**INDEX OF SHEETS** 

**DESCRIPTION** SHEET NO. TITLE SHEET SUPPLEMENTAL INDEX OF SHEETS

## STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

## PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT NO. F 2024(411), Etc

## US 80,Etc SMITH COUNTY, Etc

LIMITS: FROM VAN ZANDT C/L TO SMITH C/L

NET LENGTH OF PROJECT = 1,240,800.00 FT. = 235.00 MI.

FOR THE CONSTRUCTION OF SEAL COAT TYPE WORK CONSISTING OF ONE COURSE SURFACE TREATMENT AND PAVEMENT MARKINGS

NET LENGTH OF PROJECT = 1,262,448.00 FT. = 239.10 MI.

FOR THE CONSTRUCTION OF TRAFFIC CINTROL DEVICES CONSISTING OF THERMOPLASTIC & PROFILE PAVEMENT MARKINGS



EXCEPTIONS: 11 EQUATIONS: NONE RAILROAD CROSSINGS: 16 NOT TO SCALE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, OCTOBER 23, 2023)

F 2024 (411), Etc JOB 0095 08 021,Etc US 80,Etc SMITH.Etc

#### FINAL PLANS

| LETTING  | DATE:    |                       |  |
|----------|----------|-----------------------|--|
| DATE CO  | NTRACTO  | R BEGAN WORK:         |  |
| DATE WC  | RK WAS   | COMPLETED & ACCEPTED: |  |
| FINAL CO | NTRACT ( | COST: \$              |  |
| CONTRAC  | CTOR :   |                       |  |
| ISED     | OF       | ALOTTED DAYS:         |  |

#### FINAL AS BUILT PLANS

THE CONSTRUCTION WAS PERFORMED UNDER MY SUPERVISION IN ACCORDANCE WITH THE PLANS AND CONTRACT

| DATE: |               |  |
|-------|---------------|--|
|       |               |  |
|       |               |  |
|       | ARFA FNGINFFR |  |

\* REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH BC (1)- 21 THRU BC (12)- 21 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".



RECOMMENDED FOR LETTING: 10/5/2023

Rolando Mendez

DISTRICT DESIGN ENGINEER

APPROVED FOR LETTING:

10/6/2023

DocuSigned by: DISTRICT ENGINEER

© 2023 by Texas Department of Transportation all rights reserved

### GENERAL

| HEET NO.     | DESCRIPTION                  |
|--------------|------------------------------|
| 1            | TITLE SHEET                  |
| 2            | SUPPLEMENTAL INDEX OF SHEETS |
| 3 - 12       | LOCATION MAPS                |
| 13 - 16      | LOCATION TABLES              |
| 17, 17A-17F  | GENERAL NOTES                |
| 18, 18A, 18B | ESTIMATE AND QUANTITY SHEET  |
| 19 - 39      | QUANTITY SUMMARY SHEETS      |
|              |                              |

### TRAFFIC CONTROL PLAN

| SHEET NO.<br>40  | CONSTRUCTION SEQUENCE OF WORK  |
|--|--|
| SHEET NO.  | STANDARDS  |
| 41 - 52<br>53 - 55<br>56 - 59<br>60 - 6 <b>7</b><br>68 | BC (1)-21 THRU BC (12)-21<br>TCP(1-2)-18, TCP(1-4)-18 AND TCP(1-5)-18<br>TCP(3-1)-13, TCP(3-2)-13, TCP(3-3)-14 AND TCP(3-4)-13<br>TCP(SC-1)-22 THRU TCP(SC-8)-22<br>WZ (RS)-22 |
|  |  |

## ROADWAY DETAILS

| SHEET NO. | DESCRIPTION                     |
|-----------|---------------------------------|
| 69        | MISCELLANEOUS SURFACING DETAILS |

10/04/2023

### TRAFFIC ITEMS

| SHEET NO.          | DESCRIPTION  |
|--------------------|--|
| 70                 | PAVEMENT MARKING DETAILS   |
| SHEET NO.          | <u>STANDARDS</u>   |
| 71 - 72            | RCD(1)-22 AND RCD(2)-22  |
| 73 - 77<br>78 - 81 | PM(1)-22 THRU PM(3)-22, PM(4)-22A(MOD), PM(5)-22<br>RS(1)-23 THRU RS(4)-23 |
| 82                 | TS2(PL-1)-23   |
| 83                 | BLPM-10  |

|           | RAILROAD   |
|-----------|--|
| SHEET NO. | DESCRIPTION  |
| 84 - 100  | RAILROAD SCOPE OF WORK                                 |
| SHEET NO. | STANDARDS  |
| 101 - 102 | RAILROAD REQUIREMENTS FOR BRIDGE CONSTRUCTION PROJECTS |

### **ENVIRONMENTAL ISSUES**

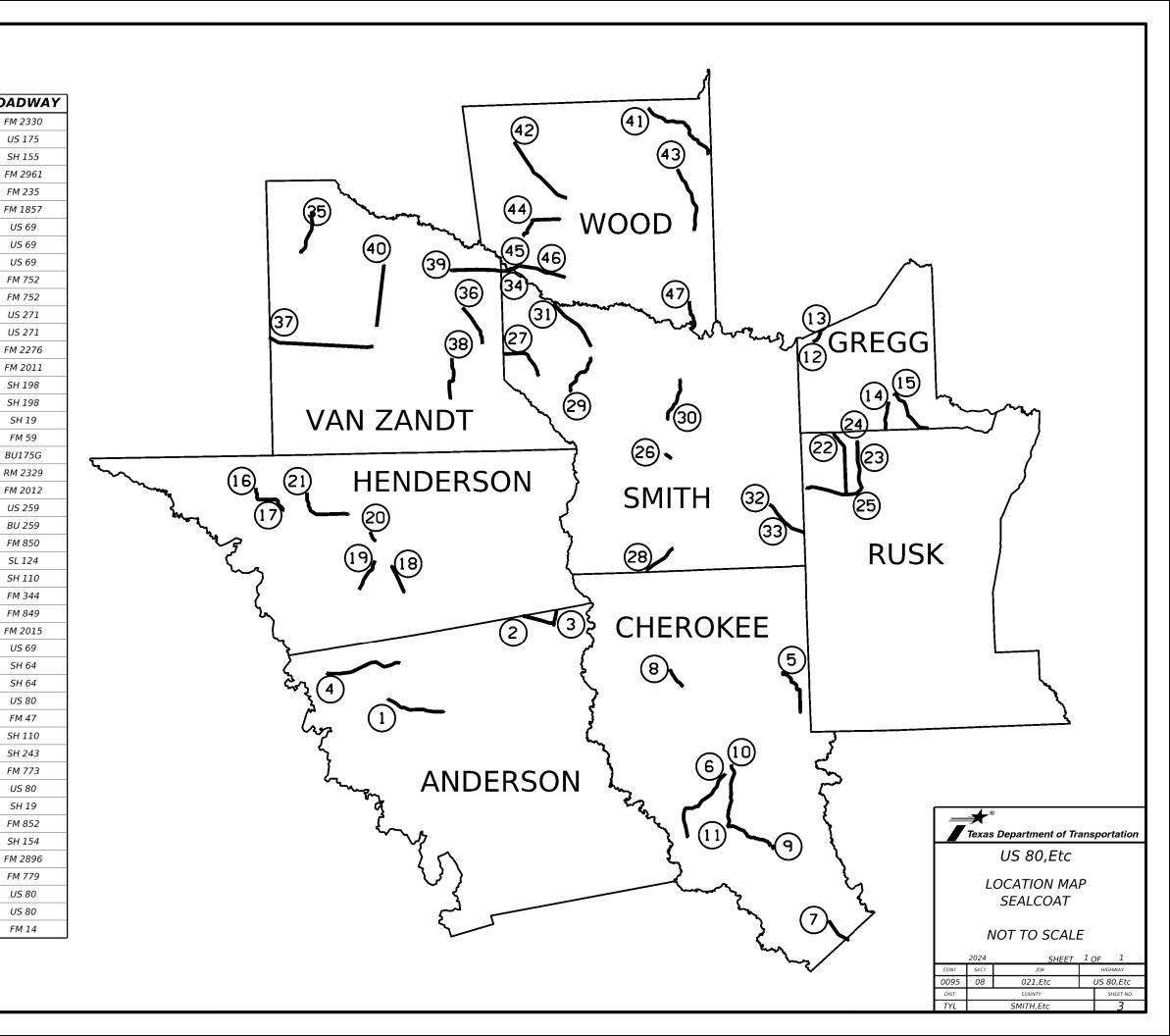
| SHEET NO.        | DESCRIPTION   |
|------------------|---|
| 103<br>104 - 105 | ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)<br>STORMWATER POLLUTION PREVENTION PLAN (SW3P) |
| SHEET NO.        | <u>STANDARDS</u>  |
| 106              | EC (1)-16   |

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

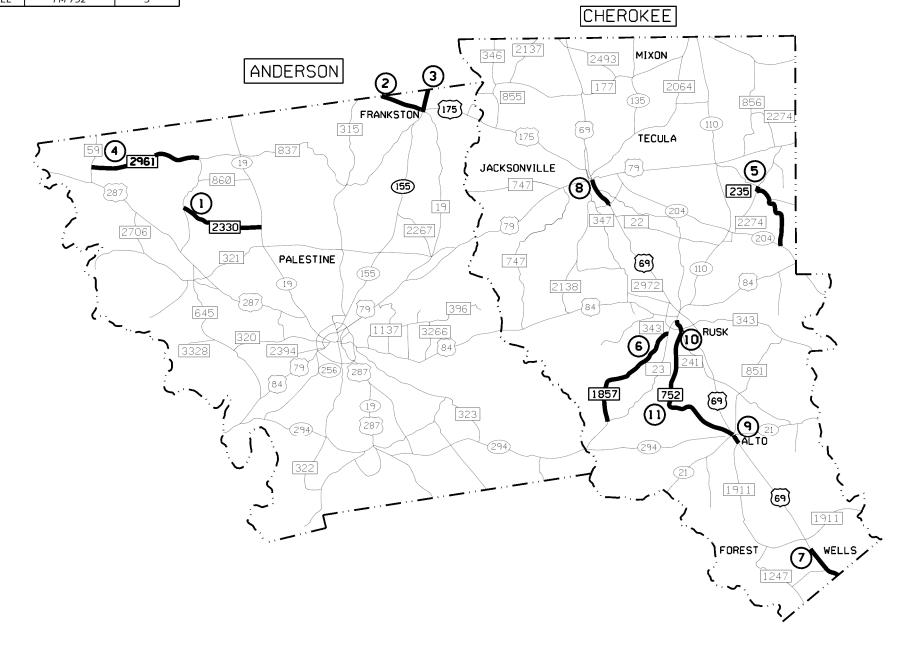


SUPPLEMENTAL **INDEX OF SHEETS** 

| 2024 SHEET 1 OF 1 |        |           |           |           |
|-------------------|--------|-----------|-----------|-----------|
| CONT              | SECT   | JOB       |           | HIGHWAY   |
| 0095              | 08     | 021,Etc   | US 80,Etc |           |
| DIST              | COUNTY |           |           | SHEET NO. |
| TYL               |        | SMITH,Etc |           | 2         |



| REF NO. | COUNTY   | ROADWAY | GRADE |
|---------|----------|---------|-------|
| 1       | ANDERSON | FM 2330 | 3     |
| 2       | ANDERSON | US 175  | 4     |
| 3       | ANDERSON | SH 155  | 4     |
| 4       | ANDERSON | FM 2961 | 3     |
| 5       | CHEROKEE | FM 235  | 3     |
| 6       | CHEROKEE | FM 1857 | 3     |
| 7       | CHEROKEE | US 69   | 4     |
| 8       | CHEROKEE | US 69   | 4     |
| 9       | CHEROKEE | US 69   | 4     |
| 10      | CHEROKEE | FM 752  | 3     |
| 11      | CHEROKEE | FM 752  | 3     |



NOTES:

ALL STOCKPILE LOCATIONS SHALL BE SIGNED WITH CONTRACTORS NAME AND PROJECT NUMBER.

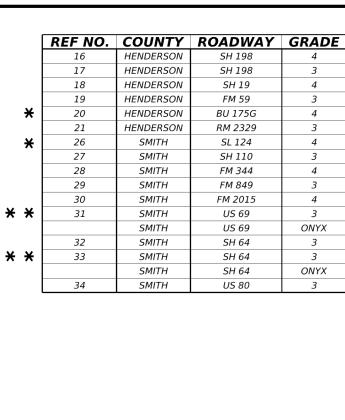
**★** DESIGNATED HIGH TRAFFIC VOLUME AREA.

## Texas Department of Transportation

US 80,Etc

LOCATION MAP SEALCOAT

| 2024 SHEET 1 OF 4 |        |                 |           |           |   |
|-------------------|--------|-----------------|-----------|-----------|---|
| CONT              | SECT   | ECT JOB HIGHWAY |           |           |   |
| 0095              | 08     | 021,Etc         | US 80,Etc |           |   |
| DIST              | COUNTY |                 |           | SHEET NO. |   |
| TYL               |        | SMITH.Etc       |           | 4         | П |



(P16)3 16 /STARRVILLE WINONA HENDERSON TYLER 26 TIZ4 CHAPELES 2010 BROWNSBORO CHANDLER 848 64 EUSTACE MURCHISON 3079 WHITEHOUSE ATHENS 2495 LEAGUEVILLE MALAKOFF TRINIDAD **19** 

SMITH

31 LINDALE

1805

NOTES:

 ${\it ALL STOCKPILE LOCATIONS SHALL BE SIGNED WITH CONTRACTORS NAME AND PROJECT NUMBER.}$ 

MAIN LANES SHOULDERS

MAIN LANES

SHOULDERS

★ DESIGNATED HIGH TRAFFIC VOLUME AREA.

\* FRICTIONAL ASPHALTIC SURFACE PRESERVATION TREATMENT TO BE USED ON OUTSIDE SHOULDERS GREATER THAN 8' IN WIDTH.

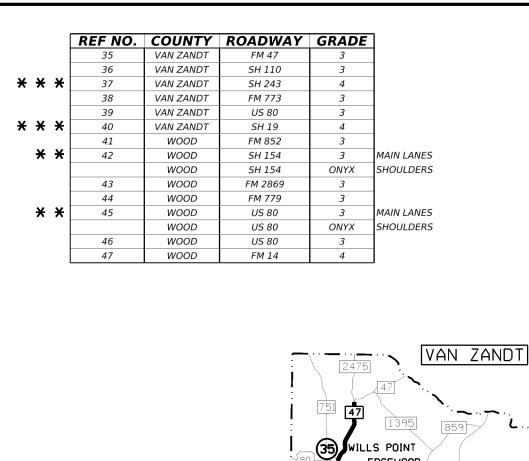
Texas Department of Transportation

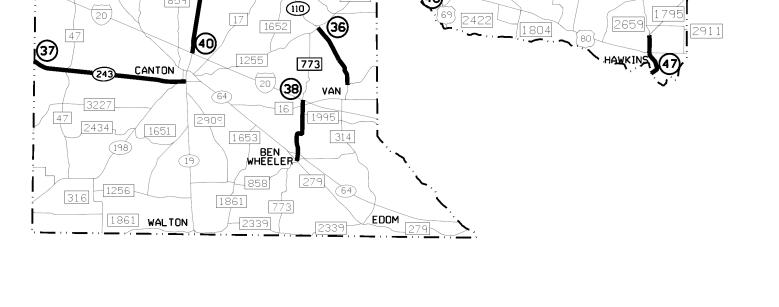
US 80,Etc

LOCATION MAP SEALCOAT

| 2024 SHEET 2 OF 4 |           |             |           |           |
|-------------------|-----------|-------------|-----------|-----------|
| CONT              | SECT      | JOB HIGHWAY |           | HIGHWAY   |
| 0095              | 08        | 021,Etc     | US 80,Etc |           |
| DIST              | COUNTY    |             |           | SHEET NO. |
| TYL               | SMITH,Etc |             |           | 5         |







WOOD

MINEOLA

WINNSBORO

312

2869

49

14

OAK GROVE

HAINESVILLE

YANTIS

ALBA

NOTES:

ALL STOCKPILE LOCATIONS SHALL BE SIGNED WITH CONTRACTORS NAME AND PROJECT NUMBER.

\* FRICTIONAL ASPHALTIC SURFACE PRESERVATION TREATMENT TO BE USED ON OUTSIDE SHOULDERS GREATER THAN 8' IN WIDTH.

\* X LANE CLOSURES WILL NOT BE ALLOWED THURSDAY THRU SUNDAY OF CANTON'S FIRST MONDAY WEEKEND.

EDGEW00D

1504

47



Texas Department of Transportation

US 80,Etc

LOCATION MAP SEALCOAT

| CONT SECT JOB HIGHWAY     |  |
|---------------------------|--|
|                           |  |
| 0095 08 021,Etc US 80,Etc |  |
| DIST COUNTY SHEET NO.     |  |
| TYL SMITH,Etc 6           |  |

GREGG

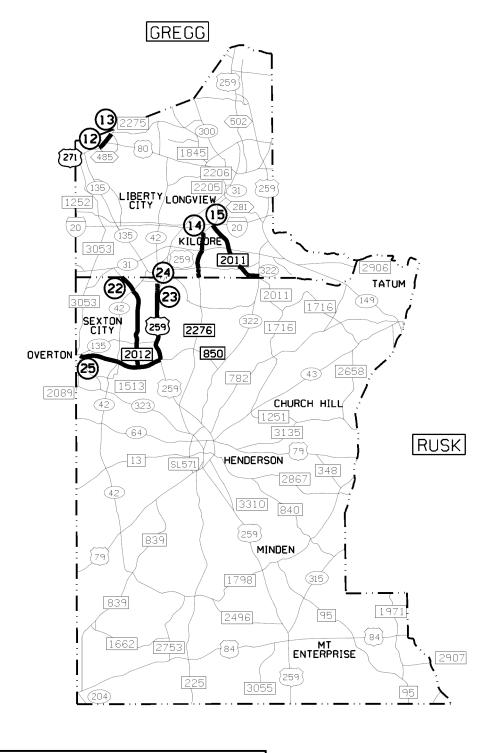
GREGG

13

REF NO. COUNTY ROADWAY GRADE

US 271

MAIN LANES SHOULDERS MAIN LANES SHOULDERS



NOTES:

ALL STOCKPILE LOCATIONS SHALL BE SIGNED WITH CONTRACTORS NAME AND PROJECT NUMBER. \* FRICTIONAL ASPHALTIC SURFACE PRESERVATION TREATMENT TO BE USED ON OUTSIDE SHOULDERS GREATER THAN 8' IN WIDTH.

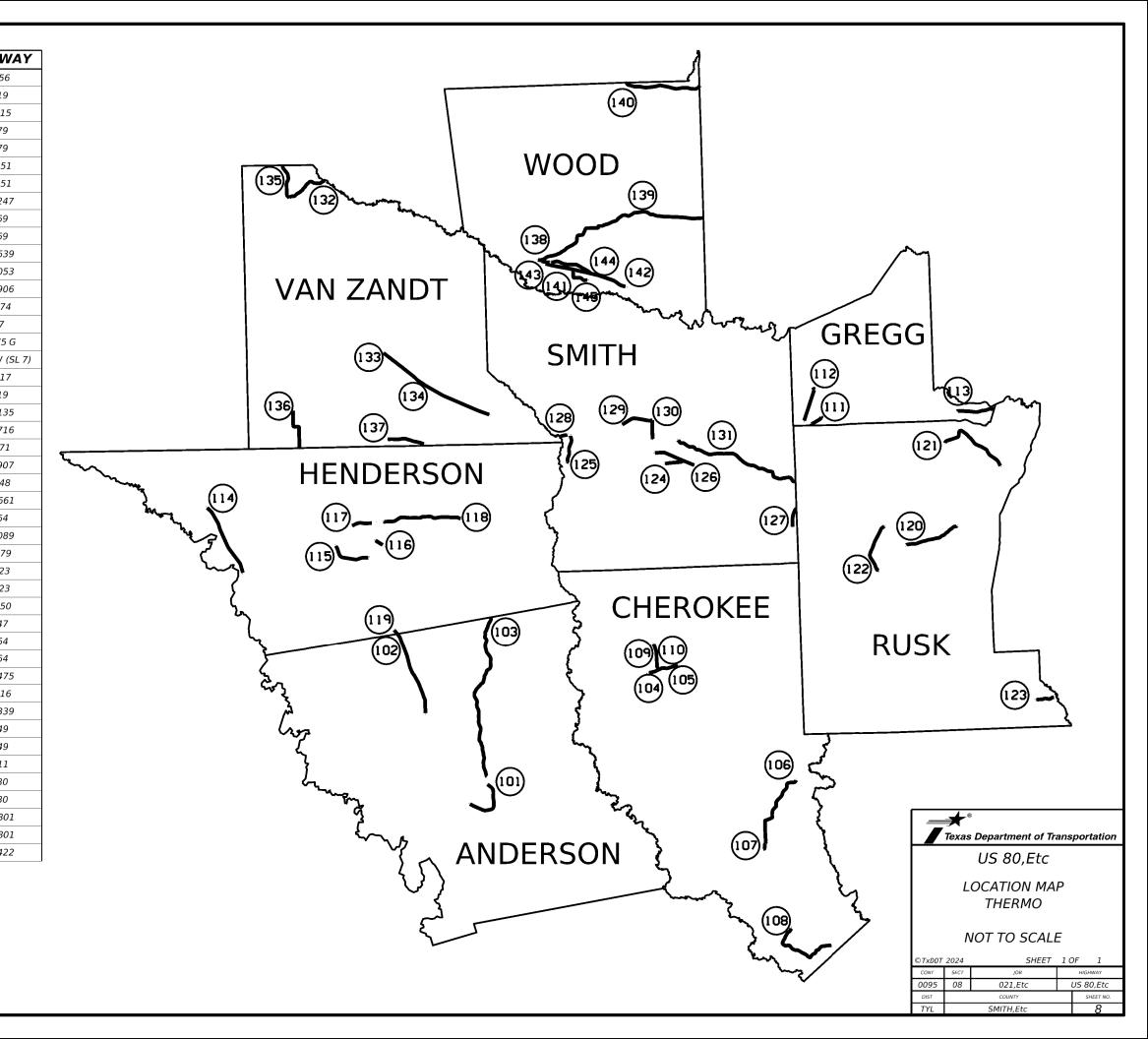


US 80,Etc

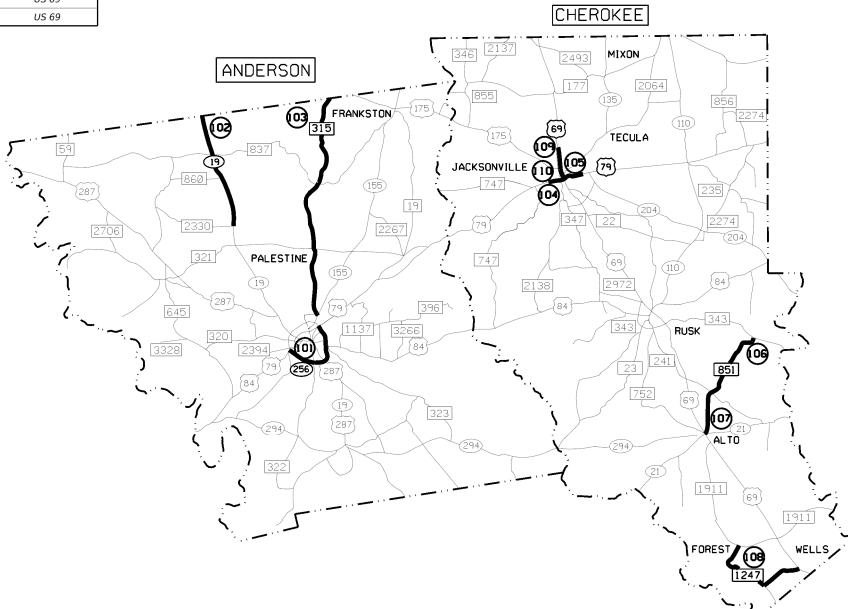
LOCATION MAP SEALCOAT

|      | 2024 | SHEET     | 4 ( | OF 4      |
|------|------|-----------|-----|-----------|
| CONT | SECT | JOB       |     | HIGHWAY   |
| 0095 | 08   | 021,Etc   |     | US 80,Etc |
| DIST |      | COUNTY    |     | SHEET NO. |
| TYL  |      | SMITH,Etc | 7   |           |

REF SECT JOB COUNTY **CTRL** ROADWAY ANDERSON 101 0520 01 000 SL 256 SH 19 **ANDERSON** 02 **ANDERSON** FM 315 103 0890 104 0206 000 CHEROKEE US 79 105 0206 CHEROKEE US 79 FM 851 CHEROKEE 1150 CHEROKEE FM 851 108 000 CHEROKEE FM 1247 109 CHEROKEE US 69 110 01 000 CHEROKEE US 69 111 FM 1639 1608 01 GREGG 112 3082 01 000 GREGG FM 3053 113 03 GREGG FM 2906 114 02 SH 274 0561 000 **HENDERSON** 115 1099 05 000 **HENDERSON** SL 7 116 01 BU 175 G 0198 HENDERSON 117 1099 05 US 175 W (SL 7) **HENDERSON** 01 FM 317 118 0889 **HENDERSON HENDERSON** SH 19 120 RUSK FM 3135 121 01 000 FM 1716 RUSK 122 3421 01 RUSK SL 571 123 007 FM 2907 01 RUSK 124 01 000 SMITH SS 248 125 2654 01 000 **SMITH** FM 2661 126 0245 **SMITH** SH 64 000 127 1608 **SMITH** FM 2089 128 0245 **SMITH** FM 279 2075 **SMITH** SL 323 130 1790 000 **SMITH** SL 323 **SMITH** FM 850 132 01 000 VAN ZANDT 133 VAN ZANDT SH 64 134 19 000 VAN ZANDT SH 64 135 01 VAN ZANDT FM 2475 136 0646 04 000 VAN ZANDT FM 316 137 2265 01 VAN ZANDT FM 2339 138 0647 01 000 FM 49 WOOD 0647 02 FM 49 139 000 WOOD 140 06 000 0083 WOOD SH 11 141 0096 000 WOOD US 80 142 0096 WOOD US 80 WOOD FM 1801 FM 1801 013 2274 FM 2422



| REF | COUNTY   | ROADWAY |  |  |
|-----|----------|---------|--|--|
| 101 | ANDERSON | SL 256  |  |  |
| 102 | ANDERSON | SH 19   |  |  |
| 103 | ANDERSON | FM 315  |  |  |
| 104 | CHEROKEE | US 79   |  |  |
| 105 | CHEROKEE | US 79   |  |  |
| 106 | CHEROKEE | FM 851  |  |  |
| 107 | CHEROKEE | FM 851  |  |  |
| 108 | CHEROKEE | FM 1247 |  |  |
| 109 | CHEROKEE | US 69   |  |  |
| 110 | CHEROKEE | US 69   |  |  |





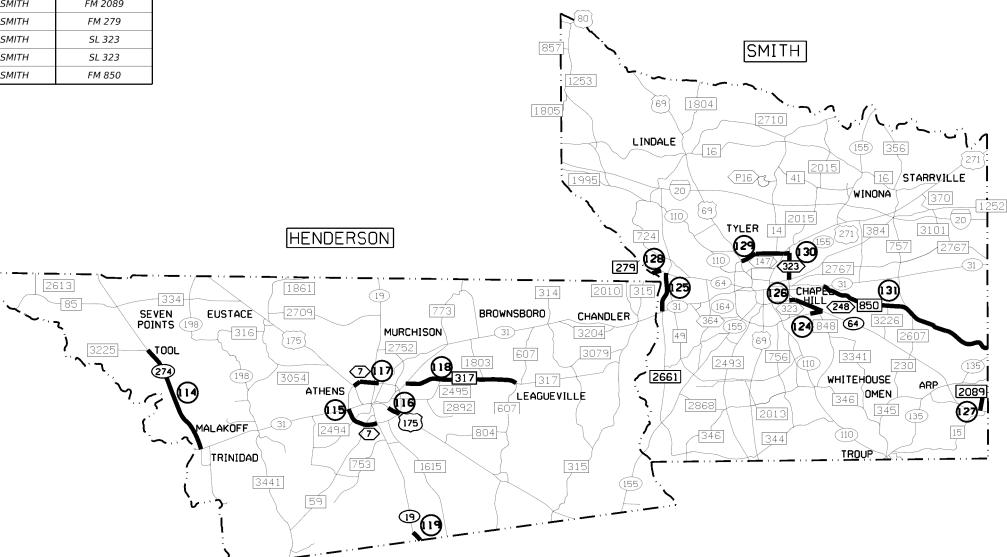
US 80,Etc

LOCATION MAP THERMO

|      | 2024 | 1 (       | OF 4    |           |
|------|------|-----------|---------|-----------|
| CONT | SECT | JOB       | HIGHWAY |           |
| 0095 | 08   | 021,Etc   |         | US 80,Etc |
| DIST |      | COUNTY    |         | SHEET NO. |
| TYL  |      | SMITH,Etc |         | 9         |

|             | H                               |
|-------------|---------------------------------|
|             | MAP                             |
|             | GEN MA                          |
|             | 117                             |
|             | 00                              |
|             | US80                            |
|             | \d0624831\US80 00 117 GEN MAP H |
|             | 3\rye.redmond\d                 |
| 8 AM        | rye                             |
| 11:11:28 AM | \txdot3\                        |
| 11:         | online\t                        |
| 33          | Μd                              |
| 9/18/2023   | txdot                           |
| 6           | C: )                            |
|             |                                 |

| REF | COUNTY    | ROADWAY         |  |  |
|-----|-----------|-----------------|--|--|
| 114 | HENDERSON | SH 274          |  |  |
| 115 | HENDERSON | SL 7            |  |  |
| 116 | HENDERSON | BU 175 G        |  |  |
| 117 | HENDERSON | US 175 W (SL 7) |  |  |
| 118 | HENDERSON | FM 317          |  |  |
| 119 | HENDERSON | SH 19           |  |  |
| 124 | SMITH     | SS 248          |  |  |
| 125 | SMITH     | FM 2661         |  |  |
| 126 | SMITH     | SH 64           |  |  |
| 127 | SMITH     | FM 2089         |  |  |
| 128 | SMITH     | FM 279          |  |  |
| 129 | SMITH     | SL 323          |  |  |
| 130 | SMITH     | SL 323          |  |  |
| 131 | SMITH     | FM 850          |  |  |





US 80,Etc

LOCATION MAP THERMO

|      | OF 4 |           |    |           |
|------|------|-----------|----|-----------|
| CONT | SECT | JOB       |    | HIGHWAY   |
| 0095 | 08   | 021,Etc   |    | US 80,Etc |
| DIST |      | COUNTY    |    | SHEET NO. |
| TYL  |      | SMITH,Etc | 10 |           |

| 115 | HENDERSON | SL 7            |  |  |  |  |
|-----|-----------|-----------------|--|--|--|--|
| 116 | HENDERSON | BU 175 G        |  |  |  |  |
| 117 | HENDERSON | US 175 W (SL 7) |  |  |  |  |
| 118 | HENDERSON | FM 317          |  |  |  |  |
| 119 | HENDERSON | SH 19           |  |  |  |  |
| 124 | SMITH     | SS 248          |  |  |  |  |
| 125 | SMITH     | FM 2661         |  |  |  |  |
| 126 | SMITH     | SH 64           |  |  |  |  |
| 127 | SMITH     | FM 2089         |  |  |  |  |
| 128 | SMITH     | FM 279          |  |  |  |  |
| 129 | SMITH     | SL 323          |  |  |  |  |
| 130 | SMITH     | SL 323          |  |  |  |  |
| 131 | SMITH     | FM 850          |  |  |  |  |
|     |           |                 |  |  |  |  |

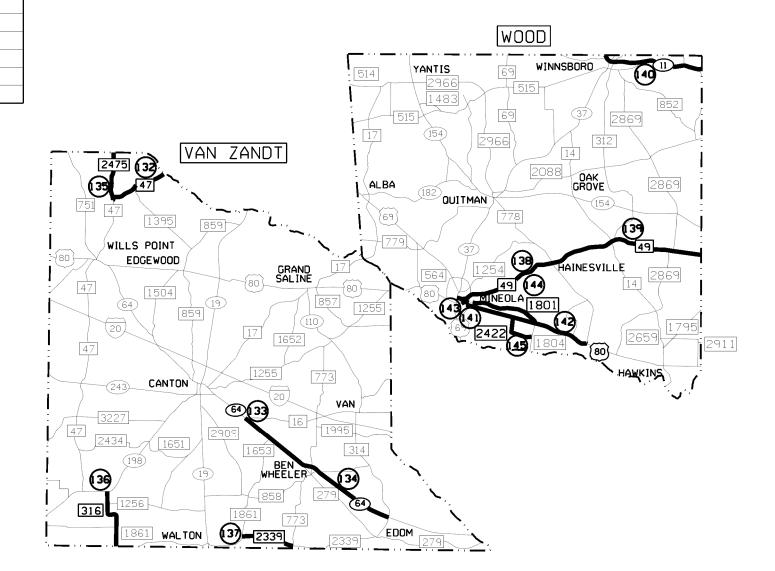
COUNTY

HENDERSON

ROADWAY

SH 274

REF

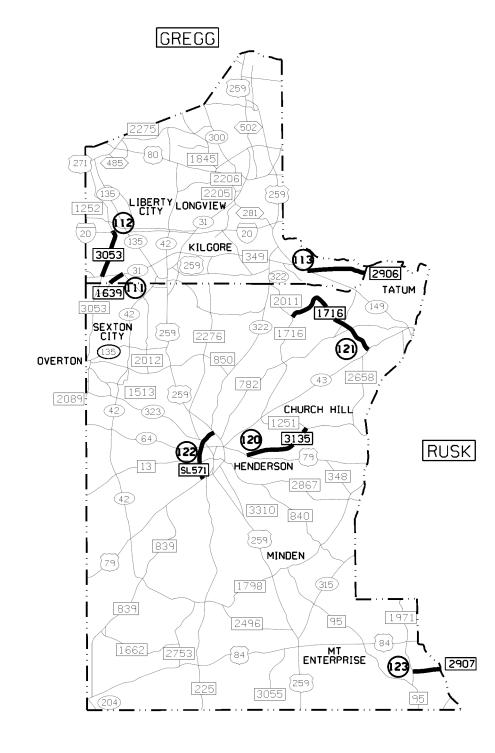




US 80,Etc

LOCATION MAP THERMO

|      | 2024 | SHEET     | 3 (     | OF 4      |
|------|------|-----------|---------|-----------|
| CONT | SECT | JOB       | HIGHWAY |           |
| 0095 | 08   | 021,Etc   |         | US 80,Etc |
| DIST |      | COUNTY    |         | SHEET NO. |
| TYL  |      | SMITH.Etc | 11      |           |





US 80,Etc

LOCATION MAP THERMO

|      | 2024 | SHEET     | 4 (       | OF 4    |  |  |
|------|------|-----------|-----------|---------|--|--|
| CONT | SECT | JOB       |           | HIGHWAY |  |  |
| 0095 | 08   | 021,Etc   | US 80,Etc |         |  |  |
| DIST |      | COUNTY    | SHEET NO. |         |  |  |
| TYL  |      | SMITH,Etc |           | 12      |  |  |

|             | ond\d0618253\US80 08 021 GEN LOCATION |
|-------------|---------------------------------------|
|             | GEN                                   |
|             | 021                                   |
|             | 08                                    |
|             | 3/0580                                |
|             | 0618253                               |
|             | dmond\a                               |
| -           | e.re                                  |
| 11:12:38 AM | ot\pw_online\txdot3\rye.redmond\d     |
| 9/18/2023   | c:\txdot\pw                           |
| ij          | úi                                    |

|            |                |           |   |       |                                     | PROJEC | T LOCATION                      | AND LE | NGTH                |   |               |                                   |   |                         |                                    |  |
|------------|----------------|-----------|---|-------|-------------------------------------|--------|---------------------------------|--------|---------------------|---|---------------|-----------------------------------|---|-------------------------|------------------------------------|--|
| REF<br>NO. | COUNTY         | ROADWAY   | CSJ                                     |       | GENERAL LOCATION OF PROJECT         | I      | RENCE MARKER<br>TION OF PROJECT |        | ORK<br>NGTH<br>FEET | SURFACE<br>AREA<br>SY                   | ADT 2021      | 24 HR TRUCK<br>PERCENTAGE<br>2021 | FUNCTIONAL<br>CLASS<br>(6) STATE FUNDED | DES<br>BICYCLE<br>ROUTE | EXCEPTIONS                         |  |
| _          |                | 514 2222  | 27.05                                   | FROM: | FM 860                              | FROM:  | 644-0.04                        |        |                     |   |               |                                   |   |                         |                                    |  |
| 1          | ANDERSON       | FM 2330   | 2195 - 02 - 007                         | TO:   | SH 19                               | TO:    | 650+1.474                       | 7.188  | 37,952              | 102,450                                 | 302           | 11.3                              | 6                                       | NO                      |                                    |  |
|            | ANDERGON       | 116.175   | 0100 03 036                             | FROM: | Henderson C/L                       | FROM:  | 682A+0.014                      | 2.744  | 10.770              | 177 120                                 | 7 200         | 16.5                              | 2                                       | NO.                     |                                    |  |
| 2          | ANDERSON       | US 175    | 0198 - 03 - 036                         | TO:   | Commerce St. (Concrete Joint)       | TO:    | 684+1.778                       | 3.744  | 19,770              | 177,428                                 | 7,309         | 16.5                              | 3                                       | NO                      |                                    |  |
| 3          | ANDERSON       | SH 155    | 0520 - 08 - 072                         | FROM: | Henderson C/L                       | FROM:  | 348+0.021                       | 1.839  | 9,710               | 64,378                                  | 13,440        | 9.2                               | 2                                       | NO                      | 007 INTERCECTION EQ 136 FROM REC   |  |
| 3          | ANDERSON       | 3H 133    | 0320 - 08 - 072                         | TO:   | 0.13 Mi S. of FM 19 (End of C&G)    | TO:    | 348+1.860                       | 1.039  | 9,710               | 04,376                                  | 13,440        | 9.2                               | 3                                       | NO                      | 987' INTERSECTION 59,136' FROM BEG |  |
| 4          | ANDERSON       | FM 2961   | 3019 - 01 - 009                         | FROM: | FM 59                               | FROM:  | 636-0.026                       | 9.415  | 49,711              | 132,977                                 | 332           | 11.4                              | 5                                       | NO                      | 274' BRIDGE 34,890' FROM BEG       |  |
| 4          | ANDERSON       | FM 2901   | 3019 - 01 - 009                         | TO:   | FM 837                              | TO:    | 644+1.506                       | 9.415  | 49,711              | 132,977                                 | 332           | 11.4                              | 9                                       | NO                      | 274 BRIDGE 34,890 FROM BEG         |  |
| 5          | CHEROKEE       | FM 235    | 1150 - 02 - 007                         | FROM: | FM 2274                             | FROM:  | 320+0.188                       | 5.995  | 31,652              | 92,426                                  | 1,277         | 6.0                               | 5                                       | YES                     |                                    |  |
| 3          | CHEKOKEE       | FM 233    | 1130 - 02 - 007                         | TO:   | SH 204                              | TO:    | 326+0.524                       | 3.993  | 31,032              | 92,420                                  | 1,277         | 0.0                               | 5                                       | TES                     |                                    |  |
| 6          | CHEROKEE       | FM 1857   | 1929 - 01 - 011                         | FROM: | FM 23 N.                            | FROM:  | 330-0.13                        | 10.315 | 54,462              | 147,895                                 | 649           | 5.4                               | 6                                       | NO                      |                                    |  |
| b          | CHEROKEE       | FM 1037   | 1929 - 01 - 011                         | TO:   | FM 23 S.                            | TO:    | 340+0.289                       | 10.313 | 34,462              | 147,693                                 | 649           | 5.4                               | b                                       | NO                      |                                    |  |
| 7          | CHEROKEE       | US 69     | 0199 - 03 - 044                         | FROM: | 0.98 Mi S. of FM 1911 (Seal Joint)  | FROM:  | 396+1.286                       | 3.436  | 18,143              | 168,697                                 | 8,036         | 12.8                              | 3                                       | NO                      |                                    |  |
| ,          | CHENOKEE       | 03 09     | 0199 - 03 - 044                         | TO:   | 0.27 Mi S. of Angelina C/L          | TO:    | 400+0.569                       | 3.430  | 20,143              | 100,097                                 | 8,030         | 12.0                              | 3                                       | NO                      |                                    |  |
| 8          | CHEROKEE       | US 69     | 0199 - 01 - 088                         | FROM: | US 79                               | FROM:  | 360+0.249                       | 2.659  | 14,037              | 117,125                                 | 20,859        | 10.1                              | 3                                       | NO                      |                                    |  |
| 0          | CHEKOKEE       | 03 09     | 0199 - 01 - 088                         | TO:   | 0.198 Mi S. of Loop 456 (PFC Joint) | TO:    | 362+0.536                       | 2.039  | 14,037              | 117,125                                 | 20,839        | 10.1                              | 3                                       | NO                      |                                    |  |
| 9          | CHEROKEE       | US 69     | 0199 - 02 - 062                         | FROM: | SH 21                               | FROM:  | 384+1.605                       | 0.588  | 588 3,103           | 2 102                                   | 22,928        | 0 152                             | 8,153 23.5                              | 23.5 3                  | NO                                 |  |
| 9          | CHEKOKEE       | 03 09     | 0199 - 02 - 002                         | TO:   | FM 1911 N.                          | TO:    | 386+0.212                       | 0.566  | 3,103               | 22,920                                  | 0,133         | 23.5                              | 3                                       | NO                      |                                    |  |
| 10         | CHEROKEE       | FM 752    | 0345 - 09 - 011                         | FROM: | SL 62                               | FROM:  | 330-0.03                        | 7.391  | 39,025              | 118,307                                 | 1,768         | 5.3                               | 6                                       | NO                      |                                    |  |
| 10         | CHEKOKEE       | FM 732    | 0343 - 09 - 011                         | TO:   | 0.585 Mi S. of CR 2310              | TO:    | 336+1.689                       | 7.391  | 39,023              | 110,507                                 | 1,708         | 5,5                               | U                                       | NO                      |                                    |  |
| 11         | CHEROKEE       | FM 752    | 2066 - 01 - 006                         | FROM: | 0.585 Mi S. of CR 2310              | FROM:  | 336+1.689                       | 6.355  | 33,556              | 94,733                                  | 403           | 5.0                               | 6                                       | NO                      |                                    |  |
| 11         | CHEKOKEE       | FM 732    | 2000 - 01 - 000                         | TO:   | SH 294                              | TO:    | 342+1.934                       | 0.333  | 33,330              | 94,733                                  | 403           | 3.0                               | U                                       | NO                      |                                    |  |
| 12         | GREGG          | US 271    | 0165 - 03 - 039                         | FROM: | US 80                               | FROM:  | 300+1.235                       | 0.867  | 4,580               | 29,045                                  | 10,167        | 19.5                              | 3                                       | NO                      |                                    |  |
| 12         | GREGG          | 03 271    | 0105 - 05 - 059                         | TO:   | Loop 485 S.                         | TO:    | 302+0.076                       | 0.807  | 4,360               | 29,043                                  | 10,107        | 19.5                              | 3                                       | NO                      |                                    |  |
| 13         | GREGG          | US 271    | 0248 - 06 - 019                         | FROM: | Loop 485 N.                         | FROM:  | 300+0.469                       | 0.803  | 4,242               | 20,218                                  | 5,955         | 19.5                              | 3                                       | NO                      |                                    |  |
| 13         | GREGG          | 03 271    | 0248 - 00 - 019                         | TO:   | US 80                               | TO:    | 300+1.235                       | 0.803  | 4,242               | 20,218                                  | 3,933         | 19.5                              | 3                                       | NO                      |                                    |  |
| 14         | GREGG          | FM 2276   | 2159 - 01 - 009                         | FROM: | FM 2087                             | FROM:  | 384-0.037                       | 3.452  | 18,227              | 59,430                                  | 1,739         | 4.4                               | 5                                       | NO                      |                                    |  |
| 14         | GNEGO          | 1141 2270 | 2139 - 01 - 009                         | TO:   | Rusk C/L                            | TO:    | 286+1.344                       | 3.432  | 10,227              | ,227 39,430                             | 59,430 1,739  | 1,739 4.4                         |   | NO                      |                                    |  |
| 15         | GREGG          | FM 2011   | 1932 - 01 - 011                         | FROM: | FM 2087                             | FROM:  | 284-0.015                       | 6.398  | 33,780              | 118,441                                 | 5,015         | 4.7                               | 5                                       | NO                      |                                    |  |
| 13         | ONLOG          | 1142011   | 1932 - 01 - 011                         | TO:   | SH 322                              | TO:    | 290+0.523                       | 0.530  | 33,700              | 110,441                                 | 110,441 5,015 | 713 4.7                           |   | 710                     |                                    |  |
| 16         | HENDERSON      | SH 198    | 1668 - 01 - 022                         | FROM: | South End of Twin Creek Bridge      | FROM:  | 302A+1.959                      | 3.677  | 19,417              | 87,078                                  | 14,427        | 11.2                              | 4                                       | NO                      |                                    |  |
| 10         | TIENDERSON     | 311 190   | 1000 - 01 - 022                         | TO:   | FM 316                              | TO:    | 306+1.477                       | 3.077  | 13,417              | 67,076                                  | 14,427        | 14,427                            | 2 4                                     | NO                      |                                    |  |
| 17         | HENDERSON      | SH 198    | 0646 - 05 - 042                         | FROM: | FM 316                              | FROM:  | 306+1.498                       | 1.905  | 10,056              | 29,683                                  | 5,152         | 13.7                              | 4                                       | NO                      |                                    |  |
| -/         | . ILIVELINGOIV | 5., 150   | 03-0 03 - 042                           | TO:   | South Payne Springs City Limits     | TO:    | 308+1.536                       | 1.505  | 10,050              | 25,005                                  | 3,132         | 15.7                              | 7                                       | ,,,,                    |                                    |  |
| 18         | HENDERSON      | SH 19     | 0108 - 04 - 042                         | FROM: | FM 1615                             | FROM:  | 312+1.915                       | 3.466  | 18,300              | 99,581                                  | 4,211         | 16.9                              | 4                                       | NO                      |                                    |  |
| 10         | . ILIVELISON   | 511 15    | 0100 04 - 042                           | TO:   | 0.341 Mi S. of CR 4613 (Seal Joint) | TO:    | 316+1.49                        | 3,400  | 10,500              | 33,301                                  | 7,211         | 10.9                              | 7                                       | ,,,,                    |                                    |  |
| 19         | HENDERSON      | FM 59     | 0458 - 01 - 027                         | FROM: | .23 Mi N. of Loop 7 (HMAC Joint)    | FROM:  | 306+0.109                       | 4.115  | 21,725              | 77,116                                  | 3,662         | 6.0                               | 5                                       | NO                      |                                    |  |
|            |                |           | 0.750 01 027                            | TO:   | 0.059 Mi N. of FM 753 (Seal Joint)  | TO:    | 310+0.049                       | 1.115  | 21,723              | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 3,002         | 0.0                               |   | 1,,,,                   |                                    |  |
| 20         | HENDERSON      | BU175G    | 0198 - 01 - 033                         | FROM: | US 175W (Loop 7)                    | FROM:  | 658+0.062                       | 1.127  | 5,951               | 54,047                                  | 6,368         | 17.7                              | 3                                       | NO                      |                                    |  |
|            |                |           | 02 033                                  | TO:   | BU 31 (At the Y)                    | TO:    | 660+0.586                       |        | -,552               |   | 2,300         |                                   |   | ļ                       |                                    |  |
| 21         | HENDERSON      | RM 2329   | 2196 - 01 - 015                         | FROM: | FM 316                              | FROM:  | 634-0.04                        | 7.091  | 37,438              | 117,164                                 | 2,699         | 7.4                               | 5                                       | NO                      |                                    |  |
|            |                |           | 111111111111111111111111111111111111111 | 10:   | US 175                              | TO:    | 640+1.138                       | 1      | 1 . , . 5 5         |   | _,,,,,        |                                   | _                                       | ļ                       |                                    |  |
| 22         | RUSK           | FM 2012   | 1933 - 02 - 016                         | FROM: | Gregg C/L                           | FROM:  | 290+0.056                       | 7.945  | 41,948              | 124,994                                 | 1,174         | 9.8                               | 5                                       | NO                      | 541' BRIDGE 26.946' FROM BEG       |  |
|            |                |           | 32 32                                   | ТО:   | FM 850                              | TO:    | 298+0.095                       | 1      | 1 -,5 .5            |   | _,_,          |                                   |   | ļ <u>.</u>              |                                    |  |
| 23         | RUSK           | US 259    | 0138 - 02 - 040                         | FROM: | BU 259                              | FROM:  | 298A+2.649                      | 5.156  | 27,224              | 222,739                                 | 12,702        | 16.1                              | 3                                       | NO                      |                                    |  |
|            |                |           |   | ТО:   | FM 850                              | TO:    | 304+1.081                       | 1      |                     |   | ,             |                                   | _                                       | 1                       |                                    |  |
| 24         | RUSK           | BU 259    | 0138 - 02 - 041                         | FROM: | BU 259 (Divided HWY)                | FROM:  | 298+0.935                       | 0.802  | 4,233               | 34,067                                  | 7,660         | 5.3                               | 3                                       | NO                      |                                    |  |
|            |                |           | 372                                     | TO:   | US 259                              | TO:    | 298+1.751                       |        | .,                  | ,,                                      | 1,,,,,,,,     |                                   | _                                       | 1                       |                                    |  |

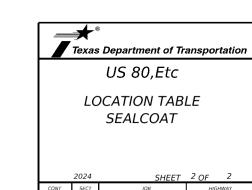
NOTE: SURFACE AREA DOES NOT INCLUDE ITEM 3028 FRICTIONAL ASPH SURF PRESERV TRTMT.



|                | LOCA   |
|----------------|--|
|                | GEN  |
|                | 021  |
|                | 08   |
|                | txdot3\rye.redmond\d0618253\US80 08 021 GEN LOCA |
| 11:12:40 AM    | online\txdot3\rve.re                             |
| 47E: 9/18/2023 | C:\txdot\pw online\t                             |
| 4 <i>TE</i> :  | .E:  |

|            |           |         |             |       |              |   | PROJECT      | LOCATION                      | AND LE | NGTH                |                       |          |                                   |   |                         |                                       |
|------------|-----------|---------|-------------|-------|--------------|---|--------------|-------------------------------|--------|---------------------|-----------------------|----------|-----------------------------------|---|-------------------------|---------------------------------------|
| REF<br>NO. | COUNTY    | ROADWAY | CSJ         |       |              | GENERAL LOCATION OF PROJECT             |              | RENCE MARKER<br>ON OF PROJECT | 1      | ORK<br>NGTH<br>FEET | SURFACE<br>AREA<br>SY | ADT 2021 | 24 HR TRUCK<br>PERCENTAGE<br>2021 | FUNCTIONAL<br>CLASS<br>(6) STATE FUNDED | DES<br>BICYCLE<br>ROUTE | EXCEPTIONS                            |
| 25         | RUSK      | FM 850  | 1163 - 02 - | - 033 | FROM:        | US 259                                  | FROM:        | 696+0.416                     | 7.071  | 37,335              | 116,127               | 3,467    | 12.2                              | 5                                       | NO                      |                                       |
|            | NOSK      | 714 050 | 1103 02     | 033   | TO:          | SH 135                                  | TO:          | 702+1.159                     | 7.071  | 37,333              | 110,127               | 3,107    | 12.2                              | <u> </u>                                | ,,,,                    |                                       |
| 26         | SMITH     | SL 124  | 0245 - 16 - | - 008 | FROM:        | SL 323                                  | FROM:        | 292+0.498                     | 0.971  | 5,127               | 23,151                | 7,280    | 7.1                               | 4                                       | NO                      |                                       |
|            |           |         |             |       | TO:          | SH 64                                   | TO:          | 292+1.481                     |        |                     |                       | ,,       | , · <del>-</del>                  | ,                                       | 1                       |                                       |
| 27         | SMITH     | SH 110  | 0505 - 02 - | 048   | FROM:        | Van Zandt C/L                           | FROM:        | 284+0.373                     | 5.823  | 30,747              | 91,601                | 3,588    | 34.5                              | 5                                       | NO                      |                                       |
|            |           |         |             |       | TO:          | IH 20                                   | TO:          | 290+1.837                     | 1      | 1                   | ,                     | -,       |                                   |   |                         |                                       |
| 28         | SMITH     | FM 344  | 0927 - 01 - | 034   | FROM:        | 0.133 Mi W. of US 69 (Pavement Joint)   | FROM:        | 676+0.215                     | 4.338  | 22,905              | 74,991                | 6,405    | 4.7                               | 5                                       | NO                      |                                       |
|            |           |         | ļ           |       | TO:          | FM 756 (Pavement Joint)                 | TO:          | 680+0.503                     |        | <u> </u>            |                       | ·        |                                   |   |                         |                                       |
| 29         | SMITH     | FM 849  | 0429 - 05 - | - 003 | FROM:        | FM 16                                   | FROM:        | 280-0.028                     | 5.293  | 27,947              | 98,472                | 5,592    | 5.0                               | 5                                       | NO                      | 323' BRIDGE 14,304' FROM BEG / 405'   |
|            |           |         |             |       | TO:          | SH 110                                  | TO:          | 284+1.281                     |        | -                   |                       |          |                                   |   |                         | BRIDGE 22,312' FROM BEG               |
| 30         | SMITH     | FM 2015 | 1934 - 02 - | 009   | FROM:        | Sand Flat Rd. (CR 4322)                 | FROM:        | 282+0.683                     | 5.332  | 28,152              | 105,820               | 5,500    | 4.9                               | 5                                       | NO                      |                                       |
|            |           |         |             |       | TO:          | US 271                                  | TO:          | 286+1.843                     |        | -                   |                       |          |                                   |   |                         |                                       |
| 31         | SMITH     | US 69   | 0190 - 04 - | 041   | FROM:        | Wood C/L                                | FROM:        | 308+0.949                     | 6.989  | 36,899              | 324,341               | 14,855   | 3.2                               | 3                                       | NO                      | 250' BRIDGE NB LN 21,883' FROM BEG    |
|            |           |         |             |       | TO:          | FM 1804                                 | TO:          | 316+0.931                     |        |                     |                       |          |                                   |   |                         |                                       |
| 32         | SMITH     | SH 64   | 0245 - 06 - | - 090 | FROM:        | 0.4 miles East of CR 246                | FROM:        | 700+0.871                     | 0.929  | 4,903               | 21,103                | 6,734    | 12.8                              | 4                                       | NO                      |                                       |
|            |           |         |             | + +   | TO:          | 1.3 miles East of CR 246                | TO:          | 702+0.175                     |        |                     |                       |          |                                   |   |                         |                                       |
| 33         | SMITH     | SH 64   | 0245 - 07 - | 031   | FROM:<br>TO: | 1.3 miles East of CR 246                | FROM:<br>TO: | 702+0.177                     | 4.675  | 24,683              | 43,987                | 6,734    | 13.1                              | 4                                       | NO                      | 240' BRIDGE 1,328' FROM BEG           |
|            |           |         | <b> </b>    |       | FROM:        | Rusk C/L                                | FROM:        | 706+1.028                     | +      | +                   |                       |          |                                   |   | 1                       |                                       |
| 34         | SMITH     | US 80   | 0095 - 08 - | - 021 | TO:          | Van Zandt C/L<br>Wood C/L               | TO:          | 730+0.030<br>730+1.408        | 1.481  | 7,817               | 58,348                | 5,981    | 17.3                              | 3                                       | NO                      |                                       |
|            |           |         |             |       | FROM:        | FM 2475                                 | FROM:        | 266+1.080                     | +      |                     |                       |          |                                   |   | 1                       |                                       |
| 35         | VAN ZANDT | FM 47   | 0646 - 01 - | 036   | TO:          | 0.27 Mi S. of FM 751 (Brick Road Joint) | TO:          | 272+0.860                     | 5.488  | 28,979              | 90,401                | 9,902    | 8.5                               | 5                                       | NO                      |                                       |
|            |           |         |             |       | FROM:        | FM 1255 S.                              | FROM:        | 274+1.37                      |        |                     |                       |          |                                   |   |                         |                                       |
| 36         | VAN ZANDT | SH 110  | 0505 - 01 - | 049   | TO:          | FM 1805                                 | TO:          | 280+0.564                     | 5.184  | 27,372              | 81,259                | 2,139    | 34.7                              | 5                                       | NO                      |                                       |
|            |           |         |             |       | FROM:        | Kaufman C/L                             | FROM:        | 630+0.164                     | +      | 1                   |                       |          |                                   |   |                         |                                       |
| 37         | VAN ZANDT | SH 243  | 0522 - 02 - | 039   | TO:          | SH 19 (Concrete Joint)                  | TO:          | 642+0.638                     | 12.732 | 67,225              | 239,795               | 12,528   | 11.8                              | 4                                       | NO                      |                                       |
|            |           |         |             |       | FROM:        | IH 20                                   | FROM:        | 286+1.941                     |        | 1                   |                       |          |                                   |   |                         |                                       |
| 38         | VAN ZANDT | FM 773  | 1099 - 04 - | - 013 | TO:          | FM 279                                  | TO:          | 292+1.376                     | 5.455  | 28,801              | 86,527                | 1,765    | 9.7                               | 5                                       | NO                      |                                       |
|            |           |         |             |       | FROM:        | FM 857                                  | FROM:        | 722+0.388                     |        |                     |                       |          |                                   |   |                         | 320' BRIDGE WB LN 26,751' FROM BEG /  |
| 39         | VAN ZANDT | US 80   | 0095 - 07 - | 061   | TO:          | Smith C/L                               | TO:          | 730+0.000                     | 6.158  | 32,513              | 241,893               | 4,972    | 20.1                              | 3                                       | NO                      | 346' BRIDGE WB LN 27,445' FROM BEG    |
|            |           |         |             |       | FROM:        | US 80                                   | FROM:        | 276+0.707                     |        |                     |                       |          |                                   |   |                         |                                       |
| 40         | VAN ZANDT | SH 19   | 0108 - 01 - | - 031 | TO:          | IH 20 (Concrete Joint/Overpass)         | TO:          | 284+0.127                     | 7.514  | 39,673              | 205,621               | 8,024    | 10.0                              | 4                                       | NO                      |                                       |
|            |           | 514.050 |             | 222   | FROM:        | FM 515                                  | FROM:        | 584A-0.044                    |        |                     | 170.050               |          |                                   | _                                       |                         |                                       |
| 41         | WOOD      | FM 852  | 0767 - 04 - | - 008 | TO:          | FM 2088                                 | TO:          | 592+2.124                     | 10.319 | 54,484              | 172,959               | 4,141    | 14.1                              | 5                                       | NO                      |                                       |
| 42         | WOOD.     | CH 154  | 0.401 03    | 025   | FROM:        | FM 515 (South Side of Intersection)     | FROM:        | 686+0.656                     | 0.544  | 50.303              | 100 771               | 6.050    | 0.0                               | 4                                       | 110                     | 2,760' BRIDGE 16,015' FROM BEG / 595' |
| 42         | WOOD      | SH 154  | 0401 - 02 - | - 035 | TO:          | 550' West of SH-37 (Smart St.)          | TO:          | 696+0.34                      | 9.544  | 50,392              | 190,771               | 6,958    | 9.9                               | 4                                       | NO                      | BRIDGE 45,839' FROM BEG               |
| 43         | WOOD      | EM 2006 | 2050 02     | 07.2  | FROM:        | FM 2088                                 | FROM:        | 260+0.216                     | 0.147  | 42.016              | 122.502               | 1 700    | 12.2                              | _                                       | NO                      |                                       |
| 43         | WOOD      | FM 2896 | 2958 - 02 - | - 012 | TO:          | FM 49                                   | TO:          | 268+0.296                     | 8.147  | 43,016              | 122,593               | 1,790    | 13.2                              | 5                                       | NO                      |                                       |
| 44         | WOOD      | FM 779  | 1111 - 01 - | 015   | FROM:        | US 69                                   | FROM:        | 665+1.986                     | 5.892  | 31,112              | 90,154                | 1,111    | 7.2                               | 5                                       | NO                      |                                       |
| 44         | WOOD      | FM 779  | 1111 - 01 - | 013   | TO:          | SH 37                                   | TO:          | 670+1.676                     | 5.092  | 31,112              | 90,134                | 1,111    | 7.2                               | 5                                       | ///                     |                                       |
| 45         | WOOD      | US 80   | 0095 - 09 - | 040   | FROM:        | Smith C/L                               | FROM:        | 730+1.408                     | 5.003  | 26,417              | 216,905               | 7,827    | 15.7                              | 3                                       | YES                     | 100' BRIDGE EB LN 5,977' FROM BEG     |
| 45         | WOOD      | 03 80   | 0093 - 09 - | 040   | TO:          |   | TO:          | 736+1.105                     | 5.003  | 20,41/              | 210,903               | 7,027    | 13.7                              | 3                                       | 163                     | 100 BRIDGE LB EN 3,377 FROM BEG       |
| 46         | WOOD      | US 80   | 0096 - 01 - | 047   | FROM:        |   | FROM:        | 736+1.126                     | 0.984  | 5,196               | 46,235                | 7,537    | 20.7                              | 3                                       | NO                      |                                       |
| 70         | VVOOD     | 03 80   | 0090 - 01   | 047   | TO:          | · · · · · · · · · · · · · · · · · · ·   | TO:          | 738+0.180                     | 0.304  | 3,130               | 70,233                | 1,551    | 20.7                              | ,                                       | ,,,,                    |                                       |
| 47         | WOOD      | FM 14   | 0492 - 03 - | 041   | FROM:        |   | FROM:        | 276+1.289                     | 3.953  | 20,874              | 127,761               | 5,981    | 17.3                              | 5                                       | NO                      |                                       |
| -1/        |           | 71714   | 3432 - 03   | 0.41  | TO:          | Smith C/L                               | TO:          | 280+1.197                     | 3.555  | 20,074              | 127,701               | 3,301    | 17.5                              | <u> </u>                                | ,,,,                    |                                       |

NOTE: SURFACE AREA DOES NOT INCLUDE ITEM 3028 FRICTIONAL ASPH SURF PRESERV TRTMT.

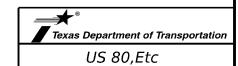


021,Etc

US 80,Etc

| REF   | COUNTY    | ROADWAY        |        | CSJ         |     |              | GENERAL LOCATION OF PROJECT                          | REFER        | RENCE MARKER           |        | ORK<br>IGTH | FUNCTIONAL<br>CLASS | DEMARKS |
|-------|-----------|----------------|--------|-------------|-----|--------------|--|--------------|------------------------|--------|-------------|---------------------|---------|
| NO.   |           |                |        | •           |     |              | •  |              | ION OF PROJECT         | MILE   | IGTH FEET   | (6) STATE FUNDED    | REMARKS |
| 101   | 44DEDCO44 | 64.356         | 0500   | 0.1         |     | FROM:        | US 79 North  | FROM:        | 658+0.375              |        |             | _                   |         |
| 101   | ANDERSON  | SL 256         | 0520 - | 01 -        |     | TO:          | US 79 South  | TO:          | 664+0.573              | 6.021  | 31,791      | 3                   |         |
| 102   | ANDERCON  | CU 10          | 07.00  | 06          |     | FROM:        | Henderson C/L  | FROM:        | 322+0.86               | 10.000 | 52.040      | 4                   |         |
| 102   | ANDERSON  | SH 19          | 0108 - | 06 -        |     | TO:          | FM 2330  | TO:          | 334+0.028              | 10.009 | 52,848      | 4                   |         |
| 103   | ANDERSON  | FM 315         | 0890 - | 02 -        |     | FROM:        | Henderson C/L  | FROM:        | 318+0.000              | 20.148 | 106,381     | 5                   |         |
| 103   | ANDERSON  | FIN 313        | 0890 - | 02 -        |     | TO:          | SH 155   | TO:          | 338+0.314              | 20.146 | 100,361     | 9                   |         |
| 104   | CHEROKEE  | US 79          | 0206 - | 03 -        |     | FROM:        | Jacksonville City Limits West                        | FROM:        | 372+1.255              | 1.199  | 6,331       | 3                   |         |
| 104   | CHENOREE  | 0373           | 0200   | 05          |     | TO:          | US 69  | TO:          | 374+0.495              | 1.133  | 0,551       | 3                   |         |
| 105   | CHEROKEE  | US 79          | 0206 - | 04 -        |     | FROM:        | US 69  | FROM:        | 370+0.714              | 2.333  | 12,318      | 3                   |         |
| 103   | CHEROKEE  | 0373           | 0200   | <b>U</b> -1 |     | TO:          | SH 204   | TO:          | 372+1.253              | 2.555  | 12,310      | <u> </u>            |         |
| 106   | CHEROKEE  | FM 851         | 1150 - | 04 -        | 012 | FROM:        | FM 343   | FROM:        | 330-0.038              | 9.402  | 49,643      | 6                   |         |
| 100   | CHEROREE  | 777 032        | 1130   |             | 012 | ТО:          | CNTY RD 2429   | TO:          | 338+1.413              | 37.102 | 1370 13     | Ţ.                  |         |
| 107   | CHEROKEE  | FM 851         | 1150 - | 04 -        |     | FROM:        | CNTY RD 2429   | FROM:        | 338+1.413              | 0.800  | 4,224       | 5                   |         |
|       |           |                |        |             |     | TO:          | US 69  | TO:          | 340+0.219              | 1      | .,          | -                   |         |
| 108   | CHEROKEE  | FM 1247        | 1387 - | 02 -        |     | FROM:        | FM 1911  | FROM:        | 694-0.08               | 9.084  | 47,964      | 5                   |         |
|       |           |                |        |             |     | ТО:          | US 69  | ТО:          | 702+1.182              |        | ,-          | _                   |         |
| 109   | CHEROKEE  | US 69          | 0191 - | 02 -        |     | FROM:        | FM 347   | FROM:        | 356+1.112              | 2.519  | 13,300      | 3                   |         |
|       |           |                |        |             |     | TO:          | Lincoln St.  | TO:          | 358+1.618              |        |             |                     |         |
| 110   | CHEROKEE  | US 69          | 0199 - | 01 -        |     | FROM:        | Lincoln St.  | FROM:        | 358+1.618              | 0.597  | 3,152       | 3                   |         |
|       |           |                |        |             |     | TO:          | US 79  | TO:          | 360+0.248              |        |             |                     |         |
| 111   | GREGG     | FM 1639        | 1608 - | 01 -        | 005 | FROM:        | SH 31  | FROM:        | 288-0.068              | 1.720  | 9,082       | 6                   |         |
|       |           |                |        |             |     | TO:          | Rusk C/L   | TO:          | 288+1.628              |        |             |                     |         |
| 112   | GREGG     | FM 3053        | 3082 - | 01 -        |     | FROM:        | IH 20  | FROM:        | 286+0.036<br>290+0.134 | 4.163  | 21,981      | 5                   |         |
|       |           |                |        |             |     | TO:<br>FROM: | SH 31<br>SH 149                                      | TO:<br>FROM: | 712-0.025              |        |             |                     |         |
| 113   | GREGG     | FM 2906        | 2954 - | 03 -        |     | TO:          | End Of State Maintenance                             | TO:          | 712-0.023<br>716+0.484 | 4.416  | 23,316      | 5                   |         |
|       |           |                |        |             |     | FROM:        | 0.750 Miles South Of FM 3225                         | FROM:        | 302+1.977              | +      | $\vdash$    |                     |         |
| 114   | HENDERSON | SH 274         | 0561 - | 02 -        |     | TO:          | SH 31  | TO:          | 310+2.800              | 8.789  | 46,406      | 4                   |         |
|       |           |                |        |             |     | FROM:        | Conc. Paving Begins South Of SH 31 West              | FROM:        | 642+2.013              |        |             |                     |         |
| 115   | HENDERSON | SL 7           | 1099 - | 05 -        |     | TO:          | SH 19  | TO:          | 644-0.449              | 4.670  | 24,658      | 4                   |         |
|       |           |                |        |             |     | FROM:        | 1.6 Miles SE Of BS 19 (Begin Of Grass Med)           | FROM:        | 658-0.062              | +      |             |                     |         |
| 116   | HENDERSON | BU 175 G       | 0198 - | 01 -        |     | TO:          | US 175 East  | TO:          | 660+0.586              | 0.988  | 5,217       | 3                   |         |
|       |           |                |        |             |     | FROM:        | US 175W (Concrete Joint)                             | FROM:        | 658+1.319              |        |             |                     |         |
| 117   | HENDERSON | US 175 W (SL 7 | 1099 - | 05 -        |     | TO:          | 0.550 mi west of FM 1616 (RR Overpass)               | TO:          | 660A+0.893             | 2.389  | 12,614      | 3                   |         |
|       |           |                |        |             |     | FROM:        | SH 31  | FROM:        | 646+0.058              |        |             |                     |         |
| 118   | HENDERSON | FM 317         | 0889 - | 01 -        |     | то:          | FM 607   | то:          | 654+1.269              | 9.264  | 48,914      | 5                   |         |
| 7.7.6 |           | a              | 0165   | 25          |     | FROM:        | 3,150 FT N OF ANDERSON C/L                           | FROM:        | 322+0.262              | 0      | 25          | ,                   |         |
| 119   | HENDERSON | SH 19          | 0108 - | 05 -        |     | TO:          | ANDERSON C/L   | TO:          | 322+0.859              | 0.615  | 3,247       | 4                   |         |
| 120   | DUCK      | EM 2125        | 2220   | 01          |     | FROM:        | US 79  | FROM:        | 706-0.066              | 6.535  | 24.452      | _                   |         |
| 120   | RUSK      | FM 3135        | 3239 - | 01 -        |     | TO:          | FM 1251  | TO:          | 712+0.535              | 6.525  | 34,452      | 5                   |         |
| 121   | DUCK      | FM 1716        | 1040   | 01          |     | FROM:        | FM 2011  | FROM:        | 716+1.976              | 0.003  | 47.531      | -                   |         |
| 121   | RUSK      | FM 1716        | 1940 - | 01 -        |     | TO:          | SH 43  | TO:          | 726+0.893              | 9.002  | 47,531      | 5                   |         |
| 122   | RUSK      | SL 571         | 3421 - | 01          |     | FROM:        | US 79  | FROM:        | 698-0.032              | 5.879  | 31,041      | 4                   |         |
| 122   | NOON      | 3L 3/1         | 3421 - | 01 -        |     | TO:          | US 259   | TO:          | 702+2.211              | 5.679  | 31,041      | 4                   |         |
| 123   | RUSK      | FM 2907        | 2955 - | 01          | 007 | FROM:        | FM 1971  | FROM:        | 722-0.025              | 2.156  | 11,384      | 6                   |         |
| 123   | NUON      | 1 M 2907       | 2935 - | 01 -        | 007 | TO:          | End Of State Maintenance                             | TO:          | 722+2.242              | 2.150  | 11,304      | U                   |         |
| 124   | SMITH     | SS 248         | 2558 - | 01          |     | FROM:        | 0.220 MI E OF Old Omen Rd (The Woods Baptist Church) | FROM:        | 676+1.618              | 2.168  | 11,447      | 4                   |         |
| 124   | SIVITI    | 33 240         | 2330 - | 01 -        |     | TO:          | SH 64  | TO:          | 678+1.604              | 2,100  | 11,44/      | 4                   |         |

NOTE: ACTUAL BEGIN/END OF PROFILE MARKINGS MAY VARY DUE TO EXCEPTIONS FOR LEFT TURN LANES OR 45 MPH OR BELOW SPEED ZONES

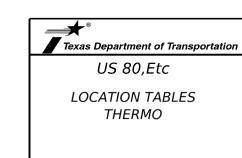


LOCATION TABLES THERMO

| © TxD0T | 2024         | SHEET   | 1 OF    | OF 2      |  |  |
|---------|--------------|---------|---------|-----------|--|--|
| CONT    | SECT         | JOB     | HIGHWAY |           |  |  |
| 0095    | 08           | 021,Etc | US 8    | 30,Etc    |  |  |
| DIST    |              | COUNTY  |         | SHEET NO. |  |  |
| TYI     | YI SMITH Etc |         |         | 15        |  |  |

|            |           |          | 1           |     |              |                                |       |                              |        |                | FUNCTIONAL                |         |
|------------|-----------|----------|-------------|-----|--------------|--------------------------------|-------|------------------------------|--------|----------------|---------------------------|---------|
| REF<br>NO. | COUNTY    | ROADWAY  | CSJ         |     |              | GENERAL LOCATION OF PROJECT    |       | ENCE MARKER<br>ON OF PROJECT | MILE   | LENGTH<br>FEET | CLASS<br>(6) STATE FUNDED | REMARKS |
| 125        | SMITH     | FM 2661  | 2654 - 01   |     | FROM:        | SH 64                          | FROM: | 290-0.035                    | 3.197  | 16,880         | 5                         |         |
| 123        | SMITT     | 114 2001 | 2034 - 01   |     | TO:          | SH 31                          | TO:   | 292+1.107                    | 3.197  | 10,000         | 3                         |         |
| 126        | SMITH     | SH 64    | 0245 - 06   | _   | FROM:        | SL 323                         | FROM: | 686+1.456                    | 4.892  | 25,830         | 3                         |         |
| 120        | 31-11111  | 3/1 04   | 0243 00     |     | TO:          | CR 220                         | TO:   | 692+0.458                    | 4.032  | 23,030         |                           |         |
| 127        | SMITH     | FM 2089  | 1608 - 04   | 005 | FROM:        | Rusk Co. Line                  | FROM: | 298+0.575                    | 2.236  | 11,806         | 6                         |         |
|            |           |          | 1000        |     | TO:          | SH 64                          | TO:   | 302+0.270                    |        |                |                           |         |
| 128        | SMITH     | FM 279   | 0245 - 09   |     | FROM:        | Van Zandt Co. Line             | FROM: | 666+2.661                    | 0.991  | 5,232          | 5                         |         |
|            |           |          |             |     | ТО:          | SH 64                          | TO:   | 668+0.849                    |        |                |                           |         |
| 129        | SMITH     | SL 323   | 2075 - 01   |     | FROM:        | Point North Drive              | FROM: | 688+1.907                    | 3.745  | 19,774         | 3                         |         |
|            |           |          |             |     | то:          | SL 323 Extension               | ТО:   | 692+1.580                    |        | -              |                           |         |
| 130        | SMITH     | SL 323   | 1790 - 02   |     | FROM:        | SL 323 Extension               | FROM: | 674+0.559                    | 2.170  | 11,458         | 3                         |         |
|            |           |          |             |     | TO:          | Commerce St.                   | TO:   | 676+0.779                    |        |                |                           |         |
| 131        | SMITH     | FM 850   | 1163 - 01 - |     | FROM:        | SH 31                          | FROM: | 679-0.095                    | 15.704 | 82,917         | 5                         |         |
|            |           |          |             |     | TO:          | Rusk C/L                       | TO:   | 694+0.337                    |        |                |                           |         |
| 132        | VAN ZANDT | FM 47    | 0646 - 01 - | -   | FROM:        | Rains C/L                      | FROM: | 260+1.064                    | 5.095  | 26,902         | 5                         |         |
|            |           |          |             |     | TO:          | FM 2475                        | TO:   | 266+1.088                    |        |                |                           |         |
| 133        | VAN ZANDT | SH 64    | 0245 - 02   |     | FROM:        | FM 16                          | FROM: | 650+1.602                    | 5.954  | 31,437         | 4                         |         |
|            |           |          |             |     | TO:<br>FROM: | 0.27 MI E OF CR 4412           | TO:   | 656+1.693<br>656+1.693       |        |                |                           |         |
| 134        | VAN ZANDT | SH 64    | 0245 - 19   | -   | TO:          | 0.27 MI E OF CR 4412<br>FM 314 | FROM: | 664+2.009                    | 8.485  | 44,801         | 4                         |         |
|            |           |          |             |     | FROM:        | Hunt C/L                       | FROM: | 258+0.051                    |        |                |                           |         |
| 135        | VAN ZANDT | FM 2475  | 3263 - 01 - | -   | TO:          | FM 47                          | TO:   | 262+1.198                    | 4.160  | 21,965         | 5                         |         |
|            |           |          |             |     | FROM:        | SH 198                         | FROM: | 288-0.018                    |        |                |                           |         |
| 136        | VAN ZANDT | FM 316   | 0646 - 04   | -   | TO:          | Henderson C/L                  | TO:   | 292+0.902                    | 4.989  | 26,342         | 5                         |         |
|            |           |          |             |     | FROM:        | FM 1861                        | FROM: | 646-0.012                    | 1      |                |                           |         |
| 137        | VAN ZANDT | FM 2339  | 2265 - 01 - | -   | TO:          | FM 773                         | TO:   | 650+0.249                    | 4.327  | 22,847         | 5                         |         |
|            |           |          |             |     | FROM:        | US 69                          | FROM: | 664+0.92                     |        |                |                           |         |
| 138        | WOOD      | FM 49    | 0647 - 01 - | -   | TO:          | FM 14                          | TO:   | 678+0.000                    | 13.719 | 72,436         | 5                         |         |
|            |           |          |             |     | FROM:        | FM 14                          | FROM: | 678+0.022                    |        |                | _                         |         |
| 139        | WOOD      | FM 49    | 0647 - 02 - |     | TO:          | Upshur C/L                     | TO:   | 686+0.027                    | 8.140  | 42,979         | 5                         |         |
|            |           | G11.44   |             |     | FROM:        | Franklin C/L                   | FROM: | 694+0.005                    |        | 47.400         | ,                         |         |
| 140        | WOOD      | SH 11    | 0083 - 06 - | -   | TO:          | Camp C/L                       | TO:   | 702+1.044                    | 8.996  | 47,499         | 4                         |         |
| 1.41       | 14/000    | 116.00   | 0006 01     |     | FROM:        | Mineola City Limits            | FROM: | 738+0.18                     | 0.200  | 44.200         | 2                         |         |
| 141        | WOOD      | US 80    | 0096 - 01   | -   | TO:          | 0.18 MI E FM 3056              | TO:   | 746+0.470                    | 8.390  | 44,299         | 3                         |         |
| 142        | WOOD      | UC 90    | 0096 - 02   |     | FROM:        | 0.18 MI E FM 3056              | FROM: | 746+0.47                     | 1 401  | 7 207          | 3                         |         |
| 142        | WOOD      | US 80    | 0096 - 02   | -   | TO:          | FM 778                         | TO:   | 746+1.843                    | 1.401  | 7,397          | 3                         |         |
| 143        | WOOD      | FM 1801  | 0096 - 05   |     | FROM:        | US 80                          | FROM: | 664-0.028                    | 0.976  | 5,153          | 5                         |         |
| 143        | VVOOD     | 114 1001 | 0030 - 05   |     | TO:          | SL 564                         | ТО:   | 670+0.166                    | 0.370  | در ۱,۱         | ,                         |         |
| 111        | WOOD      | EM 1001  | 0006 05     | 000 | FROM:        | SL 564                         | FROM: | 664+1.055                    | 4.047  | 26 120         | 6                         |         |
| 144        | WOOD      | FM 1801  | 0096 - 05   | 008 | TO:          | US 80                          | то:   | 670+0.166                    | 4.947  | 26,120         | 6                         |         |
|            |           |          |             |     | FROM:        | US 80                          | FROM: | 666-0.025                    | 2.445  |                |                           |         |
| 145        | WOOD      | FM 2422  | 2274 - 01 - | 013 | то:          | FM 1804                        | TO:   | 668+0.684                    | 2.681  | 14,156         | 6                         |         |

NOTE: ACTUAL BEGIN/END OF PROFILE MARKINGS MAY VARY DUE TO EXCEPTIONS FOR LEFT TURN LANES OR 45 MPH OR BELOW SPEED ZONES



| ©TxD0T | 2024   | SHEET     | 2 OF      | 2         |
|--------|--------|-----------|-----------|-----------|
| CONT   | SECT   | JOB       | HIGHWAY   |           |
| 0095   | 08     | 021,Etc   | US 80,Etc |           |
| DIST   | COUNTY |           |           | SHEET NO. |
| TVI    |        | SMITH Etc |           | 16        |

Project Number: Sheet 17

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

**GENERAL NOTES:** 

GENERAL.

Contractor questions on this project are to be addressed to the following individuals:

SEAL COAT: Lance Pomykal Lance.Pomykal@txdot.gov

Josh Fulton <u>Josh.Fulton@txdot.gov</u>

THERMO: Juanita Daniels-West <u>Juanita.DanielsWest@txdot.gov</u>

Steven Swindell <u>Steven.Swindell@txdot.gov</u>

For Q&A on Proposals navigate to:

https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors

Use the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project and click on the link in the window that pops up to view the Q&A.

All relevant project documentation including Contract Time Determinations and cross-sections will still be posted to the districts FTP website.

https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/Tyler%20District/Construction%20Projects

For this Contract, the following standard sheets have been modified:

PM(4)-22A(MOD)

All stockpiles within TxDOT right of way, must not exceed 12 ft. in height and must have 3:1 slope unless otherwise directed. Place stockpiles in a manner that will be outside the horizontal clear zone, will not obstruct traffic or sight distance, and will not interfere with roadway drainage.

Remove all vegetation from pavement edges, intersections, and driveways prior to planing operations, seal coat, or ACP operations. This work will not be paid for directly, but will be subsidiary to the bid items of the Contract.

Project Number: Sheet 17

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

Furnish materials and repair the existing roadway at any place that is damaged by Contractor's operations. This work will not be paid for directly, but will be considered subsidiary to bid items of the Contract.

Resurface intersections and crossovers before resurfacing the roadway unless otherwise authorized. Do not surface concrete pavement or bridge decks that have not been previously surfaced unless otherwise directed.

Submit in writing for approval, the procedure to be used for handling public claims and complaints. Include the time frame in which Contractor will respond to complaints.

Prior to beginning work, supply a toll-free telephone number of the insurance company or Contractor's person responsible for processing complaints and claims.

In high traffic volume areas as designated on location maps, do not begin work before 9 A.M. and do not continue work after 4 P.M. on weekdays unless otherwise approved. In other areas, the Engineer will approve and direct the time of work.

#### LITTER PICKUP

Remove litter from the right of way in the project limits a maximum of 3 cycles per year as directed. Litter pickup will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Equipment used for litter pickup must be approved.

Collect and properly dispose of all litter deposited by construction operations or the traveling public from within the right of way as directed. This includes cans, bottles, paper, plastic items, metal scraps, lumber, etc. Do not dump or stockpile collected litter on Department property.

#### ITEM 6. CONTROL OF MATERIALS

To comply with the latest provisions of Build America, Buy America Act (BABA Act) of the Bipartisan Infrastructure Law, submit a notarized original of the TxDOT Construction Material Buy America Certification Form for all items classified as construction materials. This form is not required for materials classified as a manufactured product.

Refer to the Buy America Material Classification Sheet for clarification on material categorization.

General Notes Sheet A General Notes Sheet B

Project Number: Sheet 17A

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

The Buy America Material Classification Sheet is located at the link below:

https://www.txdot.gov/business/resources/materials/buy-america-material-classification-sheet.html

#### ITEM 7. LEGAL RELATIONS AND RESPONSIBILITIES

This Contract requires work that crosses or is in close proximity to a railroad. Cooperate with the railroads and comply with all of their requirements including obtaining any training they require before performing work on railroad property.

Railroad flaggers will be paid for under the Railroad Force Account under control 0095-08-021.

In accordance with Article 7.9, provide and maintain adequate, neat and sanitary toilet accommodations within the project limits for employees, including State employees.

No significant traffic generator events identified.

#### ITEM 8. PROSECUTION AND PROGRESS

The Work Start Date and the beginning of Working Day charges for this Contract will be March 1, 2024.

Working days will be computed and charged in accordance with Section 8.3.1.2., "Six-Day Workweek."

A milestone is being incorporated into the Contract for Thermoplastic Striping Operations "Thermo" and for specific rumble strip items listed in the Sealcoat section "Rumble" as shown on the plans. The Contractor has 90 calendar days to complete this milestone. This milestone begins March 1, 2024. Days stop being charged to the milestone when both Thermo and Rumble operations are substantially complete. Partial completion will not be considered. The Contractor will be penalized \$1,000 per DAY for each day the operations (either Thermo, Rumble, or both) are under construction in excess of the allotted 90 days.

"Substantial completion" is defined as follows:

Thermoplastic Striping Operations (Thermo): Completion of ALL items listed under thermoplastic striping operations shown in the "Thermo" section of the plans including: (Item 666), (Item 668), (Item 677), (Item 678), (Item 6056), all cleanup necessary post thermoplastic striping operations and any other items subsidiary to the work indicated in the "Thermo" section of the plan set.

Project Number: Sheet 17A

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

Sealcoat Operations Items (Rumble): Completion of Rumble Strips (Shoulder and Centerline)(Item 533) and Elim Ext Pav Mrk & Mrks (Rumble Strip)(Item 677).

Prepare the progress schedule as a critical path method (CPM).

Contract Time Estimate is prepared assuming multiple crews working simultaneously.

#### ITEM 9. MEASUREMENT & PAYMENT

In accordance with Article 9.1., "Measurement of Quantities," furnish the tare and maximum gross weights as well as the volume capacity of all vehicles, trucks, truck-tractors, trailers, semitrailers, or combination of such vehicles used to deliver materials for this Contract. Also, furnish calculations supporting these weights and capacities. Provide all measurements required for pay a minimum of 2 days before the trucks are used.

#### **ITEM 316. SEAL COAT**

The open season for the application of asphalt under Item 316 is from May 1 to August 31.

The Contractor's project superintendent, knowledgeable of TxDOT seal coat operations, and the Department's project manager must drive all roadways for this Contract and review the pavement conditions in order to set preliminary asphalt and aggregate rates. The rates may be adjusted as necessary during construction to allow for any changes in the materials, pavement, or weather conditions at the time of construction.

For Grade 3 references the AC/AR Ratio is 0.84%. For Grade 4 references the AC/AR Ratio is 0.72%.

Protect all existing bridges, curbs, and other exposed concrete surfaces from asphaltic materials by any acceptable method. Removal of excessive asphaltic materials deposited on these surfaces will be at the Contractor's expense.

During surface treatment application, if existing conditions warrant, vary the lane widths, transitions, and intersection areas as directed. Resurface county road, mailbox, and historical turnouts as directed.

Perform rolling as directed with equipment complying with Section 210.2.4.2, "Medium Pneumatic Tire." This work will not be paid for directly, but will be subsidiary to pertinent Items.

Do not apply asphalt later than 1 hour before sunset unless otherwise approved.

General Notes Sheet C Sheet D

Project Number: Sheet 17B

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

The Engineer will approve stockpile sites for materials. Locate stockpile site a minimum of 30 ft. from the roadway unless otherwise authorized. Place stockpiles in a manner that will not interfere with access from abutting property and will not obstruct traffic or sight distance. Avoid stockpiling at intersections. Notify the Engineer at least 5 working days prior to stockpiling material to secure approval of the site. The Engineer may approve stockpiling of materials closer than 30 ft. from the travelway if adequate barricades and devices are furnished and approved. Keep stockpile clear of debris and vegetative growth as approved.

Keep the material pushed into one pile at each stockpile location. Upon completion of each reference project, provide stockpile sites that are clear of debris and dressed in a manner as approved.

Clearly sign stockpile locations with Contractor's name & project name, as approved. This will not be paid for directly, but will be subsidiary to Item 316.

Provide aggregate for shoulders and mainlanes from the same source unless otherwise directed. The rates shown on the plans for asphalt and aggregate are for estimating purposes only. The rates may be varied as directed.

Furnish aggregate from the same source for each reference.

The Contractor's project superintendent, knowledgeable of TxDOT seal coat operations, and the Department's project manager must drive all roadways for this Contract and review the pavement conditions in order to set preliminary asphalt and aggregate rates. The rates may be adjusted as necessary during construction to allow for any changes in the materials, pavement, or weather conditions at the time of construction.

At the Contractor's request, usable surplus aggregate remaining in temporary stockpiles due to errors on the plans, changes in application rates, or changes in project locations will be paid for by delivered invoice price. Load and haul surplus aggregate to permanent stockpile sites as directed. Push aggregate into neat, clean stockpiles. Loading, hauling and stockpiling material will not be paid for directly. Usable aggregate left on the project more than thirty (30) days after project completion will become property of the Department. Remove all contaminated material from the project before final acceptance.

Stockpile sights that are to be moved from an all-weather site to another all-weather site as directed, shall be paid for under Contractor Force Account. Stockpile sites that are to be moved from a non-all-weather site to an all-weather site as directed, shall be moved at the Contractor's expense.

Place surface treatment on crossovers and intersecting roadways prior to the roadway. Provide and install nozzles capable of applying variable rates of asphalt as requested. The Engineer will determine areas to apply variable asphalt rates.

Project Number: Sheet 17B

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

Remove excess aggregate from the completed roadway as directed.

When sealing roadways in curb and gutter sections, remove excess aggregate from sidewalks, gores, and driveways on the day of application and on a daily basis, as required. It is anticipated that a vacuum truck or equivalent may be required to accomplish this work.

Remove all raised pavement markers before placement of the surface treatment. This may be performed by utilizing a maintainer or equivalent with care given to protect existing pavement. Repair any damage to existing pavement resulting in the removal of RPMs. This work will not be paid for directly, but will be subsidiary to pertinent Items. Raised pavement markers are the property of the Contractor. Dispose of removed pavement markers off of the right of way in accordance with federal, state, and local regulations.

Each reference will be shot using a single asphalt type unless otherwise approved.

Upon notification of areas needing repair on previously completed references, make all repairs within 10 days of notification. These repairs include, but are not limited to, strip sealing for striping correction. If these corrections are not completed in that time, all other work will cease, but time charges will continue as directed.

Seal all shoulders unless otherwise directed.

Once a reference is completed, prior to moving to the next reference, all trash and debris shall be picked up and disposed of at an approved site.

#### ITEM 502. BARRICADES, SIGNS, AND TRAFFIC HANDLING

The traffic control plan for this Contract consists of: the installation and maintenance of warning signs and other traffic control devices shown on the plans; specification data, which may be included in the general notes; applicable provisions of the Texas Manual on Uniform Traffic Control Devices (TMUTCD); traffic control plan sheets included on the plans; standard BC sheets; Compliant Work Zone Traffic Control Device List, and Item 502 of the standard specifications.

Use ground-mounted sign mounts with two posts for all temporary work zone signs unless otherwise directed.

Inspect and correct deficiencies each day throughout the duration of the Contract. In accordance with Article 502.4., "Payment," no payment will be made for the month if the Contractor fails to provide or properly maintain signs and devices in compliance with Contract requirements. Temporary warning signs that are visible when conditions do not apply will be considered improper maintenance of signs.

Project Number: Sheet 17C

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

Provide at least one employee on call nights and weekends (or any other time that work is not in progress) for maintenance of signs and traffic control devices. This employee must have an address and telephone number near the project, as approved. Notify the Engineer in writing of the name, address, and telephone number of this employee. The Engineer will furnish this information to local law enforcement officials.

In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have an employee available to respond on the project for emergencies and for taking corrective measures within 30 minutes.

Sign all roads intersecting the project in accordance with current BC standards.

A G20-1B (L or R) or a G20-1A sign will be required on all major roadways intersecting this project. This sign will be used in addition to the standard, "Road Work Ahead" (CW20-1D) warning sign.

Complete project signing before beginning any construction operation.

Refer to the traffic control plan sheets for traffic handling through the work area. Contractor may vary the signing arrangement and spacing as necessary to fit field conditions; however, any proposed changes in the traffic control plan must be approved before implementation.

When the sequence of work is shown on the plans, the Contractor may submit an alternate proposal for approval. Submit in writing all proposed variations and revisions.

High-visibility safety apparel is required for workers in accordance with the General Notes on current BC standards.

Place and maintain signs, channelizing devices, and flaggers to direct and route traffic at any location and for any period of time as may be required or directed.

When operations require a lane closure, provide cones, vertical panels, drums, signs, flaggers, and flashing arrow panels as necessary to route traffic around the closed lane as shown on the plans and as directed. Lane closures will be limited to one specific lane as directed.

Lane closures will not be allowed before 8:30 A.M. for thermo and striping operations unless otherwise directed.

Unless otherwise approved, construction operations will not be allowed on Good Friday, Easter weekend, the Friday before Memorial Day thru Memorial Day, July 4th, the Friday before Labor Day thru Labor Day, the Wednesday before Thanksgiving Day thru Sunday, Christmas Eve,

Project Number: Sheet 17C

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

Christmas Day, New Year's Eve, New Year's Day, or on any other high traffic days or holidays as determined by the Engineer.

Erect R4-1 (Do Not Pass) and R4-2 (Pass With Care) signs to mark existing no-passing zones as directed. (These signs will not be required if these zones will not be eliminated during construction.)

Maintain existing roadside signs within this project's limits during this Contract. In order to accommodate the grading or other operations, temporarily relocate these signs in accordance with the TMUTCD as directed. Use ground-mounted sign mounts with two posts for all relocated signs unless otherwise directed. This work will not be paid for directly, but will be subsidiary to Item 502.

Provide truck-mounted attenuators (TMA) as shown on the appropriate traffic control plan sheets. Provide a letter certifying that all TMA used on this project meet NCHRP 350 or AASHTO Manual for Assessing Safety Hardware (MASH) requirements.

Regulate all construction activities and equipment to minimize inconvenience to the traveling public. At points where it is necessary for trucks to stop, load, or unload, provide warning signs and flaggers to protect the traveling public.

The pavement must be entirely open to traffic each night. Remove or clearly barricade all material stockpiles, equipment left overnight, or any obstruction within 30 ft. of a travelway as approved.

The Contractor Force Account "Safety Contingency" is intended to be used for work zone enhancements that could not be foreseen in the project planning and design stage for the purpose of improving the effectiveness of the Traffic Control Plan. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Provide flaggers at county roads, commercial driveways, and other intersecting roadways deemed necessary by the Engineer to maintain control of the work zone during one-lane two-way operations. Provide communication radios to each flagger in the work zone and the pilot vehicle operator.

Lane closures will not be allowed Thursday thru Sunday of Canton's First Monday Weekend for references 37 & 40.

With prior approval, provide uniformed law enforcement officers for traffic control during construction operations at the high-volume intersections on reference no. 2, 3, 7, 8, 12, 13, 16, 17, 18, 20, 26, 28, 30, 35, 37, 40, 42, 45, 46, 47 unless other traffic control measures are

General Notes Sheet G

Project Number: Sheet 17D

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

approved. The law enforcement officer's intersection control force account is under control 0095-08-021.

Refer to the traffic control details for surfacing operations shown on the plans. Install signs as required by this standard or plan sheet. Keep signs in place until after completion of the surface course operation and until placement of the standard pavement markings. Place standard pavement markings within 7 days of surface treatment application. The placement of acceptable permanent pavement markings and the completion of the final cleanup will be considered a part of the surface course operation. These signs are in addition to the signs and barricades that may be required on standard BC sheets. Short-term stationary/short duration portable signs will be required during the removal of the temporary pavement markings.

Provide a pilot vehicle.

No seal coat operations are allowed during active school zones.

The use of Law Enforcement Officers (LEOs) will be required for this project. Before the preconstruction meeting, coordinate with local agencies to be prepared for staffing needs.

Provide uniformed LEOs with marked vehicles during work zone activities. The officer in marked vehicle will be located as approved to monitor or direct traffic during the closure. The Engineer will approve the method used to direct traffic at signalized intersections. Additional officers and vehicles may be provided when directed.

Complete the daily tracking form provided by the Department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided. Minimums, scheduling fees, etc. will not be paid; TxDOT will consider paying cancellation fees on a case-by-case basis.

All law enforcement personnel used in work zone traffic control must be trained for performing duties in work zones and are required to take "Safe and Effective Use of Law Enforcement Personnel in Work Zones" (Course #133119) which can be found online at the following site: www.nhi.fhwa.dot.gov.

Certificates of completion should be available to all who finish the course. These should be kept by the officers to verify completion when reporting to the work site.

Provide the Engineer 72-hour notice of lane or ramp closures to provide advance notice to the traveling public by way of media and for any dynamic message sign programing. Place Portable Changeable Message Signs (PCMS) at locations as directed a minimum of 3 days in advance of entrance ramp closures on the affected crossroad. These signs are to remain in place during the ramp closures.

Project Number: Sheet 17D

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

All work required by these general notes, except as provided for by Item 502, will not be paid for directly, but will be subsidiary to Item 502 unless otherwise shown on the plans.

## ITEM 506. TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

Remove dirt, silt, rocks, debris, and other foreign matter that accumulates in all structures due to project erosion and Contractor's operations. Keep stream channels open at all times. This work will not be paid for directly, but will be subsidiary to this Item.

The Storm Water Pollution Prevention Plan (SWP3) consists of temporary erosion control measures needed and provided for under this Item. The disturbed area is less than one acre and use of erosion control measures is not anticipated. If physical conditions encountered at the job site require necessary controls, BMP installation, maintenance, and removal will be paid as extra work on a force account basis per Articles 4.4 and 9.7

Provide the following Items for the SWP3 for this Contract as directed on a force account basis:

Temporary sediment control fence, seeding for erosion control, earthwork for erosion control, and vegetative watering.

Temporary erosion control work will be paid for under the Contractor's force account under control 0095-08-021.

#### ITEM 533. MILLED RUMBLE STRIPS

Provide one-lane two-way traffic control on two-lane roadways unless otherwise approved.

Provide traffic control for roadways with other lane configurations as directed.

Provide a sweeper that meets the requirements of Section 354.2.3.

#### ITEM 662. WORK ZONE PAVEMENT MARKINGS

Do not use foil backed pavement markings as removable work zone pavement markings. Removable work zone pavement markings must be pliant polymer detour grade (removable) material or other markings that can be obliterated or removed to the satisfaction of the Engineer.

Use tape for short-term removable pavement markings on hot mix & PFC surfacing applications.

Tabs may be used before surface treatment application.

For each reference, furnish and place work zone pavement markings (short term)(tab) on center

Sheet J

General Notes Sheet I General Notes

Project Number: Sheet 17E

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

lines and lane lines on 40 ft. centers and marking the beginning and end of no passing zones in accordance with TCP(7-1). Place tabs within 1 in. of the proper alignment as established by the Contractor and approved by the Engineer. Remove tabs after placement of permanent markings. Final acceptance will be contingent upon tab removal. Tab removal will be subsidiary to Item 662.

#### ITEM 666. RETROREFLECTORIZED PAVEMENT MARKINGS

Each reference project should cure for three days before striping.

Complete striping on each reference project within eleven (11) days of expiration of the three-day curing period. In the event the striping is not completed within this time frame, all other work shall be stopped immediately until the striping is completed, if directed.

Tabs will be required where surface treatment operations cover parking striping.

Pilot line placement and tab removal will require "Road Work Ahead" and "Flagger Ahead" signs at a distance not to exceed 1 mile.

Use the spray method for application of the thermoplastic compound for lane lines, barrier lines, edge lines and channelizing lines.

In high traffic volume areas, do not begin work before 9 A.M. and do not continue work after 4 P.M. unless otherwise approved. In other areas, the Engineer will approve and direct the time of work.

Extrude hot to the pavement surface thermoplastic compound for arrows, stop lines, yield triangles, transverse lines, crosswalk lines, words and symbols.

For lengths greater than 300-ft, provide guide markings that will not leave a permanent mark on the roadway. Have the guide marking material and equipment used for placement approved prior to use. Provide adequate notification for approval of the guide markings prior to placement of the permanent pavement markings.

Provide a crew experienced in the work of installing pilot guideline markings and in the necessary traffic control. Supply all the equipment, personnel, traffic control, and materials necessary for the placement of pilot guideline markings as directed. All work will be in conformance with Part 6 of the TMUTCD.

The Engineer will establish beginning and ending points of no passing zones.

Project Number: Sheet 17E

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

Correct deficiencies in the alignment of pavement markings at Contractor's expense, as directed. Use a strip seal with aggregate and asphalt types and rates as directed to eliminate the deficient pavement markings.

Static lane closures are required for all profile stripe operations. These operations will require a pilot car for all two-lane roadways, unless otherwise directed.

#### ITEM 672. RAISED PAVEMENT MARKERS

Provide dispensing equipment such that the bituminous material can be directly applied from the melting pot to the pavement surface without secondary handling. Dispensing material from the melting pot into a separate container and then to the pavement surface will not be permitted. Intermittent agitation of the bituminous material will be by a method approved by the Engineer to ensure even heat distribution and must be such that the adhesive is agitated at approved and consistent intervals.

#### ITEM 677. ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS

Remove all existing 300 to 500 mil profile "bumps" (as shown in Standard PM(2)-20) before placement of the surface treatment. This may be performed by utilizing a maintainer or equivalent with care given to protect existing pavement. Immediately collect loose debris with a vacuum system and dispose of removed profile "bumps" off of the right of way in accordance with federal, state, and local regulations. Repair any damage to existing pavement resulting in the removal of these markings. This repair work will not be paid for directly, but will be subsidiary to pertinent items.

Unless otherwise directed, utilize Surface Treatment Method for removal on asphaltic surfaces. The Engineer will approve materials and rates prior to use.

Furnish a high-pressure water blasting system for removing paint, thermoplastic, epoxy and preformed tape material from the following surfaces without causing any grooves or trenching of the surface: asphalt, concrete, permeable friction course, grooved asphalt and grooved concrete.

Use a high-pressure water blasting system that consists of a vacuum recovery system that must provide for a nearly dry surface eliminating the possibility of uncontained run-off blasting water or debris, or the need for any secondary clean-up vehicles or operations.

All components required for the complete operation of the water blasting system (ultra-high-pressure pump, vacuum system, clean water supply, vacuum recovery storage, primary truck-mounted and optional secondary tractor-mounted blasting components)

General Notes Sheet K General Notes Sheet L

Project Number: Sheet 17F

County: SMITH, Etc. Control: 0095-08-021, Etc.

Highway: US 80, Etc.

must be mounted and transported on a single, fully self-contained and supporting single truck chassis, thereby eliminating the need for any additional water, vacuum or other transport vehicles.

Contractor shall skip or cover with approved material, all bridge joints during stripe elimination operations. Damage to the bridge joint material as a result of this operation, shall be repaired at the Contractor's expense.

#### ITEM 6001. PORTABLE CHANGEABLE MESSAGE SIGN

Provide a non-erodible, stable surface to place the Portable Changeable Message Sign (PCMS) units adjacent to the roadway as directed. Payment for this surface is incidental to Item 6001.

#### ITEM 6056. PREFORMED CENTERLINE RUMBLE STRIPS

Supply all equipment and materials necessary for placement of centerline rumble strips.

Provide rumble strips that are black in color with an overall height of 500 mil. Achieve this height with an additional layer of material, as per the manufacturer's dimensions.

Ensure strict placement for centering and aligning all centerline rumble strips. Placement of material will be strictly enforced. Irregular bars not centered or aligned properly will not be accepted.

Replacement of all centerline rumble strips within a separate location will be required when 30% loss of an individual rumble strip exists on 20% of the length of a location or when 500 mil thickness is not maintained. Visual evaluation will be used for these determinations. Upon request, the Engineer will allow a Contractor's representative to accompany the Engineer on these evaluations.

#### ITEM 6185. TRUCK MOUNTED ATTENUATOR (TMA)

Shadow vehicles with truck mounted attenuator (TMA) are required on the traffic control plan and TCP standards for this project. The Contractor will be responsible for determining if one or more of these traffic control operations will be ongoing at the same time to determine the total number of TMAs needed for the project. Additional truck mounted attenuators (TMAs) may be required as deemed necessary by the Engineer.

The TMA/TA used for installation/removal of traffic control for a work area will be subsidiary to the TMA/TA used to perform the work.

General Notes Sheet M



CONTROLLING PROJECT ID 0095-08-021

# **Estimate & Quantity Sheet**

**DISTRICT** Tyler

**COUNTY** Anderson, Cherokee, Gregg, Henderson, Rusk, Smith, Van Zandt, Wood

HIGHWAY
BU 175G, BU 259G, FM 14, FM 1639, FM 1801, FM 1857, FM 2011, FM 2012, FM 2015, FM 2089, FM 2276, FM 2330, FM 235, FM 2422, FM 2869, FM 2907, FM 2961, FM 344, FM 47, FM 59, FM 752, FM 773, FM 779, FM 849, FM 850, FM 851, FM 852, RM 2329, SH 110, SH 154, SH 155, SH 19, SH 198, SH 243, SH 64, SL 124, US 175, US 259, US 271, US 69, US 80, Various

Report Created On: Oct 9, 2023 2:35:11 PM

| ALT | BID CODE | DESCRIPTION                            | UNIT | EST.          | FINAL |
|-----|----------|--|------|---------------|-------|
|     | 316-6140 | AGGR(TY-PD GR-3 SAC-A)                 | CY   | 10,095.000    |       |
|     | 316-6142 | AGGR(TY-PD GR-4 SAC-A)                 | CY   | 13,617.000    |       |
|     | 316-6407 | AGGR (TY-PD GR-3 OR TY-PL GR-3)        | CY   | 16,745.000    |       |
|     | 316-6521 | ASPH (AC-20-5TR OR AC-20XP)            | TON  | 8,770.560     |       |
|     | 316-6533 | AGG (TY-PD GR-3 OR TY-PL GR-3 SAC-A)   | CY   | 4,192.000     |       |
|     | 500-6001 | MOBILIZATION                           | LS   | 1.000         |       |
|     | 502-6001 | BARRICADES, SIGNS AND TRAFFIC HANDLING | МО   | 7.000         |       |
|     | 533-6001 | RUMBLE STRIPS (SHOULDER)               | LF   | 953,784.000   |       |
|     | 533-6002 | RUMBLE STRIPS (CENTERLINE)             | LF   | 513,857.000   |       |
|     | 662-6109 | WK ZN PAV MRK SHT TERM (TAB)TY W       | EA   | 12,790.000    |       |
|     | 662-6111 | WK ZN PAV MRK SHT TERM (TAB)TY Y-2     | EA   | 116,535.000   |       |
|     | 666-6018 | REFL PAV MRK TY I (W)6"(DOT)(100MIL)   | LF   | 3,060.000     |       |
|     | 666-6030 | REFL PAV MRK TY I (W)8"(DOT)(100MIL)   | LF   | 770.000       |       |
|     | 666-6036 | REFL PAV MRK TY I (W)8"(SLD)(100MIL)   | LF   | 54,749.000    |       |
|     | 666-6045 | REFL PAV MRK TY I (W)18"(SLD)(100MIL)  | LF   | 718.000       |       |
|     | 666-6147 | REFL PAV MRK TY I (Y)24"(SLD)(100MIL)  | LF   | 13,664.000    |       |
|     | 666-6171 | REFL PAV MRK TY II (W) 6" (BRK)        | LF   | 109,750.000   |       |
|     | 666-6172 | REFL PAV MRK TY II (W) 6" (DOT)        | LF   | 468.000       |       |
|     | 666-6174 | REFL PAV MRK TY II (W) 6" (SLD)        | LF   | 2,271,612.000 |       |
|     | 666-6176 | REFL PAV MRK TY II (W) 8" (DOT)        | LF   | 2,059.000     |       |
|     | 666-6178 | REFL PAV MRK TY II (W) 8" (SLD)        | LF   | 49,837.000    |       |
|     | 666-6181 | REFL PAV MRK TY II (W) 18" (SLD)       | LF   | 704.000       |       |
|     | 666-6182 | REFL PAV MRK TY II (W) 24" (SLD)       | LF   | 13,150.000    |       |
|     | 666-6184 | REFL PAV MRK TY II (W) (ARROW)         | EA   | 353.000       |       |
|     | 666-6185 | REFL PAV MRK TY II (W) (DBL ARROW)     | EA   | 5.000         |       |
|     | 666-6190 | REFL PAV MRK TY II (W) (LNDP ARW)      | EA   | 6.000         |       |
|     | 666-6192 | REFL PAV MRK TY II (W) (WORD)          | EA   | 224.000       |       |
|     | 666-6196 | REFL PAV MRK TY II (W) (RR XING)       | EA   | 10.000        |       |
|     | 666-6198 | REFL PAV MRK TY II (W) 18" (YLD TRI)   | EA   | 10.000        |       |
|     | 666-6199 | REFL PAV MRK TY II (W) 36" (YLD TRI)   | EA   | 583.000       |       |
|     | 666-6200 | REFL PAV MRK TY II (W) (BIKE ARROW)    | EA   | 2.000         |       |
|     | 666-6202 | REFL PAV MRK TY II (W) (BIKE SYMBOL)   | EA   | 2.000         |       |
|     | 666-6208 | REFL PAV MRK TY II (Y) 6" (BRK)        | LF   | 162,768.000   |       |
|     | 666-6210 | REFL PAV MRK TY II (Y) 6" (SLD)        | LF   | 2,017,417.000 |       |
|     | 666-6223 | RE PM TY II(ACC PRK)(WHT)(SYMBOL ONLY) | EA   | 1.000         |       |
|     | 666-6225 | PAVEMENT SEALER 6"                     | LF   | 59,753.000    |       |
|     | 666-6226 | PAVEMENT SEALER 8"                     | LF   | 6,254.000     |       |
|     | 666-6228 | PAVEMENT SEALER 12"                    | LF   | 706.000       |       |
|     | 666-6230 | PAVEMENT SEALER 24"                    | LF   | 514.000       |       |
|     | 666-6231 | PAVEMENT SEALER (ARROW)                | EA   | 14.000        |       |



| DISTRICT | COUNTY | CCSJ        | SHEET |  |
|----------|--------|-------------|-------|--|
| Tyler    | Smith  | 0095-08-021 | 18    |  |



CONTROLLING PROJECT ID 0095-08-021

# **Estimate & Quantity Sheet**

**DISTRICT** Tyler

COUNTY Anderson, Cherokee, Gregg, Henderson, Rusk, Smith, Van Zandt, Wood

HIGHWAY
BU 175G, BU 259G, FM 14, FM 1639, FM 1801, FM 1857, FM 2011, FM 2012, FM 2015, FM 2089, FM 2276, FM 2330, FM 235, FM 2422, FM 2869, FM 2907, FM 2961, FM 344, FM 47, FM 59, FM 752, FM 773, FM 779, FM 849, FM 850, FM 851, FM 852, RM 2329, SH 110, SH 154, SH 155, SH 19, SH 198, SH 243, SH 64, SL 124, US 175, US 259, US 271, US 69, US 2011, SH 2012, SH 2012

Report Created On: Oct 9, 2023 2:35:11 PM

| LT | BID CODE | DESCRIPTION                             | UNIT | EST.          | FINAL |
|----|----------|---|------|---------------|-------|
|    | 666-6232 | PAVEMENT SEALER (WORD)                  | EA   | 9.000         |       |
|    | 666-6242 | PAVEMENT SEALER (RR XING)               | EA   | 2.000         |       |
|    | 666-6243 | PAVEMENT SEALER (YLD TRI)               | EA   | 23.000        |       |
|    | 666-6306 | RE PM W/RET REQ TY I (W)6"(BRK)(100MIL) | LF   | 120,480.000   |       |
|    | 666-6309 | RE PM W/RET REQ TY I (W)6"(SLD)(100MIL) | LF   | 1,001,302.000 |       |
|    | 666-6318 | RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL) | LF   | 104,010.000   |       |
|    | 666-6321 | RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL) | LF   | 1,445,634.000 |       |
|    | 666-6343 | REF PROF PAV MRK TY I(W)6"(SLD)(100MIL) | LF   | 1,484,252.000 |       |
|    | 666-6346 | REF PROF PAV MRK TY I(Y)6"(BRK)(100MIL) | LF   | 30,790.000    |       |
|    | 666-6347 | REF PROF PAV MRK TY I(Y)6"(SLD)(100MIL) | LF   | 755,880.000   |       |
|    | 668-6077 | PREFAB PAV MRK TY C (W) (ARROW)         | EA   | 415.000       |       |
|    | 668-6078 | PREFAB PAV MRK TY C (W) (DBL ARROW)     | EA   | 1.000         |       |
|    | 668-6083 | PREFAB PAV MRK TY C (W) (LNDP ARROW)    | EA   | 20.000        |       |
|    | 668-6085 | PREFAB PAV MRK TY C (W) (WORD)          | EA   | 274.000       |       |
|    | 668-6089 | PREFAB PAV MRK TY C (W) (RR XING)       | EA   | 22.000        |       |
|    | 668-6091 | PREFAB PAV MRK TY C (W) (18")(YLD TRI)  | EA   | 17.000        |       |
|    | 668-6092 | PREFAB PAV MRK TY C (W) (36")(YLD TRI)  | EA   | 512.000       |       |
|    | 668-6094 | PREFAB PAV MRK TY C (W)(BIKE ARROW)     | EA   | 9.000         |       |
|    | 668-6096 | PREFAB PAV MRK TY C (W)(BIKE SYMBOL)    | EA   | 9.000         |       |
|    | 668-6104 | PREFAB PAV MRK TY C (Y) (6") (SLD)      | LF   | 1,062.000     |       |
|    | 668-6113 | PRE PM TY C(ACC PRK)(BL&WH)(W/BORDR)LG  | EA   | 1.000         |       |
|    | 672-6006 | REFL PAV MRKR TY I-A                    | EA   | 4,030.000     |       |
|    | 672-6007 | REFL PAV MRKR TY I-C                    | EA   | 6,388.000     |       |
|    | 672-6009 | REFL PAV MRKR TY II-A-A                 | EA   | 33,471.000    |       |
|    | 672-6010 | REFL PAV MRKR TY II-C-R                 | EA   | 3,171.000     |       |
|    | 677-6001 | ELIM EXT PAV MRK & MRKS (4")            | LF   | 59,753.000    |       |
|    | 677-6003 | ELIM EXT PAV MRK & MRKS (8")            | LF   | 6,354.000     |       |
|    | 677-6005 | ELIM EXT PAV MRK & MRKS (12")           | LF   | 806.000       |       |
|    | 677-6007 | ELIM EXT PAV MRK & MRKS (24")           | LF   | 614.000       |       |
|    | 677-6008 | ELIM EXT PAV MRK & MRKS (ARROW)         | EA   | 19.000        |       |
|    | 677-6012 | ELIM EXT PAV MRK & MRKS (WORD)          | EA   | 14.000        |       |
|    | 677-6016 | ELIM EXT PAV MRK & MRKS (RR XING)       | EA   | 2.000         |       |
|    | 677-6019 | ELIM EXT PAV MRK & MRKS (36")(YLD TRI)  | EA   | 28.000        |       |
|    | 677-6028 | ELIM EXT PV MRK & MRKS (RUMBLE STRIP)   | LF   | 1,293,434.000 |       |
|    | 678-6002 | PAV SURF PREP FOR MRK (6")              | LF   | 59,753.000    |       |
|    | 678-6004 | PAV SURF PREP FOR MRK (8")              | LF   | 6,254.000     |       |
|    | 678-6006 | PAV SURF PREP FOR MRK (12")             | LF   | 706.000       |       |
|    | 678-6008 | PAV SURF PREP FOR MRK (24")             | LF   | 514.000       |       |
|    | 678-6009 | PAV SURF PREP FOR MRK (ARROW)           | EA   | 14.000        |       |
|    | 678-6016 | PAV SURF PREP FOR MRK (WORD)            | EA   | 9.000         |       |



| DISTRICT | COUNTY | CCSJ        | SHEET |  |
|----------|--------|-------------|-------|--|
| Tyler    | Smith  | 0095-08-021 | 18A   |  |



#### **CONTROLLING PROJECT ID** 0095-08-021

**DISTRICT** Tyler

# **Estimate & Quantity Sheet**

**COUNTY** Anderson, Cherokee, Gregg, Henderson, Rusk, Smith, Van Zandt, Wood

HIGHWAY BU 175G, BU 259G, FM 14, FM 1639, FM 1801, FM 1857, FM 2011, FM 2012, FM 2015, FM 2089, FM 2276, FM 2330, FM 235, FM 2422, FM 2869, FM 2907, FM 2961, FM 344, FM 47, FM 59, FM 752, FM 773, FM 779, FM 849, FM 850, FM 851, FM 852, RM 2329, SH 110, SH 154, SH 155, SH 19, SH 198, SH 243, SH 64, SL 124, US 175, US 259, US 271, US 69, US 280, Various

Report Created On: Oct 9, 2023 2:35:11 PM

| ALT | BID CODE  | DESCRIPTION  | UNIT | EST.        | FINAL |
|-----|-----------|--|------|-------------|-------|
|     | 678-6020  | PAV SURF PREP FOR MRK (RR XING)                                      | EA   | 2.000       |       |
|     | 678-6023  | PAV SURF PREP FOR MRK (36")(YLD TRI)                                 | EA   | 23.000      |       |
|     | 3028-6002 | FRICTIONAL ASPH SURF PRESERV TRTMT                                   | SY   | 252,338.000 |       |
|     | 6001-6001 | PORTABLE CHANGEABLE MESSAGE SIGN                                     | DAY  | 74.000      |       |
|     | 6056-6001 | PREFORMED IN-LANE(TRANS) RUMBLE STRIP                                | LF   | 240.000     |       |
|     | 6056-6002 | PREFORMED CENTERLINE RUMBLE STRIP                                    | LF   | 270.000     |       |
|     | 6185-6002 | TMA (STATIONARY)   | DAY  | 93.000      |       |
|     | 6185-6005 | TMA (MOBILE OPERATION)   | DAY  | 119.000     |       |
|     | 18        | EROSION CONTROL MAINTENANCE:<br>CONTRACTOR FORCE ACCOUNT WORK (PART) | LS   | 1.000       |       |
|     |           | SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)    | LS   | 1.000       |       |
|     |           | LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)       | LS   | 1.000       |       |
|     |           | CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)                        | LS   | 1.000       |       |
|     |           | RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)     | LS   | 1.000       |       |



| DISTRICT | COUNTY | CCSJ        | SHEET |  |
|----------|--------|-------------|-------|--|
| Tyler    | Smith  | 0095-08-021 | 18B   |  |

|    |            | BASIS OF ES   | TIMATE                           |                     |             |
|----|------------|---|----------------------------------|---------------------|-------------|
|    | ITEM       | DESCRIPTION   | RATE                             | PROJECT<br>TOTAL    | PAY<br>UNIT |
| 1) | 210        | ROLL (MED PNEUM TIRE) (TY B)  | 1.00 HR/3500 SY                  | 1,481               | HR          |
|    | 316        | ASPH (AC-20-5TR OR AC-20XP)   | 8.47 GAL/LB                      | 8,770.56            | TON         |
| ŀ  | 316<br>316 | AGGR (TY-PD GR-3 OR TY-PL GR-3) AGGR (TY-PD GR-3 OR TY-PL GR-3 SAC-A) | 1.00 CY/110 SY<br>1.00 CY/110 SY | 16,745<br>4,192     | CY          |
|    | 316<br>316 | AGGR (TY-PD GR 3 SAC-A) ASPH (AC-20-5TR OR AC-20XP)                   | 1.00 CY/110 SY<br>0.42 GAL/SY    | 10,095<br>1,433,708 | CY<br>GAL   |
| 1] | 316        | AGGR (TY-PD GR-4 SAC-A)   | 1.00 CY/130 SY                   | 13,617              | CY          |
| 1] | 316        | ASPH (AC-20-5TR OR AC-20XP)   | 0.36 GAL/SY                      | 637,262             | GAL         |
| 2] | 3028       | FRICTIONAL ASPH SURF PRESERV TRTMT                                    | 0.25 GAL/SY                      | 252,338             | SY          |
| ŀ  | 500        | MOBILIZATION  |                                  | 1                   | LS          |
|    | 502        | BARRICADES, SIGNS AND TRAFFIC HANDLING                                |                                  | 4                   | МО          |

[1] FOR CONTRACTORS INFORMATION ONLY.

[2] TO BE USED ON REFERENCES NOTED FOR OUTSIDE SHOULDERS GREATER THAN 8' IN WIDTH.

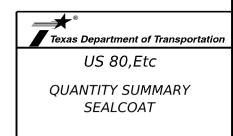
|             |                              |               |      |      | IAD   | OLATION C                              | F SUKFACE                       | AREA SUMM                           | AKT (1 OF 2)                                 |                             |                             |  |
|-------------|------------------------------|---------------|------|------|-------|--|---------------------------------|-------------------------------------|--|-----------------------------|-----------------------------|--|
|             |                              |               |      |      |       |  |                                 | ITEM                                | 316  |                             |                             | ITEM 3028                              |
| REF.<br>NO. | COUNTY                       | ROADWAY       |      | csj  |       | [1]<br>ASPH<br>AC-20-5TR<br>OR AC-20XP | ASPH<br>AC-20-5TR<br>OR AC-20XP | AGGR<br>TY-PD GR-3<br>OR TY-PL GR-3 | AGGR<br>TY-PD GR-3<br>OR TY-PL GR-3<br>SAC-A | AGGR<br>TY-PD GR-3<br>SAC-A | AGGR<br>TY-PD GR-4<br>SAC-A | [2] FRICTIONAL ASPH SURF PRESERV TRTMT |
|             | CONTROL CSJ 0095-08-021. ETC |               |      |      |       | GAL                                    | TON                             | СҮ                                  | CY   | CY                          | CY                          | SY                                     |
| 1           | ANDERSON                     | FM 2330       | 2195 | - 02 | - 007 | 43,029                                 | 182.23                          | 931                                 |  |                             |                             |  |
| 2           | ANDERSON                     | US 175        | 0198 | - 03 | - 036 | · · · · · · · · · · · · · · · · · · ·  | 270.51                          |                                     |  |                             | 1,365                       |  |
| 3           | ANDERSON                     | SH 155        | 0520 | - 08 | - 072 | 23,176                                 | 98.15                           |                                     |  |                             | 495                         |  |
| 4           | ANDERSON                     | FM 2961       | 3019 | - 01 | - 009 | 55,850                                 | 236.53                          | 1,209                               |  |                             |                             |  |
| 5           | CHEROKEE                     | FM 235        | 1150 | - 02 | - 007 | 38,819                                 | 164.40                          | 840                                 |  |                             |                             |  |
| 6           | CHEROKEE                     | FM 1857       | 1929 | - 01 | - 011 | 62,116                                 | 263.06                          | 1,345                               |  |                             |                             |  |
| 7           | CHEROKEE                     | US 69         | 0199 | - 03 | - 044 | 60,731                                 | 257.20                          |                                     |  |                             | 1,298                       |  |
| 8           | CHEROKEE                     | US 69         | 0199 | - 01 | - 088 | 42,165                                 | 178.57                          |                                     |  |                             | 901                         |  |
| 9           | CHEROKEE                     | US 69         | 0199 | - 02 | - 062 | 8,254                                  | 34.96                           |                                     |  |                             | 176                         |  |
| 10          | CHEROKEE                     | FM 752        | 0345 | - 09 | - 011 | 49,689                                 | 210.43                          | 1,076                               |  |                             |                             |  |
| 11          | CHEROKEE                     | FM 752        | 2066 | - 01 | - 006 | 39,788                                 | 168.50                          | 861                                 |  |                             |                             |  |
| 12          | GREGG                        | US 271        | 0165 | - 03 | - 039 | 10,456                                 | 44.28                           |                                     |  |                             | 223                         |  |
| 13          | GREGG                        | US 271        | 0248 | - 06 | - 019 | 7,278                                  | 30.82                           |                                     |  |                             | 156                         |  |
| 14          | GREGG                        | FM 2276       | 2159 | - 01 | - 009 | 24,961                                 | 105.71                          | 540                                 |  |                             |                             |  |
| 15          | GREGG                        | FM 2011       | 1932 | - 01 | - 011 | 42,639                                 | 180.58                          |                                     |  |                             | 911                         |  |
| 16          | HENDERSON                    | SH 198        | 1668 | - 01 | - 022 | 31,348                                 | 132.76                          |                                     |  |                             | 670                         |  |
| 17          | HENDERSON                    | SH 198        | 0646 | - 05 | - 042 | 12,467                                 | 52.80                           |                                     | 270  |                             |                             |  |
| 18          | HENDERSON                    | SH 19         | 0108 | - 04 | - 042 | 35,849                                 | 151.82                          |                                     |  |                             | 766                         |  |
| 19          | HENDERSON                    | FM 59         | 0458 | - 01 | - 027 | 32,389                                 | 137.17                          |                                     | 701  |                             |                             |  |
| 20          | HENDERSON                    | BU175G        | 0198 | - 01 | - 033 | 19,457                                 | 82.40                           |                                     |  |                             | 416                         |  |
| 21          | HENDERSON                    | RM 2329       | 2196 | - 01 | - 015 | 49,209                                 | 208.40                          | 1,065                               |  |                             |                             |  |
| 22          | RUSK                         | FM 2012       | 1933 | - 02 | - 016 | 52,497                                 | 222.33                          | 1,136                               |  |                             |                             |  |
| 23          | RUSK                         | US 259        | 0138 | - 02 | - 040 | 93,550                                 | 396.19                          |                                     |  | 2,025                       |                             | 39,392                                 |
| 24          | RUSK                         | BU 259        | 0138 | - 02 | - 041 | 12,264                                 | 51.94                           |                                     |  |                             | 262                         | 7,565                                  |
| 25          | RUSK                         | FM 850        | 1163 | - 02 | - 033 | 48,773                                 | 206.56                          | 1,056                               |  |                             |                             |  |
| 26          | SMITH                        | SL 124        | 0245 | - 16 | - 008 | 8,334                                  | 35.30                           |                                     |  |                             | 178                         |  |
|             | SUBTOT                       | TALS (1 OF 2) |      |      |       | 968,963                                | 4,103.56                        | 10,059                              | 971  | 2,025                       | 7,817                       | 46,957                                 |

[1] FOR CONTRACTORS INFORMATION ONLY.

[2] TO BE USED ON REFERENCES NOTED FOR OUTSIDE SHOULDERS GREATER THAN 8' IN WIDTH.

|   | REF. |           |                |        |   |     |   |     | ITEM 6001<br>PORTABLE |
|---|------|-----------|----------------|--------|---|-----|---|-----|-----------------------|
|   | NO.  | COUNTY    | ROADWAY        |        |   | CSJ |   |     | CHANGEABLE            |
|   |      |           |                |        |   | ,   |   |     | MESSAGE SIGN          |
| r |      | CONTROL   | CSJ 0095-08-02 | 1. ETC |   |     |   |     | DAY                   |
|   | 1    | ANDERSON  | FM 2330        | 2195   | - | 02  | - | 007 | 1                     |
|   | 2    | ANDERSON  | US 175         | 0198   | - | 03  | - | 036 | 2                     |
|   | 3    | ANDERSON  | SH 155         | 0520   | - | 08  | - | 072 | 2                     |
|   | 4    | ANDERSON  | FM 2961        | 3019   | - | 01  | - | 009 | 1                     |
|   | 5    | CHEROKEE  | FM 235         | 1150   | - | 02  | - | 007 | 1                     |
|   | 6    | CHEROKEE  | FM 1857        | 1929   | - | 01  | - | 011 | 1                     |
| Γ | 7    | CHEROKEE  | US 69          | 0199   | - | 03  | - | 044 | 2                     |
| Г | 8    | CHEROKEE  | US 69          | 0199   | - | 01  | - | 088 | 2                     |
| Г | 9    | CHEROKEE  | US 69          | 0199   | - | 02  | - | 062 | 1                     |
|   | 10   | CHEROKEE  | FM 752         | 0345   | - | 09  | - | 011 | 1                     |
|   | 11   | CHEROKEE  | FM 752         | 2066   | - | 01  | - | 006 | 1                     |
|   | 12   | GREGG     | US 271         | 0165   | - | 03  | - | 039 | 2                     |
|   | 13   | GREGG     | US 271         | 0248   | - | 06  | - | 019 | 2                     |
|   | 14   | GREGG     | FM 2276        | 2159   | - | 01  | - | 009 | 1                     |
|   | 15   | GREGG     | FM 2011        | 1932   | - | 01  | - | 011 | 1                     |
|   | 16   | HENDERSON | SH 198         | 1668   | - | 01  | - | 022 | 2                     |
| Г | 17   | HENDERSON | SH 198         | 0646   | - | 05  | - | 042 | 2                     |
|   | 18   | HENDERSON | SH 19          | 0108   | - | 04  | - | 042 | 2                     |
| Г | 19   | HENDERSON | FM 59          | 0458   | - | 01  | - | 027 | 1                     |
| Г | 20   | HENDERSON | BU175G         | 0198   | - | 01  | - | 033 | 2                     |
|   | 21   | HENDERSON | RM 2329        | 2196   | - | 01  | - | 015 | 1                     |
|   | 22   | RUSK      | FM 2012        | 1933   | - | 02  | - | 016 | 1                     |
|   | 23   | RUSK      | US 259         | 0138   | - | 02  | - | 040 | 2                     |
|   | 24   | RUSK      | BU 259         | 0138   | - | 02  | - | 041 | 1                     |
|   | 25   | RUSK      | FM 850         | 1163   | - | 02  | - | 033 | 1                     |
| Ĺ | 26   | SMITH     | SL 124         | 0245   | - | 16  | - | 008 | 2                     |

[1] SHALL BE SIGNED FOR A MINUMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITIES STARTING NOTE: 1. TO BE USED AS DIRECTED



|      | 2024 | SHEET     | 1 (     | OF 13     |  |  |  |
|------|------|-----------|---------|-----------|--|--|--|
| CONT | SECT |           | HIGHWAY |           |  |  |  |
| 0095 | 08   | 021,Etc   |         | US 80,Etc |  |  |  |
| DIST |      | COUNTY    | OUNTY   |           |  |  |  |
| TYL  |      | SMITH,Etc |         | 19        |  |  |  |

|            | SUMMAF                                      |
|------------|---|
|            | QUANTITY                                    |
|            | GEN   |
|            | 021   |
|            | 08  |
|            | 10580                                       |
|            | nd\d0618253\US80 08 021 GEN QUANTITY SUMMAF |
|            | re.redmond\                                 |
|            | txdot\pw_online\txdot3\rye.redmor           |
| •          | online                                      |
| 2/10/10/20 | txdot pw                                    |
| ì          | Ü   |

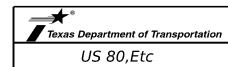
|             |                            |                 |      |      | TAE   | BULATION O                             | F SURFACE                       | AREA SUMM                           | ARY (2 OF 2)                        |                             |                             |   |
|-------------|----------------------------|-----------------|------|------|-------|--|---------------------------------|-------------------------------------|-------------------------------------|-----------------------------|-----------------------------|---|
|             |                            |                 |      |      |       |  |                                 | ITEM                                | 316                                 |                             |                             | ITEM 3028                                       |
| REF.<br>NO. | COUNTY                     | ROADWAY         |      | csj  |       | [1]<br>ASPH<br>AC-20-5TR<br>OR AC-20XP | ASPH<br>AC-20-5TR<br>OR AC-20XP | AGGR<br>TY-PD GR-3<br>OR TY-PL GR-3 | AGGR<br>TY-PD GR-3<br>OR TY-PL GR-3 | AGGR<br>TY-PD GR-3<br>SAC-A | AGGR<br>TY-PD GR-4<br>SAC-A | [2]<br>FRICTIONAL<br>ASPH SURF<br>PRESERV TRTMT |
|             | CONTROL CSJ 0095-08-021. E |                 |      |      |       | GAL                                    | TON                             | CY                                  | SAC-A<br>CY                         | CY                          | CY                          | SY  |
| 27          | SMITH                      | SH 110          | 0505 | - 02 | - 048 |  | 162.93                          | 833                                 | <u> </u>                            |                             | <u> </u>                    | 31  |
| 28          | SMITH                      | FM 344          | 0927 | - 01 | - 034 | , , , , , , , , , , , , , , , , , , ,  | 114.33                          | 833                                 |                                     |                             | 577                         |   |
| 29          | SMITH                      | FM 849          | 0429 | - 05 | - 003 | ,                                      | 175.15                          |                                     | 895                                 |                             | 377                         |   |
| 30          | SMITH                      | FM 2015         | 1934 | - 02 | - 009 | · · · · · · · · · · · · · · · · · · ·  | 161.33                          |                                     | 033                                 |                             | 814                         |   |
| 31          | SMITH                      | US 69           | 0190 | - 04 | - 041 |  | 576.91                          |                                     |                                     | 2,949                       |                             | 83,291  |
| 32          | SMITH                      | SH 64           | 0245 | - 06 | - 090 | 8,863                                  | 37.54                           |                                     | 192                                 |                             |                             |   |
| 33          | SMITH                      | SH 64           | 0245 | - 07 | - 031 | 18,475                                 | 78.24                           |                                     | 400                                 |                             |                             | 54,709  |
| 34          | SMITH                      | US 80           | 0095 | - 08 | - 021 | 24,506                                 | 103.78                          |                                     |                                     | 530                         |                             |   |
| 35          | VAN ZANDT                  | FM 47           | 0646 | - 01 | - 036 | 37,968                                 | 160.80                          | 822                                 |                                     |                             |                             |   |
| 36          | VAN ZANDT                  | SH 110          | 0505 | - 01 | - 049 | 34,129                                 | 144.54                          | 739                                 |                                     |                             |                             |   |
| 37          | VAN ZANDT                  | SH 243          | 0522 | - 02 | - 039 | 86,326                                 | 365.59                          |                                     |                                     |                             | 1,845                       |   |
| 38          | VAN ZANDT                  | FM 773          | 1099 | - 04 | - 013 | 36,341                                 | 153.91                          | 787                                 |                                     |                             |                             |   |
| 39          | VAN ZANDT                  | US 80           | 0095 | - 07 | - 061 | 101,595                                | 430.26                          |                                     |                                     | 2,199                       |                             |   |
| 40          | VAN ZANDT                  | SH 19           | 0108 | - 01 | - 031 | 74,024                                 | 313.49                          |                                     |                                     |                             | 1,582                       |   |
| 41          | WOOD                       | FM 852          | 0767 | - 04 | - 008 | 72,643                                 | 307.64                          | 1,572                               |                                     |                             |                             |   |
| 42          | WOOD                       | SH 154          | 0401 | - 02 | - 035 | 80,124                                 | 339.32                          |                                     | 1,734                               |                             |                             | 65,477  |
| 43          | WOOD                       | FM 2896         | 2958 | - 02 | - 012 | · · · · · · · · · · · · · · · · · · ·  | 218.06                          | 1,114                               |                                     |                             |                             |   |
| 44          | WOOD                       | FM 779          | 1111 | - 01 | - 015 | · · · · · · · · · · · · · · · · · · ·  | 160.36                          | 820                                 |                                     |                             |                             |   |
| 45          | WOOD                       | US 80           | 0095 | - 09 | - 040 |  | 385.81                          |                                     |                                     | 1,972                       |                             | 1,904   |
| 46          | WOOD                       | US 80           | 0096 | - 01 | - 047 | · '                                    | 82.24                           |                                     |                                     | 420                         |                             |   |
| 47          | WOOD                       | FM 14           | 0492 | - 03 | - 041 | · · · · · · · · · · · · · · · · · · ·  | 194.78                          |                                     |                                     |                             | 983                         |   |
|             |                            | TOTALS (2 OF 2) |      |      |       | 1,102,006                              | 4,667.00                        | 6,686                               | 3,221                               | 8,070                       | 5,800                       | 205,381   |
|             | SUB                        | TOTALS (1 OF 2) |      |      |       | 968,963                                | 4,103.56                        | 10,059                              | 971                                 | 2,025                       | 7,817                       | 46,957  |
|             | PR                         | OJECT TOTALS    |      |      |       | 2,070,970                              | 8,770.56                        | 16,745                              | 4,192                               | 10,095                      | 13,617                      | 252,338   |

[1] FOR CONTRACTORS INFORMATION ONLY.

[2] TO BE USED ON REFERENCES NOTED FOR OUTSIDE SHOULDERS GREATER THAN 8' IN WIDTH.

|   | REF.<br>NO. | COUNTY           | ROADWAY         |        |   | csj |   |     | ITEM 6001  PORTABLE  CHANGEABLE  MESSAGE SIGN |
|---|-------------|------------------|-----------------|--------|---|-----|---|-----|---|
|   |             | CONTROL          | CSJ 0095-08-02  | 1. ETC |   |     |   |     | DAY   |
|   | 27          | SMITH            | SH 110          | 0505   | - | 02  | - | 048 | 1   |
|   | 28          | SMITH            | FM 344          | 0927   | - | 01  | - | 034 | 2   |
|   | 29          | SMITH            | FM 849          | 0429   | - | 05  | - | 003 | 1   |
| ' | 30          | SMITH            | FM 2015         | 1934   | - | 02  | - | 009 | 2   |
|   | 31          | SMITH            | US 69           | 0190   | - | 04  | - | 041 | 3   |
|   | 32          | SMITH            | SH 64           | 0245   | - | 06  | - | 090 | 1   |
|   | 33          | SMITH            | SH 64           | 0245   | - | 07  | - | 031 | 1   |
|   | 34          | SMITH            | US 80           | 0095   | - | 08  | - | 021 | 1   |
| ' | 35          | VAN ZANDT        | FM 47           | 0646   | - | 01  | - | 036 | 2   |
|   | 36          | VAN ZANDT        | SH 110          | 0505   | - | 01  | - | 049 | 1   |
|   | 37          | VAN ZANDT        | SH 243          | 0522   | - | 02  | - | 039 | 3   |
|   | 38          | VAN ZANDT        | FM 773          | 1099   | - | 04  | - | 013 | 1   |
|   | 39          | VAN ZANDT        | US 80           | 0095   | - | 07  | - | 061 | 2   |
| ' | 40          | VAN ZANDT        | SH 19           | 0108   | - | 01  | - | 031 | 3   |
|   | 41          | WOOD             | FM 852          | 0767   | - | 04  | - | 008 | 1   |
| ' | 42          | WOOD             | SH 154          | 0401   | - | 02  | - | 035 | 2   |
|   | 43          | WOOD             | FM 2896         | 2958   | - | 02  | - | 012 | 1   |
|   | 44          | WOOD             | FM 779          | 1111   | - | 01  | - | 015 | 1   |
| 1 | 45          | WOOD             | US 80           | 0095   | - | 09  | - | 040 | 3   |
| 1 | 46          | WOOD             | US 80           | 0096   | - | 01  | - | 047 | 2   |
|   | 47          | WOOD             | FM 14           | 0492   | - | 03  | - | 041 | 2   |
|   |             | SUB <sup>*</sup> | TOTALS (2 OF 2) | )      |   |     |   |     | 36  |

[1] SHALL BE SIGNED FOR A MINUMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITIES STARTING NOTE: 1. TO BE USED AS DIRECTED



|      | 2024 | SHEET     | 2 OF | 13        |  |  |
|------|------|-----------|------|-----------|--|--|
| CONT | SECT | JOB       | ,    | HIGHWAY   |  |  |
| 0095 | 08   | 021,Etc   | US   | US 80,Etc |  |  |
| DIST |      | COUNTY    |      | SHEET NO. |  |  |
| TYI  |      | SMITH Ftc |      | 20        |  |  |

| 01101010          | .14.10 AM   |        |     |          |      |
|-------------------|---|--------|-----|----------|------|
| E: c:\txdot\pw on | c:\txdot\pw online\txdot3\rye.redmond\d0618253\US80 08 021 GEN QUANTITY SUM | 18 021 | GEN | QUANTITY | SUMI |

|             |           |               |          |     |       |     |                        | ITEN                       | 1 6185                           |
|-------------|-----------|---------------|----------|-----|-------|-----|------------------------|----------------------------|----------------------------------|
| REF.<br>NO. | COUNTY    | ROADWAY       |          | c   | sj    |     | NUMBER<br>OF<br>TRUCKS | [1]<br>TMA<br>(STATIONARY) | [1]<br>TMA<br>(MOBILE OPERATION) |
|             |           | CONTROL CSJ 0 | 095-08-0 | 021 | . ЕТ  | c   |                        | DAY                        | DAY                              |
| 1           | ANDERSON  | FM 2330       | 2195     | - ( | )2  - | 007 | 1                      | 1                          | 1                                |
| 2           | ANDERSON  | US 175        | 0198     | - 0 | )3 -  | 036 | 1                      | 2                          | 2                                |
| 3           | ANDERSON  | SH 155        | 0520     | - 0 | 8 -   | 072 | 1                      | 1                          | 1                                |
| 4           | ANDERSON  | FM 2961       | 3019     | - ( | 01 -  | 009 | 1                      | 1                          | 1                                |
| 5           | CHEROKEE  | FM 235        | 1150     | - 0 | )2 -  | 007 | 1                      | 1                          | 1                                |
| 6           | CHEROKEE  | FM 1857       | 1929     | - ( | 01 -  | 011 | 1                      | 1                          | 1                                |
| 7           | CHEROKEE  | US 69         | 0199     | - 0 | )3 -  | 044 | 1                      | 2                          | 2                                |
| 8           | CHEROKEE  | US 69         | 0199     | - 0 | 01 -  | 088 | 1                      | 1                          | 1                                |
| 9           | CHEROKEE  | US 69         | 0199     | - 0 | )2 -  | 062 | 1                      | 1                          | 1                                |
| 10          | CHEROKEE  | FM 752        | 0345     | - 0 | 9 -   | 011 | 1                      | 1                          | 1                                |
| 11          | CHEROKEE  | FM 752        | 2066     | - ( | 01 -  | 006 | 1                      | 1                          | 1                                |
| 12          | GREGG     | US 271        | 0165     | - 0 | )3 -  | 039 | 1                      | 1                          | 1                                |
| 13          | GREGG     | US 271        | 0248     | - 0 | 06 -  | 019 | 1                      | 1                          | 1                                |
| 14          | GREGG     | FM 2276       | 2159     | - ( | 01 -  | 009 | 1                      | 1                          | 1                                |
| 15          | GREGG     | FM 2011       | 1932     | - ( | 01 -  | 011 | 1                      | 1                          | 1                                |
| 16          | HENDERSON | SH 198        | 1668     | - ( | 01 -  | 022 | 1                      | 1                          | 1                                |
| 17          | HENDERSON | SH 198        | 0646     | - 0 | )5 -  | 042 | 1                      | 1                          | 1                                |
| 18          | HENDERSON | SH 19         | 0108     | - ( | )4 -  | 042 | 1                      | 1                          | 1                                |
| 19          | HENDERSON | FM 59         | 0458     | - ( | 01 -  | 027 | 1                      | 1                          | 1                                |
| 20          | HENDERSON | BU175G        | 0198     | - ( | 01 -  | 033 | 1                      | 1                          | 1                                |
| 21          | HENDERSON | RM 2329       | 2196     | - ( | 01 -  | 015 | 1                      | 1                          | 1                                |
| 22          | RUSK      | FM 2012       | 1933     | - ( | )2 -  | 016 | 1                      | 1                          | 1                                |
| 23          | RUSK      | US 259        | 0138     | - ( | )2 -  | 040 | 1                      | 3                          | 3                                |
| 24          | RUSK      | BU 259        | 0138     | - 0 | )2 -  | 041 | 1                      | 1                          | 1                                |
| 25          | RUSK      | FM 850        | 1163     | - 0 | )2 -  | 033 | 1                      | 1                          | 1                                |
| 26          | SMITH     | SL 124        | 0245     | - 1 | 16 -  | 008 | 1                      | 1                          | 1                                |
|             | SURTOT    | ALS (1 OF 2)  |          |     |       | 1   | 26                     | 30                         | 30                               |

[1] TOTAL DAYS FOR NUMBER OF TRUCKS SHOWN.

|      |           | T               | RUCK MOU                    | NTEL   | ATTENUATO    | RS (2 OF 2)        |        |
|------|-----------|-----------------|-----------------------------|--------|--------------|--------------------|--------|
|      |           |                 |                             |        |              | ITEI               | M 6185 |
| REF. |           |                 |                             |        | NUMBER       | [1]                | [1]    |
| NO.  | COUNTY    | ROADWAY         | csj                         |        | OF           | TMA                | ТМА    |
|      |           |                 |                             | TRUCKS | (STATIONARY) | (MOBILE OPERATION) |        |
|      |           | CONTROL CSJ 0   | <u> </u><br>095-08-021. ETC | I<br>; |              | DAY                | DAY    |
| 27   | SMITH     | SH 110          | 0505 - 02 -                 | 048    | 1            | 1                  | 1      |
| 28   | SMITH     | FM 344          | 0927 - 01 -                 | 034    | 1            | 1                  | 1      |
| 29   | SMITH     | FM 849          | 0429 - 05 -                 | 003    | 1            | 1                  | 1      |
| 30   | SMITH     | FM 2015         | 1934 - 02 -                 | 009    | 1            | 1                  | 1      |
| 31   | SMITH     | US 69           | 0190 - 04 -                 | 041    | 1            | 5                  | 5      |
| 32   | SMITH     | SH 64           | 0245 - 06 -                 | 090    | 1            | 1                  | 1      |
| 33   | SMITH     | SH 64           | 0245 - 07 -                 | 031    | 1            | 1                  | 1      |
| 34   | SMITH     | US 80           | 0095 - 08 -                 | 021    | 1            | 1                  | 1      |
| 35   | VAN ZANDT | FM 47           | 0646 - 01 -                 | 036    | 1            | 1                  | 1      |
| 36   | VAN ZANDT | SH 110          | 0505 - 01 -                 | 049    | 1            | 1                  | 1      |
| 37   | VAN ZANDT | SH 243          | 0522 - 02 -                 | 039    | 1            | 3                  | 3      |
| 38   | VAN ZANDT | FM 773          | 1099 - 04 -                 | 013    | 1            | 1                  | 1      |
| 39   | VAN ZANDT | US 80           | 0095 - 07 -                 | 061    | 1            | 3                  | 3      |
| 40   | VAN ZANDT | SH 19           | 0108 - 01 -                 | 031    | 1            | 3                  | 3      |
| 41   | WOOD      | FM 852          | 0767 - 04 -                 | 008    | 1            | 2                  | 2      |
| 42   | WOOD      | SH 154          | 0401 - 02 -                 | 035    | 1            | 2                  | 2      |
| 43   | WOOD      | FM 2896         | 2958 - 02 -                 | 012    | 1            | 1                  | 1      |
| 44   | WOOD      | FM 779          | 1111 - 01 -                 | 015    | 1            | 1                  | 1      |
| 45   | WOOD      | US 80           | 0095 - 09 -                 | 040    | 1            | 3                  | 3      |
| 46   | WOOD      | US 80           | 0096 - 01 -                 | 047    | 1            | 1                  | 1      |
| 47   | WOOD      | FM 14           | 0492 - 03 -                 | 041    | 1            | 1                  | 1      |
|      | SU        | BTOTALS (2 OF 2 | 2)                          |        | 21           | 35                 | 35     |
|      | SU        | BTOTALS (1 OF 2 | 2)                          |        | 26           | 30                 | 30     |
|      | P         | ROJECT TOTALS   |                             |        | 47           | 65                 | 65     |

[1] TOTAL DAYS FOR NUMBER OF TRUCKS SHOWN.



|      | 2024 | SHEET     | 3 OF    | 13        |  |
|------|------|-----------|---------|-----------|--|
| CONT | SECT | JOB       | HIGHWAY |           |  |
| 0095 | 08   | 021,Etc   | US      | 80,Etc    |  |
| DIST |      | COUNTY    |         | SHEET NO. |  |
| TYL  |      | SMITH,Etc |         | 21        |  |

|             | \\doe18253\US80 08 021 GEN QUANTITY |
|-------------|-------------------------------------|
| M           | dmond                               |
| 11:14:15 AI | t\pw online\txdot3\rye.re           |
| 9/18/2023   | c:\txdot\pw                         |
| Ë           | Ë                                   |

|      |           |                 |        |        |       |                 |            | PAVEMENT     | MARKING    | SUMMARY      | (1 OF 10) |          |           |             |          |           |           |          |          |
|------|-----------|-----------------|--------|--------|-------|-----------------|------------|--------------|------------|--------------|-----------|----------|-----------|-------------|----------|-----------|-----------|----------|----------|
|      |           |                 | I      |        |       | ITEM 6056       | ITEN       | 4 533        |            | 4 662        | 10/ 10/   |          |           |             | ITEM 666 |           |           |          |          |
| REF. |           |                 |        |        |       | PREFORMED       | [*]        | [*]          | WK ZN      | WK ZN        |           |          | ı         | REFL PAV MR | K        |           |           | REFL P   | PAV MRK  |
| NO.  | COUNTY    | ROADWAY         |        | CSJ    |       | IN-LANE (TRANS) |            |              |            |              |           |          |           |             | ΥII      |           |           |          |          |
|      |           |                 |        | •      |       | RUMBLE          | STRIPS     | STRIPS       | SHT TERM   | SHT TERM     |           |          |           | WHITE       |          |           |           | YEL      | LOW      |
|      |           |                 |        |        |       | STRIP           | (SHOULDER) | (CENTERLINE) | (TAB) TY W | (TAB) TY Y-2 | 6" (DOT)  | 6" (BRK) | 6" (SLD)  | 8" (DOT)    | 8" (SLD) | 18" (SLD) | 24" (SLD) | 6" (BRK) | 6" (SLD) |
|      | CONTROL   | CSJ 0095-08-021 | . ETC  |        |       | LF              | LF         | LF           | EA         | EA           | LF        | LF       | LF        | LF          | LF       | LF        | LF        | LF       | LF       |
| 1    | ANDERSON  | FM 2330         | 2195   | 02     | - 007 |                 |            | 37,952       |            | 3,170        |           |          | 75,850    |             |          |           | 176       | 16,440   | 57,242   |
| 2    | ANDERSON  | US 175          | 0198 - | 03     | - 036 |                 |            |              | 995        | 2,374        |           | 10,490   | 39,748    |             |          |           | 78        | 3,790    | 42,666   |
| 3    | ANDERSON  | SH 155          | 0520 - | 08     | - 072 |                 |            | 370          | 386        | 1,247        |           | 4,860    |           |             | 425      | 130       | 187       | 4,530    | 18,140   |
| 4    | ANDERSON  | FM 2961         | 3019 - | 01     | - 009 | 80              |            | 49,736       |            | 3,797        |           |          |           |             |          |           | 60        | 7,360    | 64,891   |
| 5    | CHEROKEE  | FM 235          | 1150 - | 02     | - 007 |                 |            |              | 15         | 3,003        |           |          | 67,154    |             | 174      |           | 265       | 3,150    | 55,329   |
| 6    | CHEROKEE  | FM 1857         | 1929 - | 01     | - 011 |                 |            |              |            | 3,926        |           |          | 108,862   |             |          |           | 196       | 7,970    | 66,563   |
| 7    | CHEROKEE  | US 69           | 0199 - | 03     | 044   |                 |            |              | 614        | 2,617        |           | 5,270    | 22,640    | 40          | 4,322    | 114       | 317       | 6,040    | 43,278   |
| 8    | CHEROKEE  | US 69           | 0199 - | 01     | - 088 |                 | 9,120      | 1,255        | 558        | 1,364        |           | 4,630    | 14,396    | 50          | 4,372    |           | 784       | 4,200    | 20,984   |
| 9    | CHEROKEE  | US 69           | 0199 - | 02     | 062   |                 |            |              | 126        | 392          |           | 1,600    | 6,410     |             | 115      |           | 48        |          | 7,842    |
| 10   | CHEROKEE  | FM 752          | 0345 - | . 09 - | - 011 |                 |            |              | 32         | 2,966        |           |          | 78,052    |             | 630      | 56        | 293       | 2,560    | 58,360   |
| 11   | CHEROKEE  | FM 752          | 2066 - | 01     | - 006 |                 |            |              |            | 3,424        |           |          | 67,800    |             |          |           | 155       | 350      | 67,963   |
| 12   | GREGG     | US 271          | 0165 - | 03     | - 039 |                 |            |              | 12         | 451          |           |          | 1,176     |             | 230      |           | 1,279     | 938      | 8,662    |
| 13   | GREGG     | US 271          | 0248 - | 06     | - 019 |                 |            |              | 33         | 528          |           |          |           |             | 667      |           | 590       | 1,560    | 8,226    |
| 14   | GREGG     | FM 2276         | 2159 - | 01     | - 009 |                 | 36,204     | 18,102       | 15         | 1,503        |           |          | 36,706    |             | 301      |           | 186       | 2,150    | 26,839   |
| 15   | GREGG     | FM 2011         | 1932 - | 01     | - 011 |                 |            |              |            | 2,748        |           |          | 34,275    |             |          |           | 403       | 3,160    | 50,229   |
| 16   | HENDERSON | SH 198          | 1668 - | 01     | - 022 |                 | 38,692     | 34,788       | 4          | 2,415        |           |          | 38,834    |             | 70       |           | 135       | 8,150    | 36,081   |
| 17   | HENDERSON | SH 198          | 0646 - | 1      | - 042 |                 | 20,098     | 10,049       |            | 1,021        |           |          | 10,047    |             |          |           | 54        |          | 10,212   |
| 18   | HENDERSON | SH 19           | 0108 - | 04     | - 042 |                 |            |              | 64         | 2,874        | 110       | 740      | 38,672    |             |          | 76        | 146       | 6,810    | 47,265   |
| 19   | HENDERSON | FM 59           | 0458 - |        | - 027 |                 | 42,476     | 22,523       | 75         | 2,455        |           |          | 43,452    |             | 1,308    |           | 147       | 430      | 48,450   |
| 20   | HENDERSON | BU175G          | 0198 - | -      | - 033 |                 | 10,476     | 8,654        | 258        | 906          |           | 3,150    | 10,730    |             | 443      |           | 101       | 1,100    | 16,478   |
| 21   | HENDERSON | RM 2329         | 2196 - |        | - 015 |                 | 74,288     | 37,144       |            | 3,121        |           |          | 74,876    |             |          |           | 95        | 3,960    | 56,480   |
| 22   | RUSK      | FM 2012         | 1933 - | -      | - 016 |                 |            |              |            | 3,579        |           |          | 83,496    |             |          |           | 498       | 4,180    | 65,309   |
| 23   | RUSK      | US 259          | 0138 - | -      | - 040 |                 | 108,644    |              | 1,194      | 2,793        |           | 13,610   | 57,454    | 330         | 3,344    |           | 255       |          | 55,854   |
| 24   | RUSK      | BU 259          | 0138 - | -      | - 041 |                 | 13,264     |              | 294        | 904          |           | 2,660    | 11,081    | 45          | 2,994    |           | 50        |          | 2,660    |
| 25   | RUSK      | FM 850          | 1163 - |        | - 033 |                 |            |              | 1,006      | 2,988        |           | 320      | 74,670    |             | 732      | 82        | 554       | 4,930    | 51,363   |
| 26   | SMITH     | SL 124          | 0245 - | 16     | - 008 |                 | 8,684      | 5,037        | 107        | 663          |           | 360      | 10,260    |             | 187      |           | 187       |          | 11,264   |
|      | SUBT      | OTALS (1 OF 10) | )      |        |       | 80              | 361,946    | 225,610      | 5,788      | 57,229       | 110       | 47,690   | 1,006,641 | 465         | 20,314   | 458       | 7,239     | 93,758   | 998,630  |

[\*] PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.



|      | 2024 | SHEET      | 4 OF      | 13        |  |  |  |  |
|------|------|------------|-----------|-----------|--|--|--|--|
| CONT | SECT | JOB        | н         | HIGHWAY   |  |  |  |  |
| 0095 | 08   | 021,Etc    | US 80,Etc |           |  |  |  |  |
| DIST |      | COUNTY     |           | SHEET NO. |  |  |  |  |
| TVI  |      | CMITH Etc. |           |           |  |  |  |  |

|             | (0 4 4 4 4 1 1 )   |
|-------------|--|
|             | VIII.  |
|             | 1  |
|             | ,,,  |
|             | 0  |
| 11:14:17 AM | CANADA VENTERAL CONTRACTOR CONTRA |
| 11:14       |  |
| 9/18/2023   |  |
| įij         | L  |

|                              |                              |                 |        |        |         |                 |            | PAVEMENT     | MARKING S  | SUMMARY (    | (2 OF 10) |          |           |            |          |           |           |              |           |
|------------------------------|------------------------------|-----------------|--------|--------|---------|-----------------|------------|--------------|------------|--------------|-----------|----------|-----------|------------|----------|-----------|-----------|--------------|-----------|
|                              |                              |                 |        |        |         | ITEM 6056       | ITEN       | 1 533        | ITEN       | 1 662        |           |          |           |            | ITEM 666 |           |           |              |           |
| REF.                         |                              |                 |        |        | - 1     | PREFORMED       | [*]        | [*]          | WK ZN      | WK ZN        |           |          | R         | EFL PAV MR | K        |           |           | REFL PAV MRK |           |
| NO.                          | COUNTY                       | ROADWAY         |        | CSJ    |         | IN-LANE (TRANS) | RUMBLE     | RUMBLE       | PAV MRK    | PAV MRK      |           |          |           | TY II      |          |           |           | т            | Y II      |
|                              |                              |                 |        |        |         | RUMBLE          | STRIPS     | STRIPS       | SHT TERM   | SHT TERM     |           | WHITE    |           |            |          |           | YEL       | LOW          |           |
|                              |                              |                 |        |        |         | STRIP           | (SHOULDER) | (CENTERLINE) | (TAB) TY W | (TAB) TY Y-2 | 6" (DOT)  | 6" (BRK) | 6" (SLD)  | 8" (DOT)   | 8" (SLD) | 18" (SLD) | 24" (SLD) | 6" (BRK)     | 6" (SLD)  |
| CONTROL CSJ 0095-08-021. ETC |                              |                 |        |        | LF      | LF              | LF         | EA           | EA         | LF           | LF        | LF       | LF        | LF         | LF       | LF        | LF        | LF           |           |
| 27                           | SMITH                        | SH 110          | 0505   | - 02 - | 048     |                 | 61,294     | 30,647       |            | 2,851        |           |          | 61,494    |            |          |           | 81        | 1,940        | 54,118    |
| 28                           | SMITH                        | FM 344          | 0927   | - 01 - | 034     |                 |            |              | 13         | 1,989        |           |          | 45,808    |            | 268      |           | 79        | 1,760        | 37,146    |
| 29                           | SMITH                        | FM 849          | 0429   | - 05 - | 003     |                 | 40,218     | 20,109       | 73         | 5,453        |           |          | 54,676    |            | 857      | 52        | 325       | 810          | 53,923    |
| 30                           | SMITH                        | FM 2015         | 1934   | - 02 - | 009     |                 | 39,800     | 32,668       | 66         | 2,986        |           |          | 65,304    | 110        | 522      |           | 242       | 3,560        | 54,380    |
| 31                           | SMITH                        | US 69           | 0190   | - 04 - | 041     |                 | 23,118     | 18,830       | 2,386      | 3,892        |           | 19,240   | 73,998    |            | 16,853   |           | 240       | 3,120        | 71,158    |
| 32                           | SMITH                        | SH 64           | 0245   | - 06 - | 090     |                 |            |              |            | 594          |           |          | 10,506    |            |          |           | 55        | 720          | 10,806    |
| 33                           | SMITH                        | SH 64           | 0245   | - 07 - | 031     |                 | 44,784     | 18,228       | 183        | 2,311        |           |          | 51,462    |            | 2,869    |           | 155       | 4,730        | 39,123    |
| 34                           | SMITH                        | US 80           | 0095   | - 08 - | 021     |                 | 15,632     | 2,788        | 331        | 856          |           | 4,110    | 16,640    |            | 361      |           | 42        |              | 17,120    |
| 35                           | VAN ZANDT                    | FM 47           | 0646   | - 01 - | 036     |                 |            |              | 15         | 1,934        |           |          | 54,394    |            | 141      |           | 248       | 3,850        | 32,912    |
| 36                           | VAN ZANDT                    | SH 110          | 0505   | - 01 - | 049     |                 |            |              |            | 2,463        |           |          | 54,744    |            |          |           | 102       | 1,590        | 46,869    |
| 37                           | VAN ZANDT                    | SH 243          | 0522   | - 02 - | 039     |                 | 131,774    | 65,887       | 187        | 4,569        |           |          | 128,622   | 150        | 1,745    | 64        | 1,592     | 13,720       | 70,801    |
| 38                           | VAN ZANDT                    | FM 773          | 1099   | - 04 - | 013     | 80              |            |              |            | 2,305        |           |          | 56,313    |            |          |           | 189       | 3,480        | 40,872    |
| 39                           | VAN ZANDT                    | US 80           | 0095   | - 07 - | 061     |                 | 35,005     | 4,976        | 1,526      | 3,234        |           | 17,020   | 65,020    |            | 980      |           | 154       | 410          | 64,064    |
| 40                           | VAN ZANDT                    | SH 19           | 0108   | - 01 - | 031     |                 | 77,380     | 38,690       | 42         | 2,876        |           |          | 79,526    |            | 830      |           | 278       | 6,450        | 47,844    |
| 41                           | WOOD                         | FM 852          | 0767   | - 04 - | 008     |                 |            |              | 23         | 4,811        |           |          | 108,902   |            | 230      |           | 321       | 4,420        | 89,588    |
| 42                           | WOOD                         | SH 154          | 0401   | - 02 - | 035     | 80              | 85,488     | 42,744       | 152        | 3,354        |           | 40       | 100,784   | 690        | 1,948    |           | 215       | 7,240        | 56,212    |
| 43                           | WOOD                         | FM 2896         | 2958   |        | 012     |                 |            |              |            | 3,550        |           |          | 84,950    |            |          |           | 162       | 5,850        | 62,218    |
| 44                           | WOOD                         | FM 779          | 1111 - |        | 015     |                 |            |              |            | 2,765        |           |          | 62,224    |            |          |           | 257       | 2,980        | 50,837    |
| 45                           | WOOD                         | US 80           | 0095   |        | 040     |                 | 32,625     | 7,960        | 952        | 3,329        |           | 12,040   | 52,834    |            | 979      |           | 388       |              | 66,582    |
| 46                           | WOOD                         | US 80           | 0096   | - 01 - | 047     |                 | 4,720      | 4,720        | 425        | 1,234        |           | 2,600    | 10,400    |            |          |           | 138       | 1,770        | 14,120    |
| 47                           | 7 WOOD FM 14 0492 - 03 - 04. |                 |        | 041    |         |                 |            | 628          | 1,950      | 358          | 7,010     | 26,370   | 644       | 940        | 130      | 648       | 610       | 38,094       |           |
|                              | SUBT                         | OTALS (2 OF 10) | )      |        |         | 160             | 591,838    | 288,247      | 7,002      | 59,306       | 358       | 62,060   | 1,264,971 | 1,594      | 29,523   | 246       | 5,911     | 69,010       | 1,018,787 |
|                              | SUBT                         | OTALS (1 OF 10) | )      |        |         | 80              | 361,946    | 225,610      | 5,788      | 57,229       | 110       | 47,690   | 1,006,641 | 465        | 20,314   | 458       | 7,239     | 93,758       | 998,630   |
|                              | PROJECT TOTALS 240 953,784   |                 |        |        | 513,857 | 12,790          | 116,535    | 468          | 109,750    | 2,271,612    | 2,059     | 49,837   | 704       | 13,150     | 162,768  | 2,017,417 |           |              |           |

[\*] PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.



|      | 2024 | SHEET       | 5 OF | 13        |  |  |  |  |
|------|------|-------------|------|-----------|--|--|--|--|
| CONT | SECT | JOB HIGHWAY |      |           |  |  |  |  |
| 0095 | 08   | 021,Etc     | US   | 5 80,Etc  |  |  |  |  |
| DIST |      | COUNTY      |      | SHEET NO. |  |  |  |  |
| TYL  |      | SMITH,Etc   |      | 23        |  |  |  |  |

|                           |           |                 |        |      |     |         | PA          | VEMENT MAR   | KING SUM | MARY (3 OF    | 10)             |                 |              |               |           |
|---------------------------|-----------|-----------------|--------|------|-----|---------|-------------|--------------|----------|---------------|-----------------|-----------------|--------------|---------------|-----------|
|                           |           |                 |        |      |     |         |             |              |          |               | ITEM 666        |                 |              |               |           |
| REF.                      |           |                 |        |      |     |         |             |              |          | RI            | FL PAV MRK      |                 |              |               |           |
| NO.                       | COUNTY    | ROADWAY         | (      | CSJ  |     |         |             |              |          |               | TY II           |                 |              |               |           |
|                           |           |                 |        |      |     |         |             |              |          |               | WHITE           |                 |              |               |           |
|                           |           |                 |        |      |     | (ARROW) | (DBL ARROW) | (LNDP ARROW) | (WORD)   | [1] (RR XING) | (18") (YLD TRI) | (36") (YLD TRI) | (BIKE ARROW) | (BIKE SYMBOL) | (ACC PRK) |
|                           | CONTROL   | CSJ 0095-08-021 | . ETC  |      |     | EA      | EA          | EA           | EA       | EA            | EA              | EA              | EA           | EA            | EA        |
| 1 ANDERSON FM 2330 2195 - |           |                 |        |      | 007 |         |             |              |          |               |                 |                 |              |               |           |
| 2                         | ANDERSON  | US 175          | 0198 - | 03 - | 036 | 38      |             |              | 20       |               |                 | 60              |              |               |           |
| 3                         | ANDERSON  | SH 155          | 0520 - | 08 - | 072 | 23      |             |              | 3        |               |                 |                 |              |               |           |
| 4                         | ANDERSON  | FM 2961         | 3019 - | 01 - | 009 |         |             |              |          |               |                 |                 |              |               |           |
| 5                         | CHEROKEE  | FM 235          | 1150 - | 02 - | 007 |         |             |              |          |               |                 |                 |              |               |           |
| 6                         | CHEROKEE  | FM 1857         | 1929 - | 01 - | 011 |         |             |              |          |               |                 |                 |              |               |           |
| 7                         | CHEROKEE  | US 69           | 0199 - | 03 - | 044 | 37      |             | 1            | 26       |               |                 | 50              |              |               |           |
| 8                         | CHEROKEE  | US 69           | 0199 - | 01 - | 088 | 35      |             |              | 24       |               |                 | 34              |              |               | 1         |
| 9                         | CHEROKEE  | US 69           | 0199 - | 02 - | 062 | 1       |             |              | 1        |               |                 |                 |              |               |           |
| 10                        | CHEROKEE  | FM 752          | 0345 - | 09 - | 011 |         |             |              |          |               |                 | 8               |              |               |           |
| 11                        | CHEROKEE  | FM 752          | 2066 - | 01 - | 006 |         |             |              |          |               |                 |                 |              |               |           |
| 12                        | GREGG     | US 271          |        |      | 039 | 8       |             |              | 2        | 2             |                 |                 |              |               |           |
| 13                        | GREGG     | US 271          | 0248 - | 06 - | 019 | 17      |             |              | 3        |               |                 |                 |              |               |           |
| 14                        | GREGG     | FM 2276         | 2159 - | 01 - | 009 |         |             |              |          |               |                 | 3               |              |               |           |
| 15                        | GREGG     | FM 2011         | 1932 - | 01 - | 011 |         |             |              |          |               |                 |                 |              |               |           |
| 16                        | HENDERSON | SH 198          | 1668 - | 01 - | 022 |         |             |              |          |               |                 |                 |              |               |           |
| 17                        | HENDERSON | SH 198          | 0646 - | 05 - | 042 |         |             |              |          |               |                 |                 |              |               |           |
| 18                        | HENDERSON | SH 19           | 0108 - | 04 - | 042 | 2       |             | 1            |          |               |                 |                 |              |               |           |
| 19                        | HENDERSON | FM 59           | 0458 - | 01 - | 027 |         |             |              |          |               |                 |                 |              |               |           |
| 20                        | HENDERSON | BU175G          | -      |      | 033 | 12      |             |              | 4        |               |                 |                 |              |               |           |
| 21                        | HENDERSON | RM 2329         |        |      | 015 |         |             |              |          | 2             |                 |                 |              |               |           |
| 22                        | RUSK      | FM 2012         |        |      | 016 |         |             |              |          | 2             |                 |                 |              |               |           |
| 23                        | RUSK      | US 259          |        |      | 040 | 8       | 2           | 1            | 8        |               |                 | 64              |              |               |           |
| 24                        | RUSK      | BU 259          |        | 02 - |     | 1       |             |              | 1        |               |                 |                 |              |               |           |
| 25                        | RUSK      | FM 850          | 1163 - | 02 - | 033 | 3       |             |              | 3        |               |                 | 10              |              |               |           |
| 26                        | SMITH     | SL 124          | 0245 - | 16 - | 008 | 6       |             |              | 6        |               |                 | 14              |              |               |           |
|                           | SUBTOTA   | ALS (3 OF 10)   |        |      |     | 191     | 2           | 3            | 101      | 6             |                 | 243             |              |               | 1         |

[1] 24" WHITE TRANSVERSE LINES ARE INCLUDED WITH ITEM, REFER TO RCD(1)-22



SEALCOAT

|      | 2024 | SHEET     | 6 OF      | 13        |  |  |  |
|------|------|-----------|-----------|-----------|--|--|--|
| CONT | SECT | JOB       |           | HIGHWAY   |  |  |  |
| 0095 | 08   | 021,Etc   | US 80,Etc |           |  |  |  |
| DIST |      | COUNTY    |           | SHEET NO. |  |  |  |
| TYL  |      | SMITH,Etc |           | 24        |  |  |  |

|           |                     |                |          |      |       |         | PA          | /EMENT MARI  | KING SUM | MARY (4 O | F 10)           |                 |              |               |           |
|-----------|---------------------|----------------|----------|------|-------|---------|-------------|--------------|----------|-----------|-----------------|-----------------|--------------|---------------|-----------|
|           |                     |                |          |      |       |         |             |              |          |           | ITEM 666        |                 |              |               |           |
| REF.      |                     |                |          |      |       |         |             |              |          | F         | REFL PAV MRK    |                 |              |               |           |
| NO.       | COUNTY              | ROADWAY        |          | csj  |       |         | TY II WHITE |              |          |           |                 |                 |              |               |           |
|           |                     |                |          |      |       |         |             |              |          |           |                 |                 |              |               |           |
|           |                     |                |          |      |       | (ARROW) | (DBL ARROW) | (LNDP ARROW) | (WORD)   | (RR XING) | (18") (YLD TRI) | (36") (YLD TRI) | (BIKE ARROW) | (BIKE SYMBOL) | (ACC PRK) |
|           | CONTROL             | CSJ 0095-08-02 | L. ETC   |      |       | EA      | EA          | EA           | EA       | EA        | EA              | EA              | EA           | EA            | EA        |
| 27        | SMITH               | SH 110         | 0505     | - 02 | - 048 |         |             |              |          |           |                 |                 |              |               |           |
| 28        | SMITH               | FM 344         | 0927     | - 01 | - 034 | 2       |             |              | 2        |           |                 |                 |              |               |           |
| 29        | SMITH               | FM 849         | 0429     | - 05 | - 003 | 4       |             |              | 4        |           |                 |                 |              |               |           |
| 30        | SMITH               | FM 2015        | 1934     | - 02 | - 009 | 12      | 2           |              | 4        |           |                 |                 |              |               |           |
| 31        | SMITH               | US 69          | 0190     | - 04 | - 041 | 86      |             |              | 78       |           |                 | 252             |              |               |           |
| 32        | SMITH               | SH 64          | 0245     | - 06 | - 090 |         |             |              |          |           |                 |                 |              |               |           |
| 33        | SMITH               | SH 64          | 0245     | - 07 | - 031 | 2       |             |              | 1        |           |                 | 26              |              |               |           |
| 34        | SMITH               | US 80          | 0095     | - 08 | - 021 | 2       |             |              | 2        |           |                 | 14              |              |               |           |
| 35        | VAN ZANDT           | FM 47          | 0646     | - 01 | - 036 | 5       |             |              | 1        |           |                 |                 |              |               |           |
| 36        | VAN ZANDT           | SH 110         | 0505     | - 01 | - 049 |         |             |              |          |           |                 |                 |              |               |           |
| <i>37</i> | VAN ZANDT           | SH 243         | 0522     | - 02 | - 039 | 16      |             |              | 6        |           |                 | 24              |              |               |           |
| 38        | VAN ZANDT           | FM 773         | 1099     | - 04 | - 013 |         |             |              |          |           |                 |                 |              |               |           |
| 39        | VAN ZANDT           | US 80          | 0095     | - 07 | - 061 | 2       |             |              |          |           |                 | 12              |              |               |           |
| 40        | VAN ZANDT           | SH 19          | 0108     | - 01 | - 031 |         |             |              |          |           |                 | 12              |              |               |           |
| 41        | WOOD                | FM 852         | 0767     | - 04 | - 008 | 2       |             |              | 2        |           |                 |                 |              |               |           |
| 42        | WOOD                | SH 154         | 0401     | - 02 | - 035 | 5       | 1           | 1            | 7        |           |                 |                 |              |               |           |
| 43        | WOOD                | FM 2896        | 2958     | - 02 | - 012 |         |             |              |          |           |                 |                 |              |               |           |
| 44        | WOOD                | FM 779         | 1111     | - 01 | - 015 |         |             |              | 2        |           |                 |                 |              |               |           |
| 45        | WOOD                | US 80          | 0095     | - 09 | - 040 | 12      |             |              | 12       |           |                 |                 |              |               |           |
| 46        | WOOD                | US 80          | 0096     | - 01 | - 047 | 10      |             |              |          |           |                 |                 |              |               |           |
| 47        | WOOD                | FM 14          | 0492     |      | - 041 | 2       |             | 2            | 2        | 4         |                 |                 |              |               |           |
|           | USE AS DIRE         | CTED           | 0095     | - 08 | - 021 |         |             |              |          |           | 10              |                 | 2            | 2             |           |
|           |                     |                | <u> </u> |      |       |         | _           | _            |          | -         |                 |                 | _            |               |           |
|           |                     | OTALS (4 OF 10 | -        |      |       | 162     | 3           | 3            | 123      | 4         | 10              | 340             | 2            | 2             |           |
|           | SUBTOTALS (3 OF 10) |                |          |      |       | 191     | 2           | 3            | 101      | 6         |                 | 243             |              |               | 1         |
|           | PR                  | OJECT TOTALS   |          |      |       | 353     | 5           | 6            | 224      | 10        | 10              | 583             | 2            | 2             | 1         |



|      | 2024 | SHEET     | 7 OF | 13        |  |  |  |  |
|------|------|-----------|------|-----------|--|--|--|--|
| CONT | SECT | JOB       | ,    | HIGHWAY   |  |  |  |  |
| 0095 | 08   | 021,Etc   | US   | US 80,Etc |  |  |  |  |
| DIST |      | COUNTY    |      | SHEET NO. |  |  |  |  |
| TYI  |      | SMITH Etc |      | 25        |  |  |  |  |

|            | ٠,                                     |
|------------|--|
|            | \\d0618253\US80 08 021 GEN QUANTITY \$ |
|            | GEN                                    |
|            | 021                                    |
|            | 90                                     |
|            | 3\US80                                 |
|            | 0618253                                |
|            | 900                                    |
|            | edmond\                                |
| Σ          | ye.r                                   |
| 1:14:23 AM | e\txdot3\rye.redmond\d                 |
| 11         | w online!                              |
| 9/18/2023  | c:\txdot\pw                            |
| 6          | C:                                     |
| įij        | úi                                     |

|             |           |                 |                 |                          |                          | PAVEME                    | NT MARKIN                 | IG SUMMAR                     | Y (5 OF 10                   | )                               |                               |                            |                            |                               |                               |
|-------------|-----------|-----------------|-----------------|--------------------------|--------------------------|---------------------------|---------------------------|-------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|----------------------------|-------------------------------|-------------------------------|
|             |           |                 |                 |                          |                          |                           | ITEM                      | 1 666                         |                              |                                 |                               |                            | ITEM                       | 1 672                         |                               |
| REF.<br>NO. | COUNTY    | ROADWAY         | csj             | PAVEMENT<br>SEALER<br>6" | PAVEMENT<br>SEALER<br>8" | PAVEMENT<br>SEALER<br>12" | PAVEMENT<br>SEALER<br>24" | PAVEMENT<br>SEALER<br>(ARROW) | PAVEMENT<br>SEALER<br>(WORD) | PAVEMENT<br>SEALER<br>(RR XING) | PAVEMENT<br>SEALER<br>YLD TRI | REFL PAV<br>MRKR<br>TY I-A | REFL PAV<br>MRKR<br>TY I-C | REFL PAV<br>MRKR<br>TY II-A-A | REFL PAV<br>MRKR<br>TY II-C-R |
|             | CONTROL   | CSJ 0095-08-021 | . ETC           | LF                       | LF                       | LF                        | LF                        | EA                            | EA                           | EA                              | EA                            | EA                         | EA                         | EA                            | EA                            |
| 1           | ANDERSON  | FM 2330         | 2195 - 02 - 007 |                          |                          |                           |                           |                               |                              |                                 |                               | 148                        |                            | 919                           |                               |
| 2           | ANDERSON  | US 175          | 0198 - 03 - 036 | 823                      | 128                      | 170                       | 30                        | 1                             | 1                            |                                 |                               | 195                        | 212                        | 410                           | 313                           |
| 3           | ANDERSON  | SH 155          | 0520 - 08 - 072 | 1,152                    | 234                      | 360                       | 72                        | 4                             |                              |                                 |                               |                            | 279                        | 640                           |                               |
| 4           | ANDERSON  | FM 2961         | 3019 - 01 - 009 | 340                      |                          |                           |                           |                               |                              |                                 |                               | 72                         |                            | 1,188                         |                               |
| 5           | CHEROKEE  | FM 235          | 1150 - 02 - 007 |                          |                          |                           |                           |                               |                              |                                 |                               | 85                         | 35                         | 996                           |                               |
| 6           | CHEROKEE  | FM 1857         | 1929 - 01 - 011 |                          |                          |                           |                           |                               |                              |                                 |                               | 64                         |                            | 1,069                         |                               |
| 7           | CHEROKEE  | US 69           | 0199 - 03 - 044 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 645                        | 757                           | 73                            |
| 8           | CHEROKEE  | US 69           | 0199 - 01 - 088 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 448                        | 831                           | 128                           |
| 9           | CHEROKEE  | US 69           | 0199 - 02 - 062 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 84                         | 98                            |                               |
| 10          | CHEROKEE  | FM 752          | 0345 - 09 - 011 |                          |                          |                           |                           |                               |                              |                                 |                               | 192                        | 130                        | 1,024                         |                               |
| 11          | CHEROKEE  | FM 752          | 2066 - 01 - 006 |                          |                          |                           |                           |                               |                              |                                 |                               | 69                         |                            | 832                           |                               |
| 12          | GREGG     | US 271          | 0165 - 03 - 039 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 12                         | 184                           |                               |
| 13          | GREGG     | US 271          | 0248 - 06 - 019 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 85                         | 246                           |                               |
| 14          | GREGG     | FM 2276         | 2159 - 01 - 009 |                          |                          |                           |                           |                               |                              |                                 |                               | 342                        | 54                         | 396                           |                               |
| 15          | GREGG     | FM 2011         | 1932 - 01 - 011 |                          |                          |                           |                           |                               |                              |                                 |                               | 389                        |                            | 808                           |                               |
| 16          | HENDERSON | SH 198          | 1668 - 01 - 022 |                          |                          |                           |                           |                               |                              |                                 |                               | 67                         | 5                          | 379                           |                               |
| 17          | HENDERSON | SH 198          | 0646 - 05 - 042 |                          |                          |                           |                           |                               |                              |                                 |                               |                            |                            | 261                           |                               |
| 18          | HENDERSON | SH 19           | 0108 - 04 - 042 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 51                         | 854                           |                               |
| 19          | HENDERSON | FM 59           | 0458 - 01 - 027 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 186                        | 871                           |                               |
| 20          | HENDERSON | BU175G          | 0198 - 01 - 033 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 29                         | 532                           |                               |
| 21          | HENDERSON | RM 2329         | 2196 - 01 - 015 |                          |                          |                           |                           |                               |                              |                                 |                               | 65                         |                            | 883                           |                               |
| 22          | RUSK      | FM 2012         | 1933 - 02 - 016 |                          |                          |                           |                           |                               |                              |                                 |                               | 138                        |                            | 983                           |                               |
| 23          | RUSK      | US 259          | 0138 - 02 - 040 | 1,086                    | 543                      |                           |                           |                               |                              |                                 |                               |                            | 103                        |                               | 824                           |
| 24          | RUSK      | BU 259          | 0138 - 02 - 041 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 45                         |                               | 116                           |
| 25          | RUSK      | FM 850          | 1163 - 02 - 033 |                          |                          |                           |                           |                               |                              |                                 |                               | 174                        | 84                         | 1,085                         |                               |
| 26          | SMITH     | SL 124          | 0245 - 16 - 008 |                          |                          |                           |                           |                               |                              |                                 |                               | 128                        | 132                        | 272                           |                               |
|             | SUBTOTA   | LS (5 OF 10)    |                 | 3,401                    | 905                      | 530                       | 102                       | 5                             | 1                            |                                 |                               | 2,128                      | 2,619                      | 16,518                        | 1,454                         |



|      | 2024 | SHEET     | 8 OF    | 13        |  |
|------|------|-----------|---------|-----------|--|
| CONT | SECT | JOB       | HIGHWAY |           |  |
| 0095 | 08   | 021,Etc   | US      | 80,Etc    |  |
| DIST |      | COUNTY    |         | SHEET NO. |  |
| TYL  |      | SMITH.Etc |         | 26        |  |

| 9/18/2023 |
|-----------|
|           |

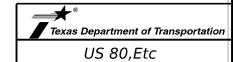
|                | PAVEMENT MARKING SUMMARY (6 OF 10) |                 |             |     |                          |                          |                           |                           |                               |                              |                                 |                               |                            |                            |                               |                               |
|----------------|------------------------------------|-----------------|-------------|-----|--------------------------|--------------------------|---------------------------|---------------------------|-------------------------------|------------------------------|---------------------------------|-------------------------------|----------------------------|----------------------------|-------------------------------|-------------------------------|
|                |                                    |                 |             |     | ITEM 666                 |                          |                           |                           |                               |                              |                                 |                               | ITEM 672                   |                            |                               |                               |
| REF.<br>NO.    | COUNTY                             | ROADWAY         | csj         |     | PAVEMENT<br>SEALER<br>6" | PAVEMENT<br>SEALER<br>8" | PAVEMENT<br>SEALER<br>12" | PAVEMENT<br>SEALER<br>24" | PAVEMENT<br>SEALER<br>(ARROW) | PAVEMENT<br>SEALER<br>(WORD) | PAVEMENT<br>SEALER<br>(RR XING) | PAVEMENT<br>SEALER<br>YLD TRI | REFL PAV<br>MRKR<br>TY I-A | REFL PAV<br>MRKR<br>TY I-C | REFL PAV<br>MRKR<br>TY II-A-A | REFL PAV<br>MRKR<br>TY II-C-R |
|                | CONTROL CSJ 0095-08-021. ETC       |                 |             | LF  | LF                       | LF                       | LF                        | EA                        | EA                            | EA                           | EA                              | EA                            | EA                         | EA                         | EA                            |                               |
| 27             | SMITH                              | SH 110          | 0505 - 02 - |     |                          |                          |                           |                           |                               |                              |                                 |                               | 72                         |                            | 741                           |                               |
| 28             | SMITH                              | FM 344          | 0927 - 01 - | 034 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 16                         | 807                           |                               |
| 29             | SMITH                              | FM 849          | 0429 - 05 - | 003 | 2,125                    | 161                      |                           |                           | 1                             | 1                            |                                 |                               | 69                         | 279                        | 759                           |                               |
| 30             | SMITH                              | FM 2015         | 1934 - 02 - | 009 |                          |                          |                           |                           |                               |                              |                                 |                               | 130                        | 36                         | 679                           |                               |
| 31             | SMITH                              | US 69           | 0190 - 04 - | 041 | 560                      |                          |                           |                           |                               |                              |                                 |                               |                            | 933                        | 672                           | 679                           |
| 32             | SMITH                              | SH 64           | 0245 - 06 - | 090 |                          |                          |                           |                           |                               |                              |                                 |                               |                            |                            | 256                           |                               |
| 33             | SMITH                              | SH 64           | 0245 - 07 - | 031 | 1,100                    | 220                      |                           |                           | 1                             |                              |                                 |                               |                            | 532                        | 1,148                         |                               |
| 34             | SMITH                              | US 80           | 0095 - 08 - | 021 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 85                         | 174                           | 188                           |
| 35             | VAN ZANDT                          | FM 47           | 0646 - 01 - | 036 |                          |                          |                           |                           |                               |                              |                                 |                               | 65                         | 10                         | 675                           |                               |
| 36             | VAN ZANDT                          | SH 110          | 0505 - 01 - | 049 |                          |                          |                           |                           |                               |                              |                                 |                               |                            |                            | 722                           |                               |
| 37             | VAN ZANDT                          | SH 243          | 0522 - 02 - | 039 | 268                      | 232                      | 176                       | 56                        |                               |                              |                                 |                               | 192                        | 142                        | 1,681                         |                               |
| 38             | VAN ZANDT                          | FM 773          | 1099 - 04 - | 013 |                          |                          |                           |                           |                               |                              |                                 |                               | 256                        |                            | 488                           |                               |
| 39             | VAN ZANDT                          | US 80           | 0095 - 07 - | 061 |                          |                          |                           |                           |                               |                              |                                 |                               |                            | 36                         | 165                           | 751                           |
| 40             | VAN ZANDT                          | SH 19           | 0108 - 01 - | 031 |                          |                          |                           |                           |                               |                              |                                 |                               | 64                         | 166                        | 1,383                         |                               |
| 41             | WOOD                               | FM 852          | 0767 - 04 - | 008 |                          |                          |                           |                           |                               |                              |                                 |                               | 151                        | 31                         | 1,388                         |                               |
| 42             | WOOD                               | SH 154          | 0401 - 02 - | 035 | 8,580                    |                          |                           |                           |                               |                              |                                 |                               | 128                        | 144                        | 1,385                         |                               |
| 43             | WOOD                               | FM 2896         |             | 012 |                          |                          |                           |                           |                               |                              |                                 |                               | 512                        |                            | 1,175                         |                               |
| 44             | WOOD                               | FM 779          |             | 015 |                          |                          |                           |                           |                               |                              |                                 |                               | 64                         |                            | 704                           |                               |
| 45             | WOOD                               | US 80           | 0095 - 09 - | 040 | 285                      |                          |                           |                           |                               |                              |                                 |                               | 66                         | 725                        | 325                           | 99                            |
| 46             | WOOD                               | US 80           |             | 047 |                          |                          |                           |                           |                               |                              |                                 |                               | 64                         | 130                        | 548                           |                               |
| 47             | WOOD                               | FM 14           | 0492 - 03 - | 041 |                          |                          |                           |                           |                               |                              |                                 |                               | 69                         | 443                        | 1,011                         |                               |
|                | USE AS DIREC                       | CTED            | 0095 - 08 - | 021 |                          |                          |                           |                           |                               |                              | 2                               | 5                             |                            |                            |                               |                               |
|                |                                    |                 |             |     |                          |                          |                           |                           |                               |                              |                                 |                               |                            |                            |                               |                               |
|                | SUBTOTALS (6 OF 10)                |                 |             |     | 12,918                   | 613                      | 176                       | 56                        | 2                             | 1                            | 2                               | 5                             | 1,902                      | 3,708                      | 16,886                        | 1,717                         |
|                | SUBT                               | OTALS (5 OF 10) |             |     | 3,401                    | 905                      | 530                       | 102                       | 5                             | 1                            |                                 |                               | 2,128                      | 2,619                      | 16,518                        | 1,454                         |
| PROJECT TOTALS |                                    |                 |             |     | 16,319                   | 1,518                    | 706                       | 158                       | 7                             | 2                            | 2                               | 5                             | 4,030                      | 6,327                      | 33,404                        | 3,171                         |



|      | 2024 | SHEET     | 9 OF      | 13        |  |
|------|------|-----------|-----------|-----------|--|
| CONT | SECT | JOB       | HIGHWAY   |           |  |
| 0095 | 08   | 021,Etc   | US 80,Etc |           |  |
| DIST |      | COUNTY    |           | SHEET NO. |  |
| TYL  |      | SMITH.Etc |           | 27        |  |

| PAVEMENT MARKING SUMMARY (7 OF 10) |                     |         |      |      |       |             |             |             |             |          |          |           |                 |                |
|------------------------------------|---------------------|---------|------|------|-------|-------------|-------------|-------------|-------------|----------|----------|-----------|-----------------|----------------|
|                                    |                     |         |      |      |       |             |             |             |             | ITEM 677 |          |           |                 |                |
| REF.                               |                     |         |      |      |       | ELIM        | ELIM        | ELIM        | ELIM        | ELIM EXT | ELIM EXT | ELIM EXT  | ELIM            | [*] ELIM       |
| NO.                                | COUNTY              | ROADWAY |      | csj  |       | EXT PAV     | EXT PAV     | EXT PAV     | EXT PAV     | PAV MRK  | PAV MRK  | PAV MRK   | EXT PAV         | EXT PAV        |
|                                    |                     |         |      |      |       | MRK & MARKS | MRK & MARKS | MRK & MARKS | MRK & MARKS | & MRKS   | & MRKS   | & MRKS    | MRK & MARKS     | MRK & MARKS    |
|                                    |                     |         |      |      |       | (4")        | (8")        | (12")       | (24")       | (ARROW)  | (WORD)   | (RR XING) | (36") (YLD TRI) | (RUMBLE STRIP) |
| CONTROL CSJ 0095-08-021. ETC       |                     |         |      |      | LF    | LF          | LF          | LF          | LF          | LF       | EA       | EA        | LF              |                |
| 1                                  | ANDERSON            | FM 2330 | 2195 | - 02 | - 007 |             |             |             |             |          |          |           |                 |                |
| 2                                  | ANDERSON            | US 175  | 0198 | - 03 | - 036 | 823         | 128         | 170         | 30          | 1        | 1        |           |                 |                |
| 3                                  | ANDERSON            | SH 155  | 0520 | - 08 | - 072 | 1,152       | 234         | 360         | 72          | 4        |          |           |                 |                |
| 4                                  | ANDERSON            | FM 2961 | 3019 | - 01 | - 009 | 340         |             |             |             |          |          |           |                 |                |
| 5                                  | CHEROKEE            | FM 235  | 1150 | - 02 | - 007 |             |             |             |             |          |          |           |                 | 2,605          |
| 6                                  | CHEROKEE            | FM 1857 | 1929 | - 01 | - 011 |             |             |             |             |          |          |           |                 |                |
| 7                                  | CHEROKEE            | US 69   | 0199 | - 03 | - 044 |             |             |             |             |          |          |           |                 |                |
| 8                                  | CHEROKEE            | US 69   | 0199 | - 01 | - 088 |             |             |             |             |          |          |           |                 |                |
| 9                                  | CHEROKEE            | US 69   | 0199 | - 02 | - 062 |             |             |             |             |          |          |           |                 |                |
| 10                                 | CHEROKEE            | FM 752  | 0345 | - 09 | - 011 |             |             |             |             |          |          |           |                 |                |
| 11                                 | CHEROKEE            | FM 752  | 2066 | - 01 | - 006 |             |             |             |             |          |          |           |                 |                |
| 12                                 | GREGG               | US 271  | 0165 | - 03 | - 039 |             |             |             |             |          |          |           |                 |                |
| 13                                 | GREGG               | US 271  | 0248 | - 06 | - 019 |             |             |             |             |          |          |           |                 |                |
| 14                                 | GREGG               | FM 2276 | 2159 | - 01 | - 009 |             |             |             |             |          |          |           |                 |                |
| 15                                 | GREGG               | FM 2011 | 1932 | - 01 | - 011 |             |             |             |             |          |          |           |                 |                |
| 16                                 | HENDERSON           | SH 198  | 1668 | - 01 | - 022 |             |             |             |             |          |          |           |                 |                |
| 17                                 | HENDERSON           | SH 198  | 0646 | - 05 | - 042 |             |             |             |             |          |          |           |                 |                |
| 18                                 | HENDERSON           | SH 19   | 0108 | - 04 | - 042 |             |             |             |             |          |          |           |                 |                |
| 19                                 | HENDERSON           | FM 59   | 0458 | - 01 | - 027 |             |             |             |             |          |          |           |                 | 42,124         |
| 20                                 | HENDERSON           | BU175G  | 0198 | - 01 | - 033 |             |             |             |             |          |          |           |                 |                |
| 21                                 | HENDERSON           | RM 2329 | 2196 | - 01 | - 015 |             |             |             |             |          |          |           |                 | 11,476         |
| 22                                 | RUSK                | FM 2012 | 1933 | - 02 | - 016 |             |             |             |             |          |          |           |                 |                |
| 23                                 | RUSK                | US 259  | 0138 | - 02 | - 040 | 1,086       | 543         |             |             |          |          |           |                 |                |
| 24                                 | RUSK                | BU 259  | 0138 | - 02 | - 041 |             |             |             |             |          |          |           |                 |                |
| 25                                 | RUSK                | FM 850  | 1163 | - 02 | - 033 |             |             |             |             |          |          |           |                 | 72,600         |
| 26                                 | SMITH               | SL 124  | 0245 | - 16 | - 008 |             |             |             |             |          |          |           |                 |                |
|                                    | SUBTOTALS (7 OF 10) |         |      |      | 3,401 | 905         | 530         | 102         | 5           | 1        |          |           | 128,805         |                |

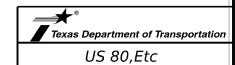
[\*] PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.



|      | 2024 | SHEET     | 100F      | 13        |  |
|------|------|-----------|-----------|-----------|--|
| CONT | SECT | JOB       |           | HIGHWAY   |  |
| 0095 | 08   | 021,Etc   | US 80,Etc |           |  |
| DIST |      | COUNTY    |           | SHEET NO. |  |
| TYL  |      | SMITH,Etc |           | 28        |  |

|                     |                                |                 |        |     |       |             | PAVEME      | ENT MARKING | SUMMARY (8  | 3 OF 10) |          |           |                 |                |
|---------------------|--------------------------------|-----------------|--------|-----|-------|-------------|-------------|-------------|-------------|----------|----------|-----------|-----------------|----------------|
|                     |                                |                 |        |     |       |             |             |             |             | ITEM 677 |          |           |                 |                |
| REF.                |                                |                 |        |     |       | ELIM        | ELIM        | ELIM        | ELIM        | ELIM EXT | ELIM EXT | ELIM EXT  | ELIM            | [*] ELIM       |
| NO.                 | COUNTY                         | ROADWAY         |        | csj |       | EXT PAV     | EXT PAV     | EXT PAV     | EXT PAV     | PAV MRK  | PAV MRK  | PAV MRK   | EXT PAV         | EXT PAV        |
|                     |                                |                 |        |     |       | MRK & MARKS | MRK & MARKS | MRK & MARKS | MRK & MARKS | & MRKS   | & MRKS   | & MRKS    | MRK & MARKS     | MRK & MARKS    |
|                     |                                |                 |        |     |       | (4")        | (8")        | (12")       | (24")       | (ARROW)  | (WORD)   | (RR XING) | (36") (YLD TRI) | (RUMBLE STRIP) |
|                     | CONTROL                        | CSJ 0095-08-021 | . ETC  |     |       | LF          | LF          | LF          | LF          | LF       | LF       | EA        | EA              | LF             |
| 27                  | SMITH                          | SH 110          | 0505 - | 02  | - 048 |             |             |             |             |          |          |           |                 | 74,118         |
| 28                  | SMITH                          | FM 344          | 0927 - | 01  | - 034 |             |             |             |             |          |          |           |                 | 1,020          |
| 29                  | SMITH                          | FM 849          | 0429 - | 05  | - 003 | 2,125       | 161         |             |             | 1        | 1        |           |                 |                |
| 30                  | SMITH                          | FM 2015         | 1934 - | 02  | - 009 |             |             |             |             |          |          |           |                 | 70,502         |
| 31                  | SMITH                          | US 69           | 0190 - | 04  | - 041 | 560         |             |             |             |          |          |           |                 | 238,647        |
| 32                  | SMITH                          | SH 64           | 0245 - | 06  | - 090 |             |             |             |             |          |          |           |                 |                |
| 33                  | SMITH                          | SH 64           | 0245 - | 07  | - 031 | 1,100       | 220         |             |             | 1        |          |           |                 | 88,637         |
| 34                  | SMITH                          | US 80           | 0095 - | 08  | - 021 |             |             |             |             |          |          |           |                 | 30,256         |
| 35                  | VAN ZANDT                      | FM 47           | 0646 - | 01  | - 036 |             |             |             |             |          |          |           |                 | 92,753         |
| 36                  | VAN ZANDT                      | SH 110          | 0505 - | 01  | - 049 |             |             |             |             |          |          |           |                 |                |
| 37                  | VAN ZANDT                      | SH 243          | 0522 - | 02  | - 039 | 268         | 232         | 176         | 56          |          |          |           |                 | 211,140        |
| 38                  | VAN ZANDT                      | FM 773          | 1099 - | 04  | - 013 |             |             |             |             |          |          |           |                 | 6,760          |
| 39                  | VAN ZANDT                      | US 80           | 0095 - | 07  | - 061 |             |             |             |             |          |          |           |                 |                |
| 40                  | VAN ZANDT                      | SH 19           | 0108 - | 01  | - 031 |             |             |             |             |          |          |           |                 |                |
| 41                  | WOOD                           | FM 852          | 0767 - | 04  | - 008 |             |             |             |             |          |          |           |                 |                |
| 42                  | WOOD                           | SH 154          | 0401 - | 02  | - 035 | 8,580       |             |             |             |          |          |           |                 | 154,267        |
| 43                  | WOOD                           | FM 2896         | 2958 - | 02  | - 012 |             |             |             |             |          |          |           |                 | 29,234         |
| 44                  | WOOD                           | FM 779          | 1111 - | 01  | - 015 |             |             |             |             |          |          |           |                 | 52,567         |
| 45                  | WOOD                           | US 80           | 0095   | 09  | 040   | 285         |             |             |             |          |          |           |                 | 114,728        |
| 46                  | WOOD                           | US 80           | 0096   | 01  | 047   |             |             |             |             |          |          |           |                 |                |
| 47                  | WOOD                           | FM 14           | 0492 - | 03  | - 041 |             |             |             |             |          |          |           |                 |                |
|                     | USE AS DIRECTED 0095 - 08 - 02 |                 |        |     | - 021 |             |             |             |             |          |          | 2         | 5               |                |
| SUBTOTALS (8 OF 10) |                                |                 |        |     |       | 12,918      | 613         | 176         | 56          | 2        | 1        | 2         | 5               | 1,164,629      |
|                     | SUBT                           | OTALS (7 OF 10) | )      |     |       | 3,401       | 905         | 530         | 102         | 5        | 1        |           |                 | 128,805        |
|                     | PR                             | OJECT TOTALS    |        |     |       | 16,319      | 1,518       | 706         | 158         | 7        | 2        | 2         | 5               | 1,293,434      |

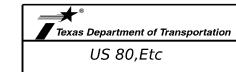
[\*] PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.



QUANTITY SUMMARY SEALCOAT

|      | 2024 | SHEET     | 11 ( | OF 13     |
|------|------|-----------|------|-----------|
| CONT | SECT | JOB       |      | HIGHWAY   |
| 0095 | 08   | 021,Etc   |      | US 80,Etc |
| DIST |      | COUNTY    |      | SHEET NO. |
| TYI  |      | SMITH Etc |      | 20        |

|      |           |                 |                         |      |       | P.A       | VEMENT MA | RKING SUMM | ARY (9 OF 10 | )         |           |           |                 |
|------|-----------|-----------------|-------------------------|------|-------|-----------|-----------|------------|--------------|-----------|-----------|-----------|-----------------|
|      |           |                 |                         |      |       |           |           |            | ITEM         | 1 678     |           |           |                 |
| REF. |           |                 |                         |      |       | PAVEMENT  | PAVEMENT  | PAVEMENT   | PAVEMENT     | PAVEMENT  | PAVEMENT  | PAVEMENT  | PAVEMENT        |
| NO.  | COUNTY    | ROADWAY         |                         | CSJ  |       | SURF PREP | SURF PREP | SURF PREP  | SURF PREP    | SURF PREP | SURF PREP | SURF PREP | SURF PREP       |
|      |           |                 |                         |      |       | FOR MRK   | FOR MRK   | FOR MRK    | FOR MRK      | FOR MRK   | FOR MRK   | FOR MRK   | FOR MRK         |
|      |           |                 |                         |      |       | (6")      | (8")      | (12")      | (24")        | (ARROW)   | (WORD)    | (RR XING) | (36") (YLD TRI) |
|      | CONTROL   | CSJ 0095-08-021 | <br>6J 0095-08-021. ETC |      |       | LF        | LF        | LF         | LF           | EA        | EA        | EA        | EA              |
| 1    | ANDERSON  | FM 2330         | 2195                    | - 02 | - 002 | 7         |           |            |              |           |           |           |                 |
| 2    | ANDERSON  | US 175          | 0198 - 03 - 036         |      |       | 823       | 128       | 170        | 30           | 1         | 1         |           |                 |
| 3    | ANDERSON  | SH 155          | 0520                    | - 08 | - 072 | 2 1,152   | 234       | 360        | 72           | 4         |           |           |                 |
| 4    | ANDERSON  | FM 2961         | 3019                    | - 01 | - 009 | 9 340     |           |            |              |           |           |           |                 |
| 5    | CHEROKEE  | FM 235          | 1150                    | - 02 | - 007 | 7         |           |            |              |           |           |           |                 |
| 6    | CHEROKEE  | FM 1857         | 1929                    | - 01 | - 01. | 1         |           |            |              |           |           |           |                 |
| 7    | CHEROKEE  | US 69           | 0199                    | - 03 | - 044 | 4         |           |            |              |           |           |           |                 |
| 8    | CHEROKEE  | US 69           | 0199                    | - 01 | - 088 | 3         |           |            |              |           |           |           |                 |
| 9    | CHEROKEE  | US 69           | 0199                    | - 02 | - 062 | 2         |           |            |              |           |           |           |                 |
| 10   | CHEROKEE  | FM 752          | 0345                    | - 09 | - 01. | 1         |           |            |              |           |           |           |                 |
| 11   | CHEROKEE  | FM 752          | 2066                    | - 01 | - 000 | 5         |           |            |              |           |           |           |                 |
| 12   | GREGG     | US 271          | 0165                    | - 03 | - 039 | 9         |           |            |              |           |           |           |                 |
| 13   | GREGG     | US 271          | 0248                    | - 06 | - 019 | 9         |           |            |              |           |           |           |                 |
| 14   | GREGG     | FM 2276         | 2159                    | - 01 | - 009 | 9         |           |            |              |           |           |           |                 |
| 15   | GREGG     | FM 2011         | 1932                    | - 01 | - 01. | 1         |           |            |              |           |           |           |                 |
| 16   | HENDERSON | SH 198          | 1668                    | - 01 | - 022 | 2         |           |            |              |           |           |           |                 |
| 17   | HENDERSON | SH 198          | 0646                    | - 05 | - 042 | 2         |           |            |              |           |           |           |                 |
| 18   | HENDERSON | SH 19           | 0108                    | - 04 | - 042 | 2         |           |            |              |           |           |           |                 |
| 19   | HENDERSON | FM 59           | 0458                    | - 01 | - 027 | 7         |           |            |              |           |           |           |                 |
| 20   | HENDERSON | BU175G          | 0198                    | - 01 | - 033 | 3         |           |            |              |           |           |           |                 |
| 21   | HENDERSON | RM 2329         | 2196                    | - 01 | - 01  | 5         |           |            |              |           |           |           |                 |
| 22   | RUSK      | FM 2012         | 1933                    | - 02 | - 016 | 5         |           |            |              |           |           |           |                 |
| 23   | RUSK      | US 259          | 0138                    | - 02 | - 040 | 1,086     | 543       |            |              |           |           |           |                 |
| 24   | RUSK      | BU 259          | 0138                    | - 02 | - 04  | 1         |           |            |              |           |           |           |                 |
| 25   | RUSK      | FM 850          | 1163                    | 02   | 033   | 3         |           |            |              |           |           |           |                 |
| 26   | SMITH     | SL 124          | 0245                    | - 16 | - 008 | 3         |           |            |              |           |           |           |                 |
|      | SUBT      | OTALS (9 OF 10) |                         | •    | •     | 3,401     | 905       | 530        | 102          | 5         | 1         |           |                 |



QUANITITY SUMMARY SEALCOAT

|      | 2024 | SHEET :   | 12 ( | OF 13     |
|------|------|-----------|------|-----------|
| CONT | SECT | JOB       |      | HIGHWAY   |
| 0095 | 08   | 021,Etc   |      | US 80,Etc |
| DIST |      | COUNTY    |      | SHEET NO. |
| TYI  |      | SMITH Ftc |      | 30        |

| TE: | TE: 9/18/2023 | 11:14:33 AM  |     |      |     |          |       |
|-----|---------------|--|-----|------|-----|----------|-------|
| Ë:  | c:\txdot\pw   | pw online\txdot3\rye.redmond\d0618253\US80 08 021 GEN QUANTITY SUMMA | 080 | 21 ( | SEN | QUANTITY | SUMMA |

|             |                                |                 |        |      |          |     | PA                               | VEMENT MAR                       | RKING SUMMA                      | NRY (10 OF 10                    | ))                               |                                  |                                  |                                  |
|-------------|--------------------------------|-----------------|--------|------|----------|-----|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|             |                                |                 |        |      |          |     |                                  |                                  |                                  | ITEN                             | 1 678                            |                                  |                                  |                                  |
| REF.<br>NO. | COUNTY                         | ROADWAY         |        | csj  |          |     | PAVEMENT<br>SURF PREP<br>FOR MRK |
|             |                                |                 |        |      |          |     | (6")                             | (8")                             | (12")                            | (24")                            | (ARROW)                          | (WORD)                           | (RR XING)                        | (36") (YLD TRI)                  |
|             | CONTROL                        | CSJ 0095-08-021 | 1. ETC |      |          |     | LF                               | LF                               | LF                               | LF                               | EA                               | EA                               | EA                               | EA                               |
| 27          | SMITH                          | SH 110          | 0505   | - 02 | -        | 048 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 28          | SMITH                          | FM 344          | 0927   | - 01 | -        | 034 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 29          | SMITH                          | FM 849          | 0429   | - 05 | -        | 003 | 2,125                            | 161                              |                                  |                                  | 1                                | 1                                |                                  |                                  |
| 30          |                                |                 |        |      |          | 009 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 31          | 1 SMITH US 69 0190 - 04 -      |                 |        |      |          | 041 | 560                              |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 32          | 2 SMITH SH 64 0245 - 06 - 0    |                 |        |      | 090      |     |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 33          |                                |                 |        | 031  | 1,100    | 220 |                                  |                                  | 1                                |                                  |                                  |                                  |                                  |                                  |
| 34          | SMITH                          | US 80           | 0095   | - 08 | -        | 021 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 35          | VAN ZANDT                      | FM 47           | 0646   | - 01 | -        | 036 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 36          | VAN ZANDT                      | SH 110          | 0505   | - 01 | -        | 049 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 37          | VAN ZANDT                      | SH 243          | 0522   | - 02 | -        | 039 | 268                              | 232                              | 176                              | 56                               |                                  |                                  |                                  |                                  |
| 38          | VAN ZANDT                      | FM 773          | 1099   | - 04 | -        | 013 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 39          | VAN ZANDT                      | US 80           | 0095   | - 07 | -        | 061 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 40          | VAN ZANDT                      | SH 19           | 0108   | - 01 | <b>-</b> | 031 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 41          | WOOD                           | FM 852          | 0767   | - 04 | -        | 008 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 42          | WOOD                           | SH 154          | 0401   | - 02 | -        | 035 | 8,580                            |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 43          | WOOD                           | FM 2896         | 2958   | - 02 | -        | 012 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 44          | WOOD                           | FM 779          | 1111   | - 01 | -        | 015 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 45          | WOOD                           | US 80           | 0095   | 09   | П        | 040 | 285                              |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 46          | WOOD                           | US 80           | 0096   | 01   | П        | 047 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
| 47          | WOOD                           | FM 14           | 0492   | - 03 | -        | 041 |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|             | USE AS DIRECTED 0095 - 08 - 02 |                 |        |      | 021      |     |                                  |                                  |                                  |                                  |                                  | 2                                | 5                                |                                  |
|             |                                |                 |        |      |          |     |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|             | SUBT                           | OTALS (10 OF 10 | ))     |      |          |     | 12,918                           | 613                              | 176                              | 56                               | 2                                | 1                                | 2                                | 5                                |
|             | SUBT                           | OTALS (9 OF 10  | )      |      |          |     | 3,401                            | 905                              | 530                              | 102                              | 5                                | 1                                |                                  |                                  |
|             | PROJECT TOTALS                 |                 |        |      |          |     | 16,319                           | 1,518                            | 706                              | 158                              | 7                                | 2                                | 2                                | 5                                |



QUANTITY SUMMARY SEALCOAT

|      | 2024 | SHEET     | 130F | : 13      |
|------|------|-----------|------|-----------|
| CONT | SECT | JOB       |      | HIGHWAY   |
| 0095 | 08   | 021,Etc   | U.   | S 80,Etc  |
| DIST |      | COUNTY    |      | SHEET NO. |
| TYL  |      | SMITH.Etc |      | 31        |

|         |          | BASIS OF ESTIMATE                       |          |              |
|---------|----------|---|----------|--------------|
| IT      | ЕМ       | DESCRIPTION                             | QUANTITY | PAY<br>UNITS |
| CSJ 091 | 0-00-117 |   |          |              |
| 502     | 6001     | BARRICADES, SIGNS, AND TRAFFIC HANDLING | 3        | МО           |
|         |          |   |          |              |

NOTE: PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.

| TR                     | UCK MOUNTED ATTE       | ENUATORS                           |   |
|------------------------|------------------------|------------------------------------|---|
|                        |                        | ITE                                | M 6185                                  |
| STAGE OF PROJECT       | NUMBER<br>OF<br>TRUCKS | [1]<br>TMA<br>(STATIONARY)<br>DAYS | [1]<br>TMA<br>(MOBILE OPERATION<br>DAYS |
| CSJ 0910-00-117        |                        | •                                  | •                                       |
| THERMOPLASTIC MARKINGS | 2                      |                                    | 48                                      |
| PROFILE MARKINGS       | 1                      | 22                                 |   |
| CSJ 1150-04-012        |                        |                                    |   |
| THERMOPLASTIC MARKINGS | 2                      |                                    | 1                                       |
| PROFILE MARKINGS       | 1                      | 1                                  |   |
| CSJ 1608-01-005        |                        |                                    | <u>'</u>                                |
| THERMOPLASTIC MARKINGS | 2                      |                                    | 1                                       |
| PROFILE MARKINGS       | 1                      | 1                                  |   |
| CSJ 2955-01-007        |                        | •                                  |   |
| THERMOPLASTIC MARKINGS | 2                      |                                    | 1                                       |
| PROFILE MARKINGS       | 1                      | 1                                  |   |
| CSJ 1680-04-005        |                        | •                                  |   |
| THERMOPLASTIC MARKINGS | 2                      |                                    | 1                                       |
| PROFILE MARKINGS       | 1                      | 1                                  |   |
| CSJ 0096-05-008        |                        | •                                  | •                                       |
| THERMOPLASTIC MARKINGS | 2                      |                                    | 1                                       |
| PROFILE MARKINGS       | 1                      | 1                                  |   |
| CSJ 2274-01-013        |                        |                                    | '                                       |
| THERMOPLASTIC MARKINGS | 2                      |                                    | 1                                       |
| PROFILE MARKINGS       | 1                      | 1                                  |   |
| PROJECT TOTAL          |                        | 28                                 | 54                                      |

NOTE: PART OF MILESTONE. SEE GENERAL NOTES ITEM 8. [1] TOTAL DAYS FOR NUMBER OF TRUCKS SHOWN.



| © TxD0T | 2024 | SHEET     | 1 OF | 8         |
|---------|------|-----------|------|-----------|
| CONT    | SECT | JOB       |      | HIGHWAY   |
| 0095    | 08   | 021,Etc   | US   | 5 80,Etc  |
| DIST    |      | COUNTY    |      | SHEET NO. |
| TVI     |      | SMITH Etc |      | 33        |

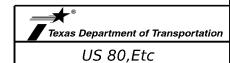
|            | 0624831\US80 00 117 QUANIT |
|------------|----------------------------|
|            | 117                        |
|            | 00                         |
|            | US80                       |
|            | 4831                       |
|            | d0624                      |
|            | txdot3\rye.redmond\d       |
| Σ          | ye.re                      |
| 1:15:19 AM | txdot3\r                   |
| 77         | \pw online\t               |
| 23         | Md                         |
| 9/18/20.   | xdot                       |
|            | C:1                        |
| 1 E:       | TE:                        |

|      |                |                 |         |    |           | TH       | ERMOPLAS  | STIC PAVE     | MENT MAI | RKING SUI | MMARY (1 | OF 8)    |          |          |          |               |          |
|------|----------------|-----------------|---------|----|-----------|----------|-----------|---------------|----------|-----------|----------|----------|----------|----------|----------|---------------|----------|
|      |                |                 |         |    | ITEM 6056 |          |           |               |          |           | ITEN     | 1 666    |          |          |          |               |          |
| REF. |                |                 |         |    | [1]       |          |           | REFL PAV MRK  | (        |           |          | RE PM W  | /RET REQ |          | REFL     | ECTORIZED PR  | OFILE    |
| NO.  | COUNTY         | ROADWAY         | C       | 5  | PREF CENT |          |           | TY I (100MIL) |          |           |          | TY I (1  | .00MIL)  |          | PAV      | MRK TY I (100 | MIL)     |
|      |                |                 |         |    | RUMBLE    |          |           | WHITE         |          |           | WH       | IITE     | YEL      | LOW      | WHITE    | YEL           | LOW      |
|      |                |                 |         |    | STRIPS    | 8" (SLD) | 18" (SLD) | 24" (SLD)     | 6" (DOT) | 8" (DOT)  | 6" (BRK) | 6" (SLD) | 6" (BRK) | 6" (SLD) | 6" (SLD) | 6" (BRK)      | 6" (SLD) |
|      | CSJ 09         | 910-00-117      | ı       |    | LF        | LF       | LF        | LF            | LF       | LF        | LF       | LF       | LF       | LF       | LF       | LF            | LF       |
| 101  | ANDERSON       | SL 256          | 0520 -  | 09 |           | 8,678    | 176       | 1,777         |          | 100       | 15,580   | 60,556   | 11,260   | 63,904   |          |               |          |
| 102  | ANDERSON       | SH 19           | 0108 -  | 06 |           | 1,465    |           |               | 910      | 200       | 4,590    | 105,526  |          | 108,522  |          |               |          |
| 103  | ANDERSON       | FM 315          | 0890 -  | 02 |           | 300      |           | 68            |          |           |          | 1,472    | 5,160    | 177,931  | 212,756  |               | 688      |
| 104  | CHEROKEE       | US 79           | 0206 -  | 03 |           | 470      |           | 444           | 40       |           | 3,070    |          | 1,300    | 13,552   |          |               |          |
| 105  | CHEROKEE       | US 79           | 0206 -  | 04 |           | 240      |           | 224           |          |           | 6,110    |          | 5,850    | 24,656   |          |               |          |
| 107  | CHEROKEE       | FM 851          | 1150 -  | 04 |           |          |           | 18            |          |           |          | 1,450    |          | 1,450    | 7,000    |               | 8,450    |
| 108  | CHEROKEE       | FM 1247         | 1387 -  | 02 |           |          |           | 50            |          |           |          | 2,560    |          | 2,560    | 93,368   | 1,260         | 90,822   |
| 109  | CHEROKEE       | US 69           | 0191 -  | 02 |           | 517      |           | 220           |          |           | 6,650    | 23,160   | 6,730    | 27,244   |          |               |          |
| 110  | CHEROKEE       | US 69           | 0199 -  | 01 |           | 485      |           | 498           |          |           | 1,210    |          | 730      | 7,472    |          |               |          |
| 112  | GREGG          | FM 3053         | 3082 -  | 01 |           |          |           | 397           |          |           |          | 43,961   | 4,010    | 22,429   |          |               |          |
| 113  | GREGG          | FM 2906         | 2954 -  | 03 |           |          |           | 42            |          |           |          | 100      |          | 100      | 40,352   | 2,530         | 34,698   |
| 114  | HENDERSON      | SH 274          | 0561 -  | 02 |           |          |           | 104           |          |           |          | 1,120    | 9,200    | 36,646   | 91,806   |               |          |
| 115  | HENDERSON      | SL 7            | 1099 -  | 05 |           | 8,542    |           | 256           | 200      | 70        | 2,800    | 48,848   |          | 66,290   |          |               |          |
| 116  | HENDERSON      | BU 175 G        | 0198 -  | 01 |           | 1,784    |           |               |          | 90        | 2,610    | 10,429   |          | 10,073   | 5,217    |               | 5,217    |
| 117  | HENDERSON      | US 175 W (SL 7) | 1099 -  | 05 |           | 2,667    |           |               |          |           | 5,370    | 23,971   | 5,370    | 23,971   |          |               |          |
| 118  | HENDERSON      | FM 317          | 0889 -  | 01 |           | 420      |           | 254           |          |           |          | 1,280    | 4,910    | 72,723   | 97,834   |               |          |
| 119  | HENDERSON      | SH 19           | 0108 -  | 05 |           |          |           |               |          |           |          | 6,492    | 560      | 6,492    |          |               |          |
| 120  | RUSK           | FM 3135         | 3239 -  | 01 |           |          | 50        | 302           |          |           |          | 3,180    |          | 1,280    | 64,442   | 1,090         | 63,555   |
| 121  | RUSK           | FM 1716         | 1940 -  | 01 |           |          |           | 586           |          |           |          | 1,280    | 3,620    | 78,121   | 95,062   |               |          |
| 122  | RUSK           | SL 571          | 3239 -  | 01 |           | 4,123    |           | 396           |          | 230       | 160      | 62,023   | 3,940    | 52,535   |          |               |          |
| 124  | SMITH          | SS 248          | 2558 -  | 01 |           | 1,035    |           | 727           | 70       | 40        | 5,710    | 20,288   | 5,260    | 24,300   |          |               |          |
| 125  | SMITH          | FM 2661         | 2654    | 01 |           | 504      |           | 275           |          |           |          | 33,760   | 1,750    | 25,823   |          |               |          |
| 126  | SMITH          | SH 64           | 0245    | 06 |           | 1,181    | 492       | 1,045         | 290      |           | 12,500   | 48,597   | 11,160   | 50,032   |          |               |          |
| 128  | SMITH          | FM 279          | 0245    | 09 |           |          |           | 25            |          |           |          | 1,280    |          | 10,465   | 10,465   |               |          |
| 129  | SMITH          | SL 323          | 2075 -  | 01 |           | 6,684    |           | 1,100         | 80       |           | 9,890    | 39,547   | 4,000    | 39,547   |          |               |          |
| 130  | SMITH          | SL 323          | 1790 -  | 02 |           | 6,559    |           | 141           | 80       | 40        | 5,730    | 22,915   |          | 22,915   |          |               |          |
| (    | SJ: 0910-00-11 | 7 SUBTOTALS (   | 1 OF 8) |    |           | 45,654   | 718       | 8,949         | 1,670    | 770       | 81,980   | 563,795  | 84,810   | 971,033  | 718,302  | 4,880         | 203,430  |

NOTE: 1. QUANTITIES DO NOT REFLECT LEAVE OUTS FOR INTERSECTIONS.

NOTE 2. PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.

[1] USE TRANSVERSE RUMBLE STRIPS FOR PREFORMED THERMOPLASTIC STRIPS. CUT TO LENGTH AND SPACE AS SHOWN ON "CENTERLINE RUMBLE STRIPS ON TWO LANE TWO WAY HIGHWAYS" STANDARD



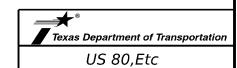
| © TxD0T | 2024 | SHEET     | 20        | F 8       |  |  |
|---------|------|-----------|-----------|-----------|--|--|
| CONT    | SECT | JOB       | US 80,Etc |           |  |  |
| 0095    | 08   | 021,Etc   |           |           |  |  |
| DIST    |      | COUNTY    |           | SHEET NO. |  |  |
| TYI     |      | SMITH Ftc |           | 33        |  |  |

|  |                            |                          |                  |                    | ITEM 6056 |          |           |                |          |          | ITEM          | 1 666           |                |                       |            |             |          |
|--|----------------------------|--------------------------|------------------|--------------------|-----------|----------|-----------|----------------|----------|----------|---------------|-----------------|----------------|-----------------------|------------|-------------|----------|
| REF.   |                            |                          |                  |                    | [1]       |          |           | REFL PAV MRK   |          |          |               | RE PM W         | /RET REQ       |                       | REFLE      | CTORIZED PR | OFILE    |
| NO.  | COUNTY                     | ROADWAY                  | c                | 5                  | PREF CENT |          |           | TY I (100 MIL) |          |          |               | TY I (1         | .00MIL)        | PAV MRK TY I (100MIL) |            |             |          |
|  |                            |                          |                  |                    | RUMBLE    |          |           | WHITE          |          |          | WH            | IITE            | YEL            | LOW                   | WHITE      | YEL         | LOW      |
|  |                            |                          |                  |                    | STRIPS    | 8" (SLD) | 18" (SLD) | 24" (SLD)      | 6" (DOT) | 8" (DOT) | 6" (BRK)      | 6" (SLD)        | 6" (BRK)       | 6" (SLD)              | 6" (SLD)   | 6" (BRK)    | 6" (SLD) |
|  | CSJ 09                     | 910-00-117               |                  |                    | LF        | LF       | LF        | LF             | LF       | LF       | LF            | LF              | LF             | LF                    | LF         | LF          | LF       |
| 131  | SMITH                      | FM 850                   | 1163 -           | 01                 |           |          |           | 1,191          | 80       |          | 180           | 165,834         | 5,520          | 145,355               |            |             |          |
| 132  | VAN ZANDT                  | FM 47                    | 0646 -           | 01                 |           |          |           | 100            |          |          |               | 1,280           |                | 1,280                 | 53,808     | 3,530       | 39,806   |
| 133  | VAN ZANDT                  | SH 64                    | 0245 -           | 02                 |           |          |           | 160            | 710      |          | 3,930         | 62,876          | 380            | 62,005                |            |             |          |
| 134  | VAN ZANDT                  | SH 64                    | 0245 -           | 19                 |           | 1,665    |           | 160            | 600      |          | 7,980         | 88,786          | 1,240          | 94,519                |            |             |          |
| 135  | VAN ZANDT                  | FM 2475                  | 3263 -           | 01                 |           |          |           | 200            |          |          |               | 640             |                | 640                   | 43,930     | 3,650       | 22,783   |
| 136  | VAN ZANDT                  | FM 316                   | 0646 -           | 04                 |           |          |           | 153            |          |          |               | 640             |                | 640                   | 52,102     | 3,990       | 36,029   |
| 137  | VAN ZANDT                  | FM 2339                  | 2265 -           | 01                 | 10        | 212      |           | 199            |          |          |               | 2,560           | 3,030          | 28,739                | 45,686     | 5.660       | 120 560  |
| 138  | WOOD                       | FM 49                    | 0647 -           | 01                 | 130       | 212      |           | 501            |          |          |               | 6,251           |                | 6,251                 | 137,207    | 5,660       | 120,569  |
| 139  | WOOD                       | FM 49<br>SH 11           | 0647 -           | 02                 | 130       | 992      |           | 180<br>785     |          |          | 570           | 1,280           | F 210          | 1,280                 | 84,676     | 4,620       | 61,470   |
| 140  | WOOD<br>WOOD               | US 80                    | 0083 -<br>0096 - | 06                 |           | 6,028    |           | 300            |          |          | 570<br>22,140 | 94,432<br>1,348 | 5,310<br>1,060 | 73,593<br>1,324       | 88,569     |             | 88,085   |
| 141<br>142   | WOOD                       | US 80                    | 0096 -           | 01<br>02           |           | 198      |           | 300            |          |          | 3,700         | 1,348           | 1,060          | 1,324                 | 14,794     |             | 14,794   |
| 143  | WOOD                       | FM 1801                  | 0096 -           | 05                 |           | 198      |           | 70             |          |          | 3,700         | 1,190           |                | 150                   | 10,308     |             | 10,308   |
| 143  | WOOD                       | 1 1111001                | 0030  -          | 03                 |           |          |           | 70             |          |          |               | 150             |                | 130                   | 10,500     |             | 10,500   |
| CSJ: 0910-00-117 SUBTOTALS (2 OF 8)                              |                            |                          |                  |                    | 270       | 9,095    |           | 3,999          | 1,390    |          | 38,500        | 427,267         | 16,540         | 416,966               | 531,080    | 21,450      | 393,84   |
| (  | SJ: 0910-00-11             | 7 SUBTOTALS (            | (1 OF 8)         |                    |           | 45,654   | 718       | 8,949          | 1,670    | 770      | 81,980        | 563,795         | 84,810         | 971,033               | 718,302    | 4,880       | 203,430  |
|  | CSJ: 0910-                 | 00-117 TOTAL             | S                |                    | 270       | 54,749   | 718       | 12,948         | 3,060    | 770      | 120,480       | 991,062         | 101,350        | 1,387,999             | 1,249,382  | 26,330      | 597,274  |
|  |                            |                          |                  |                    | Г         |          |           |                |          |          |               |                 |                |                       |            |             |          |
| 100  | CSJ 1150-04-               |                          | CS               | _                  |           |          | 1         | 26             | T        | <u> </u> | ı             | 2.500           | 1              | 2.560                 | 06.726     | 3.000       | 70.077   |
| 106  | CHEROKEE                   | J: 1150-04-012 SUBTOTALS |                  | FM 851 1150-04-012 |           |          |           | 36             |          |          |               | 2,560           |                | 2,560                 | 96,726     | 3,980       | 79,977   |
|  |                            |                          |                  |                    |           |          |           | 36             |          |          |               | 2,560           |                | 2,560                 | 96,726     | 3,980       | 79,977   |
|  | CSJ 1608-01-               |                          | CS               | _                  |           |          |           |                | T        | T        |               |                 |                |                       |            |             | т        |
| 111  | GREGG                      | FM 1639                  | 1608-0           | 1-005              |           |          |           | 103            |          |          |               | 1,280           | 800            | 13,264                | 16,336     |             | <u> </u> |
|  |                            | L-005 SUBTOTA            |                  |                    |           |          | <u> </u>  | 103            |          |          |               | 1,280           | 800            | 13,264                | 16,336     |             |          |
|  | CSJ 2955-01-               |                          | CS               | _                  |           |          | 1         | 20             | T        | T        | ı             |                 | 500            |                       | I 04 400 I |             |          |
| 123  | RUSK                       | FM 2907                  | 2955-0           | 1-007              |           |          |           | 30             |          |          |               | 1,280           | 590            | 20,137                | 21,488     |             | <u> </u> |
|  |                            | L-007 SUBTOTA            |                  |                    |           |          |           | 30             |          |          |               | 1,280           | 590            | 20,137                | 21,488     |             |          |
| 107  | CSJ 1680-04-               |                          | CS               |                    |           |          | 1         | 24             | T        | T        | ı             | 1 200           | 1 270          | 17.024                | 22.612     |             |          |
| 127  | SMITH                      | FM 2089                  | 1680-0           | 4-008              |           |          |           | 24             |          |          |               | 1,280           | 1,270          | 17,834                | 23,612     |             |          |
|  |                            | I-005 SUBTOTA            |                  | ,                  |           |          |           | 24             |          |          |               | 1,280           | 1,270          | 17,834                | 23,612     |             |          |
| 111  | CSJ 0096-05-               |                          | 0006.0           |                    |           |          | ı         | 260            |          | <u> </u> | I             | 1 200           | 1              | 1 200                 | F0.056     |             | F2 220   |
| 144  | WOOD                       | FM 1801                  | 0096-0           | 5-008              |           |          |           | 260            |          |          |               | 1,280           |                | 1,280                 | 50,956     |             | 52,236   |
|  | CSJ: 0096-05-008 SUBTOTALS |                          |                  | .,                 |           |          | <u> </u>  | 260            |          |          | <u> </u>      | 1,280           | <u> </u>       | 1,280                 | 50,956     |             | 52,236   |
| 1.45   | CSJ 2274-01-               |                          | 2274.0           |                    |           |          |           | 262            | T        | Γ        | ı             | 2.500           | 1              | 2.550                 | ] 25.752 ] | 400         | 20.202   |
| 145   WOOD   FM 2422   2274-01-013<br>CSJ: 2274-01-013 SUBTOTALS |                            |                          | 1-013            |                    |           |          | 263       |                |          |          | 2,560         |                 | 2,560          | 25,752                | 480        | 26,393      |          |
|  | CSJ: 2274-01               | I-OT3 SORTOLY            | ALS              |                    |           |          | <u> </u>  | 263            |          |          | <u> </u>      | 2,560           | <u> </u>       | 2,560                 | 25,752     | 480         | 26,393   |
|  | DDC::                      | CT TOTAL C               |                  |                    | 270       | E4 740   | 730       | 12.554         | 3.000    | 770      | 120.400       | 1.001.303       | 104.010        | 1 445 636             | 1 494 353  | 30.700      | 755.004  |
|  | PROJE                      | CT TOTALS                |                  |                    | 270       | 54,749   | 718       | 13,664         | 3,060    | 770      | 120,480       | 1,001,302       | 104,010        | 1,445,634             | 1,484,252  | 30,790      | 755,88   |

NOTE: 1. QUANTITIES DO NOT REFLECT LEAVE OUTS FOR INTERSECTIONS.

NOTE 2. PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.

[1] USE TRANSVERSE RUMBLE STRIPS FOR PREFORMED THERMOPLASTIC STRIPS. CUT TO LENGTH AND SPACE AS SHOWN ON "CENTERLINE RUMBLE STRIPS ON TWO LANE TWO WAY HIGHWAYS" STANDARD



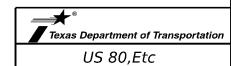
| ©TxD0T | 2024 | SHEET   | 3 OF | 8         |  |  |
|--------|------|---------|------|-----------|--|--|
| CONT   | SECT | JOB     | ŀ    | HIGHWAY   |  |  |
| 0095   | 08   | 021,Etc | US   | 80,Etc    |  |  |
| DIST   |      | COUNTY  |      | SHEET NO. |  |  |
|        |      |         |      |           |  |  |

|            | SUM                         |
|------------|-----------------------------|
|            | 0624831\US80 00 117 QUANITY |
|            | 117                         |
|            | 00                          |
|            | 31\US80                     |
|            | d06248                      |
|            | e.redmond                   |
| 1:12:23 AM | eltxdot3\rye.               |
| 7          | v online                    |
| /18/2023   | :\txdot\p                   |
| 2)         | Ü                           |

|      |                 |                |         |      |                    |             | TH           | ERMOPLAS | STIC PAVEME   | ENT MARKING     | SUMMARY (       | 3 OF 8)      |               |          |           |          |           |
|------|-----------------|----------------|---------|------|--------------------|-------------|--------------|----------|---------------|-----------------|-----------------|--------------|---------------|----------|-----------|----------|-----------|
|      |                 |                |         |      |                    |             |              |          |               | ITEM 668        |                 |              |               |          |           | ITEM     | 1 672     |
| REF. |                 |                |         |      |                    |             |              |          |               | PREFAB PAV M    | 1RK             |              |               |          |           |          |           |
| NO.  | COUNTY          | ROADWAY        | cs      | :    |                    |             |              |          |               | TY C            |                 |              |               |          |           | REFL PAV | REFL PAV  |
|      |                 |                |         |      | WHITE YELLOW BL&WH |             |              |          |               |                 |                 |              |               |          |           | MRKR     | MRKR      |
|      |                 |                |         |      | (ARROW)            | (DBL ARROW) | (LNDP ARROW) | (WORD)   | [1] (RR XING) | (18") (YLD TRI) | (36") (YLD TRI) | (BIKE ARROW) | (BIKE SYMBOL) | 6" (SLD) | (ACC PRK) | TY I-C   | TY II-A-A |
|      | CSJ 09          | 10-00-117      |         |      | EA                 | EA          | EA           | EA       | EA            | EA              | EA              | EA           | EA            | LF       | EA        | EA       | EA        |
| 101  | ANDERSON        | SL 256         | 0520    | - 09 | 67                 | 1           |              | 43       | 6             |                 | 39              |              |               | 82       |           | 61       | 67        |
| 102  | ANDERSON        | SH 19          |         | - 06 | 8                  |             | 6            | 8        |               |                 |                 |              |               |          |           |          |           |
| 103  | ANDERSON        | FM 315         | 0890    | - 02 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 104  | CHEROKEE        | US 79          | 0206    | - 03 | 9                  |             | 2            | 4        |               |                 |                 |              |               |          |           |          |           |
| 105  | CHEROKEE        | US 79          | 0206    | - 04 | 47                 |             |              | 3        |               |                 |                 |              |               |          |           |          |           |
| 107  | CHEROKEE        | FM 851         | 1150    | - 04 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 108  | CHEROKEE        | FM 1247        | 1387    | - 02 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 109  | CHEROKEE        | US 69          | 0191    | - 02 | 17                 |             |              | 3        |               |                 |                 |              |               | 80       |           |          |           |
| 110  | CHEROKEE        | US 69          | 0199    | - 01 | 7                  |             |              | 5        |               |                 |                 |              |               |          |           |          |           |
| 112  | GREGG           | FM 3053        | 3082    | - 01 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 113  | GREGG           | FM 2906        | 2954    | - 03 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 114  | HENDERSON       | SH 274         | 0561    | - 02 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 115  | HENDERSON       | SL 7           | 1099    | - 05 | 13                 |             | 2            | 13       |               |                 |                 |              |               |          |           |          |           |
| 116  | HENDERSON       | BU 175 G       | 0198    | - 01 | 10                 |             |              | 10       |               |                 | 82              |              |               |          |           |          |           |
| 117  | HENDERSON       | US 175 W (SL 7 | 1099    | - 05 | 18                 |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 118  | HENDERSON       | FM 317         | 0889    | - 01 |                    |             |              |          |               |                 | 5               |              |               |          |           |          |           |
| 119  | HENDERSON       | SH 19          | 0108    | - 05 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 120  | RUSK            | FM 3135        | 3239    | - 01 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 121  | RUSK            | FM 1716        | 1940    | - 01 |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 122  | RUSK            | SL 571         | 3239    | - 01 | 7                  |             |              | 5        | 2             |                 | 16              |              |               | 272      |           |          |           |
| 124  | SMITH           | SS 248         | 2558    | - 01 | 20                 |             |              | 10       |               |                 |                 | 9            | 9             |          |           |          |           |
| 125  | SMITH           | FM 2661        | 2654    | 01   | 1                  |             |              | 1        |               |                 |                 |              |               |          |           |          |           |
| 126  | SMITH           | SH 64          | 0245    | 06   | 44                 |             | 2            | 14       |               |                 |                 |              |               |          |           |          |           |
| 128  | SMITH           | FM 279         | 0245    | 09   |                    |             |              |          |               |                 |                 |              |               |          |           |          |           |
| 129  | SMITH           | SL 323         | 2075    | - 01 | 48                 |             |              | 48       | 10            |                 | 18              |              |               |          |           |          |           |
| 130  | SMITH           | SL 323         | 1790    | - 02 | 32                 |             |              | 50       |               |                 |                 |              |               | 28       |           |          |           |
| C    | SJ: 0910-00-117 | SUBTOTALS (    | 3 OF 8) |      | 348                | 1           | 12           | 217      | 18            |                 | 160             | 9            | 9             | 462      |           | 61       | 67        |

NOTE: 1. QUANTITIES DO NOT REFLECT LEAVE OUTS FOR INTERSECTIONS. NOTE 2. PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.

[1] 24" WHITE TRANSVERSE LINES ARE INCLUDED WITH ITEM, REFER TO RCD(1)-22



| L | ©TxD0T | 2024 | SHEET     | 4 OF | 8         |
|---|--------|------|-----------|------|-----------|
| I | CONT   | SECT | JOB       | н    | IGHWAY    |
| ſ | 0095   | 08   | 021,Etc   | US   | 80,Etc    |
| ſ | DIST   |      | COUNTY    |      | SHEET NO. |
| Г | TVI    |      | CMITH Et- |      | 2 -       |

|          | DUANITY                  |
|----------|--------------------------|
|          | 117 G                    |
|          | 30 00                    |
|          | 31\US                    |
|          | d0624831\US80 00 117 QUA |
|          | \txdot3\rye.redmond\\    |
| M        | rye.r                    |
| :15:24 A | txdot3\!                 |
| 77       | online\t                 |
| 023      | tlpw                     |
| 9/18/2   | :\txdc                   |
| 20,      | Ü                        |

|                     |                 |              |        |       |         |                |              |        |               |                 | SUMMARY (4      | . J. J,      |               |          |           |          |  |
|---------------------|-----------------|--------------|--------|-------|---------|----------------|--------------|--------|---------------|-----------------|-----------------|--------------|---------------|----------|-----------|----------|--|
|                     |                 |              |        |       |         |                |              |        |               | ITEM 668        |                 |              |               |          |           | ITEM     | 1 672  |
| REF.                |                 |              |        |       |         | PREFAB PAV MRK |              |        |               |                 |                 |              |               |          |           |          |  |
| NO.                 | COUNTY          | ROADWAY      | C      | 5     |         |                |              |        |               | TY C            |                 |              |               |          |           | REFL PAV | REFL PAV   |
|                     |                 |              |        |       |         |                |              |        | WHITE         |                 |                 |              |               | YELLOW   | BL&WH     | MRKR     | MRKR   |
|                     |                 |              |        |       | (ARROW) | (DBL ARROW)    | (LNDP ARROW) | (WORD) | [1] (RR XING) | (18") (YLD TRI) | (36") (YLD TRI) | (BIKE ARROW) | (BIKE SYMBOL) | 6" (SLD) | (ACC PRK) | TY I-C   | TY II-A-A  |
|                     | CSJ 09          | 10-00-117    |        |       | EA      | EA             | EA           | EA     | EA            | EA              | EA              | EA           | EA            | LF       | EA        | EA       | EA   |
| 131                 | SMITH           | FM 850       | 1163 - | 01    |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 132                 | VAN ZANDT       | FM 47        | 0646 - | 01    |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 133                 | VAN ZANDT       | SH 64        | 0245 - | 02    |         |                | 4            |        |               |                 |                 |              |               | 60       |           |          |  |
| 134                 | VAN ZANDT       | SH 64        | 0245 - | 19    | 15      |                | 4            | 9      |               |                 |                 |              |               | 410      |           |          |  |
| 135                 | VAN ZANDT       | FM 2475      | 3263 - | 01    |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 136                 | VAN ZANDT       | FM 316       | 0646 - | 04    |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 137                 | VAN ZANDT       | FM 2339      | 2265 - | 01    |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 138                 | WOOD            | FM 49        | 0647 - | 01    |         |                |              |        |               |                 | 10              |              |               |          |           |          | <b></b>  |
| 139                 | WOOD            | FM 49        | 0647 - | 02    |         |                |              |        |               |                 |                 |              |               |          |           |          | <b></b>  |
| 140                 | WOOD            | SH 11        | 0083 - | 06    | 5       |                |              | 5      | 2             | 17              |                 |              |               | 30       |           |          | <b></b>  |
| 141                 | WOOD            | US 80        | 0096 - | 01    | 45      |                |              | 41     |               |                 | 318             |              |               | 100      |           |          |  |
| 142                 | WOOD            | US 80        | 0096 - | 02    | 2       |                |              | 2      |               |                 | 24              |              |               |          |           |          |  |
| 143                 | WOOD            | FM 1801      | 0096 - | 05    |         |                |              |        |               |                 |                 |              |               |          | _         |          | <del>                                     </del> |
|                     | USE A           | S DIRECTED   |        |       |         |                |              |        |               |                 |                 |              |               |          | 1         |          |  |
|                     |                 |              |        |       |         | T              | 1 - 1        |        | T _           |                 | T               | T            | 1             |          |           |          |  |
|                     | SJ: 0910-00-117 |              |        |       | 67      |                | 8            | 57     | 2             | 17              | 352             | _            | _             | 600      | 1         |          |  |
| c                   | SJ: 0910-00-117 |              |        |       | 348     | 1              | 12           | 217    | 18            |                 | 160             | 9            | 9             | 462      |           | 61       | 67   |
|                     | CSJ: 0910-      | 00-117 TOTAL | 5      |       | 415     | 1              | 20           | 274    | 20            | 17              | 512             | 9            | 9             | 1,062    | 1         | 61       | 67   |
|                     |                 |              |        |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     | CSJ 1150-04-    |              | CS     |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 106                 | CHEROKEE        | FM 851       | 1150-0 | 4-012 |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     |                 | -012 SUBTOTA |        |       |         |                |              |        |               |                 |                 |              |               |          |           |          | <u> </u>   |
|                     | CSJ 1608-01-    |              | CS     |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 111                 | GREGG           | FM 1639      | 1608-0 | 1-005 |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     |                 | -005 SUBTOTA |        |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     | CSJ 2955-01-    |              | CS     |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 123                 | RUSK            | FM 2907      | 2955-0 | 1-007 |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     | CSJ: 2955-01    | -007 SUBTOTA | ALS    |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     | CSJ 1680-04-    | 005          | CS     |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 127                 | SMITH           | FM 2089      | 1680-0 | 4-005 |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     | CSJ: 1680-04    | -005 SUBTOTA | ALS    |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     | CSJ 0096-05-    | 800          | CS     | SJ    |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 144                 | WOOD            | FM 1801      | 0096-0 | 5-008 |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
|                     | CSJ: 0096-05    | -008 SUBTOTA | ALS    |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| CSJ 2274-01-013 CSJ |                 |              |        |       |         |                |              |        |               |                 |                 |              |               |          |           |          |  |
| 145                 | WOOD            | FM 2422      | 2274-0 | 1-013 |         |                |              |        | 2             |                 |                 |              |               |          |           |          |  |
|                     | CSJ: 2274-01    | 013 SUBTOTA  | LS     |       |         |                |              |        | 2             |                 |                 |              |               |          |           |          | 1  |

NOTE: 1. QUANTITIES DO NOT REFLECT LEAVE OUTS FOR INTERSECTIONS.

NOTE 2. PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.

PROJECT TOTALS

[1] 24" WHITE TRANSVERSE LINES ARE INCLUDED WITH ITEM, REFER TO RCD(1)-22

415

20

274

22

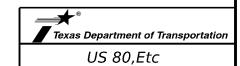
17

512

9

1,062

1



67

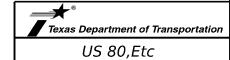
61

| ©TxDOT | 2024 | SHEET     | 5 OF      | 8      |  |
|--------|------|-----------|-----------|--------|--|
| CONT   | SECT | JOB       | ніс       | SHWAY  |  |
| 0095   | 08   | 021,Etc   | US 8      | 30,Etc |  |
| DIST   |      | COUNTY    | SHEET NO. |        |  |
| TVI    |      | CMITH Etc |           | 26     |  |

|             | SUM  |
|-------------|--|
|             | OUANITY  |
|             | 117  |
|             | 00   |
| 11:15:27 AM | c:\txdot\pw online\txdot3\rye.redmond\d0624831\US80 00 117 QUANITY SUM |
| : 9/18/2023 | C:\txdot\pw c  |
| 9           | Ü  |
| ii:         | ٠.   |

|      |                                     |                 |        |                   |          |          | THERMO   | PLASTIC PA | VEMENT M | ARKING SU | MMARY (5 | OF 8)    |          |          |          |          |           |
|------|-------------------------------------|-----------------|--------|-------------------|----------|----------|----------|------------|----------|-----------|----------|----------|----------|----------|----------|----------|-----------|
|      |                                     |                 |        | ITEM 666 ITEM 677 |          |          |          |            |          |           |          |          |          |          |          |          |           |
| REF. |                                     |                 |        |                   |          |          |          |            |          |           | ELIM EXT  |
| NO.  | COUNTY                              | ROADWAY         | C      | 5                 | PAVEMENT | PAVEMENT | PAVEMENT | PAVEMENT   | PAVEMENT | PAVEMENT  | PAV MRK   |
|      |                                     |                 |        |                   | SEALER   | SEALER   | SEALER   | SEALER     | SEALER   | SEALER    | & MRKS    |
|      |                                     |                 |        |                   | (6")     | (8")     | (24")    | (ARROW)    | (WORD)   | (YLD TRI) | (4")     | (8")     | (12")    | (24")    | (ARROW)  | (WORD)   | (YLD TRI) |
|      | CSJ 0                               | 910-00-117      |        |                   | LF       | LF       | LF       | LF         | LF       | LF        | LF       | LF       | LF       | LF       | LF       | LF       | LF        |
| 101  | ANDERSON                            | SL 256          | 0520 - | 09                | 3,736    | 911      | 332      | 7          | 7        | 14        | 3,736    | 911      |          | 332      | 7        | 7        | 14        |
| 102  | ANDERSON                            | SH 19           | 0108 - | 06                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 103  | ANDERSON                            | FM 315          | 0890 - | 02                | 488      |          |          |            |          |           | 488      |          |          |          |          |          |           |
| 104  | CHEROKEE                            | US 79           | 0206 - | 03                | 236      |          |          |            |          |           | 236      |          |          |          |          |          |           |
| 105  | CHEROKEE                            | US 79           | 0206 - | 04                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 107  | CHEROKEE                            | FM 851          | 1150 - | 04                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 108  | CHEROKEE                            | FM 1247         | 1387 - | 02                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 109  | CHEROKEE                            | US 69           | 0191 - | 02                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 110  | CHEROKEE                            | US 69           | 0199 - | 01                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 112  | GREGG                               | FM 3053         | 3082 - | 01                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 113  | GREGG                               | FM 2906         | 2954 - | 03                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 114  | HENDERSON                           | SH 274          | 0561 - | 02                | 2,900    |          |          |            |          |           | 2,900    |          |          |          |          |          |           |
| 115  | HENDERSON                           | SL 7            | 1099 - | 05                | 4,060    | 1,093    |          |            |          |           | 4,060    | 1,093    |          |          |          |          |           |
| 116  | HENDERSON                           | BU 175 G        | 0198 - | 01                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 117  | HENDERSON                           | US 175 W (SL 7) | 1099 - | 05                | 21,244   | 2,667    |          |            |          |           | 21,244   | 2,667    |          |          |          |          |           |
| 118  | HENDERSON                           | FM 317          | 0889 - | 01                | 843      |          |          |            |          |           | 843      |          |          |          |          |          |           |
| 119  | HENDERSON                           | SH 19           | 0108 - | 05                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 120  | RUSK                                | FM 3135         | 3239 - | 01                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 121  | RUSK                                | FM 1716         | 1940 - | 01                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 122  | RUSK                                | SL 571          | 3239 - | 01                | 4,213    | 65       | 24       |            |          | 4         | 4,213    | 65       |          | 24       |          |          | 4         |
| 124  | SMITH                               | SS 248          | 2558 - | 01                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 125  | SMITH                               | FM 2661         | 2654   | 01                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 126  | SMITH                               | SH 64           | 0245   | 06                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 128  | SMITH                               | FM 279          | 0245   | 09                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 129  | SMITH                               | SL 323          | 2075 - | 01                |          |          |          |            |          |           |          |          |          |          |          |          |           |
| 130  | SMITH                               | SL 323          | 1790 - | 02                |          |          |          |            |          |           |          |          |          |          |          |          |           |
|      | CSJ: 0910-00-117 SUBTOTALS (5 OF 8) |                 |        |                   | 37,720   | 4,736    | 356      | 7          | 7        | 18        | 37,720   | 4,736    |          | 356      | 7        | 7        | 18        |

NOTE: 1. QUANTITIES DO NOT REFLECT LEAVE OUTS FOR INTERSECTIONS. NOTE 2. PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.



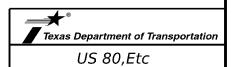
| L | © TxD0T | 2024 | SHEET     | 6 OF      | 8         |  |  |
|---|---------|------|-----------|-----------|-----------|--|--|
| ſ | CONT    | SECT | JOB       | P         | HIGHWAY   |  |  |
| ſ | 0095    | 08   | 021,Etc   | US 80,Etc |           |  |  |
| I | DIST    |      | COUNTY    |           | SHEET NO. |  |  |
| Г | TVI     |      | SMITH Etc |           | 27        |  |  |

| 023 11:15:28 AM | txdot pw_online txdot3 rye.redmond d0624831 US80_00_117_QUAN |
|-----------------|--|
| 8/202           | C:\txdot\p   |
| نن              | a:   |

|             |                 |              |         |        |          |          | THERMOP  | LASTIC PAV | EMENT MA | ARKING SUN | MARY (6 C | OF 8)    |              |          |          |              |           |
|-------------|-----------------|--------------|---------|--------|----------|----------|----------|------------|----------|------------|-----------|----------|--------------|----------|----------|--------------|-----------|
|             |                 |              |         |        |          |          | ITEM     | 1 666      |          |            |           |          |              | ITEM 677 |          |              |           |
| REF.        |                 |              |         |        |          |          |          |            |          |            | ELIM EXT  | ELIM EXT | ELIM EXT     | ELIM EXT | ELIM EXT | ELIM EXT     | ELIM EXT  |
| NO.         | COUNTY          | ROADWAY      | CS      | 5      | PAVEMENT | PAVEMENT | PAVEMENT | PAVEMENT   | PAVEMENT | PAVEMENT   | PAV MRK   | PAV MRK  | PAV MRK      | PAV MRK  | PAV MRK  | PAV MRK      | PAV MRK   |
|             |                 |              |         |        | SEALER   | SEALER   | SEALER   | SEALER     | SEALER   | SEALER     | & MRKS    | & MRKS   | & MRKS       | & MRKS   | & MRKS   | & MRKS       | & MRKS    |
|             |                 |              |         |        | (6")     | (8")     | (24")    | (ARROW)    | (WORD)   | (YLD TRI)  | (4")      | (8")     | (12")        | (24")    | (ARROW)  | (WORD)       | (YLD TRI) |
|             | CSJ 09          | 10-00-117    |         |        | LF       | LF       | LF       | LF         | LF       | LF         | LF        | LF       | LF           | LF       | LF       | LF           | LF        |
| 131         | SMITH           | FM 850       | 1163 -  | 01     | 1,080    |          |          |            |          |            | 1,080     |          |              |          |          |              |           |
| 132         | VAN ZANDT       | FM 47        | 0646 -  | 01     | 640      |          |          |            |          |            | 640       |          |              |          |          |              |           |
| 133         | VAN ZANDT       | SH 64        | 0245 -  | 02     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 134         | VAN ZANDT       | SH 64        | 0245 -  | 19     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 135         | VAN ZANDT       | FM 2475      | 3263 -  | 01     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 136         | VAN ZANDT       | FM 316       | 0646 -  | 04     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 137         | VAN ZANDT       | FM 2339      | 2265 -  | 01     | 234      |          |          |            |          |            | 234       |          |              |          |          |              |           |
| 138         | WOOD            | FM 49        | 0647 -  | 01     | 3,760    |          |          |            |          |            | 3,760     |          |              |          |          |              |           |
| 139         | WOOD            | FM 49        | 0647 -  | 02     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 140         | WOOD            | SH 11        | 0083 -  | 06     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 141         | WOOD            | US 80        | 0096 -  | 01     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 142         | WOOD            | US 80        | 0096 -  | 02     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 143         | WOOD            | FM 1801      | 0096 -  | 05     |          |          |          |            |          |            |           |          |              |          |          |              |           |
|             | USE AS          | S DIRECTED   |         |        |          |          |          |            |          |            |           | 100      | 100          | 100      | 5        | 5            | 5         |
|             |                 |              |         |        |          |          |          |            |          |            |           |          |              |          |          |              |           |
| С           | SJ: 0910-00-117 | SUBTOTALS (  | 6 OF 8) |        | 5,714    |          |          |            |          |            | 5,714     | 100      | 100          | 100      | 5        | 5            | 5         |
| С           | SJ: 0910-00-117 | SUBTOTALS (  | 5 OF 8) |        | 37,720   | 4,736    | 356      | 7          | 7        | 18         | 37,720    | 4,736    |              | 356      | 7        | 7            | 18        |
|             | CSJ: 0910-0     | 00-117 TOTAL | 5       |        | 43,434   | 4,736    | 356      | 7          | 7        | 18         | 43,434    | 4,836    | 100          | 456      | 12       | 12           | 23        |
|             |                 |              |         |        |          |          |          |            |          |            |           |          |              |          |          |              |           |
|             | CSJ 1150-04-0   | 012          | cs      | ij     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 106         | CHEROKEE        | FM 851       | 1150-0  | 4-012  |          |          |          |            |          |            |           |          |              |          |          |              |           |
|             | CSJ: 1150-04    | -012 SUBTOTA | LS      |        |          |          |          |            |          |            |           |          |              |          |          |              |           |
|             | CSJ 1608-01-0   | 005          | cs      | iJ     |          |          |          |            |          |            |           |          |              |          |          |              |           |
| 111         | GREGG           | FM 1639      | 1608-0  | 1-005  |          |          |          |            |          |            |           |          |              |          |          |              | T         |
| •           | CSJ: 1608-01    | -005 SUBTOTA | LS      |        |          |          |          |            |          |            |           |          |              |          |          |              | 1         |
|             | CSJ 2955-01-0   | 007          | cs      |        |          |          |          | •          |          | •          |           | •        | •            | •        | •        | •            | •         |
| 123         | RUSK            | FM 2907      | 2955-0. |        |          |          |          |            |          |            |           |          |              |          |          |              | T         |
| <u> </u>    | CSJ: 2955-01    | -007 SUBTOTA |         |        |          |          |          |            |          |            |           |          |              |          |          |              |           |
|             | CSJ 1680-04-0   |              | CS      | <br>5J |          |          |          |            |          | 1          |           | 1        | 1            | 1        | 1        |              |           |
| 127         | SMITH           | FM 2089      | 1680-0  |        |          |          |          |            |          |            |           |          |              |          |          |              | Т         |
|             |                 | -005 SUBTOTA |         |        |          |          |          |            |          |            |           |          | 1            |          |          |              | 1         |
|             | CSJ 0096-05-0   |              | CS      | <br>51 |          |          | 1        |            |          | 1          | 1         | 1        | 1            | 1        | 1        | 1            |           |
| 144         | WOOD            | FM 1801      | 0096-0. |        |          |          | I        |            |          |            | Ι         |          | I            |          |          | Ι            | $\top$    |
| <del></del> |                 | -008 SUBTOTA |         | _ 550  |          |          |          |            |          |            |           |          |              |          |          |              | +         |
|             | CSJ 2274-01-0   |              | CS      | :1     |          |          | l .      |            |          | <u>I</u>   | I         | 1        | <u> </u>     | <u> </u> | <u> </u> | <u> </u>     |           |
| 145         | WOOD            | FM 2422      | 2274-0  |        |          |          | <u> </u> |            |          |            | Ι         | 1        | I            |          | Ī        | 1            | T         |
| 143         |                 | -013 SUBTOTA |         | 1-013  |          |          |          |            |          |            |           |          | <del> </del> | +        | -        | <del> </del> | +         |
|             | C3j: 22/4-01    | -013 30B101A | LJ      |        |          |          | <u> </u> |            |          | <u> </u>   | <u> </u>  | 1        | <u> </u>     |          | <u> </u> | <u> </u>     |           |
|             | BB6:5           | CT TOTAL C   |         |        | 42.424   | 4.736    | 356      | -          | -        | 10         | 42.424    | 4.036    | 100          | 450      | 1 72     | 1            | T 33      |
|             | PROJE           | CT TOTALS    |         |        | 43,434   | 4,736    | 356      | 7          | 7        | 18         | 43,434    | 4,836    | 100          | 456      | 12       | 12           | 23        |

NOTE: 1. QUANTITIES DO NOT REFLECT LEAVE OUTS FOR INTERSECTIONS.

NOTE 2. PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.



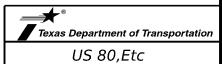
| ( | © TxD0T | 2024 | SHEET     | 7 OF    | OF 8      |  |  |
|---|---------|------|-----------|---------|-----------|--|--|
| Γ | CONT    | SECT | JOB       | HIGHWAY |           |  |  |
| Г | 0095    | 08   | 021,Etc   | US      | US 80,Etc |  |  |
| Г | DIST    |      | COUNTY    |         | SHEET NO. |  |  |
| Г | TVI     |      | SMITH Etc |         | 30        |  |  |

|      |                | THERM           | 10PI | .AS7 | TIC PAVEM | ENT MARK  | ING SUMM  | ARY (7 OF | 8)        |           |
|------|----------------|-----------------|------|------|-----------|-----------|-----------|-----------|-----------|-----------|
|      |                |                 |      |      |           |           | ITEM      | 1 678     |           |           |
| REF. |                |                 |      |      | PAVEMENT  | PAVEMENT  | PAVEMENT  | PAVEMENT  | PAVEMENT  | PAVEMENT  |
| NO.  | COUNTY         | ROADWAY         | c    | S    | SURF PREP |
|      |                |                 |      |      | FOR MRK   |
|      |                |                 |      |      | (6")      | (8")      | (24")     | (ARROW)   | (WORD)    | (YLD TRI) |
|      | CSJ 09         | 10-00-117       | •    |      | LF        | LF        | LF        | LF        | LF        | LF        |
| 101  | ANDERSON       | SL 256          | 0520 | - 09 | 3,736     | 911       | 332       | 7         | 7         | 14        |
| 102  | ANDERSON       | SH 19           | 0108 | - 06 |           |           |           |           |           |           |
| 103  | ANDERSON       | FM 315          | 0890 | - 02 | 488       |           |           |           |           |           |
| 104  | CHEROKEE       | US 79           | 0206 | - 03 | 236       |           |           |           |           |           |
| 105  | CHEROKEE       | US 79           | 0206 | - 04 |           |           |           |           |           |           |
| 107  | CHEROKEE       | FM 851          | 1150 | - 04 |           |           |           |           |           |           |
| 108  | CHEROKEE       | FM 1247         | 1387 | - 02 |           |           |           |           |           |           |
| 109  | CHEROKEE       | US 69           | 0191 | - 02 |           |           |           |           |           |           |
| 110  | CHEROKEE       | US 69           | 0199 | - 01 |           |           |           |           |           |           |
| 112  | GREGG          | FM 3053         | 3082 | - 01 |           |           |           |           |           |           |
| 113  | GREGG          | FM 2906         | 2954 | - 03 |           |           |           |           |           |           |
| 114  | HENDERSON      | SH 274          | 0561 | - 02 | 2,900     |           |           |           |           |           |
| 115  | HENDERSON      | SL 7            | 1099 | - 05 | 4,060     | 1,093     |           |           |           |           |
| 116  | HENDERSON      | BU 175 G        | 0198 | - 01 |           |           |           |           |           |           |
| 117  | HENDERSON      | US 175 W (SL 7) | 1099 | - 05 | 21,244    | 2,667     |           |           |           |           |
| 118  | HENDERSON      | FM 317          | 0889 | - 01 | 843       |           |           |           |           |           |
| 119  | HENDERSON      | SH 19           | 0108 | - 05 |           |           |           |           |           |           |
| 120  | RUSK           | FM 3135         | 3239 | - 01 |           |           |           |           |           |           |
| 121  | RUSK           | FM 1716         | 1940 | - 01 |           |           |           |           |           |           |
| 122  | RUSK           | SL 571          | 3421 | - 01 | 4,213     | 65        | 24        |           |           | 4         |
| 124  | SMITH          | SS 248          | 2558 | - 01 |           |           |           |           |           |           |
| 125  | SMITH          | FM 2661         | 2654 | 01   |           |           |           |           |           |           |
| 126  | SMITH          | SH 64           | 0245 | 06   |           |           |           |           |           |           |
| 128  | SMITH          | FM 279          | 0245 | 09   |           |           |           |           |           |           |
| 129  | SMITH          | SL 323          | 2075 | - 01 |           |           |           |           |           |           |
| 130  | SMITH          | SL 323          | 1790 | - 02 |           |           |           |           |           |           |
| CS.  | J: 0910-00-117 | SUBTOTALS (7    | OF 8 | )    | 37,720    | 4,736     | 356       | 7         | 7         | 18        |

NOTE: 1. QUANTITIES DO NOT REFLECT LEAVE OUTS FOR INTERSECTIONS. NOTE 2. PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.

|                                     |                 | THE          | RMO                                    | P        | I A S 7 | TIC DAVEM                                | ENT MARK                                 | ING SUMM                                  | ARY (8 OF                          | R)   |   |
|-------------------------------------|-----------------|--------------|--|----------|---------|--|--|---|------------------------------------|--|---|
|                                     |                 | 7112         | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | •        | LAJI    | TC TAVEL                                 | LIVI PIANK                               |   | 1678                               |  |   |
| REF.<br>NO.                         | COUNTY          | ROADWAY      |  | cs       |         | PAVEMENT<br>SURF PREP<br>FOR MRK<br>(6") | PAVEMENT<br>SURF PREP<br>FOR MRK<br>(8") | PAVEMENT<br>SURF PREP<br>FOR MRK<br>(24") | PAVEMENT SURF PREP FOR MRK (ARROW) | PAVEMENT<br>SURF PREP<br>FOR MRK<br>(WORD) | PAVEMENT<br>SURF PREP<br>FOR MRK<br>(YLD TRI) |
|                                     | CSJ 0910-00-117 |              |  |          | LF      | LF                                       | LF                                       | LF  | LF                                 | LF   |   |
| 131                                 | SMITH           | FM 850       | 1163                                   | <b>-</b> | 01      | 1,080                                    |  |   |                                    |  |   |
| 132                                 | VAN ZANDT       | FM 47        | 0646                                   | -        | 01      | 640                                      |  |   |                                    |  |   |
| 133                                 | VAN ZANDT       | SH 64        | 0245                                   | -        | 02      |  |  |   |                                    |  |   |
| 134                                 | VAN ZANDT       | SH 64        | 0245                                   | -        | 19      |  |  |   |                                    |  |   |
| 135                                 | VAN ZANDT       | FM 2475      | 3263                                   | -        | 01      |  |  |   |                                    |  |   |
| 136                                 | VAN ZANDT       | FM 316       | 0646                                   | -        | 04      |  |  |   |                                    |  |   |
| 137                                 | VAN ZANDT       | FM 2339      | 2265                                   | [-]      | 01      | 234                                      |  |   |                                    |  |   |
| 138                                 | WOOD            | FM 49        | 0647                                   | [-]      | 01      | 3,760                                    |  |   |                                    |  |   |
| 139                                 | WOOD            | FM 49        | 0647                                   | -        | 02      |  |  |   |                                    |  |   |
| 140                                 | WOOD            | SH 11        | 0083                                   | -        | 06      |  |  |   |                                    |  |   |
| 141                                 | WOOD            | US 80        | 0096                                   | -        | 01      |  |  |   |                                    |  |   |
| 142                                 | WOOD            | US 80        | 0096                                   | -        | 02      |  |  |   |                                    |  |   |
| 143                                 | WOOD            | FM 1801      | 0096                                   | -        | 05      |  |  |   |                                    |  |   |
|                                     | USE             | AS DIRECTED  |  |          |         |  |  |   |                                    |  |   |
|                                     |                 |              |  |          |         |  | ,  |   |                                    |  |   |
|                                     |                 | 17 SUBTOTAL  |  |          |         | 5,714                                    |  |   |                                    |  |   |
| CSJ: 0910-00-117 SUBTOTALS (7 OF 8) |                 |              | 37,720                                 | 4,736    | 356     | 7  | 7  | 18  |                                    |  |   |
|                                     | CSJ: 0910       | 0-00-117 TOT | ALS                                    |          |         | 43,434                                   | 4,736                                    | 356                                       | 7                                  | 7  | 18  |
|                                     |                 |              |  |          |         |  |  |   |                                    |  |   |
|                                     | CSJ 1150-04     | 1-012        | <u> </u>                               | cs       | J       |  |  |   |                                    |  |   |
| 106                                 | CHEROKEE        | FM 851       |  | )-O4     | 4-012   |  |  |   |                                    |  |   |
|                                     | CSJ: 1150-0     | 04-012 SUBTO | TALS                                   |          |         |  |  |   |                                    |  |   |
|                                     | CSJ 1608-01     | L-005        |  | cs       | J       |  |  |   |                                    |  |   |
| 111                                 | GREGG           | FM 1639      | 1608                                   | 3-0.     | 1-005   |  |  |   |                                    |  |   |
|                                     | CSJ: 1608-0     | 01-005 SUBTO | TALS                                   |          |         |  |  |   |                                    |  |   |
|                                     | CSJ 2955-01     | L-007        |  | cs       | J       |  |  |   |                                    |  |   |
| 123                                 | RUSK            | FM 2907      | 2955                                   | -0.      | 1-007   |  |  |   |                                    |  |   |
|                                     | CSJ: 2955-0     | 01-007 SUBTO | TALS                                   |          |         |  |  |   |                                    |  |   |
|                                     | CSJ 1680-04     | I-005        |  | cs       | J       |  |  |   |                                    |  |   |
| 127                                 | SMITH           | FM 2089      | 1680                                   | 0-0      | 4-005   |  |  |   |                                    |  |   |
|                                     | CSJ: 1680-0     | 04-005 SUBTO | TALS                                   |          |         |  |  |   |                                    |  |   |
|                                     | CSJ 0096-05     | 5-008        |  | cs       | J       |  | •  |   | •                                  |  | •   |
| 144                                 | WOOD            | FM 1801      | 0096                                   | i-0.     | 5-008   |  |  |   |                                    |  |   |
|                                     | CSJ: 0096-0     | 05-008 SUBTO |  |          |         |  |  |   |                                    |  |   |
|                                     | CSJ 2274-01     |              | 1                                      | cs       | J       |  | 1  |   | ı                                  | 1  |   |
| 145                                 | WOOD            | FM 2422      | _                                      |          | 1-013   |  | 1  |   |                                    |  |   |
| _ ,,                                |                 | 01-013 SUBTO |  | -        |         |  |  |   |                                    |  |   |
|                                     |                 |              |  |          |         |  | <u> </u>                                 | l   | <u> </u>                           | <u> </u>                                   | <u> </u>                                      |
|                                     | ₽₽∩             | ECT TOTALS   |  |          |         | 43,434                                   | 4,736                                    | 356                                       | 7                                  | 7  | 18  |
|                                     | FRO             | , LCI IOIALS |  |          |         | 73,737                                   | 7,730                                    | 1 330                                     | ·                                  |  | 1 10  |

NOTE: 1. QUANTITIES DO NOT REFLECT LEAVE OUTS FOR INTERSECTIONS. NOTE 2. PART OF MILESTONE. SEE GENERAL NOTES ITEM 8.



| ©TxDOT | 2024 | SHEET     | 8 OF | OF 8      |  |  |
|--------|------|-----------|------|-----------|--|--|
| CONT   | SECT | JOB       | ніс  | HWAY      |  |  |
| 0095   | 08   | 021,Etc   | US 8 | 30,Etc    |  |  |
| DIST   |      | COUNTY    |      | SHEET NO. |  |  |
| TVI    |      | SMITH Etc |      | 30        |  |  |

#### CONSTRUCTION SEQUENCE OF WORK

#### GENERAL:

- 1. THE WORK START DATE FOR THIS CONTRACT IS MARCH 1, 2024.
- 2. MOBILIZE, PLACE WORK ZONE SIGNS AND BARRICADES IN ACCORDANCE WITH APPLICABLE STANDARDS.
- 3. MAINTAIN ACCESS TO ALL SIDE STREETS AND DRIVEWAYS AT ALL TIMES WITHIN THE PROJECT LIMITS.

#### MILESTONE:

A MILESTONE IS BEING INCORPORATED INTO THE CONTRACT WITH A WORK START DATE AND BEGINNING OF WORKING DAY CHARGES OF MARCH 1, 2024.

THERMOPLASTIC STRIPING OPERATIONS "THERMO" AND SPECIFIC SEALCOAT OPERATION ITEMS "RUMBLE" TO BE COMPLETED IN 120 CALENDAR DAYS PER ITEM 8 IN GENERAL NOTES.

"THERMO": <u>ALL</u> ITEMS IN REFERENCE TO THE THERMO SECTION OF THE PLAN SET. SEE ITEM 8 IN GENERAL NOTES.

"RUMBLE": SPECIFIC ITEMS IN REFERENCE TO THE SEALCOAT SECTION OF THE PLAN SET. SEE ITEM 8 IN GENERAL NOTES.

- 1. INSTALL REFLECTORIZED PROFILE PAVEMENT MARKINGS. ("THERMO")
- 2. ELIMINATE EXISTING CONCRETE PAVEMENT MARKS AND MARKINGS. ("THERMO") \*
- 3. INSTALL PREFROMED RUMBLE STRIPS, PREFAB AND THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS. ("THERMO")
- 4. ELIMINATE EXISTING PROFILE PAVEMENT MARKINGS. ("RUMBLE")
- 5. INSTALL MILLED RUMBLE STRIPS. ("RUMBLE")
- 6. CLEANUP.

#### SEAL COAT:

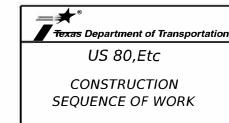
SEAL COAT OPERATIONS MAY BE PERFORMED STARTING MAY 1, 2024. (SEAL COAT SEASON BEGINS MAY 1, 2024 AND ENDS AUGUST 31, 2024)

- 1. COMPLETE SEALCOAT OPERATIONS AT ALL REFERENCE LOCATIONS.
- 2. ELIMINATE EXISTING CONCRETE PAVEMENT MARKS AND MARKINGS.\*
- 3. COMPLETE WORK ZONE STRIPING FOR ALL SEALCOAT REFERENCE LOCATIONS
- 4. PERFORM FINAL CLEANUP. \*
- 5. REMOVE ALL WORK ZONE SIGNS, AND BARRICADES.

#### NOTES:

- \* SEE GENERAL NOTE ITEM 677 FOR BRIDGE JOINT DAMAGES
- \* REFER TO GENERAL NOTES SHEET E FOR RELOCATION OF STOCKPILES





|      | 2024 | SHEET     | 1 OF 1    |
|------|------|-----------|-----------|
| CONT | SECT | JOB       | HIGHWAY   |
| 0095 | 08   | 021,Etc   | US 80,Etc |
| DIST |      | COUNTY    | SHEET NO. |
| TYL  |      | SMITH,Etc | 40        |

#### BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- 3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- 4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- 5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- 6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- 7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- 9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- 10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

#### WORKER SAFETY NOTES:

- 1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.
- 2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

#### COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

# THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD) DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS) MATERIAL PRODUCER LIST (MPL) ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)" STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD) TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) TRAFFIC ENGINEERING STANDARD SHEETS

SHEET 1 OF 12

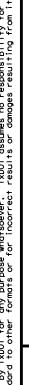


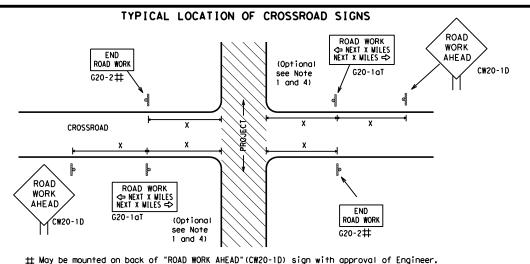
Standard

BARRICADE AND CONSTRUCTION
GENERAL NOTES
AND REQUIREMENTS

BC(1)-21

|           |                   |       | •    |           |     |       |           |
|-----------|-------------------|-------|------|-----------|-----|-------|-----------|
| FILE:     | bc-21.dgn         | DN: T | ×DOT | ck: TxDOT | DW: | T×DOT | ck: TxDOT |
| C TxD0T   | November 2002     | CONT  | SECT | JOB       |     | н     | GHWAY     |
| 4-03      | REVISIONS<br>7-13 | 0095  | 08   | 021,Et    | С   | US 8  | 30,Etc    |
| 9-07      | 8-14              | DIST  |      | COUNTY    |     |       | SHEET NO. |
| 5-10 5-21 |                   | TYL   |      | SMITH, E  | E†c |       | 41        |





 $\sharp$  May be mounted on back of "ROAD WORK AHEAD" (CW20-1D) sign with approval of Engineer. (See note 2 below)

- The typical minimum signing on a crossroad approach should be a "ROAD WORK AHEAD" (CW20-1D)sign and a (G20-2) "END ROAD WORK" sign, unless noted otherwise in plans.
- 2. The Engineer may use the reduced size 36" x 36" ROAD WORK AHEAD (CW20-1D) sign mounted back to back with the reduced size 36" x 18" "END ROAD WORK" (G20-2) sign on low volume crossroads (see Note 4 under "Typical Construction Warning Sign Size and Spacing"). See the "Standard Highway Sign Designs for Texas" manual for sign details. The Engineer may omit the advance warning signs on low volume crossroads. The Engineer will determine whether a road is low volume as per TMUTCD Part 5. This information shall be shown in the plans.
- Based on existing field conditions, the Engineer/Inspector may require additional signs such as FLAGGER AHEAD, LOOSE GRAVEL, or other appropriate signs. When additional signs are required, these signs will be considered part of the minimum requirements. The Engineer/Inspector will determine the proper location and spacing of any sign not shown on the BC sheets, Traffic Control Plan sheets or the Work Zone Standard Sheets.
- The "ROAD WORK NEXT X MILES" (G20-1aT) sign shall be required at high volume crossroads to advise motorists of the length of construction in either direction from the intersection. The Engineer will determine whether a roadway is considered high volume.
- 5. Additional traffic control devices may be shown elsewhere in the plans for higher volume crossroads.
- When work occurs in the intersection area, appropriate traffic control devices, as shown elsewhere in the plans or as determined by the Engineer/Inspector, shall be in place.

#### BEGIN T-INTERSECTION WORK ZONE ★ ★ G20-9TP ★ ★ R20-5T FINES DOUBL X R20-50TP MORKERS ARE PRESENT ROAD WORK ← NEXT X WILES X X G20-2bT WORK ZONE G20-1bTI INTERSECTED 1000'-1500' - Hwy 1 Block - City 1000'-1500' - Hwy 1 Block - City ROADWAY $\Rightarrow$ ROAD WORK G20-1bTR NEXT X MILES => WORK ZONE G20-2bT \* \* Limit BEGIN G20-5T \* \* G20-9TP ZONE TRAFFI G20-6T **★** ★ R20-5T FINES DOUBLE \* R20-5gTP BORKERS ROAD WORK G20-2

#### CSJ LIMITS AT T-INTERSECTION

- 1. The Engineer will determine the types and location of any additional traffic control devices, such as a flagger and accompanying signs, or other signs, that should be used when work is being performed at or near an intersection.
- 2. If construction closes the road at a T-intersection, the Contractor shall place the "CONTRACTOR NAME"(G20-6T) sign behind the Type 3 Barricades for the road closure (see BC(10) also). The "ROAD WORK NEXT X MILES" left arrow(G20-1bTL) and "ROAD WORK NEXT X MILES" right arrow (G20-1bTR)" signs shall be replaced by the detour signing called for in the plans.

## TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING 1,5,6

#### SIZE

| Posted<br>Speed | Sign∆<br>Spacing<br>"X" |
|-----------------|-------------------------|
| MPH             | Feet<br>(Apprx.)        |
| 30              | 120                     |
| 35              | 160                     |
| 40              | 240                     |
| 45              | 320                     |
| 50              | 400                     |
| 55              | 500 <sup>2</sup>        |
| 60              | 600 <sup>2</sup>        |
| 65              | 700 <sup>2</sup>        |
| 70              | 800 <sup>2</sup>        |
| 75              | 900 <sup>2</sup>        |
| 80              | 1000 <sup>2</sup>       |
| *               | * 3                     |

SPACING

Sign onventional Expressway/ Number Freeway or Series CW20' CW21 CW22 48" x 48" 48" × 48' CW23 CW25 CW1, CW2, CW7. CW8. 48" x 48' 36" × 36' CW9, CW11 CW14 CW3, CW4, CW5, CW6, 48" x 48" 48" x 48' CW8-3, CW10, CW12

\* For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

 $\triangle$  Minimum distance from work area to first Advance Warning sign nearest the work area and/or distance between each additional sign.

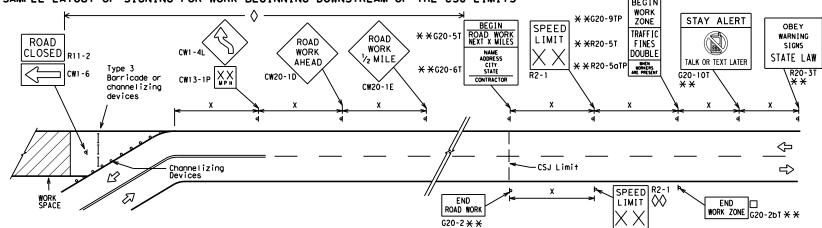
#### GENERAL NOTES

- 1. Special or larger size signs may be used as necessary.
- 2. Distance between signs should be increased as required to have 1500 feet advance warning.
- 3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
- 4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D) signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs".
- 5. Only diamond shaped warning sign sizes are indicated.
- See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design

| WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS   | SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS   |           |
|--|---|-----------|
| ROAD WORK AREA 3X CW20-1D CW13-1P  | ** ** ** ** ** ** ** ** ** ** ** ** **  | G<br>. AW |
|  | <u></u>   | _         |
|  |   |           |
| Channelizing Devices   | WORK SPACE  CSJ Limit  CSJ Limit  R2-1  R2-1  R2-1  R2-1  R2-1  R2-1  WORK ZONE  G20-2bT **                   | _         |
| When extended distances occur between minimal work spaces, the Engineer/In "ROAD WORK AHEAD" (CW20-1D) signs are placed in advance of these work areas within the project limits. See the applicable TCP sheets for exact location | spector should ensure additional with sign with sign to remind drivers they are still G20-2 ** location NOTES |           |

within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizina devices.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



The Contractor shall determine the appropriate distance to be placed on the G20-1 series signs and "BEGIN ROAD WORK NEXT X MILES" (G20-5T) sign for each specific project. This distance shall replace the "X" and shall be rounded to the nearest whole mile with the approval of the Engineer. No decimals shall be used.

- The "BEGIN WORK ZONE" (G20-9TP) and "END WORK ZONE" (G20-2b1 shall be used as shown on the sample layout when advance signs are required outside the CSJ Limits. They inform the motorist of entering or leaving a part of the work zone lying outside the CSJ Limits where traffic fines may double if workers are present.
- \*\* CSJ limit signing is required for highway construction and maintenance work, with the exception of mobile operations.
- Area for placement of "ROAD WORK AHEAD" (CW20-1D) sign and other signs or devices as called for on the Traffic
- Contractor will install a regulatory speed limit sign at the end of the work zone.

|                          | LEGEND  |  |  |  |  |  |
|--------------------------|---|--|--|--|--|--|
| I                        | Type 3 Barricade  |  |  |  |  |  |
| 000 Channelizing Devices |   |  |  |  |  |  |
| <b>▶</b>                 | Sign  |  |  |  |  |  |
| х                        | See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements. |  |  |  |  |  |

#### SHEET 2 OF 12



Traffic Safety

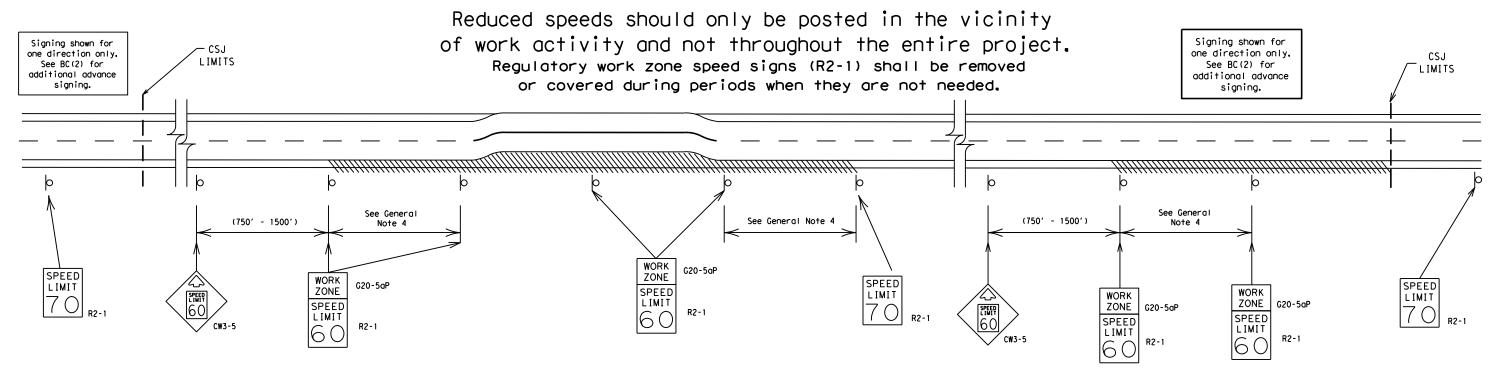
# BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-21

| ILE:  | bc-21.dgn     | DN: T> | ×DOT | ck: TxDOT | DW: | TxDO | Т ск    | k: TxDOT |
|-------|---------------|--------|------|-----------|-----|------|---------|----------|
| TxDOT | November 2002 | CONT   | SECT | JOB       |     |      | H I GHW | 'AY      |
|       | REVISIONS     | 0095   | 08   | 021,E+    | С   | US   | 80,     | ,Etc     |
| 9-07  | 8-14          | DIST   |      | COUNTY    |     |      | SHE     | ET NO.   |
| 7-13  | 5-21          | TYL    |      | SMITH, E  | :tc | :    |         | 12       |
|       |               |        |      |           |     |      |         |          |

# TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within Incorporated City Limits.



#### GUIDANCE FOR USE:

#### LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

- a) rough road or damaged pavement surface
- b) substantial alteration of roadway geometrics (diversions)
- c) construction detours
- d) grade
- e) width
- f) other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

#### SHORT TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit may be included on the design of the traffic control plans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

Short Term Work Zone Speed Limit signs should be posted and visible to the motorists only when work activity is present. When work activity is not present, signs shall be removed or covered. (See Removing or Covering on BC(4)).

#### GENERAL NOTES

- Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- 3. Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- 4. Frequency of work zone speed limit signs should be:

40 mph and greater 0.2 to 2 miles

35 mph and less 0.2 to 1 mile

- 5. Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT" (CW3-5) sign, "WORK ZONE" (G20-5aP) plaque and the "SPEED LIMIT" (R2-1) signs shall not be paid for directly, but shall be considered subsidiary to Item 502.
- 7. Turning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- 8. Techniques that may help reduce traffic speeds include but are not limited to:
  A. Law enforcement.
  - B. Flagger stationed next to sign.
  - C. Portable changeable message sign (PCMS).
  - D. Low-power (drone) radar transmitter.
  - E. Speed monitor trailers or signs.
- Speeds shown on details above are for illustration only.
   Work Zone Speed Limits should only be posted as approved for each project.
- 10. For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

SHEET 3 OF 12



Traffic Safety Division Standard

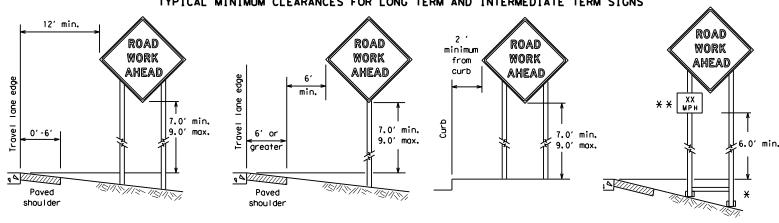
# BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

| :     | bc-21.dgn     | DN: Tx[ | T00  | ck: TxDOT | DW: | TxDOT | ck: TxDOT |
|-------|---------------|---------|------|-----------|-----|-------|-----------|
| TxDOT | November 2002 | CONT    | SECT | JOB       |     | H     | HIGHWAY   |
|       |               | 0095    | 08   | 021,Et    | С   | US    | 80,Etc    |
| 9-07  | 8-14<br>5-21  | DIST    |      | COUNTY    |     |       | SHEET NO. |
| 7-13  | 3-21          | TYL     |      | SMITH, E  | E+c |       | 43        |

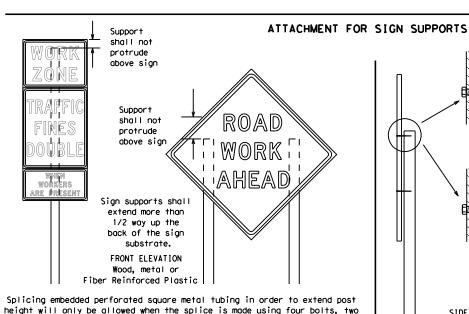
97

TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



\* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

\* \* When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.



SIDE ELEVATION Wood

Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed. Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

#### STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24". STOP/SLOW paddles shall be retroreflectorized when used at night.

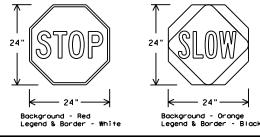
above and two below the spice point. Splice must be located entirely behind

the sign substrate, not near the base of the support. Splice insert lengths

should be at least 5 times nominal post size, centered on the splice and

of at least the same gauge material.

- 3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6' to the bottom of the sign.
- 4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



| SHEETING RE     | QUIREMEN. | (WHEN USED AT NIGHT)                             |
|-----------------|-----------|--|
| USAGE           | COLOR     | SIGN FACE MATERIAL                               |
| BACKGROUND      | RED       | TYPE B OR C SHEETING                             |
| BACKGROUND      | ORANGE    | TYPE B <sub>FL</sub> OR C <sub>FL</sub> SHEETING |
| LEGEND & BORDER | WHITE     | TYPE B OR C SHEETING                             |
| LEGEND & BORDER | BLACK     | ACRYLIC NON-REFLECTIVE FILM                      |

#### CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

- Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, specific service (LOGO), or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
- When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition. For details for covering large guide signs see the TS-CD standard.
- When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
- If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
- If permanent signs are to be removed and relocated using temporary supports. the Contractor shall use crashworthy supports as shown on the BC standard sheets, TLRS standard sheets or the CW7TCD list. The signs shall meet the required mounting heights shown on the BC, or the SMD standard sheets during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
- Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

#### GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white.
- Barricades shall NOT be used as sign supports.
- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
- The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD) for small roadside signs. Supports for temporary large roadside signs shall meet the requirements detailed on the Temporary Large Roadside Signs (TLRS) standard sheets. The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question reaardina installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
- The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

#### <u>DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)</u>

- The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
- a. Long-term stationary work that occupies a location more than 3 days.
- Intermediate-term stationary work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
- Short-term stationary daytime work that occupies a location for more than 1 hour in a single daylight period.
- Short, duration work that occupies a location up to 1 hour.
- Mobile work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

#### SIGN MOUNTING HEIGHT

- The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plagues mounted below other signs.
- The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above
- the ground. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
  - Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

#### SIZE OF SIGNS

The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

#### SIGN SUBSTRATES

- The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
- "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
- All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign face.

#### REFLECTIVE SHEETING

- 1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300
- for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
- White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
- 3. Orange sheeting, meeting the requirements of DMS-8300 Type  $B_{FL}$  or Type  $C_{FL}$ , shall be used for rigid signs with orange backgrounds.

#### SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

#### REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
- Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
- When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting. Burlap shall NOT be used to cover signs.
- Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

#### SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used. The sandbags will be tied shut to keep the sand from spilling and to maintain a

constant weight.

Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.

Sandbags shall be made of a durable material that tears upon vehicular

impact. Rubber (such as tire inner tubes) shall NOT be used. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured

with rubber bases may be used when shown on the CWZTCD list. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.

Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

#### FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used, the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

SHEET 4 OF 12



## BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

Traffic Safety Division Standard

BC(4)-21

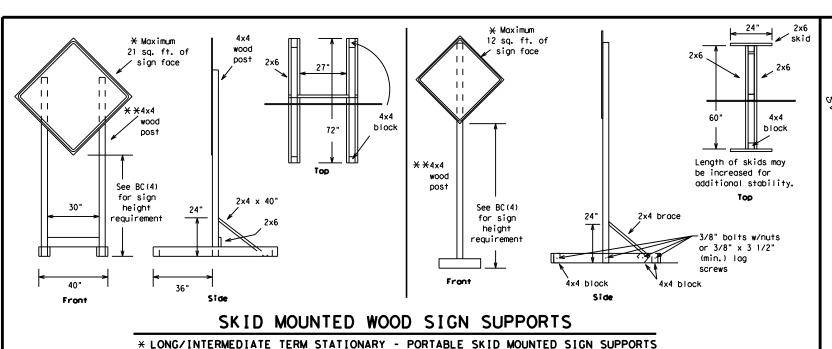
| ILE:  | bc-21.dgn     | DN: T> | ×DOT | ck: TxDOT | DW: | TxD0 | T   | ck: TxD0 | OT |
|-------|---------------|--------|------|-----------|-----|------|-----|----------|----|
| TxDOT | November 2002 | CONT   | SECT | JOB       |     |      | HIG | HWAY     |    |
|       |               | 0095   | 08   | 021,E+    | С   | US   | 8   | 0,E+c    | `` |
| 9-07  | 8-14          | DIST   |      | COUNTY    |     |      | S   | HEET NO. |    |
| 7-13  | 5-21          | TYL    |      | SMITH, E  | :tc | :    |     | 44       |    |

opposite sides going in opposite directions. Minimum

weld, do not

back fill puddle.

weld starts here



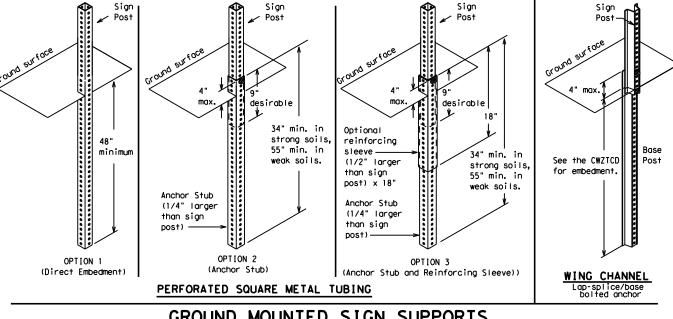
-2" x 2"

12 ga. upright

2"

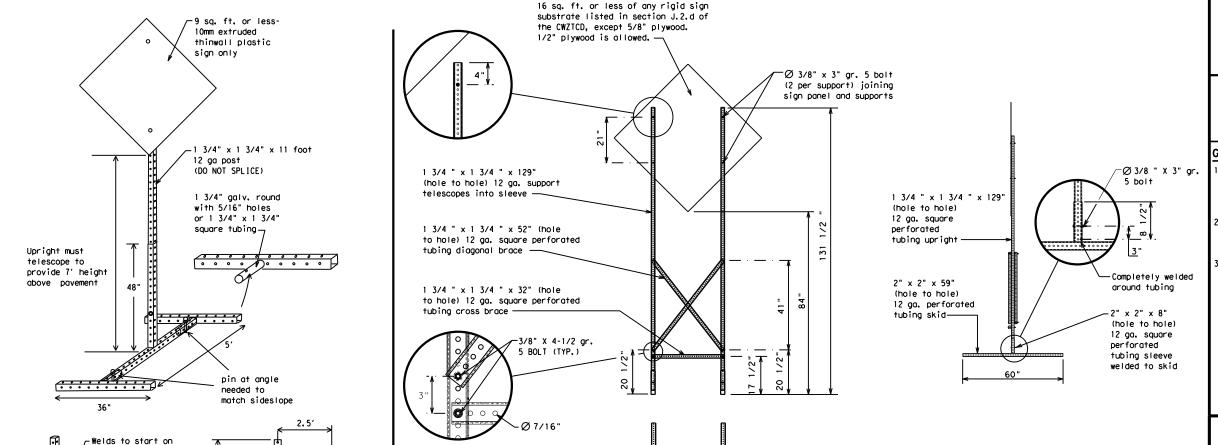
SINGLE LEG BASE

Side View



## GROUND MOUNTED SIGN SUPPORTS

Refer to the CWZTCD and the manufacturer's installation procedure for each type sign support. The maximum sign square footage shall adhere to the manufacturer's recommendation. Two post installations can be used for larger signs.



### **WEDGE ANCHORS**

Both steel and plastic Wedge Anchor Systems as shown on the SMD Standard Sheets may be used as temporary sign supports for signs up to 10 square feet of sign face. They may be set in concrete or in sturdy soils if approved by the Engineer. (See web address for "Traffic Engineering Standard Sheets" on BC(1)).

## OTHER DESIGNS

MORE DETAILS OF APPROVED LONG/INTERMEDIATE AND SHORT TERM SUPPORTS CAN BE FOUND ON THE CWZTCD LIST. SEE BC(1) FOR WEBSITE LOCATION.

#### GENERAL NOTES

- Nails may be used in the assembly of wooden sign supports, but 3/8" bolts with nuts or 3/8" x 3 1/2" lag screws must be used on every joint for final
- No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
- When project is completed, all sign supports and foundations shall be removed from the project site. This will be considered subsidiary to Item 502.
  - ★ See BC(4) for definition of "Work Duration."
  - Wood sign posts MUST be one piece. Splicing will NOT be allowed. Posts shall be painted white.
  - ☐ See the CWZTCD for the type of sign substrate that can be used for each approved sign support.

#### SHEET 5 OF 12



Traffic Safety Division Standard

## BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

# BC(5)-21

|         |               | _     |  | _         |     |       |           |
|---------|---------------|-------|--|-----------|-----|-------|-----------|
| FILE:   | bc-21.dgn     | DN: T | <dot< td=""><td>ck: TxDOT</td><td>DW:</td><td>TxDOT</td><td>ck: TxDO</td></dot<> | ck: TxDOT | DW: | TxDOT | ck: TxDO  |
| © TxDOT | November 2002 | CONT  | SECT   | JOB       |     | н     | IGHWAY    |
|         |               | 0095  | 08   | 021,Et    | ö   | US    | 80,Etc    |
| 9-07    | 8-14          | DIST  |  | COUNTY    |     |       | SHEET NO. |
| 7-13    | 5-21          | TYL   |  | SMITH, E  | E+c | :     | 45        |

| <u>SKID</u> | MOUNTED | PERFORATED | SQUARE | STEEL | TUBING | SIGN | <u>SUPPORTS</u> |  |
|-------------|---------|------------|--------|-------|--------|------|-----------------|--|
|             |         |            |        |       |        |      |                 |  |

32'

\* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

#### PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- Messages on PCMS should contain no more than 8 words (about four to eight characters per word), not including simple words such as "TO," "FOR." "AT." etc.
- 3. Messages should consist of a single phase, or two phases that alternate. Three-phase messages are not allowed. Each phase of the message should convey a single thought, and must be understood by
- 4. Use the word "EXIT" to refer to an exit ramp on a freeway; i.e., "EXIT CLOSED." Do not use the term "RAMP."
- 5. Always use the route or interstate designation (IH, US, SH, FM) along with the number when referring to a roadway.
- When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
- 7. The message term "WEEKEND" should be used only if the work is to start on Saturday morning and end by Sunday evening at midnight. Actual days and hours of work should be displayed on the PCMS if work is to begin on Friday evening and/or continue into Monday morning.
- 8. The Engineer/Inspector may select one of two options which are available for displaying a two-phase message on a PCMS. Each phase may be displayed for either four seconds each or for three seconds each.
- 9. Do not "flash" messages or words included in a message. The message should be steady burn or continuous while displayed.
- 10. Do not present redundant information on a two-phase message; i.e., keeping two lines of the message the same and changing the third line.
- 11. Do not use the word "Danger" in message.
- 12. Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- 13. Do not display messages that scroll horizontally or vertically across the face of the sign.
- 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- 15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- 16. Each line of text should be centered on the message board rather than left or right justified.
- 17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

| Access Road ACCS RD Alternate ALT Avenue AVE Best Route BEST RTE Boulevard BLVD Monday MON Bridge BRDG Cannot CANT Center CTR Construction Ahead CROSSING XING Detour Route DETOUR RTE Do Not DONT East E Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday Friday Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HAZ DRIVING Left Left Left Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL Wiles Per Hour MPH Minor MAJ Miles MI Miles MI Miles MI Miles MI Miles MI Miles Minor MNR Mondy Mon North |                    |              |                |              |
|--|--------------------|--------------|----------------|--------------|
| Alternate ALT Avenue AVE Best Route BEST RTE Boulevard BLVD Bridge BRDG Cannot CANT Center CTR Construction Ahead CROSSING XING Detour Route DETOUR RTE Do Not DONT East E Eastbound (route) E Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Moterial HAZMAT High-Occupancy Hour (s) Left Left Left Left Left Left Left Left Lone Closed LNC COSSD Miles Per Hour MPH Minor Miles Per Hour MPH Minor MPH Miles Per Hour MPH Minor MPH Monday Mon Nornal North Mondy Mon Normal Mondy Mon Normal Mondy Mon Normal Morth North Scaurday SAT Southage Faller Saturday | WORD OR PHRASE     | ABBREVIATION | WORD OR PHRASE | ABBREVIATION |
| Alternate ALT Avenue AVE Best Route BEST RTE Boulevard BLVD Bridge BRDG Cannot CANT Center CTR Construction Ahead CROSSING XING Detour Route DETOUR RTE Do Not DONT East E Eastbound (route) E Emergency EMER Emergency EMER Entrance, Enter ENT Express Lane EXPWY XXXXX Feet XXXXX FT Fog Ahead FOG AHD Freeway Blocked FWY BLKD Friday Freeway Blocked FWY BLKD Friday Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour (s) HR, HRS Information INFO It Is ITS Junction Lage Closed Lower Level LWR LEVEL Winn Miles Per Hour MPH Monday Mon Normal Northbound (route) N Parking PKING Road RD Right Lane RT LN Saturday SAT Service Road SERV RD Shoulder SHLDR Slippery SLIP Southbound (route) S Speed SPD Street ST Sunday SUN Telephone PHONE Temporary TEMP Thursday THURS Toobleta TRAF Travelers TRYLRS Trowelers TRYLRS Time Minutes TIME MIN Upper Level UPR LEVEL Vehicles (s) VEH, VEHS Warning WARN Wednesday WED Weight Limit WI LIMIT West Will Not WONT   | Access Road        | ACCS RD      | Major          | MAJ          |
| Best Route BEST RTE Boulevard BLVD Bridge BRDG Cannot CANT Center CTR Construction Ahead RD CROSSING XING Detour Route DETOUR RTE Do Not DONT East E Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Hour(s) HR, HRS Information INFO Lane Closed LN CLOSED Lower Level LWR LEVEL  Minor Monday MonN Mond Monday MonN Mond Monday Mon Mon North Monday Mon Mon North Monday Mon Mon North Monday Mon   |                    |              |                | MI           |
| Boulevard BLVD Bridge BRDG Cannot CANT Center CTR Construction Ahead CROSSING Detour Route DETOUR RTE Do Not DONT East E Eastbound (route) E Emergency EMER Entrance, Enter ENT Express Lane EXP LN Express Lane EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Hour(s) HR, HRS Information INFO Lane Closed LN CLOSED Lower Level LWR LEVEL Worthbound (route) N Normal NORM North Northound (route) N Parking PKING Road RD Right Lane Not LN Satreday Satr Southoulder SHLDR Southbound (route) S Speed SPD Street ST Sunday SUN Telephone PHONE Temporary TEMP To Downtown To DWNTN Troffic TRAF Travelers TRYLRS Travelers TRYLRS Truesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Vehicles (s) VEH, VEHS Werent Limit WT LIMIT Westbound (route) W Wednesday WED Weight Limit WT LIMIT West Pavement WET PVMT   | Avenue             | AVE          | Miles Per Hour | MPH          |
| Bridge BRDG Cannot CANT Center Construction Ahead CROSSING XING Detour Route Detour Route Do Not East Eastbound Emergency Emergency Emergency Emergency Vehicle Entrance, Enter Express Lane Express Lane Express Lane Express Lane Express Lane Express Lane Express Abadd Freeway Hour (s) Haz DRIVING Hazardous Driving Haz DRIVING Hazardous Material Hayardous Driving Haz DRIVING Hazardous Material Hayardous Driving Haz DRIVING Hayardous Driving Haz DRIVING Hazardous Material Hayardous Hov Vehicle Hwy Hour (s) HR, HRS Information INFO It Is ITS Junction JCT Left Left Left Left Left Left Left Left   | Best Route         | BEST RTE     | Minor          | MNR          |
| Cannot CANT Center CTR Construction Ahead CONST AHD Ahead RO CROSSING XING Detour Route DETOUR RTE DO Not DONT East E Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO Lane Closed LN CLOSED Lower Level LWR LEVEL  North Northbound (route) N Northbound (route) N Northbound RD RI LN Northbound RD RI LN Saturday SAT Service Road SERV RD Saturday SAT Service Road SERV RD Southbound (route) S Silppery SLIP South S Southbound (route) S Southbound (route) S Silppery SLIP South S Southbound (route) S Southbound (route) S Southbound (route) S Street ST Sunday SUN Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Westbound (route) W Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT   | Boulevard          | BLVD         | Monday         | MON          |
| Center CTR Construction Ahead Ahead CROSSING XING Detour Route DETOUR RTE Do Not DONT East E Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lone EXP LN Express Lone EXP LN Expressway EXPWY XXXX Feet XXXX FT Foq Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Hour(s) HR, HRS Information INFO Lane Closed LN CLOSED Lower Level LWR LEVEL  Northbound (route) N Parking PKING Road RD Road RD South S Soturday SAT Service Road SERV RD Shoulder SHLDR Shoulder SHLDR Street Stippery SLIP South S Southbound (route) S Speed SPD Street ST Sunday Sun Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Time Minutes TIME MIN Upper Level UPR LEVEL Westbound (route) W Wednesday WED Weight Limit WI LIMIT West Westbound (route) W Wet Pavement WET PVMT   | Bridge             | BRDG         | Normal         | NORM         |
| Construction Ahead CROSSING Detour Route Detour Route Do Not East Eastbound Emergency Emergency Emergency Entrance, Enter Express Lone Expressway XXXX Feet Fog Ahead Freeway Freeway Freeway Freeway Freeway Freeway Freeway Freeway Freeway Hour(s) Hour(s) Hour(s) Hour Information Lane Lane Lane Lane Lower Lane Lower Level Lower Lo | Cannot             | CANT         | North          | N            |
| CROSSING XING Detour Route DETOUR RTE DO Not DONT East E Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway FRWY, FWY Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Material HAZMAT High-Occupancy HOV Vehicle Highway Hour (s) HR, HRS Information INFO Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL  | Center             | CTR          | Northbound     | (route) N    |
| CROSSING XING Detour Route DETOUR RTE DO Not DONT East E Eastbound (route) E Emergency EMER Entrance, Enter ENT Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Freeway Freeway FRWY, FWY Freeway Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO Lane Closed LN CLOSED Lower Level LWR LEVEL  Right Lane RT LN Saturday SAT Service Road SERV RD Service Road SERV RD Service Road SERV RD Southens Strevice Road SERV RD Southens Silppery SLIP South S Southens Speed SPD Street ST Sunday Sun Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Weight Limit WI LIMIT West Westbound (route) W Weight Limit WI LIMIT West Pavement WEI PVMT   |                    | CONST AHD    |                |              |
| Detour Route DETOUR RTE Do Not DONT  East E Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Express Lane EXP LN Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO Lif Is ITS Junction JCT Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL  Saturday SAT Saturday SAT Saturday SAT Saturday SAT Southean Service Road SERV RD Shoulder SHLDR Shoulder SHLDR Shoulder SHLDR Shoulder SHLDR Shoulder SHLDR Shoulder SHLDR Southbound (route) S Speed SPD Street ST Sunday SUN Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Twesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Westbound (route) W Wednesday WED Weight Limit WT LIMIT West West Pavement WET PVMT Will Not  | CROSSING           | YING         |                |              |
| Do Not DONT East E Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Express Lane EXPWY XXXX Feet XXXX FI Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway How (S) Information INFO It Is ITS Junction JCT Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL  Service Road SERV RD Service Road SERV RD Service Road SERV RD Service Road SERV RD Shoulder SHUDR Shoulder SHUDR Slippery SLIP Southbound (route) S Speed SPD Street ST Sunday SUN Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Time Minutes TIME MIN Upper Level UPR LEVEL Vehicles (s) VEH, VEHS Westbound (route) W Weight Limit WT LIMIT West West Pavement WET PVMT  |                    |              |                |              |
| East Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway FRWY, FWY Freeway FRWY, FWY Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Material HAZMAT High-Occupancy HOV Vehicle Highway Hour (s) HR, HRS Information INFO It is ITS Junction JCT Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL   |                    |              |                |              |
| Eastbound (route) E Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO It Is ITS Junction JCT Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL   |                    |              |                |              |
| Emergency EMER Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO Lif Is ITS Junction JCT Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL  |                    | •            |                |              |
| Emergency Vehicle EMER VEH Entrance, Enter ENT Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle Highway Hour(s) HR, HRS Information INFO Left LST Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL  Southbound (route) S Speed SPD Street ST Southbound (route) S Speed SPD Street ST ST Southbound (route) S Speed SPD Street ST Southbound (route) S Speed SPD Street ST ST Sunday SUN Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT   |                    |              |                |              |
| Entrance, Enter ENT Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Venicle Highway Hour (s) HR, HRS Information INFO Left Lane LFT L Left Lane LFT L Lower Level WR LEVEL  Speed SPD Street ST Sunday SUN Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRVLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Weather Warning WARN Wednesday WED Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT WILL Not  |                    |              |                |              |
| Express Lane EXP LN Expressway EXPWY XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO It is ITS Junction JCT Left Lane LFT LN Lane Closed LN CLOSED Lower Level UWR LEVEL  Street ST Sunday SUN Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRVLRS Travelers TRVLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT WILL NOT  |                    |              |                |              |
| Expressway ExpWY  XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO Lt Is ITS Junction JCT Left Lane LFT L Lane Closed LN CLOSED Lower Level LWR LEVEL  Sunday SUN Telephone PHONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Travelers TRYLRS Time Minutes TIME MIN Upper Level UPR LEVEL Vehicles (s) VEH, VEHS Wershound (route) W Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT Will Not WONT   |                    |              |                |              |
| XXXX Feet XXXX FT Fog Ahead FOG AHD Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle Highway Hour(s) HR, HRS Information INFO It Is ITS Junction JCT Left Left LFT Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL  Telephone THONE Temporary TEMP Thursday THURS To Downtown TO DWNTN Troffic TRAF Travelers TRVLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Weatheaday WED Wednesday WED Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT WILL Not WONT   |                    |              |                |              |
| Fog Ahead FOG AHD Freeway FRMY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Material HAZMAT High-Occupancy HOV Vehicle Highway Hour(s) HR, HRS Information INFO It is ITS Junction JCT Left Lane LFT L Lane Closed LN CLOSED Lower Level LWR LEVEL  Temporary TEMP Temporary TEMP Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Wearling WARN Wednesday WED Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT Will Not WONT   |                    |              |                |              |
| Freeway FRWY, FWY Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO 1† Is ITS Junction JCT Left Lane LFT L Lane Closed LN CLOSED Lower Level LWR LEVEL  Thursday THURS To Downtown TO DWNTN Traffic TRAF Travelers TRYLRS Trevelers TRYLRS Twesters TRYLRS Trevelers TRYLRS Trevelers TRYLRS Trevelers TRYLRS Twesters TryLRS Twesters TRYLRS Twesters TRYLRS Twesters TRYLRS Twesters TRYLRS Trevelers TRYLRS Tre |                    |              |                |              |
| Freeway Blocked FWY BLKD Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle HWY Highway Hour(s) HR, HRS Information INFO It Is ITS Junction JCT Left Lane LFT L Lane Closed LN CLOSED Lower Level WRY LEVEL  To Downtown To DNWTN Traffic TRAF Travelers TRVLRS Travelers TRVLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Vehicles (s) VEH, VEHS Warning WARN Wednesday WED Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT Will Not WONT  |                    |              |                |              |
| Friday FRI Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle Highway Hour(s) HR, HRS Information INFO It is ITS Junction JCT Left Lane LFT LN Lane Closed LN CLOSED Lower Level WAZ DRIVING Troffic TRAF Troffic TRAF Trovelers TRVLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Vehicles (s) VEH, VEHS Warning WARN Wednesday WED Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT Will Not WONT  |                    |              |                |              |
| Hazardous Driving HAZ DRIVING Hazardous Material HAZMAT High-Occupancy HOV Vehicle Highway Hour(s) HR, HRS Information INFO It is ITS Junction JCT Left Lane LFT L Lane Closed LN CLOSED Lower Level LWR LEVEL  Travelers TRYLRS Travelers TRYLRS Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL Vehicles (s) VEH, VEHS Warning WARN Wednesday WED Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT  |                    |              |                |              |
| Hazardous Material HazMat High-Occupancy HOV Vehicle Highway Hour(s) HR, HRS Information INFO 1† Is ITS Junction JCT Left Lane LFT L Lane Closed LN CLOSED Lower Level LWR LEVEL  Tuesday TUES Time Minutes TIME MIN Upper Level UPR LEVEL  Vehicles (s) VEH, VEHS Warning WARN Wednesday WED Weight Limit WT LIMIT West Westbound (route) W Wet Pavement WET PVMT Will Not WONT   |                    |              |                |              |
| High-Occupancy HOV Vehicle Highway Hour(s) Information INFO It Is Junction Left Left Left Lane Left Lane Lower Level LWR LEVEL  HWY HOW Vehicles Upper Level UPR LEVEL Vehicles (s) VEH, VEHS Warning Wednesday WED Weight Limit West Westbound West Powement Wet Powement WET PVMT Will Not Will Not WONT   | Hazardous Material | HAZ DRIVING  |                |              |
| Vehicle Highway Hour(s) HR, HRS Information INFO It is Junction Left Left Left Left Lane Closed LN CLOSED Lower Level HWY Highway HRY HRS Upper Level Vehicles (s) VEH, VEHS Warning WaRN Wednesday WED Wednesday WED Weight Limit West Westbound (route) W Wet Pavement WET PVMT Will Not Will Not  |                    |              |                |              |
| Highway  |                    |              |                |              |
| Hour(s)  |                    | HWY          |                |              |
| Information  |                    | HR HRS       |                |              |
| It Is  |                    |              |                |              |
| Junction   |                    |              |                |              |
| Left   |                    |              |                |              |
| Left Lane LFT LN Lane Closed LN CLOSED Lower Level LWR LEVEL  Westbound (route) W Wet Pavement WET PVMT Will Not WONT  |                    |              |                |              |
| Lane Closed LN CLOSED Lower Level LWR LEVEL  WET POVEMENT WEI POWI   |                    |              |                |              |
| Lower Level LWR LEVEL  |                    |              |                |              |
|  |                    |              | Will Not       | WONT         |
| Maintenance MAINT  |                    |              |                |              |

designation # IH-number, US-number, SH-number, FM-number

# RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

(The Engineer may approve other messages not specifically covered here.)

#### Phase 1: Condition Lists

| FREEWAY<br>CLOSED  | FRONTAGE<br>ROAD    | ROADWORK<br>XXX FT                      | ROAD<br>REPAIRS    |
|--------------------|---------------------|---|--------------------|
| X MILE             | CLOSED              |   | XXXX FT            |
| ROAD<br>CLOSED     | SHOULDER<br>CLOSED  | FLAGGER<br>XXXX FT                      | L ANE<br>NARROWS   |
| AT SH XXX          | XXX FT              | *************************************** | XXXX FT            |
| ROAD               | RIGHT LN            | RIGHT LN                                | TWO-WAY            |
| CLSD AT<br>FM XXXX | CLOSED<br>XXX FT    | NARROWS<br>XXXX FT                      | TRAFFIC<br>XX MILE |
| RIGHT X            | RIGHT X             | MERGING                                 | CONST              |
| LANES<br>CLOSED    | LANES<br>OPEN       | TRAFFIC<br>XXXX FT                      | TRAFFIC<br>XXX FT  |
| CENTER             | DAYTIME             | LOOSE                                   | UNEVEN             |
| LANE<br>CLOSED     | LANE<br>CLOSURES    | GRAVEL<br>XXXX FT                       | LANES<br>XXXX FT   |
| NIGHT              | I-XX SOUTH          | DETOUR                                  | ROUGH              |
| LANE<br>CLOSURES   | EXIT<br>CLOSED      | X MILE                                  | ROAD<br>XXXX FT    |
| VARIOUS            | EXIT XXX            | ROADWORK                                | ROADWORK           |
| LANES<br>CLOSED    | CLOSED<br>X MILE    | PAST<br>SH XXXX                         | NEXT<br>FRI-SUN    |
| EXIT               | RIGHT LN            | BUMP                                    | US XXX             |
| CLOSED             | TO BE<br>CLOSED     | XXXX FT                                 | EXIT<br>X MILES    |
| MALL               | X LANES             | TRAFFIC                                 | LANES              |
| DRIVEWAY<br>CLOSED | CLOSED<br>TUE - FRI | SIGNAL<br>XXXX FT                       | SHIFT              |

# Phase 2: Possible Component Lists

| А            |                            | e/E<br>Lis | ffect on Trav              | el | Location<br>List               |          | Warning<br>List             |          | * * Advance<br>Notice List  |
|--------------|----------------------------|------------|----------------------------|----|--------------------------------|----------|-----------------------------|----------|-----------------------------|
|              | MERGE<br>RIGHT             |            | FORM<br>X LINES<br>RIGHT   |    | AT<br>FM XXXX                  |          | SPEED<br>LIMIT<br>XX MPH    |          | TUE-FRI<br>XX AM-<br>X PM   |
|              | DETOUR<br>NEXT<br>X EXITS  |            | USE<br>XXXXX<br>RD EXIT    |    | BEFORE<br>RAILROAD<br>CROSSING |          | MAXIMUM<br>SPEED<br>XX MPH  |          | APR XX-<br>XX<br>X PM-X AM  |
|              | USE<br>EXIT XXX            |            | USE EXIT<br>I-XX<br>NORTH  |    | NEXT<br>X<br>MILES             |          | MINIMUM<br>SPEED<br>XX MPH  |          | BEGINS<br>MONDAY            |
|              | STAY ON<br>US XXX<br>SOUTH |            | USE<br>I-XX E<br>TO I-XX N |    | PAST<br>US XXX<br>EXIT         |          | ADVISORY<br>SPEED<br>XX MPH |          | BEGINS<br>MAY XX            |
|              | TRUCKS<br>USE<br>US XXX N  |            | WATCH<br>FOR<br>TRUCKS     |    | XXXXXXX<br>TO<br>XXXXXXX       |          | RIGHT<br>LANE<br>EXIT       |          | MAY X-X<br>XX PM -<br>XX AM |
|              | WATCH<br>FOR<br>TRUCKS     |            | EXPECT<br>DELAYS           |    | US XXX<br>TO<br>FM XXXX        |          | USE<br>CAUTION              |          | NEXT<br>FRI-SUN             |
|              | EXPECT<br>DELAYS           |            | PREPARE<br>TO<br>STOP      |    |                                |          | DRIVE<br>SAFELY             |          | XX AM<br>TO<br>XX PM        |
|              | REDUCE<br>SPEED<br>XXX FT  |            | END<br>SHOULDER<br>USE     |    |                                |          | DRIVE<br>WITH<br>CARE       |          | NEXT<br>TUE<br>AUG XX       |
|              | USE<br>OTHER<br>ROUTES     |            | WATCH<br>FOR<br>WORKERS    |    |                                |          |                             |          | TONIGHT<br>XX PM-<br>XX AM  |
| e 2 <b>.</b> | STAY<br>IN<br>LANE         | ]<br>*     |                            |    | *                              | ¥ See A∣ | pplication Guide            | elines M | Note 6.                     |

#### APPLICATION GUIDELINES

- 1. Only 1 or 2 phases are to be used on a PCMS.
- 2. The 1st phase (or both) should be selected from the "Road/Lane/Ramp Closure List" and the "Other Condition List".
- 3. A 2nd phase can be selected from the "Action to Take/Effect on Travel, Location, General Warning, or Advance Notice Phase Lists".

- 4. A Location Phase is necessary only if a distance or location is not included in the first phase selected.
- 5. If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shall be limited to two phases, and should be understandable by themselves.
- 6. For advance notice, when the current date is within seven days of the actual work date, calendar days should be replaced with days of the week. Advance notification should typically be for no more than one week prior to the work.

#### WORDING ALTERNATIVES

- 1. The words RIGHT, LEFT and ALL can be interchanged as appropriate.
- 2. Roadway designations IH, US, SH, FM and LP can be interchanged as appropriate.
- EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- 4. Highway names and numbers replaced as appropriate.
- 5. ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- AHEAD may be used instead of distances if necessary.
- 7. FI and MI. MILE and MILES interchanged as appropriate.
- 8. AT. BEFORE and PAST interchanged as needed.
- 9. Distances or AHEAD can be eliminated from the message if a location phase is used.

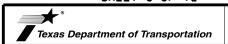
PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO ONE DIRECTION OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC. THE FOUR DRUMS SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT.

#### FULL MATRIX PCMS SIGNS

CLOSED

- 1. When Full Matrix PCMS signs are used, the character height and legibility/visibility requirements shall be maintained as listed in Note 15 under "PORTABLE CHANGEABLE MESSAGE SIGNS" above.
- 2. When symbol signs, such as the "Flagger Symbol" (CW20-7) are represented graphically on the Full Matrix PCMS sign and, with the approval of the Engineer, it shall maintain the legibility/visibility requirement listed above
- When symbol signs are represented graphically on the Full Matrix PCMS, they shall only supplement the use of the static sign represented, and shall not substitute for, or replace that sign.
- 4. A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the same size arrow.

### SHEET 6 OF 12



Traffic Safety Division Standard

# BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-21

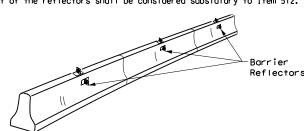
| FILE:   | bc-21.dgn     | DN: T | <dot< th=""><th>ck: TxDOT</th><th>DW:</th><th>TxDO</th><th>T</th><th>ck: TxDOT</th></dot<> | ck: TxDOT | DW: | TxDO | T    | ck: TxDOT |
|---------|---------------|-------|--|-----------|-----|------|------|-----------|
| C TxD0T | November 2002 | CONT  | SECT   | JOB       |     |      | HIGH | HWAY      |
|         | REVISIONS     | 0095  | 08   | 021,Et    | С   | US   | 80   | ),Etc     |
| 9-07    | 8-14          | DIST  |  | COUNTY    |     |      | SI   | HEET NO.  |
| 7-13    | 5-21          | TYL   |  | SMITH, E  | ŧc  |      |      | 46        |

Warning reflector may be round

or square. Must have a yellow

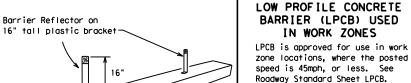
reflective surface area of at least

30 square inches



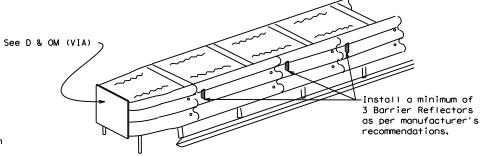
#### CONCRETE TRAFFIC BARRIER (CTB)

- 3. Where traffic is on one side of the CTB, two (2) Barrier Reflectors shall be mounted in approximately the midsection of each section of CTB. An alternate mounting location is uniformly spaced at one end of each CTB. This will allow for attachment of a barrier grapple without damaging the reflector. The Barrier Reflector mounted on the side of the CTB shall be located directly below the reflector mounted on top of the barrier, as shown in the detail above.
- 4. Where CTB separates two-way traffic, three barrier reflectors shall be mounted on each section of CTB. The reflector unit on top shall have two yellow reflective faces (Bi-Directional) while the reflectors on each side of the barrier shall have one yellow reflective face, as shown in the detail above.
- 5. When CTB separates traffic traveling in the same direction, no barrier reflectors will be required on top of the CTB.
- 6. Barrier Reflector units shall be yellow or white in color to match the edgeline being supplemented.
- 7. Maximum spacing of Barrier Reflectors is forty (40) feet.
- 8. Pavement markers or temporary flexible-reflective roadway marker tabs shall NOT be used as CTB delineation.
- 9. Attachment of Barrier Reflectors to CTB shall be per manufacturer's
- 10. Missing or damaged Barrier Reflectors shall be replaced as directed by the Engineer
- 11. Single slope barriers shall be delineated as shown on the above detail.



Max. spacing of barrier reflectors is 20 feet. Attach the delineators as per manufacturer's recommendations.

#### LOW PROFILE CONCRETE BARRIER (LPCB)



#### DELINEATION OF END TREATMENTS

#### END TREATMENTS FOR CTB'S USED IN WORK ZONES

End treatments used on CTB's in work zones shall meet the apppropriate crashworthy standards as defined in the Manual for Assessing Safety Hardware (MASH), Refer to the CWZTCD List for approved end treatments and manufacturers.

# BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS

#### WARNING LIGHTS

- 1. Warning lights shall meet the requirements of the TMUTCD.
- 2. Warning lights shall NOT be installed on barricades.
- 3. Type A-Low Intensity Flashing Warning Lights are commonly used with drums. They are intended to warn of or mark a potentially hazardous area. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "FL". The Type A Warning Lights shall not be used with signs manufactured with Type  $B_{FL}$  or  $C_{FL}$  Sheeting meeting the requirements of Departmental Material Specification DMS-8300.
- 4. Type-C and Type D 360 degree Steady Burn Lights are intended to be used in a series for delineation to supplement other traffic control devices. Their use shall be as indicated on this sheet and/or other sheets of the plans by the designation "SB".
- 5. The Engineer/Inspector or the plans shall specify the location and type of warning lights to be installed on the traffic control devices.
- 6. When required by the Engineer, the Contractor shall furnish a copy of the warning lights certification. The warning light manufacturer will certify the warning lights meet the requirements of the latest ITE Purchase Specifications for Flashing and Steady-Burn Warning Lights.
- 7. When used to delineate curves, Type-C and Type D Steady Burn Lights should only be placed on the outside of the curve, not the inside.
- 8. The location of warning lights and warning reflectors on drums shall be as shown elsewhere in the plans.

#### WARNING LIGHTS MOUNTED ON PLASTIC DRUMS

- 1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
- 2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
- 3. A series of sequential flashing warning lights placed on channelizing devices to form a merging taper may be used for delineation. If used, the successive flashing of the sequential warning lights should occur from the beginning of the taper to the end of the merging taper in order to identify the desired vehicle path. The rate of flashing for each light shall be 65 flashes per minute, plus or minus 10 flashes.
- 4. Type C and D steady-burn warning lights are intended to be used in a series to delineate the edge of the travel lane on detours, on lane changes, on lane closures, and on other similar conditions.
- 5. Type A, Type C and Type D warning lights shall be installed at locations as detailed on other sheets in the plans.
- 6. Warning lights shall not be installed on a drum that has a sign, chevron or vertical panel.
- 7. The maximum spacing for warning lights on drums should be identical to the channelizing device spacing.

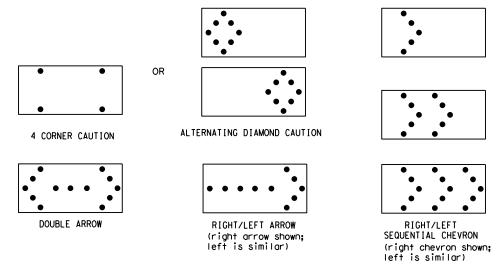
#### WARNING REFLECTORS MOUNTED ON PLASTIC DRUMS AS A SUBSTITUTE FOR TYPE C (STEADY BURN) WARNING LIGHTS

- 1. A warning reflector or approved substitute may be mounted on a plastic drum as a substitute for a Type C, steady burn warning light at the discretion of the Contractor unless otherwise noted in the plans.
- 2. The warning reflector shall be yellow in color and shall be manufactured using a sign substrate approved for use with plastic drums listed
- 3. The warning reflector shall have a minimum retroreflective surface area (one-side) of 30 square inches.
- 4. Round reflectors shall be fully reflectorized, including the area where attached to the drum.
- 5. Square substrates must have a minimum of 30 square inches of reflectorized sheeting. They do not have to be reflectorized where it attaches to the drum.
- 6. The side of the warning reflector facing approaching traffic shall have sheeting meeting the color and retroreflectivity requirements for DMS 8300-Type B or Type C.
- 7. When used near two-way traffic, both sides of the warning reflector shall be reflectorized.
- 8. The warning reflector should be mounted on the side of the handle nearest approaching traffic.
- 9. The maximum spacing for warning reflectors should be identical to the channelizing device spacing requirements.

Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

- 1. The Flashing Arrow Board should be used for all lane closures on multi-lane roadways, or slow moving maintenance or construction activities on the travel lanes.

  2. Flashing Arrow Boards should not be used on two-lane, two-way roadways, detours, diversions
- or work on shoulders unless the "CAUTION" display (see detail below) is used.
- The Engineer/Inspector shall choose all appropriate signs, barricades and/or other traffic control devices that should be used in conjunction with the Flashing Arrow Board.
- 4. The Flashing Arrow Board should be able to display the following symbols:



- 5. The "CAUTION" display consists of four corner lamps flashing simultaneously, or the Alternating Diamond Caution mode as shown.
- The straight line caution display is NOT ALLOWED.
- The Flashing Arrow Board shall be capable of minimum 50 percent dimming from rated lamp voltage.
   The flashing rate of the lamps shall not be less than 25 nor more than 40 flashes per minute.
   Minimum lamp "on time" shall be approximately 50 percent for the flashing arrow and equal

- intervals of 25 percent for each sequential phase of the flashing chevron.

  9. The sequential arrow display is NOT ALLOWED.

  10. The flashing arrow display is the TxDOT standard; however, the sequential chevron display may be used during daylight operations.

- The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
   A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
   A full matrix PCMS may be used to simulate a Flashing Arrow Board provided it meets visibility, flash rate and dimming requirements on this sheet for the same size arrow.
- 14. Minimum mounting height of trailer mounted Arrow Boards should be 7 feet from roadway to bottom of panel.

| REQUIREMENTS |                 |                                  |                                   |  |  |  |  |  |
|--------------|-----------------|----------------------------------|-----------------------------------|--|--|--|--|--|
| TYPE         | MINIMUM<br>SIZE | MINIMUM NUMBER<br>OF PANEL LAMPS | MINIMUM<br>VISIBILITY<br>DISTANCE |  |  |  |  |  |
| В            | 30 × 60         | 13                               | 3/4 mile                          |  |  |  |  |  |
| С            | 48 × 96         | 15                               | 1 mile                            |  |  |  |  |  |

ATTENTION Flashing Arrow Boards shall be equipped with automatic dimming devices.

WHEN NOT IN USE, REMOVE THE ARROW BOARD FROM THE RIGHT-OF-WAY OR PLACE THE ARROW BOARD BEHIND CONCRETE
TRAFFIC BARRIER OR GUARDRAIL.

# FLASHING ARROW BOARDS

SHEET 7 OF 12

#### TRUCK-MOUNTED ATTENUATORS

- Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the Manual for Assessing Safety Hardware (MASH).
- Refer to the CWZTCD for the requirements of Level 2 or Level 3 TMAs.
- 3. Refer to the CWZTCD for a list of approved TMAs.
- 4. TMAs are required on freeways unless otherwise noted in the plans.
- 5. A TMA should be used anytime that it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the work performance.
- The only reason a TMA should not be required is when a work area is spread down the roadway and the work crew is an extended distance from the TMA.



Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION ARROW PANEL. REFLECTORS. WARNING LIGHTS & ATTENUATOR

BC(7)-21

| FILE:     | bc-21.dgn     | DN: T | <dot< th=""><th>ck: TxDOT</th><th>DW:</th><th>TxDOT</th><th>ck: TxDOT</th></dot<> | ck: TxDOT  | DW: | TxDOT | ck: TxDOT |
|-----------|---------------|-------|---|------------|-----|-------|-----------|
| © TxD0T   | November 2002 | CONT  | SECT  | JOB        |     | HIG   | SHWAY     |
|           |               | 0095  | 08  | 021,Et     | C   | US 8  | 0,Etc     |
| 9-07      | 8-14          | DIST  | COUNTY  |            |     |       | SHEET NO. |
| 7-13 5-21 | 5-21          | TYI   |   | SMITH, Ftc |     |       | 47        |



- For long term stationary work zones on freeways, drums shall be used as the primary channelizing device.
- 2. For intermediate term stationary work zones on freeways, drums should be used as the primary channelizing device but may be replaced in tangent sections by vertical panels, or 42" two-piece cones. In tangent sections, one-piece cones may be used with the approval of the Engineer but only if personnel are present on the project at all times to maintain the cones in proper position and location.
- 3. For short term stationary work zones on freeways, drums are the preferred channelizing device but may be replaced in tapers, transitions and tangent sections by vertical panels, two-piece cones or one-piece cones as approved by the Engineer.
- 4. Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWTTCD).
- Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

#### GENERAL DESIGN REQUIREMENTS

GENERAL NOTES

Pre-qualified plastic drums shall meet the following requirements:

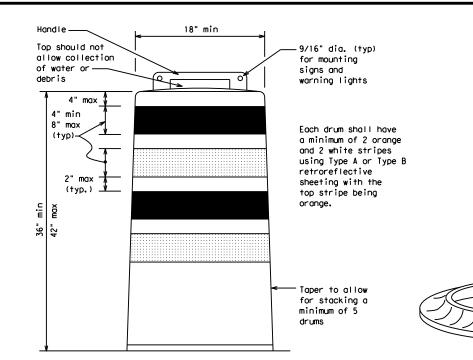
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
- Plastic drums shall be constructed of lightweight flexible, and deformable materials. The Contractor shall NOT use metal drums or single piece plastic drums as channelization devices or sign supports.
- 4. Drums shall present a profile that is a minimum of 18 inches in width at the 36 inch height when viewed from any direction. The height of drum unit (body installed on base) shall be a minimum of 36 inches and a maximum of 42 inches.
- 5. The top of the drum shall have a built-in handle for easy pickup and shall be designed to drain water and not collect debris. The handle shall have a minimum of two widely spaced 9/16 inch diameter holes to allow attachment of a warning light, warning reflector unit or approved compliant sign.
- 6. The exterior of the drum body shall have a minimum of four alternating orange and white retroreflective circumferential stripes not less than 4 inches nor greater than 8 inches in width. Any non-reflectorized space between any two adjacent stripes shall not exceed 2 inches in width.
- 7. Bases shall have a maximum width of 36 inches, a maximum height of 4 inches, and a minimum of two footholds of sufficient size to allow base to be held down while separating the drum body from the base.
- 8. Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
- 9. Drum body shall have a maximum unballasted weight of 11 lbs.
- 10. Drum and base shall be marked with manufacturer's name and model number.

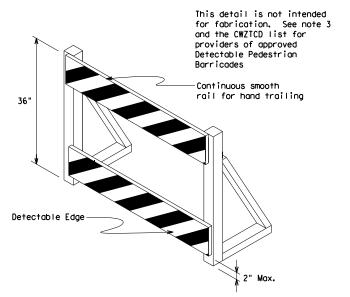
#### RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
- The sheeting shall be suitable for use on and shall adhere to the drum surface such that, upon vehicular impact, the sheeting shall remain adhered in-place and exhibit no delaminating, cracking, or loss of retroreflectivity other than that loss due to abrasion of the sheeting surface.

#### BALLAST

- 1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from the base, sand in a sand-filled plastic base, or other ballasting devices as approved by the Engineer. Stacking of sandbags will be allowed, however height of sandbags above pavement surface may not exceed 12 inches.
- Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- The ballast shall not be heavy objects, water, or any material that would become hazardous to motorists, pedestrians, or workers when the drum is struck by a vehicle.
- When used in regions susceptible to freezing, drums shall have drainage holes in the bottoms so that water will not collect and freeze becoming a hazard when struck by a vehicle.
- 6. Ballast shall not be placed on top of drums.
- 7. Adhesives may be used to secure base of drums to pavement.





#### DETECTABLE PEDESTRIAN BARRICADES

- When existing pedestrian facilities are disrupted, closed, or relocated in a TIC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures.
- Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
- Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
- 4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
- Warning lights shall not be attached to detectable pedestrian barricades.
- Detectable pedestrian barricades should use 8" nominal barricade rails as shown on BC(10) provided that the top rail provides a smooth continuous rail suitable for hand trailing with no splinters, burrs, or sharp edges.



18" x 24" Sign (Maximum Sign Dimension) Chevron CW1-8, Opposing Traffic Lane Divider, Driveway sign D70a, Keep Right R4 series or other signs as approved by Engineer

See Ballast



12" x 24"
Vertical Panel
mount with diagonals
sloping down towards
travel way

Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

- Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD.
- 2. Chevrons and other work zone signs with an orange background shall be manufactured with Type  $B_{FL}$  or Type  $C_{FL}$  Orange sheeting meeting the color and retroreflectivity requirements of DMS-8300, "Sign Face Material," unless otherwise specified in the plans.
- Vertical Panels shall be manufactured with orange and white sheeting meeting the requirements of DMS-8300 Type A or Type B. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled lane.
- 4. Other sign messages (text or symbolic) may be used as approved by the Engineer. Sign dimensions shall not exceed 18 inches in width or 24 inches in height, except for the R9 series signs discussed in note 8 below.
- Signs shall be installed using a 1/2 inch bolt (nominal) and nut, two washers, and one locking washer for each connection.
- 6. Mounting bolts and nuts shall be fully engaged and adequately torqued. Bolts should not extend more than 1/2 inch beyond puts
- 7. Chevrons may be placed on drums on the outside of curves, on merging tapers or on shifting tapers. When used in these locations, they may be placed on every drum or spaced not more than on every third drum. A minimum of three (3) should be used at each location called for in the plans.
- R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which are 24 inches wide may be mounted on plastic drums, with approval of the Engineer.

SHEET 8 OF 12

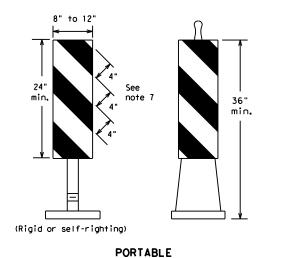
Traffic Safety



# BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

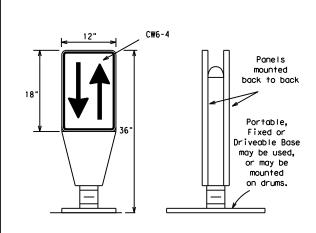
BC(8)-21

|                        | _     |   | _         |     |       |           |
|------------------------|-------|---|-----------|-----|-------|-----------|
| FILE: bc-21.dgn        | DN: T | <dot< td=""><td>ck: TxDOT</td><td>DW:</td><td>TxDOT</td><td>ск: TxDOT</td></dot<> | ck: TxDOT | DW: | TxDOT | ск: TxDOT |
| © TxDOT November 2002  | CONT  | SECT  | JOB       |     | HI    | CHWAY     |
|                        | 0095  | 08  | 021,Et    | С   | US 8  | 0,Etc     |
| 4-03 8-14<br>9-07 5-21 | DIST  |   | COUNTY    |     |       | SHEET NO. |
| 7-13                   | TYL   |   | SMITH, E  | E+c |       | 48        |



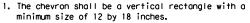
- 1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
- 2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is required. The Engineer/Inspector shall refer to the Roadway Design Manual for additional requirements on the use VP's for drop-offs.
- 3. VP's should be mounted back to back if used at the edge of cuts adjacent to two-way two lane roadways. Stripes are to be reflective orange and reflective white and should always slope downward toward the travel lane.
- VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
- Selfrighting supports are available with portable base.
   See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- Sheeting for the VP's shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
- Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.

# VERTICAL PANELS (VPs)



- 1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the povement with an adhesive or rubber weight to minimize movement caused by a vehicle impact or wind gust.
- 2. The OTLD may be used in combination with 42"
- Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.
- 4. The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD shall be retroreflective Type B<sub>FL</sub> or Type C<sub>FL</sub> conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

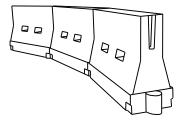


- Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.
- 3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
- 4. To be effective, the chevron should be visible for at least 500 feet.
- 5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B<sub>FL</sub> or Type C<sub>FL</sub> conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
- For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

#### CHEVRONS

#### **GENERAL NOTES**

- Work Zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- Channelizing devices shown on this sheet may have a driveable, fixed or portable base. The requirement for self-righting channelizing devices must be specified in the General Notes or other plan sheets.
- 3. Channelizing devices on self-righting supports should be used in work zone areas where channelizing devices are frequently impacted by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall be detailed elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.
- Portable bases shall be fabricated from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.
- 6. Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be prepared and applied according to the manufacturer's recommendations.
- 7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Driveable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.



#### LONGITUDINAL CHANNELIZING DEVICES (LCD)

36"

Fixed Base w/ Approved Adhesive

(Driveable Base, or Flexible

Support can be used)

- 1. LCDs are crashworthy, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.
- 2. LCDs may be used instead of a line of cones or drums.
- LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- 4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.
- 5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on BC(7) when placed roughly parallel to the travel lanes.
- 6. LCDs used as barricades placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barricade rails as shown on BC(10). Place reflective sheeting near the top of the LCD along the full length of the device.

#### WATER BALLASTED SYSTEMS USED AS BARRIERS

- Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the
  work space per the appropriate Manual for Assessing Safety Hardware (MASH) crashworthiness requirements based on
  roadway speed and barrier application.
- Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve daytime/nighttime visibility. They may also be supplemented with pavement markings.
- 3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CWZTCD list.
- 4. Water ballasted systems used as barriers should not be used for a merging taper except in low speed (less than 45 MPH urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.
- When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

If used to channelize pedestrians, longitudinal channelizing devices or water ballasted systems must have a continuous detectable bottom for users of long canes and the top of the unit shall not be less than 32 inches in height.

HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

| Posted<br>Speed | Formula            | Minimum  Desirable  Taper Lengths  ** |               |               | Suggested Maximum<br>Spacing of<br>Channelizing<br>Devices |                 |  |
|-----------------|--------------------|---------------------------------------|---------------|---------------|--|-----------------|--|
|                 |                    | 10'<br>Offset                         | 11'<br>Offset | 12'<br>Offset | On a<br>Taper  | On a<br>Tangent |  |
| 30              | 2                  | 150′                                  | 165′          | 180′          | 30'  | 60′             |  |
| 35              | L= WS <sup>2</sup> | 2051                                  | 2251          | 2451          | 35′  | 70′             |  |
| 40              | 80                 | 2651                                  | 295′          | 3201          | 40'  | 80′             |  |
| 45              |                    | 450′                                  | 495′          | 540′          | 45′  | 90′             |  |
| 50              |                    | 500′                                  | 550′          | 6001          | 50°  | 100′            |  |
| 55              | L=WS               | 550′                                  | 6051          | 6601          | 55′  | 110′            |  |
| 60              | L - 11 3           | 600'                                  | 660′          | 720′          | 60,  | 120′            |  |
| 65              |                    | 650′                                  | 715′          | 7801          | 65′  | 130′            |  |
| 70              |                    | 700′                                  | 770′          | 840′          | 70′  | 140′            |  |
| 75              |                    | 750′                                  | 825′          | 900'          | 75′  | 150′            |  |
| 80              |                    | 800′                                  | 880′          | 960′          | 80′  | 160′            |  |

\*\*X\*Taper lengths have been rounded off.
L=Length of Taper (FT.) W=Width of Offset (FT.)
S=Posted Speed (MPH)

# SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

SHEET 9 OF 12



Traffic Safety Division Standard

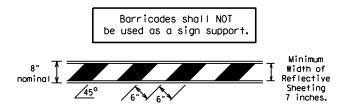
# BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-21

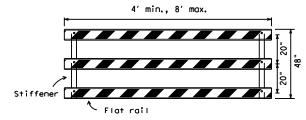
|          |               | . •   | •   |           |     |       |           |
|----------|---------------|-------|---|-----------|-----|-------|-----------|
| ILE:     | bc-21.dgn     | DN: T | <dot< th=""><th>ck: TxDOT</th><th>DW:</th><th>TxDOT</th><th>ck: TxDOT</th></dot<> | ck: TxDOT | DW: | TxDOT | ck: TxDOT |
| C) TxDOT | November 2002 | CONT  | SECT  | JOB       |     | н     | IGHWAY    |
|          |               | 0095  | 08  | 021,Et    | .с  | US    | 80,E+c    |
| 9-07     | 8-14          | DIST  |   | COUNTY    |     |       | SHEET NO. |
| 7-13     | 5-21          | TYL   |   | SMITH, E  | Etc | :     | 49        |

#### TYPE 3 BARRICADES

- 1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
- 2. Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
- 3. Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road, striping should slope downward in both directions toward the center of roadway.
- Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
- Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
- 6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
- Warning lights shall NOT be installed on barricades.
- 8. Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
- Sheeting for barricades shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

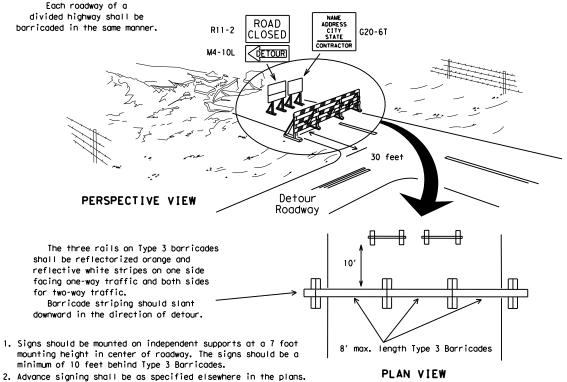


#### TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



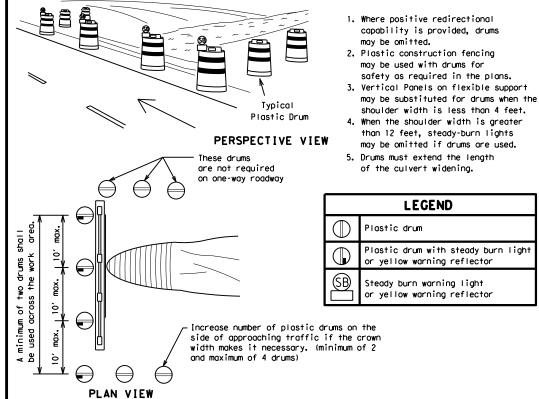
Stiffener may be inside or outside of support, but no more than 2 stiffeners shall be allowed on one barricade.

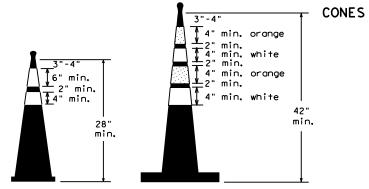
# TYPICAL PANEL DETAIL



TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION

Two-Piece cones





2" min.

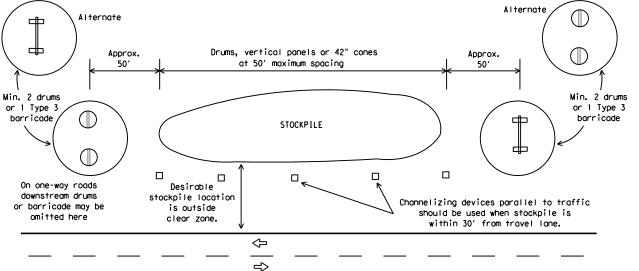
2" to 6 min.

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS

One-Piece cones

Tubular Marker





TRAFFIC CONTROL FOR MATERIAL STOCKPILES

28" Cones shall have a minimum weight of 9 1/2 lbs.

42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

- 1. Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
- 2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
- 3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
- 4. Cones or tubular markers shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A or Type B.
- 5. 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
- 6. 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
- 7. Cones or tubular markers used on each project should be of the same size and shape.





Traffic Safety Division Standard

# BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-21

| ILE:     | bc-21.dgn     | DN: T> | <dot< th=""><th>ck: TxDOT</th><th>DW:</th><th>TxD0</th><th>T</th><th>ck: TxDOT</th></dot<> | ck: TxDOT | DW: | TxD0 | T   | ck: TxDOT |
|----------|---------------|--------|--|-----------|-----|------|-----|-----------|
| C) TxDOT | November 2002 | CONT   | SECT   | JOB       |     |      | HIG | SHWAY     |
|          |               | 0095   | 08   | 021,E+    | C   | US   | 8   | 0,Etc     |
| 9-07     | 8-14          | DIST   |  | COUNTY    |     |      | S   | SHEET NO. |
| 7-13     | 5-21          | TYL    |  | SMITH, E  | :tc |      |     | 50        |

# : 9/18/2023 | 11:16:43 AM : c:\t×dot\bw\_online\txdot3\rve.redmond\d0618655\BC-21.dan

#### WORK ZONE PAVEMENT MARKINGS

#### **GENERAL**

- The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- Additional supplemental pavement marking details may be found in the plans or specifications.
- Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
- When short term markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ(STPM).
- 6. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.
- All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

#### RAISED PAVEMENT MARKERS

- Raised pavement markers are to be placed according to the patterns on BC(12).
- All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

#### PREFABRICATED PAVEMENT MARKINGS

- Removable prefabricated pavement markings shall meet the requirements of DMS-8241.
- Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

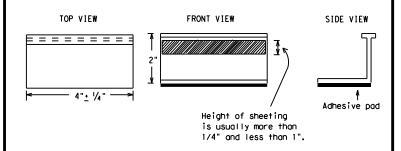
#### MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- 3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- 4. Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification 14pm 662

#### REMOVAL OF PAVEMENT MARKINGS

- Pavement markings that are no longer applicable, could create confusion or direct a motorist toward or into the closed portion of the roadway shall be removed or obliterated before the roadway is opened to traffic.
- The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
- Pavement markings shall be removed to the fullest extent possible, so as not to leave a discernable marking. This shall be by any method approved by TxDOT Specification Item 677 for "Eliminating Existing Pavement Markings and Markers".
- The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
- Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
- Blast cleaning may be used but will not be required unless specifically shown in the plans.
- 7. Over-painting of the markings SHALL NOT BE permitted.
- Removal of raised pavement markers shall be as directed by the Engineer.
- Removal of existing pavement markings and markers will be paid for directly in accordance with Item 677, "ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS," unless otherwise stated in the plans.
- 10.Black-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

# Temporary Flexible-Reflective Roadway Marker Tabs



STAPLES OR NAILS SHALL NOT BE USED TO SECURE TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS TO THE PAVEMENT SURFACE

- Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
- Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sampling and testing is not normally required, however at the option of the Engineer, either "A" or "B" below may be imposed to assure quality before placement on the roadway.
  - A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.
  - B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.
- 3. Small design variances may be noted between tab manufacturers.
- 4. See Standard Sheet WZ(STPM) for tab placement on new pavements. See Standard Sheet TCP(7-1) for tab placement on seal coat work.

#### RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

- Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
- All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
- Adhesive for guidemarks shall be bituminous material hot applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designated as:
YELLOW - (two amber reflective surfaces with yellow body).
WHITE - (one silver reflective surface with white body).

| DEPARTMENTAL MATERIAL SPECIFICATIO                    | NS       |
|---|----------|
| PAVEMENT MARKERS (REFLECTORIZED)                      | DMS-4200 |
| TRAFFIC BUTTONS                                       | DMS-4300 |
| EPOXY AND ADHESIVES                                   | DMS-6100 |
| BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS              | DMS-6130 |
| PERMANENT PREFABRICATED PAVEMENT MARKINGS             | DMS-8240 |
| TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS  | DMS-8241 |
| TEMPORARY FLEXIBLE, REFLECTIVE<br>ROADWAY MARKER TABS | DMS-8242 |

A list of prequalified reflective raised pavement markers, non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

SHEET 11 OF 12



# BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

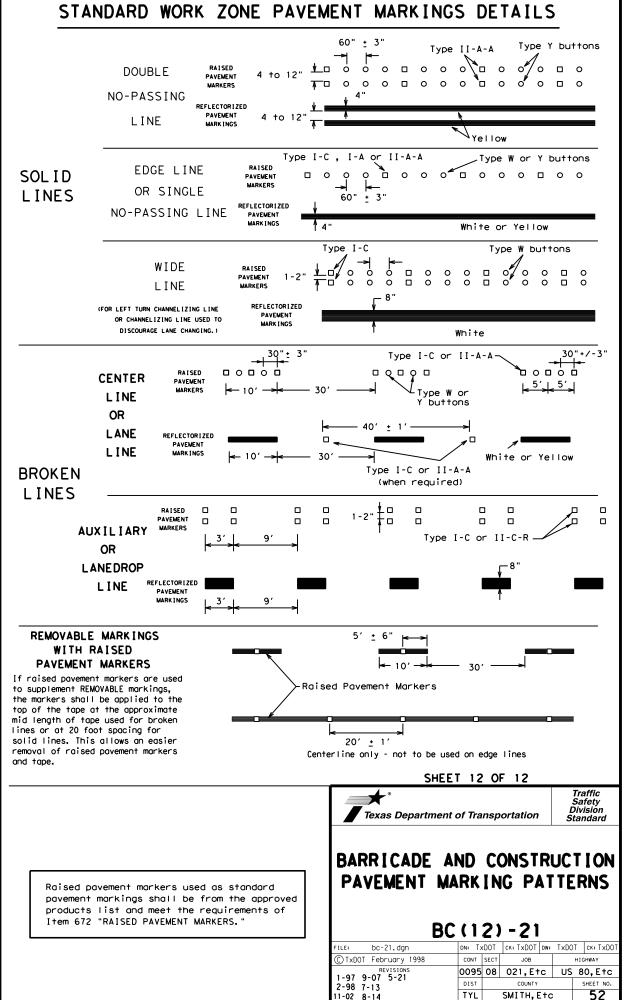
Traffic Safety

BC(11)-21

|                           |       |   | _         |     |       |           |
|---------------------------|-------|---|-----------|-----|-------|-----------|
| E: bc-21.dgn              | DN: T | <dot< td=""><td>ck: TxDOT</td><td>DW:</td><td>TxDOT</td><td>ck: TxDOT</td></dot<> | ck: TxDOT | DW: | TxDOT | ck: TxDOT |
| TxDOT February 1998       | CONT  | SECT  | JOB       |     | H]    | GHWAY     |
| REVISIONS<br>98 9-07 5-21 | 0095  | 08  | 021,Et    | С   | US 8  | 80,Etc    |
| 02 7-13                   | DIST  |   | COUNTY    |     |       | SHEET NO. |
| 02 8-14                   | TYL   |   | SMITH, E  | E†c |       | 51        |

11-02

#### PAVEMENT MARKING PATTERNS 10 to 12" Type II-A-An 1 Q O O O O O O O O O ₹> `Yellow -Type Y buttons RAISED PAVEMENT MARKERS - PATTERN A REFLECTORIZED PAVEMENT MARKINGS - PATTERN A Type II-A-A <>> □وہ/ہ□ہہہ \$\frac{1}{4 \tau 8"} Type Y Type II-A-Abuttons-REFLECTORIZED PAVEMENT MARKINGS - PATTERN B RAISED PAVEMENT MARKERS - PATTERN B Pattern A is the TXDOT Standard, however Pattern B may be used if approved by the Engineer. Prefabricated markings may be substituted for reflectorized pavement markings. CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO-LANE. TWO-WAY HIGHWAYS Type I-C Type W buttons-Type I-C or II-C-R 0000 00000 0000 Yellow Type I-A Type Y buttons ₹> Yellow White 0000 └Type I-C or II-C-R Type W buttons-REFLECTORIZED PAVEMENT MARKINGS RAISED PAVEMENT MARKERS Prefabricated markings may be substituted for reflectorized pavement markings. EDGE & LANE LINES FOR DIVIDED HIGHWAY Type I-C Type W buttons-0000 0000**0** 0000 0000 Type II-A-A Type Y buttons ♦ ₹> 0000 0000 Type W buttons-RAISED PAVEMENT MARKERS REFLECTORIZED PAVEMENT MARKINGS Prefabricated markings may be substituted for reflectorized pavement markings. LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS Type W buttons Type I-C-Type Y buttons-0 0 0 $\langle \rangle$ ₹> 0000 0000 0000 Type W buttons~ └─Type I-C REFLECTORIZED PAVEMENT MARKINGS RAISED PAVEMENT MARKERS Prefabricated markings may be substituted for reflectorized pavement markings. TWO-WAY LEFT TURN LANE



Warning Sign Sequence in Opposite Direction

ΤO

ONCOMING TRAFFIC

R1-2aP

48" X 36" (See note 8)

Channelizing devices

separate work space

from traveled way

♡□↔

Same as Below

42" X 42 " X 42

END

ROAD WORK

48" X 48"

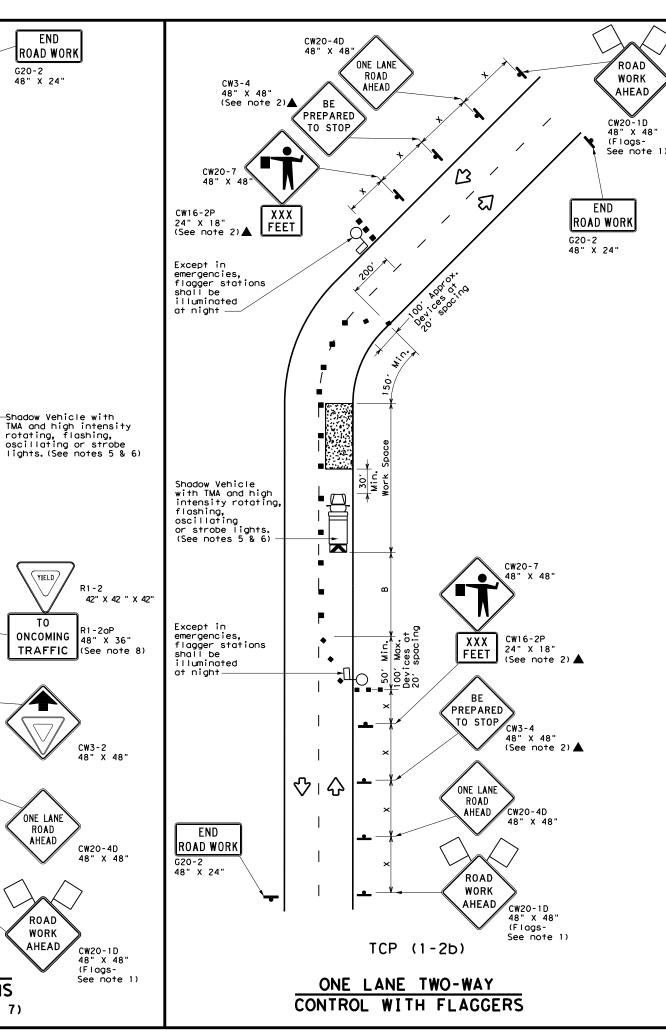
(Flags-

G20-2 48" X 24"

ONE LANE TWO-WAY

CONTROL WITH YIELD SIGNS

(Less than 2000 ADT - See note 7)



| ĺ | LEGEND     |   |     |  |  |  |  |  |  |
|---|------------|---|-----|--|--|--|--|--|--|
|   |            | Type 3 Barricade                        | 0 0 | Channelizing Devices                       |  |  |  |  |  |
|   |            | Heavy Work Vehicle                      |     | Truck Mounted<br>Attenuator (TMA)          |  |  |  |  |  |
|   |            | Trailer Mounted<br>Flashing Arrow Board | (M  | Portable Changeable<br>Message Sign (PCMS) |  |  |  |  |  |
|   | <b>þ</b>   | Sign                                    | ♡   | Traffic Flow                               |  |  |  |  |  |
| Į | $\Diamond$ | Flag                                    | Ф   | Flagger                                    |  |  |  |  |  |

| Posted<br>Speed | Formula      | D             | Minimum<br>esirab<br>er Lend<br>** | le            | Spacing of<br>Channelizing<br>Devices |                 | Minimum<br>Sign<br>Spacing<br>"x" | Suggested<br>Longitudinal<br>Buffer Space | Stopping<br>Sight<br>Distance |
|-----------------|--------------|---------------|------------------------------------|---------------|---------------------------------------|-----------------|-----------------------------------|---|-------------------------------|
| *               |              | 10'<br>Offset | 11'<br>Offset                      | 12'<br>Offset | On a<br>Taper                         | On a<br>Tangent | Distance                          | "B"                                       |                               |
| 30              | _ <u>ws²</u> | 1501          | 1651                               | 1801          | 30'                                   | 60′             | 120′                              | 90′                                       | 200'                          |
| 35              | L = WS       | 2051          | 225′                               | 245′          | 35′                                   | 701             | 160′                              | 120'                                      | 250′                          |
| 40              | 80           | 2651          | 2951                               | 3201          | 40′                                   | 80'             | 240′                              | 155′                                      | 305′                          |
| 45              |              | 450′          | 495′                               | 540′          | 45′                                   | 90'             | 3201                              | 195′                                      | 360′                          |
| 50              |              | 5001          | 550′                               | 600,          | 50′                                   | 100′            | 4001                              | 240′                                      | 425′                          |
| 55              | L=WS         | 550′          | 605′                               | 660'          | 55′                                   | 110'            | 500′                              | 295′                                      | 495′                          |
| 60              | L-#3         | 600'          | 660′                               | 720′          | 60′                                   | 120′            | 600′                              | 350 <i>′</i>                              | 570′                          |
| 65              |              | 650′          | 715′                               | 7801          | 65′                                   | 130′            | 700′                              | 410′                                      | 645′                          |
| 70              |              | 7001          | 7701                               | 840′          | 701                                   | 140′            | 800'                              | 475′                                      | 730′                          |
| 75              |              | 750'          | 825′                               | 900′          | 75′                                   | 150′            | 900′                              | 540′                                      | 820′                          |

\* Conventional Roads Only

\*\* Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

| TYPICAL USAGE |                   |                          |                                 |                         |  |  |  |
|---------------|-------------------|--------------------------|---------------------------------|-------------------------|--|--|--|
| MOBILE        | SHORT<br>DURATION | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |  |
|               | 1                 | 1                        |                                 |                         |  |  |  |

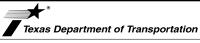
#### GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED.
- 2, All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- 3. The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- 4. Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
- 5. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 6. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

#### TCP (1-2a)

- 7. R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 400 feet.
- 8. R1-2 "YIELD" sign with "R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.

- 9. Flaggers should use two-way radios or other methods of communication to control traffic.
- 10. Length of work space should be based on the ability of flaggers to communicate.
- 11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above)
- 12. Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- 3. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

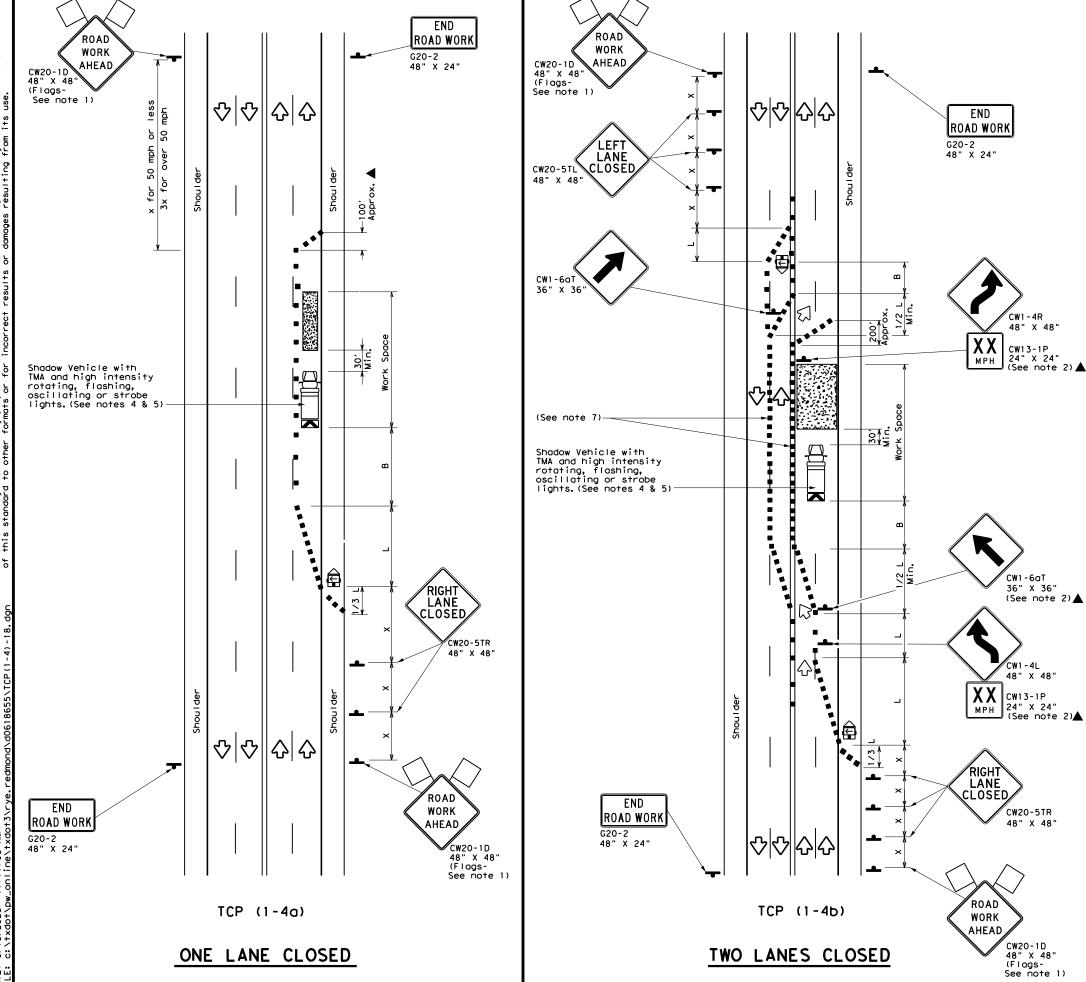


Traffic Operations Division Standard

TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL

TCP(1-2)-18

| FILE: tcp1-2-18.dgn  | DN: TXD | OT   | ck: TXDOT | DW: | TXDOT | ck: TXDOT |
|----------------------|---------|------|-----------|-----|-------|-----------|
| ℂTxDOT December 1985 | CONT    | SECT | JOB       |     |       | H]GHWAY   |
| 4-90 4-98 REVISIONS  | 0095    | 08   | 021,E1    | ö   | US    | 80,Etc    |
| 2-94 2-12            | DIST    |      | COUNTY    |     |       | SHEET NO. |
| 1-97 2-18            | TYL     |      | SMITH, I  | E†c | ;     | 53        |



|            | LEGEND                                  |    |  |  |  |  |  |  |
|------------|---|----|--|--|--|--|--|--|
| ~~~        | Type 3 Barricade                        |    | Channelizing Devices                       |  |  |  |  |  |
|            | Heavy Work Vehicle                      | K  | Truck Mounted<br>Attenuator (TMA)          |  |  |  |  |  |
| <b>E</b>   | Trailer Mounted<br>Flashing Arrow Board | M  | Portable Changeable<br>Message Sign (PCMS) |  |  |  |  |  |
| 4          | Sign                                    | ♡  | Traffic Flow                               |  |  |  |  |  |
| $\Diamond$ | Flag                                    | ПО | Flagger                                    |  |  |  |  |  |

| Posted<br>Speed | Formula                 | Minimum<br>Desirable<br>Taper Lengths<br>** |               |               | Suggested Maximum<br>Spacing of<br>Channelizing<br>Devices |      | Minimum<br>Sign<br>Spacing<br>"X" | Suggested<br>Longitudinal<br>Buffer Space |
|-----------------|-------------------------|---|---------------|---------------|--|------|-----------------------------------|---|
| *               |                         | 10'<br>Offset                               | 11'<br>Offset | 12'<br>Offset | On a<br>Taper  |      |                                   | "B"                                       |
| 30              | <u>  WS<sup>2</sup></u> | 150′  | 165′          | 180′          | 30′  | 60′  | 120′                              | 90′                                       |
| 35              | L = WS                  | 2051  | 225′          | 245'          | 35′  | 70′  | 160′                              | 120′                                      |
| 40              | 60                      | 265′  | 295′          | 3201          | 40′  | 80′  | 240′                              | 155′                                      |
| 45              |                         | 450′  | 495′          | 540'          | 45′  | 90′  | 320′                              | 195′                                      |
| 50              |                         | 500′  | 550′          | 600′          | 50'  | 100′ | 400′                              | 240′                                      |
| 55              | L=WS                    | 550′  | 605′          | 660′          | 55′  | 110' | 500′                              | 295′                                      |
| 60              | L - W 3                 | 600′  | 660′          | 720′          | 60′  | 120' | 600′                              | 350′                                      |
| 65              |                         | 650′  | 715′          | 780′          | 65′  | 130′ | 700′                              | 410'                                      |
| 70              |                         | 700′  | 770′          | 840'          | 70′  | 140' | 800′                              | 475′                                      |
| 75              |                         | 750′  | 825′          | 900′          | 75′  | 150′ | 900′                              | 540′                                      |

- \* Conventional Roads Only
- ₩ Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

| TYPICAL USAGE |                   |                          |                                 |                         |  |  |  |
|---------------|-------------------|--------------------------|---------------------------------|-------------------------|--|--|--|
| MOBILE        | SHORT<br>DURATION | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |  |
|               | 1                 | 1                        |                                 |                         |  |  |  |

#### GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer. 3. The CW20-1D "ROAD WORK AHEAD" sign may be repeated if the
- visibility of the work zone is less than 1500 feet.

  4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

6. If this TCP is used for a left lane closure , CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline where needed to protect the work space from opposing traffic with the arrow panel placed in the closed lane near the end of the merging taper.

7. Where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2S where S is the speed in mph. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

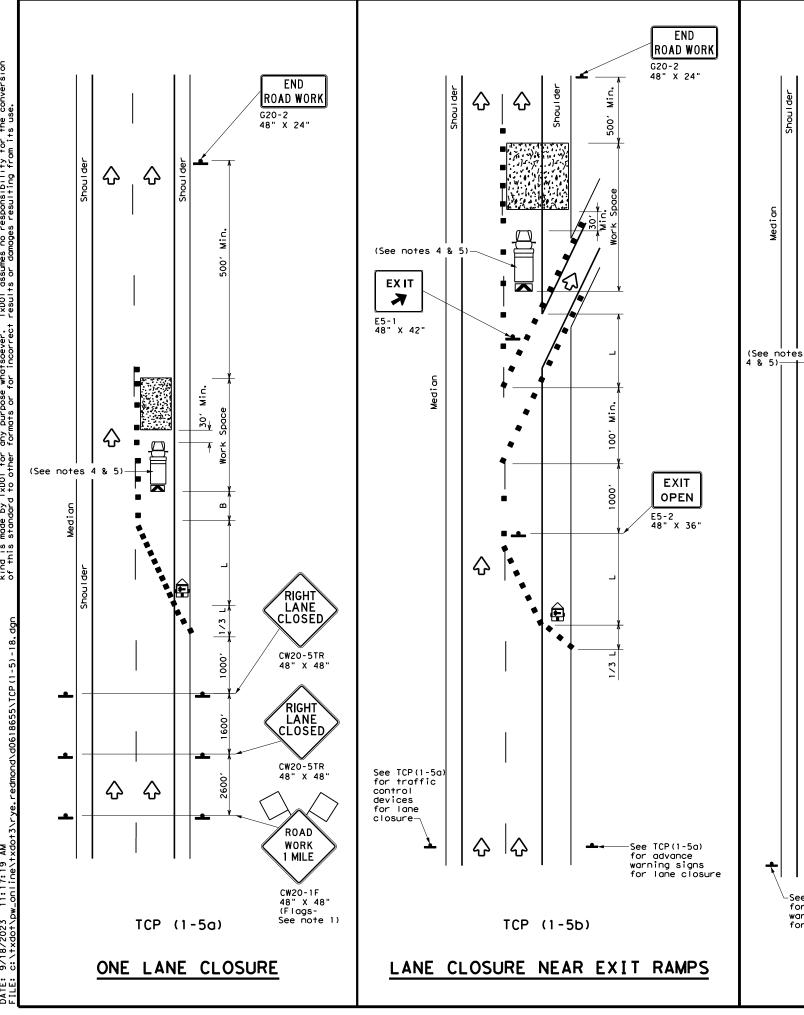


Traffic Operations Division Standard

TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP(1-4)-18

| FILE: tcp1-4-18.dgn   | DN:  |      | CK:      | DW:  | CK:       |
|-----------------------|------|------|----------|------|-----------|
| © TxDOT December 1985 | CONT | SECT | JOB      |      | HIGHWAY   |
| 2-94 4-98             | 0095 | 08   | 021,E1   | c US | 80,Etc    |
| 8-95 2-12             | DIST |      | COUNTY   |      | SHEET NO. |
| 1-97 2-18             | TYL  |      | SMITH, I | E†c  | 54        |



LEGEND Type 3 Barricade Channelizing Devices ruck Mounted Heavy Work Vehicle Attenuator (TMA) Portable Changeable Message Sign (PCMS) railer Mounted lashing Arrow Board Sign Traffic Flow  $\Diamond$ Flag Flagger

| Speed | Formula               | Minimum<br>Desirable<br>Taper Lengths<br>** |               |               | Spacing of<br>Channelizing<br>Devices |                 | Minimum<br>Sign<br>Spacing<br>"X" | Suggested<br>Longitudinal<br>Buffer Space |
|-------|-----------------------|---|---------------|---------------|---------------------------------------|-----------------|-----------------------------------|---|
| *     |                       | 10'<br>Offset                               | 11'<br>Offset | 12'<br>Offset | On a<br>Taper                         | On a<br>Tangent | Distance                          | "B"                                       |
| 30    | 2                     | 150′  | 1651          | 180′          | 30′                                   | 60′             | 120′                              | 90′                                       |
| 35    | $L = \frac{WS^2}{60}$ | 2051  | 225′          | 245'          | 35′                                   | 70′             | 160′                              | 120′                                      |
| 40    | 80                    | 265′  | 295′          | 3201          | 40′                                   | 80′             | 240′                              | 155′                                      |
| 45    |                       | 450′  | 495′          | 540′          | 45′                                   | 90′             | 3201                              | 195′                                      |
| 50    |                       | 5001  | 550′          | 600,          | 50′                                   | 100′            | 400′                              | 240′                                      |
| 55    | L=WS                  | 550′  | 605′          | 660,          | 55′                                   | 110′            | 500′                              | 295′                                      |
| 60    | L #3                  | 600'  | 660′          | 720′          | 60′                                   | 120′            | 600′                              | 350′                                      |
| 65    |                       | 650′  | 715′          | 780′          | 65′                                   | 130′            | 700′                              | 410'                                      |
| 70    |                       | 700′  | 770′          | 840′          | 70′                                   | 140′            | 800′                              | 475′                                      |
| 75    |                       | 750′  | 825′          | 900′          | 75′                                   | 150′            | 900′                              | 540′                                      |

- \* Conventional Roads Only
- XX Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

|        | TYPICAL USAGE     |                          |                                 |                         |  |  |  |  |
|--------|-------------------|--------------------------|---------------------------------|-------------------------|--|--|--|--|
| MOBILE | SHORT<br>DURATION | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |  |  |
|        |                   | 1                        |                                 |                         |  |  |  |  |

#### GENERAL NOTES

USE

NEXT

RAMP

CW25-1T 48" X 48"▲

Channelizing Devices at 20' spacing

See TCP(1-4a) for lane closure details if a lane closure is needed

to close a lane which is normally required to enter the ramp.

CW2ORP-3D 48" X 48"

RAMP

CLOSED

AHEAD

RAMP

CLOSED

R11-2bT 48" X 30'

TCP (1-5c)

LANE CLOSURE NEAR ENTRANCE RAMPS

END Road Work

**쇼 쇼** 

G20-2 48" X 24"

Min.

公

公

 $\Diamond$ 

 $\Diamond$ 

-See TCP(1-5a)

for advance warning signs for lane closure

公

- 1. Flags attached to signs where shown, are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- 3. Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
- 4. Shadow Vehicle with TMA and high intensity rotating, flashing, oscillating or strobe lights. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

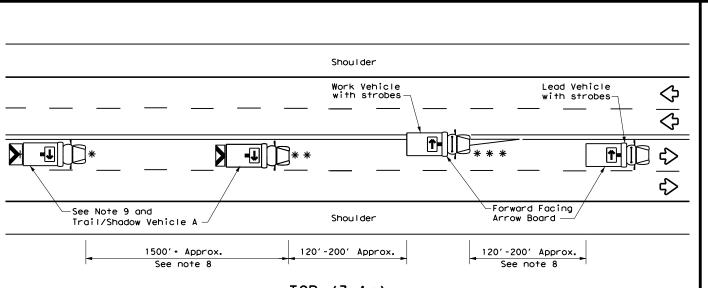
Texas Department of Transportation

TRAFFIC CONTROL PLAN LANE CLOSURES FOR DIVIDED HIGHWAYS

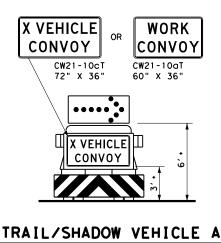
Traffic Operations Division Standard

TCP(1-5)-18

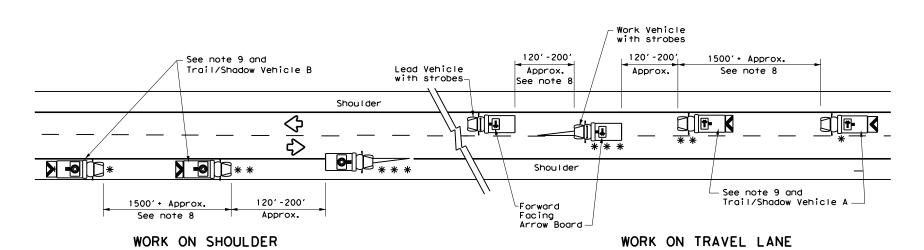
|        |               |      | _    |        |     |    |           |  |
|--------|---------------|------|------|--------|-----|----|-----------|--|
| LE: †C | p1-5-18.dgn   | DN:  |      | CK:    | DW: |    | CK:       |  |
| )TxDOT | February 2012 | CONT | SECT | JOB    |     | н  | IGHWAY    |  |
| -18    | REVISIONS     | 0095 | 08   | 021,E1 | tc  | US | 80,Etc    |  |
| -10    |               | DIST |      | COUNTY |     |    | SHEET NO. |  |
|        |               | TYL  |      | SMITH, | E†c |    | 55        |  |



# TCP (3-1a) UNDIVIDED MULTILANE ROADWAY

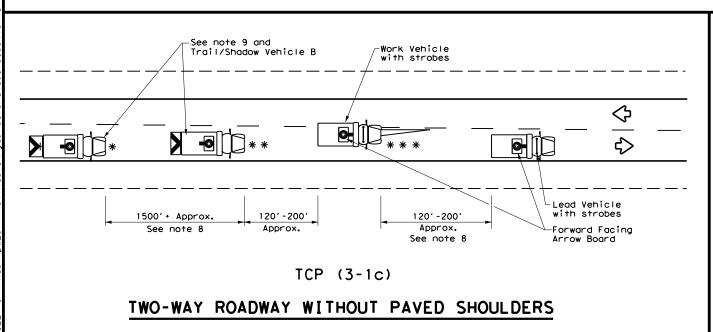


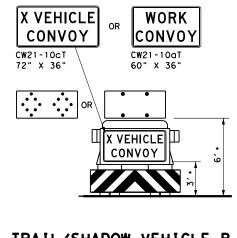
with RIGHT Directional display Flashing Arrow Board



TCP (3-1b)

# TWO-WAY ROADWAY WITH PAVED SHOULDERS





# TRAIL/SHADOW VEHICLE B

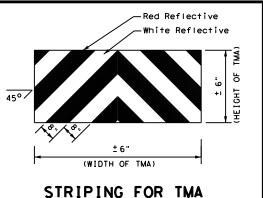
with Flashing Arrow Board in CAUTION display

|       | LEGEND                            |                     |  |  |  |  |  |  |
|-------|-----------------------------------|---------------------|--|--|--|--|--|--|
| *     | Trail Vehicle                     |                     | APPOW ROAPD DISPLAY                                |  |  |  |  |  |
| * *   | Shadow Vehicle                    | ARROW BOARD DISPLAY |  |  |  |  |  |  |
| * * * | Work Vehicle                      | <b>₽</b>            | RIGHT Directional                                  |  |  |  |  |  |
|       | Heavy Work Vehicle                | <b>F</b>            | LEFT Directional                                   |  |  |  |  |  |
|       | Truck Mounted<br>Attenuator (TMA) | <b>₩</b>            | Double Arrow                                       |  |  |  |  |  |
| ♦     | Traffic Flow                      | 0                   | CAUTION (Alternating<br>Diamond or 4 Corner Flash) |  |  |  |  |  |

| TYPICAL USAGE |                   |                          |                                 |                         |  |  |  |
|---------------|-------------------|--------------------------|---------------------------------|-------------------------|--|--|--|
| MOBILE        | SHORT<br>DURATION | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |  |
| 4             |                   |                          |                                 |                         |  |  |  |

#### GENERAL NOTES

- TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used the WORK vehicle must be equipped with an arrow board. The Engineer will determine if the LEAD VEHICLE and/or TRAIL VEHICLE are required based on prevailing roadway conditions, traffic volume, and sight distance restrictions.
- 2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
- 3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE and TRAIL VEHICLE are required.
- Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DMS 8300, Type A.
- Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the vehicle.
- Each vehicle shall have two-way radio communication capability.
- When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
- Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors.
- "X VEHICLE CONVOY" (CW21-10cT) or "WORK CONVOY" (CW21-10aT) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" X 48" diamond shaped "WORK CONVOY" (CW21-10T) or "X VEHICLE CONVOY" (CW21-10bT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The "X VEHICLE CONVOY" sign shall not be used on the SHADOW VEHICLE if a TRAIL VEHICLE is used.
- 10. On two-lane two-way roadways, the work and protection vehicles should pull over periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a "DO NOT PASS" (R4-1) sign should be placed on the back of the rearmost protection vehicle.



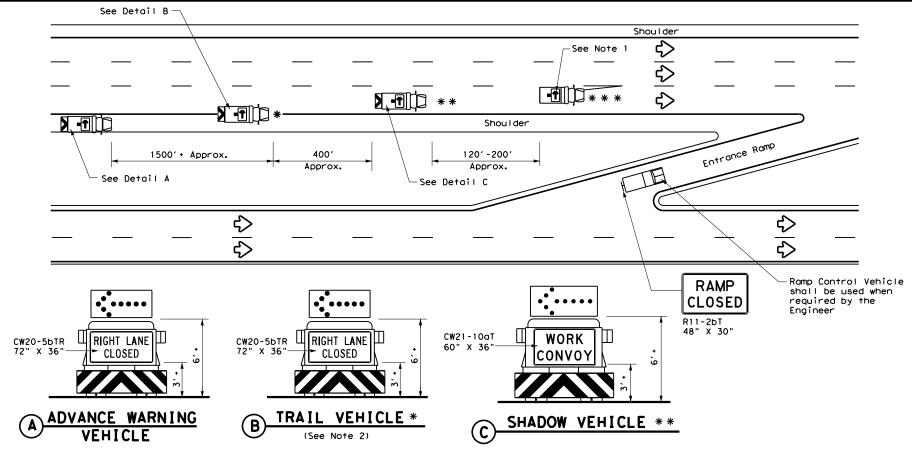


# Traffic Operations Division Standard TRAFFIC CONTROL PLAN MOBILE OPERATIONS

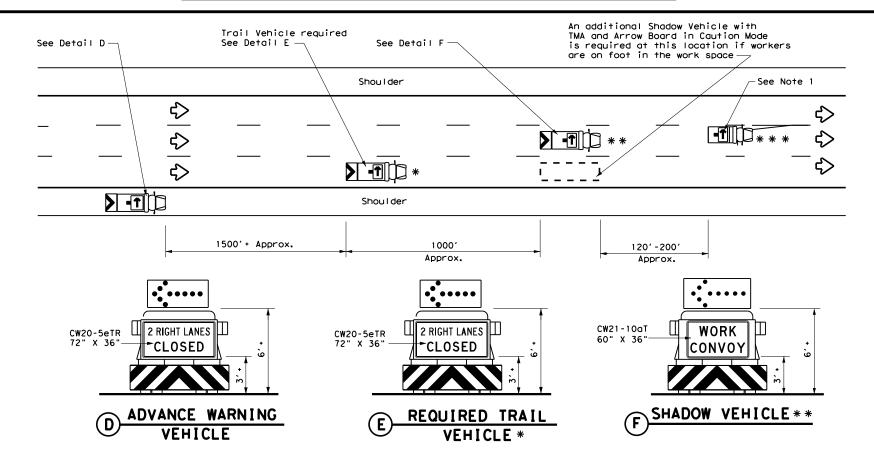
TCP (3-1)-13

|                |                |       | _    |           |      | _     |           |
|----------------|----------------|-------|------|-----------|------|-------|-----------|
| ILE:           | tcp3-1.dgn     | DN: T | ×DOT | ck: TxDOT | DW:  | TxDOT | ck: TxDOT |
| C) TxDOT       | December 1985  | CONT  | SECT | JOB       |      | н     | GHWAY     |
| 2-94 4-9       | REVISIONS<br>0 | 0095  | 08   | 021,E+    | ö    | US 8  | 80,Etc    |
| 3-95 7-1.      |                | DIST  |      | COUNTY    |      |       | SHEET NO. |
| I - <b>9</b> 7 |                | TYL   |      | SMITH, E  | : †c | :     | 56        |

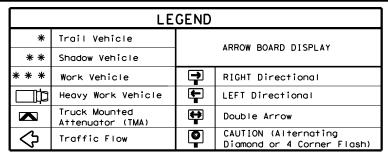
UNDIVIDED HIGHWAYS







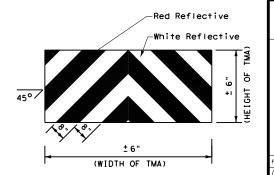
INTERIOR LANE CLOSURE ON MULTI-LANE DIVIDED HIGHWAY - TCP (3-2b)



| TYPICAL USAGE |                   |                          |                                 |                         |  |  |  |
|---------------|-------------------|--------------------------|---------------------------------|-------------------------|--|--|--|
| MOBILE        | SHORT<br>DURATION | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |  |
| 1             |                   |                          |                                 |                         |  |  |  |

#### **GENERAL NOTES**

- ADVANCE WARNING, TRAIL and SHADOW vehicles shall be equipped with Type B or Type C flashing arrow boards as per the Barricade and Construction (BC) standards. Arrow boards on WORK vehicles will be optional based on the type of work being performed. The arrow boards shall be operated from inside the vehicle.
- For TCP(3-2a) the Engineer will determine if the TRAIL VEHICLE is required based on prevailing roadway conditions, traffic volume, and sight distance restrictions. All other vehicles shown for both TCP(3-2a) and TCP(3-2b) are required.
- 3. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
- The use of truck mounted attenuators (TMA) on the ADVANCE WARNING, SHADOW, and TRAIL vehicles are required.
- Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DMS 8300, Type A.
- 6. Each vehicle shall have two-way radio communication capability.
- 7. When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.
- 8. Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE may vary according to terrain, work activity and other factors.
- 9. Standard 48"  $\times$  48" diamond shaped warning signs with the same message as those shown may be used where adequate mounting space exists.
- 10. The signs shown should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or a truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board, must be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the Advance Warning Vehicle.
- 11. Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available.
- 12. The principles on this sheet may be used to close lanes from the left side of the roadway considering the number of lanes, shoulder width, sight distance, and ramp frequency.
- 13. Signs and flashing arrow board modes shall be appropriately altered when implementing left lane closures or interior closures which close the left lanes.
- 14. The Advance Warning Vehicle may straddle the edgeline when shoulder width makes it necessary.



STRIPING FOR TMA

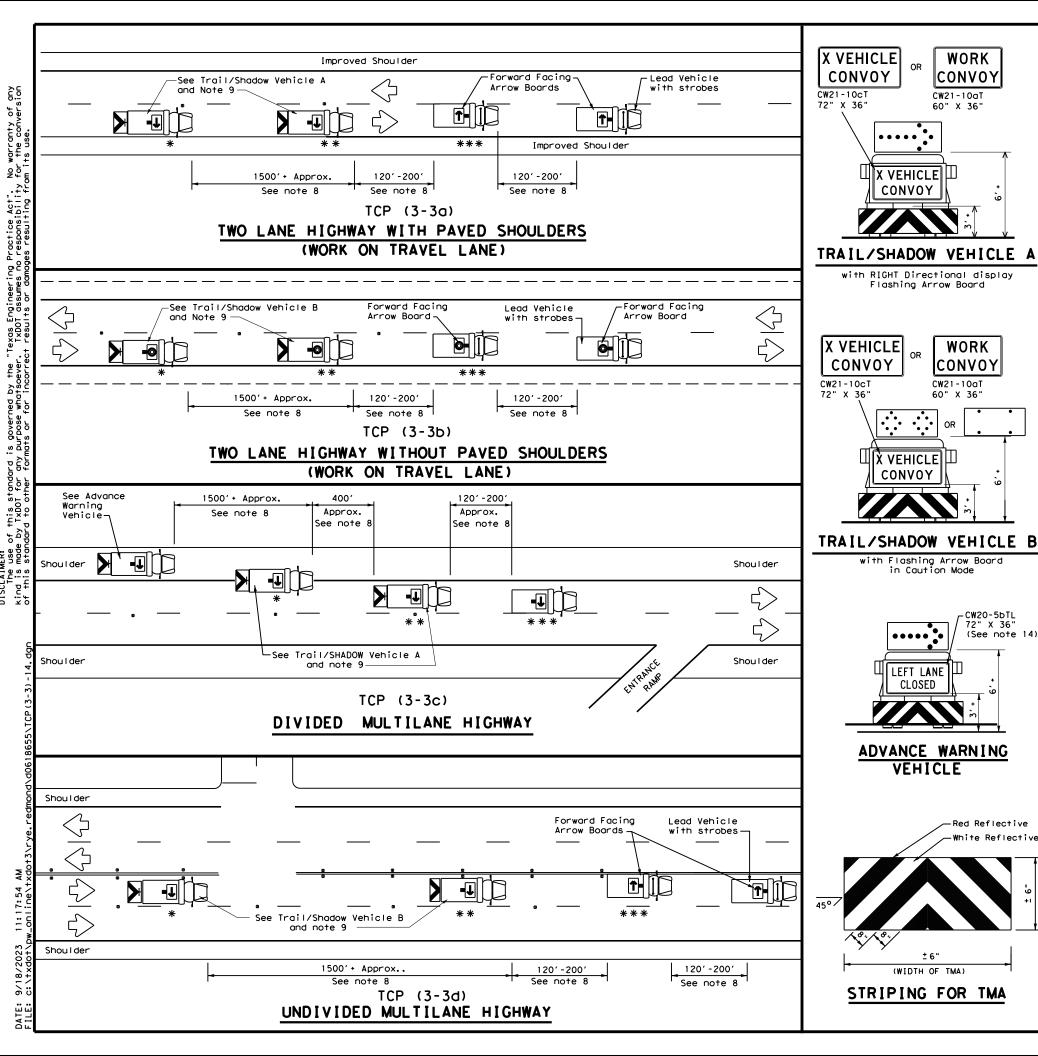


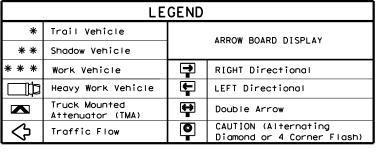
Traffic Operations Division Standard

# TRAFFIC CONTROL PLAN MOBILE OPERATIONS DIVIDED HIGHWAYS

TCP (3-2) -13

| 97                 |               | TYL   |      | SMITH, E  | tc. |       | 57        |
|--------------------|---------------|-------|------|-----------|-----|-------|-----------|
| 94 4-98<br>95 7-13 |               | DIST  |      | COUNTY    |     |       | SHEET NO. |
| 94 4-9             | REVISIONS     | 0095  | 08   | 021,Et    | С   | US 8  | 0,Etc     |
| TxDOT              | December 1985 | CONT  | SECT | JOB       |     | HIG   | GHWAY     |
| E:                 | tcp3-2.dgn    | DN: T | DOT  | ck: TxDOT | DW: | TxDOT | ck: TxDOT |





| TYPICAL USAGE |   |  |  |  |  |  |  |
|---------------|---|--|--|--|--|--|--|
| MOBILE        | MOBILE SHORT SHORT TERM INTERMEDIATE LONG TERM DURATION STATIONARY TERM STATIONARY STATIONARY |  |  |  |  |  |  |
| 1             |   |  |  |  |  |  |  |

#### GENERAL NOTES

WORK

CONVOY

WORK

CONVOY

CW21-10aT

X VEHICLE|Ш

in Caution Mode

LEFT LANE

CLOSED

VEHICLE

(WIDTH OF TMA)

CW20-5bTL 72" X 36' (See note 14)

-Red Reflective

CONVOY

CW21-10aT

60" X 36"

X VEHICLE

CONVOY

- 1. TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used on two way roads the WORK vehicle must have an arrow board. For divided roadways, the arrow board on the WORK vehicle is optional based on the type of work being performed. The Engineer will determine if the LEAD vehicle and/or TRAIL vehicle are required based on
- prevailing roadway conditions, traffic volume, and sight distance restrictions. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating, or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the omber begoons or strobe lights.
- The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE, ADVANCE WARNING and TRAIL VEHICLE are required.
- Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION
- Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the

- Each vehicle shall have two-way radio communication capability.

  When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to shadow the other convoy vehicles.

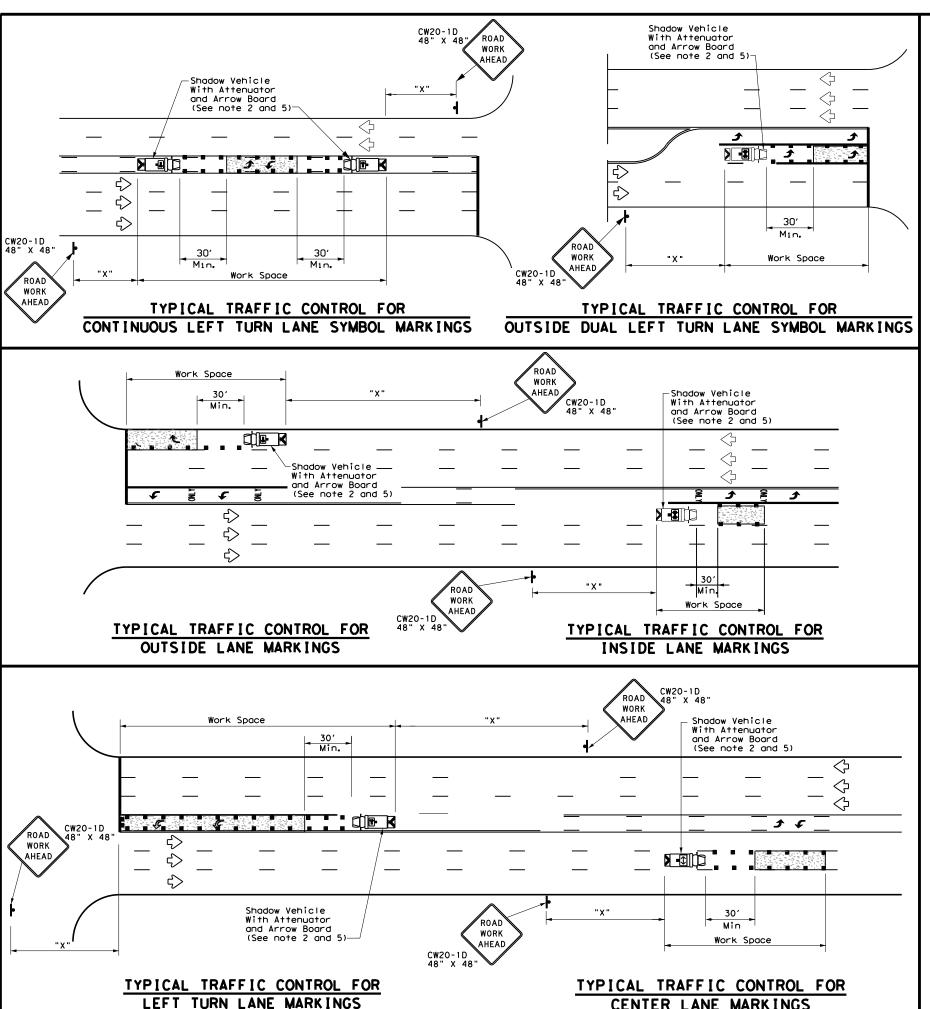
  Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK
- VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors. X VEHICLE CONVOY (CW21-10c1) or WORK CONVOY (CW21-10c1) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" x 48" diamond shaped WORK CONVOY (CW21-10T) or X VEHICLE CONVOY (CW21-10DT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The X VEHICLE CONVOY sign shall not be used on the SHADOW VEHICLE if a TRAIL VEHICLE is used.
- 10. For divided highways with two or three lanes in one direction, the appropriate LEFT LANE CLOSED (CW20-5bTL), RIGHT LANE CLOSED (CW20-5bTR), or CENTER LANE CLOSED (CW20-5dT) sign should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board may be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the Advance Warning Vehicle.
- 11.A double arrow shall not be displayed on the arrow board on the Advance Warning
- 12. For divided highways with three or four lanes in each direction, use TCP(3-2). 13. Standard diamond shape versions of the CW20-5 series signs may be used as an
- option if the rectangular signs shown are not available.
- 14. The Advance Warning Vehicle may straddle the edgeline when Shoulder width makes it necessary.
- 15.On two-lane two-way roadways, the work and protection vehicles should pull over periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a DO NOT PASS (R4-1) sign should be placed on the back of the rearmost protection vehicle.



Traffic Operations Division Standard

TRAFFIC CONTROL PLAN MOBILE OPERATIONS RAISED PAVEMENT MARKER INSTALLATION/ **REMOVAL** TCP(3-3)-14

| FILE: tcp3-3.dgn       | DN: T | <dot< th=""><th>ck: TxDOT</th><th>DW:</th><th>T×D0</th><th>T CK: TxDOT</th></dot<> | ck: TxDOT | DW: | T×D0 | T CK: TxDOT |
|------------------------|-------|--|-----------|-----|------|-------------|
| © TxDOT September 1987 | CONT  | SECT   | JOB       |     |      | HIGHWAY     |
| REVISIONS<br>2-94 4-98 | 0095  | 08   | 021,Et    | ö   | US   | 80,Etc      |
| 8-95 7-13              | DIST  |  | COUNTY    |     |      | SHEET NO.   |
| 1-97 7-14              | TYL   |  | SMITH, E  | E†c | :    | 58          |



CENTER LANE MARKINGS

|       | LEGEND                            |                       |                      |  |  |  |  |  |
|-------|-----------------------------------|-----------------------|----------------------|--|--|--|--|--|
| *     | Trail Vehicle                     |                       | ADDOW BOADD DISDLAY  |  |  |  |  |  |
| * *   | Shadow Vehicle                    | - ARROW BOARD DISPLAY |                      |  |  |  |  |  |
| * * * | Work Vehicle                      | <b>→</b>              | RIGHT Directional    |  |  |  |  |  |
|       | Heavy Work Vehicle                | <b>-</b>              | LEFT Directional     |  |  |  |  |  |
|       | Truck Mounted<br>Attenuator (TMA) | <b>#</b>              | Double Arrow         |  |  |  |  |  |
| Ç     | Traffic Flow                      |                       | Channelizing Devices |  |  |  |  |  |

| Speed | Posted Formula<br>Speed<br>* |               | Minimum Desirable Taper Lengths ** |               |               | d Maximum<br>ng of<br>lizing<br>ices | Minimum<br>Sign<br>Spacing<br>"X" | Suggested<br>Longitudinal<br>Buffer Space |
|-------|------------------------------|---------------|------------------------------------|---------------|---------------|--------------------------------------|-----------------------------------|---|
| *     |                              | 10'<br>Offset | 11'<br>Offset                      | 12'<br>Offset | On a<br>Taper | On a<br>Tangent                      | Distance                          | "В"                                       |
| 30    | WS <sup>2</sup>              | 150′          | 1651                               | 1801          | 30′           | 60′                                  | 120'                              | 90′                                       |
| 35    | L = WS                       | 2051          | 225′                               | 245'          | 35′           | 70′                                  | 160′                              | 120′                                      |
| 40    | 60                           | 265′          | 295′                               | 3201          | 40′           | 80′                                  | 240′                              | 155′                                      |
| 45    |                              | 450′          | 495′                               | 540′          | 45′           | 90′                                  | 320′                              | 195′                                      |
| 50    |                              | 5001          | 550′                               | 6001          | 50`           | 100′                                 | 400′                              | 240′                                      |
| 55    | L=WS                         | 550′          | 6051                               | 6601          | 55 <i>°</i>   | 110′                                 | 500′                              | 295′                                      |
| 60    | - ""                         | 6001          | 6601                               | 720′          | 60,           | 120'                                 | 600'                              | 350′                                      |
| 65    |                              | 650′          | 715′                               | 780′          | 65′           | 130′                                 | 700′                              | 410′                                      |
| 70    |                              | 700′          | 770′                               | 840′          | 70'           | 140′                                 | 800'                              | 475′                                      |
| 75    |                              | 750′          | 825′                               | 900′          | 75′           | 150′                                 | 900′                              | 540′                                      |

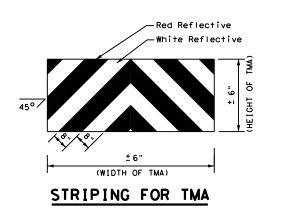
- \* Conventional Roads Only
- \*\* Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

|        | TYPICAL USAGE     |                          |                                 |                         |  |  |  |  |
|--------|-------------------|--------------------------|---------------------------------|-------------------------|--|--|--|--|
| MOBILE | SHORT<br>DURATION | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |  |  |
| 4      |                   |                          |                                 |                         |  |  |  |  |

#### **GENERAL NOTES**

- 1. This traffic control plan is for use on conventional roads posted at 45 mph or less and is intended for mobile operations that move continuously or intermittently (stopping up to approximately 15 minutes) such as short-line striping and in-lane rumble strips. When activities are anticipated to take longer amounts of time or traffic conditions warrant, a short duration or short-term stationary traffic control plan should be used.
- 2. A Truck Mounted Attenuator shall be used on Shadow Vehicle. Striping on the back panel of all truck mounted attenuators shall be 8" red and white reflective sheeting placed in an inverted "V" design. Reflective sheeting shall meet or exceed the reflectivity and color requirements of departmental material specification DMS-8300, Type A.
- 3. All traffic control devices shall be in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD), latest edition.
- 4. The use of yellow rotating beacons or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the drivers side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.
- 5. Flashing arrow board shall be used on Shadow Vehicle. Flashing arrow board shall be Type B or Type C as per BC Standards. The arrow board operation shall be controlled from inside the truck.





TRAFFIC CONTROL PLAN MOBILE OPERATIONS FOR ISOLATED WORK AREAS UNDIVIDED HIGHWAYS

TCP (3-4) -13

| LE:    | tcp3-4.dgn | DN: Tx | OOT  | ck: TxDOT | DW: | TxDOT   | ck: TxDOT |
|--------|------------|--------|------|-----------|-----|---------|-----------|
| )TxDOT | July, 2013 | CONT   | SECT | JOB       |     | HIGHWAY |           |
|        | REVISIONS  | 0095   | 08   | 021,Et    | .с  | US 8    | 30,E+c    |
|        |            | DIST   |      | COUNTY    |     |         | SHEET NO. |
|        |            | TYL    |      | SMITH, E  | E†c |         | 59        |

WORK

AHEAD

TCP (SC-1a)

ONE LANE TWO-WAY (TWO LANES)

CONTROL WITH PILOT VEHICLE

CW20-1D 48" X 48" (Flags-

see note 1)

CW20-1D 48" X 48" (Flagssee note 1)

ONE LANE

CW3-4 48" X 48

CW20-7 48" X 48

48" X 24" min.

(See note 2)

PREPARED

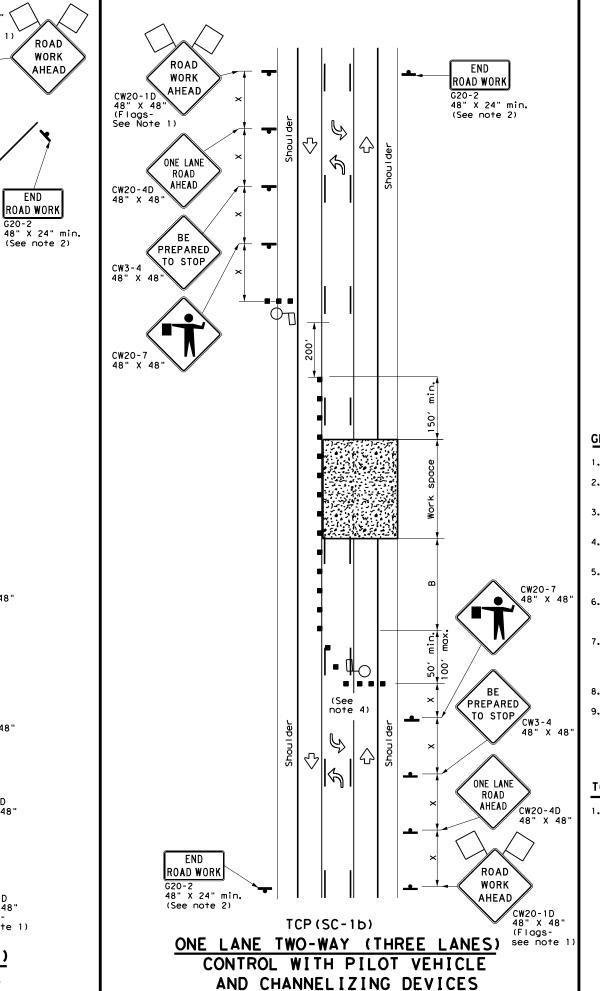
TO STOP

ROAD

WORK

AHEAD

ROAD WORK



|            | LEGEND                                  |    |  |  |  |  |  |  |  |
|------------|---|----|--|--|--|--|--|--|--|
| ~~~        | Type 3 Barricade                        |    | Channelizing Devices                       |  |  |  |  |  |  |
|            | Heavy Work Vehicle                      |    | Truck Mounted<br>Attenuator (TMA)          |  |  |  |  |  |  |
|            | Trailer Mounted<br>Flashing Arrow Board | M  | Portable Changeable<br>Message Sign (PCMS) |  |  |  |  |  |  |
| -          | Sign                                    | ♡  | Traffic Flow                               |  |  |  |  |  |  |
| $\Diamond$ | Flag                                    | ПО | Flagger                                    |  |  |  |  |  |  |

| Posted<br>Speed Formula |                     | Minimum<br>Desirable<br>Taper Lengths<br>** |               |               | Spaci:<br>Channe |                 | Minimum<br>Sign<br>Spacing<br>Distance | Suggested<br>Longitudinal<br>Buffer Space | Stopping<br>Sight<br>Distance |
|-------------------------|---------------------|---|---------------|---------------|------------------|-----------------|--|---|-------------------------------|
| ×                       |                     | 10'<br>Offset                               | 11'<br>Offset | 12'<br>Offset | On a<br>Taper    | On a<br>Tangent | "X"                                    | "B"                                       |                               |
| 30                      | 2                   | 150′  | 1651          | 1801          | 30′              | 60′             | 120′                                   | 90′                                       | 2001                          |
| 35                      | L = WS <sup>2</sup> | 2051  | 225′          | 245′          | 35′              | 70′             | 160′                                   | 120′                                      | 250′                          |
| 40                      | 80                  | 2651  | 2951          | 320′          | 40′              | 80′             | 240' 155'                              |   | 305′                          |
| 45                      |                     | 4501  | 4951          | 540′          | 45′              | 90′             | 320′                                   | 195′                                      | 360′                          |
| 50                      |                     | 500′  | 550'          | 600′          | 50′              | 100′            | 400′                                   | 240′                                      | 425′                          |
| 55                      |                     | 550′  | 6051          | 660′          | 55′              | 110′            | 500′                                   | 295′                                      | 495′                          |
| 60                      | L=WS                | 600'  | 660′          | 720′          | 60′              | 120′            | 600′                                   | 350′                                      | 570′                          |
| 65                      |                     | 650′  | 715′          | 780′          | 65′              | 130′            | 700′                                   | 410′                                      | 645′                          |
| 70                      |                     | 7001  | 770′          | 840′          | 70′              | 140′            | 800′                                   | 475′                                      | 730′                          |
| 75                      |                     | 750′  | 825′          | 900′          | 75′              | 150′            | 900′                                   | 540′                                      | 820′                          |

\* Conventional Roads Only

\*\* Taper lengths have been rounded off.

L = Length of Taper (FT) W = Width of Offset (FT) S = Posted Speed (MPH)

| TYPICAL USAGE |                   |                          |                                 |                         |  |  |
|---------------|-------------------|--------------------------|---------------------------------|-------------------------|--|--|
| MOBILE        | SHORT<br>DURATION | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |
|               | 1                 | 1                        |                                 |                         |  |  |

#### **GENERAL NOTES**

- 1. Flags attached to signs where shown are REQUIRED
- 2. All traffic control devices illustrated are REQUIRED, except: if project signing is present, END ROAD WORK (G20-2) sign is optional with approval by the Engineer.
- 3. Sign spacing may be increased or an additional ROAD WORK AHEAD (CW20-1D) sign may be used if advance warning ahead of the flagger sign is less than 1500 feet.
- Flaggers should use two-way radios or other methods of communication at all times for traffic control coordination.
- 5. Flaggers should use 24" STOP (CW20-8) / SLOW (CW20-8aT) paddles to control traffic. Flags should be limited to emergency situations.
- 6. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
- 7. If the seal coat operation crosses intersections, traffic in these areas must be controlled. Care must be taken to prevent vehicles from crossing the asphalt before the aggregate is placed. This may require positioning additional traffic control personnel (flaggers) at the intersection.
- 8. Temporary rumble strips are not required on seal coat operations.
- 9. The pilot car is used to guide vehicles through traffic control zone. The pilot car shall have an identification name displayed and PILOT CAR, FOLLOW ME (G20-4) sign or message board mounted in a conspicuous position on rear.

#### TCP (SC-1a)

1. Channelizing devices on the centerline are not required when a pilot car is leading traffic, unless directed by the Engineer.



Traffic Safety Division Standard

Texas Department of Transportation

TRAFFIC CONTROL PLAN **SEAL COAT OPERATIONS** ONE-LANE TWO-WAY

TCP (SC-1) -22

| FILE: † | cpsc-1-22.dgn | DN:  |      | CK:      | DW: |     | CK:       |
|---------|---------------|------|------|----------|-----|-----|-----------|
| C TxDOT | October 2022  | CONT | SECT | JOB      |     | ніс | HWAY      |
| 4-21    | REVISIONS     | 0095 | 08   | 021,E1   | c U | S 8 | 0,E+c     |
| 10-22   |               | DIST |      | COUNTY   |     | ,   | SHEET NO. |
|         |               | TYL  |      | SMITH, I | E†c |     | 60        |

ROAD ROAD ROAD WORK WORK WORK **AHEAD** AHEAD AHEAD CW20-10 48" X 48 CW20-1D 48" X 48" (Flags-see note 1 (Flags-see note 1) (Flags-see note 1) END G20-2 48" X 24" min. (See note 2) G20-2 G20-2 48" X 24" 48" X 24" min ROAD WORK (See note 2) ROAD WORK min. (See note 2) LEFT LANE CLOSED LANE CLOSED ,♦•  $\Diamond$   $\Diamond$   $\Diamond$  $\Diamond$ LEFT LANE CLOSED 公  $\Diamond$ CW20-5TL CW20-5TL 48" X 48" 48" X 48" CW20-5TL 48" X 48'  $\overline{\mathcal{U}}$ min. ♡ • ♡፟፟፟፟፟፟፟ **:** CW1-6aT 36" X 36" (See note 2) LEFT LANE CLOSED RIGHT LANE 48" X 48' CW20-5TL 48" X 48' RIGHT LANE CLOSED CW20-5TR  $\Box$ & & 48" X 48' ROAD CW20-5TR ROAD WORK AHEAD AHEAD CW20-1D  $|\nabla|$  $\triangle | \triangle$ |쇼|쇼 |쇼| 쇼 48" X 48" (Flags-see note 1) ROAD (Flags-see note 1) WORK AHEAD END G20-2 48" X 24" min. (See note 2) G20-2 48" X 24" min. (See note 2) END G20-2 48" X 24" min. (See note 2) END ROAD WORK CW20-1D (Flags-see note 1) TCP (SC-2a) TCP (SC-2b) TCP (SC-2c) ONE LANE CLOSED EACH DIRECTION ONE LANE CLOSED EACH DIRECTION CENTER LANES CLOSED CONTROL W/ CHANNELIZING DEVICES CONTROL W/ CHANNELIZING DEVICES CONTROL W/ CHANNELIZING DEVICES

LEGEND Type 3 Barricade Channelizing Devices Truck Mounted Attenuator (TMA) Heavy Work Vehicle Portable Changeable Message Sign (PCMS) Trailer Mounted Flashing Arrow Board  $\diamondsuit$ Traffic Flow  $\overline{\Diamond}$ Flag Flagger

| Posted<br>Speed Formul |                 | **            |               |               | Spacin<br>Channe |                 | Minimum<br>Sign<br>Spacing<br>Distance | Suggested<br>Longitudinal<br>Buffer Space |
|------------------------|-----------------|---------------|---------------|---------------|------------------|-----------------|--|---|
| *                      |                 | 10'<br>Offset | 11'<br>Offset | 12'<br>Offset | On a<br>Taper    | On a<br>Tangent | "X"                                    | "B"                                       |
| 30                     | ws <sup>2</sup> | 150′          | 165′          | 180′          | 30'              | 60′             | 120′                                   | 90′                                       |
| 35                     | L = WS          | 2051          | 2251          | 245′          | 35′              | 70′             | 160′                                   | 120′                                      |
| 40                     | 80              | 265′          | 295′          | 3201          | 40′              | 80'             | 240'                                   | 155′                                      |
| 45                     |                 | 450′          | 495′          | 540'          | 45′              | 90'             | 320'                                   | 195′                                      |
| 50                     |                 | 500'          | 550′          | 6001          | 50′              | 100′            | 400′                                   | 240′                                      |
| 55                     |                 | 550′          | 605′          | 660′          | 55′              | 110′            | 500′                                   | 295′                                      |
| 60                     | L=WS            | 600'          | 660′          | 720′          | 60′              | 120'            | 600′                                   | 350′                                      |
| 65                     | ĺ               | 650′          | 715′          | 780′          | 65′              | 130′            | 700′                                   | 410'                                      |
| 70                     |                 | 700′          | 770′          | 840'          | 70′              | 140′            | 800′                                   | 475′                                      |
| 75                     |                 | 750′          | 825′          | 900′          | 75′              | 150'            | 900′                                   | 540′                                      |

- \* Conventional Roads Only
- \*\* Taper lengths have been rounded off.
- L = Length of Taper (FT) W = Width of Offset (FT)
- S = Posted Speed (MPH)

| TYPICAL USAGE |   |  |  |  |  |  |  |  |
|---------------|---|--|--|--|--|--|--|--|
| MOBILE        | MOBILE SHORT SHORT TERM INTERMEDIATE LONG TERM DURATION STATIONARY TERM STATIONARY STATIONARY |  |  |  |  |  |  |  |
| 1 1           |   |  |  |  |  |  |  |  |

#### GENERAL NOTES

CW20-1D

48" X 48"

- 1. Flags attached to signs where shown are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except: if project signing is present, END ROAD WORK (G20-2) sign is optional with approval by the Engineer.
- 3. The ROAD WORK AHEAD (CW20-1D) sign may be repeated if the visibility of the work zone is less than 1500 feet.
- 4. If the seal coat operation crosses intersections, traffic in these areas must be controlled. Care must be taken to prevent vehicles from crossing the asphalt before the aggregate is placed. This may require positioning additional traffic control personnel (flaggers) at the intersection.
- 5. Temporary rumble strips are not required on seal coat operations.

#### TCP (SC-2a) and (SC-2b)

- 6. Channelizing devices which separate two-way traffic shall be spaced on tapers at:
  - a.) 20 feet;
  - b.) 15 feet when posted speeds are 35 mph or slower; or
  - c.) at 1/2(S) for tangent sections.
- This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

SHEET 2 OF 8

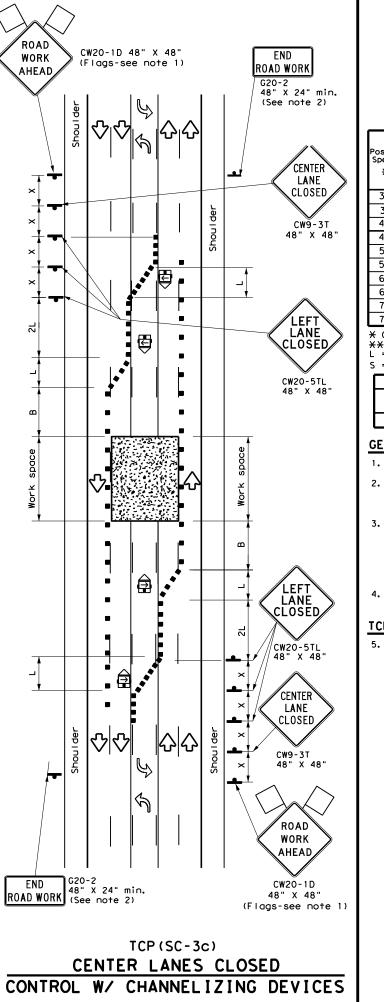
Traffic Safety Division Standard



TRAFFIC CONTROL PLAN SEALCOAT OPERATIONS MULTILANE ROADS (UNDIVIDED)

TCP (SC-2) -22

| FILE:   | tcpsc-2-22.dgn | DN:  |      | CK:    | DW:  | CK:       |  |
|---------|----------------|------|------|--------|------|-----------|--|
| © TxD0T | October 2022   | CONT | SECT | JOB    |      | HIGHWAY   |  |
|         | REVISIONS      | 0095 | 08   | 021,E1 | c US | 80,Etc    |  |
| 4-21    |                | DIST |      | COUNTY |      | SHEET NO. |  |
| 10-22   |                | TVI  |      | SMITH  | F+c  | 61        |  |



LEGEND Type 3 Barricade Channelizing Devices Truck Mounted Attenuator (TMA) Heavy Work Vehicle Portable Changeable Message Sign (PCMS) railer Mounted Flashing Arrow Board Traffic Flow ĪΟ Flag Flagger

| Posted<br>Speed<br><del>X</del> | Formula             | Minimum<br>Desirable<br>Taper Lengths<br>** |               |               | Spacir<br>Channe |                 | Minimum<br>Sign<br>Spacing<br>Distance | Suggested<br>Longitudinal<br>Buffer Space |
|---------------------------------|---------------------|---|---------------|---------------|------------------|-----------------|--|---|
|                                 |                     | 10'<br>Offset                               | 11'<br>Offset | 12'<br>Offset | On a<br>Taper    | On a<br>Tangent | "X"                                    | "B"                                       |
| 30                              | L = WS <sup>2</sup> | 150′  | 165′          | 180'          | 30′              | 60′             | 120′                                   | 90′                                       |
| 35                              |                     | 2051  | 225′          | 2451          | 35′              | 70′             | 160′                                   | 120′                                      |
| 40                              |                     | 265′  | 295′          | 3201          | 40′              | 80′             | 240'                                   | 155′                                      |
| 45                              | L=WS                | 4501  | 495′          | 540′          | 45′              | 90'             | 3201                                   | 195′                                      |
| 50                              |                     | 500′  | 5501          | 600'          | 50′              | 100′            | 400′                                   | 240′                                      |
| 55                              |                     | 5501  | 6051          | 660′          | 55′              | 110′            | 500′                                   | 295′                                      |
| 60                              |                     | 600'  | 660′          | 720′          | 60′              | 120′            | 600'                                   | 350′                                      |
| 65                              |                     | 650′  | 715′          | 780′          | 65′              | 130′            | 700′                                   | 410′                                      |
| 70                              |                     | 7001  | 770′          | 840′          | 70′              | 140′            | 800′                                   | 475′                                      |
| 75                              |                     | 750′  | 825′          | 900′          | 75′              | 150′            | 900'                                   | 540′                                      |

X Conventional Roads Only

\*\* Taper lengths have been rounded off.
L = Length of Taper (FT) W = Width of Offset (FT)

S = Posted Speed (MPH)

| TYPICAL USAGE            |   |                          |                                 |                         |  |  |  |  |
|--------------------------|---|--------------------------|---------------------------------|-------------------------|--|--|--|--|
| MOBILE SHORT<br>DURATION |   | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |  |  |
|                          | ✓ | ✓                        |                                 |                         |  |  |  |  |

#### GENERAL NOTES

- 1. Flags attached to signs where shown are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except: if project signing is present, END ROAD WORK (G20-2) sign is optional with approval by the Engineer.
- 3. If the seal coat operation crosses intersections, traffic in these areas must be controlled. Care must be taken to prevent vehicles from crossing the asphalt before the aggregate is placed. This may require positioning additional traffic control personal (flaggers) at the intersection.
- 4. Temporary rumble strips are not required on seal coat operations.

#### TCP (SC-3a) and (SC-3b)

5. Channelizing devices which separate two-way traffic shall be spaced on tapers at: a.) 20 feet;

b.) 15 feet when posted speeds are 35 mph or slower; or c.) at 1/2(S) for tangent sections.

This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

SHEET 3 OF 8



Traffic Safety Division Standard

TRAFFIC CONTROL PLAN SEAL COAT OPERATIONS MULTILANE ROADS (W/ CENTER LEFT TURN LANE) TCP (SC-3) -22

tcpsc-3-22.dgn C) TxDOT October 2022 HIGHWAY 0095 08 021,E+c US 80,E+c 10-22 SMITH, Etc

CW20-1D 48" X 48" (Flags-see note 1)

CW20-7aD 48" X 48"

CW20-7

FLAGGER AHEAD

PREPARED

TO STOP

Devices at 20' spacing on the taper

 $\bigcirc$ | 公 END

ROAD WORK G20-2 48" X 24" min.

(See note 2)

Shoulder

CW3-4 48" X 48"

CW20-7aD 48" X 48"

CW20-1D 48" X 48" (Flags-

See note 1)

(See note 2)

ONE LANE TWO-WAY (T-INTERSECTION) CONTROL WITH PILOT VEHICLE

 $\langle \exists \rangle$ 

14.5.44.5.44.5.44

LEGEND Channelizing Devices Type 3 Barricade Truck Mounted Attenuator (TMA) Heavy Work Vehicle Portable Changeable Message Sign (PCMS) Trailer Mounted Flashing Arrow Board Traffic Flow • Sign Flag Flagger

| Posted<br>Speed<br><del>X</del> | Formula               | Minimum<br>Desirable<br>Taper Lengths<br>** |               |               | Spaci<br>Channe |                 | Minimum<br>Sign<br>Spacing<br>Distance | Suggested<br>Longitudinal<br>Buffer Space | Stopping<br>Sight<br>Distance |
|---------------------------------|-----------------------|---|---------------|---------------|-----------------|-----------------|--|---|-------------------------------|
|                                 |                       | 10'<br>Offset                               | 11'<br>Offset | 12'<br>Offset | On a<br>Taper   | On a<br>Tangent | "X"                                    | "B"                                       |                               |
| 30                              | 2                     | 150′  | 165′          | 1801          | 30′             | 60′             | 120′                                   | 90'                                       | 200′                          |
| 35                              | $L = \frac{WS^2}{60}$ | 2051  | 2251          | 245'          | 35′             | 70′             | 160′                                   | 120′                                      | 250′                          |
| 40                              |                       | 265′  | 2951          | 3201          | 40′             | 80′             | 240′                                   | 155′                                      | 305′                          |
| 45                              | L=WS                  | 450′  | 4951          | 540′          | 45′             | 90′             | 320′                                   | 195′                                      | 360′                          |
| 50                              |                       | 5001  | 550′          | 600'          | 50′             | 100′            | 400′                                   | 240′                                      | 425′                          |
| 55                              |                       | 550′  | 605′          | 660′          | 55′             | 110′            | 500′                                   | 295′                                      | 495′                          |
| 60                              |                       | 600′  | 660′          | 720′          | 60′             | 120′            | 600′                                   | 350′                                      | 570′                          |
| 65                              |                       | 650′  | 715′          | 780′          | 65′             | 130′            | 700′                                   | 410′                                      | 645′                          |
| 70                              |                       | 700′  | 770′          | 840′          | 70′             | 140′            | 800′                                   | 475′                                      | 730′                          |
| 75                              |                       | 750′  | 825′          | 900′          | 75′             | 150′            | 900′                                   | 540′                                      | 820′                          |

\* Conventional Roads Only

\*\* Taper lengths have been rounded off.

L = Length of Taper (FT) W = Width of Offset (FT) S = Posted Speed (MPH)

| TYPICAL USAGE            |   |                          |                                 |                         |  |  |  |  |
|--------------------------|---|--------------------------|---------------------------------|-------------------------|--|--|--|--|
| MOBILE SHORT<br>DURATION |   | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |  |  |
|                          | 1 | 1                        |                                 |                         |  |  |  |  |

#### GENERAL NOTES

PREPARED

50' min.

100' max.

 $\bigcirc$ 

CW3-4 48" X 48"

CW20-4D 48" X 48"

♦

CW20-1D

END

ROAD WORK

G20-2 48" X 24" min. (See note 2)

48" X 48" (Flags-

see note 1

- 1. Flags attached to signs where shown are REQUIRED.
- 2. All traffic control devices illustrated are REQUIRED, except: if project signing is present, END ROAD WORK (G20-2) sign is optional with approval by the Engineer.
- Flaggers should use two-way radios or other methods of communication at all times for traffic control coordination.
- 4. Flaggers should use 24" STOP (CW20-8) / SLOW (CW20-8aT) paddles to control traffic. Flags should be limited to emergency situations.
- 5. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
- 6. Temporary rumble strips are not required on seal coat operations.
- 7. The pilot car is used to guide vehicles through traffic control zone. The pilot car shall have an identification name displayed and PILOT CAR, FOLLOW ME (G20-4) sign or message board mounted in a conspicuous position on rear.

SHEET 4 OF 8

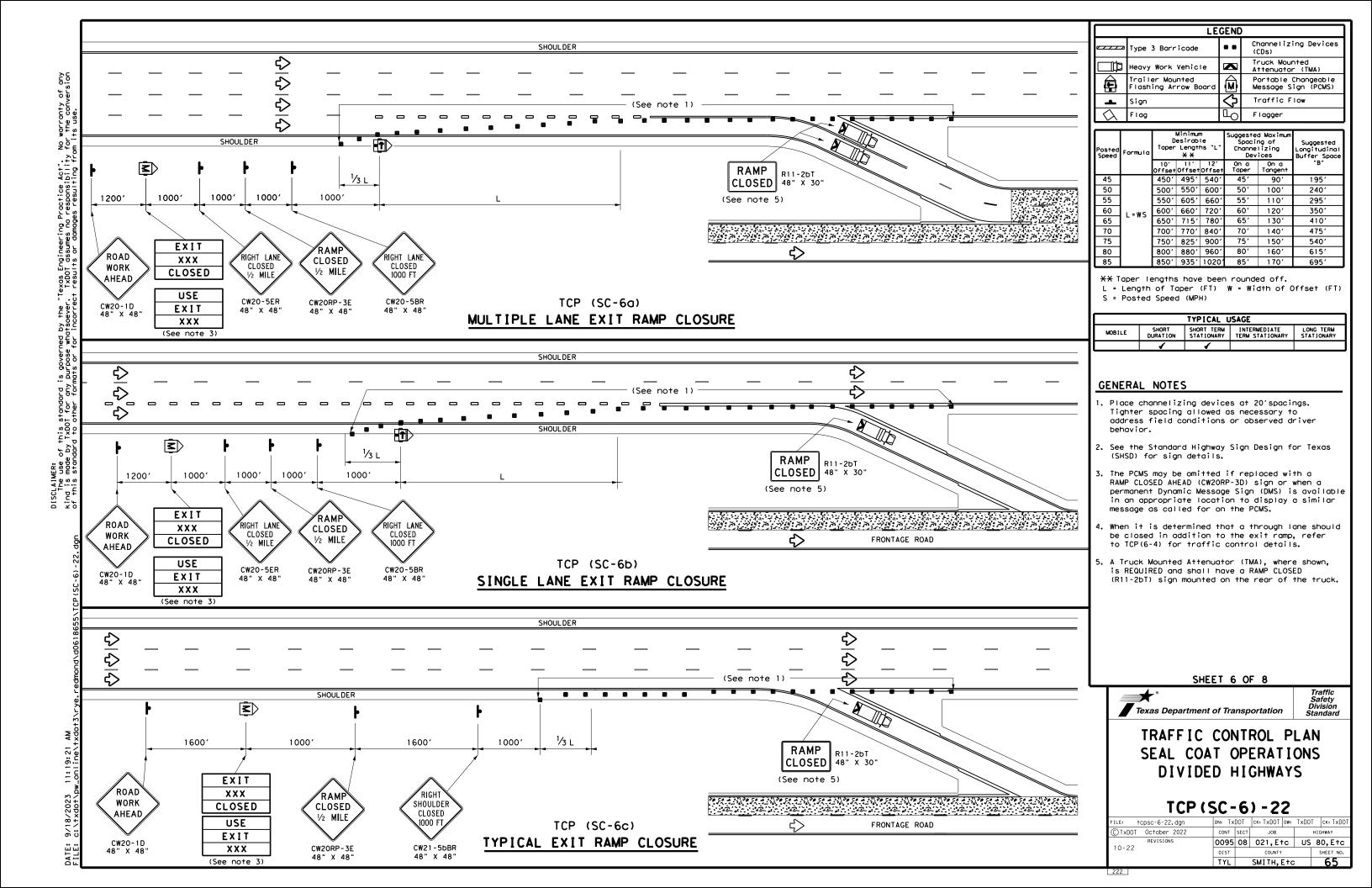


Traffic Safety Division Standard

TRAFFIC CONTROL PLAN SEAL COAT OPERATIONS **NEAR INTERSECTION** 

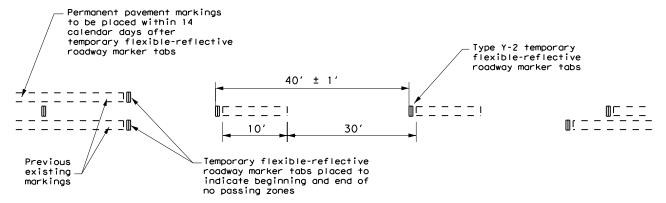
TCP (SC-4) -22

| FILE: tcpsc-4-22.dgn | DN:  |            | CK: DW: |           | CK:     |
|----------------------|------|------------|---------|-----------|---------|
| CTxDOT October 2022  | CONT | SECT       | JOB     |           | HIGHWAY |
| REVISIONS            | 0095 | 08         | 021,Et  | c US      | 80,Etc  |
| 4-21<br>10-22        | DIST | COUNTY     |         | SHEET NO. |         |
| 10-22                | TYL  | SMITH, Etc |         |           | 63      |



No warranty of any for the conversion

#### TABS ON CENTERLINES OF TWO-LANE TWO-WAY ROADS



#### TEMPORARY FLEXIBLE-REFLECTIVE ROADWAY MARKER TABS

- Temporary markings for surfacing projects shall be Temporary Flexible-Reflective Roadway Marker Tabs with protective cover unless otherwise approved by the Engineer. Tabs are to be installed to provide true alignment for striping crews or as directed by the Engineer. Tabs will be placed at the spacing indicated. Tabs should be applied to the pavement no more than two days before the surfacing is applied. After the surfacing is rolled and swept, the protective cover over the reflective strip
- Temporary Flexible-Reflective Roadway Marker Tabs detailed on this sheet will be designated Type Y-2 (two amber reflective surfaces with a yellow body); Type Y (one amber reflective surface with yellow body); and Type W (one white or silver reflective surface with white body). Additional details may be found on BC(11).
- Temporary Flexible-Reflective Roadway Marker Tabs will require normal maintenance replacement when used on roadways with an Average Daily Traffic (ADT) per lane of up to 7500 vehicles with no more than 10% truck mix. When roadway volumes exceed these values, additional maintenance replacement of these devices should be planned for.
- When dry, tabs shall be visible for a minimum distance of 200 feet during normal daylight hours and when illuminated by automobile low- beam head light at night, unless sight distance is restricted by roadway geometrics.
- 5. No two consecutive tabs nor four tabs per 1000 feet of line shall be missing or fail to meet the visual performance requirements of Note 4.
- 6. Tabs shall meet requirements of Departmental Material Specification DMS-8242.
- 7. Tabs shall NOT be used to simulate edge lines.

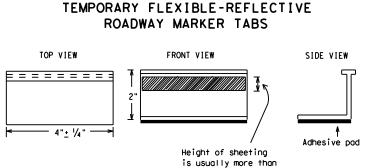
#### NOTES:

- 1. The Contractor will be responsible for maintaining short term pavement markings until permanent pavement morkings are in place. When the Contractor is responsible for placement of permanent pavement morkings, no segment of roadway shall remain without permanent pavement markings for a period greater than 14 calendar days unless weather conditions prohibit placement. Permanent pavement markings shall be placed
- 2. For exit gores where a lane is being dropped, place wide gore markings or retroreflective channelizing devices to guide motorist through the exit. If channelizing devices are to be used it should be noted elsewhere in the plans. One piece cones are NOT acceptable.
- 3. Dimensions indicated on this sheet are typical and approximate. Variations in size and height may occur between markers or devices made by manufacturers, by as much as  $\frac{1}{4}$  inch, unless otherwise noted.

#### DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS) & MATERIAL PRODUCER LISTS (MPL)

1/4" and less than 1".

DMSs referenced above may be found along with embedded links to their respective MPLs at the following website: http://www.txdot.gov SHEET 7 OF 8

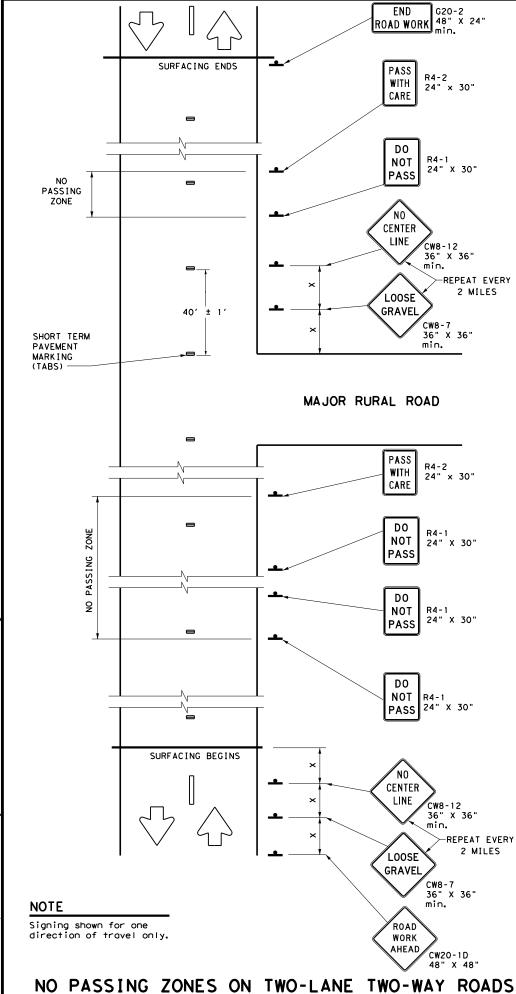




PAVEMENT MARKINGS FOR SEAL COAT OPERATIONS

TCP (SC-7) -22

| 10-22         |                | TYL    |      | SMITH, E  | E†c | :    |      | 66        |
|---------------|----------------|--------|------|-----------|-----|------|------|-----------|
| 4-21<br>10-22 |                | DIST   |      | COUNTY    |     |      | SI   | HEET NO.  |
| 4 01          | REVISIONS      | 0095   | 08   | 021,Et    | Ö   | US   | 80   | D,Etc     |
| C TxDOT       | October 2022   | CONT   | SECT | JOB       |     |      | HIGH | YAW       |
| FILE:         | tcpsc-7-22.dgn | DN: T: | (DOT | ck: TxDOT | DW: | T×D0 | T    | ck: TxDOT |



#### DO NOT PASS (R4-1) SIGN and NO-PASSING ZONES

- Prior to the beginning of construction, all currently striped no-passing zones shall be signed with the DO NOT PASS (R4-1) signs and PASS WITH CARE (R4-2) signs placed at the beginning and end of each zone for each direction of travel, except as otherwise provided herein. Signs marking these individual no-passing zones need not be covered prior to construction if the signs supplement the existing pavement
- At the discretion of the Engineer, in areas of numerous no-passing zones, several zones may be combined as a single zone. If passing is to be prohibitd over one or more lengthy sections, a DO NOT PASS sign and a NEXT XX MILES (R20-1TP) plaque may be used at the beginning of such zones. The DO NOT PASS sign and the NEXT XX MILES plaque should be repeated every mile to the end of the no-passing zone. In areas where there is a considerable distance between no-passing zones, the end of the no-passing zone may be signed with a PASS WITH CARE sign and a NEXT XX MILES plaque.
- Depending on traffic volumes and length of sections, it may be desirable to prohibit passing throughout the project to prevent damage to windshields and lights. The DO NOT PASS sign and NEXT XX MILES plaque should be used and repeated as often as necessary for this purpose. Where several existing zones are to be combined into one individual no-passing zone, the sign at the beginning of the zone should be covered until the surfacing operation has passed this location so as not to have the DO NOT PASS sign conflict with the existing pavement markings. Also, unless one day of operation completes the entire length of such combined zones, appropriate DO NOT PASS and PASS WITH CARE signs should be placed at the beginning and end of the no-passing zones where the surfacing operation has stopped for the day.
- D. DO NOT PASS and PASS WITH CARE signs are to remain in place until permanent pavement markings are

#### NO CENTER LINE (CW8-12) SIGN

- Center line markings are yellow pavement markings that delineate the separation between lanes that have opposite directions of travel on a roadway. Divided highways do not typically have center line markinas.
- B. At the time construction activity obliterates the existing center line markings (low volume roads may not have an existing center line), a NO CENTER LINE (CW8-12) sign should be erected at the beginning of the work area, at approximately two mile intervals within the work area, beyond major intersections, and other locations deemed necessary by the Engineer.
- C. The NO CENTER LINE signs are to remain in place until permanent pavement markings are installed.

#### LOOSE GRAVEL (CW8-7) SIGN

- When construction begins, a LOOSE GRAVEL (CW8-7) sign should be erected at each end of the work area and repeated at intervals of approximately two miles in rural areas and closer in urban areas.
- The LOOSE GRAVEL signs are to remain in place until the condition no longer exists.

#### COORDINATION OF SIGN LOCATIONS

- The location of warning signs at the beginning and end of a work area are to be coordinated with other signing typically shown on the Barricade and Construction Standards for project limits to ensure adequate sign spacing.
- Where possible, the ROAD WORK AHEAD (CW20-1D), LOOSE GRAVEL (CW8-7), and NO CENTER LINE (CW8-12) signs should be placed:
  - a.) In the sequence shown following the OBEY WARNING SIGNS STATE LAW (R20-3T) sign and the TRAFFIC FINES DOUBLE (R20-5T) sign; and
  - b.) One "X" sign spacing prior to the CONTRACTOR (G20-6T) sign typically located at or near

LOOSE GRAVEL and NO CENTER LINE sign placements will then be repeated as described above.

| Posted<br>Speed<br>* | Minimum<br>Sign<br>Spacing<br>Distance<br>"X" |
|----------------------|---|
| 30                   | 120′  |
| 35                   | 160′  |
| 40                   | 240′  |
| 45                   | 320'  |
| 50                   | 400′  |
| 55                   | 500′  |
| 60                   | 600′  |
| 65                   | 700′  |
| 70                   | 800,  |
| 75                   | 900,  |

\* Conventional Roads Only

|        |   | TYPICAL  | USAGE                           |                         |
|--------|---|----------|---------------------------------|-------------------------|
| MOBILE |   |          | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |
|        | 1 | <b>√</b> |                                 |                         |

#### GENERAL NOTES

- Surfacing operations that cover or obliterate existing pavement markings must first have the passing zones clearly marked with tabs as well as having any of the traffic control devices detailed on this sheet furnished and erected as directed by the Engineer.
- The devices shown on this sheet are to be used to supplement those required by the BC Standards or others required elsewhere in the plans.
- Signs shall be erected as detailed on the BC Standards or the Compliant Work Zone Traffic Control Devices List (CWZTCD) on supports approved for Short Duration / Short Term Stationary Work Zone Sign Supports.
- When surfacing operations take place on divided highways, freeways or expressways, the size of diamond shaped construction warning signs shall
- Signs on divided highways, freeways and expressways should be placed on both right and left sides of the roadway based on roadway conditions as directed by the Engineer.

SHEET 8 OF 8

Traffic Safety Division Standard



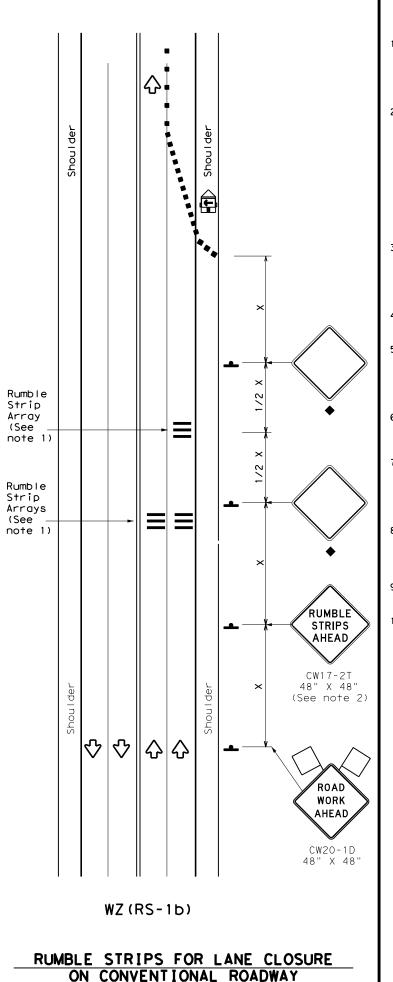
Texas Department of Transportation

TRAFFIC CONTROL DETAILS **FOR** SEAL COAT OPERATIONS

TCP(SC-8)-22

| FILE:         | tcpsc-8-22.dgn | DN: T | ×D0T | ck: TxDOT | DW:  | TxDOT | ck: TxDOT |
|---------------|----------------|-------|------|-----------|------|-------|-----------|
| © TxD0T       | October 2022   | CONT  | SECT | JOB       |      | Н     | IGHWAY    |
|               | REVISIONS      | 0095  | 08   | 021,E+    | .c   | US    | 80,Etc    |
| 4-21<br>10-22 |                | DIST  |      | COUNTY    |      |       | SHEET NO. |
| 10-22         |                | TYI   |      | SMITH, F  | - tc |       | 67        |

TWO-WAY APPLICATION



#### GENERAL NOTES

- Each Rumble Strip Array should consist of three rumble strips spaced center to center at the spacing shown in Table 2, placed transverse across the lane at locations shown.
- 2. The CW17-2T "RUMBLE STRIPS AHEAD" sign should be located after the CW20-1D "ROAD WORK AHEAD sign and spaced as shown. If traffic is observed to be queuing, or is expected to queue beyond the Rumble Strips, the CW17-2T sign and the first Rumble Strip Array may be located upstream of the CW20-1D sign as necessary to provide needed warning.
- Temporary Rumble Strips will be considered subsidiary to Item 502, and shall be a product listed on the Compliant Work Zone Traffic Control Devices.
- 4. Remove Temporary Rumble Strips before removing the advanced warning signs.
- Temporary Rumble Strips should not be used on horizontal curves, loose gravel, soft or bleeding asphalt, heavily rutted pavements or unpaved surfaces.
- Temporary Rumble Strips shall be installed and maintained as per manufacturer's recommendations.
- This standard sheet shall be used in conjunction with other appropriate TCP standard, TMUTCD typical application or project specific detail for the project.
- 3. The one-lane two-way application may utilize a flagger, an Automated Flagger Assistance Device (AFAD) or a Portable Traffic Signal (PTS).
- Replace defective Temporary Rumble Strips as directed by the Engineer.
- 10. Temporary Rumble Strips may be used on freeways or expressways based on engineering judgment and written direction from the Engineer.

|            | LEGEND                                  |    |  |  |  |  |  |
|------------|---|----|--|--|--|--|--|
|            | Type 3 Barricade                        |    | Channelizing Devices                       |  |  |  |  |
|            | Heavy Work Vehicle                      |    | Truck Mounted<br>Attenuator (TMA)          |  |  |  |  |
| <b>E</b>   | Trailer Mounted<br>Flashing Arrow Panel | (M | Portable Changeable<br>Message Sign (PCMS) |  |  |  |  |
| -          | Sign                                    | Ŷ  | Traffic Flow                               |  |  |  |  |
| $\Diamond$ | Flag                                    | Ф  | Flagger                                    |  |  |  |  |

| Speed | Formula            | D             | Minimur<br>esirab<br>er Len<br><del>X X</del> | le            | Suggested Maximum<br>Spacing of<br>Channelizing<br>Devices |                 | Minimum<br>Sign<br>Spacing<br>"X" | Suggested<br>Longitudinal<br>Buffer Space |  |
|-------|--------------------|---------------|---|---------------|--|-----------------|-----------------------------------|---|--|
| *     |                    | 10'<br>Offset | 11'<br>Offset                                 | 12'<br>Offset | On a<br>Taper  | On a<br>Tangent | Distance                          | "B"                                       |  |
| 30    | 2                  | 150′          | 1651  | 1801          | 30′  | 60′             | 1201                              | 90′                                       |  |
| 35    | L= WS <sup>2</sup> | 2051          | 2251  | 2451          | 35′  | 70′             | 160′                              | 120′                                      |  |
| 40    | 80                 | 265′          | 2951  | 3201          | 40′  | 80′             | 240'                              | 155′                                      |  |
| 45    |                    | 450′          | 495′  | 540′          | 45′  | 90′             | 320'                              | 195′                                      |  |
| 50    |                    | 5001          | 5501  | 600,          | 50′  | 100′            | 4001                              | 240′                                      |  |
| 55    | L=WS               | 550′          | 6051  | 6601          | 55′  | 110′            | 500′                              | 295′                                      |  |
| 60    | L #13              | 600′          | 660′  | 720′          | 60′  | 120'            | 600'                              | 350′                                      |  |
| 65    |                    | 650′          | 715′  | 780′          | 65′  | 130′            | 700′                              | 410'                                      |  |
| 70    |                    | 700′          | 7701  | 840′          | 70′  | 140′            | 800'                              | 475′                                      |  |
| 75    |                    | 750′          | 825′  | 900′          | 75'  | 150′            | 900′                              | 540′                                      |  |

- \* Conventional Roads Only
- XX Taper lengths have been rounded off.
  L=Length of Taper(FT) W=Width of Offset(FT)
  S=Posted Speed(MPH)

| TYPICAL USAGE |                   |                          |                                 |                         |  |  |
|---------------|-------------------|--------------------------|---------------------------------|-------------------------|--|--|
| MOBILE        | SHORT<br>DURATION | SHORT TERM<br>STATIONARY | INTERMEDIATE<br>TERM STATIONARY | LONG TERM<br>STATIONARY |  |  |
|               | ✓                 | ✓                        |                                 |                         |  |  |

- Signs are for illustrative purposes only. Signs required may vary depending on the TCP, TMUTCD Typical Application, or project specific details for the project.
- For posted speeds in excess of 65 MPH, it is recommended that spacing is increased as speed limits increase. Increasing space between rumble strips will improve effectiveness.

| TABLE 2                          |   |  |  |  |  |
|----------------------------------|---|--|--|--|--|
| Speed                            | Approximate distance<br>between strips in<br>an array |  |  |  |  |
| <u>&lt;</u> 40 MPH               | 10′   |  |  |  |  |
| > 40 MPH &<br><u>&lt;</u> 55 MPH | 15′   |  |  |  |  |
| = 60 MPH                         | 20′   |  |  |  |  |
| <u>&gt;</u> 65 MPH               | <b>*</b> 35′+   |  |  |  |  |

| *                                  |
|------------------------------------|
| Texas Department of Transportation |

#### TEMPORARY RUMBLE STRIPS

Traffic Safety Division Standard

| ₩Z | (RS)  | -22 |
|----|-------|-----|
|    | T D.0 |     |

| ILE: wzrs22.dgn       | DN: Tx | DOT  | ck: TxDOT | DW: | TxDOT | ck: TxDOT |
|-----------------------|--------|------|-----------|-----|-------|-----------|
| C)TxDOT November 2012 | CONT   | SECT | JOB       |     | н     | IGHWAY    |
| REVISIONS             | 0095   | 08   | 021,E1    | c   | US    | 80,Etc    |
| 2-14 1-22<br>4-16     | DIST   |      | COUNTY    |     |       | SHEET NO. |
| 4-18                  | TYL    |      | SMITH, I  | E†c | :     | 68        |

11

ROADWAY AREAS TO BE SEALED

SEE ESTIMATE & QUANTITY SUMMARY SHEETS FOR EXACT LOCATION AND DETAILS.

CONTRACTOR SHALL ONLY SEAL BRIDGES WHICH HAVE BEEN PREVIOUSLY OVERLAYED OR SEALED. PROPOSED STRIPING SHALL BE PLACED ON ALL BRIDGE DECKS REGARDLESS OF SURFACE.

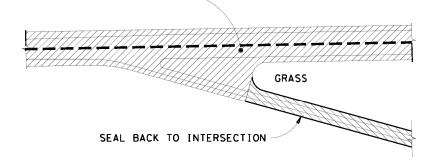
TYPICAL CONCRETE BRIDGE EXCEPTION SURFACING DETAIL

ROADWAY AREAS TO BE SEALED

TYPICAL ENTRANCE RAMP SURFACING DETAIL

SEAL BACK TO INTERSECTION

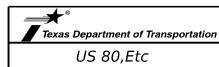
ROADWAY AREAS TO BE SEALED



TYPICAL EXIT RAMP SURFACING DETAIL

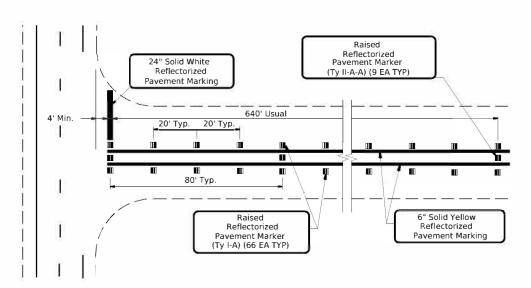


09/21/2023

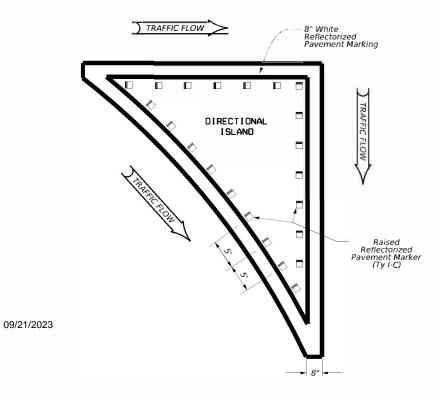


MISCELLANEOUS SURFACING DETAILS

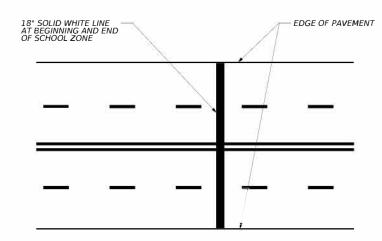
|               | 2024 | SHEET   | 1 OF | : 1       |  |  |
|---------------|------|---------|------|-----------|--|--|
| ONT           | SECT | JOB     |      | HIGHWAY   |  |  |
| 095           | 08   | 021,Etc | U:   | US 80,Etc |  |  |
| DIST          |      | COUNTY  |      | SHEET NO. |  |  |
| TYL SMITH,Etc |      |         |      | 69        |  |  |



PAVEMENT MARKING DETAIL APPROACHING STOP CONDITION (ONLY APPLIES TO PRIMARY ROADWAY BEING SEALED)



TYPICAL DIRECTIONAL ISLAND DETAIL **AT INTERSECTIONS** 



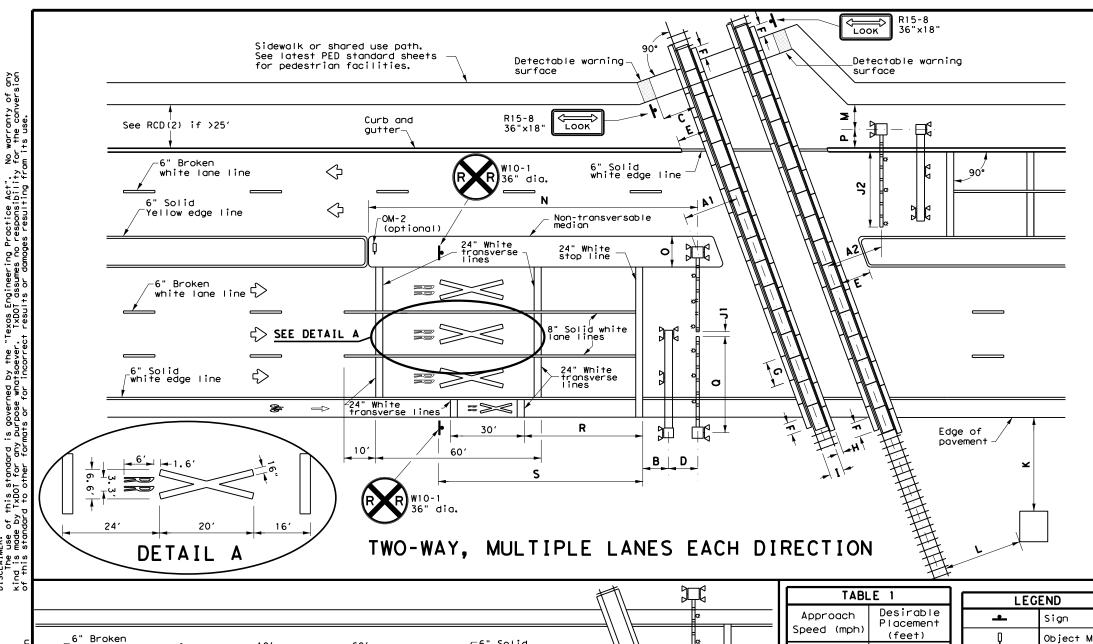
**SCHOOL ZONE PAVEMENT MARKINGS** 





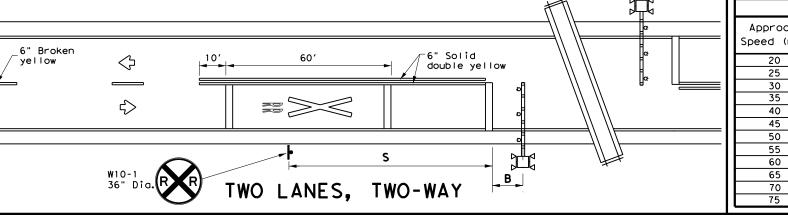
PAVEMENT MARKING **DETAILS** 

|      | SHEET 1 OF 2 |           |   |           |  |  |  |
|------|--------------|-----------|---|-----------|--|--|--|
| CONT | SECT         | JOB       |   | HIGHWAY   |  |  |  |
| 0095 | 08           | 021,Etc   |   | US 80,Etc |  |  |  |
| DIST | ST COUNTY    |           |   | SHEET NO. |  |  |  |
| TYL  |              | SMITH,Etc | = | 70        |  |  |  |



#### NOTES

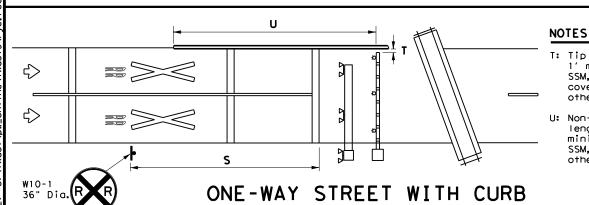
- Al: Center of RR most to center of rail: 12' minimum, 15' typical.
- A2: Tip of gate to center of rail: 12' minimum, 15' typical.
- B: Center of mast (cantilever, gate, or mast flasher) of nearest active traffic control device to stop line: 8' (NOTE: Stop line may be moved as needed, but should be at least 8' back from gates, if present).
- C: Near edge of detectable warning surface to nearest rail: 12' minimum.
- D: Center of gate mast to center of cantilever mast: 6' typical. NOTE: Cantilever may be located in front or behind gates.
- E: Edge of median or curb to nearest rail: 10' typical. NOTE: Design median edge to be parallel with rail.
- F: Edge of planking panel from edge of pavement or sidewalk: 3' minimum. NOTE: Field panels need not be in line with gauge panels.
- G: Length of panels along rail: 8' typical.
- H: Width of field panel: 2' typical (check with railroad company).
- I: Distance between rails: 4'- 8'1/2".
- J1: Tip of gate to tip of gate: 2' maximum.
- J2: 90% of traveled roadway to be covered by gate.
- K: Nearest edge of RR cabinet from edge of pavement: 30' typical. NOTE: Cabinet not required to be parallel to edge of pavement.
- L: Nearest edge of RR cabinet from nearest rail: 25' typical.
- M: Center of RR mast to edge of sidewalk: 6' minimum.
- N: Center of gate mast to leading edge of non-traversable median: 100' minimum to qualify as a Quiet Zone SSM. NOTE: 60'will suffice if there is a street intersection within the 100' and all street intersections within 60' are closed.
- 0: Width of median for RR gate assembly: 8'-6" minimum, 10' typical when using median gates. NOTE: Center of gate mast minimum 4'-3" from face of curb.
- P: Center of RR mast to face of curb: 5'-3" minimum.
  Center of RR mast to edge of pavement (with shoulder): 7' minimum.
  Center of RR mast to edge of pavement (no shoulder): 9'-3" minimum. NOTE: Final location determined by the railroad company.
- Q: Gate length: 28' or less typical, but railroad company may allow up to 32' under special circumstances.
- R: Stop line to first RR Crossing transverse line (bike lane): 50' typical.
- S: Stop line to GRADE CROSSING ADVANCE WARNING (W10-1) sign and adjacent RR Crossing pavement markings. See Table 1. See RCD(2) for other signs.



| TABLE 1    |                        |   | LEGEND   |               |  |  |
|------------|------------------------|---|----------|---------------|--|--|
| Approach   | Desirable<br>Placement |   | -        | Sign          |  |  |
| peed (mph) | (feet)                 |   | Ç        | Object Marker |  |  |
| 20         | 100                    |   |          |               |  |  |
| 25         | 100                    |   | <>       | Traffic Flow  |  |  |
| 30         | 100                    |   |          |               |  |  |
| 35         | 100                    |   |          | Cantilever    |  |  |
| 40         | 125                    |   | <u> </u> | Gate Assembly |  |  |
| 45         | 175                    |   |          | GOTE ASSEMBLY |  |  |
| 50         | 250                    |   | Ч        | Mast Flasher  |  |  |
| 55         | 325                    |   | И        | Pair          |  |  |
| 60         | 400                    |   |          |               |  |  |
| 65         | 475                    | l |          |               |  |  |
| 70         | 550                    | l |          |               |  |  |
|            |                        |   |          |               |  |  |

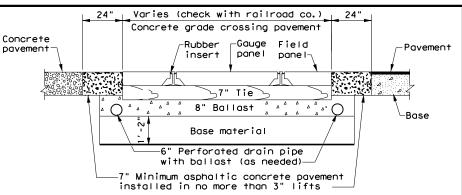
GENERAL NOTES

- Medians and curbs must be non-traversable to qualify as a Quiet Zone Supplementary Safety Measure (SSM). Non-traversable curbs in Quiet Zones are 6" tall minimum and used on roadways where speed does not exceed 40 mph.
- 2. Raised pavement markers may be used to supplement striping. See PM(2) and PM(3) standard sheets.
- Medians preferred whenever possible to prevent vehicles from driving around gates.
- Longitudinal edge striping may be continued thru crossing as needed. Illumination may also be considered for nighttime visibility.
- 5. See SMD standard sheets for sign mounting details.
- See the Standard Highway Sign Design for Texas (SHSD) manual for sign and pavement marking details.



#### T: Tip of gate to edge of curb: maximum for Quiet Zone SSM, 90% of traveled way covered by gates for all other locations.

U: Non-traversable curb length from gate: 100' minimum for a Quiet Zone SSM, 10' minimum for all other locations.



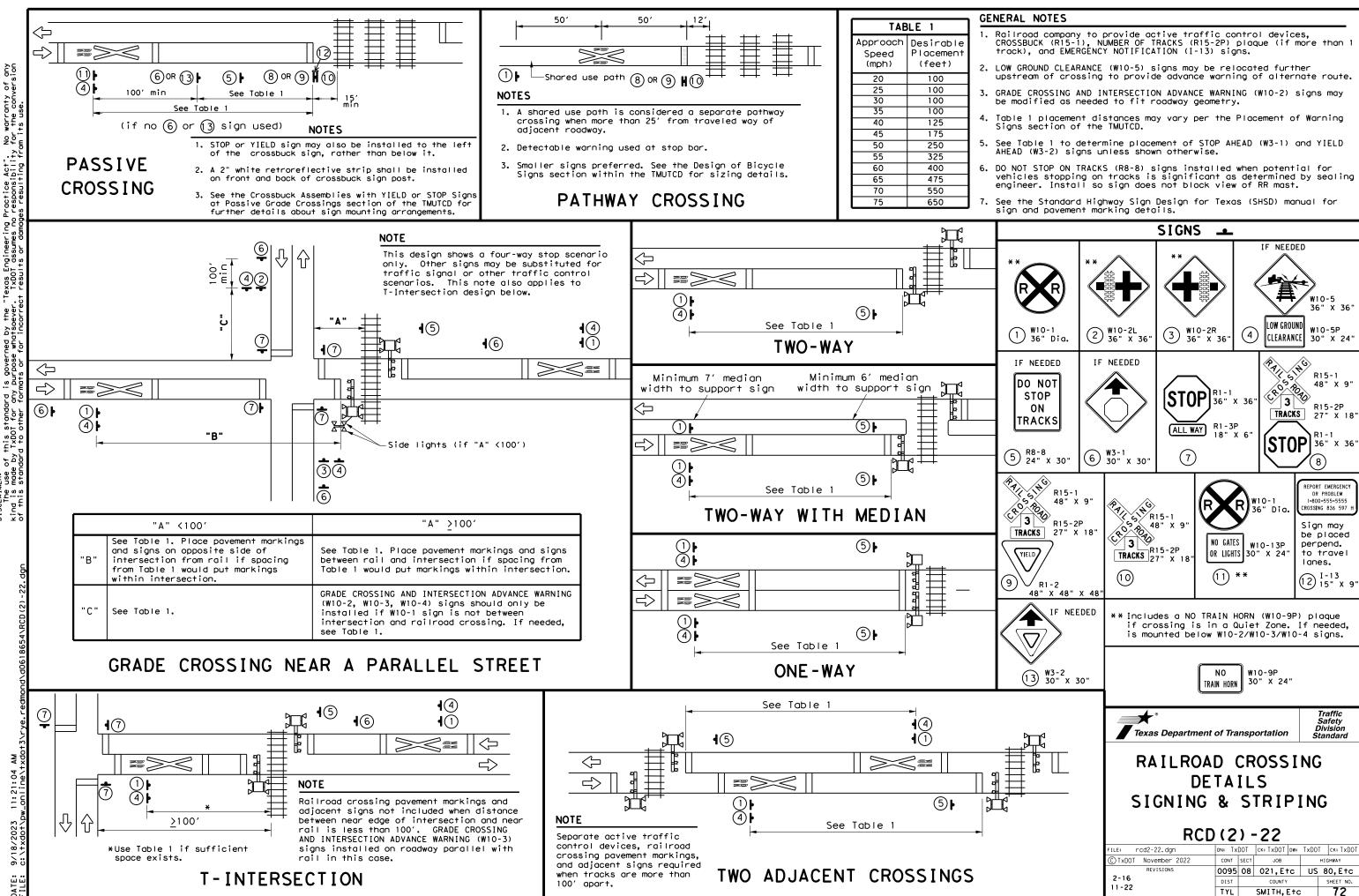
CROSSING SURFACE CROSS SECTION

Texas Department of Transportation

RAILROAD CROSSING DETAILS SIGNING, STRIPING, AND DEVICE PLACEMENT

Traffic Safety Division Standard

RCD(1) - 22rcd1-22.dgn DN: TXDOT CK: TXDOT DW: TXDOT CK: TXDO CONT SECT JOB (C)TxDOT November 2022 0095 08 021,E+c US 80,E+c 11-22 SMITH, Etc



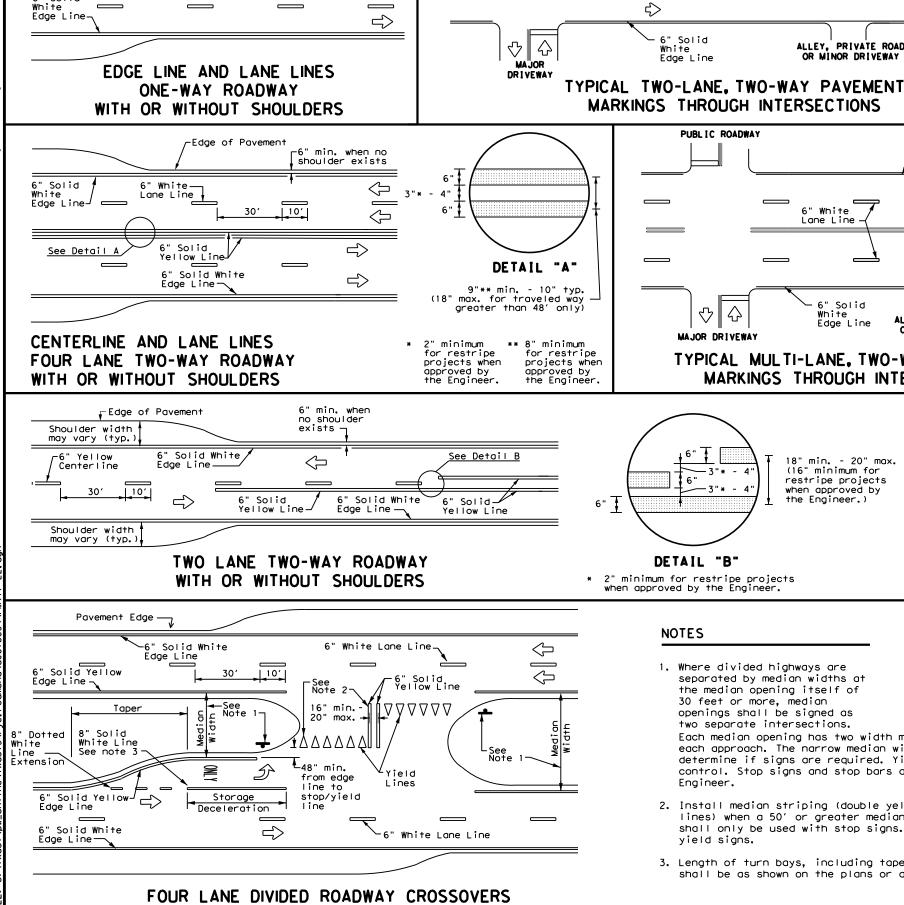
Shou I der

6" Solid

Edge Line-

6" Solid

Yellow



-6" min. when no

shoulder exists

[\_10′]

 $\Rightarrow$ 

 $\Rightarrow$ 

6" Solid White

Edge Line

Solid

PUBLIC ROADWAY

**₽**  $\Diamond$ 

MAJOR DRIVEWAY

6"

DETAIL "B"

NOTES

Engineer.

1. Where divided highways are

separated by median widths at

the median opening itself of 30 feet or more, median

openings shall be signed as

two separate intersections.

Edge Line

 $\langle \rangle$ 

➪

ROADWAY

-Edge of Pavement

white F Lane Line F

──6" White

### **GENERAL NOTES**

6" Solid Yellow Line

-6" Solid White

Edge Line

ALLEY, PRIVATE ROAD

OR MINOR DRIVEWAY

6" Solid Yellow Line

 $\Diamond$ 

 $\Diamond$ 

➾

➾

3"to 12"+| |+

For posted speed on road

being marked equal to or greater than 45 MPH.

YIELD LINES

For posted speed on road

being marked equal to or less than 40 MPH.

ف

ALLEY. PRIVATE ROAD

OR MINOR DRIVEWAY

6" White Lane Line

Solid

TYPICAL MULTI-LANE, TWO-WAY PAVEMENT

MARKINGS THROUGH INTERSECTIONS

18" min. - 20" max.

(16" minimum for

restripe projects when approved by

the Engineer.)

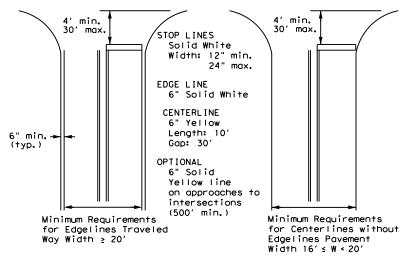
Edge Line

White

- 1. Edge line striping shall be as shown in the plans or as directed by the Engineer. The edge line should not be placed less than 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions. Edge lines are not required in curb and gutter sections of roadways.
- 2. The traveled way includes only that portion of the roadway used for vehicular travel. It does not include the parking lanes, sidewalks, berms and shoulders. The traveled ways shall be measured from the center of edge line to the center of edge line of a two lane roadway.

| MATERIAL SPECIFICATIONS                   |          |
|---|----------|
| PAVEMENT MARKERS (REFLECTORIZED)          | DMS-4200 |
| EPOXY AND ADHESIVES                       | DMS-6100 |
| BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS  | DMS-6130 |
| TRAFFIC PAINT                             | DMS-8200 |
| HOT APPLIED THERMOPLASTIC                 | DMS-8220 |
| PERMANENT PREFABRICATED PAVEMENT MARKINGS | DMS-8240 |

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



NOTE: Traveled way is exclusive of shoulder widths. Refer to General Note 2 for additional details.

#### GUIDE FOR PLACEMENT OF STOP LINES. EDGE LINE & CENTERLINE

Based on Traveled Way and Pavement Widths for Undivided Roadways



### TYPICAL STANDARD PAVEMENT MARKINGS

Traffic Safety Division Standard

PM(1)-22

| ▼-                         |      | •        |          |     |         |           |
|----------------------------|------|----------|----------|-----|---------|-----------|
| E: pm1-22,dgn              | DN:  |          | CK:      | DW: |         | CK:       |
| TxDOT December 2022        | CONT | SECT JOB |          | нІ  | HIGHWAY |           |
| REVISIONS<br>-78 8-00 6-20 | 0095 | 08       | 021,E1   | c   | US 8    | 0,E+c     |
| 95 3-03 12-22              | DIST |          | COUNTY   |     |         | SHEET NO. |
| 00 2-12                    | TYL  |          | SMITH, I | E†c |         | 73        |

2. Install median striping (double yellow centerlines and stop lines/yield yield signs.

control. Stop signs and stop bars are optional as determined by the

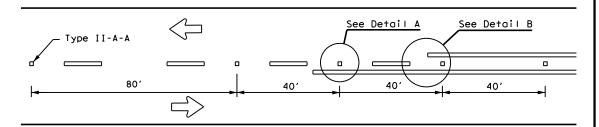
lines) when a 50' or greater median centerline can be placed. Stop lines shall only be used with stop signs. Yield lines shall only be used with

Each median opening has two width measurements, with one measurement for

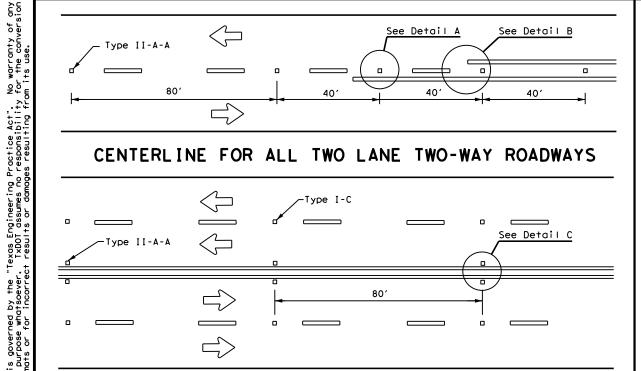
each approach. The narrow median width will be the controlling width to

determine if signs are required. Yield signs are the typical intersection

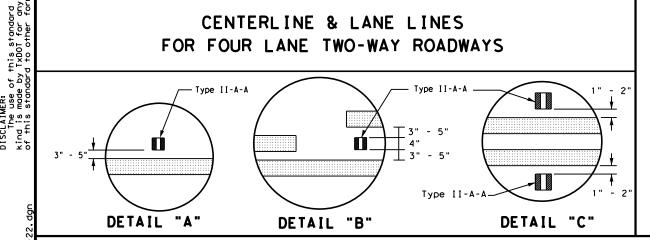
3. Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer.



#### CENTERLINE FOR ALL TWO LANE TWO-WAY ROADWAYS

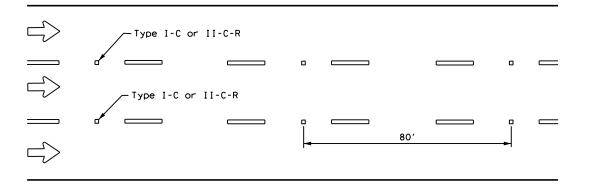


### CENTERLINE & LANE LINES FOR FOUR LANE TWO-WAY ROADWAYS



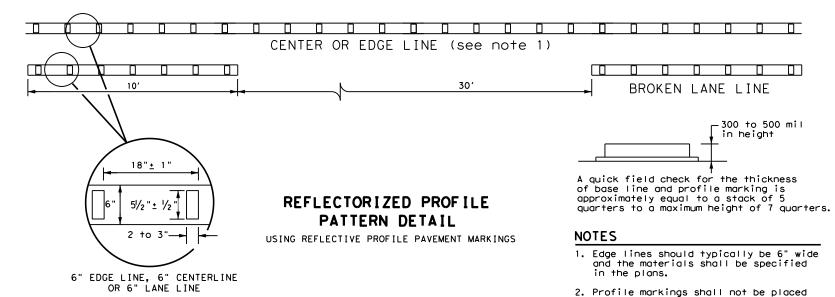
### Centerline Symmetrical around centerline Continuous two-way left turn lane Type II-A-A 40 80' Type I-C

#### CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



#### LANE LINES FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)

Raised pavement markers Type II-C-R shall have clear face toward normal traffic and red face toward wrong-way traffic. See Note 3.

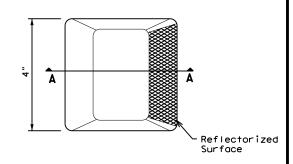


#### GENERAL NOTES

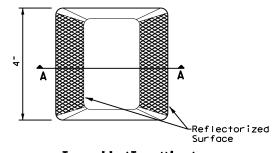
- All raised pavement markers placed along broken lines shall be placed in line with and midway between
- 2. On concrete pavements the raised pavement markers should be placed to one side of the longitudinal
- Use raised pavement marker Type I-C with undivided roadways, flush medians and two way left turn lanes. Use raised pavement marker Type II-C-R with divided highways and raised medians.

|     | MATERIAL SPECIFICATIONS                   |          |
|-----|---|----------|
|     | PAVEMENT MARKERS (REFLECTORIZED)          | DMS-4200 |
| _   | EPOXY AND ADHESIVES                       | DMS-6100 |
|     | BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS  | DMS-6130 |
|     | TRAFFIC PAINT                             | DMS-8200 |
|     | HOT APPLIED THERMOPLASTIC                 | DMS-8220 |
|     | PERMANENT PREFABRICATED PAVEMENT MARKINGS | DMS-8240 |
| - 1 |   |          |

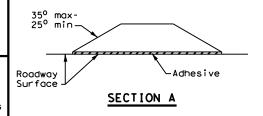
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



Type I (Top View)



Type II (Top View)



### RAISED PAVEMENT MARKERS



Traffic Safety Division Standard

### POSITION GUIDANCE USING RAISED MARKERS RELECTORIZED PROFILE **MARKINGS** PM(2) - 22

| FILE: pm2-22.dgn            | DN:  |      | CK:      | DW:  | CK:       |  |
|-----------------------------|------|------|----------|------|-----------|--|
| ℂTxDOT December 2022        | CONT | SECT | JOB      |      | HIGHWAY   |  |
| REVISIONS<br>4-77 8-00 6-20 | 0095 | 08   | 021,E1   | c US | 80,Etc    |  |
| 4-92 2-10 12-22             | DIST |      | COUNTY   |      | SHEET NO. |  |
| 5-00 2-12                   | TYL  |      | SMITH, I | E†c  | 74        |  |

on roadways with a posted speed limit of 45 MPH or less.

Pavement

RIGHT LANE

Edge ·

#### NOTES

- 1. Lane reduction pavement markings are used where the number of through lanes is reduced because of narrowing of the roadway or because of a section of on\_street parking in\_what would otherwise be a through lane. For Texas Super 2 Passing Lanes, see TS2(PL) standard sheets.
- 2. On divided highways, an additional RIGHT LANE ENDS (W9-1R) sign may be installed in the median aligned with the W9-1R sign on the right side of the highway.
- 3. Lane reduction arrows are required for speeds of 45 mph or greater. An optional third lane reduction arrow may be added based on engineering judgement. If used, the optional third lane reduction arrow should be centered between the first and last lane reduction arrows.
- For lane reductions on Freeways and Expressways, signing shall conform to the TxDOT Freeway Signing Handbook.

|                 | D WARNING |                       |
|-----------------|-----------|-----------------------|
| Posted<br>Speed | D (ft)    | L (f+)                |
| 30 MPH          | 460       | <sub>wc</sub> 2       |
| 35 MPH          | 565       | $L = \frac{WS^2}{60}$ |
| 40 MPH          | 670       | 00                    |
| 45 MPH          | 775       |                       |
| 50 MPH          | 885       |                       |
| 55 MPH          | 990       |                       |
| 60 MPH          | 1,100     | L=WS                  |
| 65 MPH          | 1,200     |                       |
| 70 MPH          | 1,250     |                       |
| 75 MPH          | 1,350     |                       |

### Type II-A-A Markers $\diamondsuit$ 20 $\diamondsuit$ ₹>

A two-way left-turn (TWLT) lane-use arrow pavement marking should be used at or just downstream from the beginning of a two-way left-turn lane within a corridor. Repeating the marking after each intersection or dedicated turn bay is not required unless stated elsewhere in the plans.

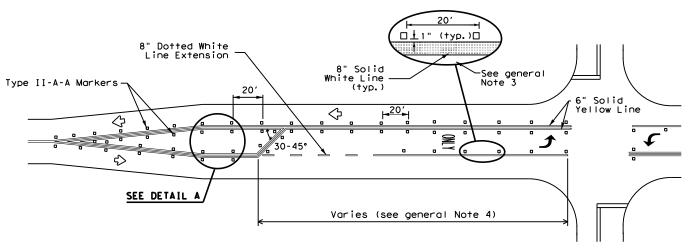
#### TYPICAL TRANSITION FOR TWLTL AND DIVIDED HIGHWAY

#### GENERAL NOTES

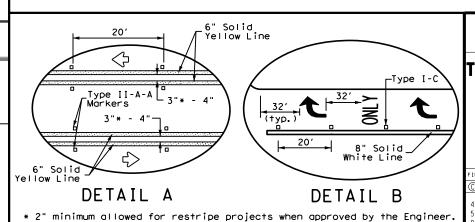
- 1. Lane use word and arrow markings shall be used where through lanes approaching an intersection become mandatory turn lanes. Lane use word and arrow markings should be used in auxiliary lanes of substantial length. Lane use arrow markings or word and arrow markings may be used in other lanes and turn bays for emphasis. Details for words and arrows are as shown in the Standard Highway Sign Designs for Texas.
- 2. When lane-use words and arrow markings are used. two sets of arrows should be used if the length of the bay is greater than 180 feet. When a single lane use arrow or word and arrow marking is used for a short turn lane, it should be located at or near the upstream end of the full-width turn lane.
- Use raised pavement marker Type I-C with undivided highways, flush medians and two way left turn Use raised pavement marker Type II-C-R with divided highways and raised medians.
- 4. Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer. See Chapter 3 of the Roadway Design Manual for additional information on turning lanes or storage lengths.

| MATERIAL SPECIFICATIONS                   |          |
|---|----------|
| PAVEMENT MARKERS (REFLECTORIZED)          | DMS-4200 |
| EPOXY AND ADHESIVES                       | DMS-6100 |
| BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS  | DMS-6130 |
| TRAFFIC PAINT                             | DMS-8200 |
| HOT APPLIED THERMOPLASTIC                 | DMS-8220 |
| PERMANENT PREFABRICATED PAVEMENT MARKINGS | DMS-8240 |

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



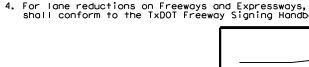
### TYPICAL TWO-LANE ROADWAY INTERSECTION WITH LEFT TURN BAYS

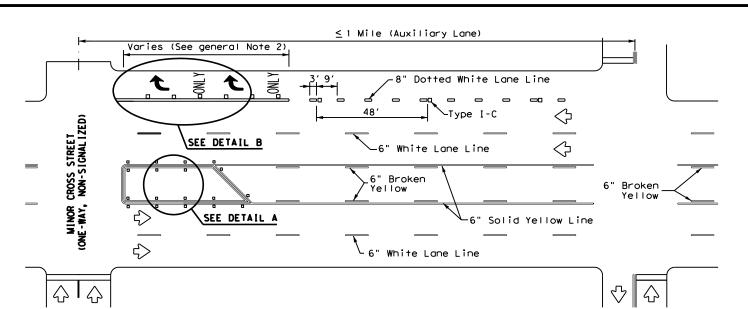




### RURAL LEFT TURN BAYS. AND LANE REDUCTION PAVEMENT MARKINGS PM(3) - 22

| FILE: pm3-22.dgn            | DN:  |      | CK:      | DW: | CK:       |
|-----------------------------|------|------|----------|-----|-----------|
| © TxDOT December 2022       | CONT | SECT | JOB      |     | HIGHWAY   |
| REVISIONS<br>4-98 3-03 6-20 | 0095 | 08   | 021,E1   | c U | S 80,Etc  |
| 5-00 2-10 12-22             | DIST |      | COUNTY   |     | SHEET NO. |
| 8-00 2-12                   | TYL  |      | SMITH, I | E†c | 75        |





LANE REDUCTION

Lane-Reduction

Arrow

D/4

6" Dotted White

D/2

Lane Line

D/4

MERGE LEFT

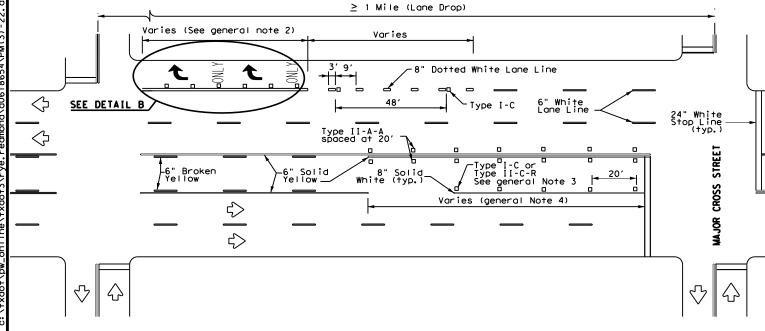
W9-2TL

Paved Shoulder

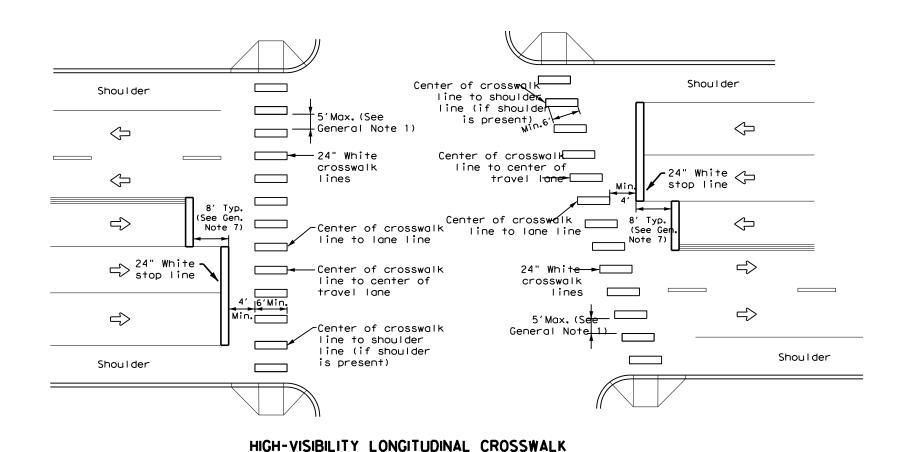
300' -500

(Optional)

#### TYPICAL TWLTL AT ONE-WAY STREET AND RIGHT TURN AUXILIARY LANE



TYPICAL TWLTL AT TWO-WAY CROSS STREET AND RIGHT TURN LANE DROP



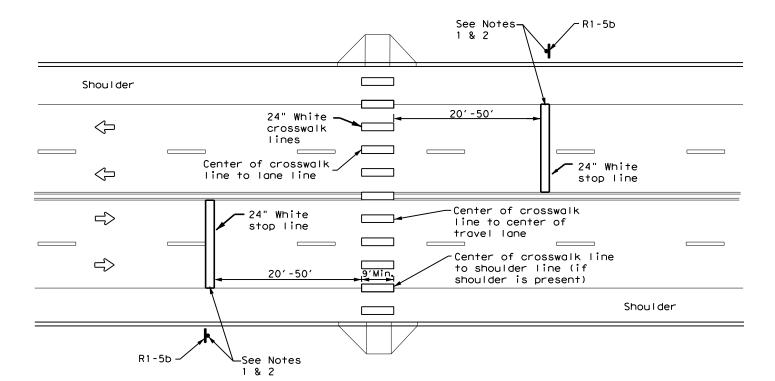
AT CONTROLLED APPROACH

### GENERAL NOTES

- Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travel lanes, lane lines, and shoulder lines (if present).
- A minimum 6" clear distance shall be provided to the curb face.
   If the last crosswalk line falls into this distance it must be omitted.
- 3. For divided roadways, adjustments in spacing of the crosswalk lines should be made in the median so that the crosswalk lines are maintained in their proper location across the travel portion of the roadway.
- At skewed crosswalks, the crosswalk lines are to remain parallel to the lane lines.
- 5. Each crosswalk shall be a minimum of 6' wide.
- 6. The High-Visibility Longitudinal Crosswalk is the preferred crosswalk pattern on State Highways. Other crosswalk patterns as shown in the "Texas Manual on Uniform Traffic Control Devices may be used. All crosswalk designs and dimension shall comply with the "Texas Manual on Uniform Traffic Control Devices."
- Final placement of Stop Bar and Crosswalk shall be approved by the Engineer in the field.

| MATERIAL SPECIFICATIONS                   |          |
|---|----------|
| PAVEMENT MARKERS (REFLECTORIZED)          | DMS-4200 |
| EPOXY AND ADHESIVES                       | DMS-6100 |
| BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS  | DMS-6130 |
| TRAFFIC PAINT                             | DMS-8200 |
| HOT APPLIED THERMOPLASTIC                 | DMS-8220 |
| PERMANENT PREFABRICATED PAVEMENT MARKINGS | DMS-8240 |

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



# UNSIGNALIZED MID BLOCK HIGH-VISIBILITY LONGITUDINAL CROSSWALK

#### NOTES:

- Use stop bars with Stop Here For Pedestrians (R1-5b) signs at unsignalized midblock cross walks.
- Use stop bars with STOP HERE ON RED (R10-6 or R10-6a) signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.

CROSSWALK WIDTH = 9' FOR APPROACH SPEEDS OF 30 MPH OR LESS CROSSWALK WIDTH = 12' FOR APPROACH SPEEDS OF 35 MPH OR MORE





CROSSWALK
PAVEMENT MARKINGS

Traffic Safety Division Standard

PM(4)-22A (MOD)

| TYL| | SMITH, E†c | TKS | TKS | TKS | TYL| | TYL|

09/21/2023

22D

Solid-White Edge Line

75

-See Roadway Design Manual for minimum shoulder width

-Bridge Rail

or Face of Curb

Guard Fence

Guard Fence

#### NOTES

- 1. Edge line striping shall be as shown in the plans or as directed by the Engineer. The edge line should not be placed less than 4 inches from the bridge rail or face of curb or 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions.
- 2. No-passing zone on bridge approach is optional. If used, the no-passing zone shall be a minimum 500 feet long from the beginning of the bridge.
- 3. The crosshatching should be required if the shoulder width in advance of the bridge is 4 feet or wider and a reduction of at least 3 feet in shoulder width across the bridge occurs.
- 4. On divided highways, review both the right and left shoulder widths for the need for narrow bridge pavement

| MATERIAL SPECIFICATIONS                   |          |
|---|----------|
| PAVEMENT MARKERS (REFLECTORIZED)          | DMS-4200 |
| EPOXY AND ADHESIVES                       | DMS-6100 |
| BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS  | DMS-6130 |
| TRAFFIC PAINT                             | DMS-8200 |
| HOT APPLIED THERMOPLASTIC                 | DMS-8220 |
| PERMANENT PREFABRICATED PAVEMENT MARKINGS | DMS-8240 |

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

·Solid White Edge Line

# Texas Department of Transportation

PAVEMENT MARKINGS FOR ROADWAYS WITH REDUCED SHOULDER WIDTHS ACROSS BRIDGE OR CULVERT

Traffic Safety Division Standard

PM(5) - 22

| · · · · · · · · · · · · · · · · · · · |        | -               |           |        |       |           |
|---------------------------------------|--------|-----------------|-----------|--------|-------|-----------|
| LE: pm5-22.dgn                        | DN: Tx | DOT             | ck: TxDOT | DW:    | TxDOT | ck: TxDOT |
| TxDOT December 2022                   | CONT   | ONT SECT JOB HI |           | IGHWAY |       |           |
| REVISIONS                             | 0095   | 08              | 021,E1    | С      | US 8  | 0,Etc     |
|                                       | DIST   |                 | COUNTY    |        |       | SHEET NO. |
|                                       | TYL    |                 | SMITH, I  | E†c    | ;     | 77        |

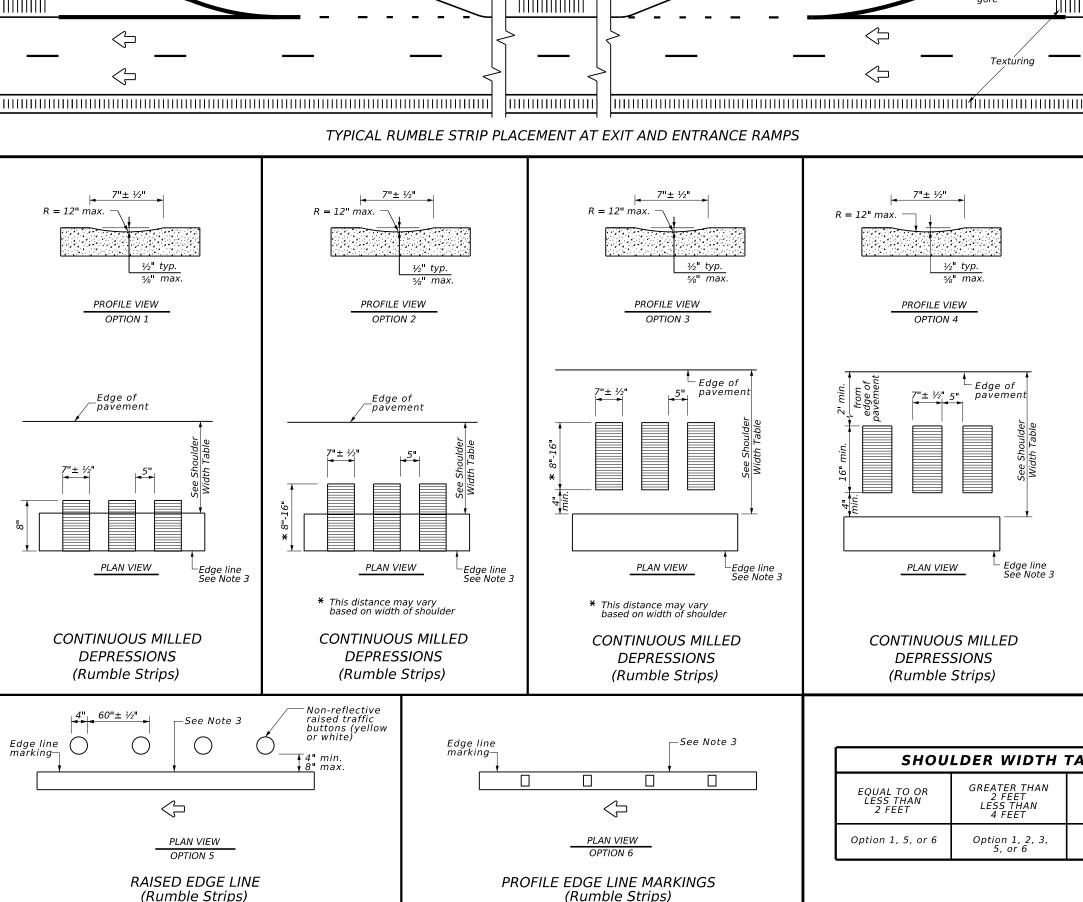
ROADWAYS WITH REDUCED SHOULDER WIDTHS ACROSS BRIDGE OR CULVERT

See latest MBGF and standard sheets for proper placement and allowable taper of MBGF and SGT.

-See D&OM standard sheets

for Bridge Rail Reflector,

Physical gore



250'

min.

# ½" typ. 5/8" max PROFILE VIEW OPTION 4 $^{ t L}$ Edge of pavement

PLAN VIEW

CONTINUOUS MILLED

**DEPRESSIONS** 

(Rumble Strips)

Physical gore

Textúring

 $\langle \neg$ 

#### **GENERAL NOTES**

- 1. Rumble strips and profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 2. Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge
- 3. Use standard sheets PM(2) and FPM(1) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings, and
- 4. See the Shoulder Width Table below for determining what options may be used for edge line rumble strips.
- 5. Breaks in edge line rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections, or driveways with high usage of large trucks when installed on conventional
- 6. Rumble strips shall not be placed across exit or entrance ramps, acceleration or deceleration lanes, crossovers, gore areas, or intersections
- 7. Consideration should be given to noise levels when edge line rumble strips are to be installed near residential areas, schools, churches, etc. A 3/8 inch deep (minimum) milled rumble strip may be considered in these areas.
- 8. Consideration shall be given to bicyclists. See RS(6)

#### WHEN INSTALLING MILLED DEPRESSION EDGE LINE RUMBLE STRIPS:

- 9. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Safety Division.
- 10. Pavement markings can be applied over milled shoulder rumble strips to create an edge line rumble stripe.

#### WHEN INSTALLING RAISED OR PROFILE EDGE LINE RUMBLE STRIPS:

- 11. Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per the manufacturer's recommendations.
- 12. Non-reflective traffic buttons shall be placed adjacent to the pavement marking delineating the edge line when used as a rumble strip. The color of the button should match the color of the adjacent edge line marking (white or yellow). The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 13. Non-reflective traffic buttons shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 14. The minimum distance between the edge line and the buttons should be used if the shoulder is less than 8 feet in width.
- 15. Raised profile thermoplastic markings used as edge lines may substitute for

| SHOULDER WIDTH TABLE               |   |                                       |  |  |  |  |  |
|------------------------------------|---|---------------------------------------|--|--|--|--|--|
| EQUAL TO OR<br>LESS THAN<br>2 FEET | GREATER THAN<br>2 FEET<br>LESS THAN<br>4 FEET | EQUAL TO OR<br>GREATER THAN<br>4 FEET |  |  |  |  |  |
| Option 1, 5, or 6                  | Option 1, 2, 3,<br>5, or 6                    | Option 2, 4,<br>5, or 6               |  |  |  |  |  |

See Note 3

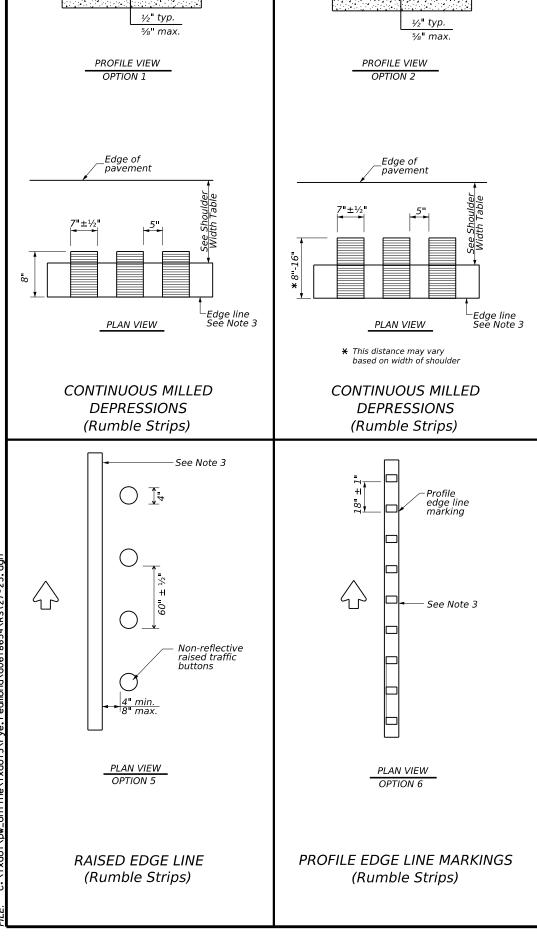


### EDGE LINE RUMBLE STRIPS ON FREEWAYS AND **DIVIDED HIGHWAYS** RS(1)-23

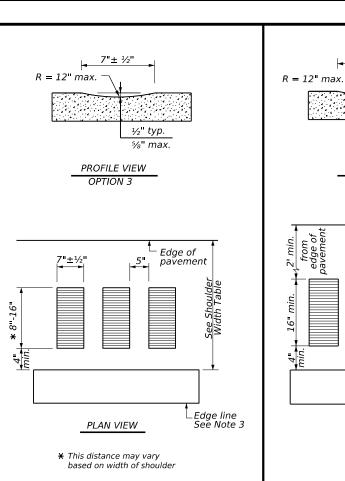
Traffic Safety Division Standard

| FILE: rs(1)-23.dgn  | DN: TX | DOT  | CK: TxDOT DW: | TxD0 | T ck:TxD0T |
|---------------------|--------|------|---------------|------|------------|
| ©TxDOT January 2023 | CONT   | SECT | JOB           | 1    | HIGHWAY    |
| REVISIONS           | 0095   | 08   | 021,Etc       | US   | 80,Etc     |
| 4-06 1-23<br>2-10   | DIST   |      | COUNTY        |      | SHEET NO.  |
| 10-13               | TYL    |      | SMITH,Etc     |      | 78         |
| 0.0                 |        |      |               |      |            |

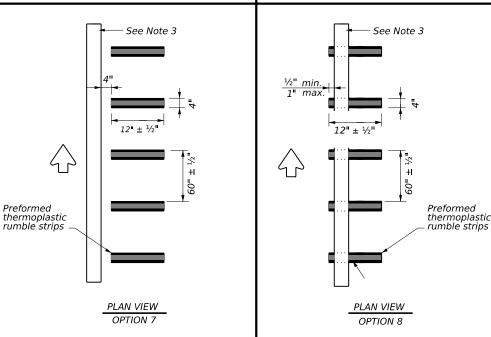
 $R = 12'' \, max.$ 



R = 12" max.



CONTINUOUS MILLED DEPRESSIONS (Rumble Strips)



PREFORMED THERMOPLASTIC EDGE LINE (Rumble Strips)

#### **GENERAL NOTES**

½" typ.

5/8" max.

 $^{ldash}$  Edge of

Edge line See Note 3

PROFILE VIEW

OPTION 4

7"±½", 5"

PLAN VIEW

**CONTINUOUS MILLED** 

**DEPRESSIONS** 

(Rumble Strips)

PREFORMED THERMOPLASTIC

**EDGE LINE** 

(Rumble Strips)

- 1. Rumble strips and profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 2. Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 3. Use Standard Sheet PM(2) and FPM(1) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings, and profile markings.
- 4. See the Shoulder Width Table below for determining what options may be used for edge line rumble strips.
- 5. Breaks in edge line rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections, or driveways with high usage of large trucks when installed on conventional highways.
- 6. Rumble strips shall not be placed across exit or entrance ramps, acceleration or deceleration lanes, crossovers, gore areas, or intersections with other roadways.
- 7. Consideration should be given to noise levels when edgeline rumble strips are to be installed near residential areas, schools, churches, etc. A 3/8 inch deep (minimum) milled rumble strip may be considered in these areas.
- 8. Consideration shall be given to bicyclists. See RS(6).

#### WHEN INSTALLING MILLED DEPRESSION EDGE LINE RUMBLE STRIPS:

- 9. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Safety Division.
- 10. Pavement markings can be applied over milled shoulder rumble strips to create an edge line rumble strip.

#### WHEN INSTALLING RAISED OR PROFILE EDGE LINE RUMBLE STRIPS:

- 11. Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per the manufacturer's recommendations.
- 12. Non-reflective traffic buttons shall be placed adjacent to the pavement marking delineating the edge line when used as a rumble strip. The color of the button should match the color of the adjacent edge line marking (white or yellow). The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 13. Non-reflective traffic buttons shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 14. The minimum distance between the edge line and the buttons should be used if the shoulder is less than 8 feet in width.
- 15. Raised profile thermoplastic markings used as edge lines may substitute for buttons.



| FILE:         | rs(2)-23.dgn | DN: TX | DOT  | CK: TXDOT DW: | TxD0T | ck:TxD0T  |
|---------------|--------------|--------|------|---------------|-------|-----------|
| ©TxDOT        | January 2023 | CONT   | SECT | JOB           | н     | IGHWAY    |
| 10.12         |              |        | 08   | 021,Etc       | US    | 80,Etc    |
| 10-13<br>1-23 |              |        |      | COUNTY        |       | SHEET NO. |
|               |              | TYL    |      | SMITH,Etc     |       | 79        |

91

#### GENERAL NOTES

- 1. This standard sheet provides guidelines for installing centerline rumble strips on multilane undivided highways.
- 2. Centerline and edge line rumble strips or profile markings shall not be placedon roadways with a posted speed limit of 45 MPH or less.
- Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 4. See dimensions for milled rumble strips. Other shapes and dimensions may beused if approved by the Traffic Safety Division.
- 5. Breaks in milled centerline rumble strips shall occur at least 50 feet and nomore than 150 feet in advance of bridges, railroad crossing, intersections ordriveways with high usage of large trucks.
- Use standard sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings and profile markings.
- Consideration should be given to noise levels when centerline rumble strips are to be installed near residential areas, schools, churches, etc. A 3/8 inch deep (minimum) milled rumble strip may be considered in these areas.
- 8. Pavement markings must be applied over milled centerline rumble strips for normal centerline spacing. For wider medians, specify in the plans the exact placement of the rumble strips. Place the rumble strips under each centerline marking or centered in the middle of the median.

#### WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

- Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per manufacturer's recommendations.
- 10. When using non-reflective raised traffic buttons as a centerline rumble strip, the button shall be placed adjacent to the pavement marking delineating the centerline. The color of the button should be yellow for a continuous no passing roadway. The button will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 11. Consideration shall be given to bicyclists. See RS(6).

### WHEN INSTALLING EDGE LINE RUMBLE STRIPS WITH OR WITHOUT CENTERLINE RUMBLE STRIPS ON UNDIVIDED HIGHWAYS:

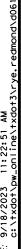
12. See standard sheet RS(2).

Texas Department of Transportation

Traffic Safety Division Standard

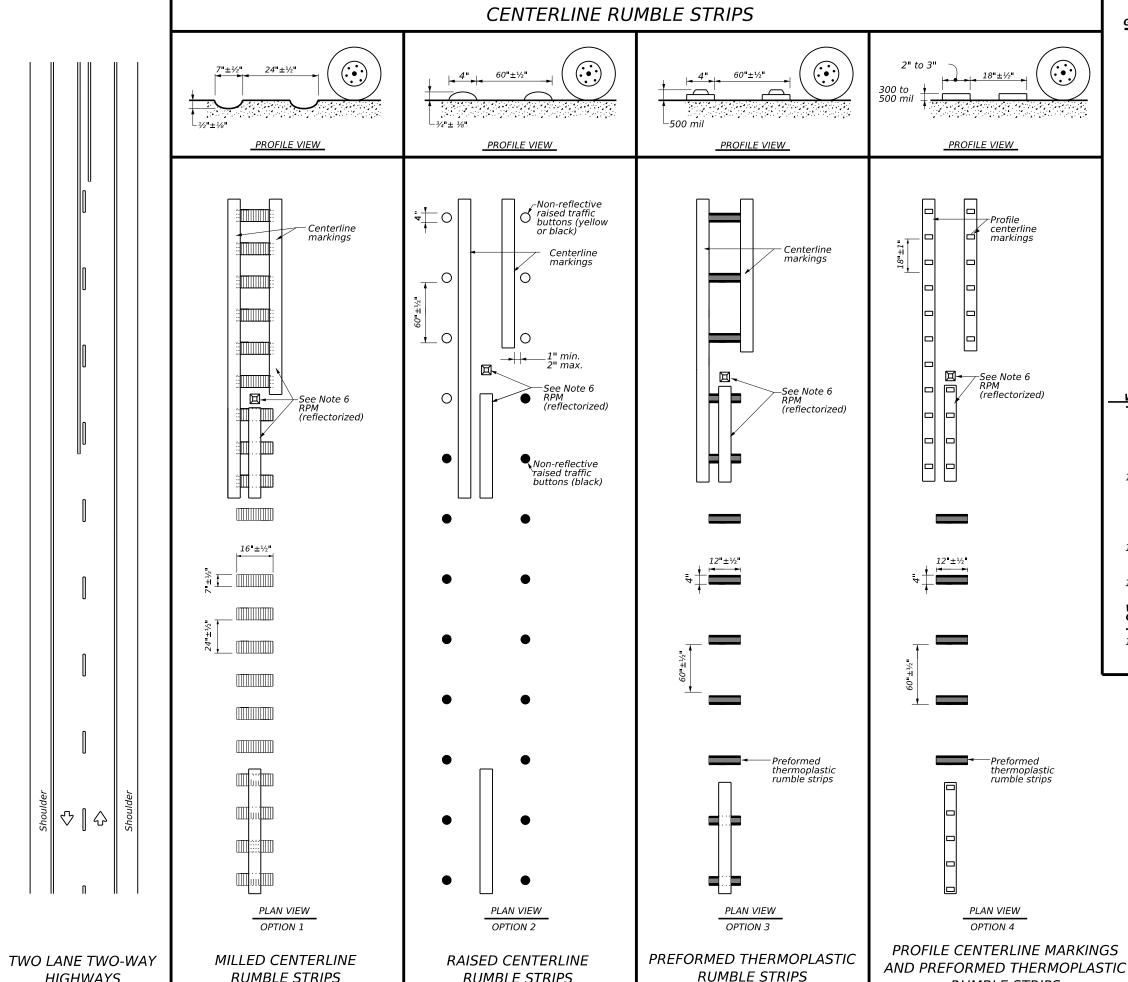
CENTERLINE RUMBLE STRIPS ON MULTILANE UNDIVIDED HIGHWAYS RS(3)-23

92



**HIGHWAYS** 

**RUMBLE STRIPS** 



**RUMBLE STRIPS** 

#### **GENERAL NOTES**

- 1. This standard sheet provides guidelines for installing centerline rumble strips on two-lane highways with or without shoulders.
- 2. Centerline and edge line rumble strips or profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- 3. Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 4. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Safety Division.
- 5. Breaks in milled centerline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections or driveways with high usage of large trucks.
- 6. Use standard sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings and profile
- 7. Consideration should be given to noise levels when centerline rumble strips are to be installed near residential areas, schools, churches, etc. A 3/8 inch deep (minimum) milled rumble strip may be considered in these
- 8. Pavement markings must be applied over milled centerline rumble strips.

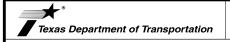
#### WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

- 9. Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per manufacturer's recommendations.
- 10. When using non-reflective raised traffic buttons as a centerline rumble strip, the button shall be placed adjacent to the pavement marking delineating the centerline. The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 11. The color of the button should be yellow for a continuous no passing roadway. Black buttons should be used in areas where passing is allowed.
- 12. Consideration shall be given to bicyclists. See RS(6).

### WHEN INSTALLING EDGE LINE RUMBLE STRIPS WITH OR WITHOUT CENTERLINE RUMBLE STRIPS ON UNDIVIDED HIGHWAYS:

13. See standard sheet RS(2).

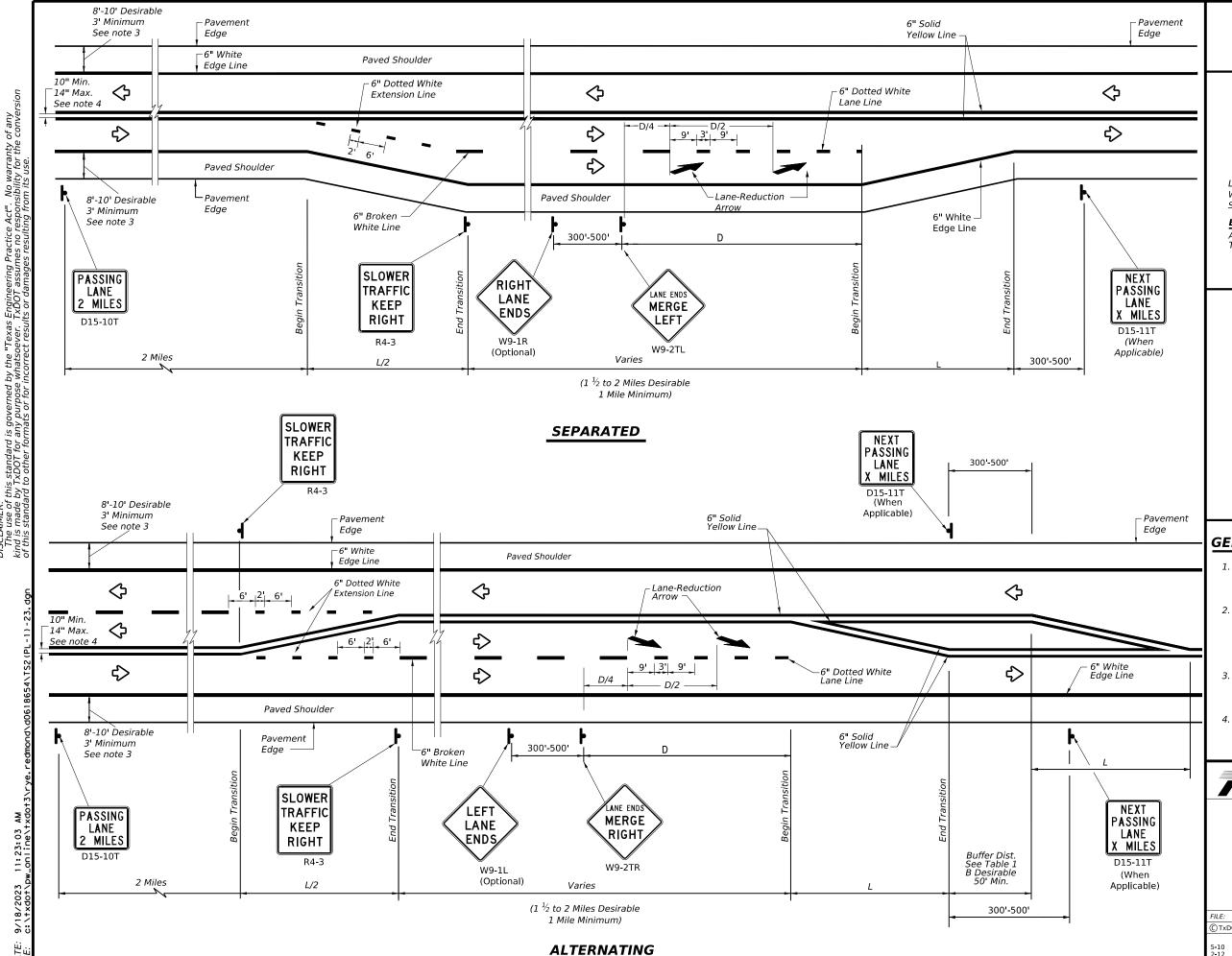
**RUMBLE STRIPS** 



**CENTERLINE RUMBLE STRIPS** ON TWO LANE TWO-WAY HIGHWAYS RS(4)-23

Traffic Safety Division Standard

| FILE: rs(4)   | )-23.dgn     | DN: T | (DOT | ck: TxD0T | DW: | TxD0T | ck:TxD0T  |
|---------------|--------------|-------|------|-----------|-----|-------|-----------|
| © TxDOT       | January 2023 | CONT  | SECT | JOB       |     | Н     | IGHWAY    |
| REVISIONS     |              | 0095  | 08   | 021,Etc   | :   | US    | 80,Etc    |
| 10-13<br>1-23 |              | DIST  |      | COUNTY    |     |       | SHEET NO. |
|               |              | TYL   |      | SMITH,E   | tc  |       | 81        |



LEGEND • Sign ❖ Traffic Flow

TYPICAL TAPER LENGTH (L) Formula L = WS

\* Transition length should be rounded up to nearest 5 foot increment.

L=Length of Transition (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

#### **EXAMPLE**

A 12 foot lane is added on a 70 mph roadway. The length of the transition should be:

L=12x70=840 ft

#### TABLE 1 ADVANCE WARNING SIGN DISTANCE (D) AND BUFFER DISTANCE (B)

| Posted Speed | D (FT) | B (FT) |  |  |
|--------------|--------|--------|--|--|
| 40           | 670    | 305    |  |  |
| 45           | 775    | 360    |  |  |
| 50           | 885    | 425    |  |  |
| 55           | 990    | 495    |  |  |
| 60           | 1100   | 570    |  |  |
| 65           | 1200   | 645    |  |  |
| 70           | 1250   | 730    |  |  |
| <i>75</i>    | 1350   | 820    |  |  |

#### **GENERAL NOTES**

- 1. For minimum and desirable design details, see the Roadway Design Manual, Chapter 4, Section 6, Super 2 Highways.
- 2. For Raised Pavement Markers (RPM) details, see Pavement Markings Standard sheet, PM(2) -Centerline for All Two Lane Two-Way Roadways. Note that RPMs are not recommended on the 6" dotted white extension lines.
- 3. For rumble strip options available for the designed shoulder width, see Rumble Strip Standard sheet
- 4. For pavement marking details, see Pavement Marking Standard sheet PM(1).

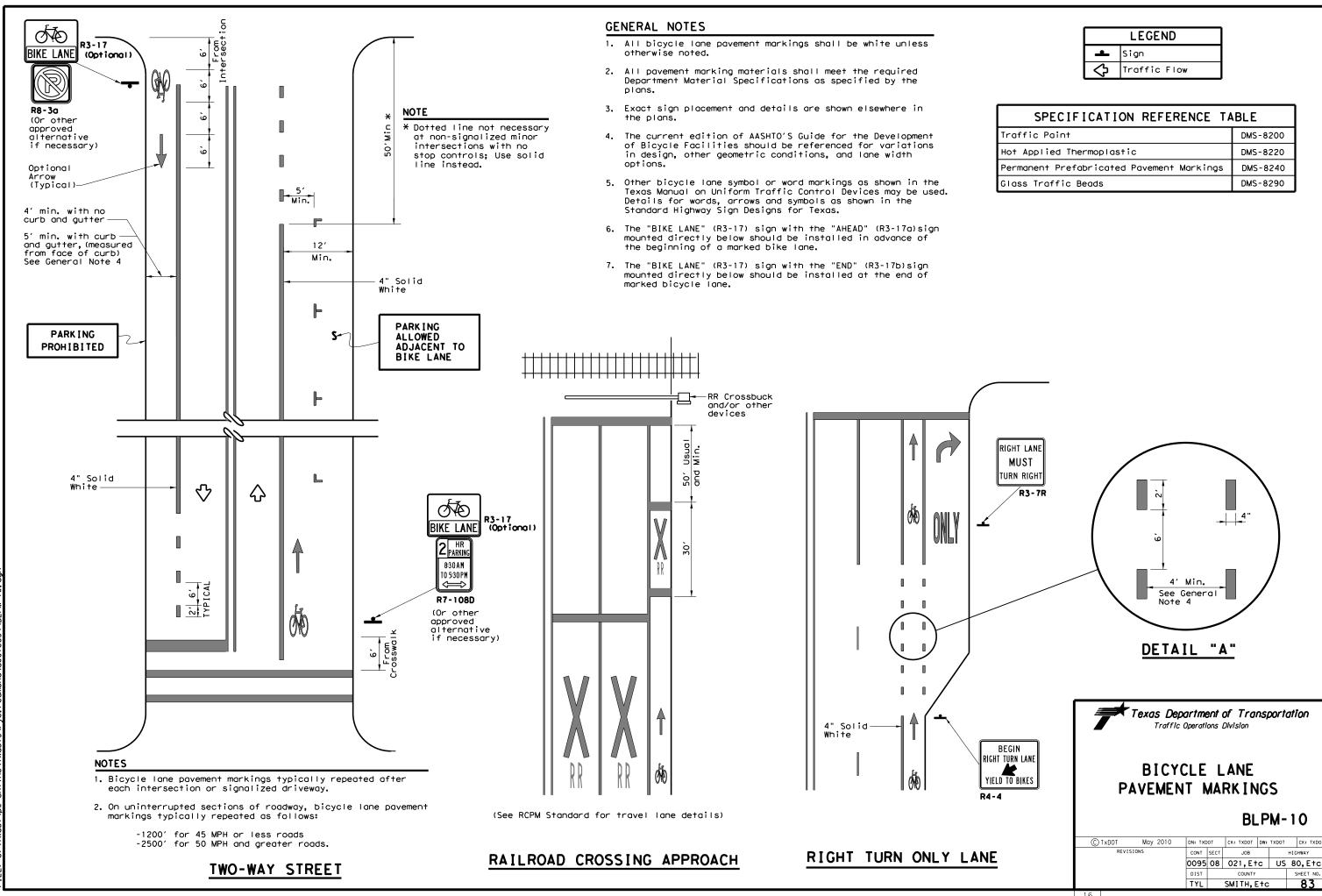


Traffic Safety Division Standard

### **TEXAS SUPER 2 PASSING LANES**

TS2(PL-1)-23

| Ξ:  | ts2          | -1-23.dgn     | DN:  |      | CK: DW:   |    | CK:       |
|-----|--------------|---------------|------|------|-----------|----|-----------|
| ГхС | ОТ           | February 2023 | CONT | SECT | JOB       |    | HIGHWAY   |
| _   | REVISIONS    |               | 0095 | 80   | 021,Etc U |    | IS 80,Etc |
| 0   | 3-18<br>2-23 |               | DIST |      | COUNTY    |    | SHEET NO. |
| 2   |              |               | TYL  |      | SMITH,E   | tc | 82        |



| ⊔ This proj<br>DOT No.: <sup>79</sup>  | ect is adjacent or parallel work, not within RR ROW:   |
|--|--|
|  | DOE: HIGHWAY AT GRADE (RR AT GRADE)  |
|  | y Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]   |
|  | y Owning Track at Crossing: [UP]   |
| RR MP: 010   |  |
|  | ion: MINEOLA   |
| City: GLADE  |  |
| County: GR   |  |
| CSJ at this  | Crossing: 0165-03-039  |
| Latitude: 3  | 2.5346150  |
| Longitude: _   | 94.9444244   |
| Scope of Wo  | ork, including any TCP, to be performed by State Contractor:   |
| APPLY SUR  | FACE TREATMENT AND STRIPING TO EXISTING ROADWAY  |
| Scope of Wo  | ork to be performed by Railroad Company:   |
|  |  |
| II. FLAG   | GING & INSPECTION  |
|  | GGING & INSPECTION  of Railroad Flagging Expected: 2   |
| No. of Days  |  |
| No. of Days<br>On this proj  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| No. of Days<br>On this proj<br>□ Expected  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| No. of Days<br>On this proj<br>□ Expected<br>☑ Not Expe  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: I  |
| No. of Days On this proj □ Expectec ☑ Not Expe Flagging sei □ Railroad   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| No. of Days On this proj □ Expected ☑ Not Expe Flagging set □ Railroad needed of   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be  |
| No. of Days On this proj. Expected Not Expe Flagging set Railroad needed of Outside I Contractor r requires a 3 to their own   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 60-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| No. of Days On this proj. Expected Not Expe Railroad needed of Outside I Contractor r requires a 3 to their own by Contractor  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 60-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| No. of Days On this proj. Expected Not Expe Railroad needed of Outside I Contractor r requires a 3 to their own by Contractor  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: deted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com   |
| No. of Days On this proj. □ Expected ☑ Not Expe □ Railroad needed of ☑ Outside I Contractor r requires a 3 to their own by Contract                                  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or. primation for Flagging:   |
| No. of Days On this proj □ Expected ☑ Not Expe □ Railroad needed o ☑ Outside I Contractor r requires a 3 to their own by Contract ☑ UPRR                             | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net  |
| No. of Days On this proj. Expected Not Expe Flagging set Railroad needed of Outside I Contractor r requires a 3 to their own by Contract                             | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected excited exc |
| No. of Days On this projication Expected Not Expected Not Expected Railroad needed of Outside I Contractor r requires a 3 to their own by Contract Contact Info UPRR | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  detect rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be pr. 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com  |

| Contractor must incorporate railroad construction ins  ✓ Not Required  □ Required. Contact Information for Construction I   |  |
|---|--|
| III. CONSTRUCTION WORK TO BE PERFOR   | MED BY THE RAILROAD  |
| ☐ Required.  ☑ Not Required Railroad Point of Contact:  Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Com   |  |
| IV. RAILROAD INSURANCE REQUIREMENT  | 'S   |
| The Contractor shall confirm the insurance required are subject to change without notice.   | nents with the Railroad as the insurance limits  |
| Insurance policies and corresponding certificates o<br>on behalf of the Railroad. Separate insurance polici<br>than one Railroad Company is operating on the sam<br>Companies are involved and operate on their own s | ies and certificates are required when more<br>ne right of way, or when several Railroad |
| No direct compensation will be made to the Contract shown below or any deductibles. These costs are in  |  |
| Escalated   | Limits   |
| Type of Insurance   | Amount of Coverage (Minimum)   |
| Workers Compensation  | \$500,000 / \$500,000 / \$500,000  |
| Commercial General Liability  | \$2,000,000 / \$4,000,000  |
| Business Automobile   | \$2,000,000  |
| Railroad Protective   | Liability Limits   |
| □ Not Poquired  |  |

| Railroad Protective Liabilit  | ty Limits                  |
|---|----------------------------|
| ☐ Not Required  |                            |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                               | \$5,000,000 / \$10,000,000 |
| □ Other:  |                            |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| □ BNSF:  |
| https://bnsf.railpermitting.com                                  |
| □ CPKCR  |
| https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12           |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| Call: [UP] | J ,                                 |  |
|------------|-------------------------------------|--|
|            |                                     |  |
| Railroad I | Emergency Line at: 800 - 848 - 8715 |  |
| Location:  | DOT 794658C                         |  |
| RR Milep   | ost: 0102.770                       |  |
|            | on: MINEOLA                         |  |





### **RAILROAD SCOPE OF WORK**

| E: rr-scope-of-work.pdf  TxDOT June 2014 |  | DN: TX | DOT  | CK:      | DW: |      | ск:       |
|--|--|--------|------|----------|-----|------|-----------|
|  |  | CONT   | SECT | JOB      |     | HIG  | HWAY      |
| REVISIONS                                |  | 0095   | 08   | 021, Etc |     | US 8 | 80, Etc   |
| 2023                                     |  | DIST   |      | COUNTY   |     |      | SHEET NO. |
|  |  | TYL    |      | SMITH, E | tc  |      | 84        |

| ☐ This project DOT No.: $\frac{74}{1000}$   | ect is adjacent or parallel work, not within RR ROW:<br>12519N  |
|---|---|
|   | Pe: HIGHWAY UNDERPASS (RR OVER)   |
|   | Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]  |
|   | Owning Track at Crossing: [UP]  |
| RR MP: 000  |   |
| RR Subdivisi  |   |
| City: ATHEN   |   |
| County: HEN   |   |
|   | Crossing: 0198-01-033   |
| Latitude: 32  |   |
| Longitude: -  |   |
| • -   |   |
| Scope of wo   | rk, including any TCP, to be performed by State Contractor:   |
|   |   |
|   |   |
| N/A   | rk to be performed by Railroad Company:   |
| N/A   | GING & INSPECTION  of Railroad Flagging Expected: 0   |
| N/A  II. FLAG  No. of Days  | GING & INSPECTION   |
| N/A  II. FLAG  No. of Days  | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:   |
| N/A  II. FLAG  No. of Days  On this proje   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:   |
| N/A  II. FLAG  No. of Days  On this proje  □ Expected  ☑ Not Expect   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expec Flagging ser □ Railroad 0   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:   |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Expert  Railroad (  needed o   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expect □ Railroad ( needed o ☑ Outside F  Contractor n requires a 3   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Expected  Railroad of needed of old outside F  Contractor in requires a 3 to their own by Contractor   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.   |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Expected  Railroad of needed of old outside F  Contractor in requires a 3 to their own by Contractor   | GING & INSPECTION  of Railroad Flagging Expected:  ctct, night or weekend flagging is:  ctcd  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  carty: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Expected  Railroad (  needed o  Outside F  Contractor n requires a 3 to their own by Contract  Contact Info  | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.   |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Expected  Railroad (  needed o  Outside F  Contractor n requires a 3 to their own by Contract  Contact Info  | GING & INSPECTION  of Railroad Flagging Expected:  oct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Expected  Railroad (  needed o  Outside F  Contractor n requires a 3 to their own by Contract  Contact Info  | GING & INSPECTION  of Railroad Flagging Expected:  oct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad  0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expected □ Railroad of needed of needed of the requires a 3 to their own by Contractor ☑ UPRR   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  |
| N/A  II. FLAG  No. of Days On this proje Expected Not Expected Not Expected Oneeded of Outside F  Contractor in requires a 3 to their own by Contractor Untractor Untractor Untractor Untractor Untractor Untractor Untractor | GING & INSPECTION  of Railroad Flagging Expected:   cet, night or weekend flagging is:  ceted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  carty: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad Coday notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com |

| λY  |  |
|-----|--|
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| _   |  |
|     |  |
|     |  |
|     |  |
|     |  |
| e   |  |
|     |  |
|     |  |
| lue |  |
| id  |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |

|      | t Required  |
|------|---|
| □ Re | quired. Contact Information for Construction Inspection:  |
|      |   |
|      |   |
|      |   |
|      |   |
|      |   |
| III. | CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD         |
| III. | CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD         |
|      | CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD quired. |

Contractor must incorporate railroad construction inspection into anticipated construction schedule.

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

#### IV. RAILROAD INSURANCE REQUIREMENTS

Railroad Point of Contact:

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

| Escalated Limits             |                                   |  |  |  |
|------------------------------|-----------------------------------|--|--|--|
| Type of Insurance            | Amount of Coverage (Minimum)      |  |  |  |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |  |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |  |
| Business Automobile          | \$2,000,000                       |  |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |  |

| Railroad Protective Liability Limits  |                            |  |
|---|----------------------------|--|
| ☐ Not Required  |                            |  |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                               | \$5,000,000 / \$10,000,000 |  |
| □ Other:  |                            |  |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

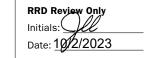
Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| Call: [L | e of Railroad Emergency               |  |
|----------|---------------------------------------|--|
|          |                                       |  |
| Railroa  | d Emergency Line at: 800 - 848 - 8715 |  |
|          | n: DOT <u>742519N</u>                 |  |
| RR Mile  | epost: 0001.790                       |  |
|          | sion: ATHENS                          |  |





Rail Division

### RAILROAD SCOPE OF WORK

| FILE: rr-scop | e-of-work.pdf | DN: Tx | DOT  | CK:      | DW: | CK:        |
|---------------|---------------|--------|------|----------|-----|------------|
| © TxDOT       | June 2014     | CONT   | SECT | JOB      |     | HIGHWAY    |
| 0/0000        | REVISIONS     | 0095   | 08   | 021, Etc | l   | JS 80, Etc |
| 6/2023        |               | DIST   |      | COUNTY   |     | SHEET NO.  |
|               |               | TYL    |      | SMITH, E | tc  | 85         |

|  | ect is adjacent or parallel work, not within RR ROW:  |
|--|---|
| DOT No.: 74  | e: HIGHWAY AT GRADE (RR AT GRADE)   |
|  | POPERATING TRACK AT CROSSING: UNION PACIFIC RAILROAD COMPANY [UP]   |
|  | Owning Track at Crossing: [UP]  |
| RR MP: 000   |   |
| RR Subdivisi   |   |
| City: ATHENS   |   |
| County: HEN  |   |
|  | crossing: 2196-01-015   |
| Latitude: 32   |   |
| Longitude:   |   |
|  |   |
| Scope of Wo  | rk, including any TCP, to be performed by State Contractor:   |
| APPLY SURF   | FACE TREATMENT AND STRIPING TO EXISTING ROADWAY.  |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
|  |   |
| Scope of Wo  | rk to be performed by Railroad Company:   |
|  |   |
| NI /A  |   |
| N/A  |   |
| N/A  |   |
| N/A  |   |
| ,  | GING & INSPECTION   |
| II. FLAG   |   |
| II. FLAG   | of Railroad Flagging Expected: 2  |
| II. FLAG  No. of Days of On this proje   |   |
| II. FLAG  No. of Days of On this proje  Expected   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| II. FLAG  No. of Days of On this proje   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| II. FLAG  No. of Days of On this proje  □ Expected ☑ Not Expec   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| II. FLAG  No. of Days of On this proje  □ Expected ☑ Not Expected Flagging serv  | of Railroad Flagging Expected: 2 cct, night or weekend flagging is: cted vices will be provided by:   |
| II. FLAG  No. of Days of On this proje  □ Expected ☑ Not Expect □ Railroad (   | of Railroad Flagging Expected: 2 ct, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be   |
| II. FLAG  No. of Days of On this project Expected IV Not Expect Expected IV Railroad On the Connected I | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  |
| II. FLAG  No. of Days of On this project Expected IV Not Expect Expected IV Railroad On the Connected I | of Railroad Flagging Expected: 2 ct, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be   |
| II. FLAG  No. of Days of On this projet  □ Expected ☑ Not Expect □ Railroad ( needed o ☑ Outside P   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging. earty: Contractor will pay flagging invoices to be reimbursed by TxDOT   |
| II. FLAG  No. of Days of On this proje  □ Expected ☑ Not Expect □ Railroad ( needed o ☑ Outside P  Contractor m requires a 30  | of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  earty: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du   |
| II. FLAG  No. of Days of On this proje  □ Expected ☑ Not Expect □ Railroad ( needed o ☑ Outside P  Contractor m requires a 30 to their own   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: ected vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging. earty: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| II. FLAG  No. of Days of On this proje  □ Expected ☑ Not Expect □ Railroad ( needed o ☑ Outside P  Contractor m requires a 30  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: ected vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging. earty: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| II. FLAG  No. of Days of On this project of Contractor many requires a 30 to their own by Contractor of Contractor | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: ected vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging. earty: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| II. FLAG  No. of Days of On this project of Contractor many requires a 30 to their own by Contractor of Contractor | of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Farty: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad D-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| II. FLAG  No. of Days of On this project of the pr  | of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  varty: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| II. FLAG  No. of Days of On this project of the pr  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging. earty: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or. rmation for Flagging: UP.info@railpros.com   |
| II. FLAG  No. of Days of On this project of the pr  | of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  carty: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad D-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid in.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging   |
| II. FLAG  No. of Days of On this project of the pr  | of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad D-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  |
| II. FLAG  No. of Days of On this project of Expected    Not Expected    Railroad Oneeded of Outside P  Contractor of the requires a 30 to their own by Contract Ocontact Information    UPRR   | of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  |
| II. FLAG  No. of Days of On this proje  □ Expected  ☑ Not Expected  ☑ Not Expected  □ Railroad Oneeded of Outside P  Contractor many requires a 30 to their own by Contractor  ☑ UPRR  | of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  ceted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  |
| II. FLAG  No. of Days of On this project of Expected    Not Expected    Railroad Oneeded of Outside P  Contractor of the requires a 30 to their own by Contract Ocontact Information    UPRR   | of Railroad Flagging Expected: 2  act, night or weekend flagging is:  acted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  anust incorporate flaggers into anticipated construction schedule. The Railroad D-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid in.  Trimation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging                                       |
| II. FLAG  No. of Days of On this project of Expected    Not Expected    Railroad Oneeded of Outside P  Contractor of the requires a 30 to their own by Contract Ocontact Information    UPRR   | of Railroad Flagging Expected: 2  act, night or weekend flagging is:  acted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  anust incorporate flaggers into anticipated construction schedule. The Railroad D-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid in.  Trimation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services |
| II. FLAG  No. of Days of On this project of Expected    Not Expected    Railroad Oneeded of Outside P  Contractor of the requires a 30 to their own by Contract Ocontact Information    UPRR   | of Railroad Flagging Expected: 2  act, night or weekend flagging is:  acted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  anust incorporate flaggers into anticipated construction schedule. The Railroad D-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid in.  Trimation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging                                       |

| AY       |  |  |
|----------|--|--|
|          |  |  |
|          |  |  |
| _        |  |  |
|          |  |  |
| <u> </u> |  |  |
|          |  |  |
| _        |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
| be       |  |  |
|          |  |  |
| due      |  |  |
| aid      |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |

| Contractor must incorporate railroad construct  ✓ Not Required  □ Required. Contact Information for Constru | ction inspection into anticipated construction schedu  |
|---|--|
|   |  |
|   |  |
| III. CONSTRUCTION WORK TO BE PE   | ERFORMED BY THE RAILROAD   |
| ☐ Required.   |  |
| ✓ Not Required  |  |
| Railroad Point of Contact:  |  |
|   | rformed by the Railroad Company. TxDOT must issue<br>ad Company prior to the work being performed.   |
| IV. RAILROAD INSURANCE REQUIRE  | EMENTS   |
| The Contractor shall confirm the insurance reare subject to change without notice.                          | equirements with the Railroad as the insurance limi  |
| on behalf of the Railroad. Separate insurance   | cates of insurance must be issued by the contractor<br>re policies and certificates are required when more<br>the same right of way, or when several Railroad<br>r own separate right of ways. |
| No direct compensation will be made to the shown below or any deductibles. These cost                       | Contractor for providing the insurance coverages s are incidental to the various bid items.  |
| Esc   | alated Limits  |
| Type of Insurance   | Amount of Coverage (Minimum)   |
| Workers Compensation  | \$500,000 / \$500,000 / \$500,000  |
| Commercial General Liability  | \$2,000,000 / \$4,000,000  |
| Business Automobile   | \$2,000,000  |
|   |  |
| Railroad Pro  | tective Liability Limits   |

| Railroad Protective Liability Limits  |                            |  |  |  |
|---|----------------------------|--|--|--|
| ☐ Not Required  |                            |  |  |  |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |  |  |  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                               | \$5,000,000 / \$10,000,000 |  |  |  |
| □ Other:  |                            |  |  |  |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| , ,  |
|--|
| ☐ Not Required   |
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

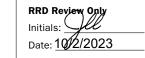
Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| In Case of Railroad Emergency     |            |
|-----------------------------------|------------|
| Call: [UP]                        |            |
| Railroad Emergency Line at: 800 - | 848 - 8715 |
| Location: DOT 742521P             |            |
| RR Milepost: 0006.015             |            |
| Subdivision: ATHENS               |            |
|                                   |            |





Rail Division

### RAILROAD SCOPE OF WORK

| FILE: rr-scop       | e-of-work.pdf | DN: Tx | DOT  | CK: D    | w: | ск:       |
|---------------------|---------------|--------|------|----------|----|-----------|
| © TxDOT             | June 2014     | CONT   | SECT | JOB      |    | HIGHWAY   |
| REVISIONS<br>6/2023 |               | 0095   | 08   | 021, Etc | U  | S 80, Etc |
|                     |               | DIST   |      | COUNTY   |    | SHEET NO. |
|                     |               | TYI    |      | SMITH Ft | c  | 86        |

| ☐ This project DOT No.: $\frac{42}{100}$  | ect is adjacent or parallel work, not within RR ROW:   |
|---|--|
|   | e: HIGHWAY AT GRADE (RR AT GRADE)  |
|   | Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]   |
|   | Owning Track at Crossing: [UP]   |
| RR MP: 001  |  |
| ·   | on: PALESTINE  |
| City: KILGOF  |  |
| County: RUS   |  |
|   | Crossing: 1933-02-016  |
| Latitude: 32  |  |
|   | 94.9151117   |
| Scope of Wo   | rk, including any TCP, to be performed by State Contractor:  |
| Scope or wo   | Trk, including any for, to be performed by State Contractor.   |
|   |  |
| Scope of Wo   | rk to be performed by Railroad Company:  |
| Scope of We   |  |
| N/A   |  |
|   |  |
|   |  |
| N/A   | GING & INSPECTION  |
| N/A   | GING & INSPECTION  |
| N/A  II. FLAG  No. of Days  | GING & INSPECTION of Railroad Flagging Expected: 2   |
| II. FLAG  No. of Days  On this proje  | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  |
| N/A  II. FLAG  No. of Days  On this proje  □ Expected   | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proje  | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  |
| N/A  II. FLAG  No. of Days  On this proje  □ Expected  ☑ Not Expec  | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Exper □ Railroad (  | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be  |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Exper Flagging ser □ Railroad of needed of  | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Exper Flagging ser □ Railroad of needed of  | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be  |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Exper □ Railroad of needed of ☑ Outside F  Contractor in requires a 3   | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expe Flagging ser □ Railroad of needed of ☑ Outside F  Contractor of requires a 3 to their own by Contractor                      | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Experted  Not Experted  Outside F  Contractor n requires a 3 to their own by Contract  Contact Info                                | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expe Flagging ser □ Railroad of needed of ☑ Outside F  Contractor of requires a 3 to their own by Contractor                      | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Experted  Not Experted  Outside F  Contractor n requires a 3 to their own by Contract  Contact Info                                | GING & INSPECTION  of Railroad Flagging Expected: 2  cct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Exper □ Railroad on needed of needed of their own by Contractor ☑ UPRR  | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Experted  Not Experted  Outside F  Contractor n  requires a 3  to their own  by Contract  Contact Info                             | GING & INSPECTION  of Railroad Flagging Expected: 2  cct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Exper □ Railroad on needed of needed of their own by Contractor ☑ UPRR  | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT inust incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com   |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Expe  Flagging ser  Railroad oneeded of  Outside F  Contractor norequires a 3 to their own by Contract  Contact Info  UPRR  ■ BNSF | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging |
| N/A  II. FLAG  No. of Days  On this proje  Expected  Not Expe  Flagging ser  Railroad oneeded of  Outside F  Contractor norequires a 3 to their own by Contract  Contact Info  UPRR  ■ BNSF | GING & INSPECTION  of Railroad Flagging Expected: 2  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT inust incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com   |

| AY       |  |  |
|----------|--|--|
|          |  |  |
|          |  |  |
| _        |  |  |
|          |  |  |
| <u> </u> |  |  |
|          |  |  |
| _        |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
| be       |  |  |
|          |  |  |
| due      |  |  |
| aid      |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |
|          |  |  |

| Business Automobile   | \$2,000,000  |
|---|--|
| Commercial General Liability  | \$2,000,000 / \$4,000,000  |
| Workers Compensation  | \$500,000 / \$500,000 / \$500,000  |
| Type of Insurance   | Amount of Coverage (Minimum)   |
| Escalat   | ted Limits   |
| o direct compensation will be made to the Con<br>hown below or any deductibles. These costs ar    | -  |
|   | olicies and certificates are required when more<br>same right of way, or when several Railroad   |
| re subject to change without notice.  | irements with the Railroad as the insurance lim es of insurance must be issued by the contractor |
| V. RAILROAD INSURANCE REQUIREME   | ENTS   |
| oordinate with TxDOT for any work to be perform<br>work order for any work done by the Railroad C | med by the Railroad Company. TxDOT must issu<br>Company prior to the work being performed.       |
| ailroad Point of Contact:   |  |
| Required. Not Required  |  |
|   | ONNED BY THE NAILNOAD  |
| II. CONSTRUCTION WORK TO BE PERF  | ODMED BY THE DAIL DOAD   |
|   |  |
| Not Required Required Required. Contact Information for Construction                              | on Inspection:   |
| ·   | Thispection into unitorpated concludetion coned  |
| ontractor must incorporate railroad construction  | n inspection into anticipated construction schedu  |

☑ Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and

☐ Bridge Structure Projects. Includes new

construction or replacement of overpass/

culvert structures

underpass structures

☐ Other:

\$2,000,000 / \$6,000,000

\$5,000,000 / \$10,000,000

| V.          | CONTRACTOR'S RIGHT OF ENTRY (CROE)   |
|-------------|--|
| □ 1         | Not Required   |
| <b></b> ✓ F | Required: UPRR Maintenance Consent Letter. TxDOT to assist   |
| □ F         | Required: TxDOT to assist in obtaining the UPRR CROE   |
| □ F         | Required: Contractor to obtain   |
|             | □ BNSF:  |
|             | https://bnsf.railpermitting.com  |
|             | □ CPKCR  |
|             | https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
|             | ☐ Other Railroads:   |
| http        | riew previously approved CROE templates agreed upon between the State and Railroad, see: os://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-eements.html  |
| App         | roved CROE templates are not to be modified by the Contractor.   |
| Mai         | tractor shall not operate within Railroad Right of Way without an executed Construction & ntenance Agreement between the State and the Railroad and an executed CROE between the tractor and the Railroad if required on project.                  |
| VI.         | RAILROAD COORDINATION MEETING  |
|             | ailroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications<br>Construction and Maintenance of Highways, Streets and Bridges Manual for more details.  |
| VII.        | RAILROAD SAFETY ORIENTATION  |
| prio        | complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration or to working on the Railroad's property. This course is required to be completed annually by tractor and Subcontractor personnel working on site. |
|             | RR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads.  er to each Railroad's specific contractor right of entry for training information.  |

### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY

 $\begin{tabular}{ll} \hline REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements. \\ \hline \end{tabular}$ 

#### IX. EMERGENCY NOTIFICATION

| In Case of Railroad Emergency   |             |
|---------------------------------|-------------|
| Call: [UP]                      | 0.40, 0.745 |
| Railroad Emergency Line at: 800 | 848 - 8715  |
| Location: DOT 426659W           |             |
| RR Milepost: 0014.840           |             |
| Subdivision: PALESTINE          |             |





Rail Division

### **RAILROAD SCOPE OF WORK**

| FILE: rr-scop | e-of-work.pdf | DN: Tx | DOT  | CK:      | DW: | CK:        |
|---------------|---------------|--------|------|----------|-----|------------|
| © TxDOT       | June 2014     | CONT   | SECT | JOB      |     | HIGHWAY    |
| 0/0000        | REVISIONS     | 0095   | 08   | 021, Etc | U   | IS 80, Etc |
| 6/2023        |               | DIST   |      | COUNTY   |     | SHEET NO.  |
|               |               | TYI    |      | SMITH Ft | ·c  | 87         |

| _  |  |
|--|--|
| DOT No.: 42  |  |
|  | e: HIGHWAY OVERPASS (RR UNDER)   |
| RR Company   | Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]   |
| RR Company   | Owning Track at Crossing: [UP]   |
| RR MP: 002   | 7.390  |
|  | ion: PALESTINE   |
| City: ARP  |  |
| County: SMI  |  |
|  | Crossing: 0245-06-090  |
| Latitude: 32   |  |
| Longitude: _   | 95.0436710   |
| Scope of Wo  | ork, including any TCP, to be performed by State Contractor:   |
| APPLY SURI   | FACE TREATMENT AND STRIPING TO EXISTING ROADWAY  |
| Scope of Wo  | ork to be performed by Railroad Company:   |
| N/A  |  |
| II. FLAG   | GING & INSPECTION  |
| No. of Days  | of Railroad Flagging Expected: 0   |
| On this proje  | ect, night or weekend flagging is:   |
| ☐ Expected   |  |
| ✓ Not Exped  | cted   |
| Flagging ser   | vices will be provided by:   |
|  | One and A Todat will be floreing in circa. Floreing Agreement with united will be  |
|  | Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.   |
|  |  |
| Outside P Contractor m requires a 30   | r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| Outside P Contractor m requires a 30 to their own by Contractor                | r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.   |
| Outside P Contractor m requires a 30 to their own by Contractor                | r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| Outside P Contractor m requires a 30 to their own by Contracto Contact Info    | r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  rmation for Flagging:  |
| Outside P Contractor m requires a 30 to their own by Contracto Contact Info    | r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  rmation for Flagging:  UP.info@railpros.com  |
| Outside P Contractor m requires a 30 to their own by Contracto Contact Info    | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net   |
| ✓ Outside P Contractor m requires a 3t to their own by Contractor Contact Info | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com   |
| Contractor m requires a 30 to their own by Contractor Contact Info             | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com   |
| Contractor m requires a 30 to their own by Contractor Contact Info             | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services |

| Y  |  |
|----|--|
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
| _  |  |
|    |  |
|    |  |
| _  |  |
|    |  |
|    |  |
|    |  |
|    |  |
| _  |  |
|    |  |
|    |  |
|    |  |
| _  |  |
|    |  |
| _  |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
| е  |  |
| •  |  |
|    |  |
|    |  |
|    |  |
|    |  |
| ue |  |
| d  |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |

| Ν    | ot Required   |
|------|---|
| □ R  | equired. Contact Information for Construction Inspection: |
|      |   |
|      |   |
|      |   |
|      |   |
| III. | CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD         |
| •••• | CONSTRUCTION WORK TO BE FERI ORIGINED BY THE RAILROAD     |
| □R   | equired.  |
| _    | ot Required   |
| ✓N   |   |

Contractor must incorporate railroad construction inspection into anticipated construction schedule.

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

#### IV. RAILROAD INSURANCE REQUIREMENTS

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

| Escalat                      | ed Limits                         |
|------------------------------|-----------------------------------|
| Type of Insurance            | Amount of Coverage (Minimum)      |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |
| Business Automobile          | \$2,000,000                       |
| Business Automobile          | \$2,000,000                       |

| Railroad Protective Liability L   | imits                      |
|---|----------------------------|
| ☐ Not Required  |                            |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                               | \$5,000,000 / \$10,000,000 |
| □ Other:  |                            |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| □ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| Call: [UP] |                                     |  |
|------------|-------------------------------------|--|
|            |                                     |  |
| Railroad E | Emergency Line at: 800 - 848 - 8715 |  |
|            | DOT 426642T                         |  |
| RR Milepo  | ost: 0027.390                       |  |
| Subdivici  | on: PALESTINE                       |  |





Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

| E: rr-scop | e-of-work.pdf | DN: TX | DOT  | CK:      | DW: |      | ск:       |
|------------|---------------|--------|------|----------|-----|------|-----------|
| TxDOT      | June 2014     | CONT   | SECT | JOB      |     | н    | GHWAY     |
| 0000       | REVISIONS     | 0095   | 08   | 021, Etc |     | US 8 | 30, Etc   |
| 2023       |               | DIST   |      | COUNTY   |     |      | SHEET NO. |
|            |               | TVI    |      | SMITH F  | tc  |      | 99        |

| DOT No.: 79   | ect is adjacent or parallel work, not within RR ROW:  |
|---|---|
|   | De: HIGHWAY AT GRADE (RR AT GRADE)  |
|   | y Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]  |
|   | y Owning Track at Crossing: [UP]  |
| RR MP: 018  |   |
|   | ion: MINEOLA  |
| City: HAWK  |   |
| County: WC  |   |
|   | Crossing: 0492-03-041   |
| Latitude: 3   |   |
|   | 95.2054311  |
| Scope of Wo   | ork, including any TCP, to be performed by State Contractor:  |
| APPLY SUR   | FACE TREATMENT AND STRIPING TO EXISTING ROADWAY.  |
| Scope of We   | ork to be performed by Railroad Company:  |
| N/A   | GING & INSPECTION   |
| II. FLAG  | of Railroad Flagging Expected: 2<br>ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  Flagging ser   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  Flagging set  □ Railroad  needed of  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by:   |
| II. FLAG  No. of Days  On this projum  Expected  Not Expe  Flagging sel  Railroad needed of  Outside I  Contractor requires a 3   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad incompany to provide flaggers, any flagging charges will be paid   |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contractor             | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  cted rvices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad invoices if their flaggers are to be utilized. If Contractor falls behind schedule during ligence and is not ready for scheduled flaggers, any flagging charges will be paid or.   |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Flagging sel  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad incompany to provide flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad incompany to provide flaggers, any flagging charges will be paid or.  Typical contractor falls behind schedule during flaggers and is not ready for scheduled flaggers, any flagging charges will be paid or.  Typical contractor falls behind scheduled flaggers, any flagging charges will be paid or. |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Flagging sel  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad incompany to provide flaggers, any flagging charges will be paid for.  permation for Flagging:  |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info  UPRR         | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted  cvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad inust incorporate flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  formation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com  |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contractor                           | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad incompany notice if their flaggers are to be utilized. If Contractor falls behind schedule during negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com                 |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info  UPRR         | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad invoices of their flaggers are to be utilized. If Contractor falls behind schedule during negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging   |

| ☑ Not Required   |   |
|--|---|
| ☐ Required. Contact Information for Construction Ir  | ispection:  |
|  |   |
|  |   |
| II. CONSTRUCTION WORK TO BE PERFORI  | WED BY THE RAILROAD   |
| ☐ Required.  |   |
| ☑ Not Required   |   |
| Railroad Point of Contact:   |   |
| Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp   |   |
| V. RAILROAD INSURANCE REQUIREMENT  | 5   |
| The Contractor shall confirm the insurance requirem  | ents with the Railroad as the insurance   |
| are subject to change without notice.  |   |
| chan one Railroad Company is operating on the sam<br>Companies are involved and operate on their own se  | •   |
| than one Railroad Company is operating on the sam<br>Companies are involved and operate on their own se<br>No direct compensation will be made to the Contract<br>shown below or any deductibles. These costs are in   | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  |
| than one Railroad Company is operating on the same Companies are involved and operate on their own so No direct compensation will be made to the Contract shown below or any deductibles. These costs are in Escalated I   | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  |
| than one Railroad Company is operating on the same Companies are involved and operate on their own set to direct compensation will be made to the Contract shown below or any deductibles. These costs are interested in the Escalated I   | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum)  |
| chan one Railroad Company is operating on the same Companies are involved and operate on their own set to direct compensation will be made to the Contract shown below or any deductibles. These costs are in Escalated I  Type of Insurance  Workers Compensation   | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000   |
| chan one Railroad Company is operating on the same Companies are involved and operate on their own set to direct compensation will be made to the Contract shown below or any deductibles. These costs are interest and the Contract of the Co | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000  |
| chan one Railroad Company is operating on the same Companies are involved and operate on their own set to direct compensation will be made to the Contract shown below or any deductibles. These costs are in Escalated I  Type of Insurance  Workers Compensation   | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000   |
| chan one Railroad Company is operating on the same Companies are involved and operate on their own set to direct compensation will be made to the Contract shown below or any deductibles. These costs are interest and the Contract of the Co | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000   |
| chan one Railroad Company is operating on the same Companies are involved and operate on their own set to direct compensation will be made to the Contract shown below or any deductibles. These costs are interest and the Escalated I Type of Insurance  Workers Compensation  Commercial General Liability  Business Automobile   | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000   |
| chan one Railroad Company is operating on the same Companies are involved and operate on their own so the Companies are involved and operate on their own so the Companies are involved and operate on their own so the Companies are involved by the  | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000   |
| chan one Railroad Company is operating on the same Companies are involved and operate on their own sets to direct compensation will be made to the Contract shown below or any deductibles. These costs are interested in the Escalated II  Type of Insurance  Workers Compensation  Commercial General Liability  Business Automobile  Railroad Protective  Not Required  Nor - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and   | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum) \$500,000 / \$500,000 / \$500,000 \$2,000,000 / \$4,000,000  |
| chan one Railroad Company is operating on the same Companies are involved and operate on their own sets of the Companies are involved and operate on their own sets of the Contract shown below or any deductibles. These costs are involved and provided in the Contract shown below or any deductibles. These costs are involved in the Contract shown below or any deductibles. These costs are involved in the Contract of | e right of way, or when several Railroad eparate right of ways.  tor for providing the insurance coverage cidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000  Liability Limits  \$2,000,000 / \$6,000,000 |

| CONTRACTOR'S | RIGHT OF | ENTRY | (CROE) |
|--------------|----------|-------|--------|
|              |          |       |        |

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist   |
| $\square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                               |
| ☐ BNSF:  |
| □ CPKCR  |
| https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12         |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### **VIII. SUBCONTRACTORS**

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| In Case of I | Railroad Emergency                 |
|--------------|------------------------------------|
| Call: [UP]   |                                    |
| Railroad Em  | nergency Line at: 800 - 848 - 8715 |
| Location: D  | OT 794688U                         |
| RR Milepos   | t: <u>0118.600</u>                 |
| Subdivision  | : MINEOLA                          |
|              |                                    |





Division

#### **RAILROAD SCOPE OF WORK** PROJECT SPECIFIC DETAILS

| FILE: rr-scop | e-of-work.pdf | DN: Tx | DOT  | CK: DW:  |      | ск:      |
|---------------|---------------|--------|------|----------|------|----------|
| © TxDOT       | June 2014     | CONT   | SECT | JOB      | HIGH | IWAY     |
| 0/0000        | REVISIONS     | 0095   | 08   | 021, Etc | US 8 | O, Etc   |
| 6/2023        |               | DIST   |      | COUNTY   | s    | HEET NO. |
|               |               | T)/I   |      | CMITH FA |      | 00       |

| ☐ This project  | ect is adjacent or parallel work, not within RR ROW:  |
|---|---|
|   | De: HIGHWAY OVERPASS (RR UNDER)   |
|   | Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]  |
|   | / Owning Track at Crossing: [UP]  |
| RR MP: 007  |   |
| · · · · · · · · · · · · · · · · · · ·   | on: PALESTINE   |
| City: PALEST  |   |
| County: AND   | DERSON  |
| CSJ at this C   | Crossing: 0520-09   |
| Latitude: 31  |   |
| Longitude: _  | 95.6060692  |
| Scope of Wo   | ork, including any TCP, to be performed by State Contractor:  |
| STRIPING E  | XISTING ROADWAY.  |
| Scope of Wo   | rk to be performed by Railroad Company:   |
| N/A   | The de performed by Hameda company.   |
| N/A   | GING & INSPECTION   |
| N/A   | GING & INSPECTION   |
| N/A  II. FLAG  No. of Days  | GING & INSPECTION  of Railroad Flagging Expected: 0   |
| N/A  II. FLAG  No. of Days On this proje  | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:   |
| N/A  II. FLAG  No. of Days On this proje  Expected  | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expec   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expec   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:   |
| N/A  II. FLAG  No. of Days On this proje Expected Not Expect Flagging ser Railroad (  | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be   |
| N/A  II. FLAG  No. of Days On this proje □ Expected □ Not Expected □ Railroad ( needed o  | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expect □ Railroad ( needed o ☑ Outside F  Contractor n requires a 3   | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| N/A  II. FLAG  No. of Days On this proje Expected Not Expected Not Expected Railroad Oneeded of Outside F Contractor in requires a 3 to their own by Contractor                   | GING & INSPECTION  of Railroad Flagging Expected:  ct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expect □ Railroad Oneeded o ☑ Outside F  Contractor in requires a 3 to their own by Contract Contact Info               | GING & INSPECTION  of Railroad Flagging Expected:  ctct, night or weekend flagging is:  ctcd  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  carty: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| N/A  II. FLAG  No. of Days On this proje Expected Not Expected Not Expected Railroad Oneeded of Outside F Contractor in requires a 3 to their own by Contractor                   | GING & INSPECTION  of Railroad Flagging Expected:  oct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expect □ Railroad Oneeded o ☑ Outside F  Contractor in requires a 3 to their own by Contract Contact Info               | GING & INSPECTION  of Railroad Flagging Expected:  oct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net   |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expect □ Railroad Oneeded o ☑ Outside F  Contractor in requires a 3 to their own by Contract Contact Info               | GING & INSPECTION  of Railroad Flagging Expected:  oct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  varty: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  |
| N/A  II. FLAG  No. of Days On this proje □ Expected ☑ Not Expected □ Railroad Oneeded of □ Outside F  Contractor in requires a 3 to their own by Contractor ☑ Contact Info ☑ UPRR | GING & INSPECTION  of Railroad Flagging Expected:  ctct, night or weekend flagging is:  ctcd  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  carty: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad conduction of their flaggers are to be utilized. If Contractor falls behind schedule during ligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railpross.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com |
| N/A  II. FLAG  No. of Days On this proje Expected Not Expected Not Expected Not Expected Outside F Contractor in requires a 3 to their own by Contractor UPRR  BNSF               | GING & INSPECTION  of Railroad Flagging Expected: 0  ect, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging                      |

| AY  |  |
|-----|--|
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| be  |  |
|     |  |
|     |  |
| due |  |
| aid |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |

| Contractor must incorporate railroad construction in  | spection into anticipated construction schedule.   |  |  |
|---|--|--|--|
| ☑ Not Required  |  |  |  |
| ☐ Required. Contact Information for Construction Inspection:  |  |  |  |
|   |  |  |  |
|   |  |  |  |
|   |  |  |  |
| III. CONSTRUCTION WORK TO BE PERFOR   | MED BY THE RAILROAD  |  |  |
| ☐ Required.   |  |  |  |
| ☑ Not Required  |  |  |  |
| Railroad Point of Contact:  |  |  |  |
| Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Com   |  |  |  |
| IV. RAILROAD INSURANCE REQUIREMENT  | rs   |  |  |
| The Contractor shall confirm the insurance required are subject to change without notice.   | nents with the Railroad as the insurance limits  |  |  |
| Insurance policies and corresponding certificates o   | f insurance must be issued by the contractor   |  |  |
| on behalf of the Railroad. Separate insurance polici<br>than one Railroad Company is operating on the sam<br>Companies are involved and operate on their own s<br>No direct compensation will be made to the Contract   | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages   |  |  |
| on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own s  No direct compensation will be made to the Contract shown below or any deductibles. These costs are in  | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages incidental to the various bid items.  |  |  |
| on behalf of the Railroad. Separate insurance polici<br>than one Railroad Company is operating on the sam<br>Companies are involved and operate on their own s  | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages incidental to the various bid items.  |  |  |
| on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own s  No direct compensation will be made to the Contract shown below or any deductibles. These costs are in  | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages incidental to the various bid items.  |  |  |
| on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own so No direct compensation will be made to the Contract shown below or any deductibles. These costs are in Escalated  | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages acidental to the various bid items.   |  |  |
| on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own s  No direct compensation will be made to the Contrac shown below or any deductibles. These costs are in  Escalated  Type of Insurance   | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages incidental to the various bid items.  Limits  Amount of Coverage (Minimum)  |  |  |
| on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own s No direct compensation will be made to the Contrac shown below or any deductibles. These costs are in  Escalated  Type of Insurance Workers Compensation   | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages neidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  |  |  |
| on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own s No direct compensation will be made to the Contrac shown below or any deductibles. These costs are in  Escalated  Type of Insurance Workers Compensation Commercial General Liability  | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages ecidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000  \$2,000,000  |  |  |
| on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own so the No direct compensation will be made to the Contract shown below or any deductibles. These costs are in the Escalated Type of Insurance  Workers Compensation  Commercial General Liability  Business Automobile  Railroad Protective  | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages ecidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000  \$2,000,000  |  |  |
| on behalf of the Railroad. Separate insurance polici than one Railroad Company is operating on the sam Companies are involved and operate on their own s No direct compensation will be made to the Contrac shown below or any deductibles. These costs are in  Escalated  Type of Insurance Workers Compensation Commercial General Liability Business Automobile  | ne right of way, or when several Railroad eparate right of ways.  ctor for providing the insurance coverages ecidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000  \$2,000,000  |  |  |
| on behalf of the Railroad. Separate insurance policithan one Railroad Company is operating on the sam Companies are involved and operate on their own some No direct compensation will be made to the Contract shown below or any deductibles. These costs are in the Escalated  Type of Insurance Workers Compensation Commercial General Liability Business Automobile  Railroad Protective  Not Required Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and | the right of way, or when several Railroad eparate right of ways.  Stor for providing the insurance coverages acidental to the various bid items.  Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  \$2,000,000 / \$4,000,000  \$2,000,000 |  |  |

#### **CONTRACTOR'S RIGHT OF ENTRY (CROE)**

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

o view previously approved CROE templates agreed upon between the State and Railroad, see: ttps://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entrygreements.html

pproved CROE templates are not to be modified by the Contractor.

ontractor shall not operate within Railroad Right of Way without an executed Construction & laintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### . RAILROAD COORDINATION MEETING

Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications or Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### II. RAILROAD SAFETY ORIENTATION

. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

PRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

(now and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### III. SUBCONTRACTORS

ontractor shall not subcontract work without written consent of TxDOT. Subcontractors are ubject to the same insurance requirements as the Prime Contractor.

#### . EMERGENCY NOTIFICATION

| In Case of Railroad Emergency  Call: [UP]                           |
|---|
| Railroad Emergency Line at: 800 - 848 - 8715  Location: DOT 432198D |
| RR Milepost: 0079.860 Subdivision: PALESTINE                        |
|   |

Date: 10/2/2023



Division

### **RAILROAD SCOPE OF WORK**

| FILE: rr-scop  | e-of-work.pdf | DN: Tx                 | DOT  | ск:    | DW:        | ск:       |
|----------------|---------------|------------------------|------|--------|------------|-----------|
| © TxDOT        | June 2014     | CONT                   | SECT | JOB    |            | HIGHWAY   |
| 0/0000         | REVISIONS     | sions 0095 08 021, Etc |      | ; l    | JS 80, Etc |           |
| 6/2023         |               | DIST                   |      | COUNTY |            | SHEET NO. |
| TYL SMITH, Etc |               | tc                     | 90   |        |            |           |

| UNDE  | RPASS, PEDESTRIAN, OR CLOSED/ABANDONED)  |
|---|--|
| ☐ This proje  | ect is adjacent or parallel work, not within RR ROW:<br>33310X   |
| Crossing Typ  | e: AT-GRADE  |
| RR Company  | Operating Track at Crossing: TEXAS & EASTERN RAILROAD, LLC. (TESR)   |
|   | Owning Track at Crossing: TESR   |
| RR MP: 002  |  |
| RR Subdivisi  | on: NECHES   |
| City: PALEST  | TINE   |
| County: AND   | DERSON   |
| CSJ at this C   | Crossing: 0520-09  |
| Latitude: 31  |  |
|   | 95.6056343   |
| Scope of Wo   | rk, including any TCP, to be performed by State Contractor:  |
| STRIPING E  | XISTING ROADWAY  |
| Scope of Wo   | ork to be performed by Railroad Company:   |
| .,,,,   |  |
| II. FLAG  | GING & INSPECTION  |
| No. of Days   | of Railroad Flagging Expected: 2   |
|   | ect, night or weekend flagging is:   |
| ☑ Expected  |  |
| □ Not Expe  |  |
| □ Not Expe  | oleu   |
| Flagging ser  | vices will be provided by:   |
|   |  |
|   | Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.   |
| ✓ Outside F   |  |
| Contractor n  | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| Contractor n<br>requires a 3<br>to their own<br>by Contractor                 | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| Contractor n<br>requires a 3<br>to their own<br>by Contracto<br>Contact Info  | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or. rmation for Flagging:   |
| Contractor n<br>requires a 3<br>to their own<br>by Contractor                 | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| Contractor n<br>requires a 3<br>to their own<br>by Contracto<br>Contact Info  | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging: UP.info@railpros.com   |
| Contractor n<br>requires a 3<br>to their own<br>by Contracto<br>Contact Info  | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net   |
| Contractor n<br>requires a 3<br>to their own<br>by Contractor<br>Contact Info | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  |
| Contractor in requires a 3 to their own by Contractor Contact Info            | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com   |
| Contractor in requires a 3 to their own by Contractor Contact Info            | r, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services |

| AY  |  |
|-----|--|
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| _   |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| е   |  |
|     |  |
|     |  |
|     |  |
| lue |  |
| id  |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| 1   |  |

| Contractor must incorporate railroad construction inspection into anticipated construction | schedule. |
|--|-----------|
| ✓ Not Required   |           |
| $\ \square$ Required. Contact Information for Construction Inspection:                     |           |
|  |           |
|  |           |
|  |           |
|  |           |
| III. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD                                     |           |
|  |           |
| ☑ Required.  |           |
| ☐ Not Required   |           |
| Railroad Point of Contact:   |           |

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

#### IV. RAILROAD INSURANCE REQUIREMENTS

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

| Escalated Limits             |                                   |  |  |
|------------------------------|-----------------------------------|--|--|
| Type of Insurance            | Amount of Coverage (Minimum)      |  |  |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |
| Business Automobile          | \$2,000,000                       |  |  |
|                              |                                   |  |  |

| Railroad Protective Liability Limits  |                            |  |  |
|---|----------------------------|--|--|
| ☐ Not Required  |                            |  |  |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |  |  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                               | \$5,000,000 / \$10,000,000 |  |  |
| □ Other:  |                            |  |  |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| $\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE       |
| ☐ Required: Contractor to obtain                                       |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12         |
| ☑ Other Railroads: TESR  |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### **VIII. SUBCONTRACTORS**

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| In Case of Railroad Emergency            |  |
|--|--|
| Call: TESR                               |  |
| Railroad Emergency Line at: 833-261-7790 |  |
| Location: DOT 869310X                    |  |
| RR Milepost: 0027.190                    |  |
| Subdivision: NECHES                      |  |
|  |  |

**RRD Review Only** 

Initials: \_\_\_\_\_\_ Date: 7/14/2023



### **RAILROAD SCOPE OF WORK**

| FILE: TT-SCOP | e-of-work.pdf | DN: TX | DOT           | CK: DW:  |   | : СК:   |           |
|---------------|---------------|--------|---------------|----------|---|---------|-----------|
| © TxDOT       | June 2014     | CONT   | SECT          | JOB      |   | HIGHWAY |           |
| 0/0000        | REVISIONS     | 0095   | 08            | 021, ETC |   | US 80,  | ETC       |
| 6/2023        |               | DIST   | COUNTY        |          |   |         | SHEET NO. |
|               |               | TYL    | SMITH, ETC 91 |          | 1 |         |           |

| ☐ This proj   | ect is adjacent or parallel work, not within RR ROW:   |
|---|--|
|   | DE: HIGHWAY OVERPASS (RR UNDER)  |
|   | y Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]   |
|   | y Owning Track at Crossing: [UP]   |
| RR MP: 00   |  |
| RR Subdivis   | ion: PALESTINE   |
| City: PALES   | TINE   |
| County: AN  | DERSON   |
|   | Crossing: <u>0520-09</u>   |
| Latitude: <u>3</u>  |  |
| Longitude:  | -95.6187561  |
| Scope of W  | ork, including any TCP, to be performed by State Contractor:   |
| STRIPING I  | EXISTING ROADWAY.  |
| Scope of W  | ork to be performed by Railroad Company:   |
| N/A   | GGING & INSPECTION   |
| II. FLAC  | GGING & INSPECTION  of Railroad Flagging Expected: 0   |
| II. FLAC  | _  |
| II. FLAC  | of Railroad Flagging Expected: 0 ect, night or weekend flagging is:  |
| II. FLAC  | of Railroad Flagging Expected: 0 ect, night or weekend flagging is:  |
| II. FLAC  No. of Days  On this proj  □ Expected  ☑ Not Expe   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is:  |
| II. FLAC  No. of Days  On this proj  Expected  Not Expe  Flagging se  Railroad  | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected   |
| II. FLAC  No. of Days  On this proj  Expected  Not Expect  Flagging se  Railroad needed   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be  |
| II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3  | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract                                 | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract                                 | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com  |
| II. FLAC  No. of Days On this proj Expected Not Expe Railroad needed of Outside  Contractor requires a 3 to their own by Contract Contact Info                      | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be by, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule durnegligence and is not ready for scheduled flaggers, any flagging charges will be paid or. ormation for Flagging:   |
| II. FLAC  No. of Days On this proj Expected Not Expe Railroad needed of Outside  Contractor requires a 3 to their own by Contract Contact Info                      | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be por, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net  |
| II. FLAC  No. of Days  On this proj  Expected  Not Expe  Railroad needed  Outside  Contractor requires a 3 to their owr by Contract  Contact Info  UPRR             | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provide crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid por.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com  |
| II. FLAC  No. of Days  On this proj  Expected  Not Expected  Not Expected  Railroad needed  Outside  Contractor requires a 3 to their own by Contract  Contact Info | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule durnegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com |

| AY        |  |
|-----------|--|
|           |  |
|           |  |
|           |  |
|           |  |
| <u> </u>  |  |
|           |  |
|           |  |
|           |  |
|           |  |
|           |  |
|           |  |
|           |  |
|           |  |
| ре        |  |
|           |  |
| due<br>id |  |
|           |  |
|           |  |
|           |  |
|           |  |
|           |  |

|                         | ·                                    |
|-------------------------|--------------------------------------|
| ✓ Not Required          |                                      |
| Required. Contact Infor | rmation for Construction Inspection: |
|                         |                                      |
|                         |                                      |
|                         |                                      |
|                         |                                      |
|                         |                                      |
|                         |                                      |
| III. CONSTRUCTION       | WORK TO BE PERFORMED BY THE RAILROAD |
| III. CONSTRUCTION       | WORK TO BE PERFORMED BY THE RAILROAD |
|                         | WORK TO BE PERFORMED BY THE RAILROAD |

#### IV. RAILROAD INSURANCE REQUIREMENTS

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

| Escalated Limits             |                                   |  |  |  |  |
|------------------------------|-----------------------------------|--|--|--|--|
| Type of Insurance            | Amount of Coverage (Minimum)      |  |  |  |  |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |  |  |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |  |  |
| Business Automobile          | \$2,000,000                       |  |  |  |  |
|                              |                                   |  |  |  |  |

| Railroad Protective Liability Limits  |                            |  |  |  |  |
|---|----------------------------|--|--|--|--|
| ☐ Not Required  |                            |  |  |  |  |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |  |  |  |  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                               | \$5,000,000 / \$10,000,000 |  |  |  |  |
| □ Other:  |                            |  |  |  |  |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### **VIII. SUBCONTRACTORS**

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| Call: [U | of Railroad Emergency                 |  |
|----------|---------------------------------------|--|
|          |                                       |  |
| Railroad | d Emergency Line at: 800 - 848 - 7267 |  |
| Location | n: DOT 432186J                        |  |
| RR Mile  | post: 0085.050                        |  |
|          | sion: PALESTINE                       |  |





Division

#### **RAILROAD SCOPE OF WORK** PROJECT SPECIFIC DETAILS

| FILE: TT-SCOP | e-of-work.pdf | DN: Tx | DOT  | ск:      | DW: |            | ск:    | _ |
|---------------|---------------|--------|------|----------|-----|------------|--------|---|
| © TxDOT       | June 2014     | CONT   | SECT | JOB      |     | н          | IGHWAY |   |
| REVISIONS     |               | 0095   | 08   | 021, Etc |     | US 80, Etc |        | _ |
| 6/2023        |               |        |      |          |     |            |        |   |

| rr-scope-of-work.pdf |           | DN: TX | DOT        | CK: DW:  |           | CK:     |        |
|----------------------|-----------|--------|------------|----------|-----------|---------|--------|
| TxDOT                | June 2014 | CONT   | SECT       | JOB      |           | HIGHWAY |        |
| 2023                 | REVISIONS | 0095   | 08         | 021, Etc | ;         | US 8    | O, Etc |
| 2023                 |           | DIST   | COUNTY SHE |          | SHEET NO. |         |        |
|                      |           | TVI    |            | SMITH F  | tc        |         | 92     |

|                | K AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY ERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)  |
|----------------|--|
| ☐ This project | ect is adjacent or parallel work, not within RR ROW:<br>2208G  |
| Crossing Typ   | e: HIGHWAY OVERPASS (RR UNDER)   |
| RR Company     | Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]   |
|                | Owning Track at Crossing: [UP]   |
| RR MP: 000     |  |
| RR Subdivisi   | on: HEARNE   |
| City: PALEST   | TINE   |
| County: AND    | DERSON   |
| CSJ at this C  | Crossing: 0520-09  |
| Latitude: 31   |  |
| Longitude:     |  |
| Scope of Wo    | rk, including any TCP, to be performed by State Contractor:  |
| STRIPING E     | XISTING ROADWAY.   |
| Scope of Wo    | ork to be performed by Railroad Company:   |
| ,              |  |
| II. FLAG       | GING & INSPECTION  |
| No. of Days    | of Railroad Flagging Expected: 0   |
| On this proje  | ect, night or weekend flagging is:   |
| ☐ Expected     |  |
| ✓ Not Expedit  | cted   |
|                |  |
| ☐ Railroad (   | vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be r, 2) Permitted crossing. Railroad company to provide flagging.   |
| Outside F      | arty: Contractor will pay flagging invoices to be reimbursed by TxDOT  |
| requires a 3   | nust incorporate flaggers into anticipated construction schedule. The Railroad<br>0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due<br>negligence and is not ready for scheduled flaggers, any flagging charges will be paid<br>or. |
| Contact Info   | rmation for Flagging   |
| ✓ UPRR         | rmation for Flagging:  UP.info@railpros.com  |
| ש טרתת         | Call Center 877-315-0513, Select #1 for flagging   |
|                | UP.request@nrssinc.net Call Center 877-984-6777  |
| □ BNSF         | BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging   |
| □ СРКСВ        | KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging   |
|                | Bottom Line On-Track Safety Services<br>bottomline076@aol.com, 903-767-7630  |
| ☐ OTHERS:      |  |
|                |  |

| ١٧  |  |
|-----|--|
| 41  |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| е   |  |
|     |  |
|     |  |
|     |  |
| due |  |
| id  |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |

|     | ot Required            | mation for Constru | uation Inchastion |              |   |
|-----|------------------------|--------------------|-------------------|--------------|---|
| J K | equired. Contact Infor | mation for Constru | iction inspection | <u> </u>     |   |
|     |                        |                    |                   |              |   |
|     |                        |                    |                   |              |   |
|     |                        |                    |                   |              |   |
|     |                        |                    |                   |              |   |
|     |                        |                    |                   |              |   |
|     |                        |                    |                   |              |   |
| II. | CONSTRUCTION           | WORK TO BE PE      | RFORMED BY        | THE RAILROAI | ) |

Contractor must incorporate railroad construction inspection into anticipated construction schedule.

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

#### IV. RAILROAD INSURANCE REQUIREMENTS

☑ Not Required

Railroad Point of Contact:

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

| Escalated Limits             |                                   |  |  |
|------------------------------|-----------------------------------|--|--|
| Type of Insurance            | Amount of Coverage (Minimum)      |  |  |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |
| Business Automobile          | \$2,000,000                       |  |  |
|                              |                                   |  |  |

| Railroad Protective Liabilit  | y Limits                   |
|---|----------------------------|
| ☐ Not Required  |                            |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and<br/>culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                                   | \$5,000,000 / \$10,000,000 |
| □ Other:  |                            |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

|           | of Railroad Emergency               |  |
|-----------|-------------------------------------|--|
| Call: [UP |                                     |  |
| Railroad  | Emergency Line at: 800 - 848 - 8715 |  |
|           | : DOT _432208G                      |  |
| RR Milep  | ost: _0001.795                      |  |
| Subdivici | ion: HEARNE                         |  |





Rail Division

### RAILROAD SCOPE OF WORK

| FILE: rr-scope-of-work.pdf |           | DN: Tx | DOT  | ск:      | DW: | ск:        |
|----------------------------|-----------|--------|------|----------|-----|------------|
| © TxDOT                    | June 2014 | CONT   | SECT | JOB      |     | HIGHWAY    |
| 0/0000                     | REVISIONS | 0095   | 08   | 021, Etc | U   | IS 80, Etc |
| 6/2023                     |           | DIST   |      | COUNTY   |     | SHEET NO.  |
|                            |           | TYI    |      | SMITH F  | c   | 93         |

| ct is adjacent or parallel work, not within RR ROW:<br>6608L  |
|---|
| e: HIGHWAY OVERPASS (RR UNDER)  |
| Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]  |
| Owning Track at Crossing: [UP]  |
| 1.011   |
| on: PALESTINE   |
| NVILLE  |
| ROKEE   |
| rossing: <u>0199-01</u>   |
| 9653610   |
| 95.2714950  |
| k, including any TCP, to be performed by State Contractor:  |
| SISTING ROADWAY.  |
|   |
|   |
|   |
| k to be performed by Railroad Company:  |
|   |
|   |
| GING & INSPECTION   |
| of Railroad Flagging Expected: 0  |
| ct, night or weekend flagging is:   |
|   |
| ted   |
| ices will be provided by:   |
| ompany: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be , 2) Permitted crossing. Railroad company to provide flagging.  |
| arty: Contractor will pay flagging invoices to be reimbursed by TxDOT   |
| ust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid '. |
| mation for Flagging   |
| mation for Flagging:  |
| UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging   |
| UP.request@nrssinc.net Call Center 877-984-6777   |
| Can Control Of FOOT Of FE   |
| BNSFinfo@railprosfs.com   |
| Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com  |
| Call Center 877-315-0513, Select #1 for flagging  |
| Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging   |
| Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services  |
|   |

| v  |  |
|----|--|
| Υ  |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
| е  |  |
|    |  |
|    |  |
|    |  |
|    |  |
| ue |  |
| d  |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |
|    |  |

| Contractor must incorpo  | rate railroad construction inspection into anticipated construction scriedule |
|--------------------------|---|
| ✓ Not Required           |   |
| ☐ Required. Contact In   | formation for Construction Inspection:  |
|                          |   |
|                          |   |
|                          |   |
|                          |   |
|                          |   |
| III. CONSTRUCTION        | N WORK TO BE PERFORMED BY THE RAILROAD  |
| ☐ Required.              |   |
| ✓ Not Required           |   |
| Railroad Point of Contac | t:  |

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

#### IV. RAILROAD INSURANCE REQUIREMENTS

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

| Escalated Limits             |                                   |  |  |  |
|------------------------------|-----------------------------------|--|--|--|
| Type of Insurance            | Amount of Coverage (Minimum)      |  |  |  |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |  |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |  |
| Business Automobile          | \$2,000,000                       |  |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |  |

| Railroad Protective Liability  | / Limits                   |
|--|----------------------------|
| ☐ Not Required   |                            |
| ☐ Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures | \$2,000,000 / \$6,000,000  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures    | \$5,000,000 / \$10,000,000 |
| □ Other:   |                            |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| Call: [UF | of Railroad Emergency               |  |
|-----------|-------------------------------------|--|
|           |                                     |  |
| Railroad  | Emergency Line at: 800 - 848 - 8715 |  |
| Location  | : DOT 426608L                       |  |
| RR Milep  | oost: 0054.011                      |  |
|           | ion: PALESTINE                      |  |





Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

| E: rr-scop | e-of-work.pdf | DN: TX | DOT  | CK:      | DW: |      | ск:       |
|------------|---------------|--------|------|----------|-----|------|-----------|
| TxDOT      | June 2014     | CONT   | SECT | JOB      |     | ніс  | HWAY      |
| 0000       | REVISIONS     | 0095   | 08   | 021, Etc | 2   | US 8 | 30, Etc   |
| 2023       |               | DIST   |      | COUNTY   |     |      | SHEET NO. |
|            |               | TVI    |      | SMITH F  | tc  |      | 9/1       |

| ☐ This proje  DOT No.: 92  | ect is adjacent or parallel work, not within RR ROW:   |
|--|--|
|  | De: HIGHWAY OVERPASS (RR UNDER)  |
|  | y Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]   |
|  | y Owning Track at Crossing: [UP]   |
| RR MP: 058   |  |
| · ·  | ion: CORSICANA   |
| City: ATHEN  |  |
| County: HEI  |  |
| CSJ at this (  | Crossing: 1099-05  |
| Latitude: 32   |  |
|  | 95.8326882   |
| Scope of Wo  | ork, including any TCP, to be performed by State Contractor:   |
|  | ,  |
| STRIPING E   | XISTING ROADWAY.   |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Scope of Wo  | ork to be performed by Railroad Company:   |
|  |  |
|  |  |
| N/A  |  |
| N/A  |  |
| N/A  |  |
|  | GING & INSPECTION  |
| II. FLAG   |  |
| II. FLAG   | of Railroad Flagging Expected: 0   |
| II. FLAG   | of Railroad Flagging Expected: 0<br>ect, night or weekend flagging is:   |
| II. FLAG  No. of Days  On this proju  ☐ Expected   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is:  |
| II. FLAG   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proje  □ Expected  ☑ Not Expe   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proje  Expected  Not Expe  Flagging ser  Railroad   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be   |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Flagging ser  Railroad needed of   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be prov. 2) Permitted crossing. Railroad company to provide flagging.  |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Flagging ser  Railroad needed of   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be   |
| II. FLAG  No. of Days  On this projo  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be prov. 2) Permitted crossing. Railroad company to provide flagging.  |
| II. FLAG  No. of Days  On this proje  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  Contractor r requires a 3   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du  |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Flagging ser  Railroad needed of  Outside If  Contractor requires a 3 to their own   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| II. FLAG  No. of Days  On this proje  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  Contractor r requires a 3   | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| II. FLAG  No. of Days  On this projuic  Expected  Not Expe  Flagging ser  Railroad needed of  Outside F  Contractor r requires a 3 to their own by Contractor                          | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT nust incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| II. FLAG  No. of Days  On this projuic  Expected  Not Expe  Flagging ser  Railroad needed of  Outside F  Contractor r requires a 3 to their own by Contractor                          | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| II. FLAG  No. of Days  On this projous  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract                            | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or. ermation for Flagging:   |
| II. FLAG  No. of Days  On this projous  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract                            | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net   |
| II. FLAG  No. of Days  On this projum  Expected  Not Expe  Railroad  needed of  Outside If  Contractor r  requires a 3  to their own  by Contractor  Contact Info  UPRR                | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777   |
| II. FLAG  No. of Days  On this projous  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract                            | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com   |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Flagging ser  Railroad needed of  Outside If  Contractor requires a 3 to their own by Contract  Contact Info  UPRR  ■ BNSF | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  wrmation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging   |
| II. FLAG  No. of Days  On this projum  Expected  Not Expe  Railroad  needed of  Outside If  Contractor r  requires a 3  to their own  by Contractor  Contact Info  UPRR                | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rmation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com   |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Flagging ser  Railroad needed of  Outside If  Contractor requires a 3 to their own by Contract  Contact Info  UPRR  ■ BNSF | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com   |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Flagging ser  Railroad needed of  Outside If  Contractor requires a 3 to their own by Contract  Contact Info  UPRR  ■ BNSF | of Railroad Flagging Expected: 0 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be pr, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  rrmation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Flagging ser  Railroad needed of  Outside If  Contractor requires a 3 to their own by Contract  Contact Info  UPRR  ■ BNSF | of Railroad Flagging Expected:  oct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  Internation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomline076@aol.com, 903-767-7630 |
| II. FLAG  No. of Days  On this projuth  Expected  Not Expected  Not Expected  Not Expected  Outside If  Contractor requires a 3 to their own by Contract  UPRR  □ BNSF  □ CPKCR        | of Railroad Flagging Expected:  oct, night or weekend flagging is:  cted  vices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  nust incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  Internation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-984-6777  BNSFinfo@railprosfs.com  Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services  bottomline076@aol.com, 903-767-7630 |

| NY. |  |
|-----|--|
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| e   |  |
|     |  |
|     |  |
|     |  |
| lue |  |
| id  |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |

| Contra | actor must incorporate railroad construction inspection into anticipated construction schedule. |
|--------|---|
| ☑ Not  | t Required  |
| ☐ Red  | quired. Contact Information for Construction Inspection:  |
|        |   |
|        |   |
|        |   |
|        |   |
| III.   | CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD   |
| □ Red  | quired.   |
| ✓ Not  | t Required  |

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

#### IV. RAILROAD INSURANCE REQUIREMENTS

Railroad Point of Contact:

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

| E                            | Escalated Limits                  |
|------------------------------|-----------------------------------|
| Type of Insurance            | Amount of Coverage (Minimum)      |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |
| Business Automobile          | \$2,000,000                       |
|                              |                                   |

| Railroad Protective Liability   | / Limits                   |
|---|----------------------------|
| ☐ Not Required  |                            |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                               | \$5,000,000 / \$10,000,000 |
| □ Other:  |                            |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### **VIII. SUBCONTRACTORS**

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| Call: [UI | Pl                                  |   |
|-----------|-------------------------------------|---|
|           | Emergency Line at: 800 - 848 - 8715 |   |
|           | n: DOT 920052G                      |   |
| RR Mile   | post: 0581.860                      | · |
|           | sion: CORSICANA                     |   |





Division

#### **RAILROAD SCOPE OF WORK** PROJECT SPECIFIC DETAILS

| FILE: rr-scope-of-work.pdf | e-of-work.pdf DN: | TxI | TOC  | ск:      | DW: |      | CK:    |
|----------------------------|-------------------|-----|------|----------|-----|------|--------|
| © TxDOT June 2014          | June 2014 co      | NT  | SECT | JOB      |     | HIGI | HWAY   |
| REVISIONS                  | REVISIONS 00      | 95  | 08   | 021. Etc | 2   | US 8 | O. Etc |

| LE: rr-scop | e-of-work.pdf | DN: TX | DOT  | ск:      | DW: | CK:        |
|-------------|---------------|--------|------|----------|-----|------------|
| TxDOT       | June 2014     | CONT   | SECT | JOB      |     | HIGHWAY    |
| ·/0000      | REVISIONS     | 0095   | 08   | 021, Et  | c L | JS 80, Etc |
| 6/2023      |               | DIST   |      | COUNTY   |     | SHEET NO.  |
|             |               | T)/I   |      | CANTILLE | 4   | 0.5        |

|  | ect is adjacent or parallel work, not within RR ROW:  |
|--|---|
| DOT No.: 45  |   |
|  | DE: HIGHWAY AT GRADE (RR AT GRADE)  |
|  | y Operating Track at Crossing: BLACKLANDS RAILROAD [BLR]  |
|  | y Owning Track at Crossing: [BLR]   |
| RR MP: 001   |   |
|  | ion: HENDERSON IND  |
| City: HENDE  |   |
| County: RU   |   |
|  | Crossing: 3421-01   |
| Latitude: 32   |   |
| Longitude: _   | 94.8182370  |
| Scope of Wo  | ork, including any TCP, to be performed by State Contractor:  |
| STRIPING E   | XISTING ROADWAY.  |
|  |   |
|  |   |
|  |   |
| Scope of Wo  | ork to be performed by Railroad Company:  |
|  |   |
| N/A  |   |
| N/A  |   |
| N/A  |   |
| ,  | GING & INSPECTION   |
| ,  | GING & INSPECTION   |
| II. FLAG   | GING & INSPECTION  of Railroad Flagging Expected: 2   |
| II. FLAG   |   |
| II. FLAG<br>No. of Days<br>On this proje   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| II. FLAG  No. of Days  On this proje  □ Expected   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| II. FLAG  No. of Days  On this proje  □ Expected  ☑ Not Expe   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted  |
| II. FLAG  No. of Days  On this proju  □ Expected  ☑ Not Expe   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by:   |
| II. FLAG  No. of Days  On this proju  Expected  Not Expe  Flagging ser  Railroad   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be  |
| II. FLAG  No. of Days  On this proje  Expected  Not Expe  Flagging ser  Railroad needed of   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be prov. 2) Permitted crossing. Railroad company to provide flagging.   |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be prov. 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Railroad needed of  Outside I  Contractor requires a 3 to their own                                  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Railroad  needed of  Outside If  Contractor r  requires a 3  to their own  by Contractor             | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info      | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or. ermation for Flagging:   |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info      | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info      | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net   |
| II. FLAG  No. of Days  On this project  Expected  Not Expe  Railroad needed of  Outside If  Contractor r requires a 3 to their own by Contract  Contact Info     | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted  vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  virmation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com  |
| II. FLAG  No. of Days On this projum Expected Not Expected Not Expe Railroad needed of Outside F  Contractor r requires a 3 to their own by Contractor UPRR      | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  urmation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com   |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Railroad  needed of  Outside F  Contractor r  requires a 3  to their own by Contractor  Contact Info | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  remation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  |
| II. FLAG  No. of Days  On this project  Expected  Not Expe  Railroad needed of  Outside F  Contractor r requires a 3 to their own by Contractor  UPRR  ■ BNSF    | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  remation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services  |
| II. FLAG  No. of Days  On this projute  Expected  Not Expe  Railroad  needed of  Outside If  Contractor r  requires a 3  to their own  by Contractor             | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted  vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad 0-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  wrmation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  Bottom Line On-Track Safety Services bottomline 076@aol.com, 903-767-7630 |

| Contractor must incorporate railroad construct  ☑ Not Required ☐ Required. Contact Information for Construct                         | ction Inspection into anticipated construction schedule.   |
|--|--|
| III. CONSTRUCTION WORK TO BE PER   | RFORMED BY THE RAILROAD  |
| ✓ Not Required Railroad Point of Contact:  |  |
| a work order for any work done by the Railroad  IV. RAILROAD INSURANCE REQUIREM  | formed by the Railroad Company. TxDOT must issue d Company prior to the work being performed.  WENTS  quirements with the Railroad as the insurance limits |
| are subject to change without notice.  Insurance policies and corresponding certification behalf of the Railroad. Separate insurance | ates of insurance must be issued by the contractor policies and certificates are required when more same right of way, or when several Railroad            |
| No direct compensation will be made to the C shown below or any deductibles. These costs   | contractor for providing the insurance coverages are incidental to the various bid items.  |
| Esca   | lated Limits   |
| Type of Insurance  | Amount of Coverage (Minimum)   |
| Workers Compensation   | \$500,000 / \$500,000 / \$500,000  |
| Commercial General Liability   | \$2,000,000 / \$4,000,000  |
| Business Automobile  | \$2,000,000  |

| Commercial General Liability  | \$2,000,000 / \$4,000,000  |
|---|----------------------------|
| Business Automobile   | \$2,000,000                |
|   |                            |
| Railroad Protective Lia   | ability Limits             |
| ☐ Not Required  |                            |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                               | \$5,000,000 / \$10,000,000 |
| □ Other:  |                            |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| ☐ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☑ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☑ Other Railroads: [BLR]   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### **VII. RAILROAD SAFETY ORIENTATION**

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

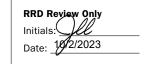
Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

|           | of Railroad Emergency               |  |
|-----------|-------------------------------------|--|
| Call: [BL | .nj                                 |  |
| Railroad  | Emergency Line at: 800 - 848 - 8715 |  |
|           | : DOT 450604V                       |  |
| RR Milep  | oost: 0012.640                      |  |
| Subdivis  | ion: HENDERSON IND                  |  |





Division

SHEET NO.

### DAIL DOAD COORE OF WORK

FILE: rr-scope-of-work.pdf DN: TXDOT CK: © TxDOT June 2014 CONT SECT JOB HIGHWAY 0095 08 021, Etc US 80, Etc 6/2023

TYL

SMITH, Etc.

| KAILKUAD | SCOPE      | OF WORK |
|----------|------------|---------|
| PROJECT  | SPECIFIC D | DETAILS |

| □ This proje DOT No.: 4   | ect is adjacent or parallel work, not within RR ROW:   |
|---|--|
|   | DOE: HIGHWAY AT GRADE (RR AT GRADE)  |
|   | y Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]   |
|   | y Owning Track at Crossing: [UP]   |
| RR MP: 002  |  |
| RR Subdivis   | ion: TYLER IND LD  |
| City: TYLER   |  |
| County: SM  | ITH  |
|   | Crossing: <u>2075-01</u>   |
| Latitude: 3   |  |
| Longitude: _  | -95.3194853  |
| Scope of Wo   | ork, including any TCP, to be performed by State Contractor:   |
| STRIPING E  | EXISTING ROADWAY.  |
|   | ork to be performed by Railroad Company:   |
| N/A   |  |
| II. FLAG  | GING & INSPECTION  |
| II. FLAG  | aGING & INSPECTION  of Railroad Flagging Expected: 2   |
| II. FLAG  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj  □ Expectec  ☑ Not Expe  Flagging ser   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  Flagging set  □ Railroad  needed of  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by:   |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Flagging ser  Railroad needed of  Outside I  Contractor requires a 3  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 60-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| II. FLAG  No. of Days  On this projum  Expected  Not Expe  Railroad  needed of  Outside I  Contractor r  requires a 3  to their own  by Contractor                      | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 60-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contractor                           | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: deted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com   |
| II. FLAG  No. of Days  On this projum  Expected  Not Expe  Railroad  needed of  Outside I  Contractor requires a 3 to their own by Contract                             | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or. primation for Flagging:   |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contractor  Contact Info  UPRR       | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net  |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info  UPRR  ■ BNSF | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected excited exc |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Flagging sel  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract               | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  detect rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be pr. 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com  |

| Contractor must incorporate railroad construction ins  ✓ Not Required  □ Required. Contact Information for Construction In  |  |
|---|--|
| III. CONSTRUCTION WORK TO BE PERFORM  | MED BY THE RAILROAD  |
| □ Popuired  |  |
| <ul><li>☐ Required.</li><li>☑ Not Required</li></ul>  |  |
| Railroad Point of Contact:  |  |
| Coordinate with TxDOT for any work to be performed a work order for any work done by the Railroad Comp  |  |
| IV. RAILROAD INSURANCE REQUIREMENTS   | 5  |
| The Contractor shall confirm the insurance requirem are subject to change without notice.   | ents with the Railroad as the insurance limits   |
| Insurance policies and corresponding certificates of<br>on behalf of the Railroad. Separate insurance policie<br>than one Railroad Company is operating on the same<br>Companies are involved and operate on their own se | es and certificates are required when more<br>e right of way, or when several Railroad |
| No direct compensation will be made to the Contract shown below or any deductibles. These costs are incompensation will be made to the Contract shown below or any deductibles.   | -  |
| Escalated L   | imits  |
| Type of Insurance   | Amount of Coverage (Minimum)   |
| Workers Compensation  | \$500,000 / \$500,000 / \$500,000  |
| Commercial General Liability  | \$2,000,000 / \$4,000,000  |
| Business Automobile   | \$2,000,000  |
|   |  |
| Railroad Protective I   | Liability Limits   |
| ☐ Not Required  |  |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul>   | \$2,000,000 / \$6,000,000  |

construction or replacement of overpass/

underpass structures

□ Other:

| Required. Contact Information for Construction In  | spection:  | _        |
|--|--|----------|
|  |  |          |
| I. CONSTRUCTION WORK TO BE PERFORM   | MED BY THE RAILROAD  |          |
| Required.  |  |          |
| Not Required   |  |          |
| ailroad Point of Contact:  |  | _        |
| oordinate with TxDOT for any work to be performed work order for any work done by the Railroad Comp  | , ,  |          |
| /. RAILROAD INSURANCE REQUIREMENTS   | 3  |          |
| ne Contractor shall confirm the insurance requirement subject to change without notice.  | ents with the Railroad as the insurance limits   |          |
| isurance policies and corresponding certificates of<br>in behalf of the Railroad. Separate insurance policie<br>ian one Railroad Company is operating on the same<br>ompanies are involved and operate on their own se | es and certificates are required when more<br>e right of way, or when several Railroad |          |
| o direct compensation will be made to the Contract   | ·  |          |
| Escalated L  | imits  |          |
| Type of Insurance  | Amount of Coverage (Minimum)   |          |
| Workers Compensation   | \$500,000 / \$500,000 / \$500,000  |          |
| Commercial General Liability   | \$2,000,000 / \$4,000,000  |          |
| Business Automobile  | \$2,000,000  |          |
|  |  | ,  <br>1 |
| Railroad Protective I  | Liability Limits   |          |
| ☐ Not Required   |  |          |
| Non - Bridge/Typical Maintenance Projects.<br>Includes repairs to overpass/underpass and<br>culvert structures   | \$2,000,000 / \$6,000,000  |          |
| ☐ Bridge Structure Projects. Includes new  | \$5,000,000 / \$10,000,000   |          |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |
| ☐ Required: Contractor to obtain                                 |
| ☐ BNSF:  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |
| ☐ Other Railroads:   |

o view previously approved CROE templates agreed upon between the State and Railroad, see: ttps://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entrygreements.html

pproved CROE templates are not to be modified by the Contractor.

ontractor shall not operate within Railroad Right of Way without an executed Construction & laintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### . RAILROAD COORDINATION MEETING

Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications or Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### II. RAILROAD SAFETY ORIENTATION

. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

PRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

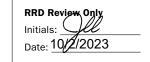
(now and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### III. SUBCONTRACTORS

ontractor shall not subcontract work without written consent of TxDOT. Subcontractors are ubject to the same insurance requirements as the Prime Contractor.

#### . EMERGENCY NOTIFICATION

|          | of Railroad Emergency                 |  |
|----------|---------------------------------------|--|
| Call: [U | 7. [                                  |  |
| Railroad | d Emergency Line at: 800 - 848 - 8715 |  |
|          | n: DOT <u>426775</u> K                |  |
| RR Mile  | epost: 0021.754                       |  |
|          | sion: TYLER IND LD                    |  |





Division

### **RAILROAD SCOPE OF WORK**

| FILE: TT-SCOP | e-of-work.pdf | DN: Tx | DOT  | ск:      | DW: | CK:        |
|---------------|---------------|--------|------|----------|-----|------------|
| © TxDOT       | June 2014     | CONT   | SECT | JOB      |     | HIGHWAY    |
| 0/0000        | REVISIONS     | 0095   | 08   | 021, Etc | ;   | US 80, Etc |
| 6/2023        |               | DIST   |      | COUNTY   | •   | SHEET NO.  |
|               |               | TYL    |      | SMITH, E | tc  | 97         |

|  | ect is adjacent or parallel work, not within RR ROW:   |
|--|--|
| DOT No.: 78  | De: HIGHWAY AT GRADE (RR AT GRADE)   |
|  | y Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]   |
|  | y Owning Track at Crossing: [UP]   |
| RR MP: 054   |  |
| RR Subdivis  | ion: CORSICANA   |
| City: TYLER  |  |
| County: SM   |  |
|  | Crossing: 2075-01  |
| Latitude: 3  |  |
| Longitude: _   | 95.2736704   |
| Scope of Wo  | ork, including any TCP, to be performed by State Contractor:   |
| STRIPING E   | EXISTING ROADWAY.  |
| Scope of Wo  | ork to be performed by Railroad Company:   |
| N/A  |  |
| II. FLAG   | of Railroad Flagging Expected: 2   |
| II. FLAG  No. of Days  On this proj  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj.  □ Expected  ☑ Not Exper  Flagging sel  □ Railroad  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be   |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  Flagging set  □ Railroad  needed of   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted vices will be provided by:  |
| II. FLAG  No. of Days  On this projum  Expected  Not Expe  Railroad needed of  Outside I  Contractor requires a 3  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad iO-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid   |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contractor                            | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad incompany to provide flaggers, any flagging charges will be paid  |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contractor                            | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad incompany to provide flagging invoices to be reimbursed by TxDOT must incorporate flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Flagging sel  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com   |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Flagging sel  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  cted  cted  cvices will be provided by:  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  must incorporate flaggers into anticipated construction schedule. The Railroad  O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging:  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  |
| II. FLAG  No. of Days  On this proj.  Expected  Not Expe  Railroad needed of  Outside I  Contractor r requires a 3 to their own by Contract  Contact Info  UPRR          | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted  vices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad inust incorporate flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  formation for Flagging:  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com  |
| II. FLAG  No. of Days On this proj. Expected Not Expected Not Experted Railroad needed of Outside I Contractor r requires a 3 to their own by Contract Contact Info UPRR | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: cted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad O-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com |

| AY  |  |
|-----|--|
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| е   |  |
|     |  |
|     |  |
| lue |  |
| id  |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |

□ Not Required

□ Other:

culvert structures

underpass structures

☑ Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and

☐ Bridge Structure Projects. Includes new construction or replacement of overpass/

| Contractor must incorporate railroad constru  ✓ Not Required  ☐ Required. Contact Information for Const   | uction inspection into anticipated construction schedule ruction Inspection:   |
|---|--|
|   |  |
| III. CONSTRUCTION WORK TO BE P  | ERFORMED BY THE RAILROAD   |
| <ul><li>□ Required.</li><li>☑ Not Required</li></ul>  |  |
| Railroad Point of Contact:  |  |
|   | erformed by the Railroad Company. TxDOT must issue bad Company prior to the work being performed.  EMENTS  |
|   |  |
| The Contractor shall confirm the insurance are subject to change without notice.  | requirements with the Railroad as the insurance limit  |
| are subject to change without notice.<br>Insurance policies and corresponding certif<br>on behalf of the Railroad. Separate insuran   | icates of insurance must be issued by the contractor<br>ce policies and certificates are required when more<br>the same right of way, or when several Railroad   |
| are subject to change without notice.  Insurance policies and corresponding certif on behalf of the Railroad. Separate insuran than one Railroad Company is operating on Companies are involved and operate on the  | ce policies and certificates are required when more the same right of way, or when several Railroad ir own separate right of ways.  • Contractor for providing the insurance coverages   |
| are subject to change without notice.  Insurance policies and corresponding certif on behalf of the Railroad. Separate insuran than one Railroad Company is operating on Companies are involved and operate on the No direct compensation will be made to the shown below or any deductibles. These cos | icates of insurance must be issued by the contractor ce policies and certificates are required when more the same right of way, or when several Railroad ir own separate right of ways.  • Contractor for providing the insurance coverages  |
| are subject to change without notice.  Insurance policies and corresponding certif on behalf of the Railroad. Separate insuran than one Railroad Company is operating on Companies are involved and operate on the No direct compensation will be made to the shown below or any deductibles. These cos | icates of insurance must be issued by the contractor ce policies and certificates are required when more the same right of way, or when several Railroad ir own separate right of ways.  • Contractor for providing the insurance coverages are incidental to the various bid items.   |
| are subject to change without notice.  Insurance policies and corresponding certif on behalf of the Railroad. Separate insuranthan one Railroad Company is operating on Companies are involved and operate on the No direct compensation will be made to the shown below or any deductibles. These cos  | icates of insurance must be issued by the contractor ce policies and certificates are required when more the same right of way, or when several Railroad ir own separate right of ways.  • Contractor for providing the insurance coverages its are incidental to the various bid items.   |
| are subject to change without notice.  Insurance policies and corresponding certif on behalf of the Railroad. Separate insuran than one Railroad Company is operating on Companies are involved and operate on the No direct compensation will be made to the shown below or any deductibles. These cos | icates of insurance must be issued by the contractor ce policies and certificates are required when more the same right of way, or when several Railroad ir own separate right of ways.  2 Contractor for providing the insurance coverages its are incidental to the various bid items.  Calated Limits  Amount of Coverage (Minimum) |

**Railroad Protective Liability Limits** 

\$2,000,000 / \$6,000,000

\$5,000,000 / \$10,000,000

| V.   | CONTRACTOR'S RIGHT OF ENTRY (CROE)                             |
|------|--|
| □ N  | ot Required  |
| ☑ Re | equired: UPRR Maintenance Consent Letter. TxDOT to assist      |
| □ Re | equired: TxDOT to assist in obtaining the UPRR CROE            |
| □ Re | equired: Contractor to obtain                                  |
|      | ☐ BNSF:  |
|      | ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12 |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

□ Other Railroads:

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

|             | Railroad Emergency                 |
|-------------|------------------------------------|
| Call: [UP]  |                                    |
| Railroad E  | mergency Line at: 800 - 848 - 8715 |
| Location: [ | OOT 789822T                        |
| RR Milepo   | st: _0543.800                      |
| Subdivisio  | n: CORSICANA                       |
| Subdivisio  | n: CORSICANA                       |





Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

| FILE: rr-scop | e-of-work.pdf | DN: Tx | DOT  | CK: DW    | :  | ск:       |
|---------------|---------------|--------|------|-----------|----|-----------|
| © TxDOT       | June 2014     | CONT   | SECT | JOB       | 1  | HIGHWAY   |
| 0/0000        | REVISIONS     | 0095   | 08   | 021, Etc  | US | 80, Etc   |
| 6/2023        |               | DIST   |      | COUNTY    |    | SHEET NO. |
|               |               | TYI    |      | SMITH Ftc |    | 98        |

|   | ect is adjacent or parallel work, not within RR ROW:   |
|---|--|
| DOT No.: 3  | DOE: HIGHWAY AT GRADE (RR AT GRADE)  |
|   | y Operating Track at Crossing: KANSAS CITY SOUTHERN RAILROAD COMPANY [CPKCR]   |
|   | y Owning Track at Crossing: [CPKCR   |
| RR MP: 01:  |  |
|   | ion: GREENVILLE  |
| City: WINNS   |  |
| County: WC  |  |
|   | Crossing: 0083-06  |
| Latitude: 3   |  |
|   | -35.2640110  |
| Scope of We   | ork, including any TCP, to be performed by State Contractor:   |
|   |  |
| STRIPING E  | EXISTING ROADWAY.  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
| Scope of Wo   | ork to be performed by Railroad Company:   |
|   |  |
| N/A   |  |
| N/A   |  |
| N/A   |  |
|   | GING & INSPECTION  |
| II. FLAG  |  |
| II. FLAG  | GGING & INSPECTION  of Railroad Flagging Expected: 2   |
| II. FLAG  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj  □ Expected   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: I  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expert  Flagging sel  □ Railroad   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: licted rvices will be provided by:   |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  Flagging sel  □ Railroad  needed of  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dicted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  Flagging sel  □ Railroad needed of  ☑ Outside  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  □ Railroad  needed of  ☑ Outside □  Contractor of  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging.   |
| II. FLAG  No. of Days  On this proj  Expected  Not Expe  Railroad needed of  Outside  Contractor requires a 3 to their own  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dect.  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad conduction is their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| II. FLAG  No. of Days  On this proj  Expected  Not Expe  Railroad needed of  Outside    Contractor    requires a 3  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dect.  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad conduction is their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| II. FLAG  No. of Days  On this proj  Expected  Not Expe  Railroad needed of  Outside  Contractor requires a 3 to their own by Contract                              | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dect.  Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging.  Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad conduction is their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| II. FLAG  No. of Days  On this proj  Expected  Not Expe  Railroad needed of  Outside  Contractor requires a 3 to their own by Contract                              | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  □ Railroad needed of  ☑ Outside    ☐ Contractor is requires a 3 to their own by Contract  Contact Info | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or. primation for Flagging:  |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  □ Railroad needed of  ☑ Outside    ☐ Contractor is requires a 3 to their own by Contract  Contact Info | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 60-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net   |
| II. FLAG  No. of Days  On this proj  Expected  Not Expe  Railroad needed of  Outside    Contractor requires a 3 to their own by Contract  Contact Info              | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected excited exc |
| II. FLAG  No. of Days  On this proj  □ Expected  ☑ Not Expe  □ Railroad needed of  ☑ Outside    ☐ Contractor is requires a 3 to their own by Contract  Contact Info | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected excited exc |
| II. FLAG  No. of Days  On this proj  Expected  Not Expe  Railroad needed of  Outside    Contractor requires a 3 to their own by Contract  Contact Info              | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected excited exc |
| II. FLAG  No. of Days  On this proj  Expected  Not Expected  Railroad needed of  Outside    Contractor requires a 3 to their own by Contract  Contact Info  UPRR    | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad co-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging   |
| II. FLAG  No. of Days  On this proj  Expected  Not Expected  Railroad needed of  Outside    Contractor requires a 3 to their own by Contract  Contact Info  UPRR    | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: deted rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services   |
| II. FLAG  No. of Days  On this proj  Expected  Not Expected  Railroad needed of  Outside    Contractor requires a 3 to their own by Contract  Contact Info  UPRR    | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad flo-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  primation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging BOTIOM Line On-Track Safety Services bottomline O76@aol.com, 903-767-7630  |

| AY  |  |
|-----|--|
|     |  |
|     |  |
| R]  |  |
| vj  |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
| be  |  |
|     |  |
|     |  |
| due |  |
| aid |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |
|     |  |

| Contractor must incorporate railroad construction inspection into anticipated construction sche | uuie |
|---|------|
| ✓ Not Required  |      |
| ☐ Required. Contact Information for Construction Inspection:                                    |      |
|   |      |
|   |      |
|   |      |
|   |      |
|   |      |
| III. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD  |      |
| ☐ Required.   |      |
| ☑ Not Required  |      |
| Railroad Point of Contact:  |      |
| Railloau Foilit of Contact.   |      |

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

#### IV. RAILROAD INSURANCE REQUIREMENTS

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

| Escalated Limits             |                                   |  |  |
|------------------------------|-----------------------------------|--|--|
| Type of Insurance            | Amount of Coverage (Minimum)      |  |  |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |
| Business Automobile          | \$2,000,000                       |  |  |
|                              |                                   |  |  |

| Railroad Protective Liability Limits  |                            |  |  |
|---|----------------------------|--|--|
| ☐ Not Required  |                            |  |  |
| <ul> <li>Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and<br/>culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |  |  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                                   | \$5,000,000 / \$10,000,000 |  |  |
| □ Other:  |                            |  |  |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |
|--|
| $\ \square$ Required: UPRR Maintenance Consent Letter. TxDOT to assist |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE       |
| ☑ Required: Contractor to obtain                                       |
| ☐ BNSF:  |
| ☑ CPKCR  https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12        |
| ☐ Other Railroads:   |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entry-agreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| Call: [Cl | of Railroad Emergency PKCR]         |  |
|-----------|-------------------------------------|--|
|           | Emergency Line at: 877 - 527 - 9464 |  |
|           | n: DOT 331556F                      |  |
| RR Mile   | post: 0116.090                      |  |
|           | sion: GREENVILLE                    |  |





Rail Division

# RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

| FILE: TT-SCOP | e-of-work.pdf | DN: TX | DOT  | CK:      | DW: | CK:        |
|---------------|---------------|--------|------|----------|-----|------------|
| © TxDOT       | June 2014     | CONT   | SECT | JOB      |     | HIGHWAY    |
| 0/0000        | REVISIONS     | 0095   | 08   | 021, Etc | : 1 | JS 80, Etc |
| 6/2023        |               | DIST   |      | COUNTY   |     | SHEET NO.  |
|               |               | TYL    |      | SMITH, E | Etc | 99         |

| DOT No.; 7947048  Crossing Type; HiGHWAY AT GRADE (RR AT GRADE)  RR Company Operating Track at Crossing: [UP]  RR Company Owning Track at Crossing: [UP]  RR MP: 0131.780  RR Subdivision: MINEOLA  County: WOOD  CSJ at this Crossing: 2274-01  Latitude: 32.6476599  Longitude: 95.4176136  Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Onthis project, night or weekend flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDDT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule duto their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  UPRR UPInfo@railpros.com Call Center 877-315-0513, Select #1 for flagging UPrequest@ressinc.net Call Center 877-315-0513, Select #1 for flagging EPKCR KG. Sinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging EPKCR KG. Sinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging BOSTOM Line On-Track Safety Services bottom Line On-Track Safety Services  |   | ect is adjacent or parallel work, not within RR ROW:  |
|---|---|---|
| RR Company Operating Track at Crossing: UNION PACIFIC RAILROAD COMPANY [UP]  RR Company Owning Track at Crossing: [UP]  RR MP: 0131.780  City: MINEOLA  County: WOOD  CSJ at this Crossing: 2274-01  Latitude: 32.6476589  Longitude: _95.4176136  Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Outside Party: Contractor will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging CIPKOR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging BNSF SNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging CIPKOR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging CIPKOR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging CIPKOR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging CIPKOR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging CIPKOR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging CIPKOR  CALL CENTER 87.315-0513, Select #1 for flagging   |   |   |
| RR Company Owning Track at Crossing: IUP]  RR MP; 0131.780  RR NJ O131.780  RR Subdivision: MINEOLA  City: MINEOLA  County: WOOD  CSJ at this Crossing: 2274-01  Latitude: 32.6476589  Longitude: 95.4176136  Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work to be performed by Railroad Company:  N/A  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  Expected  Not Expected  Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing, Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging UPrequest@nrssinc.net Call Center 877-315-0513, Select #1 for flagging BNSF BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging BNSF BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging BOLTOM Line On-Track Safety Services   |   |   |
| RR MP: 0131.780 RR Subdivision: MINEOLA City: MINEOLA City: MINEOLA County: WOOD CSJ at this Crossing: 2274-01 Latitude: 32.6476589 Longitude: -95.4176136 Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work to be performed by Railroad Company:  N/A  II. FLAGGING & INSPECTION No. of Days of Railroad Flagging Expected: 2 On this project, night or weekend flagging is: Expected Not Expected Not Expected Not Expected Not Expected Not Expected Not Expected Outside Party: Contractor will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing, Railroad company to provide flagging. Outside Party: Contractor must incorporate flaggers into anticipate construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging: UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging BNSF BNSFinfo@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services   |   |   |
| RR Subdivision: MINEOLA  City: MINEOLA  County: WOOD  CSJ at this Crossing: 2274-01  Latitude: 32.6476589  Longitude: -95.4176136  Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work to be performed by Railroad Company:  N/A  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Raigling services will be provided by:  Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dut to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP.request@nrssinc.net  Call Center 877-315-0513, Select #1 for flagging  CHCRR KCS.Info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  BOSTON Line On-Track Safety Services   |   |   |
| County: WOOD  CSJ at this Crossing: 2274-01 Latitude: 32.6476589 Longitude: 95.4176136  Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work to be performed by Railroad Company:  N/A  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2 On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected will be provided by:  Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.request@mrssinc.net Call Center 877-315-0513, Select #1 for flagging UP.request@mrssinc.net Call Center 877-315-0513, Select #1 for flagging CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services  | RR Subdivis   | ion: MINEOLA  |
| CSJ at this Crossing: 2274-01  Latitude: 32.6476589  Longitude: -95.4176136  Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work to be performed by Railroad Company:  N/A  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Not Expected: 2  Outside Party: Contractor will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@rrssinc.net Call Center 877-315-0513, Select #1 for flagging CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging BOLTOM Line On-Track Safety Services   | City: MINEC   | DLA   |
| Latitude: 32.6476589  Longitude: 95.4176136  Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work to be performed by Railroad Company:  N/A  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Outside Party: Contractor will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own selligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPPR  UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP:request@rissinc.net Call Center 877-315-0513, Select #1 for flagging CPKCR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging BOttom Line On-Track Safety Services  | County: WC  | OOD   |
| Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work to be performed by Railroad Company:  N/A  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2 On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected  Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com Call Center 877-984-6777  BNSF BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-315-0513, Select #1 for flagging CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services  |   |   |
| Scope of Work, including any TCP, to be performed by State Contractor:  STRIPING EXISTING ROADWAY.  Scope of Work to be performed by Railroad Company:  N/A  II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  Expected  Not Expected  Not Expected  Not Expected sill be provided by:  Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR  UP.info@railpros.com  Call Center 877-315-0513, Select #1 for flagging  UP: request@rrssinc.net Call Center 877-315-0513, Select #1 for flagging  CPKCR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  CPKCR  KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging  BOSTOM Line On-Track Safety Services  |   |   |
| Scope of Work to be performed by Railroad Company:    N/A   | Longitude:  | -95.4176136   |
| II. FLAGGING & INSPECTION   | Scope of W  | ork, including any TCP, to be performed by State Contractor:  |
| II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  □ Expected  ☑ Not Expected  ☑ Not Expected  ☑ Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  ☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  ☑ UPRR  ☐ UP.info@railpros.com  ☐ Call Center 877-315-0513, Select #1 for flagging  ☐ UP.request@nrssinc.net  ☐ Call Center 877-315-0513, Select #1 for flagging  ☐ CPKCR  ☐ KCS.info@railpros.com  ☐ Call Center 877-315-0513, Select #1 for flagging  ☐ CPKCR  ☐ KCS.info@railpros.com  ☐ Call Center 877-315-0513, Select #1 for flagging  ☐ OPKCR  ☐ CPKCR  ☐ CPK | STRIPING E  | EXISTING ROADWAY.   |
| II. FLAGGING & INSPECTION  No. of Days of Railroad Flagging Expected: 2  On this project, night or weekend flagging is:  □ Expected  ☑ Not Expected  ☑ Not Expected  ☐ Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  ☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  ☑ UPRR   | Scope of W  | ork to be performed by Railroad Company:  |
| □ Expected  ☑ Not Expected  ☐ Not Expected  ☐ Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  ☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  ☑ UPRR UP.info@railpros.com  | N/A   |   |
| Flagging services will be provided by:  □ Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  ☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  ☑ UPRR UP.info@railpros.com   | N/A   | <u>.</u>  |
| Flagging services will be provided by:  □ Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.  ☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT  Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  ☑ UPRR UP.info@railpros.com  | N/A  II. FLAG  No. of Days  | of Railroad Flagging Expected: 2  |
| <ul> <li>□ Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.</li> <li>☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT</li> <li>Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.</li> <li>Contact Information for Flagging:</li> <li>☑ UPRR UP.info@railpros.com</li></ul>   | N/A  II. FLAC  No. of Days  On this proj  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| <ul> <li>□ Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.</li> <li>☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT</li> <li>Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.</li> <li>Contact Information for Flagging:</li> <li>☑ UPRR UP.info@railpros.com</li></ul>  | N/A  II. FLAC  No. of Days  On this proj  □ Expected  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is:   |
| <ul> <li>✓ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT</li> <li>Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule du to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.</li> <li>Contact Information for Flagging:</li> <li>✓ UPRR UP.info@railpros.com         <ul> <li>Call Center 877-315-0513, Select #1 for flagging</li> <li>UP.request@nrssinc.net</li> <li>Call Center 877-315-0513, Select #1 for flagging</li> </ul> </li> <li>CPKCR KCS.info@railpros.com         <ul> <li>Call Center 877-315-0513, Select #1 for flagging</li> <li>CPKCR KCS.info@railpros.com</li> <li>Call Center 877-315-0513, Select #1 for flagging</li> <li>Bottom Line On-Track Safety Services</li> </ul> </li> </ul>   | N/A  II. FLAC  No. of Days  On this proj  □ Expected  ☑ Not Expe  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected  |
| requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule duto their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.  Contact Information for Flagging:  UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777  BNSF BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging  CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services   | N/A  II. FLAC  No. of Days  On this proj  □ Expected □ Not Experiment  Flagging se □ Railroad   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be   |
| □ UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777  ■ BNSF BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging  □ CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services  | N/A  II. FLAC  No. of Days  On this proj  Expected  Not Expe  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be prov. 2) Permitted crossing. Railroad company to provide flagging.  |
| □ UPRR UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777  ■ BNSF BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging  □ CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services  | N/A  II. FLAC  No. of Days On this proj Expected Not Expected Railroad needed of Outside  Contractor if requires a 3 to their own   | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provided crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid  |
| UP.request@nrssinc.net Call Center 877-984-6777  BNSF BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging  CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services   | N/A  II. FLAC  No. of Days On this proj Expected Not Expected Not Expected Railroad needed of Outside  Contractor is requires a 3 to their own by Contract                  | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  |
| □ BNSF BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging □ CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services   | N/A  II. FLAC  No. of Days On this proj Expected Not Expected Not Expected Railroad needed of Outside Contractor is requires a 3 to their own by Contract Contact Info      | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com   |
| □ CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services   | N/A  II. FLAC  No. of Days On this proj Expected Not Expected Not Expected Railroad needed of Outside Contractor is requires a 3 to their own by Contract Contact Info      | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be por, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due negligence and is not ready for scheduled flaggers, any flagging charges will be paid for.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net   |
| Bottom Line On-Track Safety Services  | N/A  II. FLAG  No. of Days  On this proj  Expected  Not Expected  Railroad needed of  Outside  Contractor is requires a 3 to their own by Contract  UPRR                    | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be provide crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid process.  Ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com  |
|   | N/A  II. FLAC  No. of Days On this proj Expected Not Expected Not Expected Railroad needed of Outside Contractor of requires a 3 to their own by Contract Contact Info UPRR | of Railroad Flagging Expected: 2 ect, night or weekend flagging is: dected rvices will be provided by: Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be or, 2) Permitted crossing. Railroad company to provide flagging. Party: Contractor will pay flagging invoices to be reimbursed by TxDOT must incorporate flaggers into anticipated construction schedule. The Railroad 80-day notice if their flaggers are to be utilized. If Contractor falls behind schedule dunegligence and is not ready for scheduled flaggers, any flagging charges will be paid or.  ormation for Flagging: UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777 BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging KCS.info@railpros.com |

| Not Required   |  |
|--|--|
| Required. Contact Information for Constru  | uction Inspection:   |
|  |  |
| W CONSTRUCTION WORK TO DE DE   | TOPODMED BY THE DAN DOAD   |
| <ul><li>II. CONSTRUCTION WORK TO BE PE</li><li>Required.</li></ul>   | REPORTED BY THE RAILROAD   |
| Not Required   |  |
| Railroad Point of Contact:   |  |
|  | rformed by the Railroad Company. TxDOT mu<br>ad Company prior to the work being performe   |
| V. RAILROAD INSURANCE REQUIRE  | EMENTS   |
| The Contractor shall confirm the insurance rule subject to change without notice.  | equirements with the Railroad as the insuran   |
| -  |  |
| nsurance policies and corresponding certific<br>on behalf of the Railroad. Separate insuranc   | e policies and certificates are required when<br>the same right of way, or when several Railro   |
| nsurance policies and corresponding certific<br>on behalf of the Railroad. Separate insurance<br>han one Railroad Company is operating on to<br>companies are involved and operate on theit<br>No direct compensation will be made to the<br>shown below or any deductibles. These cost  | Contractor for providing the insurance covera<br>s are incidental to the various bid items.  |
| nsurance policies and corresponding certific<br>on behalf of the Railroad. Separate insurance<br>han one Railroad Company is operating on to<br>companies are involved and operate on theit<br>No direct compensation will be made to the<br>shown below or any deductibles. These cost  | te policies and certificates are required when<br>the same right of way, or when several Railro<br>r own separate right of ways.<br>Contractor for providing the insurance covera  |
| nsurance policies and corresponding certific<br>on behalf of the Railroad. Separate insurance<br>han one Railroad Company is operating on to<br>companies are involved and operate on theit<br>No direct compensation will be made to the<br>shown below or any deductibles. These cost  | the policies and certificates are required when the same right of way, or when several Railro rown separate right of ways.  Contractor for providing the insurance coverates are incidental to the various bid items.  |
| nsurance policies and corresponding certification behalf of the Railroad. Separate insurance han one Railroad Company is operating on the Companies are involved and operate on their No direct compensation will be made to the shown below or any deductibles. These cost  | the policies and certificates are required when the same right of way, or when several Railro r own separate right of ways.  Contractor for providing the insurance coverates are incidental to the various bid items.  Calated Limits  Amount of Coverage (Minimum)   |
| nsurance policies and corresponding certifican behalf of the Railroad. Separate insurance han one Railroad Company is operating on the companies are involved and operate on their No direct compensation will be made to the shown below or any deductibles. These cost   | the policies and certificates are required when the same right of way, or when several Railro r own separate right of ways.  Contractor for providing the insurance coverates are incidental to the various bid items.  Calated Limits  Amount of Coverage (Minimum)   |
| nsurance policies and corresponding certification behalf of the Railroad. Separate insurance than one Railroad Company is operating on the Companies are involved and operate on their No direct compensation will be made to the shown below or any deductibles. These cost the Companies are involved and operate on their No direct compensation will be made to the shown below or any deductibles. These cost the Compensation workers Compensation   | the policies and certificates are required when the same right of way, or when several Railror rown separate right of ways.  Contractor for providing the insurance coverates are incidental to the various bid items.  Calated Limits  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,000  |
| nsurance policies and corresponding certifican behalf of the Railroad. Separate insurance han one Railroad Company is operating on the Companies are involved and operate on their No direct compensation will be made to the shown below or any deductibles. These cost    Esc  | the policies and certificates are required when the same right of way, or when several Railro r own separate right of ways.  Contractor for providing the insurance coverates are incidental to the various bid items.  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,00  \$2,000,000 / \$4,000,000  |
| nsurance policies and corresponding certifican behalf of the Railroad. Separate insurance han one Railroad Company is operating on the Companies are involved and operate on their No direct compensation will be made to the shown below or any deductibles. These cost    Esc  | the policies and certificates are required when the same right of way, or when several Railron rown separate right of ways.  Contractor for providing the insurance coverals are incidental to the various bid items.  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,00  \$2,000,000 / \$4,000,000  \$2,000,000  |
| nsurance policies and corresponding certification behalf of the Railroad. Separate insurance han one Railroad Company is operating on the companies are involved and operate on their shown below or any deductibles. These cost are shown below or any deductibles.  | the policies and certificates are required when the same right of way, or when several Railror rown separate right of ways.  Contractor for providing the insurance coveras are incidental to the various bid items.  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,00  \$2,000,000 / \$4,000,000  tective Liability Limits  \$2,000,000 / \$6,000,            |
| nsurance policies and corresponding certification behalf of the Railroad. Separate insurance han one Railroad Company is operating on the Companies are involved and operate on their No direct compensation will be made to the shown below or any deductibles. These cost    Esc  Type of Insurance  Workers Compensation  Commercial General Liability  Business Automobile  Railroad Pro  Not Required  Non - Bridge/Typical Maintenance Projection of the properties of the properties of the projection of t | the policies and certificates are required when the same right of way, or when several Railron rown separate right of ways.  Contractor for providing the insurance coveras are incidental to the various bid items.  Amount of Coverage (Minimum)  \$500,000 / \$500,000 / \$500,00  \$2,000,000 / \$4,000,000  tective Liability Limits  ects. \$2,000,000 / \$6,000, sand |

| ✓ Not Required   |  |
|--|--|
| ☐ Required. Contact Information for Construction Inspection: |  |
|  |  |
|  |  |
|  |  |
| UI CONSTRUCTION WORK TO BE REPERBATED BY THE DAIL BOAD       |  |
| III. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD       |  |
| ☐ Required.  |  |

#### NSURANCE REQUIREMENTS

| Escalated Limits             |                                   |  |  |  |
|------------------------------|-----------------------------------|--|--|--|
| Type of Insurance            | Amount of Coverage (Minimum)      |  |  |  |
| Workers Compensation         | \$500,000 / \$500,000 / \$500,000 |  |  |  |
| Commercial General Liability | \$2,000,000 / \$4,000,000         |  |  |  |
| Business Automobile          | \$2,000,000                       |  |  |  |
|                              |                                   |  |  |  |

| Railroad Protective Liability Limits  |                            |  |  |  |
|---|----------------------------|--|--|--|
| ☐ Not Required  |                            |  |  |  |
| <ul> <li>□ Non - Bridge/Typical Maintenance Projects.</li> <li>Includes repairs to overpass/underpass and culvert structures</li> </ul> | \$2,000,000 / \$6,000,000  |  |  |  |
| ☐ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures                                 | \$5,000,000 / \$10,000,000 |  |  |  |
| □ Other:  |                            |  |  |  |

#### V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

| ☐ Not Required   |  |  |  |  |
|--|--|--|--|--|
| ☑ Required: UPRR Maintenance Consent Letter. TxDOT to assist     |  |  |  |  |
| $\ \square$ Required: TxDOT to assist in obtaining the UPRR CROE |  |  |  |  |
| ☐ Required: Contractor to obtain                                 |  |  |  |  |
| ☐ BNSF:  |  |  |  |  |
| ☐ CPKCR https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12   |  |  |  |  |
| ☐ Other Railroads:   |  |  |  |  |

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

#### VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

#### VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

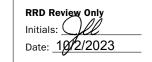
Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### **VIII. SUBCONTRACTORS**

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

#### IX. EMERGENCY NOTIFICATION

| Call: [Ul | of Railroad Emergency               |  |
|-----------|-------------------------------------|--|
|           |                                     |  |
| Railroad  | Emergency Line at: 800 - 848 - 8715 |  |
|           | n: DOT _794704B                     |  |
| RR Mile   | post: 0131.780                      |  |
| Subdivis  | sion: MINEOLA                       |  |





Division

### **RAILROAD SCOPE OF WORK**

| FILE: TT-SCOP | e-of-work.pdf | DN: TX | DOT  | CK:      | DW: | CK:        |
|---------------|---------------|--------|------|----------|-----|------------|
| © TxDOT       | June 2014     | CONT   | SECT | JOB      |     | HIGHWAY    |
| 0/0000        | REVISIONS     | 0095   | 08   | 021, Etc | 9   | US 80, Etc |
| 6/2023        |               | DIST   |      | COUNTY   |     | SHEET NO.  |
|               |               | TYL    |      | SMITH, E | Etc | 100        |

#### 1.01 DESCRIPTION

This project includes construction work within the right of way and/or properties of the Railroad and adjacent to its tracks, wire lines and other facilities. These sheets describe the minimum special requirements for coordination with the Railroad when working upon, over or under Railroad Right of Way or when impacting current or future Railroad operations. Coordinate with the Railroad while performing the work outlined herein, and afford the same cooperation with the Railroad as with TxDOT. Complete all submittals and work in accordance with TxDOT Standard Specifications, Railroad Guidelines and AREMA recommendations as modified by these minimum special requirements or as directed in writing by the Railroad Designated Representative.

For purposes of this project, the Railroad Designated Representative is the person or persons designated by the Railroad Manager of Industry and Public Projects to handle specific tasks related to the project.

#### 1.02 REQUEST FOR INFORMATION / CLARIFICATION

Submit Requests for Information ("RFI") involving work within any Railroad Right of Way to the TxDOT Engineer. The TxDOT Engineer will submit the RFI to the Railroad Designated Representative for review and approval for RFI's corresponding to work within Railroad Right of Way. Allow six (6) weeks total time for review and approval, which includes four (4) weeks for review and approval by the Railroad.

#### 1.03 PLANS / SPECIFICATIONS

TxDOT has received written Railroad approval of the plans and specifications for this project. Any revisions or changes in the plans after award of the Contract must have the approval of TxDOT and the Railroad.

#### PART 2 - UTILITIES AND FIBER OPTIC

Construct all utility installations in accordance with current AREMA recommendations, Railroad, TxDOI and owning utility specifications and requirements. Railroad general guidelines can be found on the Railroad website or by contacting the Railroad Designated Representative.

#### PART 3 - CONSTRUCTION

#### 3.01 GENERAL

- A. Perform all work in compliance with all applicable Railroad, Federal Railroad Administration (FRA), and TxDOT rules and regulations. Arrange and conduct work in a manner that does not endanger or interfere with the safe operation of the tracks and property of the Railroad and the traffic moving on such tracks, or the wires, signals and other property of the Railroad, its tenants or licensees, at or in the vicinity of the Work. The safe operation of railroad train movements takes precedence over any work to be performed by the Contractor. The Contractor is responsible for train delay cost and lost revenue claims due to any delays or interruption of train operations resulting from Contractor's construction or other activities.
- B. Construction activities within 15 feet of the operational tracks will only be allowed if absolutely necessary and the Railroad's Designated Representative grants approval. Construction activities within 15 feet of the operational track(s) preferably allow the tracks to stay operational. In such cases, coordination and approval by the Railroad Track Manager is required with regard to schedule, flagging, and slow orders. See Sections 3.07 and 3.08 for additional information.
- C. Provide track protection for all work equipment (including rubber tired equipment) operating within 25 feet from nearest rail. When not in use, keep Contractor machinery and materials at least 50 feet from the Railroad's nearest track.
- D. Vehicular crossings of railroad track are allowed only at existing crossings, or haul road crossings developed with Railroad approval.
- E. The Contractor is also advised that new railroad facilities within the project may be built by the Railroad. If applicable, these facilities are delineated in the plans. Be aware of the limits of responsibilities and coordinate efforts with the Railroad and TxDOT.
- F. Railroad requirements do not allow work within 50 feet of track centers when a train passes the work site and all personnel must clear the area within 50 feet of the track centerline and secure all equipment. Additional allowances may be pursued as outlined in 3.02 and 3.03.
- G. All permanent clearances shall be verified before project closing.

#### 3.02 RAILROAD OPERATIONS

- A. Trains and/or equipment are expected on any track, at any time, in either direction. Become familiar with the train schedules in this location and structure bid assuming intermittent track windows in this period, as defined in Paragraph B that follows.
- B. All railroad tracks within and adjacent to the contract site are active, and rail traffic over these facilities shall be maintained throughout the Project. Activities may include both through moves and switching moves to local customers. railroad traffic and operations will occur continuously throughout the day and night on these tracks and shall be maintained at all times as defined herein. Coordinate and schedule the work so that construction activities do not interfere with railroad operations.
- C. Coordinate work windows with TxDOT and the Railroad's Designated Representative. Types of work windows include Conditional Work Windows and Absolute Work Windows, as defined below:
  - 1. Conditional Work Window: A Conditional Work Window is a period of time that railroad operations have priority over construction activities. When construction activities may occur on and/or adjacent to the railroad tracks within 25 feet of the nearest track, a railroad flag person will be required. At the direction of the railroad flag person, upon approach of a train, and when trains are present on the tracks, the tracks must be cleared (i.e., no construction equipment, materials or personnel within 25 feet, or as directed by the Railroad Designated Representative, from the tracks). Conditional Work Windows are available for the Project.
  - 2. Absolute Work Window: An Absolute Work Window is a period of time that construction activities are given priority over railroad operations. During this time frame, the designated railroad track(s) will be inactive for train movements and may be fouled by the Contractor. At the end of an Absolute Work Window, the railroad tracks and/or signals must be completely operational for train operations and all Railroad, Public Utilities Commission (PUC) and FRA requirements, codes and regulations for operational tracks must be satisfied. In the situation where the operating tracks and/or signals have been affected, the Railroad will perform inspections of the work prior to placing that track back into service. Railroad flag persons will be required for construction activities requiring an Absolute Work Window. Absolute Work Windows will not generally be granted. Any request will require a detailed explanation for Railroad review.

#### 3.03 RIGHT OF ENTRY, ADVANCE NOTICE AND WORK STOPPAGES

- A. Do not perform any work within Railroad Right of Way without a valid executed Right of Entry Agreement if required on this project.
- B. Give advance notice to the Railroad as required in the "Contractor's Right of Entry Agreement" before commencing work in connection with construction upon or over Railroad Right of Way and observe the Railroad's rules and regulations with respect thereto.
- C. Perform all work upon Railroad Right of Way in a manner to avoid interference with or endanger the operations of the Railroad.

  Whenever work may affect the operations or safety of trains, submit the work method to the Railroad Designated Representative for approval. Approval does not relieve the Contractor from liability. Do not commence any work which requires flagging service or inspection service until the flagging protection required by the Railroad is available at the job site. See Section 3.15 for railroad flagging requirements.
- D. Make requests in writing for both Absolute and Conditional Work Windows, at least 30 days in advance of any work. Include in the written request:
  - 1. Exactly what the work entails.
- The days and hours that work will be performed.
   The exact location of work, and proximity to the tracks.
- 4. The type of window requested and the amount of time requested.
- 5. The designated contact person.

Provide a written confirmation notice to the Railroad at least 48 hours before commencing work in connection with approved work windows when work is within 25 feet of nearest rail. Perform all work in accordance with previously approved work plans.

E. Make provisions to protect operations and property of the Railroad should a condition arising from, or in connection with the work, require immediate and unusual action. If in the judgment of the Railroad Designated Representative such provisions are insufficient, the Railroad Designated Representative may require or provide such provisions as deemed necessary. In any event, such provisions shall be at the Contractor's expense and without cost to the Railroad or TxDOT. The Railroad or TxDOT shall have the right to order the Contractor to temporarily cease operations in the event of an emergency or, if in the opinion of the Railroad Designated Representative, the Contractor's operations could endanger railroad operations. In the event of such an order, immediately notify TxDOT of the order.

#### 3. 04 INSURANCE

Do not begin work upon or over Railroad Right of Way until furnishing the Railroad with the insurance policies, binders, certificates and endorsements required by the "Contractor's Right of Entry Agreement", and until the Railroad Designated Representative has advised TxDOT that such insurance is in accordance with the Agreement.

#### 3.05 RAILROAD SAFETY ORIENTATION

A. Complete the railroad course "Orientation for Contractor's Safety", and maintain current registration prior to working on railroad property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

"UPRR, BNSF, KCS/TEXMEX will not accept on-track safety training certificates from other railroads. Refer to Railroad specific contractor right of entry for training information."

 Know and follow the "Contractor's Right of Entry Agreement" EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

#### 3.06 COOPERATION

The Railroad will cooperate with Contractor so that work may be conducted in an efficient manner, and will cooperate with Contractor in enabling use of Railroad Right of Way in performing the work.

### 3.07 MINIMUM CONSTRUCTION CLEARANCES FOR FALSEWORK AND OTHER TEMPORARY STRUCTURES

Abide by the following minimum temporary clearances during the course of construction: A. 15' - 0" (BNSF) (UPRR) and 14' - 0" (KCS) horizontal from

centerline of track
B. 22' (KCS) and 21' - 6" (UPRR & BNSF) vertically above top of rail.

For construction clearance less than listed above, obtain local Railroad Operating Unit review and approval.

#### 3.08 APPROVAL OF REDUCED CLEARANCES

- A. Maintain minimum track clearances during construction as specified in Section 3.07.
- B. Submit any proposed infringement on the specified minimum clearances to the Railroad Designated Representative through TxDOT at least 30 days in advance of the work. Do not proceed with such infringement without written approval by the Railroad Designated Representative.
- C. Do not commence work involving an approved infringement without receiving written assurance from the Railroad Designated Representative that arrangements have been made for any necessory flagging service.

SHEET 1 OF 2

Texas Department of Transportation

RAILROAD REQUIREMENTS

FOR NON-BRIDGE

CONSTRUCTION PROJECTS

#### 3.09 MAINTENANCE OF RAILROAD FACILITIES

- A. Maintain all ditches and drainage structures free of silt or other obstructions resulting from Contractor's operations. Repair eroded areas and any other damage within Railroad Right of Way and repair any other damage to the property of the Railroad, or its tenants.
- B. Perform all such maintenance and repair of damages due to the Contractors's operations at Contractor's expense.
- C. Submit a proposed method of erosion control for review by the Railroad prior to beginning any grading on the project site.
  Comply with all applicable local, state and federal regulations when developing and implementing such erosion control.

#### 3.10 SITE INSPECTIONS BY RAILROAD'S DESIGNATED REPRESENTATIVE

- A. In addition to the office reviews of construction submittals, site inspections may be performed by the Railroad Designated Representative at significant points during construction, including the following if applicable:
- Pre-construction meetings.
   Pile driving/drilling of caissons or drilled shafts.
   Reinforcement and concrete placement for railroad bridge
- substructure and/or superstructure.
- Erection of precast concrete or steel bridge superstructure.
   Placement of waterproofing (prior to placing ballast on bridge deck). 6. Completion of the bridge structure.
- B. Site inspection is not limited to the milestone events listed above. Site visits to check progress of the work may be performed at any time throughout the construction as deemed necessary by the Railroad.
- C. Provide a detailed construction schedule, including the proposed temporary horizontal and vertical clearances and construction sequence for all work to TxDOT for submittal to the Railroad Designated Representative for review prior to commencement of work. the anticipated dates when the above listed events will occur.

  Update this schedule for the above listed events as necessary and each month at a minimum to allow the Railroad to schedule site inspections.

#### 3.11 RAILROAD REPRESENTATIVES

Railroad representatives, conductors, flag person or watch person will be provided by the Railroad at expense of TxDOT to protect Railroad facilities, property and movements of its trains or engines. In general, the Railroad will furnish such personnel or other protective services as follows:

- A. When any part of any equipment is standing or being operated within 25 feet, measured horizontally, from nearest rail of any track on which trains may operate, or when any object is off the ground and any dimension thereof could extend inside the 25 foot limit, or when any erection or construction activities are in progress within such limits, regardless of elevation above or below track.
- B. For any excavation below elevation of track subgrade if, in the opinion the Railroad Designated Representative, track or other railroad facilities may be subject to settlement or movement.
- C. During any clearing, grubbing, excavation or grading in proximity to railroad facilities, which, in the opinion of the Railroad Designated Representative, may endanger railroad facilities or operations.
- D. During any Contractor's operations when, in the opinion of the Railroad Designated Representative, railroad facilities, including, but not limited to, tracks, buildings, signals, wire lines, or pipe lines, may be endangered.
- E. Arrange with the Railroad Designated Representative to provide the adequate number of flag persons to accomplish the work.

#### 3.12 COMMUNICATIONS AND SIGNAL LINES

If required, the Railroad will rearrange its communications and signal lines, its grade crossing warning devices, train signals and tracks, and facilities that are in use and maintained by the Railroad's forces in connection with its operation at expense of TxDOI. This work by the Railroad will be done by its own forces and it is not a part of the Work worder this Contract. Work under this Contract.

#### 3.13 TRAFFIC CONTROL

Coordinate any operations that control traffic across or around railroad facilities with the Railroad Designated Representative.

#### 3.14 CONSTRUCTION EXCAVATIONS AND BORING ACTIVITIES UNDER TRACK

- A. Take special precaution and care in connection with excavating and shoring. Excavations for construction of footings, piers, columns, walls or other facilities that require shoring shall comply with requirements of TxDOT, OSHA, AREMA and Railroad Guidelines for Temporary Shoring".
- B. The project plans indicate whether there are fiber optic lines or other such telecommunications systems that require consideration. Regardless, contact the necessary call center to determine if such cable systems are present:

UPRR 1-800-336-9193 7:00 AM to 9:00 PM CST Monday-Friday except holidays, staffed 24 hrs/day for emergencies 48 hrs notice required

BNSF 1-800-533-2891 24 hour number 5 working days notice required

KCS 1-800-344-8377 Texas One Call, a 24 hour number 48 hrs notice required, excluding weekends and holidays

If a telecommunications system is buried anywhere on or near railroad property, coordinate with TxDOT, the Railroad and the Telecommunication Company(ies) to arrange for relocation or protective measures prior to beginning work on or near railroad property. Refer to the project General Notes for additional information.

C. Projects involving a boring or jack and bore operation under track such as drainage pipes or culverts and utilities require an installation plan reviewed and approved by the Railroad and TxDOT prior to proceeding with such construction. A railroad inspector and contractor assisted monitoring of ground and track movement is required to maintain safe passage of rail traffic. Stop installation and do not allow passage of trains if movements in excess of  $\frac{1}{4}$  inch vertical or horizontal is detected in the tracks. Immediately repair the damage to the satisfaction of TxDOT and the Railroad before proceeding,

#### 3.15 RAILROAD FLAGGING

Per the Right of Entry Agreement for flagging, notify the Railroad Representative at least 10 working days in advance of Contractor's work and at least 30 working days in advance of any Contractor's work in which any person or equipment will be within 25 feet of nearest rail or as specified in the Contractor Right of Entry (CROE).

#### 3.16 CLEANING OF RIGHT-OF-WAY

When work is complete, remove all tools, implements, and other materials brought into Railroad Right of Way and leave the right of Way in a clean and presentable condition to the satisfaction of TxDOT and the Railroad.

SHEET 2 OF 2



### RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS

DN: TXDOT CK: TXDOT DW: TXDOT CK: TXDC TxDOT October 2018 CONT SECT JOB 0095 08 021,E+c US 80,E+c March 2020 TYL SMITH. E+c

USACE: U.S. Army Corps of Engineers

USFWS: U.S. Fish and Wildlife Service

-07-14 ADDED NOTE SECTION IV

TYL SMITH. E+c

Nationwide Permit

NOI: Notice of Intent

Sediment Bosins

Grassy Swales

#### A. GENERAL SITE DATA

1. PROJECT LIMITS:

SEE QUANTITY SUMMARY SHEETS

PROJECT LOCATION:

SEE QUANTITY SUMMARY SHEETS

PROJECT COORDINATES:

2. PROJECT SITE MAPS:

\* PROJECT LOCATION MAP:

\* DRAINAGE PATTERNS:

\* SLOPES ANTICIPATED AFTER MAJOR GRADINGS OR

AREAS OF SOIL DISTURBANCE:

\* LOCATION OF EROSION AND SEDIMENT CONTROLS:

\* SURFACE WATERS AND DISCHARGE LOCATIONS:

\* PROJECT SPECIFIC LOCATIONS: TO BE SPECIFIED BY THE PROJECT FIELD OFFICE DURING CONSTRUCTION AND LOCATED IN THE PROJECT SW3P FILE. REFERENCE ITEM #10 BELOW

**LOCATION MAP** 

3. PROIECT DESCRIPTION:

FOR THE CONSTRUCTION OF SEALCOAT OF AN EXISTING ROADWAY, CONSISTING OF SURFACE TREATMENT, AND PAVEMENT MARKINGS. SEE LOCATION TABLE FOR LIMITS.

4. MAJOR SOIL DISTURBING ACTIVITIES:

5. EXISTING CONDITION OF SOIL & VEGETATIVE

COVER AND % OF EXISTING VEGETATIVE COVER.

THE EXISTING SOIL SURROUNDING THE PAVEMENT IS FINE SANDY LOAM AND LOAMY FINE SAND WHICH HAS APPROXIMATELY 90% OF GOOD GRASS COVERING.

6. TOTAL PROJECT AREA: 1079.83 ACRES

7.TOTAL AREA TO BE DISTURBED: O ACRES

8. WEIGHTED RUNOFF COEFFICIENT

BEFORE CONSTRUCTION: 0.40 AFTER CONSTRUCTION: 0.40

9. NAME OF RECEIVING WATERS: (SEGMENT NUMBER OF RECEIVING WATERS)

THE RECEIVING WATER BODIES FOR THIS PROJECT VARIES.

FOR PROJECTS DISTURBING ONE ACRE OR MORE, 10. PROIECT SW3P FILE:

TXDOT WILL MAINTAIN AN SW3P FILE WITH ALL PERTINENT ENVIRONMENTAL DOCUMENTS, CORRESPONDENCE, ETC. AT THE PROJECT FIELD OFFICE. IF NO FIELD OFFICE IS AVAILABLE THEN THE SW3P FILE SHALL BE KEPT IN THE INSPECTOR'S TRUCK.

#### **B. EROSION AND SEDIMENT CONTROLS**

#### 1. SOIL STABILIZATION PRACTICES:

\_\_\_\_ TEMPORARY SEEDING \_\_\_\_ PERMANENT PLANTING, SODDING, OR SEEDING MUI CHING

\_\_\_\_ SOIL RETENTION BLANKET BUFFER ZONES

PRESERVATION OF NATURAL RESOURCES

OTHER: N/A

#### 2. STRUCTURAL PRACTICES:

SILT FENCES
ROCK FILTER DAMS \_\_\_\_ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES DIVERSION, INTERCEPTOR, OR PERIMETER SWALES DIVERSION DIKE AND SWALE COMBINATIONS \_\_\_\_ PIPE SLOPE DRAINS \_\_\_\_ PAVED FLUMES ROCK BEDDING AT CONSTRUCTION EXIT TIMBER MATTING AT CONSTRUCTION EXIT \_\_\_ CHANNEL LINERS SEDIMENT TRAPS \_\_\_ SEDIMENT BASINS \_\_\_\_ STORM INLET SEDIMENT TRAP \_\_\_ STONE OUTLET STRUCTURES \_\_\_ CURBS AND GUTTERS STORM SEWERS \_\_\_\_ VELOCITY CONTROL DEVICES

OTHER: N/A

#### 3. STORM WATER MANAGEMENT:

STORM WATER DRAINAGE WILL BE PROVIDED BY

THIS SYSTEM WILL CARRY THE DRAINAGE WITHIN THE RIGHT-OF-WAY TO

4. STORM WATER MANAGEMENT ACTIVITIES: (SEQUENCE OF CONSTRUCTION)

N/A

#### 5. NON-STORM WATER DISCHARGES:

FILTER NON-STORM WATER DISCHARGES, OR HOLD RETENTION BASINS, BEFORE BEING ALLOWED TO MIX WITH STORM WATER. THESE DISCHARGES CONSIST OF NON-POLLUTED GROUND WATER, SPRING WATER, FOUNDATION AND/OR FOOTING DRAIN WATER; AND WATER USED FOR DUST CONTROL, PAVEMENT WASHING AND VEHICLE WASHWATER CONTAINING NO DETERGENTS.

#### C. OTHER REQUIREMENTS & PRACTICES

#### 1. MAINTENANCE:

MAINTENANCE WILL BE PERFORMED AS INDICATED ON FIELD INSPECTION AND MAINTENANCE REPORT FORM 2118.

#### 2. <u>INSPECTION</u>:

INSPECTION WILL BE PERFORMED AS INDICATED ON FIELD INSPECTION AND MAINTENANCE REPORT FORM 2118.

ALL WASTE MATERIALS WILL BE COLLECTED, STORED ANDDISPOSED OF IN A LIDDED DUMPSTER IN A LEGAL AND PROPER MANNER. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

#### 4. HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS. PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR MUST BE CONTACTED IMMEDIATELY.

#### 5. <u>SANITARY WASTE:</u>

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR

#### OFFSITE VEHICLE TRACKING:

\_ HAUL ROADS DAMPENED FOR DUST CONTROL X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN X EXCESS DIRT ON ROAD REMOVED DAILY

\_\_\_\_ STABILIZED CONSTRUCTION ENTRANCE

OTHER: N/A

DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL SEDIMENT FROM ENTERING RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WATERBODY OR STREAMBED.

CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED TO MINIMIZE THE RUNOFF OF POLLUTANTS.



10/04/2023



STORM WATER **POLLUTION PREVENTION** PLAN (SW3P) (SEALCOAT)

|      |      | 1 OF 2    |           |
|------|------|-----------|-----------|
| CONT | SECT | JOB       | HIGHWAY   |
| 0095 | 08   | 021,Etc   | US 80,Etc |
| DIST |      | COUNTY    | SHEET NO. |
| TYI  |      | SMITH Ftc | 104       |

#### A. GENERAL SITE DATA

1. PROJECT LIMITS:

SEE QUANTITY SUMMARY SHEETS

**LOCATION MAP** 

PROJECT LOCATION:

SEE QUANTITY SUMMARY SHEETS

PROJECT COORDINATES:

2. PROJECT SITE MAPS:

\* PROJECT LOCATION MAP:

\* DRAINAGE PATTERNS:

\* SLOPES ANTICIPATED AFTER MAJOR GRADINGS OR

AREAS OF SOIL DISTURBANCE:

\* LOCATION OF EROSION AND SEDIMENT CONTROLS:

\* SURFACE WATERS AND DISCHARGE LOCATIONS:

\* PROJECT SPECIFIC LOCATIONS: TO BE SPECIFIED BY THE PROJECT FIELD OFFICE DURING CONSTRUCTION AND LOCATED IN THE PROJECT SW3P FILE. REFERENCE ITEM #10 BELOW

3. PROJECT DESCRIPTION:

FOR THE CONSTRUCTION OF TRAFFIC CONTROL DEVICES CONSISTING OF THERMOPLASTIC, PROFILE & MILLED PAVEMENT MARKINGS. SEE TABULATION OF PROJECTS FOR LIMITS.

4. MAJOR SOIL DISTURBING ACTIVITIES:

5. EXISTING CONDITION OF SOIL & VEGETATIVE

COVER AND % OF EXISTING VEGETATIVE COVER

THE EXISTING SOIL SURROUNDING THE PAVEMENT IS FINE SANDY LOAM AND LOAMY FINE SAND WHICH HAS APPROXIMATELY 90% OF GOOD GRASS COVERING.

6. TOTAL PROJECT AREA: 1,096.53 ACRES

7.TOTAL AREA TO BE DISTURBED: O ACRES

8 WEIGHTED RUNOFF COFFFICIENT

BEFORE CONSTRUCTION: 0.40 AFTER CONSTRUCTION 0.40

9. NAME OF RECEIVING WATERS: (SEGMENT NUMBER OF RECEIVING WATERS)

THE RECEIVING WATER BODIES FOR THIS PROJECT VARIES.

10. PROJECT SW3P FILE:

FOR PROJECTS DISTURBING ONE ACRE OR MORE, TXDOT WILL MAINTAIN AN SW3P FILE WITH ALL PERTINENT ENVIRONMENTAL DOCUMENTS, CORRESPONDENCE, ETC. AT THE PROJECT FIELD OFFICE. IF NO FIELD OFFICE IS AVAILABLE THEN THE SW3P FILE SHALL BE KEPT IN THE INSPECTOR'S TRUCK,

09/21/2023

#### **B. EROSION AND SEDIMENT CONTROLS**

#### 1. SOIL STABILIZATION PRACTICES:

\_\_\_\_ TEMPORARY SEEDING \_\_\_\_ PERMANENT PLANTING, SODDING, OR SEEDING MUI CHING SOIL RETENTION BLANKET

BUFFER ZONES

PRESERVATION OF NATURAL RESOURCES

OTHER: N/A

#### 2. STRUCTURAL PRACTICES:

\_\_\_ SILT FENCES \_\_\_\_ ROCK FILTER DAMS \_\_\_ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES DIVERSION, INTERCEPTOR, OR PERIMETER SWALES DIVERSION DIKE AND SWALE COMBINATIONS \_\_\_\_ PIPE SLOPE DRAINS PAVED FLUMES ROCK BEDDING AT CONSTRUCTION EXIT TIMBER MATTING AT CONSTRUCTION EXIT CHANNEL LINERS SEDIMENT TRAPS \_\_\_ SEDIMENT BASINS STORM INLET SEDIMENT TRAP \_\_\_ STONE OUTLET STRUCTURES \_\_\_ CURBS AND GUTTERS STORM SEWERS \_\_\_\_ VELOCITY CONTROL DEVICES

OTHER: N/A

#### 3. STORM WATER MANAGEMENT:

STORM WATER DRAINAGE WILL BE PROVIDED BY

THIS SYSTEM WILL CARRY THE DRAINAGE WITHIN THE RIGHT-OF-WAY TO

4. STORM WATER MANAGEMENT ACTIVITIES: (SEQUENCE OF CONSTRUCTION)

5. NON-STORM WATER DISCHARGES:

FILTER NON-STORM WATER DISCHARGES, OR HOLD RETENTION BASINS, BEFORE BEING ALLOWED TO MIX WITH STORM WATER. THESE DISCHARGES CONSIST OF NON-POLLUTED GROUND WATER, SPRING WATER, FOUNDATION AND/OR FOOTING DRAIN WATER; AND WATER USED FOR DUST CONTROL, PAVEMENT WASHING AND VEHICLE WASHWATER CONTAINING NO DETERGENTS.

#### C. OTHER REQUIREMENTS & PRACTICES

#### 1. MAINTENANCE:

MAINTENANCE WILL BE PERFORMED AS INDICATED ON FIELD INSPECTION AND MAINTENANCE REPORT FORM 2118.

#### 2. INSPECTION:

INSPECTION WILL BE PERFORMED AS INDICATED ON FIELD INSPECTION AND MAINTENANCE REPORT FORM 2118.

ALL WASTE MATERIALS WILL BE COLLECTED, STORED ANDDISPOSED OF IN A LIDDED DUMPSTER IN A LEGAL AND PROPER MANNER. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

#### 4. HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS. PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR MUST BE CONTACTED IMMEDIATELY.

#### 5. <u>SANITARY WASTE:</u>

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

#### OFFSITE VEHICLE TRACKING:

HAUL ROADS DAMPENED FOR DUST CONTROL X LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN

X EXCESS DIRT ON ROAD REMOVED DAILY

\_\_\_ STABILIZED CONSTRUCTION ENTRANCE

OTHER: N/A

DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL SEDIMENT FROM ENTERING RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WATERBODY OR STREAMBED.

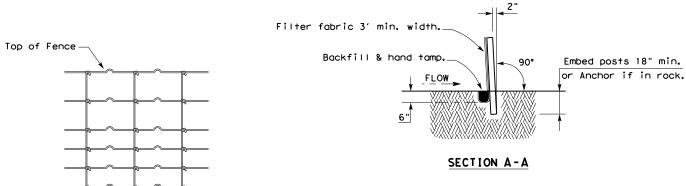
CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED TO MINIMIZE THE RUNOFF OF POLLUTANTS.





STORM WATER **POLLUTION PREVENTION** PLAN (SW3P) (THERMO)

|    |      | SHEET 2   | ? OF 2    |
|----|------|-----------|-----------|
| NT | SECT | JOB       | HIGHWAY   |
| 95 | 08   | 021,Etc   | US 80,Etc |
| ST | ,    | COUNTY    | SHEET NO. |
| YL |      | SMITH,Etc | 105       |



#### HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

#### SEDIMENT CONTROL FENCE USAGE GUIDELINES

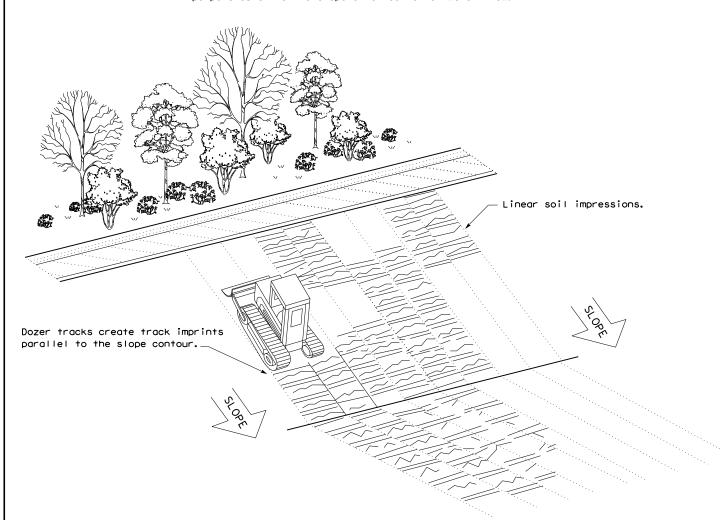
A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

#### **LEGEND**

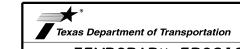
Sediment Control Fence —(SCF)—

#### **GENERAL NOTES**

- 1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
- 2. Perform vertical tracking on slopes to temporarily stabilize soil.
- 3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
- 4. Do not exceed 12" between track impressions.
- 5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING



TEMPORARY EROSION. SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING

EC(1) - 16

| ILE: ec116       | DN: TxD | OT                  | ck: KM   | DW:     | VP | DN/CK: LS |
|------------------|---------|---------------------|----------|---------|----|-----------|
| TxDOT: JULY 2016 | CONT    | NT SECT JOB HIGHWAY |          | HIGHWAY |    |           |
| REVISIONS        | 0095    | 08                  | 021,Et   | С       | US | 80,Etc    |
|                  | DIST    |                     | COUNTY   |         |    | SHEET NO. |
|                  | TYL     |                     | SMITH, E | E†c     | :  | 106       |

ያ ያ

made sults

warranty of any kind lats or for incorrect

the "Texas Engineering Practice Act". No conversion of this standard to other form

this standard is governed by es no responsibility for the

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT<sup>2</sup>. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.