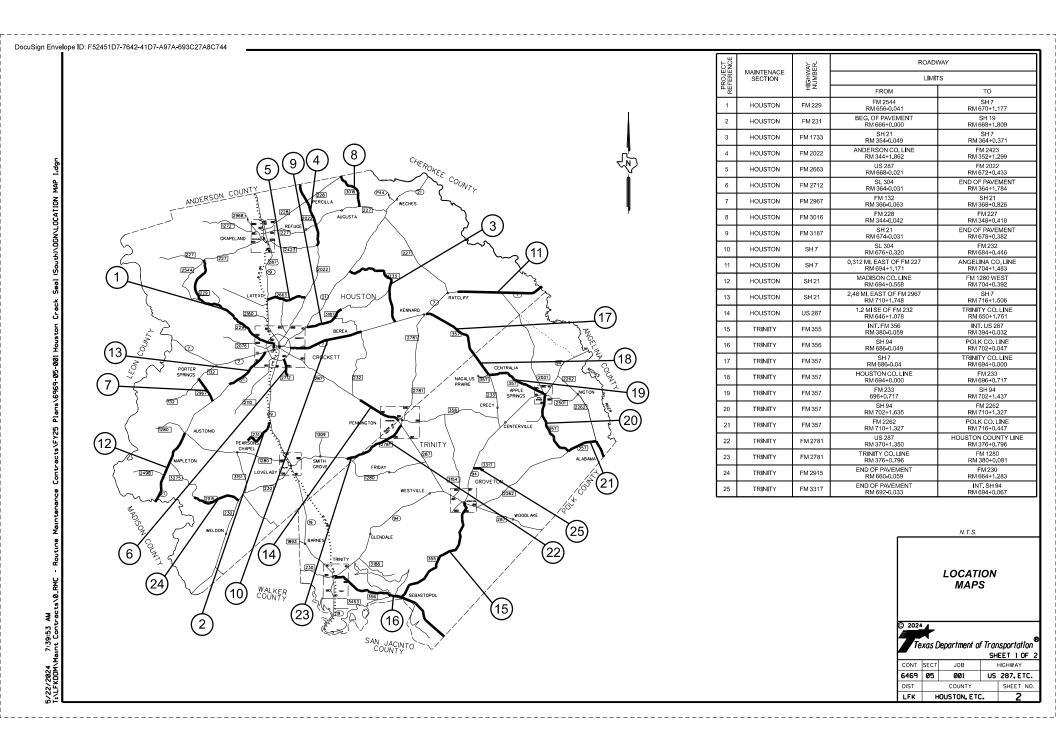
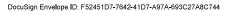
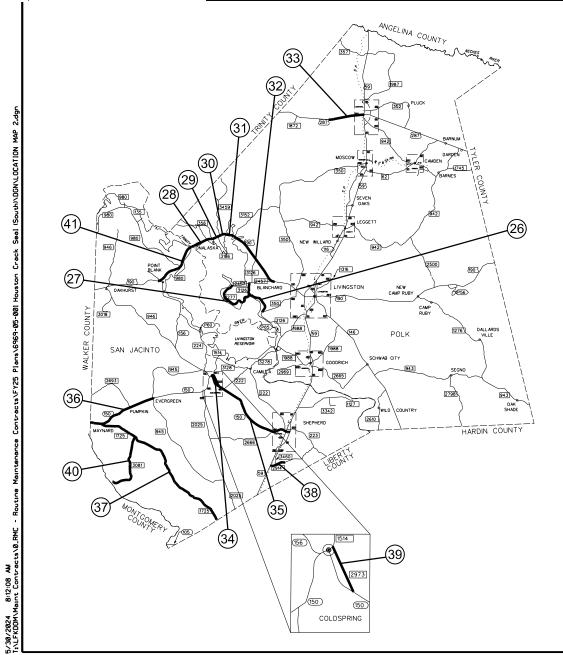
| Sign Envelope ID. F | 52451D7-7642-41D7-A97. INDEX O | F SHEETS | STATE OF TEXAS DEPARTMENT OF TRANSPORTATION | FINA PROJECT NO. SHEET DIVISION RINC 6469-05-001 1 STATE DISTRICT COUNTY TEXAS LFK HOUSTON, ETC. CONTROL SECTION JOB WICHWAY NO. |
|---|--|--|--|---|
| | SHEET NO. | DESCRIPTION | PLANS OF PROPOSED | 6469 05 001 US 287, ET |
| бр | | GENERAL | STATE HIGHWAY ROUTINE MAINTENANCE CONTRACT | |
| te | 1 | TITLE SHEET | | |
| ap la | 2-3 | LOCATION MAPS | TYPE OF WORK: | |
| Ë. | 4, 4A-4C | GENERAL NOTES | CLEANING AND SEALING CRACKS (SOUTH) | |
| LNW. | 5 | ESTIMATE & QUANTITY SHEET | | |
| 88 t. | 6-8 | QUANTITY SUMMARIES | RMC 6469-05-001 | |
| rth)/DGN/TitleShe | | TRAFFIC CONTROL PLAN | US 287, ETC. | |
| GN | # 9 - 20 # 21 | BC(1)-21THRU BC(12)-21 | HOUSTON, ETC. | |
| | # 21 # 22 | TCP(1-1)-18 TCP(1-2)-18 | LIMITS: VARIOUS LOCATIONS WITHIN THE HOUSTON, TRINITY, | |
| (Sout | # 22 # 23 | TCP(1-2)-18 | POLK, AND SAN JACINTO COUNTY MAINTENANCE SECTIONS | |
| 1 (5 | # 23 | TCP(1-4)-18 | | |
| Sec | # 25 | TCP(1-5)-18 | | |
| SC A | # 26 | WZ(RS)-22 | | |
| I Houston Cr. | 27 | ENVIRONMENTAL EPIC | | BARRICADES AND WARNING SIGNS PROJECT LIMIT BARRICADES WILL NOT BE REQUIRED. THE CONTRACTOR SHALL PROVIDE AND ERECT WARNING SIGNS IN ACCORDANCE WITH THE BARRICADE & CONSTRUCTIONS |
| 5 Plans\6969-05-001 | | | SEE SHEETS 2 AND 3 FOR LOCATION MAPS | THE CONTRACTOR SHALL BROUBE AND ERECT WARNING SIGNS IN ACCORDANCE WITH THE BARRICADE & CONSTRUCTION STANDARDS. TCP STANDARDS. THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND AS DIRECTED. |
| ts\0.RMC - Ro | | S SPECIFICALLY IDENTIFIED ABOVE HAVE THE OR UNDER MY RESPONSIBLE SUPERVISION TO THIS PROJECT. | 4 | RECOMMENDED FOR LETTING: DocuSigned by: Jeremy King, P.E. 5135292FE4184A4 DISTRICT MAINTENANCE ENGINEER APPROVED FOR LETTING: |
| 5/23/2024 10:38:26 AM 11/LFK00M/Maint Controc 355 | DocuSigned by: Jeremy King 5135292FE4184A4 ECIFICATIONS ADOPTED VEMBER 1, 2014 AND SF NTRACT SHALL GOVERN | , P.E. 6/4/2024 DATE BY THE TEXAS DEPARTMENT OF TRANSPOR PECIAL SPECIFICATION ITEMS INCLUDED IN I ON THIS PROJECT. | TATION THE C2024 BY TEXAS DEPARTMENT OF THE TRANSPORTATION. ALL RIGHTS RESERVED. | DocuSigned by: EUNIN BURANALITIPINYO 6/4/2024 DARECTO29805C492 DIRECTOR OF MAINTENANCE |







| NCE | | ≽∺ | ROA | DWAY | | | | | |
|----------------------|-----------------------|-------------------|-------------------------------------|--|--|--|--|--|--|
| PROJECT REFERENCE | MAINTENACE SECTION | HIGHWAY NUMBER | LIMITS | | | | | | |
| REA | | ΞZ | FROM | то | | | | | |
| 26 | POLK | FM 3126 | FM 2457 RM 400+0.980 | FM 350 404+1.010 | | | | | |
| 27 | POLK | FM 3277 | FM 2457 RM 694-0.020 | FM 3126 RM 698+1.510 | | | | | |
| 28 | POLK | US 190 | SAN JACINTO CO. LINE RM 770+0.02 | OLD TRINITY ROAD RM 772+0.580 | | | | | |
| 29 | POLK | US 190 | OLD TRINITY ROAD RM 772+0.580 | FM 3459 RM 772+1.610 | | | | | |
| 30 | POLK | US 190 | FM 3459 RM 772+1.610 | KICKAPOO CREEK RD RM 774+0.150 | | | | | |
| 31 | POLK | US 190 | KICKAPOO CREEK RD RM 774+0.150 | SANDY RIDGE DR RM 774+1.150 | | | | | |
| 32 | POLK | US 190 | SANDY RIDGE DR RM 774+1.150 | FM 2457 RM 780+1.610 | | | | | |
| 33 | POLK | US 287 | PACES CREEK RM 678+1.85 | US 59 RM 682+1.571 | | | | | |
| 34 | SAN JACINTO | SH 150 | SH 156 RM 694+1.043 | FM 222 RM 696+1.216 | | | | | |
| 35 | SAN JACINTO | SH 150 | FM 222 RM 696+1.216 | US 59 RM 706+0.719 | | | | | |
| 36 | SAN JACINTO | SH 150 | WALKER CO. LINE RM 678+1.365 | FM 945 RM 686+1.643 | | | | | |
| 37 | SAN JACINTO | FM 1725 | SH 150 RM 416+0.047 | LIBERTY CO. LINE RM 434+0.000 | | | | | |
| 38 | SAN JACINTO | FM 2914 | US 59 RM 698+0.078 | END OF STATE MAINTENANCE RM 698+1.630 | | | | | |
| 39 | SAN JACINTO | FM 2973 | FM 1514 RM 412+0.025 | SH 150 RM 414+0.014 | | | | | |
| 40 | SAN JACINTO | FM 3081 | FM 1725 RM 418+0.250 | MONTGOMERY CO. LINE RM 426+0.217 | | | | | |
| 41 | SAN JACINTO | US 190 | SH 156 RM 762+1.277 | POLK CO. LINE RM 770+0.021 | | | | | |

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|------|-------|--------------|---------|----|------|--------------------------|--|--|--|
| CONT | SECT | JOB | HIGHWAY | | | | | | |
| 6469 | 05 | 001 | US | 28 | 7. E | TC. | | | |
| DIST | | COUNTY | | SF | IEET | NO. | | | |
| LFK | н | OUSTON, ETC | | | 3 | | | | |

| Project Number: RMC 6469-05-001 | Control: 6469-05-001 |
|---------------------------------|-----------------------------|
| County: HOUSTON, ETC. | Highway: US 287, ETC. |

GENERAL NOTES:

Project Description: This project consists of cleaning and sealing joints and cracks at various locations within the Houston, Trinity, Polk, and San Jacinto County Maintenance Sections.

TxDOT Project Supervisors: All work on this contract will be scheduled and directed by the Maintenance Section Supervisors listed below. Payment will be made on a monthly basis for work completed and accepted according to specifications. All payment requests should be directed to the following Maintenance Section Supervisors listed below.

| <u>COUNTY</u> | SUPERVISOR | ADDRESS | CONTACT # |
|---------------|---------------|--|---------------|
| Houston | Danny Luna | 1123 East Loop 304 Crockett, TX 75835 | (936)544-2264 |
| Trinity | David Wars | 728 W First St. Groveton, TX 75845 | (936)642-1132 |
| Polk | James Henagan | 3161 US Highway 59 Livingston, TX 77351 | (936)327-8914 |
| San Jacinto | Chester Dixon | 8066 SH 150 West Shepherd, TX 77371 | (936)628-3328 |

Contract Prosecution:

Each contract awarded by the Department stands on its own and, as such, is separate from other contracts. A Contractor awarded multiple contracts must be capable and sufficiently staffed to concurrently process any or all contracts at the same time.

Existing regulatory, warning and guide signs within project limits are to remain visible to the traveling public at all times. If a sign must be repositioned during construction operations, move and install the sign to an approved location. Use care when working near existing signs and repair or replace signs damaged by work operations. All work involved repositioning existing signs will be subsidiary to various bid items.

Furnish materials and make repairs to the existing roadway at any location damaged by construction operations. This work shall be done in an approved manner and will be subsidiary to various bid items.

Provide suitable access at all times to adjacent businesses, private property, and side roads.

Minimize vehicles and equipment in construction areas to lessen the impact on existing vegetation. The intent of the plans is to prepare only that portion of the Right of Way necessary for construction.

All workers on TxDOT Right of Way shall wear reflective clothing meeting ANSI Class II requirements during the day and ANSI Class III requirements during the night. Non-compliance with any of these requirements shall be grounds for suspension of work.

General Notes

County: HOUSTON, ETC.

Highway: US 287, ETC.

Control: 6469-05-001

Contractor questions on this project are to be addressed to the following individual(s):

Jeremy King Jeremy.King@TxDOT.gov Tamara Gibson Tamara.Gibson@TxDOT.gov

Questions may be submitted via the Letting Pre-Bid Q&A web page. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address:

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

All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page. The Letting Pre-Bid Q&A web page for each project can be accessed by using 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 you want to view the Q&A for and click on the link in the window that pops up.

The contractor's attention is directed to the EPIC sheet(s) included in this plan set for additional information regarding environmental permits, issues, and commitments.

Item 2: Instructions to Bidders

View plans on-line or download from the web at:

http://www.txdot.gov/business/contractors_consultants/plans_online.htm

Order plans from any of the plan reproduction companies shown on the web at:

http://www.dot.state.tx.us/business/contractors_consultants/repro_companies.htm

Item 5: Control of the Work

In the event utility lines needing unforeseen adjustments are encountered during construction operations, alter operations and continue to prosecute the contract in such a manner that will allow utility adjustments to be made by others. An extension of working time may be granted for any delays caused by the utility adjustments if deemed necessary.

Item 7: Legal Relations and Responsibilities

The proposed work of this project consists of the cleaning and sealing of cracks on existing roadway pavement at various locations shown in the plans within Houston, Trinity, Polk, and San Jacinto County Maintenance Sections. This activity maintains the original line and grade, hydraulic capacity and original purpose of the site. Therefore, this project meets the definition of a routine maintenance activity as defined in the TPDES General Permit No. TXR150000 issued March 5, 2023 and TCEQ's TPDES CGP does not apply.

Dispose of all vegetative matter and any other materials removed from State Right of Way in accordance with applicable environmental laws, rules, regulations and requirements.

General Notes

Sheet 4

Project Number: RMC 6469-05-001

Control: 6469-05-001

County: HOUSTON, ETC.

Highway: US 287, ETC.

 Portion of Site 15: FM 355 is within the Trinity Courty Courthouse Historic District in Groveton. Portion of Site 34 is within the San Jacinto County Courthouse Historic District in Coldspring. The following actions are required.

1. Equipment storage and stockpiling of materials is NOT permitted in ANY pull-off or parking area labelled as historical markers, buildings, or property.

• Portions of the following roadways occur within the boundaries of the U.S. Forest Service Property and require the following actions:

Site 3: FM 1733 Davy Crockett National Forest Site 11: SH 7 Davy Crockett National Forest Site 17: FM 357 Davy Crockett National Forest Site 19: FM 357 Davy Crockett National Forest Site 20: FM 357 Davy Crockett National Forest Site 21: FM 357 Davy Crockett National Forest Site 35: SH 3317 Davy Crockett National Forest Site 35: SH 150 Sam Houston National Forest Site 37: FM 1725 Sam Houston National Forest Site 40: FM 3081 Sam Houston National Forest

1. Area Engineer shall notify the Davy Crockett National Forest and Sam Houston National Forest prior to commencing work on the above roadways.

2. NO stockpiling or storage of materials and equipment within the boundaries of the Davy Crockett National Forest and Sam Houston National Forest.

Red-cockaded Woodpecker (federally listed endangered species) cluster is present adjacent to
the ROW along the following roadways below. Conservation measures have been agreed upon
by the USFWS and TxDOT to ensure that the proposed action will not adversely affect the redcockaded woodpecker. The conservation measures below must be followed in order to be in
compliance with the ESA:

Site 3: FM 1733 from 0.20 mile north of SH 7 to 0.70 mile north of SH 7.

Site 11: SH 7 from 1.25 mile west of CR 1160 to 2.75 mile west of CR 1160 and from 0.90 mile east of CR 1160 to 1.25 mile east of CR 1160.

Site 21: FM 357 from 0.34 mile east of the West intersection of FM 357/2262 to 1.75 mile east of the West intersection of FM 357/2262.

1. NO WORK shall be performed on (highway) from April 1 to July 31.

2. WORK shall begin one hour after sunrise and cease one hour before sunset.

3. NO STOCKPILES or EQUIPMENT STORAGE shall be allowed along or within the ROW along (highway or location).

General Notes

Project Number: RMC 6469-05-001

Control: 6469-05-001 **Highway:** US 287, ETC.

County: HOUSTON, ETC.

Item 8: Prosecution and Progress

Contract Time – The number of working days shall be 35 days or until contract funds are expended.

For this project, working days will be computed and charged in accordance with Item 8, Section 3.1.4, "Standard Workweek".

It is the intent of this contract to finish before March 31st, 2025.

Provide the sequence of work with an estimated project schedule to the Engineer for approval prior to commencing any work on this contract.

If the Contract is not completed in the allotted days provided, liquidated damages will be charged in accordance with SP 000-1243 for each day until the work is accepted by the Engineer as completed.

No lane closures will be allowed after Noon on Fridays or on days preceding National Holidays unless otherwise approved.

Unless otherwise approved, work shall not begin before daylight and all operations shall stop in sufficient time to have signs removed from the road before dark.

Item 9: Measurement and Payment

This Contract includes callout work. In accordance with Article 9.2., "Plans Quantity Measurement", plans quantity measurement requirements are not applicable. The quantities shown are for estimates only and payment will be based on the actual quantities placed.

NONCOMPLIANCE PENALTY – A penalty will be assessed for each instance the contractor is in noncompliance. A noncompliance instance is defined by the following:

1. The contractor fails to begin work at the specified time and/or location(s).

2. The contractor does not have all the personnel and pieces of equipment necessary to fulfill of the item(s) called out at the specified time and/or location(s).

3. The contractor does not complete the work continuously, unless approved by the Engineer.

4. The contractor fails to complete any requirements as stated in the general notes.

The Noncompliance Penalty will be deducted from any money due or to become due for any completed item(s) of work. The Noncompliance Penalty will be assessed as follows: \$250 per instance, per location, until the contractor returns to a state of compliance or otherwise approved by the engineer.

General Notes

Sheet 4A

Project Number: RMC 6469-05-001

Control: 6469-05-001

Project Number: RMC 6469-05-001

Control: 6469-05-001

County: HOUSTON, ETC.

Highway: US 287, ETC.

Item 502: Barricades, Signs, and Traffic Handling

Traffic Control Plan (TCP):

Provide all traffic control for this project. The traffic control plan (TCP) will be governed by PART VI of the TMUTCD, TxDOT standard sheets, TCP standard sheets and as directed by the Engineer. Additional signing and/or barricades shown in the TMUTCD, BC, and TCP standards may be required by the Engineer to insure the safety of the traveling public.

Ensure the Contractor's Responsible Person (CRP) or their alternate for Barricades, Signs and Traffic Handling is available at all times and able to receive instructions from the Engineer or authorized Department representative. The CRP shall be a person that is usually at the project site during normal working hours.

In lieu of placing channeling devices on centerline for one-lane, two-way traffic control, the Contractor may provide the Pilot Car Method. Operate the pilot vehicle in coordination with the flagging operations and other controls at the end of one-lane sections in accordance with appropriate TCP. Mount a G20-4 (Pilot Car Follow Me) sign at a conspicuous location on the rear of the vehicle. Traffic delays caused by one-lane, two-way traffic control, will not be allowed to exceed 5 minutes unless approved by the Engineer. Centerline channelizing devices may be omitted with approval of the Area Engineer.

The Engineer has authority to direct the Contractor to revise TCP limits and/or operations if traffic delays consistently exceed 5 minutes in duration.

Lane Closures are Required on all Roadways.

Restrict construction work to single lane widths with only minor disruptions in traffic flow.

Lane closures shall conform to the traffic control plan for lane closures as shown in the plans.

No overnight closures will be permitted.

Limit lane closures for multilane roads (4 or more lanes) to 2 mi. in length, unless otherwise approved.

Limit lane closures for 2 lane roads to 1 mi. in length, unless otherwise approved.

Lane closure lengths can exclude the end tapers.

Plan the sequence of work to minimize the time lane closures are in place. Install lane closures only where construction operations are anticipated to start within 1 hr. and limited to the amount of lane that can be reached by the construction activity within 2 hr. unless otherwise approved.

Provide a flashing arrow panel and a truck-mounted attenuator to supplement required signs and devices for each lane closure.

County: HOUSTON, ETC.

Highway: US 287, ETC.

Provide temporary rumble strips as shown on work zone rumble strip standards. Temporary rumble strips shall be a product listed on the Compliant Work Zone Traffic Control Devices and shall be a two-piece rumble strip that hinges in the middle.

For protection of the traveling public, direct traffic through the work area using signs, flaggers and other devices. Required signs are shown in the plans on the Barricade and Construction Standards and Traffic Control Plan Sheets. The latest edition of the "Texas Manual on Uniform Traffic Control Devices" shall also be used as a guide for handling traffic on this project.

Provide adequate flaggers to protect the traveling public when working on or near a roadway carrying traffic. All flaggers shall wear hardhats and ANSI approved reflective safety vests. Vests shall be clean and worn fully fastened.

Use additional flaggers at roadway intersections to direct traffic entering the work area when deemed necessary by the Engineer.

Install "Be Prepared to Stop" (CW3-4) and "Flagger Ahead" (CW20-7aD) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

Furnish and maintain all warning signs, flaggers, channelizing devices, etc. required for traffic control on this contract in accordance with Item 502.1 & 502.2. This work will not be paid for directly but will be considered subsidiary to the various bid items.

Provide one high-intensity, yellow, rotating dome-light on all equipment such as distributors, spreader boxes, lay-down machines, rollers, backhoes, road graders, loaders, etc. Mount lights high enough to be visible from all directions and operating when the equipment is within 30 feet of the travel way. On all other equipment such as trucks, trailers, automobiles, etc., use emergency flashers while within the work zone.

Blue warning lights should only be used while performing work on or near the travel lanes or shoulder where the traveling public may encounter workers that are not protected by a standard work zone set up such as a lane closure, shoulder closure, or one-way traffic control.

Texas Transportation Code 547.105 authorizes the use of warning lights to promote safety and provides an effective means of gaining the travelling public's attention as they drive in areas where construction crews are present. In order to influence the public to move over when high risk construction activities are taking place, minimize the utilization of blue warning lights. These lights must be used only while performing work on or near the travel lanes or shoulder where the travelling public encounters construction crews that are not protected by a standard work zone set up such as a lane closure, shoulder closure, or one-way traffic control. Refrain from leaving the warning lights engaged while travelling from one work location to another or while parked on the right of way away from the pavement or a work zone.

All bi-directional machines such as rollers, compactors, front-end loaders, bulldozers and similar equipment shall be equipped with a horn, distinguishable from the surrounding noise level, which shall be operated as needed when the machine is moving in either direction. The horn shall be maintained in an operative condition.

General Notes

Sheet 4B

General Notes

| Project Number: RMC 6469-05-001 | Control: 6469-05-001 | Project Number: RMC 6469-05-001 | Control: 6469-05-001 | | |
|--|-----------------------|--|---------------------------|--|--|
| County: HOUSTON, ETC. | Highway: US 287, ETC. | County: HOUSTON, ETC. | Highway: US 287, ETC | | |
| The contractor shall not use any vehicle or equipment | | Item 6185: Truck Mounted Attenuator (TMA) and | l Trailer Attenuator (TA) | | |
| unless the vehicle or equipment has a reverse signal al level. The alarm shall be maintained in an operative of | | All crash attenuators shall meet current NCHRP-350 and the Department's Compliant Work Zone Traffic C | | | |

Item 712: Cleaning and Sealing Joints and Cracks (Asphalt Concrete)

All sealable cracks shall be filled according to specifications. This includes, but is not limited to, sealing over pavement markings and rumble strips.

Equipment used in cleaning cracks shall be capable of delivering a minimum of 125 PSI of air pressure with orifice of at least 0.5 inches in size.

Use of turbine blowers of any type for cleaning debris from cracks shall not be allowed.

Clean joints and cracks to the satisfaction of the Engineer with air blast cleaning to a depth at least twice the width of the joint or crack prior to sealing.

Seal cracks completely with crack sealer from edge of pavement to edge of pavement.

Use a hot applied rubber-asphalt crack sealer (Class B).

Hot poured rubber-asphalt (Class B) is NOT to be applied if the air temperature is below 50° F and falling, but may be applied when the temperature is above 40° F and rising: the air temperature being taken in the shade and away from artificial heat.

Joints and cracks must be free of moisture prior to sealing.

The sealant is not to be applied when, in the opinion of the Engineer, the weather conditions are not suitable.

Protect raised pavement markers from damage.

Complete all crack sealing at each location before beginning operations at subsequent locations, unless otherwise approved.

Dispose of solvents or other materials in a timely manner in accordance with local, state and federal regulations. Provide written documentation showing proof of compliance when required.

This item will be measured by the lane mile. Shoulders wider than 6 ft. are considered additional lanes.

Shoulders 6 feet wide and less are considered subsidiary to the travel lane.

Apply fine aggregate as needed to prevent tracking. Clean road of debris from cracks and open to traffic as soon as possible, but no later than the end of the workday. This work is subsidiary to Item 712.

https://ftp.txdot.gov/pub/txdot-info/cmd/mpl/cwztcd.pdf

Truck Mounted Attenuators (TMAs) as shown on the TCPs are not optional and shall be used. Whether shown on the TCPs or added by the Department, TMAs shall be paid for under Item 6185, "Truck Mounted Attenuator" for the type of operation being performed.

TMAs will be paid under Item 6185-6002 "TMA (STATIONARY)".

The TMA used for set-up and removal of the Traffic Control Plan is deemed to be the one and the same TMA used during maintenance of the Traffic Control Plan.

Submit to the Engineer on or before the pre-construction meeting a letter certifying all TMA devices used on the project meet NCHRP 350 or AASHTO Manual for assessing Safety Hardware (MASH) requirements.

Signs and arrow boards required on truck-mounted attenuators and pilot vehicles are subsidiary to Item 6185.

General Notes

Estimate & Quantity Sheet

R Texas Department of Transportation

DISTRICT Lufkin HIGHWAY US0287 COUNTY Houston

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|---------------------|-------------|
| CONTROL SECTION JOB | 6469-05-001 |

CONTROLLING PROJECT ID 6469-05-001

| | | CONTROL SECTIO | ON JOB | 6469-0 | 5-001 | | |
|--------|-----------|--|--------|-----------|-------|------------|----------------|
| | | PROJ | ECT ID | A00210411 | | | |
| COUNTY | | | | | ton | TOTAL EST. | TOTAL FINAL |
| | | HIGHWAY US0287 | | | | | |
| ALT | BID CODE | DESCRIPTION | UNIT | EST. | FINAL | | |
| | 500-6001 | MOBILIZATION | LS | 1.000 | | 1.000 | |
| | 502-6001 | BARRICADES, SIGNS AND TRAFFIC HANDLING | MO | 4.000 | | 4.000 | |
| | 712-6008 | JT / CRCK SEAL (RUBBER - ASPHALT) | LMI | 685.460 | | 685.460 | |
| | 6185-6002 | TMA (STATIONARY) | DAY | 34.000 | | 34.000 | |



| DISTRICT | COUNTY | CCSJ | SHEET |
|----------|---------|-------------|-------|
| Lufkin | Houston | 6469-05-001 | 5 |

| | 1 | - | - | 1 | | | | | | | | 1 | | | 0712 6008 |
|----------------------|-----------------------|--------------------|---------|---------|--|-----------------------------------|--------|----------|----------------|----------|----------------|-----------------|---------------------|------------------------|-------------------------|
| NCE | | ≶ | ş | N | | ROAD | WAY | | 1 | | | AVG. CRACKS/ | CONTRACTOR'S INFO C | | JT / CRCK SE (RUBBER |
| PROJECT REFERENCE | MAINTENACE SECTION | HIGHWAY NUMBER. | CONTROL | SECTION | LIN | NITS | LENGTH | NO OF | LANE. WIDTH | NO OF | SHLDR WIDTH | 100 FT | CRACKS/ MILE | EST MATE @ 1LB/4 LF | ASPHALT) |
| щ. Ш. | | I2 | 0 | ő | FROM | то | MI | LANES | WDIII | SHLDRS | WIDTH | FT | FT | TON | LMI |
| 1 | HOUSTON | FM 229 | 0340 | 04 | FM 2544 RM 656-0.041 | SH 7 RM 670+1.177 | 14.140 | 2 | 11 | 2 | 1 | 46 | 4,857.60 | 8.59 | 28.28 |
| 2 | HOUSTON | FM 231 | 0938 | 01 | BEG. OF PAVEMENT RM 666+0.000 | SH 19 RM 668+1.809 | 3.810 | 2 | 11 | 2 | 1 | 58 | 6,124.80 | 2.92 | 7.62 |
| 3 | HOUSTON | FM 1733 | 1677 | 01 | SH 21 RM 354-0.049 | SH 7 RM 364+0.371 | 10.330 | 2 | 10.5 | 2 | 0.5 | 146 | 15,417.60 | 19.91 | 20.66 |
| 4 | HOUSTON | FM 2022 | 1875 | 02 | ANDERSON CO. LINE RM 344+1.862 | FM 2423 RM 352+1.299 | 7.940 | 2 | 11 | 2 | 1 | 6 | 633.60 | 0.63 | 15.88 |
| 5 | HOUSTON | FM 2663 | 2663 | 01 | US 287 RM 668-0.021 | FM 2022 RM 672+0.433 | 4.410 | 2 | 10.5 | | | 27 | 2,851.20 | 1.57 | 8.82 |
| 6 | HOUSTON | FM 2712 | 2324 | 01 | SL 304 RM 364-0.031 | END OF PAVEMENT RM 364+1.784 | 1.820 | 2 | 10.5 | | | 60 | 6,336.00 | 1.44 | 3.64 |
| 7 | HOUSTON | FM 2967 | 3034 | 01 | FM 132 RM 366-0.063 | SH 21 RM 368+0.826 | 2.820 | 2 | 11 | 2 | 1 | 192 | 20,275.20 | 7.15 | 5.64 |
| 8 | HOUSTON | FM 3016 | 3110 | 01 | FM 228 RM 344-0.042 | FM 227 RM 348+0.418 | 4.400 | 2 | 10 | | | 43 | 4,540.80 | 2.50 | 8.80 |
| 9 | HOUSTON | FM 3187 | 3265 | 01 | SH 21 RM 674-0.031 | END OF PAVEMENT RM 678+0.382 | 4.380 | 2 | 12 | | | 26 | 2,745.60 | 1.50 | 8.76 |
| 10 | HOUSTON | SH 7 | 0336 | 01 | SL 304 RM 676+0.320 | FM 232 RM 684+0.446 | 8.010 | 2 | 12 | 2 | 10 | 72 | 15,206 <u>.</u> 40 | 15.23 | 32.04 |
| 10 | HOUSTON | 517 | 0336 | | EXTRA 3RD F | PASSING LANE | 3.000 | 1 | 12 | | | 72 | 3,801.60 | 1.43 | 3.00 |
| 11 | HOUSTON | SH 7 | 0336 | 02 | 0.312 MI. EAST OF FM 227 RM 694+1.171 | ANGELINA CO. LINE RM 704+1.483 | 10.030 | 2 | 12 | 2 | 10 | 68 | 14,361.60 | 18.01 | 40.12 |
| 11 | HOUSTON | 5H7 | 0336 | 02 | EXTRA PASSING LANE | ES MAKING UP A 4 LANE | 1.500 | 2 | 12 | | | 68 | 7,180.80 | 1.35 | 3.00 |
| 101 | HOURTON | 01104 | 0447 | | MADISON CO. LINE RM 694+0.558 | FM 1280 WEST RM 704+0.392 | 9.980 | 2 | 12 | 2 | 11 | 71 | 14,995.20 | 18.71 | 39.92 |
| 12* | HOUSTON | SH 21 | 0117 | 06 | EXTRA 3RD PASSING LANE, I | PLUS TURN LANES @ FM 1280 | 5.000 | 1 | 12 | | | 71 | 3,748.80 | 2.34 | 5.00 |
| 40 | HOURTON | 01104 | 0447 | 0.7 | 2.48 MI. EAST OF FM 2967 RM 710+1.748 | SH 7 RM 716+1.506 | 5.980 | 2 | 12 | 2 | 10 | 58 | 12,249.60 | 9.16 | 23.92 |
| 13 | HOUSTON SH 21 | SH 21 | 0117 | 07 | EXTRA 3RD F | PASSING LANE | 4.250 | 1 | 12 | | | 58 | 3,062.40 | 1.63 | 4.25 |
| 14 | HOUSTON | 110.007 | | | 1.2 MISE OF FM 232 RM 646+1.078 | TRINITY CO. LINE RM 650+1.761 | 4.070 | 2 | 12 | 2 | 1 | 127 | 13,411.20 | 6.82 | 8.14 |
| 14 | HOUSTON | US 287 | 0340 | 01 | EXTRA PASSING LANE | S MAKING UP A 4 LANE | 1.400 | 2 | 12 | | | 127 | 13,411.20 | 2.35 | 2.80 |

S *INCLUDES TURN LANES

**THE CONTRACTOR MUST CONTACT THE MAINTENANCE OFFICE PRIOR BEGINNING OF WORK IN EACH MAINTENANCE SECTION.

_ _ _ _

| HOT-PO | OUR CRACK | SEAL | ASPHAL | T CONC | RETE PROJECT SUM | MARY (TRINITY COU | NTY) | | | | | | | | TEM/CODE 0712 6008 | |
|----------------------|-----------------------|--------------------|---------|---------|----------------------------------|-------------------------------------|--------|----------|----------------|----------|-----------------|-------------------|-------------------|------------------------|------------------------|---------------------|
| 드럭 | | ≻aż | 5 | z | | ROADWAY | | | | | AVG. CONTRACTOR | | R'S INFO ONLY | JT / CRCK SE | | |
| PROJECT REFERENCE | MAINTENACE SECTION | HIGHWAY NUMBER. | CONTROL | ONTRO | SECTION | LIN | NITS | LENGTH | NO OF | LANE. | NO OF | SHLDR | CRACKS/ 100 FT | CRACKS/ MILE | ESTIMATE @ 1LB/4 LF | (RUBBER ASPHALT) |
| 님핖 | | ΞZ | Ŭ | S | FROM | то | M | LANES | WIDTH | SHLDRS | WIDTH | FT | FT | TON | LMI | |
| 15 | TRINITY | FM 355 | 0930 | 01 | INT. FM 356 RM 380-0.059 | INT. US 287 RM 394+0.032 | 14.091 | 2 | 12 | | | 50 | 5,280.00 | 9.30 | 28.18 | |
| 16 | TRINITY | FM 356 | 0475 | 09 | SH 94 RM 686-0.049 | POLK CO. LINE RM 702+0.047 | 16.096 | 2 | 13 | | | 50 | 5,280.00 | 10 <u>.</u> 62 | 32,19 | |
| 17 | TRINITY | FM 357 | 0940 | 01 | SH 7 RM 686-0.04 | TRINITY CO. LINE RM 694+0.000 | 8.040 | 2 | 13 | | | 50 | 5,280.00 | 5.31 | 16.08 | |
| 18 | TRINITY | FM 357 | 0940 | 02 | HOUSTON CO. LINE RM 694+0.000 | FM 233 RM 696+0.717 | 2.717 | 2 | 13 | | | 50 | 5,280.00 | 1.79 | 5.43 | |
| 19 | TRINITY | FM 357 | 0931 | 04 | FM 233 696+0.717 | SH 94 RM 702+1.437 | 6.720 | 2 | 13 | | | 50 | 5,280.00 | 4.44 | 13.44 | |
| 20 | TRINITY | FM 357 | 2071 | 03 | SH 94 RM 702+1.635 | FM 2262 RM 710+1.327 | 7.692 | 2 | 13 | | | 50 | 5,280.00 | 5.08 | 15.38 | |
| 21 | TRINITY | FM 357 | 2117 | 02 | FM 2262 RM 710+1.327 | POLK CO. LINE RM 716+0.447 | 5.120 | 2 | 12 | | | 50 | 5,280.00 | 3.38 | 10.24 | |
| 22 | TRINITY | FM 2781 | 2913 | 02 | US 287 RM 370+1.350 | HOUSTON COUNTY LINE RM 376+0.796 | 5.446 | 2 | 13 | | | 50 | 5,280.00 | 3.59 | 10.89 | |
| 23 | TRINITY | FM 2781 | 2813 | 01 | TRINITY CO. LINE RM 376+0.796 | FM 1280 RM 380+0.081 | 3.285 | 2 | 13 | | | 50 | 5,280.00 | 2.17 | 6.57 | |
| 24 | TRINITY | FM 2915 | 2448 | 02 | END OF PAVEMENT RM 660-0.059 | FM 230 RM 664+1.283 | 5.342 | 2 | 13 | | | 50 | 5,280.00 | 3.53 | 10.68 | |
| 25 | TRINITY | FM 3317 | 3493 | 01 | END OF PAVEMENT RM 692-0.033 | INT. SH 94 RM 694+0.067 | 2.100 | 2 | 11 | | | 50 | 5,280.00 | 1.39 | 4.20 | |
| | | | | | | | | | TF | | Y MAINTENA | NCE SECTION | SUBTOTALS | 50.60 | 153.28 | |
| | | | | | | | | | | | | | | | | |
| HOT-PO | | SEAL | ASPHAL | T CONC | RETE PROJECT SUM | MARY (POLK COUNT | Y) | | | | | | | | ITEM/COE 0712 600 | |
| L P | | ≳⊭ | 5 | z | | ROADV | /AY | | _ | | | AVG. | CONTRACTO | R'S INFO ONLY | JT / CRCK S | |
| PROJECT REFERENCE | MAINTENACE SECTION | HIGHWAY NUMBER. | CONTROL | SECTION | LIN | IITS | LENGTH | NO OF | LANE. WIDTH | NO OF | SHLDR WIDTH | CRACKS/ 100 FT | CRACKS/ MILE | ESTIMATE @ 1LB/4 LF | (RUBBER ASPHALI | |
| - Ж | | τ∠ | ° – | | FROM | то | М | LANES | WIDTH | SHLDRS | , , , DIH | FT | FT | TON | LMI | |
| 26 | POLK | FM 3126 | 3160 | 01 | FM 2457 RM 400+0.980 | FM 350 404+1.010 | 4.030 | 2 | 12 | | | 110 | 11,616.00 | 5.85 | 8.06 | |
| | | | | | EM 2457 | EM 3126 | | | | | | | | | | |

POLK FM 3126 01 2 12 110 11,616.00 8.06 3160 5.85 RM 400+0.980 404+1.010 4.030 FM 2457 RM 694-0.020 FM 3126 RM 698+1.510 27 12 60 POLK FM 3277 3471 01 5.530 2 6,336.00 4.38 11.06 OLD TRINITY ROAD RM 772+0.580 SAN JACINTO CO, LINE RM 770+0.02 28* POLK US 190 0213 03 2.560 2 12 2 10 120 25,344.00 8.11 10.24 OLD TRINITY ROAD RM 772+0.580 FM 3459 RM 772+1.610 29* 03 3 12 4 POLK US 190 0213 1.030 2 120 19,008.00 2.45 3.09 FM 3459 RM 772+1.610 KICKAPOO CREEK RD RM 774+0.150 30* 10 POLK US 190 0213 03 0.540 3 12 2 120 31,680.00 2,14 2.70 KICKAPOO CREEK RD RM 774+0.150 SANDY RIDGE DR RM 774+1.150 31* POLK US 190 0213 03 1.000 2 12 2 10 120 25,344.00 3.17 4.00 SANDY RIDGE DR RM 774+1.150 FM 2457 RM 780+1.610 32* POLK US 190 0213 03 6.460 з 12 2 10 120 31,680.00 25.58 32.30 PACES CREEK RM 678+1.85 US 59 RM 682+1.571 33* POLK US 287 3.721 2 12 0341 02 2 10 160 33,792.00 15.72 14.88 POLK COUNTY MAINTENANCE SECTION SUBTOTALS 67.40 86.33

*INCLUDES TURN LANES

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5/30/2024 8:12:09 Ts/LFKDOM/Maint Con **THE CONTRACTOR MUST CONTACT THE MAINTENANCE OFFICE PRIOR BEGINNING OF WORK IN EACH MAINTENANCE SECTION.



| © 2024 Te | | Department o | | asportation® |
|--------------|------|--------------|----|--------------|
| CONT | SECT | JOB | | HIGHWAY |
| 6469 | 05 | 001 | US | 287.ETC. |
| DIST | | COUNTY | - | SHEET NO. |
| LFK | н | OUSTON. ETC | | 7 |

| 느낌 | | | _ | 7 | | ROADWAY | | | | | AVG. | CONTRACTOR'S INFO ONLY | | JT / CRCK SEAL | |
|----------------------|-----------------------|--------------------|---------|--------|---------------------------------|--|--------|----------|--------|-------------|------------|------------------------|--------------------|----------------|------------------|
| PROJECT REFERENCE | MAINTENACE SECTION | HIGHWAY NUMBER. | CONTROL | ECTION | Liř | NITS | LENGTH | NO OF | LANE. | NO OF | SHLDR | CRACKS/ 100 FT | CRACKS/ MILE | | (RUBBE ASPHAI |
| REF | | ΞZ | 8 | - O | FROM | то | M | LANES | WIDTH | SHLDRS | WIDTH | FT | FT | TON | LM |
| 34 | SAN JACINTO | SH 150 | 0395 | 03 | SH 156 RM 694+1.043 | FM 222 RM 696+1.216 | 4.346 | 2 | 13 | 2 | 9 | 415 | 87,648.00 | 47.61 | 17.3 |
| 35 | SAN JACINTO | SH 150 | 0395 | 03 | FM 222 RM 696+1.216 | US 59 RM 706+0.719 | 9.503 | 2 | 13 | 2 | 9 | 210 | 44,352 <u>.</u> 00 | 52 <u>.</u> 68 | 38.0 |
| 36 | SAN JACINTO | SH 150 | 0395 | 02 | WALKER CO. LINE RM 678+1.365 | FM 945 RM 686+1.643 | 8.278 | 2 | 13 | 2 | 9 | 400 | 84,480.00 | 87.42 | 33. |
| 37 | SAN JACINTO | FM 1725 | 1582 | 01 | SH 150 RM 416+0.047 | LIBERTY CO. LINE RM 434+0.000 | 18.047 | 2 | 12 | | | 350 | 36,960.00 | 83.38 | 36.0 |
| 38 | SAN JACINTO | FM 2914 | 2962 | 01 | US 59 RM 698+0.078 | END OF STATE MAINTENANCE RM 698+1.630 | 1.708 | 2 | 12 | | | 200 | 21,120.00 | 4.51 | 3.4 |
| 39 | SAN JACINTO | FM 2973 | 3037 | 01 | FM 1514 RM 412+0.025 | SH 150 RM 414+0.014 | 2.043 | 2 | 12 | | | 200 | 21,120.00 | 5.39 | 4.0 |
| 40 | SAN JACINTO | FM 3081 | 2594 | 02 | FM 1725 RM 418+0.250 | MONTGOMERY CO. LINE RM 426+0.217 | 8.242 | 2 | 12 | | | 213 | 22,492.80 | 23.17 | 16. |
| 41 | SAN JACINTO | US 190 | 0213 | 02 | SH 156 RM 762+1 <u>.</u> 277 | POLK CO, LINE RM 770+0.021 | 6.744 | 2 | 13 | 2 | 8 | 307 | 64,838.40 | 54.66 | 26. |
| | | | | | | | | | SAN JA | CINTO COUNT | Y MAINTENA | NCE SECTIO | SUBTOTALS | 358.82 | 175 |
| | | | | | | | | | | | | PROJEC | T TOTALS | 600.06 | 685 |

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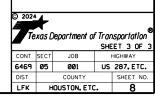
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THE CONTRACTOR MUST CONTACT THE MAINTENANCE OFFICE PRIOR BEGINNING OF WORK IN EACH MAINTENANCE SECTION.

| SUMMARY OF TRUCK MOUNTED ATTENUATORS (TMAs) | | | | | |
|--|---------------------|--|--|--|--|
| | ITEM 6185-6002 | | | | |
| COUNTY | TMA (STATIONARY) | | | | |
| | DAY | | | | |
| VARIOUS | 34 | | | | |
| PROJECT TOTALS FOR ALL COUNTIES | 34 | | | | |

USE ACCORDING TO APPROPRIATE TCP STANDARDS.



QUANTITY SUMMARIES

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BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 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 Manualon Uniform Traffic Control Devices" (TMUTCD).
- 2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- 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 lone 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 Desian 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.
- 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 Texos," 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.
- 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 Manualon 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.
- 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 travellanes. 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:

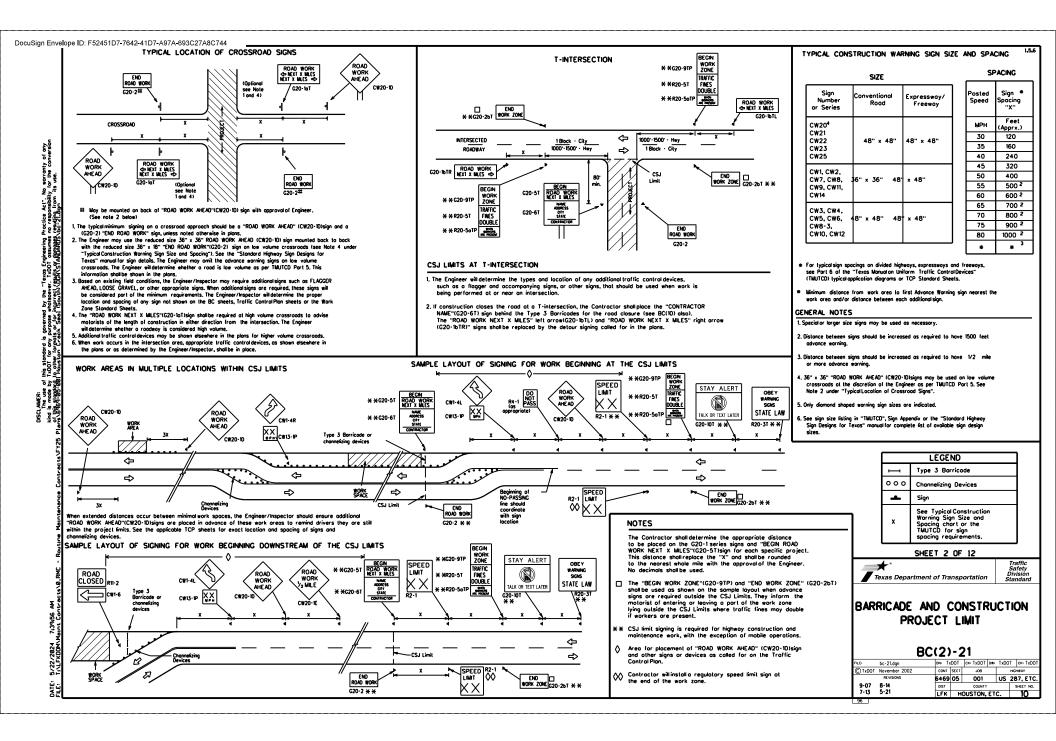
- Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility sofety opparelmeeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

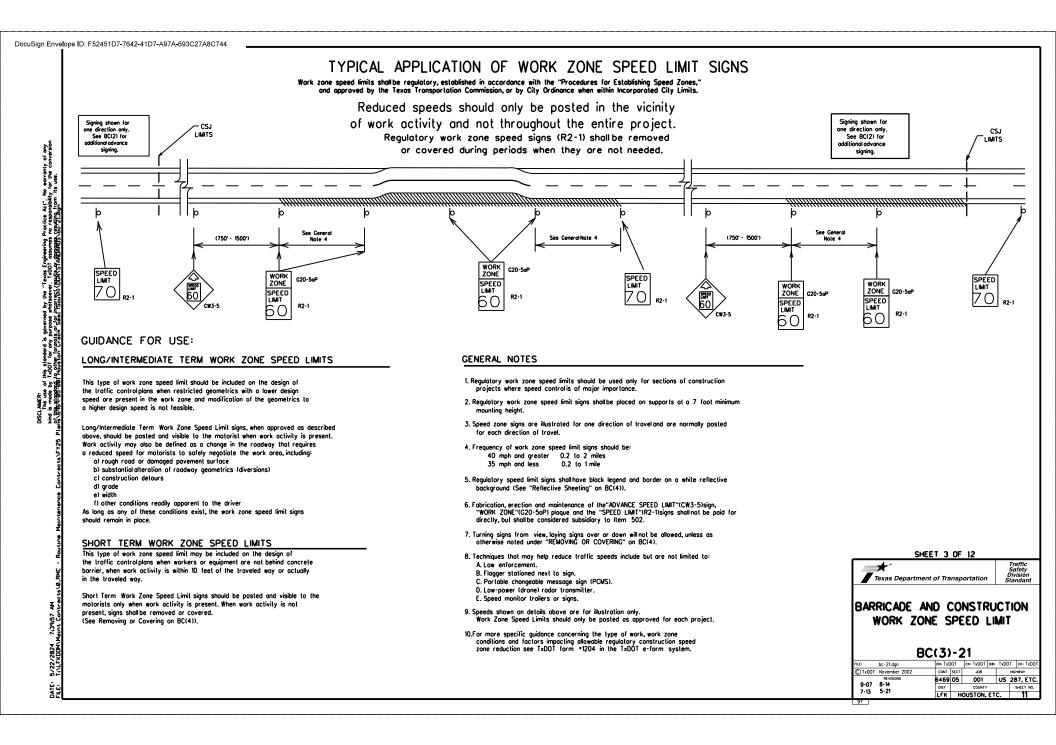
COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

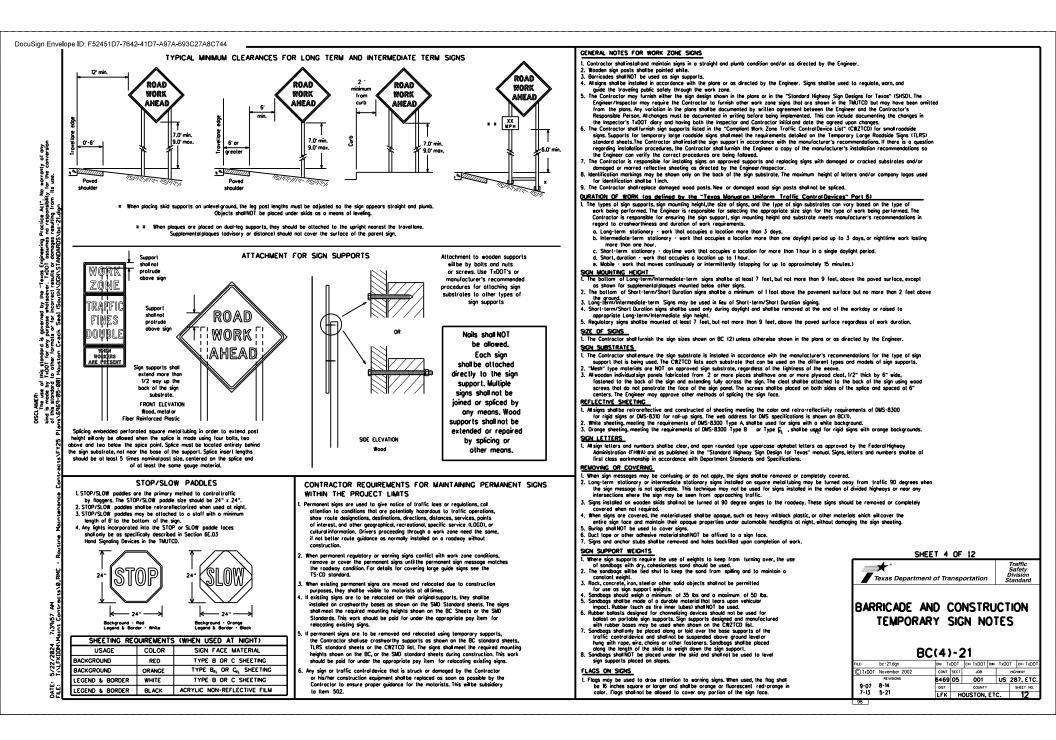
- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

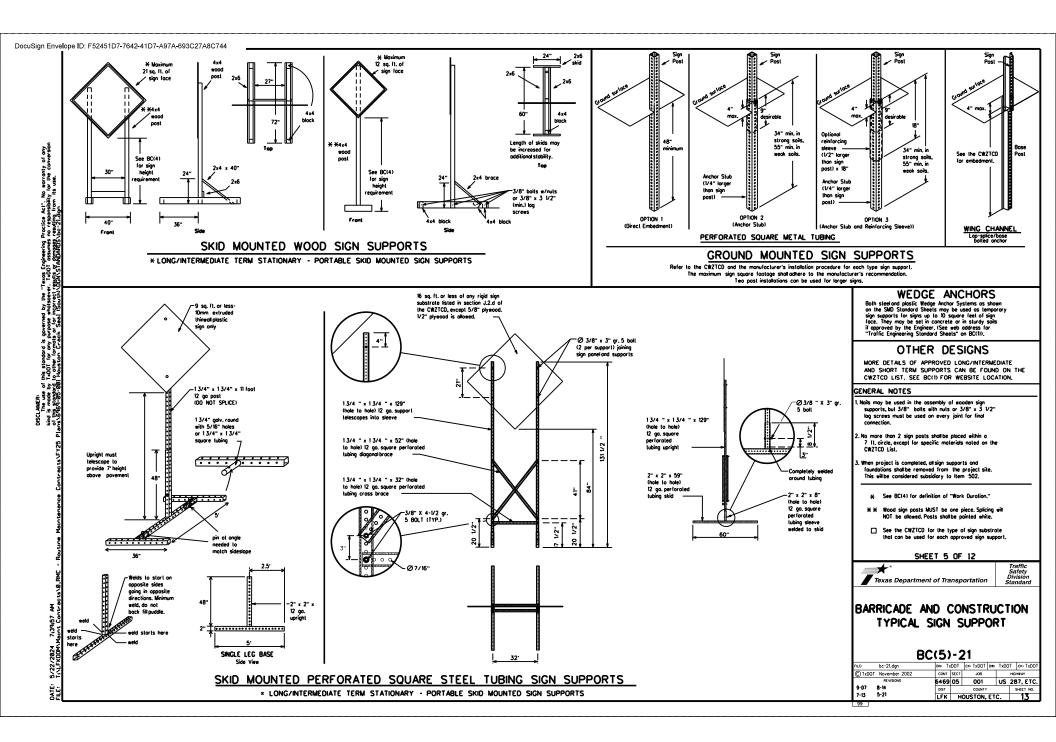
| THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT |
|---|
| http://www.txdot.gov |
| COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD) |
| DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS) |
| MATERIAL PRODUCER LIST (MPL) |
| ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)" |
| STANDARD HIGHWAY SIGN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

| SHEET 1 OF 12 | | | | | | | | | | |
|---|---------------|--------|-------------|-------------|----------|-------------|--|--|--|--|
| Traffic Safety Division Standard | | | | | | | | | | |
| BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC(1)-21 | | | | | | | | | | |
| FILE: | bc-21.dgn | DN: Tx | DOT | CK: TxDOT 0 | on∾ TxDO | T CK: TxDOT | | | | |
| C 1x001 | November 2002 | CONT | SECT | JOB | | HIGHWAY | | | | |
| 4-03 | REVISIONS | 6469 | 05 | 001 | US | 287, ETC. | | | | |
| 9.07 | 8-14 | DIST | DIST COUNTY | | | SHEET NO. | | | | |
| 5-10 | 5-21 | LFK | H | OUSTON, E | ETC. | 9 | | | | |
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this standar TxDOT for c to other for

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he use node stonde

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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). 2. 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.
- Hessages 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. Alwoys use the route or interstate designation (IH, US, SH, FM)
- along with the number when referring to a roadway. 6. When in use, the bottom of a stationary PCMS message panel should be
- a minimum 7 (set above the roadway, where possible. 7. The message term "WEEKEND" should be used only if the work is to stort on Salurday morning and end by Sunday evening at midnight. Actualdays and hours of work should be displayed on the PCMS if work
- actuations and nours of work shallow be asployed on the runs in work is to begin on Friday evening and/or continue into Manday marning. 8. The Engineer/Inspector may select one of two options which are avail-able for disploying a two-phase message on a PCMS. Each phase may be disployed for either four seconds each or for three seconds each.
- Do not "flosh" 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.
- to not use the word "Donger" in message the same and changing the timo me. 12. Oo not display the message "LAKE SHIFT LEFT" or "LAKES SHIFT RICHT" on o PCMS. Drivers do not understand the message. 13. Do not display messages that scrallhorizontally or vertically across
- the lace of the sign. 14. The following table lists abbreviated words and two-word phrases that
- ore acceptable for use on a PCWS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be obbreviated, unless shown in the TMUTCD.
- 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 units. They should be visible from al least 1/2 (1.5) mile and the text should be leagble from all least 600 feet to right and 800 feet in doryight. Truck mounted units must have a character height of 10 inches and must be legible from al least 400 feet. 16. Each line of leat should be centered on the message board rother than

- No. com me or text should be centered on the message board rainer man left or right justified.
 17. If disobled, the PCMS should default to an illegible display that will not alorm motorists and willonly be used to dert workers that the PCMS has malfunctioned. A pottern such as a series of horizontal solid bars is appropriate.

| Access Rood A | CCS RD | Najor MAJ | |
|--------------------|------------|----------------|-----------|
| Alternate | ALT | Miles | MI |
| Avenue | AVE | Miles Per Hour | MPH |
| Best Route | BEST RTE | Minor | MNR |
| Boulevard | BLVD | Monday | MON |
| Bridge | BRDG | Normal | NORM |
| Cannot | CANT | North | N |
| Center | CTR | Nor thbound | (route) N |
| Construction | CONST AND | Parking | PKING |
| | | Rood | RD |
| CROSSING | XING | Right Lone | RTLN |
| Detour Route | DETOUR RTE | Saturday | SAT |
| Do Not | DONT | Service Rood | SERV RD |
| East | E | Shoulder | SHLDR |
| Eastbound | (route) E | Slippery | SL IP |
| Emergency | EMER | South | S |
| Emergency Vehicle | | Southbound | (route) S |
| Entrance, Enter | ENT | Speed | SPD |
| Express Lone | EXP LN | Street | ST |
| Expresswoy | EXPRY | Sunday | SUN |
| XXXX Feet | XXXX FT | Telephone | PHONE |
| Fog Ahead | FOC AHD | Temporary | TEMP |
| Freeway | FRWY, FWY | Thursday | THURS |
| Freeway Blocked | FWY BLKD | To Downtown | TO DWNTN |
| Friday | FRI | Troffic | TRAF |
| Hozordous Driving | | Trovelers | TRVLRS |
| Hozordous Moterial | | Tuesday | TUES |
| High Occupancy | HOV | Time Minutes | TIME MIN |
| Vehicle | HWY | Upper Level | UPR LEVEL |
| Highway | | Vehicles (s) | VEH, VEHS |
| Hour (s) | HR, HRS | Warning | WARN |
| Information | INFO | Wednesday | WED |
| It is | 115 | Weight Limit | WT LIMIT |
| Junction | JCT | West | |
| Left | LFT | Westbound | (route) |
| Left Lone | LFT LN | Wet Pavement | WET PYNT |
| Lone Closed | LN CLOSED | Will Not | WONT |
| Lower Level | LWR LEVEL | | |
| Maintenance | MAINT | J | |

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES (The Engineer may approve other messages not specifically covered here.)

ROAD

REPAIRS

XXXX FT

I ANF

NARROWS

XXXX FT

TWO-WAY

TRAFFIC

CONST

TRAFFIC

XXX FT

UNEVEN

LANES

XXXX FT

ROUGH

ROAD

XXXX FT

ROADWORK

NEXT

FRI-SUN

US XXX

EXIT

X MILES

LANES

SHIF T

XX MILE

Phase 1: Condition Lists Road/Lane/Ramp Closure List Other Condition List FREEWAY FRONTAGE ROADWORK CLOSED ROAD XXX FT X MILE CLOSED ROAD SHOULDER FL AGGER CLOSED CLOSED XXXX FT AT SH XXX XXX FT RIGHT LN ROAD RIGHT LN CLSD AT CLOSED. NARROWS RIGH I AI CLC

CLOSED

| | XXX FT | XXXX FT |
|---------------------------|------------------------------|---------------------------|
| RIGHT X | RIGHT X | MERGING |
| LANES | LANES | TRAFFIC |
| CLOSED | OPEN | XXXX FT |
| CENTER | DAYTIME | LOOSE |
| LANE | LANE | GRAVEL |
| CLOSED | CLOSURES | XXXX FT |
| NIGHT LANE CLOSURES | I-XX SOUTH EXIT CLOSED | DETOUR X MILE |
| VARIOUS | EXIT XXX | ROADWORK |
| LANES | CLOSED | PAST |
| CLOSED | X MILE | SH XXXX |
| EXIT CLOSED | RIGHT LN TO BE CLOSED | BUMP XXXX FT |
| MALL | X LANES | TRAFFIC |
| DRIVEWAY | CLOSED | SIGNAL |
| CLOSED | TUE - FRI | XXXX FT |
| XXXXXXXX BLVD | * LANES SHIFT in Phose 1r | nust be used with STAY IN |

| Action to Take/Eff | | Location List |
|----------------------------|----------------------------|--------------------------------|
| MERGE RIGHT | FORM X LINES RIGHT | AT FM XXXX |
| DETOUR NEXT X EXITS | USE XXXXX RD EXIT | BEFORE RAILROAD CROSSING |
| USE EXIT XXX | USE EXIT I-XX NORTH | NEXT X MILES |
| STAY ON US XXX SOUTH | USE I-XX E TO I-XX N | PAST US XXX EXIT |
| TRUCKS USE US XXX N | WATCH FOR TRUCKS | XXXXXXX TO XXXXXXX |
| WATCH FOR TRUCKS | EXPECT DELAYS | US XXX TO FM XXXX |
| EXPECT DELAYS | PREPARE TO STOP | |
| REDUCE SPEED XXX FT | END SHOULDER USE | |
| USE OTHER ROUTES | WATCH FOR WORKERS | |
| STAY IN LANE × | | |

Phase 2: Possible Component Lists

* * Advance Warning Notice List List SPEED TUE-FRI LIMIT XX AM-XX MPH X PM MAXIMUM APR XX-SPEED XX XX MPH X PM-X AM MINIMUM BEGINS SPEED MONDAY XX MPH ADVISORY BEGINS SPEED MAY XX XX MPH RIGHT MAY X-X I ANF XX PM -FXIT XX AM LISE NEXT CAUTION FRI-SUN DRIVE XX AM SAFELY то XX PM DRIVE NEXT WITH TUE CARE AUG XX TONIGHT XX PM-

XX AM

* * See Application Guidelines Note 6.

APPLICATION GUIDELINES

1. Only 1 or 2 phases are to be used on a PCNIS.

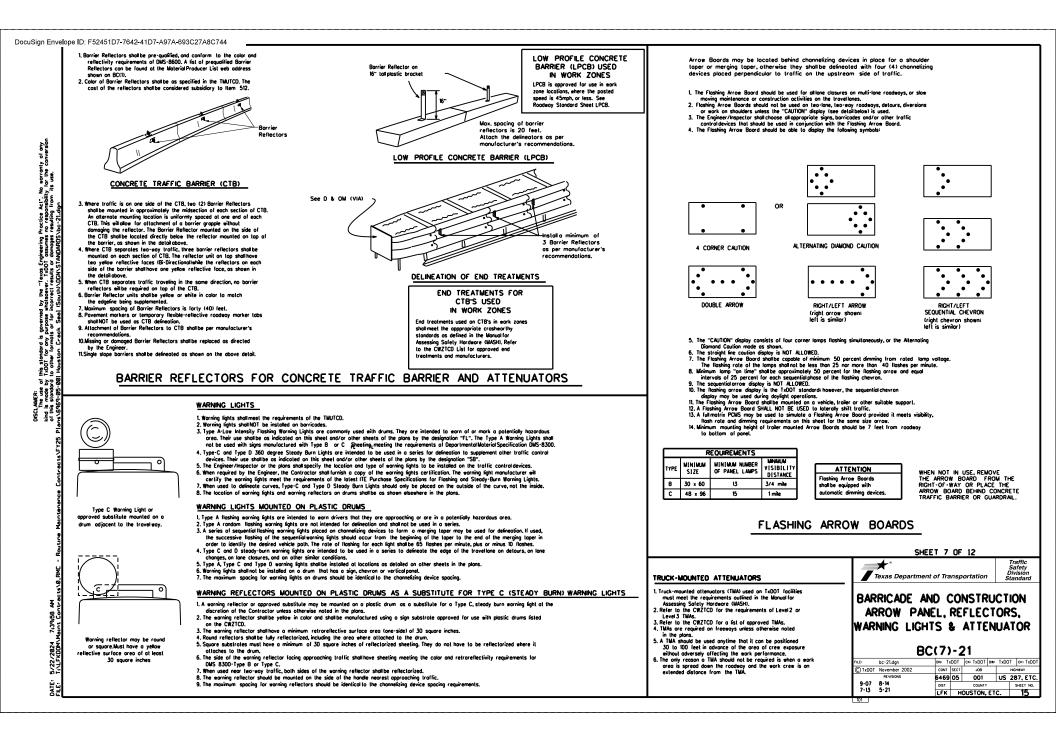
* LANES SHIFT in Phose 1 must be used with STAY IN LANE in Phose 2.

- Lumy for 2 phoses are to be used on a PLUS. 2. The stylhose for both should be selected from the "Rood/Lone/Romp Closure List" and the "Other Condition List". 3. A 2nd phose con be selected from the "Action to Toke/Effect on Travel, Location, General Worning, or Advance Nolice
- Phose Lists"
- 4. A Location Phase is necessary only if a distance or location
- is not included in the first phase selected.
 If two PCMS are used in sequence, they must be separated by a minimum of 1000 ft. Each PCMS shallbe 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

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
- oppropriate
- 3. 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.
- 6. AHEAD may be used instead of distances if necessary. 7. FT and NI, NILE and NILES 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.

| | Sireer | 21 | no more than one week prior to the work. | |
|-------------|-------------------------|------------------|--|---|
| | Sunday | SUN | | SHEET 6 OF 12 |
| _ | Telephone Temporory | PHONE | | Traffic Traffic |
| ŴY | Thursday | THURS | PCMS SIGNS WITHIN THE R.O.W. SHALL BE BEHIND GUARDRAIL OR | Safety Division |
| D | | TO DWNTN | CONCRETE BARRIER OR SHALL HAVE A MINIMUM OF FOUR (4) | Texas Department of Transportation Standard |
| VING | Iraffic | TRAF | PLASTIC DRUMS PLACED PERPENDICULAR TO TRAFFIC ON THE | |
| VING | Travelers | TRVLRS | UPSTREAM SIDE OF THE PCMS, WHEN EXPOSED TO THE TO THE | |
| | Tuesday | TUES TIME MIN | | BARRICADE AND CONSTRUCTION |
| | | UPR LEVEL | OF TRAFFIC. WHEN EXPOSED TO TWO WAY TRAFFIC, THE FOUR DRUMS | |
| | Vehicles (s) | VEH, VEHS | SHOULD BE PLACED WITH ONE DRUM AT EACH OF THE FOUR CORNERS OF THE UNIT. | PORTABLE CHANGEABLE |
| | Warning | WARN | | |
| | | WED | FULL MATRIX PCMS SIGNS | MESSAGE SIGN (PCMS) |
| | | WT LIMIT | 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 | — |
| | West Westbound | (route) 🕷 | CHANGEABLE MESSAGE SIGNS" above. | BC(6)-21 |
| | | WET PYNT | 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 | |
| ED | Will Not | WONT | shall maintain the legibility/visibility requirement fisted above. | FILE: bc-21.dgn DN: TxDOT CK: TxDOT DW: TxDOT CK: TxDOT |
| | | | 3. When symbolisions are represented graphically on the Full Matrix PCMS, they shallonly supplement the use of the static sign represented, and shall not substitute | C TxDOT November 2002 CONT SECT JOB HIGHWAY |
| | | | for, or replace that sign. 4. A full matrix PCUS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and dimming requirements on BC(7), for the | REVISIONS 6469 05 001 US 287, ETC. |
| | umber. FM-number | | A function reasoning be used to simulate a hosting arrow board provided it meets the visionity, hash rate and animing requirements on bc//r, for the some size or row. | 9-07 8-14 DIST COUNTY SHEET NO. |
| ner, 3m-riu | Annoes , roge not moved | | | 7-13 5-21 LFK HOUSTON, ETC. 14 |
| | | | | 100 |



GENERAL NOTES

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governed purpose a s or for in

this standard is T*DOT for any p to other formats

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- 1. For long term stationary work zones on freeways, drums shall be used as
- the primary channelizing device.
- if personnel are present on the project at all times to maintain the If personner or present on the project of outloads to manual the cones in proper position and location. 3. For short term stationary work zones on freeways, drums are the preferred channesizing device but may be replaced in topers, transitions and langent
- 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" (CWZTCD).
- 5. Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely offect their appearance or serviceability. 6. 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

- Pre-audified 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 shallock logether 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 (lexible, 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 shallhave 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 hales 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 while 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 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.
- stic 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 have shall be marked with manufacturer's name and model number

RETROREFLECTIVE SHEETING

- The stripes used on drums shall be constructed of sheeling meeting the color and retroreflectivity requirements of Departmenta Materials Specification DMS-8300, "Sign face Materials." Type & Ar Type B reflective sheeting shall be supplied unless otherwise specified in the planes.
- 2. 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 detominating, cracking, or loss of retroreflectivity other than that loss due to abrosion of the sheeting surfore

BALLAST

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7:39:58

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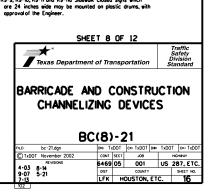
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- Unbailosted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballost material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbaas separate from the 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 pavemen surface may not exceed 12 inches.
- 2. Bases with built-in ballost shall weigh between 40 lbs. and 50 lbs. Built-in ballost can be constructed of an integratorumb 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 bollost 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 bolloms 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.
- Adhesives may be used to secure base of drums to povement.

- 18" min Hondle Too should not 9/16" dia (typ) allow collection for mounting of water or signs and P---debris worning lights 4" mox 4" min 8" mox Each drum shall have 1 (typ) a minimum of 2 arange and 2 white stripes 18" x 24" Sign using Type A or Type B (Maximum Sign Dimension) Chevron CW1-8, Opposing Traffic Lane retroreflective 2" mox sheeting with the top stripe being Ŧ Divider, Driveway sign D70a, Keep Right (lyp.) R4 series or other signs as approved by Engineer orange. Ē 눩 Plywood, Aluminum or Metal sign substrates shall NOT be used on plastic drums Toper to allow for stocking a minimum of 5 See Ballos SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED drums Note 3 ON PLASTIC DRUMS Signs used on plastic drums shall be manufactured using substrates listed on the CWZTCD. Chevrons and olher work zone signs with an arange background shallbe manufactured with Type B or Type C Orange, sheeting meeting the color and retroreflectivity requirements of DWS 88300, "Sign Face Material," unless otherwise This detail is not intended for fabrication. See note 3 and the CWZTCD list for providers of approved specified in the plans. **Detectable Pedestrian** 3. Vertical Panels shall be manufactured with arange and while sheeting meeting the requirements of DMS-8300 Type A or Type 8. Diagonal stripes on Vertical Panels shall slope down toward the intended traveled tone. Rorricodes Continuous smooth rail for hand trailing 36' 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. 5. Signs shall be installed using a 1/2 inch bolt (nominal) and nul, two washers, and one locking washer for each connection. Mounting boits and nuts shall be fully engaged and adequately torqued. Balts should not extend more than 1/2 Detectable Edge inch beyond nuts. 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) 2" Mox should be used at each location called for in the plans, DETECTABLE PEDESTRIAN BARRICADES 8. R9-9, R9-10, R9-11 and R9-11a Sidewalk Closed signs which

 - ULTECTABLE PEDESTRIAN DANKLEADES I. When existing podestrin localities or disrupted, closed, or relocated in a TTC zone, the temporary facilities shaltbe detectable and include accessibility factures consistent with the features present in the existing pedestrian locality. Refer to W20157-2016 Predestrian Control regularements for Sidewalk. Diversions, Sidewalk, Delours and Crossenik Closures. 2. Where pedestrians with visual disclubilities morifound shaltbe closed Sdewalk, o Detectable Pedestrian Barricode shaltbe of a Type 3 Barricode. 3. Detectable pedestrian barricodes similar to the one pictured doove, includide channeling davies, some concrete

 - above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily d eate a pedestrian
 - Tope, 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
 - 5. Warning lights shall not be attached to detectable pedestrian borricodes
 - borricodes. 6. Detectable pedestrian barricodes should use 8" nominal barricade rais as shown an BC(10) provided that the top railprovides a smooth continuous railsuitable for hand trailing with no splinters, burrs, or sharp edges.

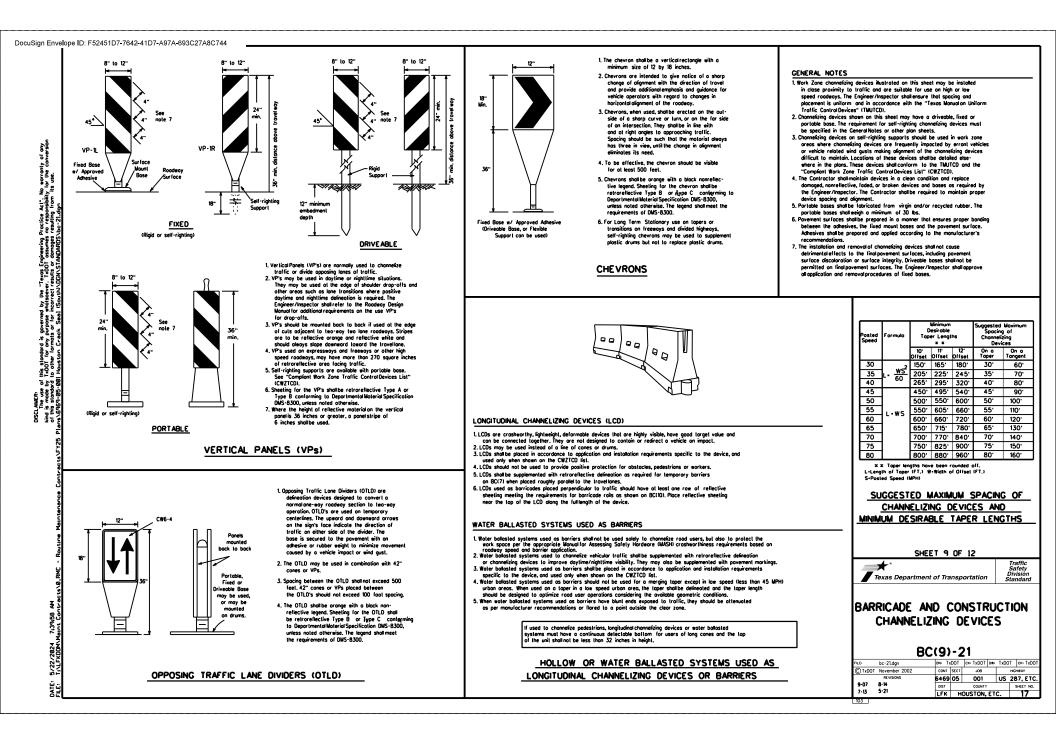


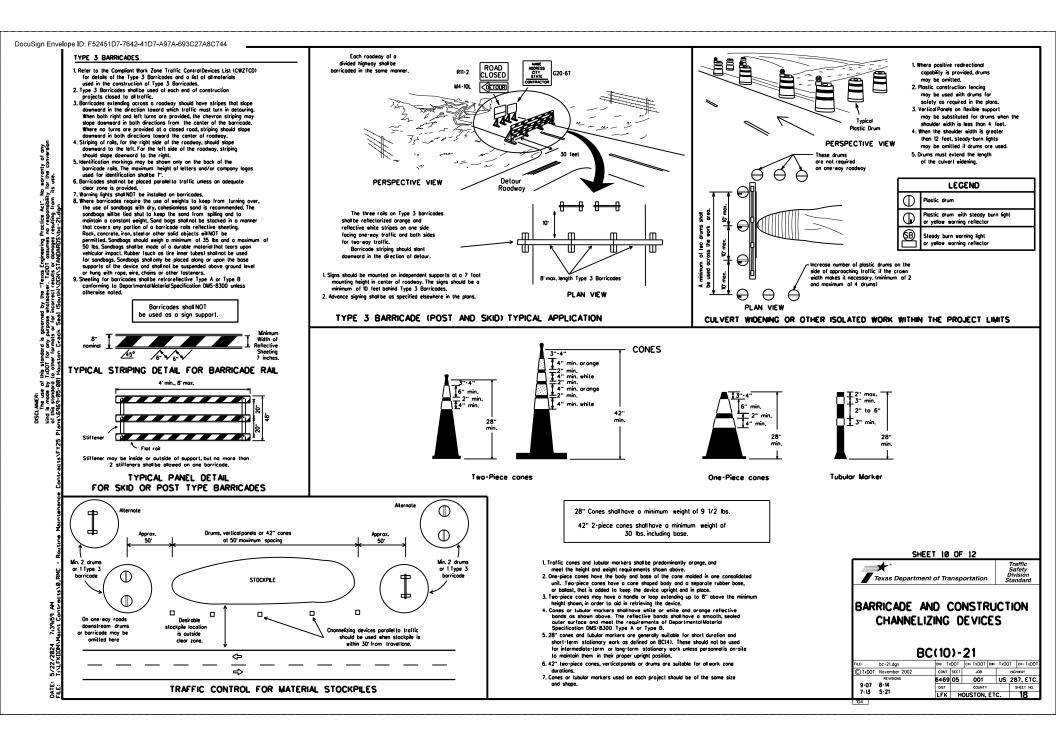
12" - 24"

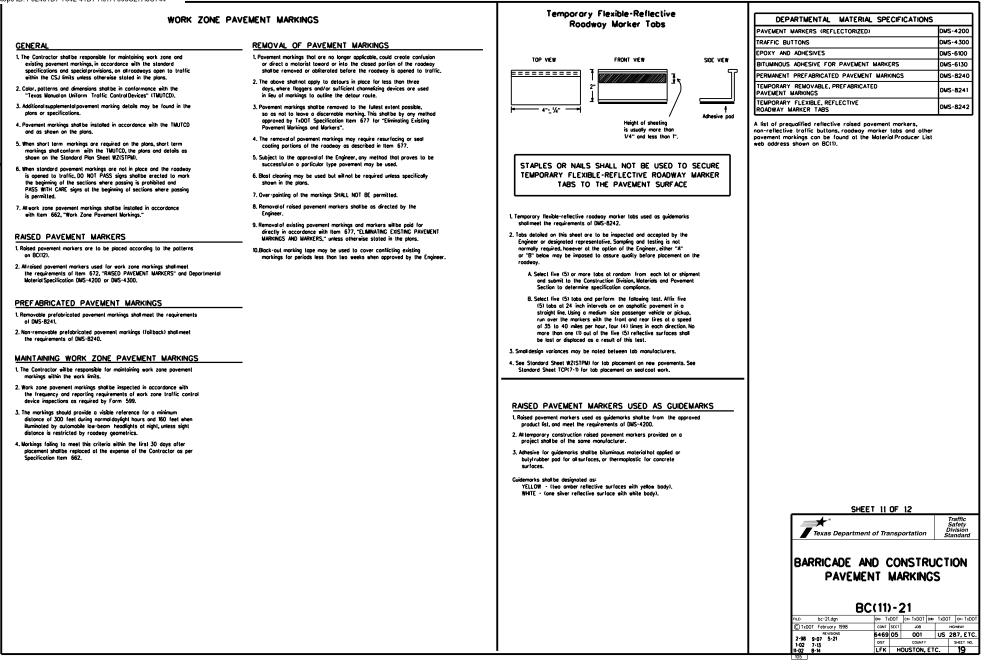
Vertical Panel

mount with diagonals sloping down towards

travel way



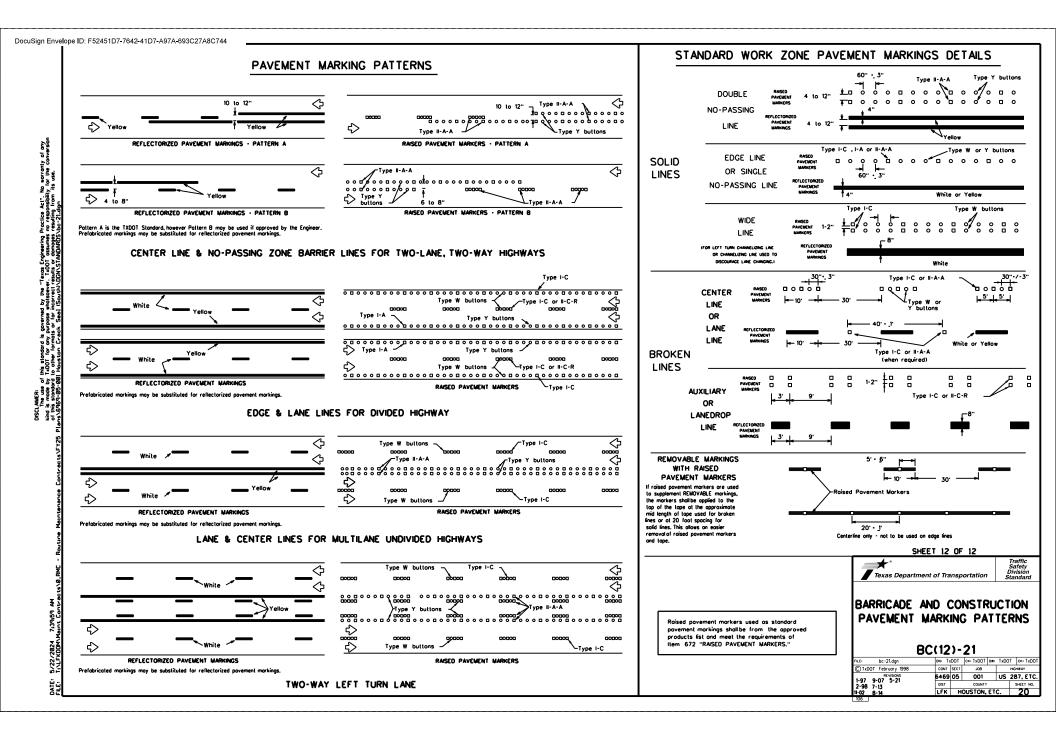


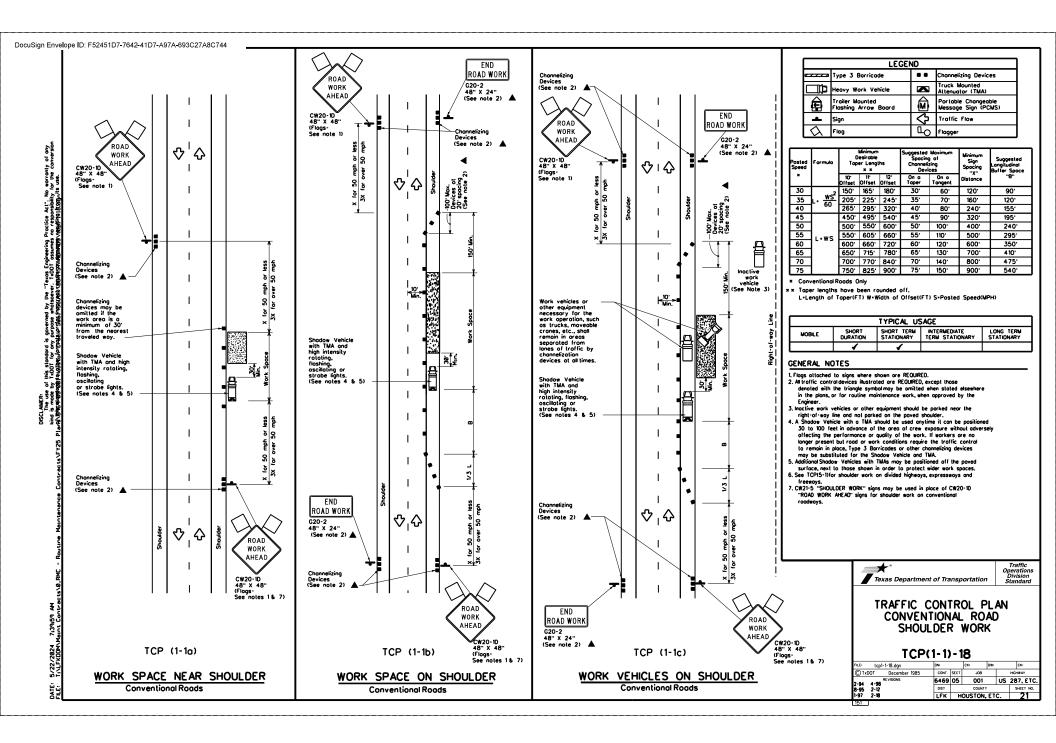


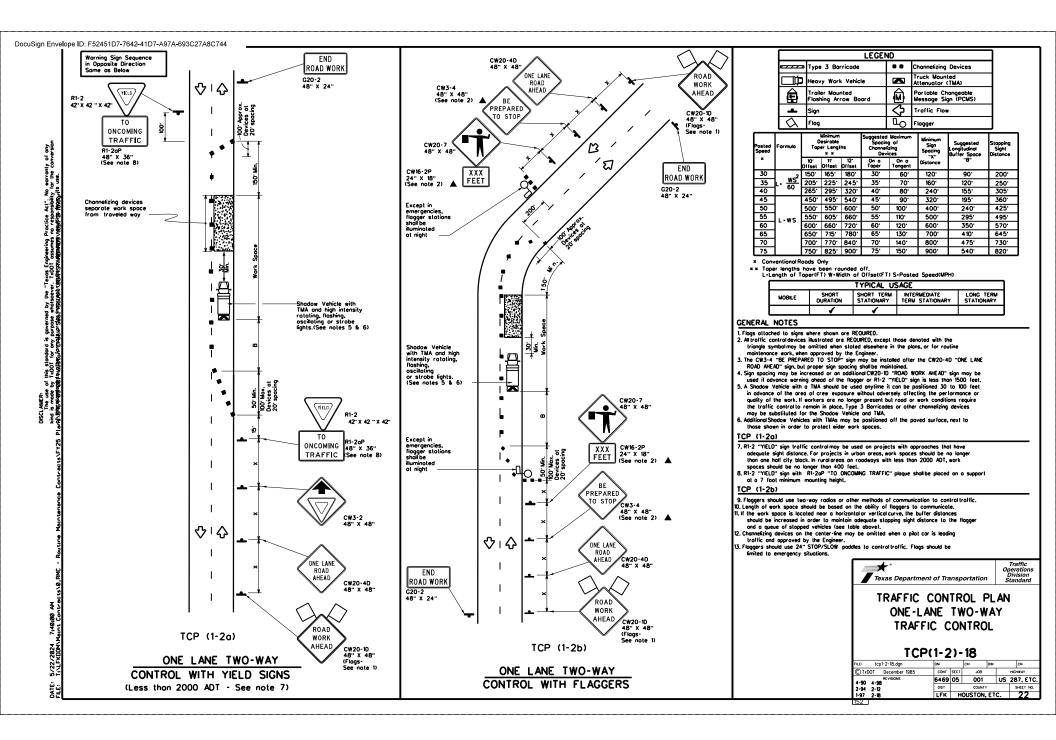
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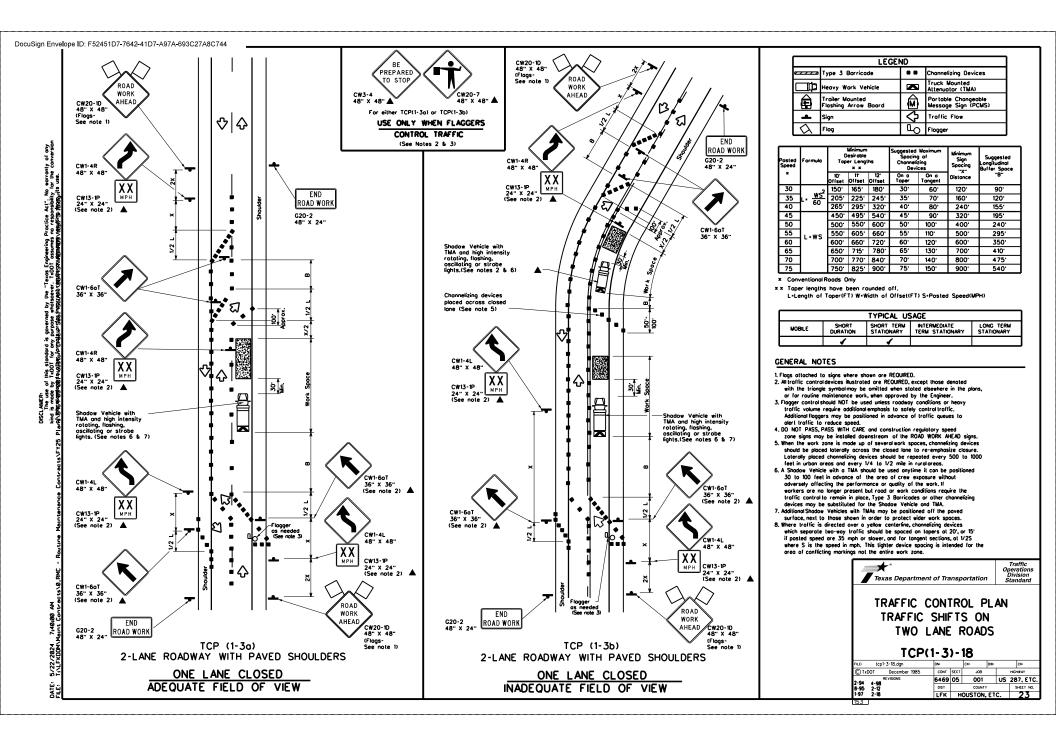
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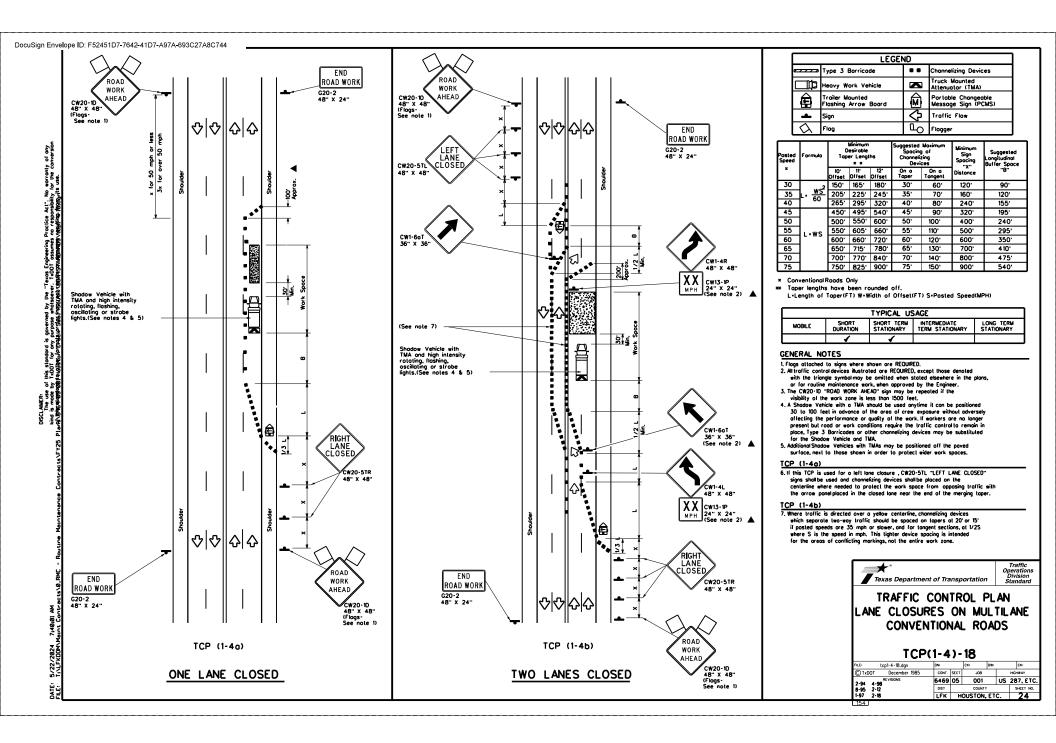
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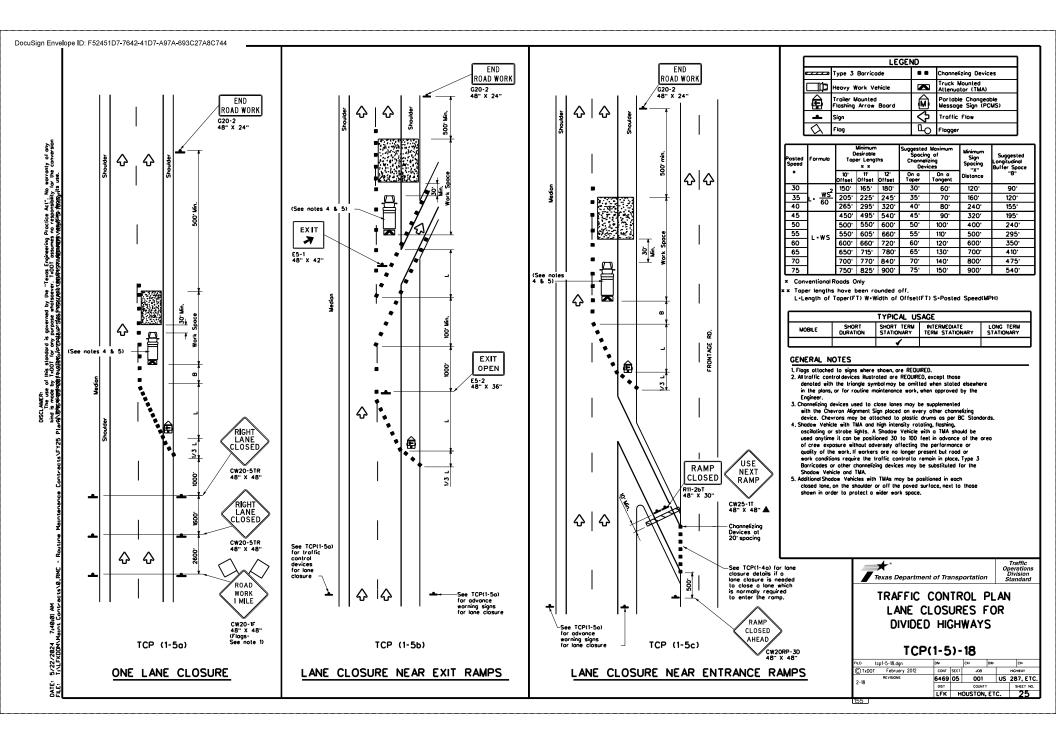


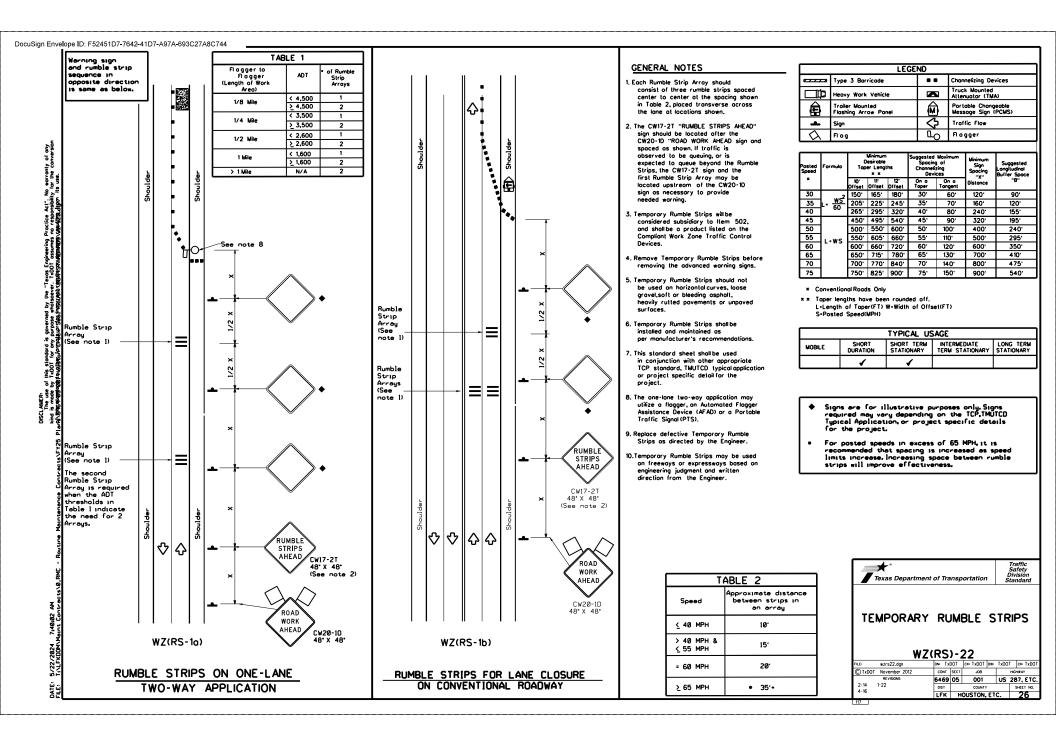












| DocuSign Enve | ope ID: F52451D7-7642-41D7-A97A | -693C27A8C744 | | 1 | | | | | | |
|---|---|--|---|---|---|--|--|--|--|--|
| | I. <u>STORNWATER POLLUTION PR</u> TPDES TXR 150000: Stormwoter required for projects with 1 or r disturbed solimust protect for e Item 506. List MS4 Operator(s) that may They may need to be notified p 1. N/A | EVENTION-CLEAN WATER A Discharge Permit or Construction more acres disturbed soit. Project prosion and sedimentation in accord receive discharges from this proje prior to construction activities. | General Permit s with any Jance with | orcheological artifacts are found at archeological artifacts (bones, burnt work in the immediate area and co local area of the start of the start of the start of the start of the start Graveton, Portion of Site 34 is with District in Coldspring. The following Action No. | | hazardous materials by conducting safety n making workers oware of potential hazards i provided with personal protective equipment Obtain and keep on-site Material Safety Dat used on the project, which may include, but Points, acids, solvents, asphalt products, che compounds or additives. Provide protected products which may be hazardous. Maintáin | (the Act) for personnel who will be working with neekings prior to beginning construction and in the workplace. Ensure that all workers are appropriate for any hazardous materials used. o Sheets (MSDS) for all hazardous products are not limited to the following categories: mical additives, fuels and concrete curing storage, off bore ground and covered, for product lobelling as required by the Act. | | | |
| rorranty of c the conve | No Action Required Action Required Action No. Interproposed work of this project consists of the cleaning and sealing of cracks on existing roadway payement at various locations shown in the plans within Houston, Trinity, Polk, and San Jacitto County Maintenance Sections. This activity maintains the originaline and grade, hydraulic capocity and ariginalinguppose of the site. Therefore, this project mests the definition of a routine maintenance activity as defined in the TPOES General Permit No. TXR150000 issued March 5, 2023 and TCEO's TPDES CCP does not apply. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER LSCE Permit required for filling, dredging, escavating or other work in any woler badies, fivers, creeks, streams, wetlands or wet areas. The following permit(s): Not Permit Required Notionwide Permit 14 - PCN not Required (1/10 to <1/2 acre, 1/3 in tidal waters) | | | porking area labelled as historical n | ñarkers, buildings, or property. | Maintain an adequate supply of on-site spillresponse materials, as indicated in the MSDS. In the event of a spill, take actions to miligate the spill as indicated in the MSDS, in accordance with sole work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all praduct spills. | | | | |
| texos Engineering Procitice Act". No ≢ . 15001 ossumes no responsibily (no BDM+60460996801.geplE02C/ABCA-554. | | | | 164, 192, 193, 506, 730, 751, 752 in | extent practical. uction Specification Requirements Specs 162, order to comply with requirements for ing, and tree/brush removal commitments. | Contact type: Contact the Engineer if any of the following are detected: • Dead or distressed vegetation (not identified as normal) • Trash piles, drums, consister, barrels, etc. • Undesirable smells or addors • Evidence of leaching or seepage of substances Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culver(s)? Yes No If "No", then no further action is required. If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection. Are the results of the abstats inspection positive (is asbestos present)? | | | | |
| governed by the " urpose whotsoever ExorSe6.intenG(Ath)(| | | | ured for filling, dredging, excavaling or other work in any rs, creeks, streams, wellands or wel areas. Ust othere to all of the terms and conditions associated with mit(s): | | | icensed asbestos consultant to assist with in procedures, and perform management m to DSHS must be postmorked at least an. | | | |
| si bo Borgisi Borgisi | No Permit Required | | | If any of the listed species are obs do not disturb species or habitat an | erved, cease work in the immediate area, Id contact the Engineer immediately. | If "No", then TxDOT is still required to notil | | | | |
| s standor 001 for o 1615960/P | - | Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or | | | Action Required | scheduled demolition. In either case, the Contractor is responsible activities and/or demolition with careful coor | | | | |
| ISCLANNER: The use of In and is mode by Ts Libring skaged oggite | Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidalwaters) Base Individual 404 Permit Required Early Other Nationwide Permit Required: NWP* | | | to the ROW along the following roadw upon by the USFWS and TxDOT to en | sted endangered species) cluster is present adjocent oys below Conservation measures have been agreed sure that the proposed action will not adversely affect nservation measures below must be followed in order | instruction deloys and subsequent claims. dous materials or contamination discovered on Issues Specific to this Project: Action Required | | | | |
| 5 Plant C | | the US permit applies to, location actices planned to control erosion, s | | Site 3: FM 1733 from 0.20 mile north | n of SH 7 to 0.70 mile north of SH 7. | Action No. 1. N/A | | | | |
| LF Y 2 | 1, N/A | | | Site 11: SH 7 from 1.25 mile west of 0.90 mile east of CR 1160 to 1.25 mil | CR 1160 to 2.75 mile west of CR 1160 and from e east of CR 1160. | | | | | |
| on trac ts | | | | | of the West intersection of FM 357/2262 to 1.75 mile 57/2262. | VII. <u>OTHER ENVIRONMENTAL ISSUES</u> Portions of the following roadways occur within the boundaries of the U.S. Forest Service Property and require the following actions: | | | | |
| e Meintenance Co | C The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts. Best Management Practices: | | NO WORK shall be performed on (July 31, WORK shall begin one hour ofter s sunset. NO STOCKPILES or EQUIPMENT S ROW along (highway or location) | survise and cease one hour before TORAGE shall be allowed along or within the | Sile 3: FM 1733 Davy Crockett National Forest Sile 11: 54 7 Davy Crockett National Forest Sile 12: 54 7 Davy Crockett National Forest Sile 20: FM 357 Davy Crockett National Forest Sile 20: FM 357 Davy Crockett National Forest Sile 25: FM 3317 Davy Crockett National Forest Sile 35: FM 357 Davy Crockett National Forest Sile 35: FM 357 Davy Crockett National Forest Sile 35: FM 357 Davy Crockett National Forest Sile 35: FM 355 Som Houston National Forest Sile 40: FM 3051 Som Houston National Forest | | | | | |
| ct o | | | | | | | tion Required | | | |
| - 1 | Erosion | Sedimentation | Post-Construction TSS | | | Action No. | | | | |
| RMC | Temporary Vegelation | Silt Fence | Vegetalive Filter Strips | | | 1. Area Engineer shall notify the Davy Crockett National Forest and Sam Houston National Forest ariar to commencing | Texas Department of Transportation | | | |
| ts \0 | Blankets/Walling | Rock Berm | Retention/Irrigotion Systems | | | National Forest prior to commencing work on the above roadways. 2 NO stocknilling or storage of materials | | | | |
| PM | Mulch | Triangular Filter Dike | Extended Detention Basin Constructed Wetlands | | | NO stockpiling or storage of materials and equipment within the boundaries of the Davy Crockett National Forest and Sam Hauston National Forest. | EPIC | | | |
| 1 00 38 1 00 38 | interceptor Swole | Strow Bale Dike | Wet Bosin | | OF ABBRE VIATIONS | | (ENVIRONMENTAL PERMITS, | | | |
| 024 II::10:38 KDDMMeint Cor | Diversion Dike Erosion Control Compost Mulch Filter Berm and Socks | Brush Berms Erosion Control Compost Ukulch Filter Berm and Socks | Erosian ControlCompost Mulch Filter Berm and Socks Compost Filter Berm and Socks | BMP: Best Monogement Proctice COP: Construction Cenerol Pernit DSHS: Texos Deportment of Stote Health I FHMM: Federal Highway Administration MO4: Memorandum of Agreement MO4: Memorandum of Understanding | PSL: Project Specific Location TCEC: Texas Commission on Environmental Quality | | ISSUES AND COMMITMENTS) | | | |
| DATE: 6/3/2024 FILE: T:/LFKDOM | Compost Filter Berm and Socks | Compost Filter Berm and Socks | Vegetation Lined Ditches Sand Filter Systems Crossy Seales | MS4: Municipol Separate Starmwaîter Sew MBTA: Migratory Bird Treaty Act NOT: Notice of Termination NMP: Nationwide Permit | TPDES: Texos Polluton Discharge Dimination System er System TPMD: Texos Porks and Wild ife Deportment TxDDT: Texos Deportment of Transportation TME: Threatened and Endangered Species USACE: U.S. Army Corps of Engineers | | FEE: spic.dgn dwir Tx001 cox RC gwr VP cox AR © Tx001F February 2015 coxri Tscr1 .08 Hexewar | | | |
| 25 | | | | NCI≑ Notice of Intent | USFWS: U.S. Fish and Wildlife Service | | to item 506, ADDED GRASSY SWALES. | | | |