STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT NO. C 26-4-48, Etc.
FOR THE CONSTRUCTION OF CURB RAMPS
CONSISTING OF CONSTRUCTION OF CURB RAMPS, SIDEWALKS AND MISCELLANEOUS PEDESTRIAN ELEMENTS

FEDERAL AID PROJECT NO.			
C 26-4-48, Etc.			
CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		1

US 77 / UA 90 (CSJ: 0269-02-067)
LMITS: FROM 0.04 MI EAST OF US 77 S TO US 77 N
PROJECT NO: C 269-2-67

US 90 (CSJ: 0026-04-048)
LMITS: FROM WEIMAR HS TO N GROHMANN ST.
PROJECT NO: C 26-4-48

SH 95(CSJ: 0323-03-034)
LMITS: FROM IH10 FRT. RD TO US 90
PROJECT NO: C 323-3-34

US 87 (CSJ: 0143-09-071)
LMITS: FROM PARK HEIGHTS TO CL DUCKETT DR
PROJECT NO: C 143-9-71

UA 77 / UA 90 (CSJ: 0269-03-040)
LMITS: FROM LAY STREET TO US 77 S
PROJECT NO: C 269-3-40

US 77 / UA 90 (CSJ: 0370-01-040)
LMITS: FROM US 77 S TO 0.04 MI EAST OF US 77 S
PROJECT NO: C 370-1-40

US 183 (CSJ: 0269-06-060)
LMITS: FROM NORTH ST. TO US 87 (BROADWAY ST.)
PROJECT NO: C 269-6-60

UA 90 (CSJ: 0446-01-054)
LMITS: FROM US 77 N TO S JUDY STREET
PROJECT NO: C 446-1-54

US 77A (CSJ: 0269-04-041)
LMITS: FROM UPRR TO DEWITT C/L
PROJECT NO: C 269-4-41

US 77A (CSJ: 0269-05-037)
LMITS: FROM SH 111 TO LAVACA C/L
PROJECT NO: C 269-5-37

BEGIN PROJECT
SH 95 - STA 203+50.00
CONT 0323-03-034
RM 496 +1.271 MI

END PROJECT
SH 95 - STA 232+50.00
CONT 0323-03-034
RM 496 +1.820 MI

BEGIN PROJECT
US 77A - STA 844+50.00
CONT 0269-04-041
RM 512 -0.106 MI

END PROJECT
US 77A - STA 868+00.00
CONT 0269-04-041
RM 514 +0.000 MI

BEGIN PROJECT
US 77A - STA 868+00.00
CONT 0269-05-037
RM 514 +0.000 MI

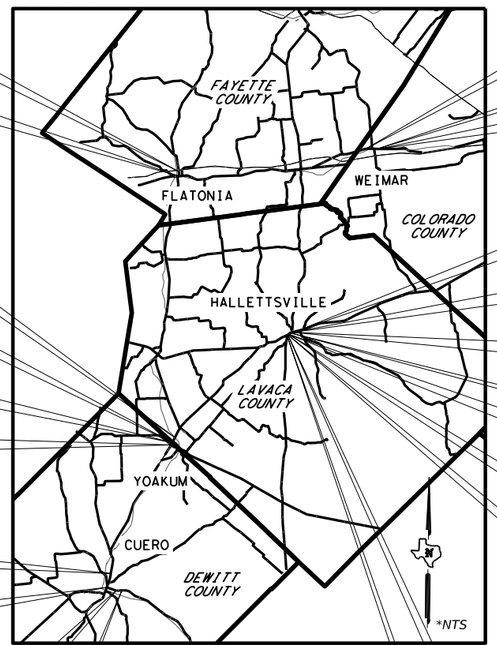
END PROJECT
US 77A - STA 888+00.00
CONT 0269-05-037
RM 514 +0.378 MI

BEGIN PROJECT
US 183 - STA 1689+00.00
CONT 0269-06-060
RM 608 +0.017 MI

END PROJECT
US 183 - STA 1748+00.00
CONT 0269-06-060
RM 608 +1.134 MI

BEGIN PROJECT
US 87 - STA 9+00.00
CONT 0143-09-071
RM 782 +0.660 MI

END PROJECT
US 87 - STA 52+00.00
CONT 0143-09-071
RM 782 +1.475 MI



END PROJECT
US 90 - STA 830+50.00
CONT 0026-04-048
RM 744 -0.859 MI

EQUATION
STA 782+80.00 (AH) =
STA 759+49.72 (BK) (+2330.28)

BEGIN PROJECT
US 90 - STA 756+00.00
CONT 0026-04-048
RM 744 +0.110 MI

END PROJECT
UA 90 -
STA 641+50.00
CONT 0446-01-054
RM 590 +0.220 MI

BEGIN PROJECT
UA 90 -
STA 614+00.00
CONT 0446-01-054
RM 532 -0.361 MI

END PROJECT
US 77 / UA 90 -
STA 614+00.00
CONT 0269-02-067
RM 532 -0.361 MI

EQUATION
STA 600+23.23 (AH) =
STA 600+11.36 (BK) (+11.87)

BEGIN PROJECT
US 77 / UA 90 -
STA 582+64.00
CONT 0269-02-067
RM 532 +0.230 MI

END PROJECT
US 77 / UA 90 -
STA 582+64.00
CONT 0370-01-040
RM 532 +0.230 MI

BEGIN PROJECT
US 77 / UA 90 -
STA 580+00.00
CONT 0370-01-040
RM 496 -0.041 MI

END PROJECT
UA 77 / UA 90 -
STA 580+00.00
CONT 0269-03-040
RM 496 -0.041 MI

BEGIN PROJECT
UA 77 / UA 90 -
STA 572+00.00
CONT 0269-03-040
RM 496 +0.110 MI

US 90 (CSJ: 0026-04-048)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 5,119.72 FT = 0.969 MI

US 87 (CSJ: 0143-09-071)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 4,300.00 FT = 0.814 MI

US 183 (CSJ: 0269-06-060)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 5,900.00 FT = 1.117 MI

SH 95 (CSJ: 0323-03-034)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 2,900.00 FT = 0.549 MI

UA 77 / UA 90 (CSJ: 0269-03-040)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 800.00 FT = 0.151 MI

US 77 / UA 90 (CSJ: 0370-01-040)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 264.00 FT = 0.050 MI

US 77 / UA 90 (CSJ: 0269-02-067)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 3,124.13 FT = 0.591 MI

UA 90 (CSJ: 0446-01-054)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 2,750.00 FT = 0.520 MI

US 77A (CSJ: 0269-04-041)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 2,350.00 FT = 0.445 MI

US 77A (CSJ: 0269-05-037)
TYPE OF WORK: CURB RAMP AND SIDEWALK IMPROVEMENTS
HWY FUNCTION: N/A
DESIGN SPEED: N/A
ADT: N/A
TOTAL LENGTH = 2,000.00 FT = 0.378 MI

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
	(SEE SHEET 2 FOR INDEX OF SHEETS)

REGISTERED ACCESSIBILITY SPECIALIST INSPECTION REQUIRED -

TDLR NO. TABS2024001411 (CSJ: 0026-04-048)(US 90)
TDLR NO. TABS2024001412 (CSJ: 0269-02-067 ETC.)(US 77 / UA 90)
TDLR NO. TABS2024001414 (CSJ: 0269-04-041 ETC.)(US 77A)
TDLR NO. TABS2024001795 (CSJ: 0323-03-034)(SH 95)
TDLR NO. TABS2024001784 (CSJ: 0143-09-071)(US 87)
TDLR NO. TABS2024001791 (CSJ: 0269-06-060)(US 183)

LETTING DATE: _____
DATE CONTRACTOR BEGAN WORK: _____
DATE WORK WAS COMPLETED & ACCEPTED: _____
FINAL CONTRACT COST: $
CONTRACTOR: _____
LIST OF APPROVED FIELD CHANGES:

THIS IS TO CERTIFY THAT THE CONSTRUCTION WORK WAS PERFORMED IN ACCORDANCE WITH THE PLAN, CONTRACT, AND LISTED FIELD CHANGES.

P.E.

AREA ENGINEER *DATE*

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/12/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

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 2023)

EQUATION: (CSJ: 0026-04-048)
STA 782+80.00 (AH) =
STA 759+49.72 (BK) (+2330.28)

EQUATION: (CSJ: 0269-02-067)
STA 600+23.23 (AH) =
STA 600+11.36 (BK) (+11.87)

COLORADO, LAVACA, FAYETTE, DeWITT COUNTY
YOAKUM DISTRICT

SUBMITTED FOR LETTING: 6/12/2024
PROJECT MANAGER

RECOMMENDED FOR LETTING: 6/13/2024
DocuSigned by: Jeffery Vinklarek, P.E.
DISTRICT DIRECTOR OF TRANSPORTATION PLANNING AND DEVELOPMENT

APPROVED FOR LETTING: 6/13/2024
DocuSigned by: Martin C. Horsley PE
DISTRICT ENGINEER

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DATE: 6/12/2024 7:19:23 AM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\415832-14 YKM Sidewalks Hallettsville, Cuero etc\03 CADD\01_Shts\00-GENYKM14_TITLE.dgn

INDEX OF SHEETS

* SHEET ADDED BY TxDOT

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

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

Angela Renger

6/10/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

INDEX OF SHEETS

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		2

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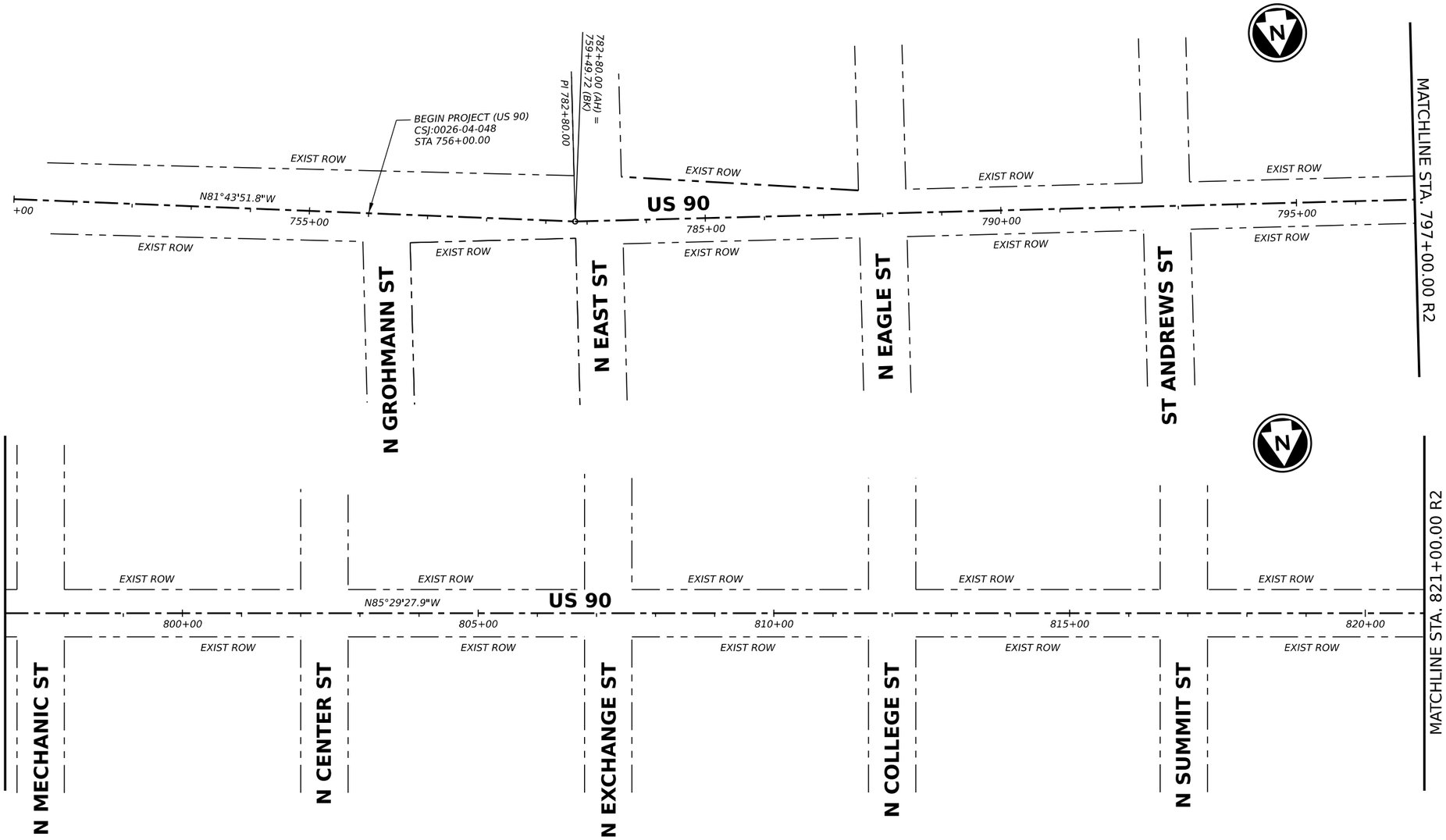

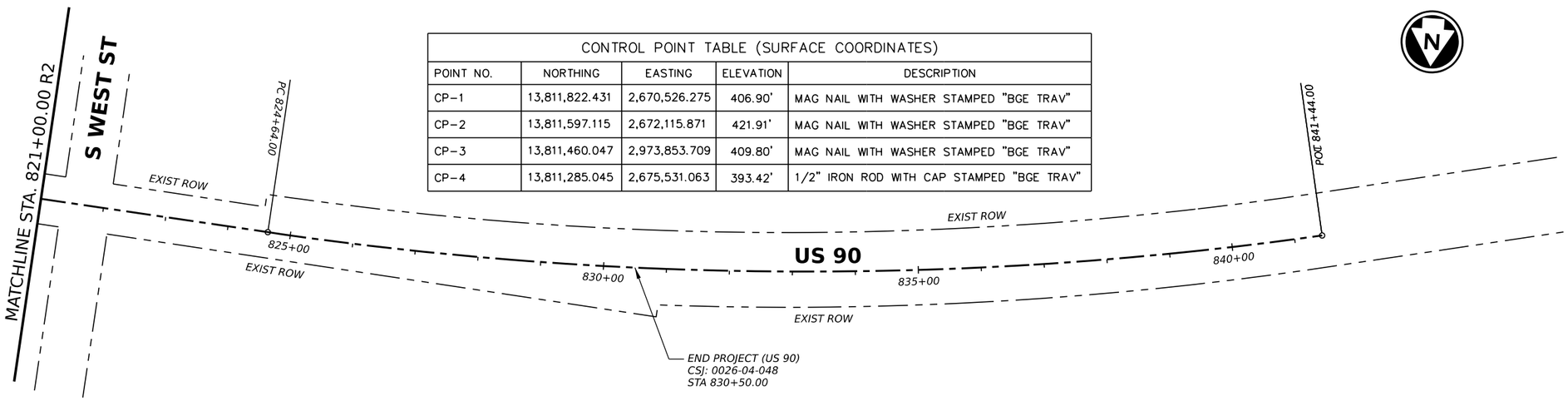

CONTROL POINT TABLE (SURFACE COORDINATES)				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	13,811,822.431	2,670,526.275	406.90'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-2	13,811,597.115	2,672,115.871	421.91'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-3	13,811,460.047	2,973,853.709	409.80'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-4	13,811,285.045	2,675,531.063	393.42'	1/2" IRON ROD WITH CAP STAMPED "BGE TRAV"

0 100 200
SCALE: 1" = 200'

STATE OF TEXAS
ANGELA K. RENGER
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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

PROJECT LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		3

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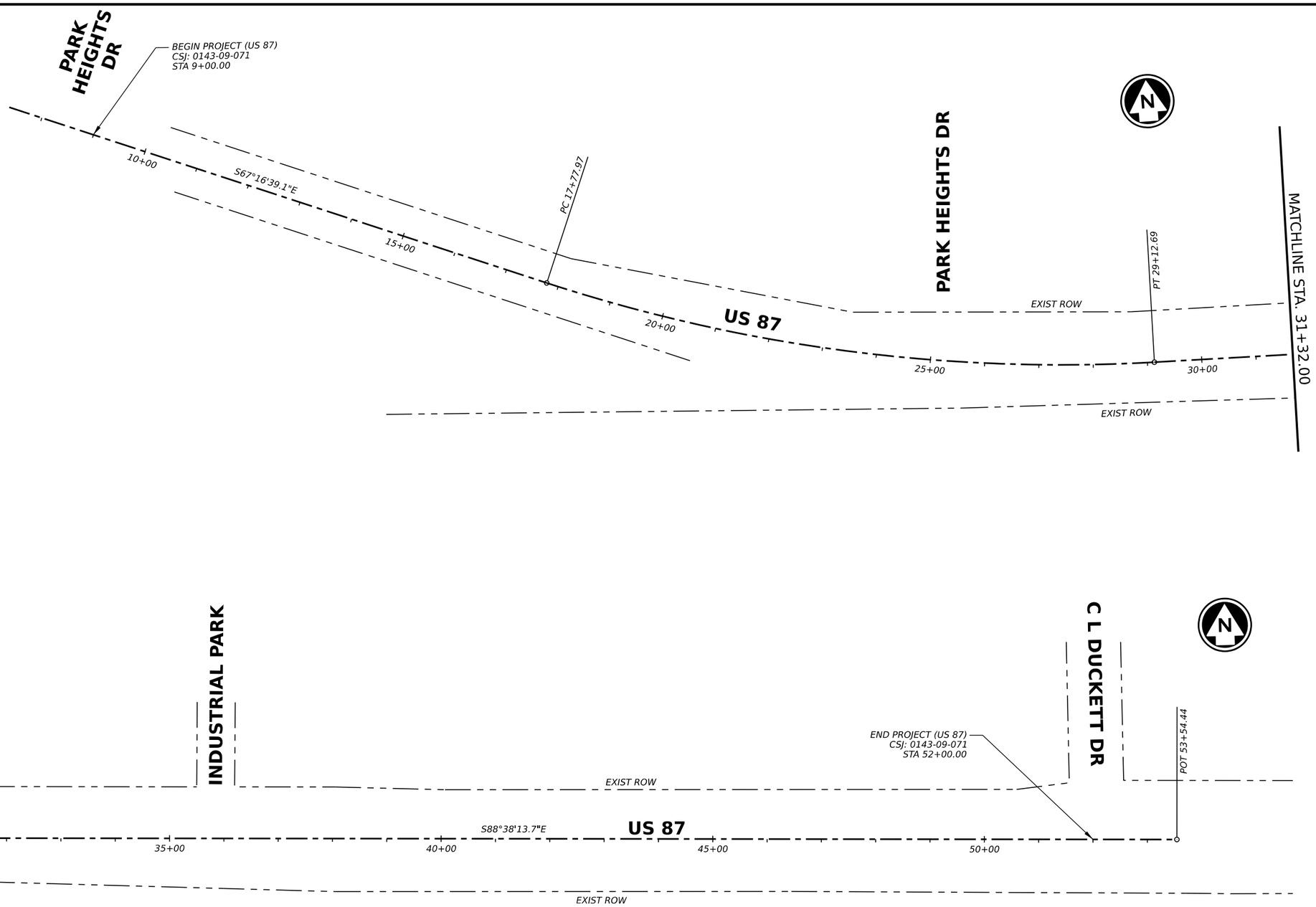

CONTROL POINT TABLE (SURFACE COORDINATES) FOR US 87 AND US 183				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	13,585,847.653	2,518,325.027	216.46'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INCCONTROL 1"
CP-2	13,587,386.248	2,514,787.459	183.32'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INCCONTROL 2"
CP-3	13,590,533.405	2,516,278.157	195.64'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INCCONTROL 3"
CP-4	13,593,781.306	2,517,399.483	215.27'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INCCONTROL 4"
CP-5	13,585,437.145	2,522,706.772	210.19'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INCCONTROL 5"
CP-6	13,585,485.666	2,520,036.016	217.95'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INCCONTROL 6"
CP-50	13,585,989.272	2,518,584.504	220.17'	CHISELLED "X" IN CONCRETE
CP-51	13,585,089.117	2,522,722.421	210.52'	CHISELLED "X" IN CONCRETE
CP-52	13,585,815.455	2,520,176.033	220.13'	CHISELLED "X" IN CONCRETE
CP-53	13,587,557.830	2,514,635.611	182.20'	CHISELLED "X" IN CONCRETE
CP-54	13,590,360.189	2,515,914.329	194.02'	CHISELLED "X" IN CONCRETE
CP-55	13,593,131.160	2,517,140.590	210.90'	CHISELLED "X" IN CONCRETE

STATE OF TEXAS
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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

PROJECT LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		4

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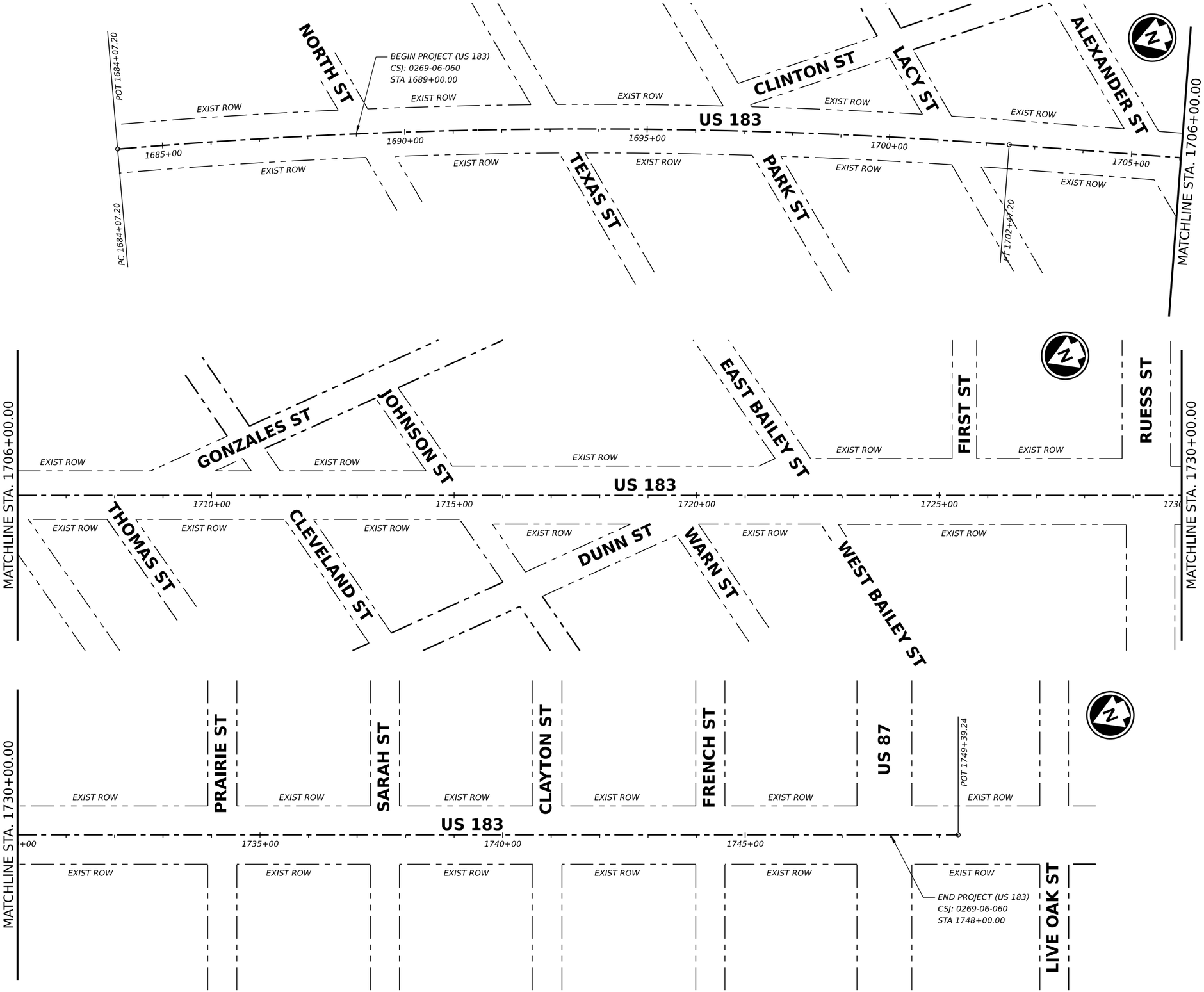

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CK: DW: CC: DW:

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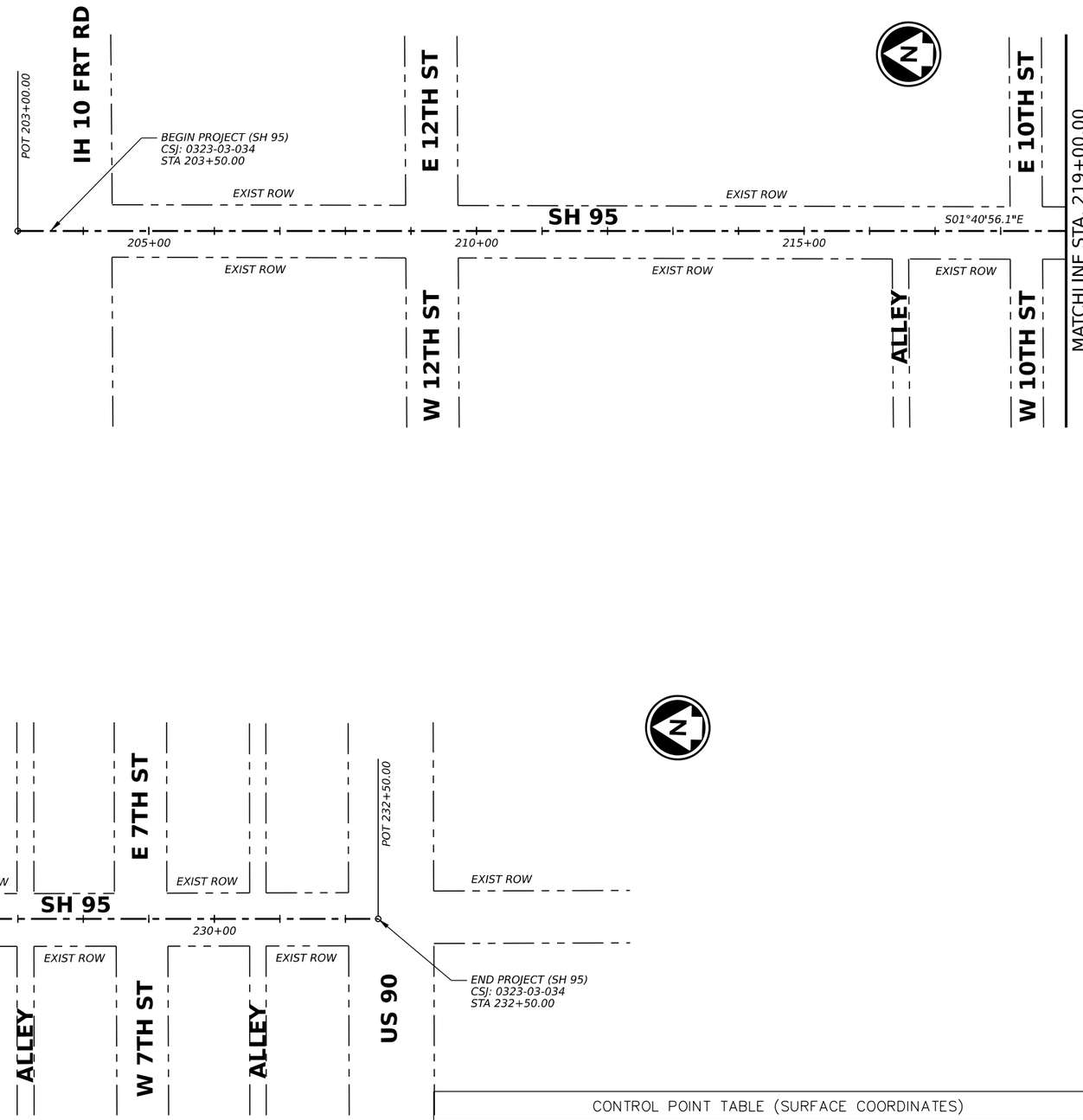
Texas Department of Transportation

YKM DISTRICT SIDEWALKS

PROJECT LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		5



CONTROL POINT TABLE (SURFACE COORDINATES)

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-5	13,804,355.922	2,571,020.157	459.24'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-15	13,804,193.066	2,569,339.500	454.03'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-16	13,807,259.535	2,569,357.390	427.72'	1/2" IRON ROD WITH CAP STAMPED "BGE TRAV"
CP-17	13,805,692.129	2,569,291.321	436.77'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

PROJECT LAYOUT
SH 95 FLATONIA
CSJ: 0323-03-034

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		6

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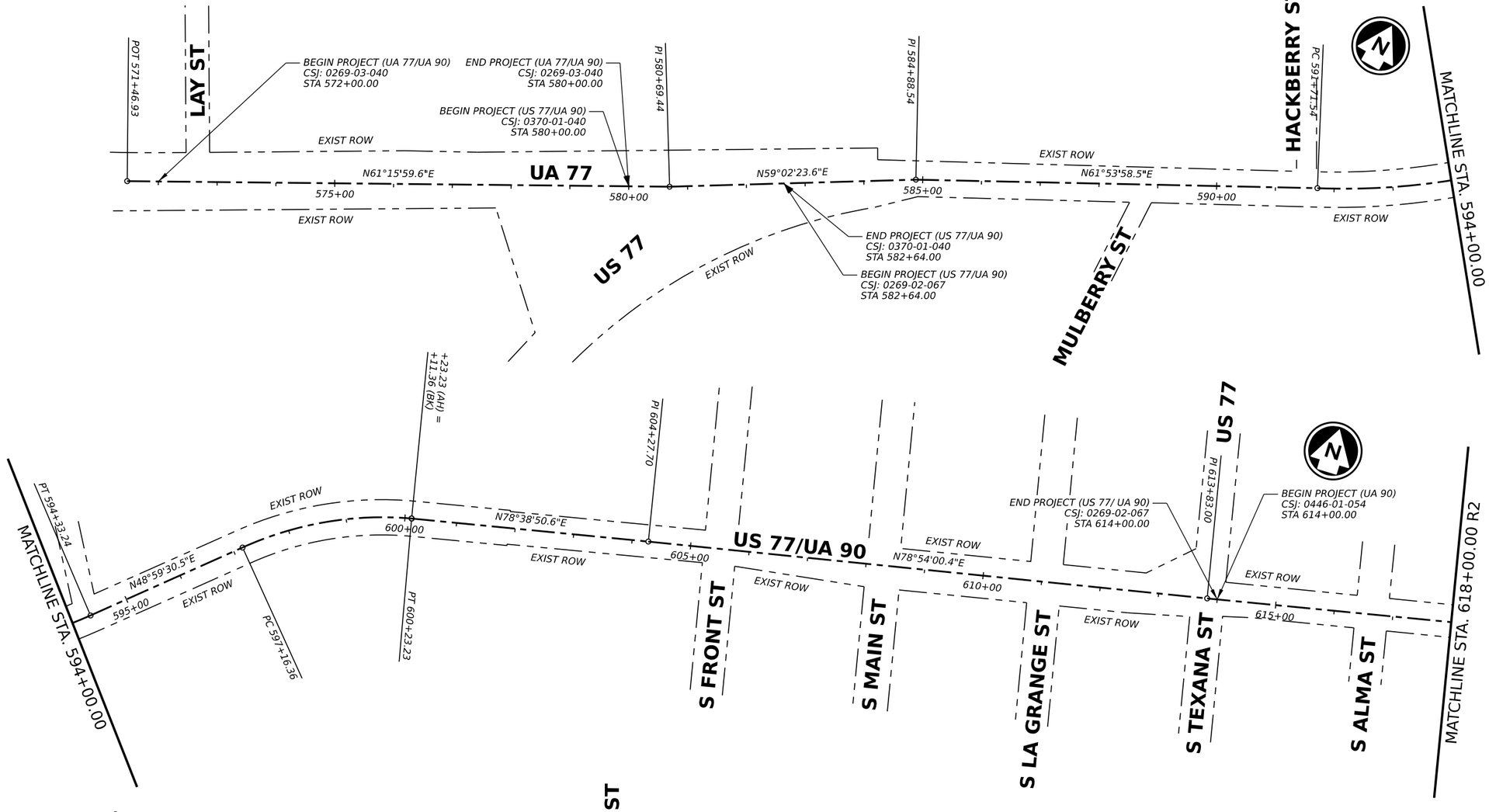

0 100 200
SCALE: 1" = 200'

CONTROL POINT TABLE (SURFACE COORDINATES)				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	13,715,106.224	2,620,873.866	238.10'	1/2" IRON ROD WITH CAP STAMPED "BGE TRAV"
CP-2	13,715,949.413	2,622,210.412	218.96'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-3	13,716,377.554	2,623,229.277	219.27'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"

CONTROL POINT TABLE (SURFACE COORDINATES)				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-4	13,716,507.501	2,623,974.575	230.91'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-5	13,716,793.793	2,625,335.710	235.62'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-6	13,717,067.860	2,626,728.792	231.84'	1/2" IRON ROD WITH CAP STAMPED "BGE TRAV"

STATE OF TEXAS
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Angela Renger
6/4/2024

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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

PROJECT LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		7

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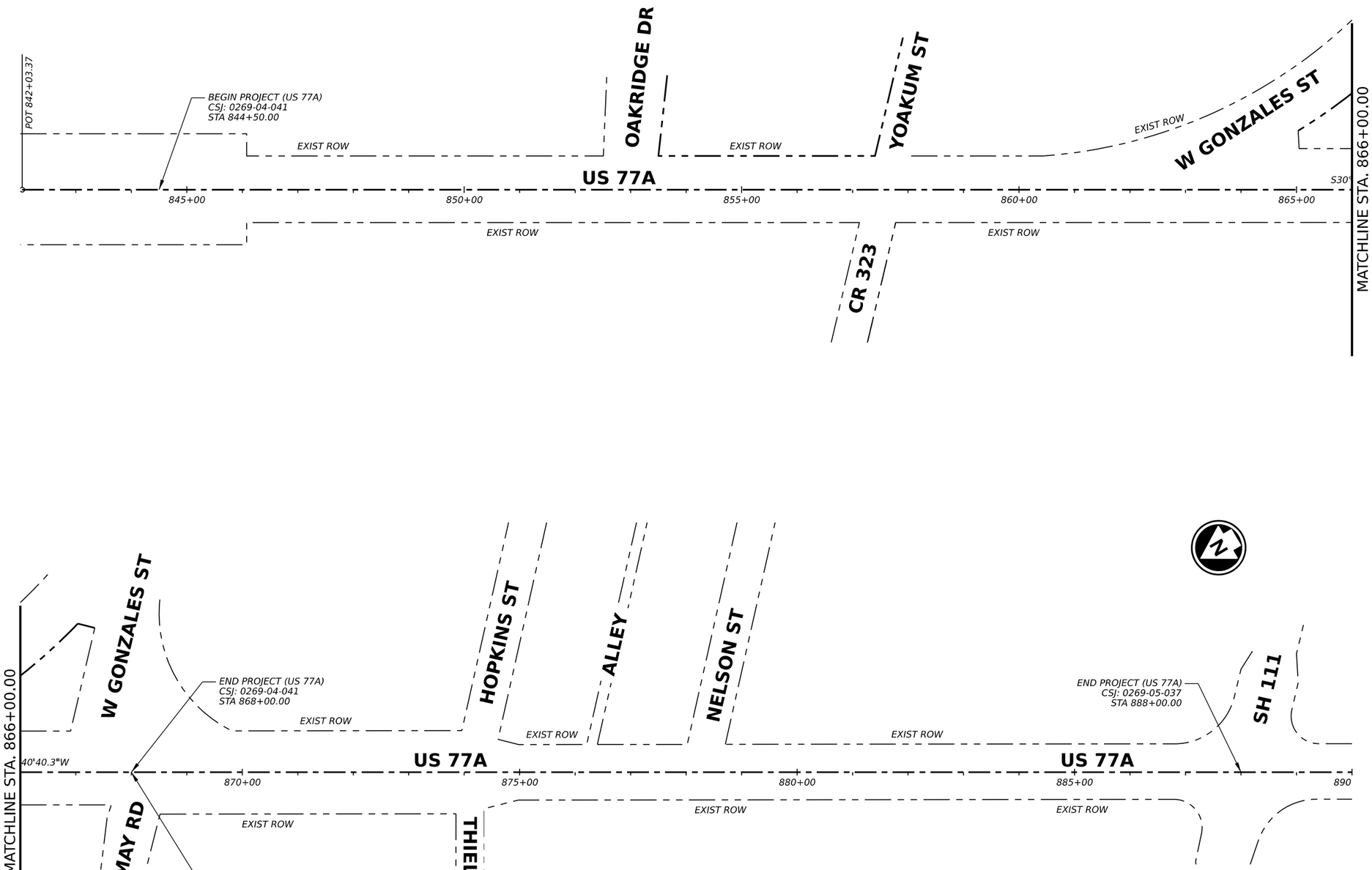

CONTROL POINT TABLE (SURFACE COORDINATES)				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP-1	13,661,239.039	2,554,989.929	315.51'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INC CONTROL" IN CONCRETE
CP-2	13,663,561.476	2,556,393.284	332.92'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INC CONTROL" IN CONCRETE
CP-3	13,664,726.677	2,556,999.350	296.70'	1/2" IRON ROD WITH ALUMINUM CAP STAMPED "BGE INC CONTROL" IN CONCRETE
CP-4	13,660,985.038	2,555,270.081	308.40'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-5	13,663,279.388	2,556,707.023	336.44'	MAG NAIL WITH WASHER STAMPED "BGE TRAV"
CP-6	13,665,262.180	2,557,172.181	306.21'	1/2" IRON ROD WITH CAP STAMPED "BGE TRAV"

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

PROJECT LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		8

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FILE: G:\TXCI\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01_Shts\03-RDWY\YKM14_YOAKUM_PRJ_01.dgn

GENERAL:

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

Ryan Simper Ryan.Simper@txdot.gov
Paul Rodriguez Jr. Paul.Rodriguez@txdot.gov

Contractor questions will be accepted through email, phone, and in person by the above individuals.

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.

Contractor to protect any fences, buildings, structures, private signs, etc. near construction.

PROTECTION NOTES FOR THE REMOVAL OF EXISTING PAVEMENT, CURB, OR SIDEWALK AND CONSTRUCTION OF NEW PAVEMENT, CURB, OR SIDEWALK ADJACENT TO HISTORIC BUILDINGS, MATERIALS, FENCE AND RETAINING WALLS:

In Weimar, Texas (Colorado Co.):
- US 90 (CCSJ:0026-04-048)

In Flatonia, Texas (Fayette Co.):
- SH 95 (CSJ:0323-03-034)

In Yoakum, Texas (DeWitt/Lavaca Co.):
- US 77A (CSJ:0269-05-037)
- US 77A (CSJ:0269-04-041)

In Hallettsville, Texas (Lavaca Co.):
- US 77 / US 90A (CSJ:0269-03-040)
- US 77 / US 90A (CSJ:0370-01-040)
- US 77 / US 90A (CSJ:0269-02-067)
- US 77 / US 90A (CSJ:0446-01-054)

Project Number: **Sheet:9**

County: Colorado, Etc. **Control: 0026-04-048, Etc.**

Highway: US 90, Etc.

In Cuero, Texas (DeWitt Co.):
- US 183 (CSJ:0269-06-060)
- US 87 (CSJ:0143-09-071)

Where proposed work is in proximity to historic buildings or other structures (walls, retaining walls, fences, stone markers), planting beds, and vegetation/groundcover, follow the procedures listed below for demolition and construction.

To minimize potential damage to historic structures and materials, contractor must saw cut existing sidewalk 8 to 12 inches away from the façade.

- Contractor shall construct new sidewalk next to the saw cut edge with installation of expansion joint in between. If existing sidewalk is to be removed entirely, the remaining 8 to 12 inches next to the historic structure, material, fence, or retaining wall must be removed by hand. Expansion joint must be placed between historic structure, material, fence, or retaining wall and new sidewalk.

- Contractor must prevent damage to historic structure, materials, fences, retaining walls, including garden elements (planting beds, plantings) during the entire construction project, especially during removal of existing pavement, curb, or sidewalk. During the saw cut and hand removal process, contractor shall exercise utmost caution and shall physically protect historic structure foundation, materials, elevations, entryways with decorative flooring, fences, retaining walls, and landscape elements.

- Contractor must repair or replace in kind, at his own expense, any historic materials damaged while executing the work. Contractor shall locate replacement source for historic materials damaged during construction. TxDOT-Environmental Affairs Division shall be informed of proposed repairs to facilitate consultation with Texas Historical Commission prior to fabricating replacement material and/or execution of repair work.

Begin and complete all work on US 90 - Weimar (CSJ: 0026-04-048) before beginning work on SH 95 unless otherwise approved.

Roadway closures during the following key dates and/or special events are prohibited:
No work will be allowed on SH 95 during the month of October.
(Czhilispiel Festival).

Begin and complete all work on SH 95 - Flatonia (CSJ: 0323-03-034) before beginning work on US 183 unless otherwise approved.

Begin and complete all work on US 183 - Cuero (CSJ: 0269-06-060) before beginning work on US 87 unless otherwise approved.

Begin and complete all work on US 87 - Cuero (CSJ: 0143-09-071) before beginning work on US 77A unless otherwise approved.

Begin and complete all work on US 77A - Yoakum (CSJ: 0269-04-041, etc.) before beginning work on UA 77, UA 90 & US 77 - Hallettsville unless otherwise approved.

Contractor to notify TxDot Area Office prior to beginning sidewalk construction in Hallettsville. Area Office will notify City of Hallettsville to remove existing sidewalk and regrade existing ground at the Friench Simpson Memorial Library.

Contractor to notify TxDOT Area Engineer before removing or relocating any sprinkler irrigation systems or parts of a system in the areas of construction. If the contractor were to cut/damage a sprinkler line, the contractor will need to cap it to stop the flow of water and notify TxDOT Area Engineer of the damage.

Remove and replace right-of-way fences at particular work sites, where necessary, at contractor's entire expense except as shown on plans. Replace fences in a condition comparable to that at removal.

In the removal of the surface and base material on the existing pavement, exercise extreme care in providing a smooth and uniform edge adjacent to the existing travelway pavement which is to remain in place.

Existing manholes, water valves, water meters, etc., as shown in the plans, are to be removed, adjusted or relocated if necessary by others.

Do not work on the roadway before sunrise or after sunset unless otherwise approved.

Leave all traffic lanes open to traffic during non-working hours unless otherwise approved.

Furnish a certified copy of the legal gross weight of each vehicle hauling materials by weight and certified measurements for all trucks hauling material by volume.

The contractor's attention is directed to the fact that there are certain trees within the right-of-way that are designated for preservation. Protect these trees from abuse, marring or damage during construction operations. Continual parking and/or servicing of equipment under the branches of trees designated for preservation will not be permitted.

Project Number: **Sheet:9A**

County: Colorado, Etc. **Control: 0026-04-048, Etc.**

Highway: US 90, Etc.

Leave all intersecting roadways, side streets, and entrances open during construction unless otherwise approved. Should there be a request to restrict access for such reasons as parallel culvert replacement, reconstruction, etc., approval will be required 48 hours in advance and the contractor will be required to coordinate satisfactorily with any affected property owners.

Place the sodding/seeding after completion of sidewalk and prior to beginning next phase unless otherwise directed.

Unless otherwise approved, maintain a minimum safety clearance from the edge of the travelway for material stockpiled in proximity of traffic lanes based on the current average traffic count of the particular highway as follows:

0 - 1500 = 16 feet
Over 1500 = 30 feet

In the event the above requirements cannot be met, make arrangements to stockpile material off the right of way.

Provide temporary pipe drains or culverts and take such other measures as directed to provide for continued drainage from all abutting property, the right of way and the roadway during construction operations. Labor and materials involved in this work will not be paid for directly, but will be considered subsidiary to the various bid items of the contract.

The Department will provide the cylinder testing machine for this project. Deliver the test specimens to the engineer's curing facilities as directed.

Do not clean out concrete trucks within the right of way.

ITEM 6: CONTROL OF MATERIALS

To comply with the latest provisions of Build America, Buy America Act (BABA Act) of the Bipartisan Infrastructure Law, the contractor must 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.

The Buy America Material Classification Sheet is located at the below link. https://www.txdot.gov/business/resources/materials/buy-america-material-classification-sheet.html for clarification on material categorization.

ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES

The Department has determined that a USACE Nationwide or Individual Permit is not necessary for the project since all work shall be conducted outside the USACE jurisdictional areas. Any impacts to these jurisdictional areas by the Contractor without a USACE permit will be the responsibility of the Contractor. If the Contractor deems it necessary to impact the USACE jurisdictional areas, then it becomes the Contractor's entire responsibility to consult with the USACE pertaining to the need for a Nationwide or Individual Permit. TXDOT will then hold the Contractor responsible for following all conditions of the approved permit.

No significant traffic generator events identified.
OR
Roadway closures during the following key dates and/or special events are prohibited: And then list the dates and/or events road closures are prohibited.

If the contractor proposes work beyond the TxDOT obtained permit limitations, the contractor is responsible for additional costs, delays, and obtaining new or revised permits prior to construction.

ITEM 8: PROSECUTION AND PROGRESS

The 90 day delayed convenience start special provision is for allowing the contractor additional time for mobilizing crews and equipment to start this project.

Provide progress schedule as a Bar Chart.

ITEM 100: PREPARING RIGHT-OF-WAY

Dispose of trees from the right-of-way within 24 hours of removal.

Treat cuts on trees designated for preservation in accordance with Item 100, "Preparing Right of Way".

ITEM 132: EMBANKMENT

Furnish Type C embankment consisting of suitable earth material such as loam, clay or other such material that will form a stable embankment and has a plasticity index of at least 15 but not more than 40.

ITEM 162: SODDING FOR EROSION CONTROL

Use St. Augustine grass for this item.

Project Number: **Sheet:9B**

County: Colorado, Etc. **Control: 0026-04-048, Etc.**

Highway: US 90, Etc.

ITEM 334: HOT MIX COLD LAID ASPHALT CONCRETE PAVEMENT

Use HMCL asphalt concrete pavement for backfill to transition and / or level-up parking areas or roadway. This item will be considered subsidiary to the various bid items of the project.

ITEM 432: RIPRAP

Place 1/2 inch expansion joint material between the two concrete areas or structures where riprap is placed against other concrete such as concrete pavement and structures unless otherwise shown on the plans or as directed. This work will not be paid for directly but will be subsidiary to the pertinent items.
Unless otherwise shown on the plans or directed, riprap will be 5" deep and reinforced; reinforced toewalls 6" wide and 12" deep will be placed around the perimeter of each location.

ITEM 502: BARRICADES, SIGNS, AND TRAFFIC HANDLING

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. 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.

Use WZ(RS)-22 in conjunction with TCP(2-2) & TCP(2-4).

Use TCP(2-2b) for one-lane, two-way traffic control.

When using TCP(2-2b), a pilot car is required to lead traffic through the work space with or without channelizing devices on the center line unless otherwise approved.

When using TCP(2-2b), channelizing devices may be omitted during base, subgrade and seal coat operations unless otherwise directed. Flaggers will be required at public intersections when channelizing devices are omitted.

When using TCP(2-2b), arrow boards, displaying the caution mode, may be used to enhance the flagger stations. If used, place the arrow board in advance of the flagger station a distance of ½X, the sign spacing distance shown on BC(2). Use arrow boards as shown on BC(7).

When using TCP(2-2b), the temporary 24" stop line and the CW16-2P plaques may be omitted.

When using TCP(2-2b), an additional "Road Work Ahead" and "Be Prepared To Stop" signs will be required on each end of the lane closure unless otherwise approved.

Provide suitable warning lights mounted high enough to be visible from all directions on all construction equipment, including pilot vehicles, and operate warning lights when the equipment is within the right of way. Equip other equipment such as trucks, trailers, autos, etc., with emergency flashers and use emergency flashers while within the work area.

No additional payment will be made for relocating existing sign assemblies to temporary mounts.

Place plastic drums along the gutter line at curb ramp locations during non-working hours and barricades with "Sidewalk Closed" signs while ramps and/or sidewalks are under construction.

ITEM 506: TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

1. See SWP3 plan sheet for total disturbed acreage.

2. The disturbed area in this project, all project locations in the contract, and contractor project specific locations (PSLs), within one (1) mile of the project limits, for the contract will further establish the authorization requirements for storm water discharges.

3. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans.
4. Obtain any required authorization from the TCEQ for any contractor PSLs for construction activities on or off right-of-way (ROW).

5. When the total disturbed area for all projects in the contract and PSLs within one (1) mile of the project limits exceeds five (5) acres, provide a copy of the contractor NOI.

6. Provide a signed sketch detailing the location of any contractor's PSLs on ROW or within one (1) mile of the project.

ITEM 529: CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER

Taper the curb or curb and gutter from 5 3/4" to 0" in the last three feet when changing from a curb or curb and gutter section to an open section.

ITEM 530: INTERSECTIONS, DRIVEWAYS AND TURNOUTS

Notify property owners a minimum of 1 week in advance of beginning work on their driveway. Provide a list of each notification and contact prior to each closure. Only close driveways for reconstruction if duration and alternate access are approved. Install and maintain material across a work zone as temporary access. Temporary access must not have grade breaks that exceed 8%. This work is subsidiary.

Project Number: **Sheet:9C**

County: Colorado, Etc. **Control: 0026-04-048, Etc.**

Highway: US 90, Etc.

Grade breaks must not exceed 10%. Sidewalk crossing will be 1.5% and 6 ft. wide with width reduction in approved locations.

Removal / Reworking of existing ACP and / or flexible base is included in the excavation and embankment required for Item 530 and is considered subsidiary to this item, "DRIVEWAYS".

ITEM 531: SIDEWALKS

Reinforce concrete sidewalks with minimum No. 3 reinforcing bars spaced at a maximum of 12 inches transversely and a maximum of 24 inches longitudinally.

The furnishing and installation of the sand cushion in proposed sidewalks, sidewalk ramps, and driveways will not be paid for directly but will be subsidiary to this bid item.

The furnishing and installation of backfill in proposed sidewalks, sidewalk ramps, and driveways will not be paid for directly but will be subsidiary to this bid item.

Install an approved cast in place detectable warning surface on all new curb ramps.

Construct compliant curb ramps based upon referenced design criteria, Public ROW Accessibility Guidelines, Texas Accessibility Standards, and TxDOT Pedestrian Facilities Standards. Consider the locations of existing traffic and pedestrian control devices including loop detectors and pedestrian push buttons during curb ramp construction at signalized intersections, and construct ramps to allow such existing facilities to remain undisturbed and reused to the fullest extent possible while providing for full ADA compliance. All corners are unique and it may be necessary to use various combinations of ramp elements to achieve a compliant ramp configuration.

Review the curb ramp location and layout with TxDOT's inspector prior to demolition so that both parties agree that the curb ramp can be installed properly. Should it become apparent at any time during the ramp layout and construction process that a curb ramp cannot be installed as indicated on the Project Drawings, promptly notify the TxDOT inspector.

Any approval, inspection, or checking of the contractor's layout by TxDOT and the acceptance of all or any part of it shall not relieve the contractor of his responsibility to secure the proper dimensions, grades and elevations of the various parts of the work.

Construction of each curb ramp is to be completed within seven (7) working days after start of construction process. Construction process of curb ramps shall include: demolition of existing conditions, placement of concrete or brick, removal of lips, street surface patching in front of the curb or ramp, adjustment of counter slope within 24-inches of the bottom of the ramp or curb and gutter, street level landings, backfill, placement of topsoil, grading and sodding, and clean-up. All other related work such as adjustment of crosswalk, special heat-welds, asphalt overlays, and other work that does not affect accessibility shall be completed per a schedule pre-approved by TxDOT.

The curb ramp locations shown in the plans have taken into account the geometric features of the intersection, traffic signals, and the pavement markings. If anything changes during construction, the location of curb ramps must be adjusted to ensure they meet PROWAG requirements.

Contractor is to match existing concrete color and texturing at various locations which, as directed by the engineer, require matching.
Place 1/2 inch expansion joint material between the two concrete areas or structures where concrete is placed against other concrete such as concrete pavement and structures unless otherwise shown on the plans or as directed. This work will not be paid for directly but will be subsidiary to the pertinent items.

If roots are encountered, verify with the Engineer prior to accommodating or removing 2 in. diameter or larger roots. Roots may remain in the bedding or base. For improvements within 6 in. of a root, the concrete thickness may be reduced by 1 in. and the bedding increased by 1in. to minimize impacts to the roots. Adjust bedding and surface profile to provide a 1 in. bedding cushion around the roots. The surface profile may be adjusted to the extent allowed by ADA. This work is subsidiary.

Construct sidewalk on opposite side of roadway before removing existing sidewalk. Setup sidewalk detour in accordance with standard WZ(BTS-2)-13. Use BC (2)-21 for project limit signing.

ITEM 560: MAILBOX ASSEMBLIES

Furnish and place two OM-2Y Object Markers on mailbox supports, one in each direction. These will not be paid for directly but are subsidiary to this item.

Provide 12 inches of clearance from the pavement edge to the mailbox.

ITEM 610: ROADWAY ILLUMINATION ASSEMBLIES

Pedestrian illumination assemblies will be operated at 120 volts to match existing City of Weimer pedestrian illumination.

Project Number: **Sheet:9D**

County: Colorado, Etc. **Control: 0026-04-048, Etc.**

Highway: US 90, Etc.

Provide Acuity Brand Holophane GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 for proposed pedestrian illumination assemblies to match existing City of Weimar pedestrian illumination assemblies.

Stencil the circuit and pole number, as shown on plans, on each luminaire pole with 2" black lettering.

ITEM 618: CONDUIT

Provide as-built or certified as-installed plans, including GPS coordinates, for all conduit to establish the locations, vertical elevations, and horizontal alignments based on the department's survey datum. The plans shall also show the relationship to existing highway facilities and the right of way line. Submit to the engineer on an 11x17 inch scaled plan sheet.

Where PVC, duct cable, and HDPE conduit 1" and larger is allowed and installed as per TXDOT standards, provide a PVC elbow in place of the galvanized rigid metal elbow required by the Electrical Detail standards. Ensure the PVC elbow is of the same schedule rating as the conduit to which it is connected. Ensure only a flat, high tensile strength polyester fiber pull tape is used for pulling conductors through the PVC conduit system.

All conduit elbows and rigid metal extensions required when installing PVC conduit systems, are subsidiary to the various bid items.

Repair any pavement damaged by the boring operations. Repair method shall be as approved by the Engineer. This will be considered subsidiary to this item.

Conduit bore pits a minimum of five feet from the edge of the base or pavement. Close the bore pit holes during non-working hours. Consider payment for bored conduit as the width of the roadway plus five (5) feet on each side of roadway.

Unless shown otherwise on the plans, install the underground conduit a minimum of 24 in. deep. Place conduit under driveway or roadways a minimum of 24 in. below the pavement surface.

If using casing to place bored conduit, consider the casing incidental to the conduit. Prior to backfilling conduit trenches, place a detachable underground metalized mylar marking tape above the conduit and concrete encasement. Ensure the marking tape extends continuously into the ground box at each end of all conduit runs. Consider the supplying and installation of the marking tape incidental to the various bid items.

When backfilling bore pits, ensure that the conduit is not damaged during installation or due to settling backfill material. Compact select backfill in three equal lifts to the bottom of the conduit, or if using sand, place it in 2 in. above the conduit. Ensure backfill density is equal to that of the existing soil. Prevent material from entering the conduit.

ITEM 644: SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

Use Class B concrete for all small roadside sign assembly concrete footings.

The exact location of the foundations to be placed will be determined in the field by the Engineer.

Replace the signs with reference markers to the exact station from which they were removed.

Drill the holes in the signs carefully as to not damage the reflective sheeting of the signs.

Install the wedge anchor system in a concrete footing 42" in depth and 12" in diameter. Foundation should take approximately 2.7 cubic feet of concrete.

ITEM 668: PREFABRICATED PAVEMENT MARKINGS

Pavement marking material may be placed on roadways at any time during the year, subject to temperature and moisture limitations specified.

ITEM 6185: TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)

Shadow vehicle(s) with TMA are set up for stationary operations. The contractor will be responsible for determining if operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

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.

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0026-04-048 **DISTRICT** Yoakum **COUNTY** Colorado, De Witt, Fayette, Lavaca
HIGHWAY SH 95, UA 77, UA 90, US 183, US 77, US 87, US 90

			CONTROL SECTION JOB	**0026-04-048**		**0143-09-071**		**0269-02-067**		**0269-03-040**		**0269-04-041**		**0269-05-037**	
			PROJECT ID	**A00183447**		**A00183427**		**A00183432**		**A00183435**		**A00183431**		**A00183430**	
			COUNTY	**Colorado**		**De Witt**		**Lavaca**		**Lavaca**		**Lavaca**		**De Witt**	
			HIGHWAY	**US 90**		**US 87**		**US 77**		**UA 77**		**UA 77**		**UA 77**	
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	100-6004	PREPARING ROW(TREE)(12" TO 24" DIA)	EA												
	104-6017	REMOVING CONC (DRIVEWAYS)	SY	765.000				251.000		39.000		100.000		289.000	
	104-6021	REMOVING CONC (CURB)	LF	16.000		29.000		180.000						24.000	
	104-6022	REMOVING CONC (CURB AND GUTTER)	LF	64.000		20.000		123.000				131.000		362.000	
	104-6028	REMOVING CONC (MISC)	SY	29.000											
	110-6001	EXCAVATION (ROADWAY)	CY					74.000		18.000					
	132-6021	EMBANKMENT (VEHICLE)(ORD COMP)(TY C)	CY	8.000		260.000		2.000		19.000		380.000		238.000	
	162-6002	BLOCK SODDING	SY	1,186.000		2,442.000		329.000		275.000		1,088.000		1,179.000	
	168-6001	VEGETATIVE WATERING	MG	10.000		20.600		2.800		2.300		9.200		9.900	
	416-6088	DRILL SHAFT (RDWY ILL POLE) (24 IN)	LF	84.000											
	432-6002	RIPRAP (CONC)(5 IN)	CY			10.000									
	450-6052	RAIL (HANDRAIL)(TY F)	LF												
	500-6001	MOBILIZATION	LS	1.000											
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	18.000											
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	200.000		200.000		75.000		25.000		100.000		100.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	200.000		200.000		75.000		25.000		100.000		100.000	
	506-6040	BIODEG EROSN CONT LOGS (INSTL) (8")	LF	100.000		100.000		30.000		20.000		50.000		50.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	100.000		100.000		30.000		20.000		50.000		50.000	
	529-6002	CONC CURB (TY II)	LF												
	529-6008	CONC CURB & GUTTER (TY II)	LF					160.000				111.000			
	529-6015	CONC CURB (TY C1)	LF												
	530-6004	DRIVEWAYS (CONC)	SY	934.000		44.000		325.000		55.000		805.000		526.000	
	531-6002	CONC SIDEWALKS (5")	SY	1,225.000		1,904.000		489.000		297.000		1,555.000		1,770.000	
	531-6003	CONC SIDEWALKS (6")	SY												
	531-6018	CURB RAMPS (TY 1)	SY	24.000				21.000							
	531-6020	CURB RAMPS (TY 3)	SY			14.000									
	531-6024	CURB RAMPS (TY 7)	SY	77.000		50.000		9.000		10.000		9.000		20.000	
	531-6027	CURB RAMPS (TY 10)	SY					49.000				127.000		96.000	
	531-6032	CONC SIDEWALKS (SPECIAL) (TYPE A)	SY			7.000								3.000	
	560-6025	RELOCATE EXISTING MAILBOX	EA	1.000						1.000					
	618-6046	CONDT (PVC) (SCH 80) (2")	LF	1,145.000											
	618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	LF	903.000											
	620-6004	ELEC CONDR (NO.12) INSULATED	LF	3,516.000											
	620-6006	ELEC CONDR (NO.10) INSULATED	LF	3,438.000											
	624-6002	GROUND BOX TY A (122311)W/APRON	EA	13.000											
	628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)	EA	2.000											
	644-6056	IN SM RD SN SUP&AM TYTWT(1)UA(P)	EA			2.000									

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0026-04-048 **DISTRICT** Yoakum **COUNTY** Colorado, De Witt, Fayette, Lavaca
HIGHWAY SH 95, UA 77, UA 90, US 183, US 77, US 87, US 90

			CONTROL SECTION JOB	**0026-04-048**		**0143-09-071**		**0269-02-067**		**0269-03-040**		**0269-04-041**		**0269-05-037**	
			PROJECT ID	**A00183447**		**A00183427**		**A00183432**		**A00183435**		**A00183431**		**A00183430**	
			COUNTY	**Colorado**		**De Witt**		**Lavaca**		**Lavaca**		**Lavaca**		**De Witt**	
			HIGHWAY	**US 90**		**US 87**		**US 77**		**UA 77**		**UA 77**		**UA 77**	
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	644-6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA			2.000		2.000				1.000		7.000	
	644-6070	RELOCATE SM RD SN SUP&AM TY S80	EA			1.000		1.000				1.000			
	644-6071	RELOCATE SM RD SN SUP&AM TY TWT	EA			7.000						2.000		4.000	
	668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	82.000		145.000		85.000							
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA												
	677-6005	ELIM EXT PAV MRK & MRKS (12")	LF	114.000		126.000		150.000							
	6185-6002	TMA (STATIONARY)	DAY	5.000		5.000		10.000		2.000		5.000		5.000	
	6208-6001	PEDESTRIAN ILLUMINATION	EA	14.000											
	08	CONTRACTOR FORCE ACCOUNT EROSION CONTROL MAINTENANCE (NON-PARTICIPATING)	LS	1.000											
		CONTRACTOR FORCE ACCOUNT SAFETY CONTINGENCY (NON-PARTICIPATING)	LS	1.000											

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0026-04-048 **DISTRICT** Yoakum **COUNTY** Colorado, De Witt, Fayette, Lavaca
HIGHWAY SH 95, UA 77, UA 90, US 183, US 77, US 87, US 90

											TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB		**0269-06-060**		**0323-03-034**		**0370-01-040**		**0446-01-054**		
		PROJECT ID		**A00183425**		**A00183424**		**A00183433**		**A00183436**		
		COUNTY		**De Witt**		**Fayette**		**Lavaca**		**Lavaca**		
		HIGHWAY		**US 183**		**SH 95**		**US 77**		**UA 90**		
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	
	100-6004	PREPARING ROW(TREE)(12" TO 24" DIA)	EA			1.000				1.000		2.000	
	104-6017	REMOVING CONC (DRIVEWAYS)	SY	896.000		30.000				177.000		2,547.000	
	104-6021	REMOVING CONC (CURB)	LF	13.000						99.000		361.000	
	104-6022	REMOVING CONC (CURB AND GUTTER)	LF	501.000		105.000				460.000		1,766.000	
	104-6028	REMOVING CONC (MISC)	SY	36.000		14.000				7.000		86.000	
	110-6001	EXCAVATION (ROADWAY)	CY					31.000		44.000		167.000	
	132-6021	EMBANKMENT (VEHICLE)(ORD COMP)(TY C)	CY	2.000		18.000		1.000				928.000	
	162-6002	BLOCK SODDING	SY	2,735.000		891.000		25.000		594.000		10,744.000	
	168-6001	VEGETATIVE WATERING	MG	23.000		7.500		0.200		5.000		90.500	
	416-6088	DRILL SHAFT (RDWY ILL POLE) (24 IN)	LF									84.000	
	432-6002	RIPRAP (CONC)(5 IN)	CY			9.000						19.000	
	450-6052	RAIL (HANDRAIL)(TY F)	LF			34.000						34.000	
	500-6001	MOBILIZATION	LS									1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO									18.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	200.000		200.000		25.000		75.000		1,200.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	200.000		200.000		25.000		75.000		1,200.000	
	506-6040	BIODEG EROSN CONT LOGS (INSTL) (8")	LF	100.000		100.000		20.000		30.000		600.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	100.000		100.000		20.000		30.000		600.000	
	529-6002	CONC CURB (TY II)	LF							4.000		4.000	
	529-6008	CONC CURB & GUTTER (TY II)	LF							125.000		396.000	
	529-6015	CONC CURB (TY C1)	LF							53.000		53.000	
	530-6004	DRIVEWAYS (CONC)	SY	705.000		218.000				318.000		3,930.000	
	531-6002	CONC SIDEWALKS (5")	SY	2,835.000		1,476.000		117.000		1,329.000		12,997.000	
	531-6003	CONC SIDEWALKS (6")	SY							33.000		33.000	
	531-6018	CURB RAMPS (TY 1)	SY	65.000		8.000				17.000		135.000	
	531-6020	CURB RAMPS (TY 3)	SY									14.000	
	531-6024	CURB RAMPS (TY 7)	SY	337.000		140.000				15.000		667.000	
	531-6027	CURB RAMPS (TY 10)	SY			36.000				184.000		492.000	
	531-6032	CONC SIDEWALKS (SPECIAL) (TYPE A)	SY			2.000						12.000	
	560-6025	RELOCATE EXISTING MAILBOX	EA			1.000				1.000		4.000	
	618-6046	CONDT (PVC) (SCH 80) (2")	LF									1,145.000	
	618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	LF									903.000	
	620-6004	ELEC CONDR (NO.12) INSULATED	LF									3,516.000	
	620-6006	ELEC CONDR (NO.10) INSULATED	LF									3,438.000	
	624-6002	GROUND BOX TY A (122311)W/APRON	EA									13.000	
	628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)	EA									2.000	
	644-6056	IN SM RD SN SUP&AM TYTWT(1)UA(P)	EA									2.000	

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0026-04-048 **DISTRICT** Yoakum **COUNTY** Colorado, De Witt, Fayette, Lavaca
HIGHWAY SH 95, UA 77, UA 90, US 183, US 77, US 87, US 90

			CONTROL SECTION JOB	**0269-06-060**		**0323-03-034**		**0370-01-040**		**0446-01-054**		TOTAL EST.	TOTAL FINAL
			PROJECT ID	**A00183425**		**A00183424**		**A00183433**		**A00183436**			
			COUNTY	**De Witt**		**Fayette**		**Lavaca**		**Lavaca**			
			HIGHWAY	**US 183**		**SH 95**		**US 77**		**UA 90**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	644-6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	9.000		5.000				10.000		36.000	
	644-6070	RELOCATE SM RD SN SUP&AM TY S80	EA			2.000						5.000	
	644-6071	RELOCATE SM RD SN SUP&AM TY TWT	EA	3.000		10.000				5.000		31.000	
	668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	859.000						136.000		1,307.000	
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	4.000								4.000	
	677-6005	ELIM EXT PAV MRK & MRKS (12")	LF	1,290.000						160.000		1,840.000	
	6185-6002	TMA (STATIONARY)	DAY	15.000		5.000		2.000		10.000		64.000	
	6208-6001	PEDESTRIAN ILLUMINATION	EA									14.000	
	08	CONTRACTOR FORCE ACCOUNT EROSION CONTROL MAINTENANCE (NON-PARTICIPATING)	LS									1.000	
		CONTRACTOR FORCE ACCOUNT SAFETY CONTINGENCY (NON-PARTICIPATING)	LS									1.000	

US 90 WEIMAR SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	104 REMOVING CONC (DRIVEWAYS) SY	104 REMOVING CONC (CURB) LF	104 REMOVING CONC (CURB AND GUTTER) LF	104 REMOVING CONC (MISC) SY	132 EMBANKMENT (VEHICLE) (ORD COMP) (TY C) CY	162 BLOCK SODDING SY	166 * FERTILIZER TON	168 VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES) MG	334 ** HMCL ACP TY-C AC-0.6 TON
SHEET 1 OF 22	756+00 - 757+90			8			89	0.005	0.7	5
SHEET 2 OF 22	757+90 - 783+50						28	0.001	0.2	
SHEET 3 OF 22	783+50 - 785+90						27	0.001	0.2	
SHEET 4 OF 22	785+90 - 788+30	17					22	0.001	0.2	
SHEET 5 OF 22	788+30 - 790+70	230					17	0.001	0.1	
SHEET 6 OF 22	790+70 - 793+10	24								
SHEET 7 OF 22	793+10 - 795+50	190								6
SHEET 8 OF 22	795+50 - 797+90									
SHEET 9 OF 22	797+90 - 800+30									
SHEET 10 OF 22	800+30 - 802+70									
SHEET 11 OF 22	802+70 - 805+10	90		11	11		118	0.006	1.0	17
SHEET 12 OF 22	805+10 - 807+50	77		7			84	0.004	0.7	9
SHEET 13 OF 22	807+50 - 809+90	105	16		18	1	196	0.010	1.7	2
SHEET 14 OF 22	809+90 - 812+30	32		6			109	0.006	0.9	3
SHEET 15 OF 22	812+30 - 814+70									
SHEET 16 OF 22	814+70 - 817+10						10	0.000	0.1	
SHEET 17 OF 22	817+10 - 819+50									
SHEET 18 OF 22	819+50 - 821+90									
SHEET 19 OF 22	821+90 - 824+30			12		2	88	0.005	0.7	
SHEET 20 OF 22	824+30 - 826+70			15		5	99	0.005	0.8	
SHEET 21 OF 22	826+70 - 829+10						211	0.011	1.8	
SHEET 22 OF 22	829+10 - 830+50			5			89	0.005	0.7	
	CSJ: 0026-04-048 TOTALS	765	16	64	29	8	1186	0.061	10.0	41

US 90 WEIMAR SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	530 DRIVEWAYS (CONC) SY	531 CONC SIDEWALKS (5") SY	531 CURB RAMPS (TY 1) SY	531 CURB RAMPS (TY 7) SY	6185 TMA (STATIONARY) DAY
SHEET 1 OF 22	756+00 - 757+90	36	49		13	
SHEET 2 OF 22	757+90 - 783+50	1	38	16		
SHEET 3 OF 22	783+50 - 785+90		23			
SHEET 4 OF 22	785+90 - 788+30	17	16			
SHEET 5 OF 22	788+30 - 790+70	237	26			
SHEET 6 OF 22	790+70 - 793+10	24	2			
SHEET 7 OF 22	793+10 - 795+50	190	33			
SHEET 8 OF 22	795+50 - 797+90		6			
SHEET 9 OF 22	797+90 - 800+30					
SHEET 10 OF 22	800+30 - 802+70					
SHEET 11 OF 22	802+70 - 805+10	90	148		26	
SHEET 12 OF 22	805+10 - 807+50	83	149		11	
SHEET 13 OF 22	807+50 - 809+90	102	197	8		
SHEET 14 OF 22	809+90 - 812+30	54	97		9	
SHEET 15 OF 22	812+30 - 814+70					
SHEET 16 OF 22	814+70 - 817+10	100	14			
SHEET 17 OF 22	817+10 - 819+50		8			
SHEET 18 OF 22	819+50 - 821+90					
SHEET 19 OF 22	821+90 - 824+30		103			
SHEET 20 OF 22	824+30 - 826+70		131		18	
SHEET 21 OF 22	826+70 - 829+10		127			
SHEET 22 OF 22	829+10 - 831+50		58			
	CSJ: 0026-04-048 TOTALS	934	1225	24	77	5

US 90 WEIMAR SUMMARY OF PAVEMENT MARKING ITEMS

LAYOUT SHEET	STATION RANGE	668 PREFAB PAV MRK TY C (W) (24") (SLD) LF	677 ELIM EXT PAV MRK & MRKS (12") LF
SHEET 1 OF 22	756+00 - 757+90		
SHEET 2 OF 22	757+90 - 783+50		
SHEET 3 OF 22	783+50 - 785+90		
SHEET 4 OF 22	785+90 - 788+30		
SHEET 5 OF 22	788+30 - 790+70		
SHEET 6 OF 22	790+70 - 793+10		
SHEET 7 OF 22	793+10 - 795+50		
SHEET 8 OF 22	795+50 - 797+90		
SHEET 9 OF 22	797+90 - 800+30		
SHEET 10 OF 22	800+30 - 802+70	82	114
SHEET 11 OF 22	802+70 - 805+10		
SHEET 12 OF 22	805+10 - 807+50		
SHEET 13 OF 22	807+50 - 809+90		
SHEET 14 OF 22	809+90 - 812+30		
SHEET 15 OF 22	812+30 - 814+70		
SHEET 16 OF 22	814+70 - 817+10		
SHEET 17 OF 22	817+10 - 819+50		
SHEET 18 OF 22	819+50 - 821+90		
SHEET 19 OF 22	821+90 - 824+30		
SHEET 20 OF 22	824+30 - 826+70		
SHEET 21 OF 22	826+70 - 829+10		
SHEET 22 OF 22	829+10 - 831+50		
	CSJ: 0026-04-048 TOTALS	82	114

* FOR CONTRACTOR'S INFORMATION ONLY.
FERTILIZER QUANTITY BASED ON 500 LBS/ACRE.

** FOR CONTRACTOR'S INFORMATION ONLY.

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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 1 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		11

DATE: 6/4/2024 6:31:41 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03_CADD\01_Shts\00-GENYKM14_WEIMAR_UA90_RDWY_SUM_01.dgn

DW: | DW: | CK: | CK:

US 90 WEIMAR SUMMARY OF ILLUMINATION ITEMS

LAYOUT SHEET	STATION RANGE	416	618	618	620	620	624	628	6208
		DRILL SHAFT (RDWY ILL POLE) (24 IN)	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)	ELEC CONDR (NO.12) INSULATED	ELEC CONDR (NO.10) INSULATED	GROUND BOX TY A (122311)W /APRON	ELC SRV TY D 120/240 060(NS)AL(E)SP (U)	* PEDESTRIAN ILLUMINATION
		LF	LF	LF	LF	LF	EA	EA	EA
SHEET 1 OF 22	756+00 - 757+90								
SHEET 2 OF 22	757+90 - 783+50								
SHEET 3 OF 22	783+50 - 785+90								
SHEET 4 OF 22	785+90 - 788+30	6	94	158	42	834	2	1	1
SHEET 5 OF 22	788+30 - 790+70	6	190	80		840			1
SHEET 6 OF 22	790+70 - 793+10	6	3	160	39	510	1		1
SHEET 7 OF 22	793+10 - 795+50	12	193	44	801		1		2
SHEET 8 OF 22	795+50 - 797+90	12	6	150	558		2		2
SHEET 9 OF 22	797+90 - 800+30								
SHEET 10 OF 22	800+30 - 802+70								
SHEET 11 OF 22	802+70 - 805+10	12	250	148	120	1254	3	1	2
SHEET 12 OF 22	805+10 - 807+50	6	85	85	600		2		1
SHEET 13 OF 22	807+50 - 809+90	12	196	78	912		1		2
SHEET 14 OF 22	809+90 - 812+30	12	128		444		1		2
SHEET 15 OF 22	812+30 - 814+70								
SHEET 16 OF 22	814+70 - 817+10								
SHEET 17 OF 22	817+10 - 819+50								
SHEET 18 OF 22	819+50 - 821+90								
SHEET 19 OF 22	821+90 - 824+30								
SHEET 20 OF 22	824+30 - 826+70								
SHEET 21 OF 22	826+70 - 829+10								
SHEET 22 OF 22	829+10 - 831+50								
	CSJ: 0026-04-048 TOTALS	84	1145	903	3516	3438	13	2	14

* CONTRACTOR TO PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12 D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

US 90 WEIMAR SUMMARY OF MAILBOXES

LAYOUT SHEET	STATION RANGE	560
		RELOCATE EXISTING MAILBOX
		EA
SHEET 1 OF 22	756+00 - 757+90	
SHEET 2 OF 22	757+90 - 783+50	
SHEET 3 OF 22	783+50 - 785+90	
SHEET 4 OF 22	785+90 - 788+30	
SHEET 5 OF 22	788+30 - 790+70	
SHEET 6 OF 22	790+70 - 793+10	
SHEET 7 OF 22	793+10 - 795+50	
SHEET 8 OF 22	795+50 - 797+90	
SHEET 9 OF 22	797+90 - 800+30	
SHEET 10 OF 22	800+30 - 802+70	
SHEET 11 OF 22	802+70 - 805+10	1
SHEET 12 OF 22	805+10 - 807+50	
SHEET 13 OF 22	807+50 - 809+90	
SHEET 14 OF 22	809+90 - 812+30	
SHEET 15 OF 22	812+30 - 814+70	
SHEET 16 OF 22	814+70 - 817+10	
SHEET 17 OF 22	817+10 - 819+50	
SHEET 18 OF 22	819+50 - 821+90	
SHEET 19 OF 22	821+90 - 824+30	
SHEET 20 OF 22	824+30 - 826+70	
SHEET 21 OF 22	826+70 - 829+10	
SHEET 22 OF 22	829+10 - 831+50	
	CSJ: 0026-04-048 TOTALS	1

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS US 90 WEIMAR CSJ: 0026-04-048

SHEET 2 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		12

DATE: 6/4/2024 6:31:42 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01_Shts\00-GENYKM14_WEIMAR_UA90_RDWY_SUM_01.dgn

US 87 CUERO SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	104	104	132	162	166	168
		REMOVING CONC (CURB)	REMOVING CONC (CURB AND GUTTER)	EMBANKMENT (VEHICLE) (ORD COMP) (TY C)	BLOCK SODDING	* FERTILIZER	VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES)
		LF	LF	CY	SY	TON	MG
SHEET 1 OF 19	STA 9+00.00 TO 9+60.00				12	0.001	0.1
SHEET 2 OF 19	STA 9+60.00 TO 12+00.00			1	106	0.054	0.9
SHEET 3 OF 19	STA 12+00.00 TO 14+40.00			1	106	0.054	0.9
SHEET 4 OF 19	STA 14+40.00 TO 16+80.00				106	0.054	0.9
SHEET 5 OF 19	STA 16+80.00 TO 19+20.00			7	28	0.001	0.2
SHEET 6 OF 19	STA 19+20.00 TO 21+60.00			6	80	0.004	0.7
SHEET 7 OF 19	STA 21+60.00 TO 24+00.00			10	104	0.005	0.9
SHEET 8 OF 19	STA 24+00.00 TO 26+40.00			4	104	0.005	0.9
SHEET 9 OF 19	STA 26+40.00 TO 28+80.00			4	210	0.011	1.8
SHEET 10 OF 19	STA 28+80.00 TO 31+20.00			4	164	0.008	1.4
SHEET 11 OF 19	STA 31+20.00 TO 33+60.00			4	157	0.008	1.3
SHEET 12 OF 19	STA 33+60.00 TO 36+00.00			3	166	0.009	1.4
SHEET 13 OF 19	STA 36+00.00 TO 38+40.00	29	20	8	85	0.004	0.7
SHEET 14 OF 19	STA 38+40.00 TO 40+80.00			42	177	0.009	1.5
SHEET 15 OF 19	STA 40+80.00 TO 43+20.00			38	182	0.009	1.5
SHEET 16 OF 19	STA 43+20.00 TO 45+60.00			16	150	0.008	1.3
SHEET 17 OF 19	STA 45+60.00 TO 48+00.00			30	185	0.010	1.6
SHEET 18 OF 19	STA 48+00.00 TO 50+40.00			60	198	0.010	1.7
SHEET 19 OF 19	STA 50+40.00 TO 52+00.00			22	124	0.006	1.0
	CSJ: 0143-09-071 TOTALS	29	20	260	2442	0.271	20.6

US 87 CUERO SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	334	432	530	531	531	531	531	6185
		** HMCL ACP TY-C AC-0.6	RIPRAP (CONC)(5 IN)	DRIVEWAYS (CONC)	CONC SIDEWALKS (5")	CURB RAMPS (TY 3)	CURB RAMPS (TY 7)	CONC SIDEWALKS (SPECIAL) (TYPE A)	TMA (STATIONARY)
		TON	CY	SY	SY	SY	SY	SY	DAY
SHEET 1 OF 19	STA 9+00.00 TO 9+60.00				14				
SHEET 2 OF 19	STA 9+60.00 TO 12+00.00				131			3	
SHEET 3 OF 19	STA 12+00.00 TO 14+40.00				134				
SHEET 4 OF 19	STA 14+40.00 TO 16+80.00				124	14			
SHEET 5 OF 19	STA 16+80.00 TO 19+20.00		10		82				
SHEET 6 OF 19	STA 19+20.00 TO 21+60.00				101				
SHEET 7 OF 19	STA 21+60.00 TO 24+00.00				132				
SHEET 8 OF 19	STA 24+00.00 TO 26+40.00				65		24		
SHEET 9 OF 19	STA 26+40.00 TO 28+80.00				129				
SHEET 10 OF 19	STA 28+80.00 TO 31+20.00				104				
SHEET 11 OF 19	STA 31+20.00 TO 33+60.00				99				
SHEET 12 OF 19	STA 33+60.00 TO 36+00.00				99		8		
SHEET 13 OF 19	STA 36+00.00 TO 38+40.00				67		9	4	
SHEET 14 OF 19	STA 38+40.00 TO 40+80.00	3		44	117				
SHEET 15 OF 19	STA 40+80.00 TO 43+20.00				102				
SHEET 16 OF 19	STA 43+20.00 TO 45+60.00				90				
SHEET 17 OF 19	STA 45+60.00 TO 48+00.00				117				
SHEET 18 OF 19	STA 48+00.00 TO 50+40.00				125				
SHEET 19 OF 19	STA 50+40.00 TO 52+00.00				72		9		
	CSJ: 0143-09-071 TOTALS	3	10	44	1904	14	50	7	5

* FOR CONTRACTOR'S INFORMATION ONLY.
FERTILIZER QUANTITY BASED ON 500 LBS/ACRE.

** FOR CONTRACTOR'S INFORMATION ONLY.

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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS US 87 CUERO CSJ: 0143-09-071

SHEET 1 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		13

DATE: 6/4/2024 6:31:43 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03_CADD\01_Shts\00-GENYKM14_CUERO_US87_RDWY_SUM_01.dgn

US 87 CUERO SUMMARY OF SIGNAGE ITEMS

LAYOUT SHEET	STATION RANGE	644	644	644	644
		IN SM RD SN SUP&AM TYTWT(1)UA(P)	RELOCATE SM RD SN SUP&AM TY 10BWG	RELOCATE SM RD SN SUP&AM TY S80	RELOCATE SM RD SN SUP&AM TY TWT
		EA	EA	EA	EA
SHEET 1 OF 19	STA 9+00.00 TO 9+60.00				1
SHEET 2 OF 19	STA 9+60.00 TO 12+00.00				
SHEET 3 OF 19	STA 12+00.00 TO 14+40.00				
SHEET 4 OF 19	STA 14+40.00 TO 16+80.00	2			1
SHEET 5 OF 19	STA 16+80.00 TO 19+20.00				
SHEET 6 OF 19	STA 19+20.00 TO 21+60.00				
SHEET 7 OF 19	STA 21+60.00 TO 24+00.00				1
SHEET 8 OF 19	STA 24+00.00 TO 26+40.00				
SHEET 9 OF 19	STA 26+40.00 TO 28+80.00				
SHEET 10 OF 19	STA 28+80.00 TO 31+20.00				
SHEET 11 OF 19	STA 31+20.00 TO 33+60.00		1		1
SHEET 12 OF 19	STA 33+60.00 TO 36+00.00				
SHEET 13 OF 19	STA 36+00.00 TO 38+40.00		1		
SHEET 14 OF 19	STA 38+40.00 TO 40+80.00				
SHEET 15 OF 19	STA 40+80.00 TO 43+20.00				
SHEET 16 OF 19	STA 43+20.00 TO 45+60.00				1
SHEET 17 OF 19	STA 45+60.00 TO 48+00.00				1
SHEET 18 OF 19	STA 48+00.00 TO 50+40.00			1	
SHEET 19 OF 19	STA 50+40.00 TO 52+00.00				1
	CSJ: 0143-09-071 TOTALS	2	2	1	7

US 87 CUERO SUMMARY OF PAVEMENT MARKING ITEMS

LAYOUT SHEET	STATION RANGE	668	677
		PREFAB PAV MRK TY C (W) (24") (SLD)	ELIM EXT PAV MRK & MRKS (12")
		LF	LF
SHEET 1 OF 19	STA 9+00.00 TO 9+60.00		
SHEET 2 OF 19	STA 9+60.00 TO 12+00.00		
SHEET 3 OF 19	STA 12+00.00 TO 14+40.00		
SHEET 4 OF 19	STA 14+40.00 TO 16+80.00	145	126
SHEET 5 OF 19	STA 16+80.00 TO 19+20.00		
SHEET 6 OF 19	STA 19+20.00 TO 21+60.00		
SHEET 7 OF 19	STA 21+60.00 TO 24+00.00		
SHEET 8 OF 19	STA 24+00.00 TO 26+40.00		
SHEET 9 OF 19	STA 26+40.00 TO 28+80.00		
SHEET 10 OF 19	STA 28+80.00 TO 31+20.00		
SHEET 11 OF 19	STA 31+20.00 TO 33+60.00		
SHEET 12 OF 19	STA 33+60.00 TO 36+00.00		
SHEET 13 OF 19	STA 36+00.00 TO 38+40.00		
SHEET 14 OF 19	STA 38+40.00 TO 40+80.00		
SHEET 15 OF 19	STA 40+80.00 TO 43+20.00		
SHEET 16 OF 19	STA 43+20.00 TO 45+60.00		
SHEET 17 OF 19	STA 45+60.00 TO 48+00.00		
SHEET 18 OF 19	STA 48+00.00 TO 50+40.00		
SHEET 19 OF 19	STA 50+40.00 TO 52+00.00		
	CSJ: 0143-09-071 TOTALS	145	126

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS US 87 CUERO CSJ: 0143-09-071

SHEET 2 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		14

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US 183 CUERO SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	104 REMOVING CONC (DRIVEWAYS) SY	104 REMOVING CONC (CURB) LF	104 REMOVING CONC (CURB AND GUTTER) LF	104 REMOVING CONC (MISC) SY	132 EMBANKMENT (VEHICLE)(ORD COMP)(TY C) CY	162 BLOCK SODDING SY	166 * FERTILIZER TON	168 VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES) MG	334 ** HMCL ACP TY-C AC-0.6 TON	530 DRIVEWAYS (CONC) SY
SHEET 1 OF 25	1689+00.00 - 1690+80.00	82		27			5	0.000	0.0		57
SHEET 2 OF 25	1690+80.00 - 1693+20.00	50		28	4		39	0.002	0.3		57
SHEET 3 OF 25	1693+20.00 - 1695+60.00	130		13	4					12	107
SHEET 4 OF 25	1695+60.00 - 1698+00.00			24						9	
SHEET 5 OF 25	1698+00.00 - 1700+40.00						11	0.001	0.1	14	
SHEET 6 OF 25	1700+40.00 - 1702+80.00			16							
SHEET 7 OF 25	1702+80.00 - 1705+20.00			7		1	49	0.003	0.4	5	
SHEET 8 OF 25	1705+20.00 - 1707+60.00	69		15		1	99	0.005	0.8	7	62
SHEET 9 OF 25	1707+60.00 - 1710+00.00			41			179	0.009	1.5	37	
SHEET 10 OF 25	1710+00.00 - 1712+40.00		13	32			99	0.005	0.8	31	
SHEET 11 OF 25	1712+40.00 - 1714+80.00	22		17			207	0.011	1.7	22	22
SHEET 12 OF 25	1714+80.00 - 1717+20.00	353		24			200	0.010	1.7	4	200
SHEET 13 OF 25	1717+20.00 - 1719+60.00	6		39			106	0.005	0.9	20	6
SHEET 14 OF 25	1719+60.00 - 1722+00.00			39			78	0.004	0.7	14	
SHEET 15 OF 25	1722+00.00 - 1724+40.00			14			228	0.012	1.9		
SHEET 16 OF 25	1724+40.00 - 1726+80.00			11			110	0.006	0.9	4	
SHEET 17 OF 25	1726+80.00 - 1729+20.00						39	0.002	0.3	6	
SHEET 18 OF 25	1729+20.00 - 1731+60.00			13			253	0.013	2.1		
SHEET 19 OF 25	1731+60.00 - 1734+00.00	125		20			234	0.012	2.0		125
SHEET 20 OF 25	1734+00.00 - 1736+40.00										
SHEET 21 OF 25	1736+40.00 - 1738+80.00			47	28						
SHEET 22 OF 25	1738+80.00 - 1741+20.00	59					234	0.012	2.0		69
SHEET 23 OF 25	1741+20.00 - 1743+60.00						97	0.005	0.8		
SHEET 24 OF 25	1743+60.00 - 1746+00.00			70			291	0.015	2.4		
SHEET 25 OF 25	1746+00.00 - 1748+00.00			4			177	0.009	1.5		
	CSJ: 0269-06-060 TOTALS	896	13	501	36	2	2735	0.141	23.0	185	705

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS
US 183 CUERO
CSJ: 0269-06-060

CONT	SECT	JOB	HIGHWAY
0026	04	048, etc.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		15

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US 183 CUERO SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	531	531	531	6185
		CONC SIDEWALKS (5")	CURB RAMPS (TY 1)	CURB RAMPS (TY 7)	TMA (STATIONARY)
		SY	SY	SY	DAY
SHEET 1 OF 25	1689+00.00 - 1690+80.00	103		19	
SHEET 2 OF 25	1690+80.00 - 1693+20.00	191		24	
SHEET 3 OF 25	1693+20.00 - 1695+60.00	106		17	
SHEET 4 OF 25	1695+60.00 - 1698+00.00	183		28	
SHEET 5 OF 25	1698+00.00 - 1700+40.00	134			
SHEET 6 OF 25	1700+40.00 - 1702+80.00	138		28	
SHEET 7 OF 25	1702+80.00 - 1705+20.00	190		9	
SHEET 8 OF 25	1705+20.00 - 1707+60.00	189		11	
SHEET 9 OF 25	1707+60.00 - 1710+00.00	169		45	
SHEET 10 OF 25	1710+00.00 - 1712+40.00	174		48	
SHEET 11 OF 25	1712+40.00 - 1714+80.00	237		9	
SHEET 12 OF 25	1714+80.00 - 1717+20.00	59		35	
SHEET 13 OF 25	1717+20.00 - 1719+60.00	156		9	
SHEET 14 OF 25	1719+60.00 - 1722+00.00	182	16		
SHEET 15 OF 25	1722+00.00 - 1724+40.00	113		11	
SHEET 16 OF 25	1724+40.00 - 1726+80.00	116	8		
SHEET 17 OF 25	1726+80.00 - 1729+20.00	145			
SHEET 18 OF 25	1729+20.00 - 1731+60.00	79			
SHEET 19 OF 25	1731+60.00 - 1734+00.00	35			
SHEET 20 OF 25	1734+00.00 - 1736+40.00				
SHEET 21 OF 25	1736+40.00 - 1738+80.00	12	27		
SHEET 22 OF 25	1738+80.00 - 1741+20.00	41			
SHEET 23 OF 25	1741+20.00 - 1743+60.00				
SHEET 24 OF 25	1743+60.00 - 1746+00.00	60	14	44	
SHEET 25 OF 25	1746+00.00 - 1748+00.00	23			
	CSJ: 0269-06-060 TOTALS	2835	65	337	15

US 183 CUERO SUMMARY OF PAVEMENT MARKING ITEMS

LAYOUT SHEET	STATION RANGE	668	668	677
		PREFAB PAV MRK TY C (W) (24") (SLD)	PREFAB PAV MRK TY C (W) (ARROW)	ELIM EXT PAV MRK & MRKS (12")
		LF	EA	LF
SHEET 1 OF 25	1689+00.00 - 1690+80.00			
SHEET 2 OF 25	1690+80.00 - 1693+20.00			
SHEET 3 OF 25	1693+20.00 - 1695+60.00			
SHEET 4 OF 25	1695+60.00 - 1698+00.00			
SHEET 5 OF 25	1698+00.00 - 1700+40.00			
SHEET 6 OF 25	1700+40.00 - 1702+80.00			
SHEET 7 OF 25	1702+80.00 - 1705+20.00			
SHEET 8 OF 25	1705+20.00 - 1707+60.00			
SHEET 9 OF 25	1707+60.00 - 1710+00.00			
SHEET 10 OF 25	1710+00.00 - 1712+40.00			
SHEET 11 OF 25	1712+40.00 - 1714+80.00			
SHEET 12 OF 25	1714+80.00 - 1717+20.00			
SHEET 13 OF 25	1717+20.00 - 1719+60.00			
SHEET 14 OF 25	1719+60.00 - 1722+00.00			
SHEET 15 OF 25	1722+00.00 - 1724+40.00			
SHEET 16 OF 25	1724+40.00 - 1726+80.00			
SHEET 17 OF 25	1726+80.00 - 1729+20.00	210		220
SHEET 18 OF 25	1729+20.00 - 1731+60.00	268		490
SHEET 19 OF 25	1731+60.00 - 1734+00.00		4	
SHEET 20 OF 25	1734+00.00 - 1736+40.00			
SHEET 21 OF 25	1736+40.00 - 1738+80.00			
SHEET 22 OF 25	1738+80.00 - 1741+20.00			
SHEET 23 OF 25	1741+20.00 - 1743+60.00			
SHEET 24 OF 25	1743+60.00 - 1746+00.00			
SHEET 25 OF 25	1746+00.00 - 1748+00.00	381		580
	CSJ: 0269-06-060 TOTALS	859	4	1290

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YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS
US 183 CUERO
CSJ: 0269-06-060

CONT	SECT	JOB	HIGHWAY
0026	04	048, etc.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		16

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US 183 CUERO SUMMARY OF SIGNAGE ITEMS

LAYOUT SHEET	STATION RANGE	644	644
		RELOCATE SM RD SN SUP&AM TY 10BWG	RELOCATE SM RD SN SUP&AM TY TWT
		EA	EA
SHEET 1 OF 25	1689+00.00 - 1690+80.00	1	
SHEET 2 OF 25	1690+80.00 - 1693+20.00		
SHEET 3 OF 25	1693+20.00 - 1695+60.00		
SHEET 4 OF 25	1695+60.00 - 1698+00.00	1	
SHEET 5 OF 25	1698+00.00 - 1700+40.00		
SHEET 6 OF 25	1700+40.00 - 1702+80.00		
SHEET 7 OF 25	1702+80.00 - 1705+20.00		
SHEET 8 OF 25	1705+20.00 - 1707+60.00		
SHEET 9 OF 25	1707+60.00 - 1710+00.00	2	
SHEET 10 OF 25	1710+00.00 - 1712+40.00		2
SHEET 11 OF 25	1712+40.00 - 1714+80.00		
SHEET 12 OF 25	1714+80.00 - 1717+20.00	1	1
SHEET 13 OF 25	1717+20.00 - 1719+60.00		
SHEET 14 OF 25	1719+60.00 - 1722+00.00		
SHEET 15 OF 25	1722+00.00 - 1724+40.00		
SHEET 16 OF 25	1724+40.00 - 1726+80.00	1	
SHEET 17 OF 25	1726+80.00 - 1729+20.00		
SHEET 18 OF 25	1729+20.00 - 1731+60.00	1	
SHEET 19 OF 25	1731+60.00 - 1734+00.00		
SHEET 20 OF 25	1734+00.00 - 1736+40.00		
SHEET 21 OF 25	1736+40.00 - 1738+80.00	1	
SHEET 22 OF 25	1738+80.00 - 1741+20.00		
SHEET 23 OF 25	1741+20.00 - 1743+60.00		
SHEET 24 OF 25	1743+60.00 - 1746+00.00	1	
SHEET 25 OF 25	1746+00.00 - 1748+00.00		
	CSJ: 0269-06-060 TOTALS	9	3

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF
SIDEWALKS
US 183 CUERO
CSJ: 0269-06-060

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		17

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SH 95 FLATONIA SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	100	104	104	104	132	162	166	168	334	432	450	530	531
		PREPARING ROW(TREE) (12" TO 24" DIA)	REMOVING CONC (DRIVEWAYS)	REMOVING CONC (CURB AND GUTTER)	REMOVING CONC (MISC)	EMBANKMENT (VEHICLE) (ORD COMP) (TY C)	BLOCK SODDING	* FERTILIZER	VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES)	** HMCL ACP TY-C AC-0.6	RIPRAP (CONC) (5 IN)	RAIL (HANDRAIL) (TY F)	DRIVEWAYS (CONC)	CONC SIDEWALKS (5")
		EA	SY	LF	SY	CY	SY	TON	MG	TON	CY	LF	SY	SY
SHEET 1 OF 13	203+00.00 - 204+90.00					1	9	0.000	0.1					23
SHEET 2 OF 13	204+90.00 - 207+30.00					3	37	0.002	0.3	1			7	156
SHEET 3 OF 13	207+30.00 - 209+70.00	1		16		4	48	0.002	0.4				51	101
SHEET 4 OF 13	209+70.00 - 212+10.00					4	91	0.005	0.8					134
SHEET 5 OF 13	212+10.00 - 214+50.00					3	88	0.005	0.7		9	34		119
SHEET 6 OF 13	214+50.00 - 216+90.00		5			2	88	0.005	0.7				16	98
SHEET 7 OF 13	216+90.00 - 219+30.00			17			37	0.002	0.3					65
SHEET 8 OF 13	219+30.00 - 221+70.00			3			95	0.005	0.8				54	200
SHEET 9 OF 13	221+70.00 - 224+10.00			7		1	95	0.005	0.8				24	199
SHEET 10 OF 13	224+10.00 - 226+50.00			18			138	0.007	1.2					192
SHEET 11 OF 13	226+50.00 - 228+90.00		15	30	14		102	0.005	0.9				37	114
SHEET 12 OF 13	228+90.00 - 231+30.00		10	14			63	0.003	0.5				33	75
SHEET 13 OF 13	231+30.00 - 232+50.00													
	CSJ: 0323-03-034 TOTALS	1	30	105	14	18	891	0.046	7.5	1	9	34	222	1476

SH 95 FLATONIA SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	531	531	531	531	6185
		CURB RAMPS (TY 1)	CURB RAMPS (TY 7)	CURB RAMPS (TY 10)	CONC SIDEWALKS (SPECIAL) (TYPE A)	TMA (STATIONARY)
		SY	SY	SY	SY	DAY
SHEET 1 OF 13	203+00.00 - 204+90.00			15		
SHEET 2 OF 13	204+90.00 - 207+30.00					
SHEET 3 OF 13	207+30.00 - 209+70.00		19			
SHEET 4 OF 13	209+70.00 - 212+10.00					
SHEET 5 OF 13	212+10.00 - 214+50.00					
SHEET 6 OF 13	214+50.00 - 216+90.00					
SHEET 7 OF 13	216+90.00 - 219+30.00		16	11		
SHEET 8 OF 13	219+30.00 - 221+70.00		17			
SHEET 9 OF 13	221+70.00 - 224+10.00		17			
SHEET 10 OF 13	224+10.00 - 226+50.00		24	10		
SHEET 11 OF 13	226+50.00 - 228+90.00		27			
SHEET 12 OF 13	228+90.00 - 231+30.00	8	20		2	
SHEET 13 OF 13	231+30.00 - 232+50.00					
	CSJ: 0323-03-034 TOTALS	8	140	36	2	5

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF
SIDEWALKS
SH 95 FLATONIA
CSJ: 0323-03-034

SHEET 1 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		18

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SH 95 FLATONIA SUMMARY OF SIGNAGE ITEMS

LAYOUT SHEET	STATION RANGE	644	644	644
		RELOCATE SM RD SN SUP&AM TY 10BWG	RELOCATE SM RD SN SUP&AM TY S80	RELOCATE SM RD SN SUP&AM TY TWT
		EA	EA	EA
SHEET 1 OF 13	203+00.00 - 204+90.00		1	
SHEET 2 OF 13	204+90.00 - 207+30.00			
SHEET 3 OF 13	207+30.00 - 209+70.00			1
SHEET 4 OF 13	209+70.00 - 212+10.00	1		1
SHEET 5 OF 13	212+10.00 - 214+50.00			
SHEET 6 OF 13	214+50.00 - 216+90.00	1		
SHEET 7 OF 13	216+90.00 - 219+30.00			1
SHEET 8 OF 13	219+30.00 - 221+70.00			2
SHEET 9 OF 13	221+70.00 - 224+10.00	1		2
SHEET 10 OF 13	224+10.00 - 226+50.00	1		1
SHEET 11 OF 13	226+50.00 - 228+90.00	1		1
SHEET 12 OF 13	228+90.00 - 231+30.00		1	1
SHEET 13 OF 13	231+30.00 - 232+50.00			
	CSJ: 0323-03-034 TOTALS	5	2	10

SH 95 FLATONIA SUMMARY OF MAILBOXES

LAYOUT SHEET	STATION RANGE	560
		RELOCATE EXISTING MAILBOX
		EA
SHEET 1 OF 13	203+00.00 - 204+90.00	
SHEET 2 OF 13	204+90.00 - 207+30.00	
SHEET 3 OF 13	207+30.00 - 209+70.00	
SHEET 4 OF 13	209+70.00 - 212+10.00	
SHEET 5 OF 13	212+10.00 - 214+50.00	
SHEET 6 OF 13	214+50.00 - 216+90.00	
SHEET 7 OF 13	216+90.00 - 219+30.00	
SHEET 8 OF 13	219+30.00 - 221+70.00	1
SHEET 9 OF 13	221+70.00 - 224+10.00	
SHEET 10 OF 13	224+10.00 - 226+50.00	
SHEET 11 OF 13	226+50.00 - 228+90.00	
SHEET 12 OF 13	228+90.00 - 231+30.00	
SHEET 13 OF 13	231+30.00 - 232+50.00	
	CSJ: 0323-03-034 TOTALS	1

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS
SH 95 FLATONIA
CSJ: 0323-03-034

SHEET 2 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		19

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DW: CK: DW: CK:

UA 77 / UA 90 HALLETTSVILLE SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	104	110	132	162	166	168	334	530	531	531	6185
		REMOVING CONC (DRIVEWAYS)	EXCAVATION (ROADWAY)	EMBANKMENT (VEHICLE)(ORD COMP)(TY C)	BLOCK SODDING	* FERTILIZER	VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES)	** HMCL ACP TY-C AC-0.6	DRIVEWAYS (CONC)	CONC SIDEWALKS (5")	CURB RAMPS (TY 7)	TMA (STATIONARY)
		SY	CY	CY	SY	TON	MG	TON	SY	SY	SY	DAY
SHEET 1 OF 30	572+00.00 - 574+00.00			4	44	0.002	0.4			49	10	
SHEET 2 OF 30	574+00.00 - 576+40.00			9	95	0.005	0.8		32	95		
SHEET 3 OF 30	576+40.00 - 578+80.00	39	8	4	83	0.004	0.7	10	23	100		
SHEET 4 OF 30	578+80.00 - 580+00.00		10	2	53	0.003	0.4	9		53		
	CSJ: 0269-03-040 TOTALS	39	18	19	275	0.014	2.3	19	55	297	10	2

UA 77 / UA 90 HALLETTSVILLE SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	560
		RELOCATE EXISTING MAILBOX
		EA
SHEET 1 OF 30	572+00.00 - 574+00.00	
SHEET 2 OF 30	574+00.00 - 576+40.00	1
SHEET 3 OF 30	576+40.00 - 578+80.00	
SHEET 4 OF 30	578+80.00 - 580+00.00	
	CSJ: 0269-03-040 TOTALS	1

* FOR CONTRACTOR'S INFORMATION ONLY.
FERTILIZER QUANTITY BASED ON 500 LBS/ACRE.

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF
SIDEWALKS
UA 77 / UA 90 HALLETTSVILLE
CSJ: 0269-03-040

SHEET 1 OF 6

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		20

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DW: CK: DW: CK:

US 77 / UA 90 HALLETTSVILLE SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	110	132	162	166	168	334	531	6185
		EXCAVATION (ROADWAY)	EMBANKMENT (VEHICLE) (ORD COMP) (TY C)	BLOCK SODDING	* FERTILIZER	VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES)	** HMCL ACP TY-C AC-0.6	CONC SIDEWALKS (5")	TMA (STATIONARY)
		CY	CY	SY	TON	MG	TON	SY	DAY
SHEET 4 OF 30	580+00.00 - 581+20.00	13	1	24	0.001	0.2	11	53	
SHEET 5 OF 30	581+20.00 - 582+64.00	18		1	0.000	0.0	18	64	
	CSJ: 0370-01-040 TOTALS	31	1	25	0.001	0.2	29	117	2

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS
UA 77 / UA 90 HALLETTSVILLE
CSJ: 0370-01-040

SHEET 2 OF 6

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		21

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DW: CK: DW: CK:

US 77 / UA 90 HALLETTSVILLE SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	104	104	104	110	132	162	166	168	334	529	530	531
		REMOVING CONC (DRIVEWAYS)	REMOVING CONC (CURB)	REMOVING CONC (CURB AND GUTTER)	EXCAVATION (ROADWAY)	EMBANKMENT (VEHICLE)(ORD COMP)(TY C)	BLOCK SODDING	* FERTILIZER	VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES)	** HMCL ACP TY-C AC-0.6	CONC CURB & GUTTER (TY II)	DRIVEWAYS (CONC)	CONC SIDEWALKS (5")
		SY	LF	LF	CY	CY	SY	TON	MG	TON	LF	SY	SY
SHEET 5 OF 30	582+64.00 - 583+60.00				10		9	0.000	0.1	10			43
SHEET 6 OF 30	583+60.00 - 586+00.00		44			1	18	0.001	0.2		44		21
SHEET 7 OF 30	586+00.00 - 588+40.00	39	15				3	0.000	0.0			50	65
SHEET 8 OF 30	588+40.00 - 590+80.00	30		18		1	69	0.004	0.6		18	19	96
SHEET 9 OF 30	590+80.00 - 593+20.00			17	11		25	0.001	0.2	11			20
SHEET 10 OF 30	593+20.00 - 595+60.00	5			12					12			
SHEET 11 OF 30	595+60.00 - 598+00.00												8
SHEET 12 OF 30	598+00.00 - 600+40.00 R2						30	0.002	0.3				44
SHEET 13 OF 30	600+40.00 R2 - 602+80.00 R2												
SHEET 14 OF 30	602+80.00 R2 - 605+20.00 R2	68	9	18	14		2	0.000	0.0	7		59	12
SHEET 15 OF 30	605+20.00 R2 - 607+60.00 R2	35		33	13		12	0.001	0.1	4		106	56
SHEET 16 OF 30	607+60.00 R2 - 610+00.00 R2	45	98	21	7		19	0.001	0.2	5	98	59	108
SHEET 17 OF 30	610+00.00 R2 - 612+40.00 R2	29	14	16	7		7	0.000	0.1	2		32	16
SHEET 18 OF 30	612+40.00 R2 - 614+00.00 R2						135	0.007	1.1				
	CSJ: 0269-02-067 TOTALS	251	180	123	74	2	329	0.017	2.8	51	160	325	489

US 77 / UA 90 HALLETTSVILLE SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	531	531	531	6185
		CURB RAMPS (TY 1)	CURB RAMPS (TY 7)	CURB RAMPS (TY 10)	TMA (STATIONARY)
		SY	SY	SY	DAY
SHEET 5 OF 30	582+64.00 - 583+60.00				
SHEET 6 OF 30	583+60.00 - 586+00.00				
SHEET 7 OF 30	586+00.00 - 588+40.00				
SHEET 8 OF 30	588+40.00 - 590+80.00				
SHEET 9 OF 30	590+80.00 - 593+20.00			7	
SHEET 10 OF 30	593+20.00 - 595+60.00			9	
SHEET 11 OF 30	595+60.00 - 598+00.00				
SHEET 12 OF 30	598+00.00 - 600+40.00 R2				
SHEET 13 OF 30	600+40.00 R2 - 602+80.00 R2				
SHEET 14 OF 30	602+80.00 R2 - 605+20.00 R2			5	
SHEET 15 OF 30	605+20.00 R2 - 607+60.00 R2		9	28	
SHEET 16 OF 30	607+60.00 R2 - 610+00.00 R2	21			
SHEET 17 OF 30	610+00.00 R2 - 612+40.00 R2				
SHEET 18 OF 30	612+40.00 R2 - 614+00.00 R2				
	CSJ: 0269-02-067 TOTALS	21	9	49	10

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS
US 77 / UA 90 HALLETTSVILLE
CSJ: 0269-02-067

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.

DIST	COUNTY	SHEET NO.
YKM	COLORADO, ETC.	22

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US 77 / UA 90 HALLETTSVILLE SUMMARY OF PAVEMENT MARKING ITEMS

LAYOUT SHEET	STATION RANGE	668	677
		PREFAB PAV MRK TY C (W) (24") (SLD)	ELIM EXT PAV MRK & MRKS (12")
		LF	LF
SHEET 5 OF 30	582+64.00 - 583+60.00		
SHEET 6 OF 30	583+60.00 - 586+00.00		
SHEET 7 OF 30	586+00.00 - 588+40.00		
SHEET 8 OF 30	588+40.00 - 590+80.00		
SHEET 9 OF 30	590+80.00 - 593+20.00		
SHEET 10 OF 30	593+20.00 - 595+60.00		
SHEET 11 OF 30	595+60.00 - 598+00.00		
SHEET 12 OF 30	598+00.00 - 600+40.00 R2		
SHEET 13 OF 30	600+40.00 R2 - 602+80.00 R2		
SHEET 14 OF 30	602+80.00 R2 - 605+20.00 R2		
SHEET 15 OF 30	605+20.00 R2 - 607+60.00 R2		
SHEET 16 OF 30	607+60.00 R2 - 610+00.00 R2	85	150
SHEET 17 OF 30	610+00.00 R2 - 612+40.00 R2		
SHEET 18 OF 30	612+40.00 R2 - 614+00.00 R2		
	CSJ: 0269-02-067 TOTALS	85	150

UA 77 / UA 90 HALLETTSVILLE SUMMARY OF SIGNING ITEMS

LAYOUT SHEET	STATION RANGE	644	644
		RELOCATE SM RD SN SUP&AM TY 10BWG	RELOCATE SM RD SN SUP&AM TY S80
		EA	EA
SHEET 5 OF 30	582+64.00 - 583+60.00		
SHEET 6 OF 30	583+60.00 - 586+00.00		
SHEET 7 OF 30	586+00.00 - 588+40.00		
SHEET 8 OF 30	588+40.00 - 590+80.00		
SHEET 9 OF 30	590+80.00 - 593+20.00		
SHEET 10 OF 30	593+20.00 - 595+60.00		
SHEET 11 OF 30	595+60.00 - 598+00.00		
SHEET 12 OF 30	598+00.00 - 600+40.00 R2		
SHEET 13 OF 30	600+40.00 R2 - 602+80.00 R2		
SHEET 14 OF 30	602+80.00 R2 - 605+20.00 R2		
SHEET 15 OF 30	605+20.00 R2 - 607+60.00 R2	2	
SHEET 16 OF 30	607+60.00 R2 - 610+00.00 R2		
SHEET 17 OF 30	610+00.00 R2 - 612+40.00 R2		
SHEET 18 OF 30	612+40.00 R2 - 614+00.00 R2		1
	CSJ: 0269-02-067 TOTALS	2	1

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF
SIDEWALKS
US 77 / UA 90 HALLETTSVILLE
CSJ: 0269-02-067

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		23

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UA 90 HALLETTSVILLE SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	100 PREPARING ROW(TREE) (12" TO 24"DIA)	104 REMOVING CONC (DRIVEWAYS)	104 REMOVING CONC (CURB)	104 REMOVING CONC (CURB AND GUTTER)	104 REMOVING CONC (MISC)	110 EXCAVATION (ROADWAY)	162 BLOCK SODDING	166 * FERTILIZER	168 VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES)	334 ** HMCL ACP TY-C AC-0.6	529 CONC CURB (TY II)	529 CONC CURB & GUTTER (TY II)	529 CONC CURB (TY C1)
		EA	SY	LF	LF	SY	CY	SY	TON	MG	TON	LF	LF	LF
SHEET 18 OF 30	614+00.00 R2 - 614+80.00 R2		31					9	0.000	0.1				
SHEET 19 OF 30	614+80.00 R2 - 617+20.00 R2		27		102			27	0.001	0.2			82	
SHEET 20 OF 30	617+20.00 R2 - 619+60.00 R2		16		12			37	0.002	0.3				
SHEET 21 OF 30	619+60.00 R2 - 622+00.00 R2		24	68	81		2	57	0.003	0.5	1	4		53
SHEET 22 OF 30	622+00.00 R2 - 624+40.00 R2		26		37		6	62	0.003	0.5	4			
SHEET 23 OF 30	624+40.00 R2 - 626+80.00 R2		19		78		5	22	0.001	0.2	5			
SHEET 24 OF 30	626+80.00 R2 - 629+20.00 R2		20	21	48	7	21	15	0.001	0.1	12		20	
SHEET 25 OF 30	629+20.00 R2 - 631+60.00 R2				57			69	0.004	0.6			23	
SHEET 26 OF 30	631+60.00 R2 - 634+00.00 R2		14		26			100	0.005	0.8				
SHEET 27 OF 30	634+00.00 R2 - 636+40.00 R2	1					10	85	0.004	0.7	6			
SHEET 28 OF 30	634+40.00 R2 - 638+80.00 R2							57	0.003	0.5				
SHEET 29 OF 30	638+80.00 R2 - 641+20.00 R2			10	19			54	0.003	0.5				
SHEET 30 OF 30	641+20.00 R2 - 641+50.00 R2													
	CSJ: 0446-01-054 TOTALS	1	177	99	460	7	44	594	0.031	5.0	28	4	125	53

UA 90 HALLETTSVILLE SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	530 DRIVEWAYS (CONC)	531 CONC SIDEWALKS (5")	531 CONC SIDEWALKS (6")	531 CURB RAMPS (TY 1)	531 CURB RAMPS (TY 7)	531 CURB RAMPS (TY 10)	560 RELOCATE EXISTING MAILBOX	6185 TMA (STATIONARY)
		SY	SY	SY	SY	SY	SY	EA	DAY
SHEET 18 OF 30	614+00.00 R2 - 614+80.00 R2								
SHEET 19 OF 30	614+80.00 R2 - 617+20.00 R2		72				12		
SHEET 20 OF 30	617+20.00 R2 - 619+60.00 R2	24	112				10		
SHEET 21 OF 30	619+60.00 R2 - 622+00.00 R2	20	154	33			44		
SHEET 22 OF 30	622+00.00 R2 - 624+40.00 R2	33	135				23	1	
SHEET 23 OF 30	624+40.00 R2 - 626+80.00 R2	32	162				42		
SHEET 24 OF 30	626+80.00 R2 - 629+20.00 R2	98	101			8	22		
SHEET 25 OF 30	629+20.00 R2 - 631+60.00 R2	7	161		17	7	8		
SHEET 26 OF 30	631+60.00 R2 - 634+00.00 R2	52	110				16		
SHEET 27 OF 30	634+00.00 R2 - 636+40.00 R2	28	117						
SHEET 28 OF 30	634+40.00 R2 - 638+80.00 R2	24	118						
SHEET 29 OF 30	638+80.00 R2 - 641+20.00 R2		87				7		
SHEET 30 OF 30	641+20.00 R2 - 641+50.00 R2								
	CSJ: 0446-01-054 TOTALS	318	1329	33	17	15	184	1	10

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YKM DISTRICT SIDEWALKS

SUMMARY OF
SIDEWALKS
UA 90 HALLETTSVILLE
CSJ: 0446-01-054

SHEET 5 OF 6

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		24

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CK: CK: DW: CK:

UA 90 HALLETTSVILLE SUMMARY OF PAVEMENT MARKING ITEMS

LAYOUT SHEET	STATION RANGE	668	677
		PREFAB PAV MRK TY C (W) (24") (SLD)	ELIM EXT PAV MRK & MRKS (12")
		LF	LF
SHEET 18 OF 30	614+00.00 R2 - 614+80.00 R2		
SHEET 19 OF 30	614+80.00 R2 - 617+20.00 R2		
SHEET 20 OF 30	617+20.00 R2 - 619+60.00 R2		
SHEET 21 OF 30	619+60.00 R2 - 622+00.00 R2		
SHEET 22 OF 30	622+00.00 R2 - 624+40.00 R2		
SHEET 23 OF 30	624+40.00 R2 - 626+80.00 R2		
SHEET 24 OF 30	626+80.00 R2 - 629+20.00 R2		
SHEET 25 OF 30	629+20.00 R2 - 631+60.00 R2	68	80
SHEET 26 OF 30	631+60.00 R2 - 634+00.00 R2	68	80
SHEET 27 OF 30	634+00.00 R2 - 636+40.00 R2		
SHEET 28 OF 30	634+40.00 R2 - 638+80.00 R2		
SHEET 29 OF 30	638+80.00 R2 - 641+20.00 R2		
SHEET 30 OF 30	641+20.00 R2 - 641+50.00 R2		
	CSJ: 0446-01-054 TOTALS	136	160

UA 90 HALLETTSVILLE SUMMARY OF SIGNING ITEMS

LOCATION	STATION RANGE	644	644
		RELOCATE SM RD SN SUP&AM TY 10BWG	RELOCATE SM RD SN SUP&AM TY TWT
		EA	EA
SHEET 18 OF 30	614+00.00 R2 - 614+80.00 R2		
SHEET 19 OF 30	614+80.00 R2 - 617+20.00 R2		
SHEET 20 OF 30	617+20.00 R2 - 619+60.00 R2	1	
SHEET 21 OF 30	619+60.00 R2 - 622+00.00 R2	1	1
SHEET 22 OF 30	622+00.00 R2 - 624+40.00 R2	1	
SHEET 23 OF 30	624+40.00 R2 - 626+80.00 R2		2
SHEET 24 OF 30	626+80.00 R2 - 629+20.00 R2	1	1
SHEET 25 OF 30	629+20.00 R2 - 631+60.00 R2	2	
SHEET 26 OF 30	631+60.00 R2 - 634+00.00 R2		
SHEET 27 OF 30	634+00.00 R2 - 636+40.00 R2		1
SHEET 28 OF 30	634+40.00 R2 - 638+80.00 R2	1	
SHEET 29 OF 30	638+80.00 R2 - 641+20.00 R2	3	
SHEET 30 OF 30	641+20.00 R2 - 641+50.00 R2		
	CSJ: 0446-01-054 TOTALS	10	5

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YKM DISTRICT SIDEWALKS

SUMMARY OF
SIDEWALKS
UA 90 HALLETTSVILLE
CSJ: 0446-01-054

SHEET 6 OF 6

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		25

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US 77A YOAKUM-LAVACA SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	104 REMOVING CONC (DRIVEWAYS)	104 REMOVING CONC (CURB AND GUTTER)	132 EMBANKMENT (VEHICLE) (ORD COMP) (TY C)	162 BLOCK SODDING	166 * FERTILIZER	168 VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES)	334 ** HMCL ACP TY-C AC-0.6	529 CONC CURB & GUTTER (TY II)	530 DRIVEWAYS (CONC)	531 CONC SIDEWALKS (5")
		SY	LF	CY	SY	TON	MG	TON	LF	SY	SY
SHEET 1 OF 19	844+50.00 - 845+90.00				58	0.003	0.5				86
SHEET 2 OF 19	845+90.00 - 848+30.00			2	94	0.005	0.8	2	43	22	135
SHEET 3 OF 19	848+30.00 - 850+70.00				95	0.005	0.8	2	25	22	136
SHEET 4 OF 19	850+70.00 - 853+10.00		16	12	83	0.004	0.7	2		33	106
SHEET 5 OF 19	853+10.00 - 855+50.00		15	16	80	0.004	0.7	4		54	102
SHEET 6 OF 19	855+50.00 - 857+90.00		34	9	98	0.005	0.8				118
SHEET 7 OF 19	857+90.00 - 860+30.00	100	14	68	153	0.008	1.3	7		175	201
SHEET 8 OF 19	860+30.00 - 862+70.00			45	95	0.005	0.8	12		195	203
SHEET 9 OF 19	862+70.00 - 865+10.00		24	155	172	0.009	1.4	2		48	251
SHEET 10 OF 19	865+10.00 - 867+50.00		14	69	155	0.008	1.3	8	43	256	217
SHEET 11 OF 19	867+50.00 - 868+00.00		14	4	5	0.000	0.0				
	CSJ: 0269-04-041 TOTALS	100	131	380	1088	0.056	9.2	39	111	805	1555

US 77A YOAKUM-LAVACA SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	531 CURB RAMPS (TY 7)	531 CURB RAMPS (TY 10)	6185 TMA (STATIONARY)
		SY	SY	DAY
SHEET 1 OF 19	844+50.00 - 845+90.00			
SHEET 2 OF 19	845+90.00 - 848+30.00			
SHEET 3 OF 19	848+30.00 - 850+70.00			
SHEET 4 OF 19	850+70.00 - 853+10.00		16	
SHEET 5 OF 19	853+10.00 - 855+50.00		14	
SHEET 6 OF 19	855+50.00 - 857+90.00		28	
SHEET 7 OF 19	857+90.00 - 860+30.00		21	
SHEET 8 OF 19	860+30.00 - 862+70.00			
SHEET 9 OF 19	862+70.00 - 865+10.00		28	
SHEET 10 OF 19	865+10.00 - 867+50.00	9	14	
SHEET 11 OF 19	867+50.00 - 868+00.00		6	
	CSJ: 0269-04-041 TOTALS	9	127	5

US 77A YOAKUM-LAVACA SUMMARY OF SIGNAGE ITEMS

LAYOUT SHEET	STATION RANGE	644 RELOCATE SM RD SN SUP&AM TY 10BWG	644 RELOCATE SM RD SN SUP&AM TY S80	644 RELOCATE SM RD SN SUP&AM TY TWT
		EA	EA	EA
SHEET 1 OF 19	844+50.00 - 845+90.00			
SHEET 2 OF 19	845+90.00 - 848+30.00			
SHEET 3 OF 19	848+30.00 - 850+70.00			
SHEET 4 OF 19	850+70.00 - 853+10.00			
SHEET 5 OF 19	853+10.00 - 855+50.00			
SHEET 6 OF 19	855+50.00 - 857+90.00			
SHEET 7 OF 19	857+90.00 - 860+30.00			
SHEET 8 OF 19	860+30.00 - 862+70.00	1	1	
SHEET 9 OF 19	862+70.00 - 865+10.00			2
SHEET 10 OF 19	865+10.00 - 867+50.00			
SHEET 11 OF 19	867+50.00 - 868+00.00			
	CSJ: 0269-04-041 TOTALS	1	1	2

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YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS
US 77A YOAKUM
CSJ: 0269-04-041

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		26

DATE: 6/4/2024 6:31:51 PM
FILE: G:\TXC\Projects\TxDOT\313-08 Supplemental to YKM Sidewalk Pack 1415832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01_Shts\00-GEN\YKM14_YOAKUM_US77A_LAVACA_RDWY_SUM_01.dgn

US 77A YOAKUM-DEWITT SIDEWALK SUMMARY

LAYOUT SHEET	STATION RANGE	104 REMOVING CONC (DRIVEWAYS) SY	104 REMOVING CONC (CURB) LF	104 REMOVING CONC (CURB AND GUTTER) LF	132 EMBANKMENT (VEHICLE)(ORD COMP)(TY C) CY	162 BLOCK SODDING SY	166 * FERTILIZER TON	168 VEGETATIVE WATERING (13.58 MG/AC X 3 CYCLES) MG	334 ** HMCL ACP TY-C AC-0.6 TON	530 DRIVEWAYS (CONC) SY	531 CONC SIDEWALKS (5") SY
SHEET 11 OF 19	868+00.00 - 869+90.00			41	47	119	0.006	1.0	3	27	136
SHEET 12 OF 19	869+90.00 - 872+30.00	190		50	106	125	0.006	1.1		83	284
SHEET 13 OF 19	872+30.00 - 874+70.00			64	49	131	0.007	1.1	4	39	158
SHEET 14 OF 19	874+70.00 - 877+10.00				24	194	0.010	1.6	4	36	291
SHEET 15 OF 19	877+10.00 - 879+50.00			52	8	210	0.011	1.8	2	24	255
SHEET 16 OF 19	879+50.00 - 881+90.00		12	14	1	109	0.006	0.9	17	166	170
SHEET 17 OF 19	881+90.00 - 884+30.00		12	45	2	151	0.008	1.3	3	51	266
SHEET 18 OF 19	884+30.00 - 886+70.00	99		92	1	126	0.007	1.1	3	100	189
SHEET 19 OF 19	886+70.00 - 888+00.00			4		14	0.001	0.1			21
	CSJ: 0269-05-037 TOTALS	289	24	362	238	1179	0.061	9.9	36	526	1770

US 77A YOAKUM-DEWITT SIDEWALK SUMMARY (CONT)

LAYOUT SHEET	STATION RANGE	531 CURB RAMPS (TY 7) SY	531 CURB RAMPS (TY 10) SY	531 CONC SIDEWALKS (SPECIAL) (TYPE A) SY	6185 TMA (STATIONARY) DAY
SHEET 11 OF 19	868+00.00 - 869+90.00		38		
SHEET 12 OF 19	869+90.00 - 872+30.00				
SHEET 13 OF 19	872+30.00 - 874+70.00		58		
SHEET 14 OF 19	874+70.00 - 877+10.00				
SHEET 15 OF 19	877+10.00 - 879+50.00	20			
SHEET 16 OF 19	879+50.00 - 881+90.00			3	
SHEET 17 OF 19	881+90.00 - 884+30.00				
SHEET 18 OF 19	884+30.00 - 886+70.00				
SHEET 19 OF 19	886+70.00 - 888+00.00				
	CSJ: 0269-05-037 TOTALS	20	96	3	5

US 77A YOAKUM-DEWITT SUMMARY OF SIGNAGE ITEMS

LAYOUT SHEET	STATION RANGE	644 RELOCATE SM RD SN SUP&AM TY 10BWG EA	644 RELOCATE SM RD SN SUP&AM TY TWT EA
SHEET 11 OF 19	868+00.00 - 869+90.00		
SHEET 12 OF 19	869+90.00 - 872+30.00	2	
SHEET 13 OF 19	872+30.00 - 874+70.00		
SHEET 14 OF 19	874+70.00 - 877+10.00		2
SHEET 15 OF 19	877+10.00 - 879+50.00	3	
SHEET 16 OF 19	879+50.00 - 881+90.00		1
SHEET 17 OF 19	881+90.00 - 884+30.00	1	
SHEET 18 OF 19	884+30.00 - 886+70.00	1	
SHEET 19 OF 19	886+70.00 - 888+00.00		1
	CSJ: 0269-05-037 TOTALS	7	4

* FOR CONTRACTOR'S INFORMATION ONLY.
FERTILIZER QUANTITY BASED ON 500 LBS/ACRE.

** FOR CONTRACTOR'S INFORMATION ONLY.

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF SIDEWALKS
US 77A YOAKUM
CSJ: 0269-05-037

SHEET 2 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		27

DATE: 6/4/2024 6:31:52 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01_Shts\00-GENYKM14_YOAKUM_US77A_DEWITT_RDWY_SUM_01.dgn

US 90 WEIMAR DRIVEWAY SUMMARY																		
DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
1	1	757+76	RT	OFF BOC	ASPHALT	CONCRETE	35.50	23.50	13.00	3.50	5.00	4.50	0.00	13.00	6.00	6.00	37	RESIDENTIAL
2	2	758+76	RT	OFF BOC	ASPHALT	CUT AND RESTORE												RESIDENTIAL
3	3	783+94 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
4	3	784+87 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
5	4	786+68 R2	RT	ADJ BOC	CONCRETE	CONCRETE	16.00	12.00	11.50	3.50	4.00	4.00	0.00	11.50	NA	NA	17	RESIDENTIAL
6	5	788+63 R2	RT	ADJ BOC	CONCRETE	CONCRETE	44.00	38.00	11.75	4.25	5.00	2.50	0.00	11.75	3.00	3.00	51	COMMERCIAL
6A	5	789+40 R2	RT	ADJ BOC	CONCRETE	CONCRETE	44.00	39.75	11.25	4.00	5.00	2.50	1.00	12.25	5.00	5.00	56	COMMERCIAL
7	5	790+29 R2	RT	ADJ BOC	CONCRETE	CONCRETE	124.00	120.00	11.50	4.00	5.00	2.50	0.00	11.50	NA	NA	154	COMMERCIAL
8	7	794+17 R2	RT	ADJ BOC	CONCRETE	CONCRETE	89.00	85.00	11.50	5.00	4.00	2.50	1.25	12.75	NA	NA	122	COMMERCIAL
9	7	794+92 R2	RT	ADJ BOC	CONCRETE	CONCRETE	55.00	51.00	11.50	5.00	4.00	2.50	0.00	11.50	NA	NA	68	COMMERCIAL
10	7	795+38 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
11	8	795+89 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
12	11	803+24 R2	RT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
13	11	803+85 R2	RT	OFF EOP	CONCRETE	CONCRETE	73.50	69.50	11.25	3.75	5.00	2.50	0.00	11.25	NA	NA	90	COMMERCIAL
14	12	805+11 R2	RT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
15	12	805+85 R2	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
16	12	806+48 R2	RT	ADJ BOC	CONCRETE/GRAVEL	NO PROPOSED WORK												COMMERCIAL
17	12	807+24 R2	LT	ADJ BOC	CONCRETE	CONCRETE	73.00	57.00	12.25	6.25	4.00	2.00	0.00	12.25	8.00	8.00	83	COMMERCIAL
18	13	807+79 R2	RT	OFF EOP	CONCRETE	CONCRETE	30.25	24.00	9.75	3.75	4.00	2.00	0.00	9.75	NA	NA	29	COMMERCIAL
19	13	808+65 R2	RT	ADJ BOC	CONCRETE	CONCRETE	24.00	20.00	11.25	3.75	4.00	3.50	1.50	11.25	3.00	3.00	29	RESIDENTIAL
20	13	808+83 R2	LT	ADJ BOC	ASPHALT	CONCRETE	20.00	16.00	7.75	2.25	4.00	1.50	0.00	7.75	NA	NA	16	COMMERCIAL
21	13	809+39 R2	RT	ADJ BOC	CONCRETE	CONCRETE	26.00	22.00	11.00	3.50	4.00	3.50	0.00	11.00	3.00	3.00	28	COMMERCIAL
22	14	810+14 R2	LT	ADJ BOC	ASPHALT	CONCRETE	20.25	16.25	10.25	4.25	5.00	1.00	1.00	11.25	4.00	4.00	21	COMMERCIAL
23	14	810+16 R2	RT	ADJ BOC	CONCRETE	CONCRETE	29.75	25.75	11.00	3.50	4.00	3.50	0.00	11.00	3.00	3.00	33	RESIDENTIAL
24	15	814+03 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
25	16	815+46 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
26	16	816+04 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
27	17	817+54 R2	RT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
28	17	818+25 R2	RT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
29	18	819+83 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
30	18	820+56 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
31	19	823+94 R2	RT	ADJ BOC	ASPHALT	NO PROPOSED WORK												COMMERCIAL
32	20	826+46 R2	RT	ADJ BOC	ASPHALT	NO PROPOSED WORK												COMMERCIAL
															TOTAL		834	

SEE "CUT AND RESTORE" DETAIL ON "MISCELLANEOUS SIDEWALK DETAILS" SHEET.

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS US 90 WEIMAR CSJ: 0026-04-048

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		28

DATE: 6/4/2024 6:31:53 PM
FILE: G:\TXC\Projects\TxDOT\313-08 Supplemental to YKM Sidewalk Pack 1415832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01 Shts\00-GENYKM14 WEIMAR DRIVEWAY SUM 01.dgn

US 87 CUERO DRIVEWAY SUMMARY																		
DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
A	5	17+87	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
B	6	19+45	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
1	10	30+76	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
2	11	33+33	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
3	13	36+63	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
4	13	37+44	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
5	14	39+87	LT	OFF EOP	ASPHALT	CONCRETE	43.75	23.75	13.25	3.50	5.00	4.75	0.00	13.25	NA	NA	44	COMMERCIAL
6	15	41+46	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
7	16	44+70	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
8	17	47+92	LT	OFF EOP	CONCRETE													COMMERCIAL
															TOTAL		44	

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS US 87 CUERO CSJ: 0143-09-071

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		29

DATE: 6/4/2024 6:31:53 PM
FILE: G:\YKC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03_CADD\01_Shts\00-GEN\YKM14_CUERO-US87_DRIVEWAY_SUM_01.dgn

DSN: CK: DW: CK:

US 183 CUERO DRIVEWAY SUMMARY																			
DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
1	1	1689+52	LT	ADJ BOC	CONCRETE	CONCRETE	38.50	40.50	13.00	5.00	5.00	3.25	0.00	13.00	NA	NA	57	COMMERCIAL
2	1	1690+10	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
3	2	1690+91	LT	OFF BOC	ASPHALT	CONCRETE	33.00	27.00	17.75	10.50	5.00	2.50	0.00	17.75	15.00	15.00	57	RESIDENTIAL
4	2	1691+19	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
5	3	1693+48	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
6	3	1694+09	RT	OFF BOC	CONCRETE	CONCRETE	42.00	38.00	10.50	4.50	5.00	1.00	0.00	10.50	25.00	25.00	47	COMMERCIAL
5A	3	1694+48	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
7	3	1695+03	RT	OFF BOC	CONCRETE	CONCRETE	49.00	44.00	11.50	4.50	5.00	2.00	0.00	11.50	25.00	25.00	60	COMMERCIAL
8	3	1695+20	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
8A	4	1695+82	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
9	4	1696+10	RT	ADJ BOC	GRAVEL	CUT AND RESTORE												COMMERCIAL
10	5	1698+92	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
11	5	1698+97	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
11A	5	1699+74	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
12	7	1703+06	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
13	7	1703+65	RT	ADJ BOC	GRAVEL	CUT AND RESTORE												COMMERCIAL
13A	7	1704+45	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
13B	7	1704+94	RT	ADJ BOC	GRAVEL	CUT AND RESTORE												COMMERCIAL
14	8	1706+02	LT	OFF BOC	CONCRETE/GRAVEL	CONCRETE	48.00	34.00	14.25	3.75	5.00	5.50	0.00	14.25	15.00	15.00	62	COMMERCIAL
15	8	1707+36	RT	ADJ BOC	GRAVEL	CUT AND RESTORE												RESIDENTIAL
16	8	1707+47	LT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
17	9	1708+16	LT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
17A	9	1708+79	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
18	9	1708+82	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
18A	9	1709+70	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
18B	10	1710+43	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
19	10	1710+61	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
18C	10	1711+17	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
20	11	1713+02	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
21	11	1714+34	RT	OFF BOC	CONCRETE	CONCRETE	20.00	10.00	15.00	4.25	5.00	5.75	0.00	15.00	15.00	15.00	22	COMMERCIAL
22	11	1714+63	LT	ADJ BOC	GRAVEL	CUT AND RESTORE												COMMERCIAL
23	12	1715+40	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
23A	12	1716+09	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
24	12	1716+59	RT	OFF BOC	CONCRETE	CONCRETE	146.00	122.50	14.00	6.00	5.00	3.00	0.00	14.00	25.00	25.00	206	COMMERCIAL
24A	12	1716+84	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
25	13	1717+54	LT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
26	13	1717+68	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
27	13	1718+49	LT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
28	13	1719+17	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
29	14	1719+71	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
30	14	1720+47	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
31	14	1720+50	LT	ADJ BOC	CONCRETE/ASPHALT	CUT AND RESTORE												COMMERCIAL
31A	14	1721+09	LT	ADJ BOC	CONCRETE/ASPHALT	CUT AND RESTORE												COMMERCIAL
32	14	1721+22	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
33	14	1721+64	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
34	15	1724+38	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
35	16	1725+87	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
36	16	1726+68	RT	ADJ BOC	ASPHALT	CUT AND RESTORE												COMMERCIAL
37	16	1726+73	LT	ADJ BOC	ASPHALT	NO PROPOSED WORK												COMMERCIAL
38	18	1731+04	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
39	19	1731+86	LT	OFF BOC	CONCRETE	CONCRETE	44.00	34.25	15.25	5.75	5.00	4.50	0.00	15.25	25.00	25.00	64	COMMERCIAL
40	19	1732+53	LT	OFF BOC	CONCRETE	CONCRETE	42.00	32.00	15.25	5.75	5.00	4.50	0.00	15.25	25.00	25.00	61	COMMERCIAL
41	19	1733+38	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
42	20	1734+84	LT	OFF BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
43	20	1735+52	LT	OFF BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
44	20	1736+07	RT	OFF BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
45	20	1736+12	LT	OFF BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
46	20	1736+37	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
47	21	1736+89	LT	OFF BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
48	21	1736+93	RT	ADJ BOC	ASPHALT	NO PROPOSED WORK												COMMERCIAL
49	22	1739+75	RT	OFF BOC	CONCRETE	CONCRETE	36.00	34.00	16.00	8.75	5.00	1.75	2.50	18.50	25.00	25.00	69	COMMERCIAL
															TOTAL		705	

SEE "CUT AND RESTORE" DETAIL ON "MISCELLANEOUS SIDEWALK DETAILS" SHEET.

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS US 183 CUERO CSJ: 0269-06-060

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		30

DATE: 6/4/2024 6:31:54 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01 Shts\00-GEN\YKM14 CUERO-US183 DRIVEWAY SUM 01.dgn

CK: | DW: | CC: | DW:

SH 95 FLATONIA DRIVEWAY SUMMARY																		
DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
1	1	204+20	LT	ADJ BOC	GRAVEL	NO PROPOSED WORK												COMMERCIAL
2	2	205+51	LT	ADJ BOC	ASPHALT	CONCRETE	16	10	6	0	6	0	0	6	NA	NA	7	COMMERCIAL
2A	3	208+19	LT	ADJ BOC	GRAVEL	CONCRETE	12	8	8.25	0	6	2	0	8.25	NA	NA	6	COMMERCIAL
2B	3	209+33	LT	ADJ BOC	NATURAL GROUND	CONCRETE	74	66	8.5	0	6	2.5	0	8.5	NA	NA	45	COMMERCIAL
3	6	215+64	LT	OFF BOC	GRAVEL	CONCRETE	18.5	14	8.5	2	4	2.5	0	8.5	NA	NA	12	RESIDENTIAL
4	7	217+54	LT	OFF BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
4A	8	219+95	RT	ADJ BOC	NATURAL GROUND	CONCRETE	28	20	6.25	0	6.25	0	0	6.25	NA	NA	15	COMMERCIAL
4B	8	219+96	LT	OFF BOC	NATURAL GROUND	CONCRETE	24	20	7.5	2.5	5	0	0	7.5	2	2	17	COMMERCIAL
5	8	220+71	LT	ADJ BOC	GRAVEL	CONCRETE	26	20	6	0	5	1	0	6	NA	NA	14	RESIDENTIAL
6	8	220+73	RT	ADJ BOC	NATURAL GROUND	CONCRETE	21	13	5	0	5	0	0	5	NA	NA	8	RESIDENTIAL
7	9	223+50	RT	ADJ BOC	ASPHALT	CONCRETE	19	13	6	0	5	1	0	6	NA	NA	10	RESIDENTIAL
7A	9	223+55	LT	ADJ BOC	NATURAL GROUND	CONCRETE	35	23	8	0	5	3	0	8	NA	NA	14	COMMERCIAL
8	11	226+66	RT	ADJ BOC	CONCRETE	CONCRETE	29	21	7	0	5	2	0	7	NA	NA	22	RESIDENTIAL
8A	11	227+13	LT	ADJ BOC	NATURAL GROUND	CONCRETE	24	16	5	2.75	5	0	0	7.75	NA	NA	15	RESIDENTIAL
9	12	229+73	LT	OFF BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
10	12	229+80	RT	OFF BOC	NATURAL GROUND	CONCRETE	28	24	12	6.5	5	0.5	0	12	NA	NA	33	COMMERCIAL
															TOTAL		218	

SEE "CUT AND RESTORE" DETAIL ON "MISCELLANEOUS SIDEWALK DETAILS" SHEET.

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS SH 95 FLATONIA CSJ: 0323-03-034

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		31

DATE: 6/4/2024 6:31:55 PM
FILE: G:\YKC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01 Shts\00-GENYKM14 FLATONIA DRIVEWAY SUM 01.dgn

DW: CC: DW: CK:

US 77/UA 90 HALLETTSVILLE DRIVEWAY SUMMARY																			
DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
1	2	575+04	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												RESIDENTIAL
2	2	575+05	LT	OFF EOP	GRAVEL	CONCRETE	34	14	7	3	4	0	0	7	NA	NA	15	RESIDENTIAL
3	2	575+53	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
4	2	575+85	LT	OFF EOP	GRAVEL	CONCRETE	34	14	8	3	4	1	0	8	NA	NA	17	RESIDENTIAL
5	2, 3	576+30	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
6	3	576+81	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
7	3	577+23	LT	OFF EOP	CONCRETE	CONCRETE	32	14	11	3	4	4	0	11	NA	NA	23	RESIDENTIAL
8	3	577+42	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
9	3, 4	578+69	LT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
															TOTAL		55	

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS
UA 77 / UA 90 HALLETTSVILLE
CSJ: 0269-03-040

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		32

CK:
DW:
CC:
DW:

DATE: 6/4/2024 6:31:57 PM
FILE: G:\YKC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01 Shts\00-GENYKM14 HALLETTSVILLE DRIVEWAY SUM 01.dgn

US 77/UA 90 HALLETTSVILLE DRIVEWAY SUMMARY																		
DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
10	4	580+41	LT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
11	5	581+48	LT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
12	5	581+94	LT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
															TOTAL		0	

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS
US 77 / UA 90 HALLETTSVILLE
CSJ: 0370-01-040

SHEET 2 OF 4

CONT	SECT	JOB	HIGHWAY
0026	04	048, etc.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		33

DATE: 6/4/2024 6:31:57 PM
FILE: G:\YKC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01 Shts\00-GENYKM14_HALLETTSVILLE_DRIVEWAY_SUM_01.dgn

CK: DW: CC: DW:

CK:
DW:
CC:
DW:

US 77/UA 90 HALLETTSVILLE DRIVEWAY SUMMARY

DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
13	5	582+90	LT	OFF EOP	ASPHALT	CUT AND RESTORE												COMMERCIAL
14	5, 6	583+72	RT	ADJ BOC	ASPHALT	NO PROPOSED WORK												COMMERCIAL
15	5, 6	583+86	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
16	6	584+37	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
17	6	584+90	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
18	6	585+39	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
19	7	586+39	LT	ADJ BOC	CONCRETE	CONCRETE	52	40	5	0	5	0	1	6	NA	NA	28	COMMERCIAL
20	7	587+65	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
21	7	588+03	LT	OFF EOP	GRAVEL	CONCRETE	32	14	11.25	7.25	4	0	1.75	13	NA	NA	22	RESIDENTIAL
22	8	589+48	LT	ADJ BOC	CONCRETE	CONCRETE	24	20	10.75	6.75	4	0	2.25	13	15	15	19	RESIDENTIAL
23	8	590+21	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
24	9	591+59	RT	ADJ BOC	ASPHALT	NO PROPOSED WORK												RESIDENTIAL
25	9	592+01	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
26	9	592+50	LT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
27	10	594+08	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												RESIDENTIAL
28	10	594+76	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
29	10	595+05	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
30	10	595+37	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
31	11	595+83	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
32	11	596+24	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
33	11	596+52	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
34	11	596+76	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
35	11	597+37	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
36	11, 12	598+03	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
37	12	598+80	LT	OFF EOP	CONCRETE	NO PROPOSED WORK												COMMERCIAL
38	12	598+83	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
39	12	599+51	RT	OFF EOP	ASPHALT	NO PROPOSED WORK												COMMERCIAL
40	14	604+18 R2	LT	ADJ BOC	ASPHALT	CONCRETE	58	46	5.25	0	5	0.25	0.75	6	NA	NA	28	COMMERCIAL
41	14	604+24 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
42	14	604+84 R2	LT	ADJ BOC	ASPHALT	CONCRETE	63	51	5.25	0	5	0.25	0.75	6	NA	NA	31	COMMERCIAL
43	14, 15	604+97 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
44	15	606+12 R2	RT	ADJ BOC	ASPHALT	CONCRETE	28	16	6	0	5	1	1	7	NA	NA	12	COMMERCIAL
45	15	606+53 R2	RT	ADJ BOC	ASPHALT	CONCRETE	22	14	6	0	5	1	0	6	NA	NA	11	COMMERCIAL
46	15	607+12 R2	RT	ADJ BOC	CONCRETE	CONCRETE	55	43	5.75	0	5	0.75	4.25	10	NA	NA	50	COMMERCIAL
47	15, 16	607+72 R2	RT	ADJ BOC	CONCRETE	CONCRETE	43	31	5.75	0	5	0.75	3.25	9	NA	NA	33	COMMERCIAL
47A	16	608+69	LT	OFF BOC	CONCRETE	CONCRETE	17	11	6.00	2	4	0.00	0.00	6	NA	NA	8	COMMERCIAL
48	16	609+15 R2	LT	ADJ BOC	CONCRETE	CONCRETE	38	32	6.75	0	5	1.75	0.25	7	NA	NA	23	COMMERCIAL
49	16	609+40 R2	LT	ADJ BOC	ASPHALT	CONCRETE	23	17	6	0	5	1	0	6	NA	NA	12	COMMERCIAL
50	16	609+80 R2	LT	ADJ BOC	ASPHALT	CONCRETE	34.5	22.5	6	0	5	1	0	6	NA	NA	16	COMMERCIAL
51	16, 17	610+26 R2	RT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
52	17	610+39 R2	LT	ADJ BOC	ASPHALT	CONCRETE	59	47	5	0	5	0	0	5	NA	NA	32	COMMERCIAL
53	17	611+50 R2	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
54	18	612+58 R2	LT	ADJ BOC	CONCRETE	NO PROPOSED WORK												COMMERCIAL
															TOTAL		325	

SEE "CUT AND RESTORE" DETAIL ON "MISCELLANEOUS SIDEWALK DETAILS" SHEET.

DATE: 6/4/2024 6:31:58 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1415832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01 Shts\00-GEN\YKM14 HALLETTSVILLE DRIVEWAY SUM 01.dgn

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS
US 77 / UA 90 HALLETTSVILLE
CSJ: 0269-02-067

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		34

US 77/UA 90 HALLETTSVILLE DRIVEWAY SUMMARY																		
DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
55	18	614+36 R2	RT	ADJ BOC	CONCRETE	CONCRETE	NO PROPOSED WORK											COMMERCIAL
56	18, 19	614+86 R2	RT	ADJ BOC	CONCRETE	CONCRETE	NO PROPOSED WORK											COMMERCIAL
57	20	617+91 R2	RT	ADJ BOC	CONCRETE	CONCRETE	34	22	5.0	0	5	0	0	6.5	NA	NA	15	RESIDENTIAL
58	20	617+92 R2	LT	ADJ BOC	ASPHALT	CONCRETE	25	13	5	0	5	0	0	5	NA	NA	9	RESIDENTIAL
59	21	620+61 R2	LT	ADJ BOC	CONCRETE	CONCRETE	39	27	5	0	5	0	0.00	5.00	NA	NA	20	COMMERCIAL
60	22	623+12 R2	LT	ADJ BOC	CONCRETE	CONCRETE	33	21	6	0	5	1	0	5.5	NA	NA	13	RESIDENTIAL
60A	22	623+42 R2	RT	ADJ BOC	ASPHALT	CONCRETE	13	9	7	0	6	0	0	6.50	NA	NA	6	RESIDENTIAL
61	22	624+24 R2	RT	ADJ BOC	CONCRETE	CONCRETE	28	16	6.5	0	5	1.5	0.5	7	NA	NA	14	RESIDENTIAL
62	23	626+34 R2	RT	ADJ BOC	CONCRETE/ASPHALT	CONCRETE	51	39	6.5	0	5	1.5	0.5	7	NA	NA	32	COMMERCIAL
63	24	627+17 R2	RT	ADJ BOC	CONCRETE/ASPHALT	CONCRETE	51	40	6.5	0	5	1.5	0.5	7	NA	NA	33	COMMERCIAL
64	24	628+72 R2	RT	ADJ BOC	ASPHALT	CONCRETE	107	95	6	0	6	0	0	6	NA	NA	65	COMMERCIAL
64C	25	631+25 R2	LT	ADJ BOC	ASPHALT	CONCRETE	16	12	5	0	5	0	0	5	NA	NA	7	RESIDENTIAL
64D	26	631+94 R2	RT	ADJ BOC	ASPHALT	CONCRETE	55	45	6	0	6	0	0	6	NA	NA	32	RESIDENTIAL
64E	26	632+02 R2	LT	ADJ BOC	ASPHALT	CONCRETE	14	10	5	0	5	0	0	5	NA	NA	5	RESIDENTIAL
65	26	633+90 R2	RT	ADJ BOC	CONCRETE	CONCRETE	27	14	7	0	5	2	1.5	8.5	NA	NA	15	COMMERCIAL
65A	27	634+64 R2	RT	ADJ BOC	GRAVEL	CONCRETE	40	28	7	0	6	1	0	7	NA	NA	28	RESIDENTIAL
65B	28	636+78 R2	RT	ADJ BOC	GRAVEL	CONCRETE	21	13	7	0	6	1	0	7	NA	NA	10	RESIDENTIAL
65C	28	637+48 R2	RT	ADJ BOC	GRAVEL	CONCRETE	16	8	7	0	6	1	0	7	NA	NA	7	RESIDENTIAL
65D	28	638+23 R2	RT	ADJ BOC	GRAVEL	CONCRETE	16	8	7	0	6	1	0	7	NA	NA	7	RESIDENTIAL
66	27	634+95 R2	LT	ADJ BOC	ASPHALT	CONCRETE	NO PROPOSED WORK											COMMERCIAL
67	27	635+38 R2	LT	ADJ BOC	ASPHALT	CONCRETE	NO PROPOSED WORK											COMMERCIAL
68	28	636+97 R2	LT	ADJ BOC	CONCRETE	CONCRETE	NO PROPOSED WORK											COMMERCIAL
69	29	639+92 R2	LT	ADJ BOC	CONCRETE	CONCRETE	NO PROPOSED WORK											RESIDENTIAL
70	29	640+47 R2	LT	ADJ BOC	CONCRETE	CONCRETE	NO PROPOSED WORK											RESIDENTIAL
71	29	639+30 R2	RT	ADJ BOC	CONCRETE	CONCRETE	NO PROPOSED WORK											COMMERCIAL
															TOTAL		318	

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YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS UA 90 HALLETTSVILLE CSJ: 0446-01-054

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		35

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DATE: 6/4/2024 6:31:59 PM
FILE: G:\YKC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01 Shts\00-GENYKM14_YOAKUM_DRIVEWAY_SUM_01.dgn

US 77A YOAKUM-LAVACA DRIVEWAY SUMMARY

DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
1	2	847+91	LT	ADJ BOC	ASPHALT	CONCRETE	42.5	30.5	6	0	6	0	0	6	NA	NA	22	RESIDENTIAL
2	3	848+79	LT	ADJ BOC	ASPHALT	CONCRETE	25	13	6	0	6	0	0	6	NA	NA	10	RESIDENTIAL
3	3	850+60	LT	ADJ BOC	ASPHALT	CONCRETE	27	15	6	0	6	0	0	6	NA	NA	12	RESIDENTIAL
4	4	851+03	LT	ADJ BOC	ASPHALT	CONCRETE	26	14	8	0	6	2	1	9	NA	NA	17	RESIDENTIAL
5	4	852+23	LT	ADJ BOC	ASPHALT	CONCRETE	25	12	10.25	0	6	4.25	0	10.25	NA	NA	16	RESIDENTIAL
6	5	853+84	LT	ADJ BOC	ASPHALT	CONCRETE	35	25.5	14.25	0	6	8.25	0	14.25	NA	NA	38	RESIDENTIAL
7	5	855+07	LT	ADJ BOC	ASPHALT	CONCRETE	33	21	6	0	6	0	0	6	NA	NA	16	RESIDENTIAL
8	7	858+75	RT	ADJ BOC	ASPHALT	CONCRETE	52.5	40.5	10	0	5	5	0	10	NA	NA	46	RESIDENTIAL
9	7	859+61	RT	ADJ BOC	ASPHALT	CONCRETE	39	27	10	0	5	5	0	10	NA	NA	32	RESIDENTIAL
10	7	859+72	LT	ADJ BOC	CONCRETE	CONCRETE	64	37	9.5	0	6	3.5	0	9.5	NA	NA	50	COMMERCIAL
11	7	860+14	RT	ADJ BOC	ASPHALT	CONCRETE	39	27	15	0	5	10	0	15	NA	NA	47	COMMERCIAL
12	8	860+65	LT	ADJ BOC	ASPHALT	CONCRETE	59	47	6	0	6	0	0	6	NA	NA	33	RESIDENTIAL
13	8	861+10	RT	ADJ BOC	ASPHALT	CONCRETE	35	23	15	0	5	10	0	15	NA	NA	39	COMMERCIAL
14	8	861+66	LT	ADJ BOC	ASPHALT	CONCRETE	52.5	40.5	8	0	6	2	0	8	NA	NA	38	COMMERCIAL
15	8	861+87	RT	ADJ BOC	ASPHALT	CONCRETE	33	21	20	0	5	15	0	20	NA	NA	48	COMMERCIAL
16	8	862+51	LT	ADJ BOC	ASPHALT	CONCRETE	51	39	8	0	6	2	0	8	NA	NA	37	COMMERCIAL
17	9	862+86	RT	ADJ BOC	ASPHALT	CONCRETE	34	22	19	0	5	14	0	19	NA	NA	48	COMMERCIAL
18	10	865+42	RT	ADJ BOC	ASPHALT	CONCRETE	49	41	20	0	6	15	0	20	NA	NA	87	COMMERCIAL
19	10	866+12	RT	ADJ BOC	ASPHALT	CONCRETE	49.5	40.0	20	0	6	15	0	20	NA	NA	87	COMMERCIAL
20	10	866+96	RT	ADJ BOC	ASPHALT	CONCRETE	43	35	20	0	6	14	0	20	NA	NA	82	COMMERCIAL
															TOTAL		805	

SEE "CUT AND RESTORE" DETAIL ON "MISCELLANEOUS SIDEWALK DETAILS" SHEET.

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YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS US 77A YOAKUM CSJ: 0269-04-041

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		36

CK
DW
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DATE: 6/4/2024 6:31:59 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01 Shts\00-GENYKM14 YOAKUM DRIVEWAY SUM 01.dgn

US 77A YOAKUM-DEWITT DRIVEWAY SUMMARY

DRIVEWAY NUMBER	SIDEWALK LAYOUT SHEET NUMBER	CENTERLINE STATION	LT/RT	DRIVEWAY TYPE	EXISTING SURFACE	PROPOSED SURFACE	WIDTH		LENGTH						RADIUS		AREA	DRIVEWAY CLASS
							W1	W2	L1	LS	LW	LD	L2	L3	R1	R2	SY	
							FT	FT	FT	FT	FT	FT	FT	FT	FT	FT		
21	11	869+30	RT	ADJ BOC	ASPHALT	CONCRETE	49.5	37.5	6	0	6	0	0	6	NA	NA	27	COMMERCIAL
22	12	870+50	LT	ADJ BOC	CONCRETE	CONCRETE	62	36	14	0	6	8	0	14	NA	NA	70	COMMERCIAL
23	12	872+19	LT	ADJ BOC	GRAVEL	CONCRETE	29.5	17.5	6	0	6	0	0	6	NA	NA	13	RESIDENTIAL
23A	13	872+77	LT	ADJ BOC	ASPHALT	CONCRETE	25	13	6	0	6	0	0	6	NA	NA	11	COMMERCIAL
24	13	873+58	LT	ADJ BOC	ASPHALT	CONCRETE	49	40	6	0	6	0	0	6	NA	NA	28	COMMERCIAL
25	14	875+23	LT	ADJ BOC	ASPHALT	CONCRETE	30	18	6	0	6	0	0	6	NA	NA	14	RESIDENTIAL
26	14	876+19	LT	ADJ BOC	ASPHALT	CONCRETE	42	30	6	0	6	0	0	6	NA	NA	22	RESIDENTIAL
27	15	878+29	RT	ADJ BOC	ASPHALT	CONCRETE	48.0	27.5	6	0	6	0	0	6	NA	NA	24	COMMERCIAL
28	16	879+57	LT	ADJ BOC	ASPHALT	CONCRETE	26	14	6	0	6	0	0	6	NA	NA	11	RESIDENTIAL
29	16	879+77	RT	ADJ BOC	ASPHALT	CONCRETE	42.5	30.5	6	0	6	0	0	6	NA	NA	22	COMMERCIAL
30	16	880+21	RT	ADJ BOC	ASPHALT	CONCRETE	41	29	6	0	6	0	0	6	NA	NA	21	COMMERCIAL
31	16	880+63	RT	ADJ BOC	ASPHALT	CONCRETE	37.5	25.5	6	0	6	0	0	6	NA	NA	19	COMMERCIAL
32	16	881+21	LT	ADJ BOC	ASPHALT	CONCRETE	42	30	6	0	6	0	0	6	NA	NA	22	COMMERCIAL
33	16	881+21	RT	ADJ BOC	ASPHALT	CONCRETE	50	38	6	0	6	0	0	6	NA	NA	27	COMMERCIAL
34	16	881+76	LT	ADJ BOC	ASPHALT	CONCRETE	42	30	6	0	6	0	0	6	NA	NA	22	COMMERCIAL
35	16	881+85	RT	ADJ BOC	ASPHALT	CONCRETE	42	30	6	0	6	0	0	6	NA	NA	22	COMMERCIAL
36	17	882+67	LT	ADJ BOC	ASPHALT	CONCRETE	39	27	6	0	6	0	0	6	NA	NA	20	COMMERCIAL
37	17	883+83	RT	ADJ BOC	ASPHALT	CONCRETE	58	41	6	0	6	0	0	6	NA	NA	31	COMMERCIAL
38	18	884+74	RT	ADJ BOC	CONCRETE	CONCRETE	57.5	45.5	6	0	6	0	0	6	NA	NA	32	COMMERCIAL
39	18	885+54	RT	ADJ BOC	CONCRETE	CONCRETE	57	45	8	0	6	2	0	8	NA	NA	42	COMMERCIAL
40	18	886+25	LT	OFF EOP	ASPHALT		NO PROPOSED WORK											COMMERCIAL
41	18	886+48	RT	ADJ BOC	ASPHALT	CONCRETE	48.5	36.5	6	0	6	0	0	6	NA	NA	26	COMMERCIAL
42	19	887+10	LT	OFF EOP	ASPHALT		NO PROPOSED WORK											COMMERCIAL
															TOTAL		526	

SEE "CUT AND RESTORE" DETAIL ON "MISCELLANEOUS SIDEWALK DETAILS" SHEET.

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF DRIVEWAYS US 77A YOAKUM CSJ: 0269-05-037

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		37

SUMMARY OF EROSION CONTROL ITEMS				
LOCATION	ITEM 506			
	TEMP SEDMT CONT FENCE		BIODEG EROSN CONT LOGS	
	INSTALL (LF)	REMOVE (LF)	INSTALL 8" (LF)	REMOVE (LF)
BEGIN TO END AS APPROVED OR DIRECTED				
US 90 - CSJ: 0026-04-048 TOTALS	200	200	100	100
BEGIN TO END AS APPROVED OR DIRECTED				
US 87 - CSJ: 0143-09-071 TOTALS	200	200	100	100
BEGIN TO END AS APPROVED OR DIRECTED				
US 183 - CSJ: 0269-06-060 TOTALS	200	200	100	100
BEGIN TO END AS APPROVED OR DIRECTED				
SH 95 - CSJ: 0323-03-034 TOTALS	200	200	100	100
BEGIN TO END AS APPROVED OR DIRECTED				
UA 77 / UA 90 - CSJ: 0269-03-040 TOTALS	25	25	20	20
BEGIN TO END AS APPROVED OR DIRECTED				
US 77 / UA 90 - CSJ: 0370-01-040 TOTALS	25	25	20	20
BEGIN TO END AS APPROVED OR DIRECTED				
US 77 / UA 90 - CSJ: 0269-02-067 TOTALS	75	75	30	30
BEGIN TO END AS APPROVED OR DIRECTED				
UA 90 - CSJ: 0446-01-054 TOTALS	75	75	30	30
BEGIN TO END AS APPROVED OR DIRECTED				
US 77A - CSJ: 0269-04-041 TOTALS	100	100	50	50
BEGIN TO END AS APPROVED OR DIRECTED				
US 77A - CSJ: 0269-05-037 TOTALS	100	100	50	50
PROJECT TOTALS	**1200**	**1200**	**600**	**600**

SW3P NOTES:
1. INSTALL BMP'S TO CORRESPOND WITH SEQUENCE OF CONSTRUCTION. ADDITIONAL BMP'S MAY BE ADDED TO CORRESPOND WITH CONSTRUCTION ACTIVITIES AS APPROVED OR AS DIRECTED BY THE ENGINEER.

2. ACTUAL BMP LOCATIONS AND LENGTHS MAY VARY TO MEET FIELD CONDITIONS, AS APPROVED OR AS DIRECTED BY THE ENGINEER.

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SUMMARY OF ENVIRONMENTAL ITEMS

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		38

DW: CK: DW: CK:

DATE: 6/10/2024 12:03:22 PM
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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

1. 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

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS

BC(1)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS 4-03 7-13 9-07 8-14 5-10 5-21	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		39

DATE: 6/4/2024 6:32:38 PM
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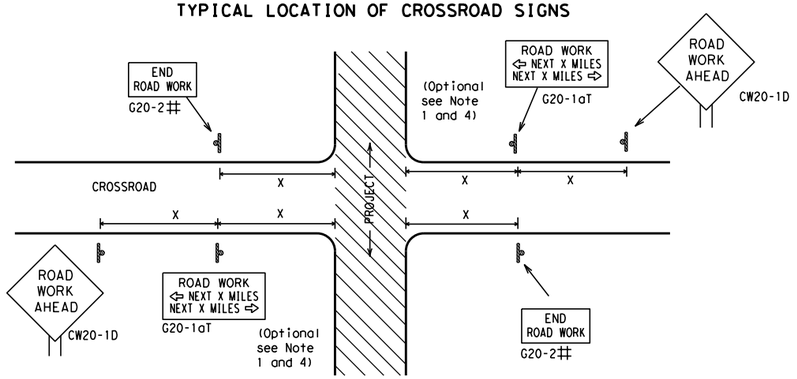
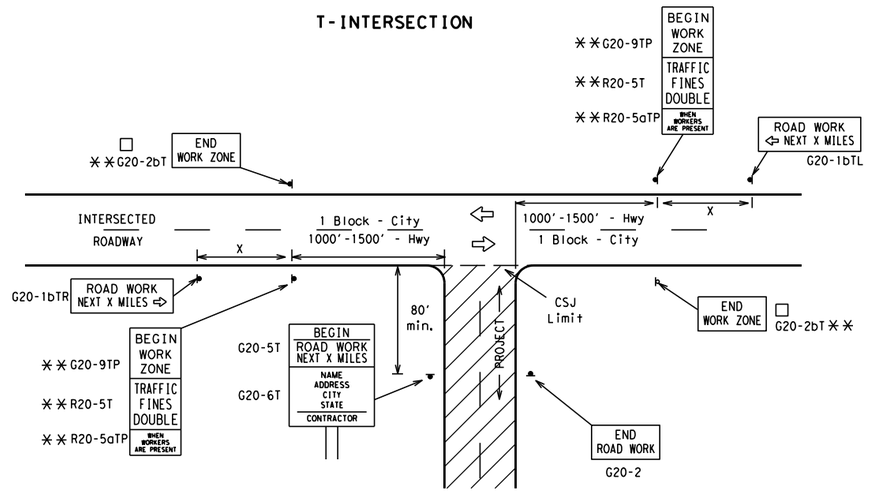
TYPICAL LOCATION OF CROSSROAD SIGNS



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

1. 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.
3. 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.
4. 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.
6. 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.

T-INTERSECTION



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

Sign Number or Series	Conventional Road	Expressway/ Freeway
CW20[4], CW21, CW22, CW23, CW25	48" x 48"	48" x 48"
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"
CW3, CW4, CW5, CW6, CW8-3, CW10, CW12	48" x 48"	48" x 48"

SPACING

Posted Speed	Sign △ Spacing "X"
MPH	Feet (Apprx.)
30	120
35	160
40	240
45	320
50	400
55	500[2]
60	600[2]
65	700[2]
70	800[2]
75	900[2]
80	1000[2]
*	*[3]

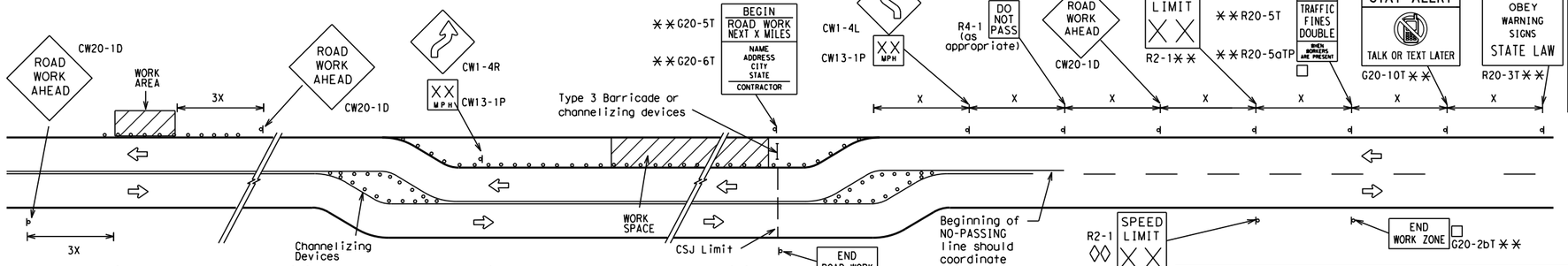
* For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

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

GENERAL NOTES

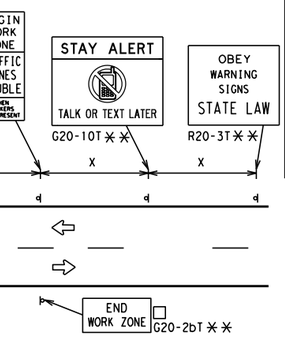
1. Special or larger size signs may be used as necessary.
2. Distance between signs should be increased as required to have 1500 feet advance warning.
3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D)signs may 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.
6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

WORK AREAS IN MULTIPLE LOCATIONS WITHIN CSJ LIMITS

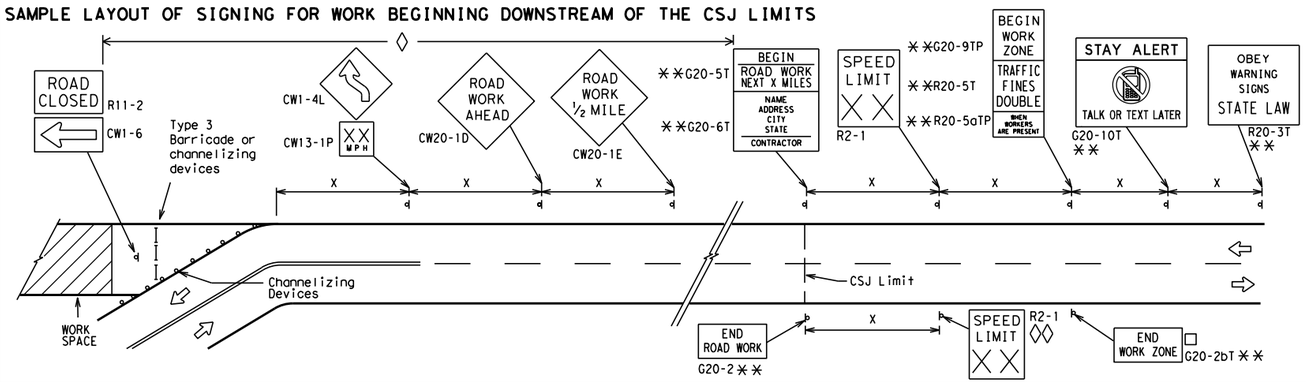


When extended distances occur between minimal work spaces, the Engineer/Inspector should ensure additional "ROAD WORK AHEAD"(CW20-1D)signs are placed in advance of these work areas to remind drivers they are still within the project limits. See the applicable TCP sheets for exact location and spacing of signs and channelizing devices.

SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT THE CSJ LIMITS



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



NOTES

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" (G20-2bT) 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 Control Plan.

◊◊ Contractor will install a regulatory speed limit sign at the end of the work zone.

LEGEND

⊢⊣	Type 3 Barricade
○ ○ ○	Channelizing Devices
▬	Sign
X	See Typical Construction Warning Sign Size and Spacing chart or the TMUTCD for sign spacing requirements.

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	YKM	COLORADO, ETC.		40

DATE: 6/4/2024 6:32:38 PM
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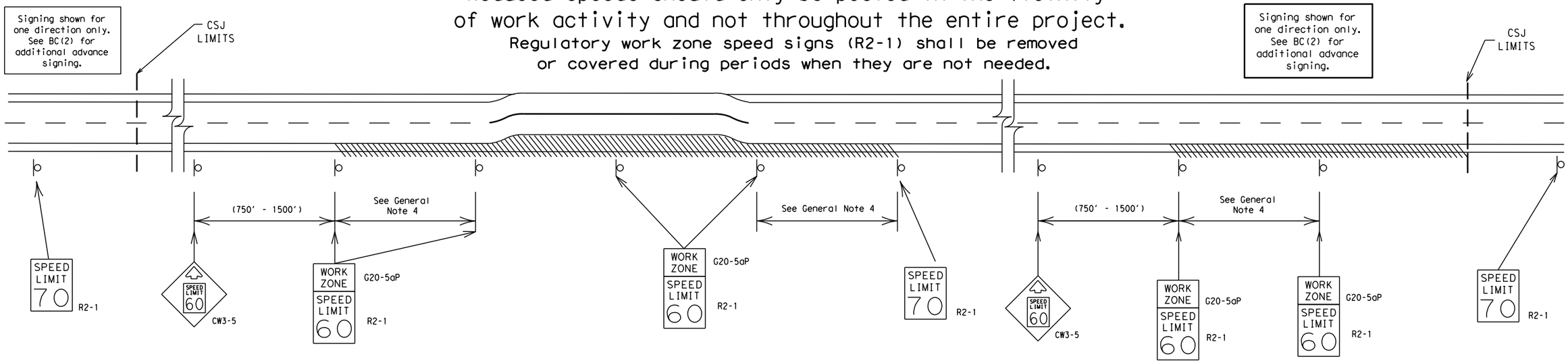
TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

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.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project.

Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



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

1. Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
2. 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)).
6. 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.
9. 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.

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	YKM	COLORADO, ETC.		41

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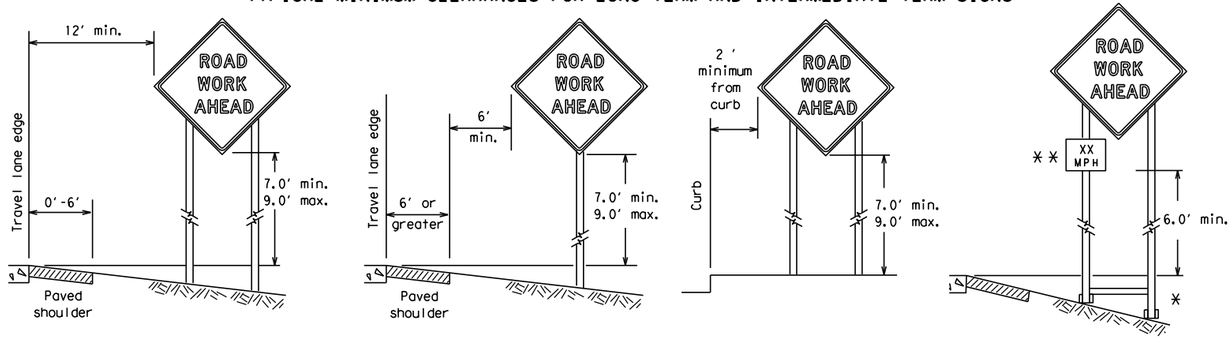
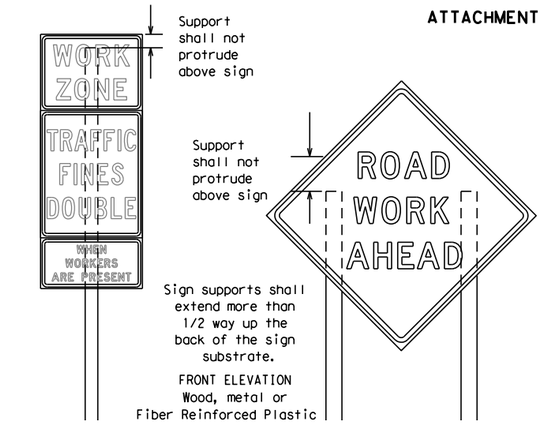
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS

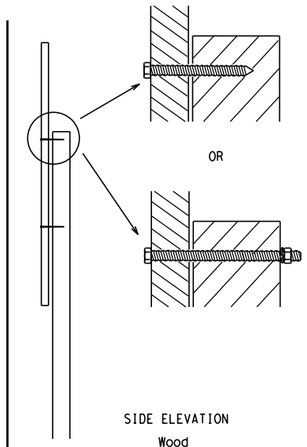


* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

** 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.

ATTACHMENT FOR SIGN SUPPORTS





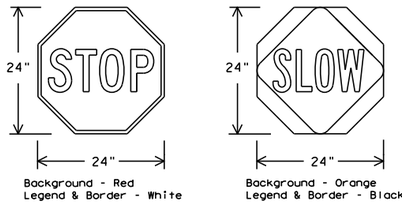
Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

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.

Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two 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.

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".
2. STOP/SLOW paddles shall be retroreflectorized when used at night.
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 REQUIREMENTS (WHEN USED AT NIGHT)		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	ORANGE	TYPE B_{FL} OR C_{FL} 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

1. 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.
2. 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.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. 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.
5. 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 CWZTCD 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.
6. 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

1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. 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.
5. 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.
6. 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 regarding 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.
7. 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.
8. 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.
9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)

1. 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.
   b. 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.
   c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
   d. Short, duration - work that occupies a location up to 1 hour.
   e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

1. 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 plaques mounted below other signs.
2. 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.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. 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.
5. 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

1. 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

1. 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.
2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
3. 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).
2. 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

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. 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.
3. 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.
4. 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.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. 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.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. 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.
7. 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.
8. 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.

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

BC(4)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
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9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	YKM	COLORADO, ETC.		42

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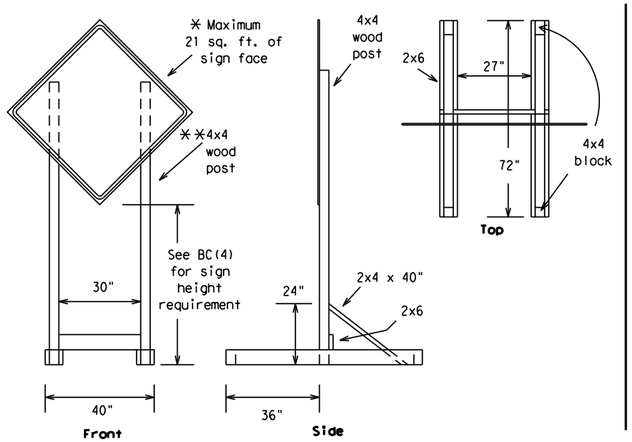
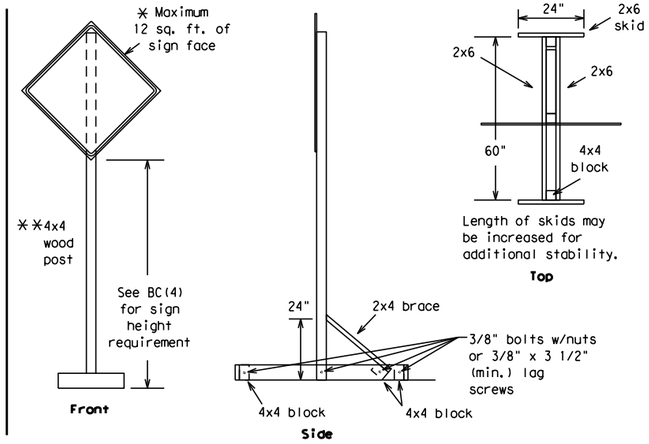
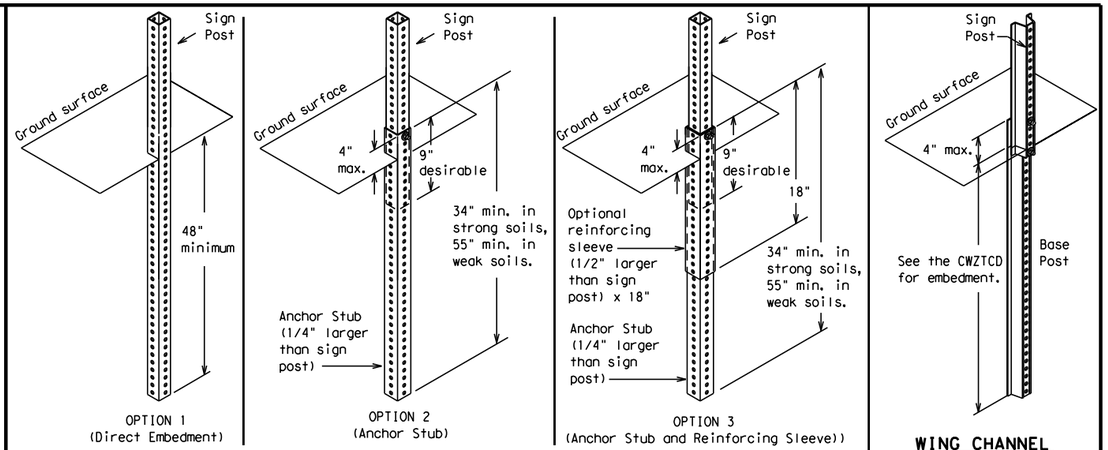




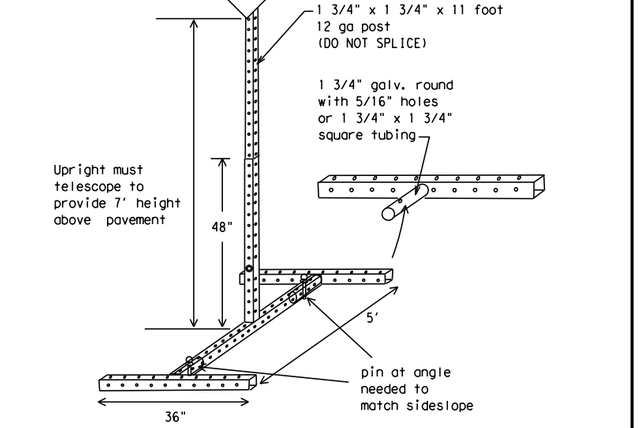
SKID MOUNTED WOOD SIGN SUPPORTS

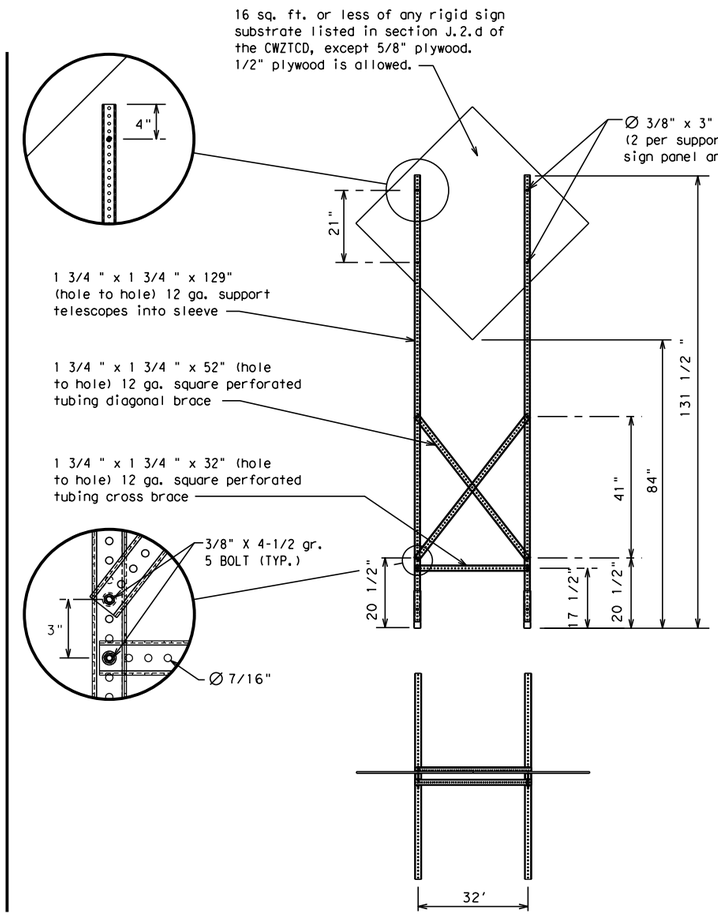
* LONG/INTERMEDIATE TERM STATIONARY - PORTABLE SKID MOUNTED SIGN SUPPORTS

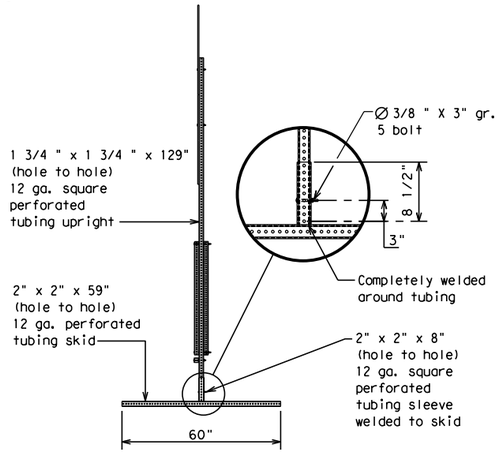


GROUND MOUNTED SIGN SUPPORTS

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.







SKID MOUNTED PERFORATED SQUARE STEEL TUBING SIGN SUPPORTS

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

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

1. 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 connection.
2. No more than 2 sign posts shall be placed within a 7 ft. circle, except for specific materials noted on the CWZTCD List.
3. 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.

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BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
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9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	YKM	COLORADO, ETC.		43

DATE: 6/4/2024 6:32:39 PM
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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.
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 itself.
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.
6. 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.

WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD
Alternate	ALT
Avenue	AVE
Best Route	BEST RTE
Boulevard	BLVD
Bridge	BRDG
Cannot	CANT
Center	CTR
Construction Ahead	CONST AHD
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
Friday	FRI
Hazardous Driving	HAZ DRIVING
Hazardous Material	HAZMAT
High-Occupancy	HOV
Vehicle Highway	HWY
Hour(s)	HR, HRS
Information	INFO
It Is	ITS
Junction	JCT
Left	LFT
Left Lane	LFT LN
Lane Closed	LN CLOSED
Lower Level	LWR LEVEL
Maintenance	MAINT

WORD OR PHRASE	ABBREVIATION
Major	MAJ
Miles	MI
Miles Per Hour	MPH
Minor	MNR
Monday	MON
Normal	NORM
North	N
Northbound	(route) N
Parking	PKING
Road	RD
Right Lane	RT LN
Saturday	SAT
Service Road	SERV RD
Shoulder	SHLDR
Slippery	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	TRVLRS
Tuesday	TUES
Time Minutes	TIME MIN
Upper Level	UPR LEVEL
Vehicles (s)	VEH, VEHS
Warning	WARN
Wednesday	WED
Weight Limit	WT LIMIT
West	W
Westbound	(route) W
Wet Pavement	WET PVMT
Will Not	WONT

Roadway 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

Road/Lane/Ramp Closure List

- FREEWAY CLOSED X MILE
- FRONTAGE ROAD CLOSED
- ROAD CLOSED AT SH XXX
- SHOULDER CLOSED XXX FT
- ROAD CLSD AT FM XXXX
- RIGHT LN CLOSED XXX FT
- RIGHT X LANES CLOSED
- RIGHT X LANES OPEN
- CENTER LANE CLOSED
- DAYTIME LANE CLOSURES
- NIGHT LANE CLOSURES
- I-XX SOUTH EXIT CLOSED
- VARIOUS LANES CLOSED
- EXIT XXX CLOSED X MILE
- EXIT CLOSED
- RIGHT LN TO BE CLOSED
- MALL DRIVEWAY CLOSED
- X LANES CLOSED TUE - FRI
- XXXXXXXX BLVD CLOSED

Other Condition List

- ROADWORK XXX FT
- ROAD REPAIRS XXXX FT
- FLAGGER XXXX FT
- LANE NARROWS XXXX FT
- RIGHT LN NARROWS XXXX FT
- TWO-WAY TRAFFIC XX MILE
- MERGING TRAFFIC XXXX FT
- CONST TRAFFIC XXX FT
- LOOSE GRAVEL XXXX FT
- UNEVEN LANES XXXX FT
- DETOUR X MILE
- ROUGH ROAD XXXX FT
- ROADWORK PAST SH XXXX
- ROADWORK NEXT FRI-SUN
- BUMP XXXX FT
- US XXX EXIT X MILES
- TRAFFIC SIGNAL XXXX FT
- LANES SHIFT *
- STAY IN LANE *

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

Phase 2: Possible Component Lists

Action to Take/Effect on Travel List

- MERGE RIGHT
- FORM X LINES RIGHT
- DETOUR NEXT X EXITS
- USE XXXXX RD EXIT
- USE EXIT XXX
- USE EXIT I-XX NORTH
- STAY ON US XXX SOUTH
- USE I-XX E TO I-XX N
- TRUCKS USE US XXX N
- WATCH FOR TRUCKS
- WATCH FOR TRUCKS
- EXPECT DELAYS
- EXPECT DELAYS
- PREPARE TO STOP
- REDUCE SPEED XXX FT
- END SHOULDER USE
- USE OTHER ROUTES
- WATCH FOR WORKERS

Location List

- AT FM XXXX
- BEFORE RAILROAD CROSSING
- NEXT X MILES
- PAST US XXX EXIT
- XXXXXXX TO XXXXXXX
- US XXX TO FM XXXX

Warning List

- SPEED LIMIT XX MPH
- MAXIMUM SPEED XX MPH
- MINIMUM SPEED XX MPH
- ADVISORY SPEED XX MPH
- RIGHT LANE EXIT
- USE CAUTION
- DRIVE SAFELY
- DRIVE WITH CARE

** Advance Notice List

- TUE-FRI XX AM- X PM
- APR XX-XX X PM-X AM
- BEGINS MONDAY
- BEGINS MAY XX
- MAY X-X XX PM - XX AM
- NEXT FRI-SUN
- XX AM TO XX PM
- NEXT TUE 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 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.
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 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

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.
3. 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.

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
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9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	YKM	COLORADO, ETC.		44

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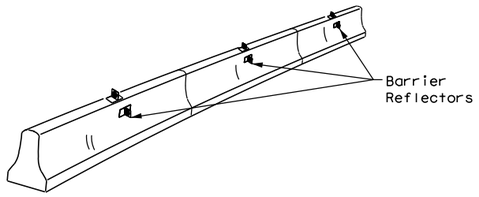
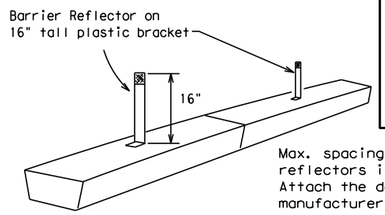
1. Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
2. Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost of the reflectors shall be considered subsidiary to Item 512.



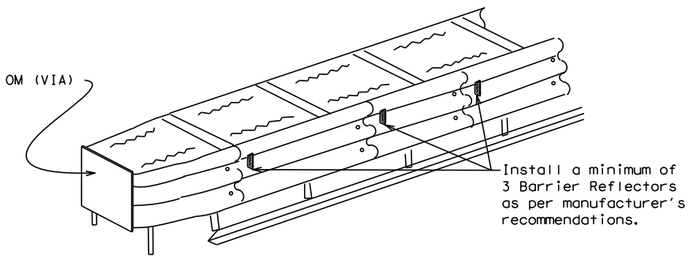
CONCRETE TRAFFIC BARRIER (CTB)

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 recommendations.
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

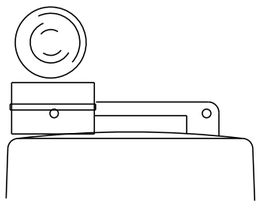
LOW PROFILE CONCRETE BARRIER (LPCB) USED IN WORK ZONES

LPCB is approved for use in work zone locations, where the posted speed is 45mph, or less. See Roadway Standard Sheet LPCB.

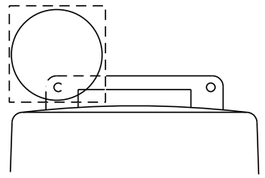
END TREATMENTS FOR CTB'S USED IN WORK ZONES

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



Type C Warning Light or approved substitute mounted on a drum adjacent to the travel way.



Warning reflector may be round or square.Must have a yellow reflective surface area of at least 30 square inches

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

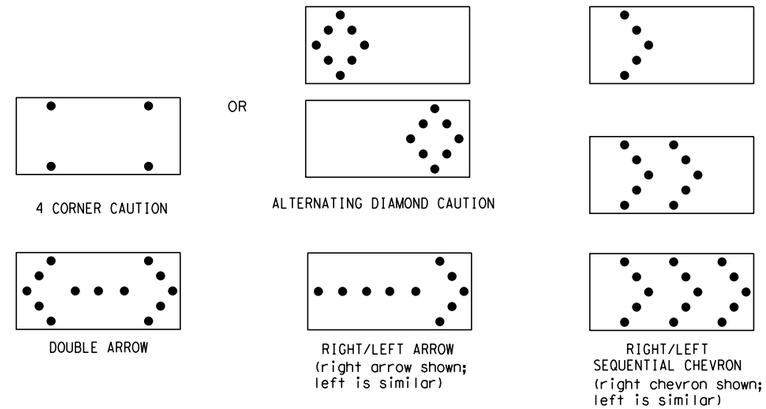
1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
3. A series of sequential flashing warning lights placed on channelizing 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 on the CWZTCD.
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.
3. 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.
6. The straight line caution display is NOT ALLOWED.
7. 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.
8. 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.
11. The Flashing Arrow Board shall be mounted on a vehicle, trailer or other suitable support.
12. A Flashing Arrow Board SHALL NOT BE USED to laterally shift traffic.
13. 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 SIZE	MINIMUM NUMBER OF PANEL LAMPS	MINIMUM VISIBILITY DISTANCE
B	30 x 60	13	3/4 mile
C	48 x 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

TRUCK-MOUNTED ATTENUATORS

1. Truck-mounted attenuators (TMA) used on TxDOT facilities must meet the requirements outlined in the Manual for Assessing Safety Hardware (MASH).
2. 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.
6. 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.

Texas Department of Transportation

Traffic Safety Division Standard

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

BC(7)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90,ETC.
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	YKM	COLORADO, ETC.		45

DATE: 6/4/2024 6:32:40 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5832-14 YKM_Sidewalks_Hallettsville_Cuero_etc\03_CADD\01_Shts\02-TCP\Stds\TXDOT\bc-21.dgn

GENERAL NOTES

1. 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" (CWZTCD).
5. 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.
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-qualified plastic drums shall meet the following requirements:

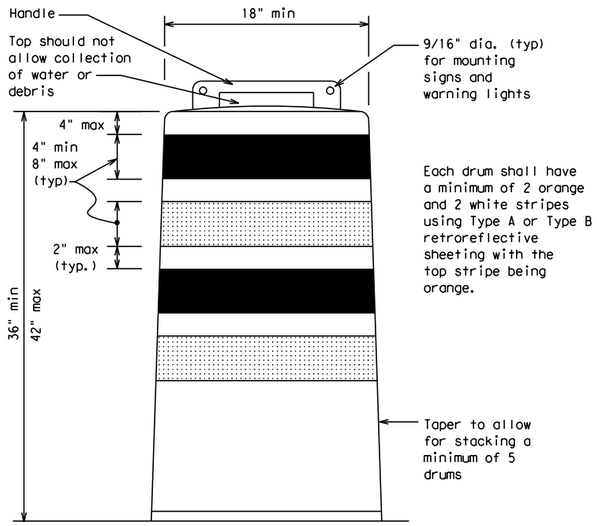
1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents accidental separation due to normal handling and/or air turbulence created by passing vehicles.
3. 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.

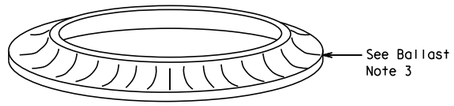
RETROREFLECTIVE SHEETING

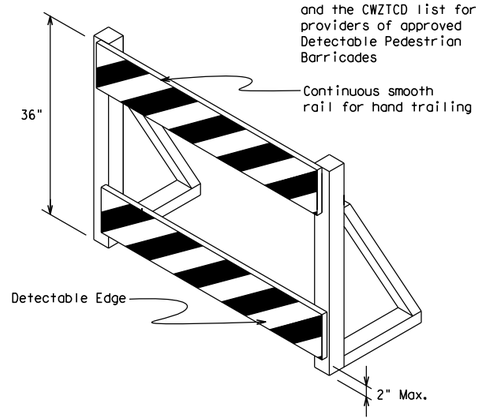
1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials," Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
2. The sheeting shall 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 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.
2. 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.
3. Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
4. 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.
5. 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.

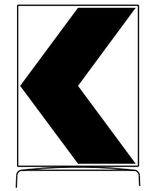




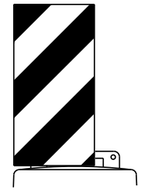


DETECTABLE PEDESTRIAN BARRICADES

1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC 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.
2. 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.
3. 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.
5. Warning lights shall not be attached to detectable pedestrian barricades.
6. 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



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

1. 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.
3. 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.
5. 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 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) should be used at each location called for in the plans.
8. 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.

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(8)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
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4-03 8-14	DIST	COUNTY		SHEET NO.
9-07 5-21	YKM	COLORADO, ETC.		46
7-13				

DATE: 6/4/2024 6:32:40 PM
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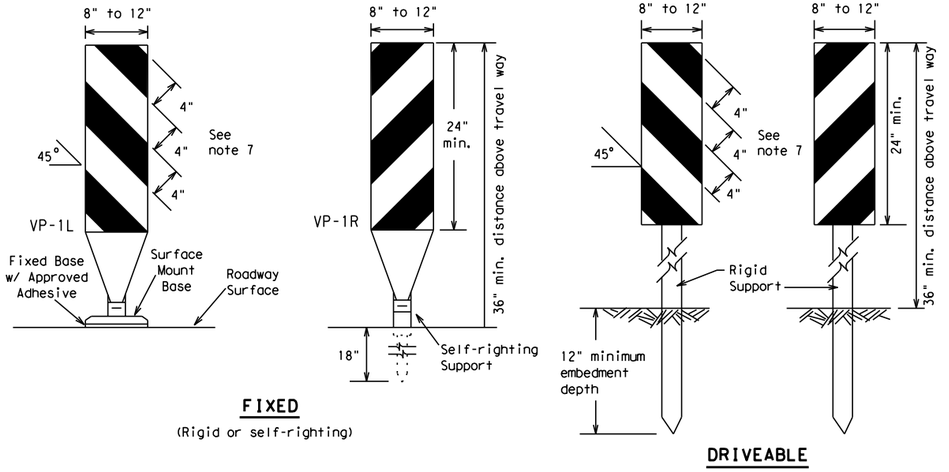
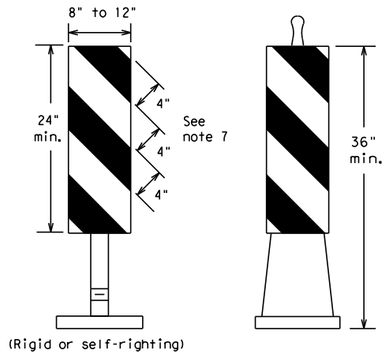


FIXED
(Rigid or self-righting)

DRIVEABLE

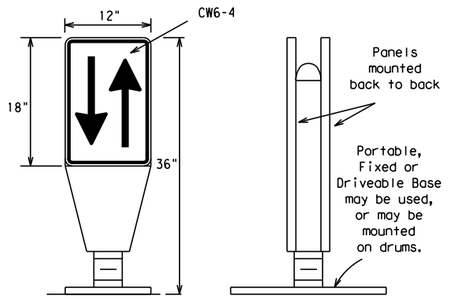


(Rigid or self-righting)

PORTABLE

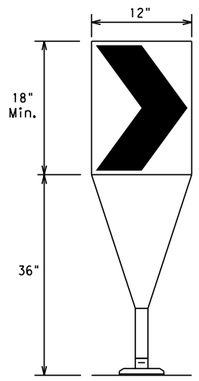
VERTICAL PANELS (VPs)

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.
4. VP's used on expressways and freeways or other high speed roadways, may have more than 270 square inches of retroreflective area facing traffic.
5. Self-righting supports are available with portable base. See "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
6. Sheeting for the VP's shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300, unless noted otherwise.
7. Where the height of reflective material on the vertical panel is 36 inches or greater, a panel stripe of 6 inches shall be used.



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 pavement 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" cones or VPs.
3. 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_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



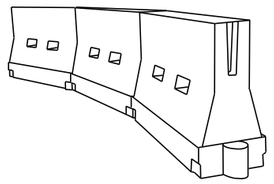
Fixed Base w/ Approved Adhesive (Driveable Base, or Flexible Support can be used)

1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
2. 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_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
6. 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

1. 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).
2. 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.
5. 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)

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.
3. 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

1. 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.
2. 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.
5. 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 Speed	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent
30	$L = \frac{WS^2}{60}$	150′	165′	180′	30′	60′
35		205′	225′	245′	35′	70′
40		265′	295′	320′	40′	80′
45	L = WS	450′	495′	540′	45′	90′
50		500′	550′	600′	50′	100′
55		550′	605′	660′	55′	110′
60		600′	660′	720′	60′	120′
65		650′	715′	780′	65′	130′
70		700′	770′	840′	70′	140′
75		750′	825′	900′	75′	150′
80		800′	880′	960′	80′	160′

** 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

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(9)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	YKM	COLORADO, ETC.		47

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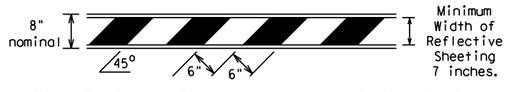
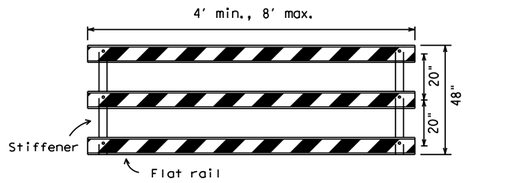
TYPE 3 BARRICADES

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.
4. 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.
5. 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.
7. 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.
9. Sheeting for barricades shall be retroreflective Type A or Type B conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

Barricades shall NOT be used as a sign support.



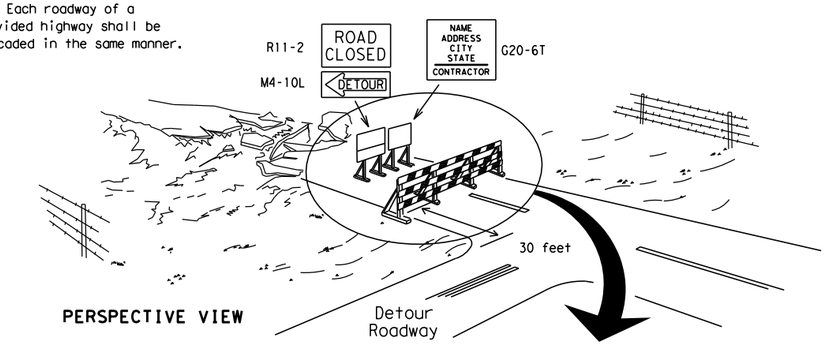
TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



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

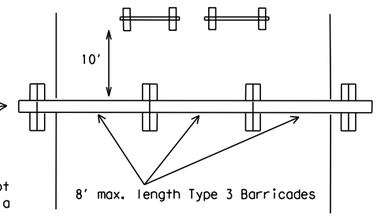
TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

Each roadway of a divided highway shall be barricaded in the same manner.



PERSPECTIVE VIEW

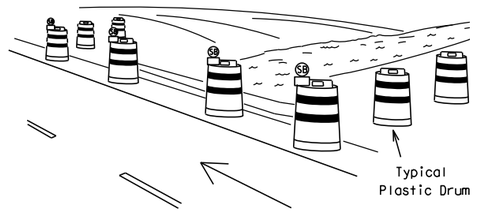
The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic.
Barricade striping should slant downward in the direction of detour.



PLAN VIEW

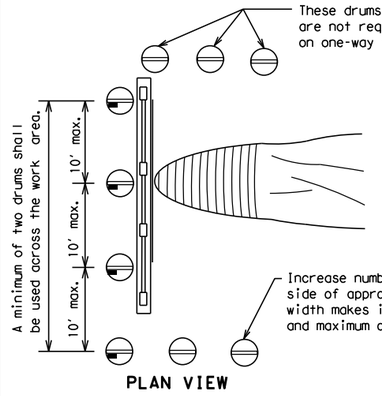
1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



PERSPECTIVE VIEW

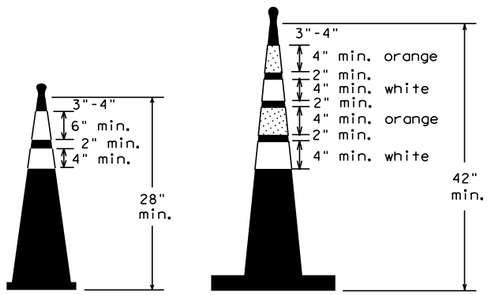
1. Where positive redirectional capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.



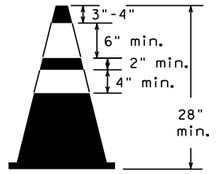
PLAN VIEW

LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
SB	Steady burn warning light or yellow warning reflector

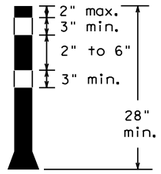
CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS



Two-Piece cones



One-Piece cones

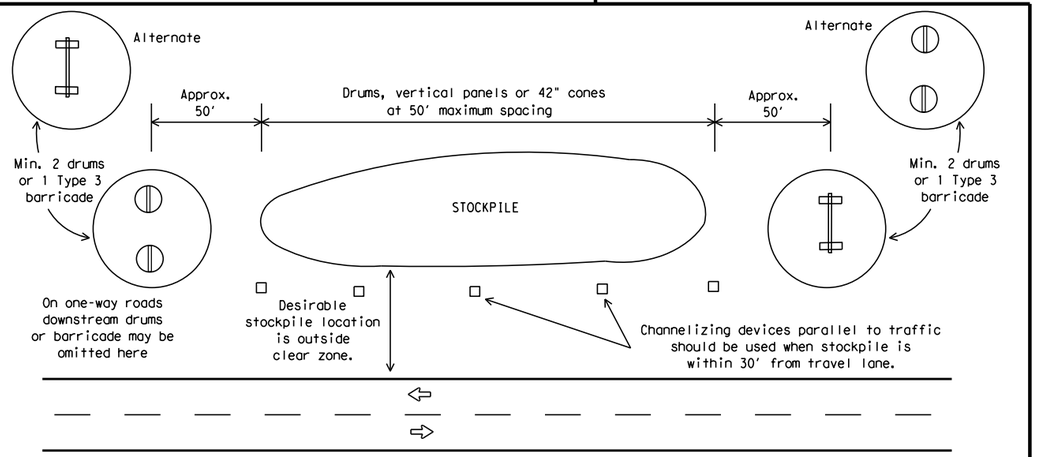


Tubular Marker

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 CONTROL FOR MATERIAL STOCKPILES

Texas Department of Transportation — Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	0026	04	048, ETC.	US 90, ETC.
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WORK ZONE PAVEMENT MARKINGS

GENERAL

1. 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.
2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
3. Additional supplemental pavement marking details may be found in the plans or specifications.
4. Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
5. 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.
7. All work zone pavement markings shall be installed in accordance with Item 662, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

1. Raised pavement markers are to be placed according to the patterns on BC(12).
2. 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

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

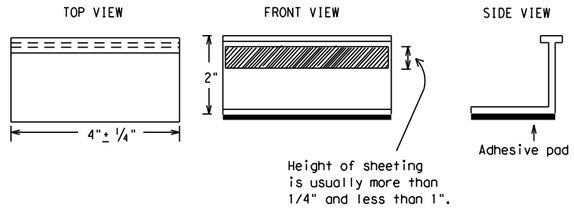
MAINTAINING WORK ZONE PAVEMENT MARKINGS

1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
2. 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 Item 662.

REMOVAL OF PAVEMENT MARKINGS

1. 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.
2. 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.
3. 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".
4. The removal of pavement markings may require resurfacing or seal coating portions of the roadway as described in Item 677.
5. Subject to the approval of the Engineer, any method that proves to be successful on a particular type pavement may be used.
6. 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.
8. Removal of raised pavement markers shall be as directed by the Engineer.
9. 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

1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DMS-8242.
2. 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

1. Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DMS-4200.
2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
3. 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 SPECIFICATIONS	
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 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).

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC(11)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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	YKM	COLORADO, ETC.		49

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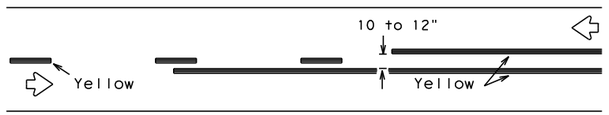
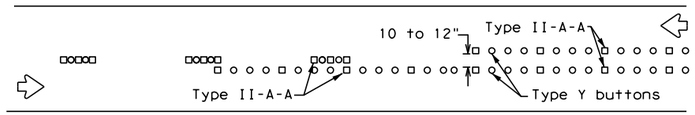
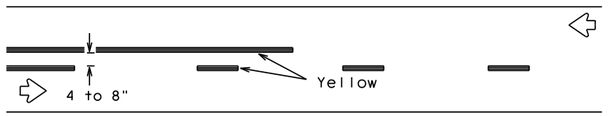
PAVEMENT MARKING PATTERNS



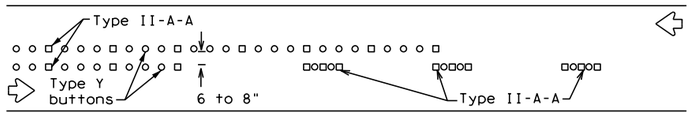
REFLECTORIZED PAVEMENT MARKINGS - PATTERN A



RAISED PAVEMENT MARKERS - PATTERN A



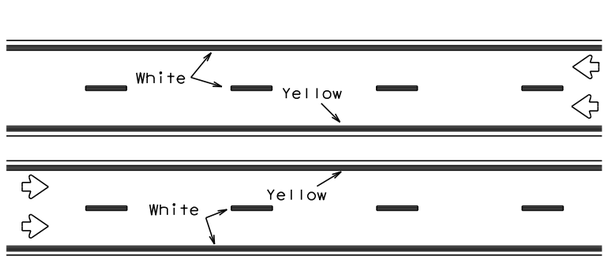
REFLECTORIZED PAVEMENT MARKINGS - PATTERN B



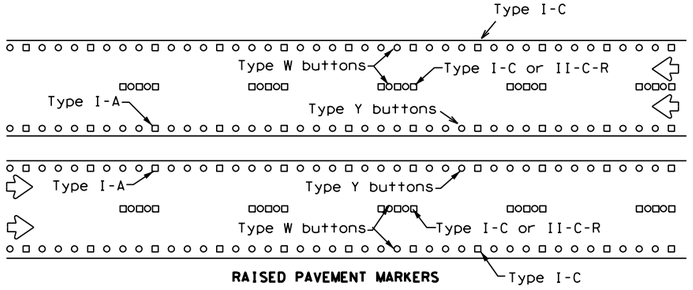
RAISED PAVEMENT MARKERS - PATTERN B

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



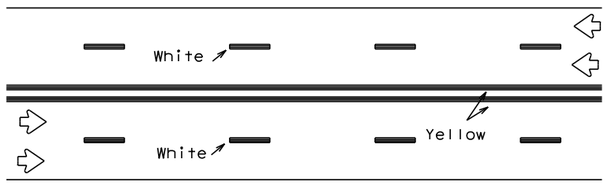
REFLECTORIZED PAVEMENT MARKINGS



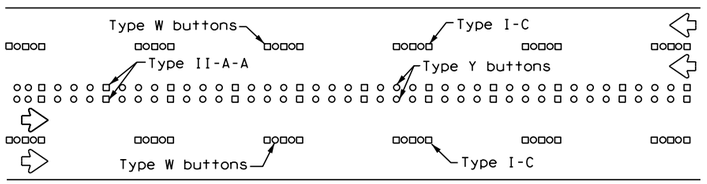
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

EDGE & LANE LINES FOR DIVIDED HIGHWAY



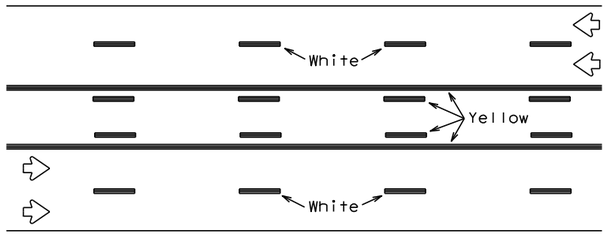
REFLECTORIZED PAVEMENT MARKINGS



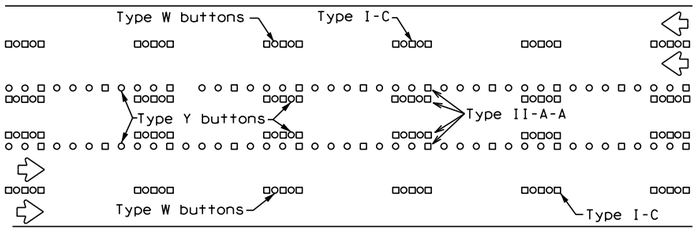
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



REFLECTORIZED PAVEMENT MARKINGS



RAISED PAVEMENT MARKERS

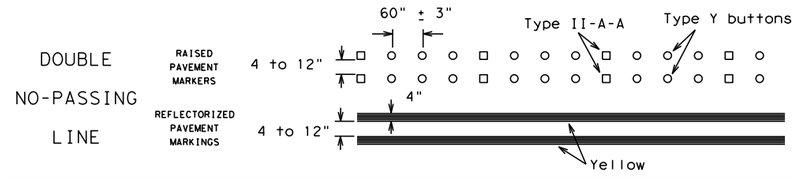
Prefabricated markings may be substituted for reflectorized pavement markings.

TWO-WAY LEFT TURN LANE

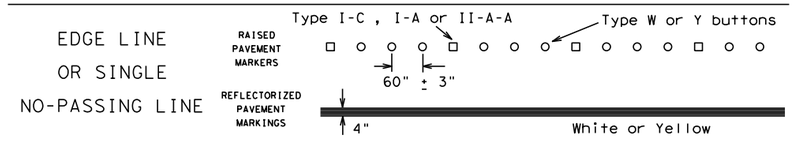
STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS

SOLID LINES

DOUBLE NO-PASSING LINE

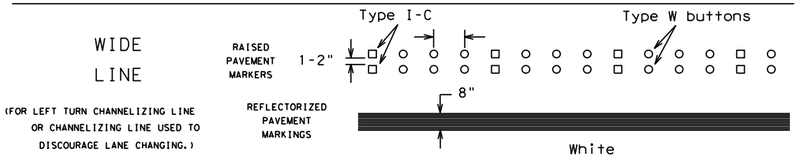


EDGE LINE OR SINGLE NO-PASSING LINE



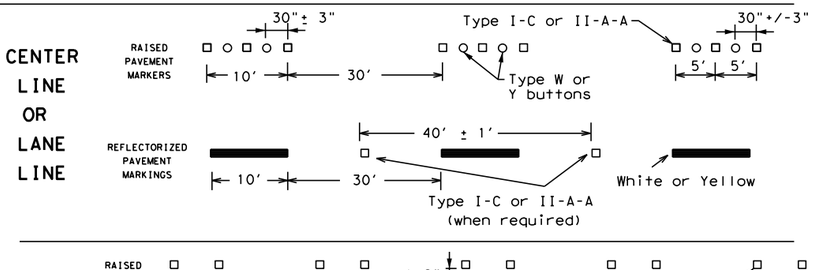
WIDE LINE

(FOR LEFT TURN CHANNELIZING LINE OR CHANNELIZING LINE USED TO DISCOURAGE LANE CHANGING.)

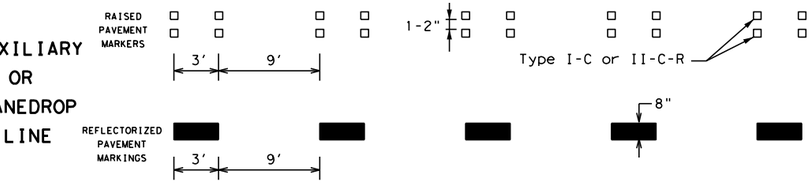


BROKEN LINES

CENTER LINE OR LANE LINE

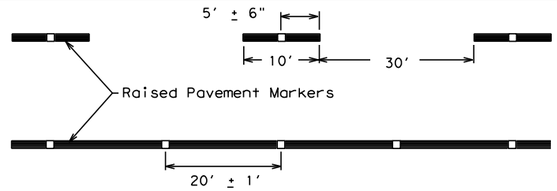


AUXILIARY OR LANEDROP LINE



REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

If raised pavement markers are used to supplement REMOVABLE markings, the markers shall be applied to the top of the tape at the approximate mid length of tape used for broken lines or at 20 foot spacing for solid lines. This allows an easier removal of raised pavement markers and tape.



Centerline only - not to be used on edge lines

Raised pavement markers used as standard pavement markings shall be from the approved products list and meet the requirements of Item 672 "RAISED PAVEMENT MARKERS."

SHEET 12 OF 12

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-21

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	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		50

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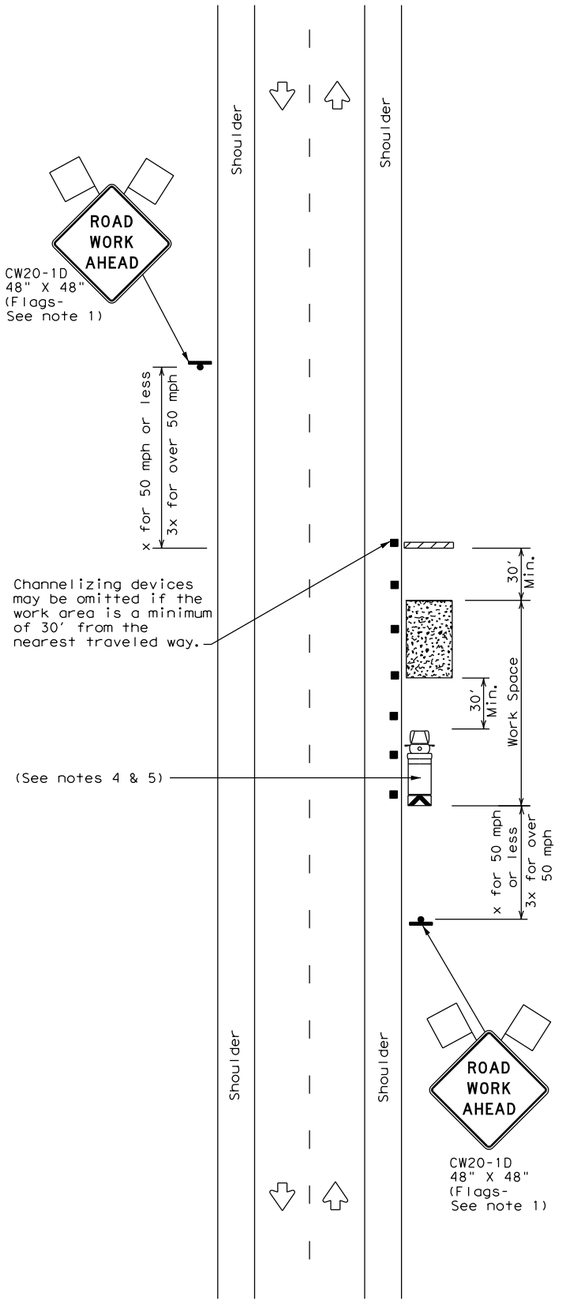
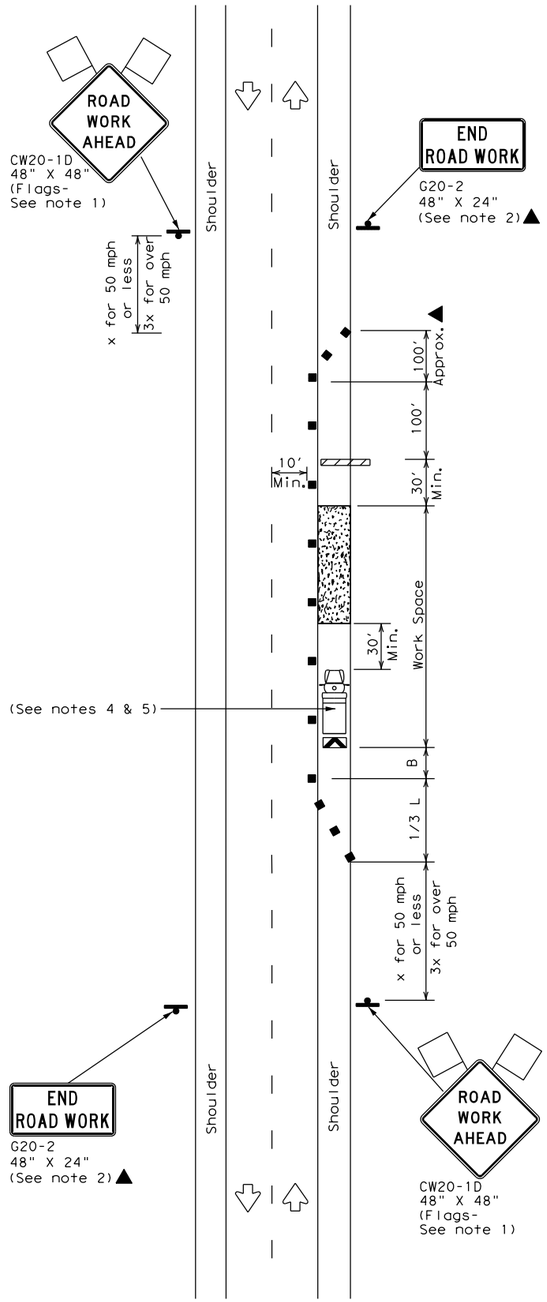


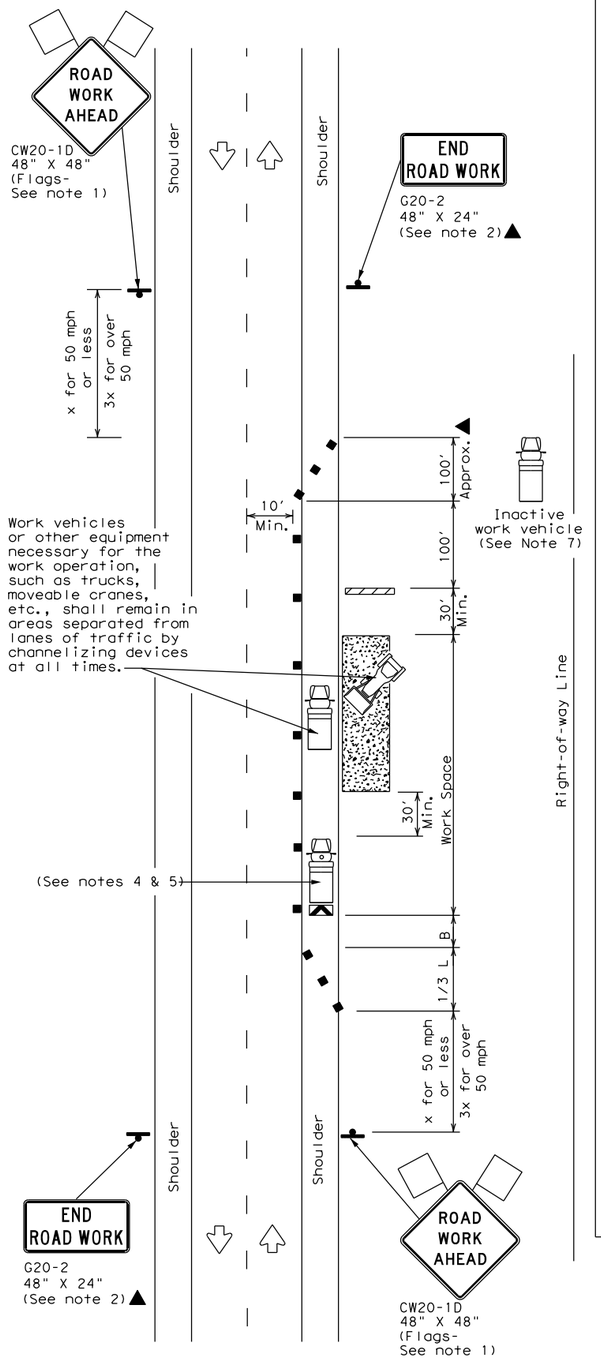
TCP (2-1a)

WORK SPACE NEAR SHOULDER
Conventional Roads



TCP (2-1b)

WORK SPACE ON SHOULDER
Conventional Roads



TCP (2-1c)

WORK VEHICLES ON SHOULDER
Conventional Roads

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	✓

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 in the plans, or for routine maintenance work, when approved by the Engineer.
3. Stockpiled material should be placed a minimum of 30 feet from nearest traveled way.
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.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.
6. See TCP(5-1) for shoulder work on divided highways, expressways and freeways.
7. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
8. CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(2-1)-18

FILE: tcp2-1-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
2-94 4-98	DIST	COUNTY		SHEET NO.
8-95 2-12	YKM	COLORADO, ETC.		51
1-97 2-18				

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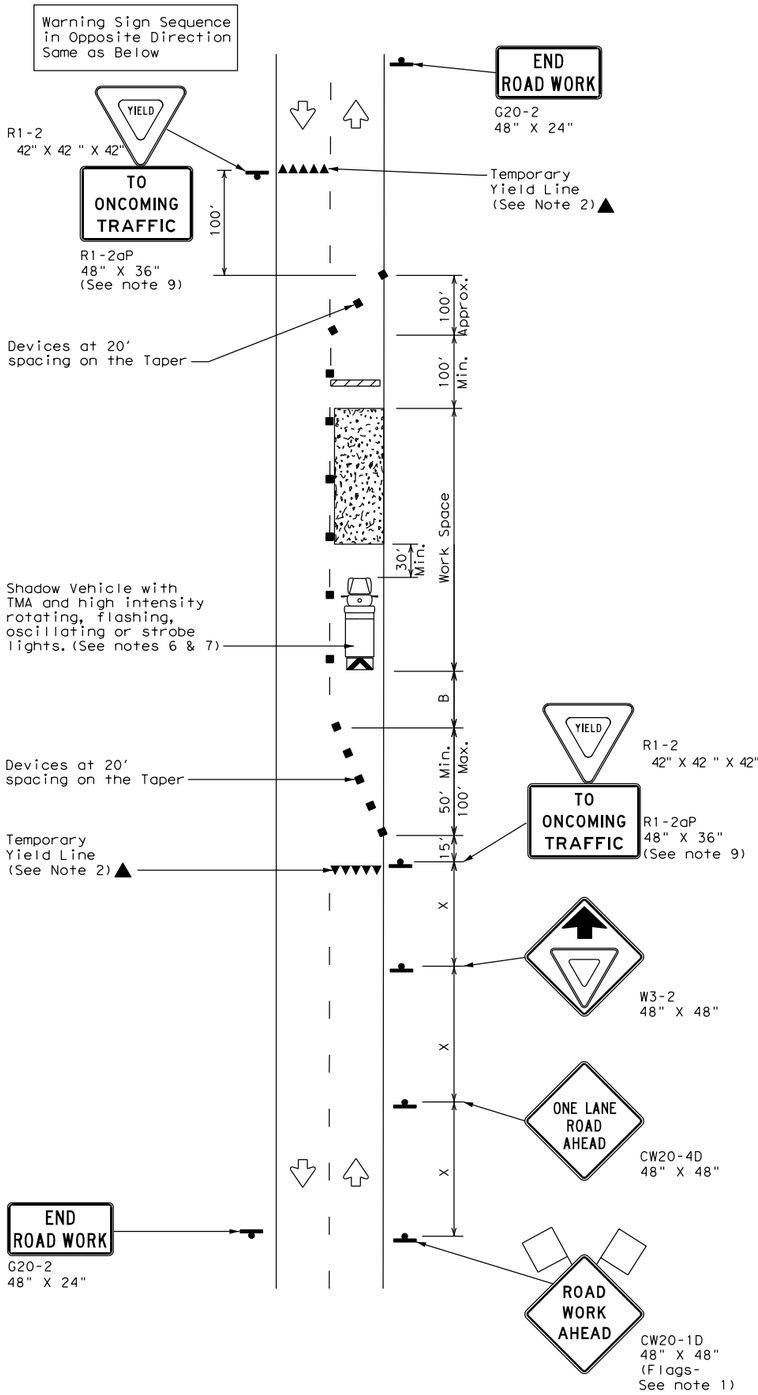
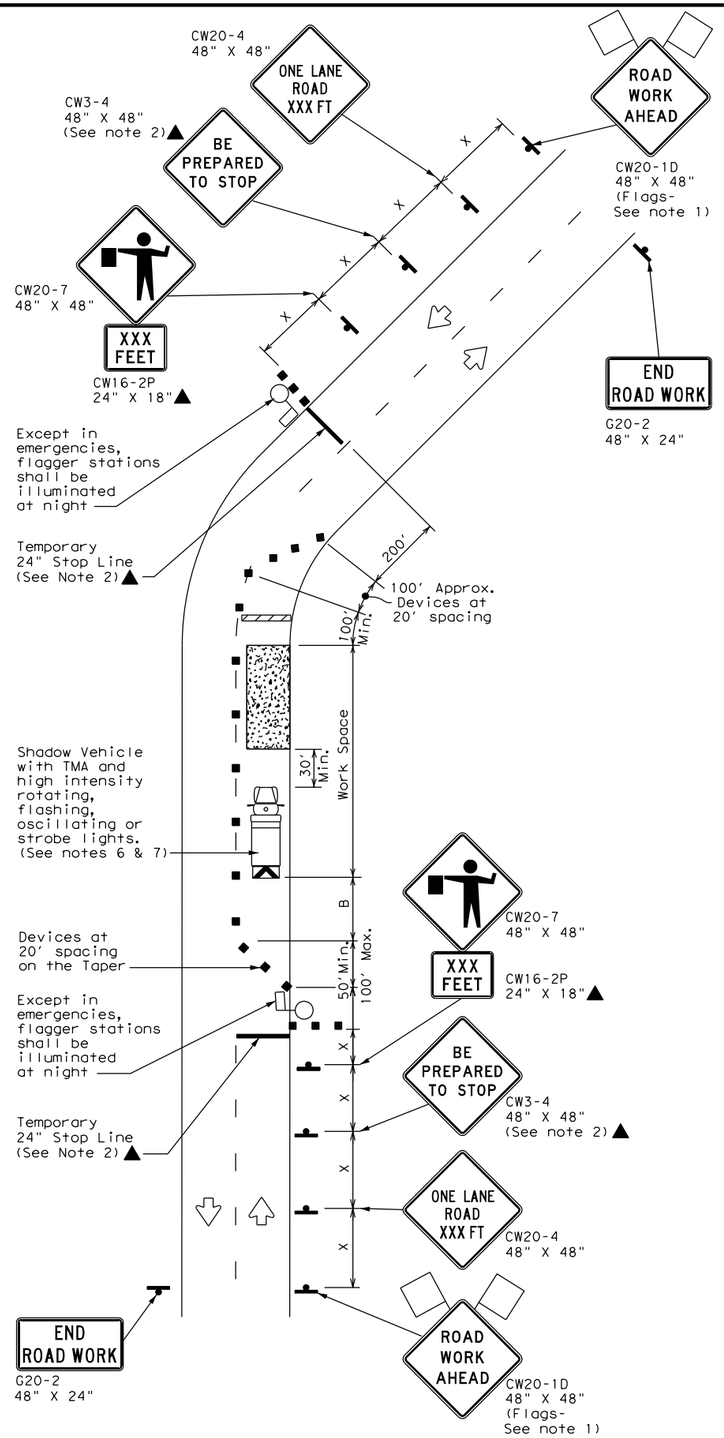


TCP (2-2a)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH YIELD SIGNS
(Less than 2000 ADT - See Note 9)



TCP (2-2b)
2-LANE ROADWAY WITHOUT PAVED SHOULDERS
ONE LANE TWO-WAY
CONTROL WITH FLAGGERS

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"	Stopping Sight Distance
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'	200'
35		205'	225'	245'	35'	70'	160'	120'	250'
40		265'	295'	320'	40'	80'	240'	155'	305'
45	L=WS	450'	495'	540'	45'	90'	320'	195'	360'
50		500'	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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	✓	✓	✓	

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 CW20-4 "ONE LANE ROAD XXX FT" sign, but proper sign spacing shall be maintained.
4. Flaggers should use two-way radios or other methods of communication to control traffic.
5. Length of work space should be based on the ability of flaggers to communicate.
6. 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.
7. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-2a)

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

TCP (2-2b)

10. Channelizing devices on the center line may be omitted when a pilot car is leading traffic and approved by the Engineer.
11. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain stopping sight distance to the flagger and a queue of stopped vehicles. (See table above).
12. Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situtations.

Texas Department of Transportation
Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
ONE-LANE TWO-WAY
TRAFFIC CONTROL

TCP(2-2)-18

FILE: tcp2-2-18.dgn	DN:	CK:	DW:	CK:
©TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS 8-95 3-03 1-97 2-12 4-98 2-18	0026	04	048, ETC.	US 90,ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		52

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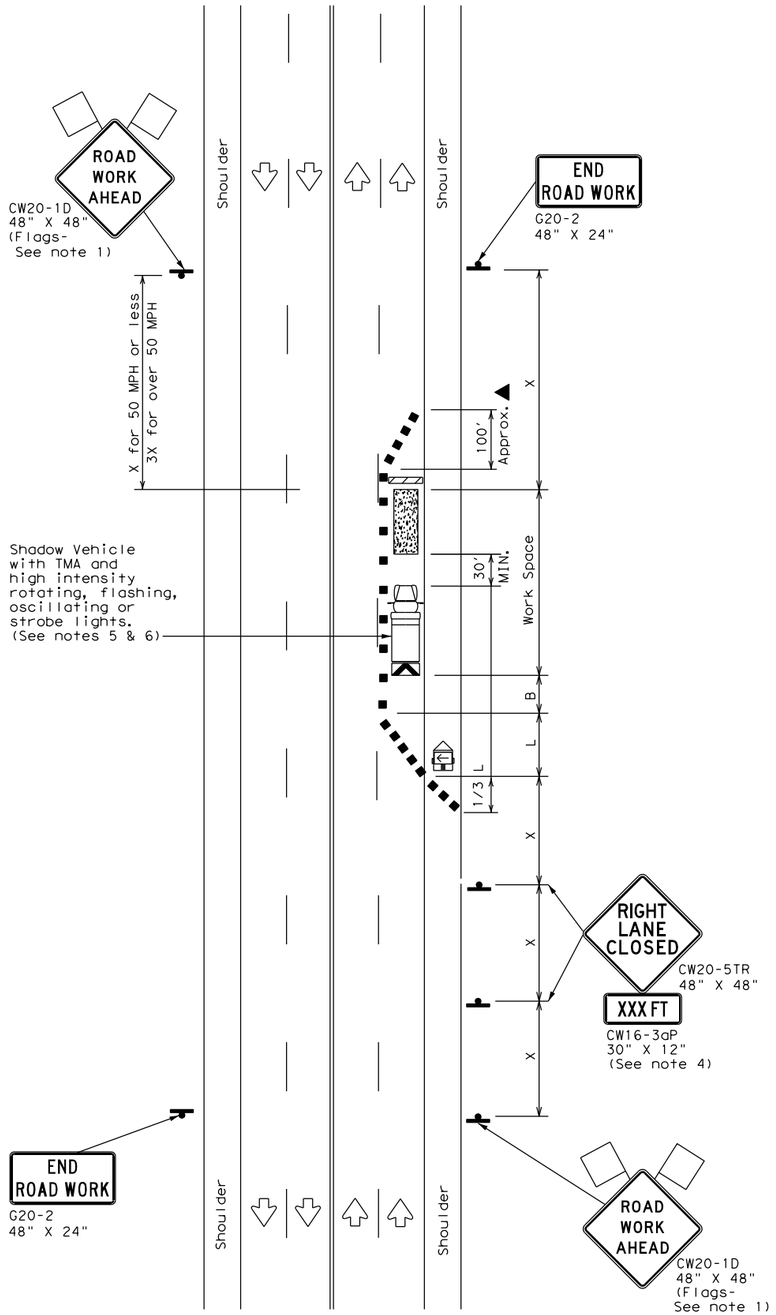
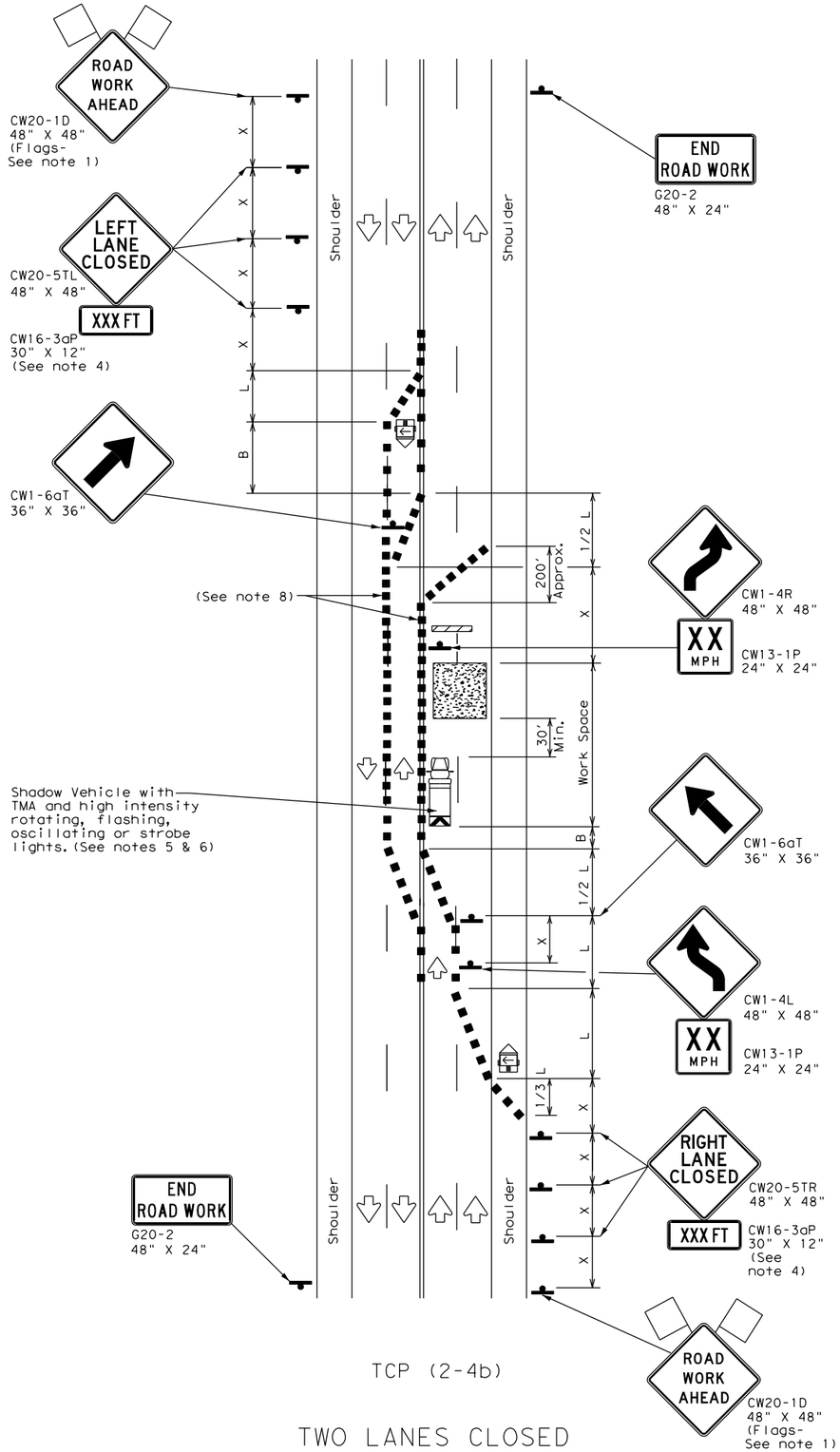


TCP (2-4a)

ONE LANE CLOSED



TCP (2-4b)

TWO LANES CLOSED

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

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices: On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
		✓	✓	

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 downstream taper is optional. When used, it should be 100 feet minimum length per lane.
4. For short term applications, when post mounted signs are not used, the distance legend may be shown on the sign face rather than on a CW16-3aP supplemental plaque.
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 in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-4a)

7. 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 to protect the work space from opposing traffic with the arrow board placed in the closed lane near the end of the merging taper.

TCP (2-4b)

8. For shorter durations 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 1/2(S) where S is the speed in mph. This tighter devices spacing is intended for the area of conflicting markings, not the entire work zone.

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

TCP(2-4)-18

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© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
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1-97 2-12	DIST	COUNTY		SHEET NO.
4-98 2-18	YKM	COLORADO, ETC.		53

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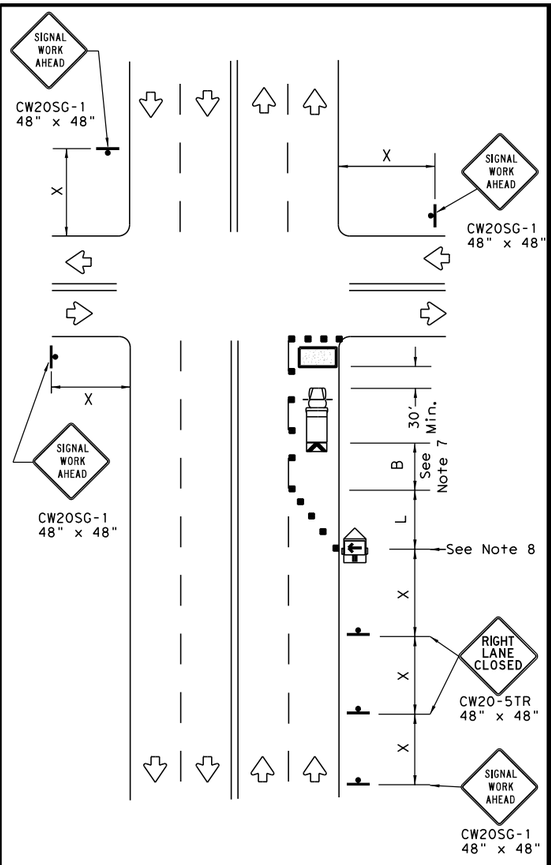
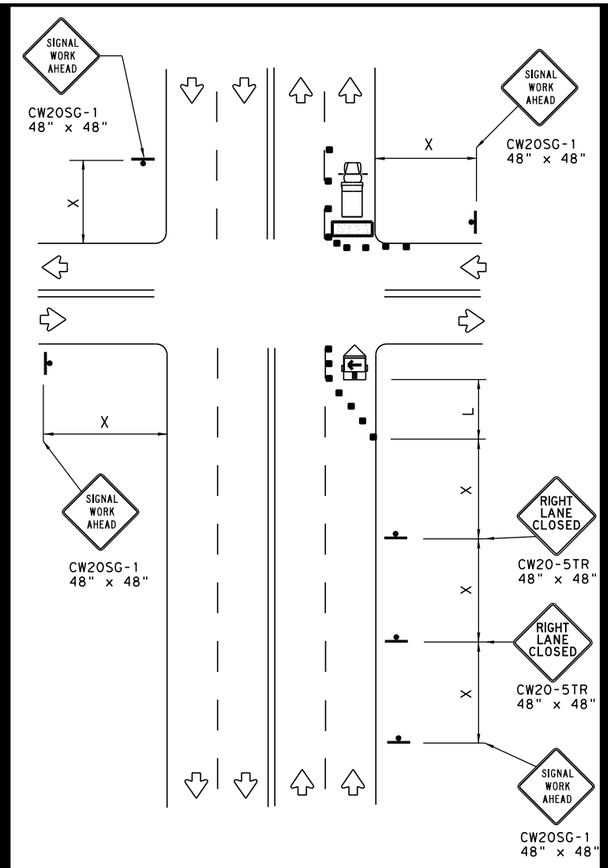


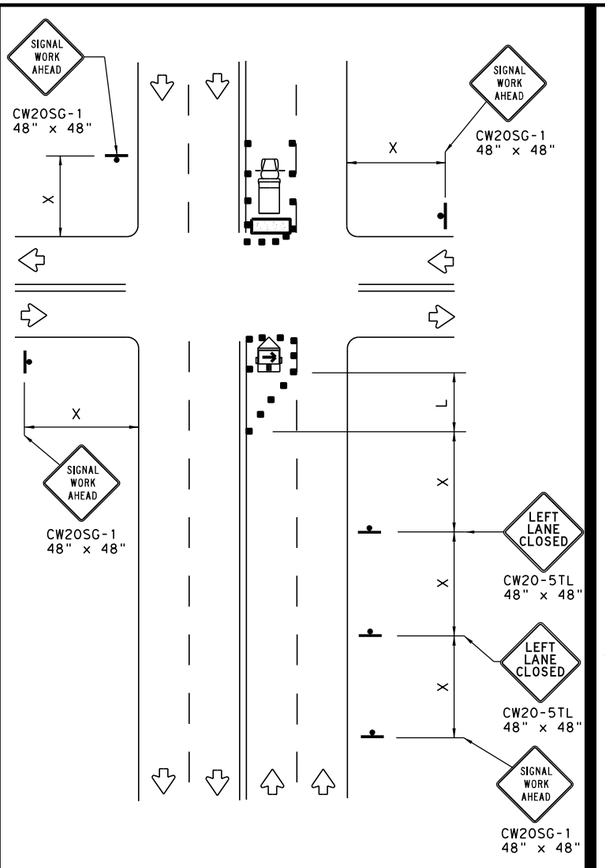
NEAR SIDE LANE CLOSURE

SHORT DURATION OR SHORT TERM STATIONARY



FAR SIDE RIGHT LANE CLOSURE

SHORT DURATION OR SHORT TERM STATIONARY



FAR SIDE LEFT LANE CLOSURE

SHORT DURATION OR SHORT TERM STATIONARY

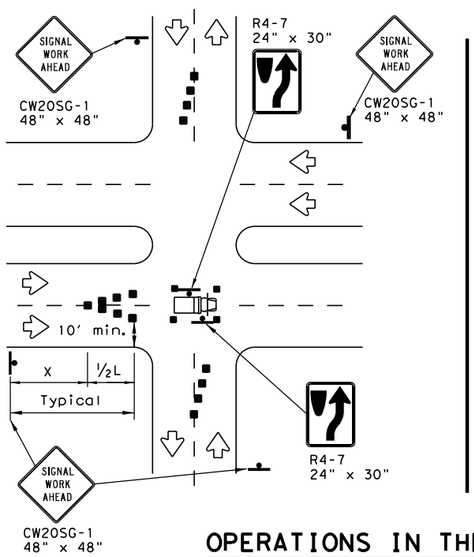
LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

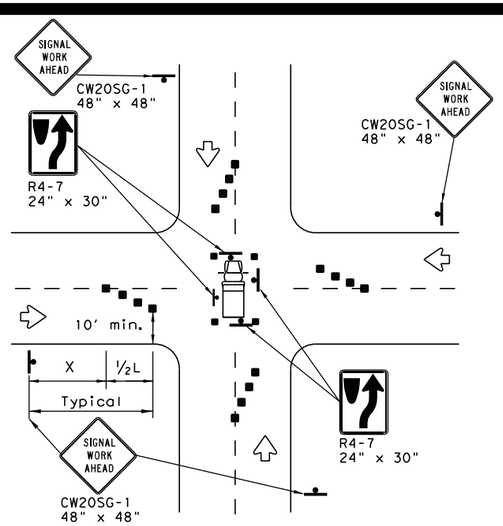
Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		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)

WORKERS IN BUCKET TRUCKS SHALL NOT WORK ABOVE OPEN LANES OF TRAFFIC.





OPERATIONS IN THE INTERSECTION

SHORT DURATION

GENERAL NOTES

1. The minimum size channelizing device is the 28" cone. 42" Two-piece cones, drums, vertical panels or barricades will be required when the device must be left unattended at night.
2. Obstructions or hazards at the work area shall be clearly marked and delineated at all times.
3. Flaggers and Flagger Symbol (CW20-7) signs may be required according to field conditions.
4. Vehicles parked in roadway shall be equipped with at least two high intensity rotating, flashing, oscillating or strobe type lights.
5. High level warning devices (flag trees) may be used at corners of the vehicle.
6. When work operations are performed on existing signals, the signals may be placed in flashing red mode when approved by the engineer. If existing signals do not have power, All-Way Stop (R1-1 and R1-3P) signs may be implemented when approved by the engineer.
7. For Short-Term Stationary work the buffer space "B" from the above table should be used if field conditions permit. For Short Duration (less than 1 hour) any buffer space provided will enhance the safety of the setup.
8. The arrow board at this location may be omitted for Short Duration work if the work vehicle has an arrow board in operation. As an option, the arrow board may be placed at the end of the taper in the closed lane if space is not available at the beginning of the taper.
9. Signs and devices for the NEAR SIDE LANE CLOSURE may be altered for a left lane closure by using a LEFT LANE CLOSED (CW20-5TL) and adding channelizing devices on the centerline to protect the work space from opposing traffic.

Texas Department of Transportation | Traffic Operations Division Standard

TRAFFIC SIGNAL WORK TYPICAL DETAILS

WZ (BTS-1)-13

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©TxDOT April 1992	CONT	SECT	JOB	HIGHWAY
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2-98 10-99 7-13	DIST	COUNTY		SHEET NO.
4-98 3-03	YKM	COLORADO, ETC.		54

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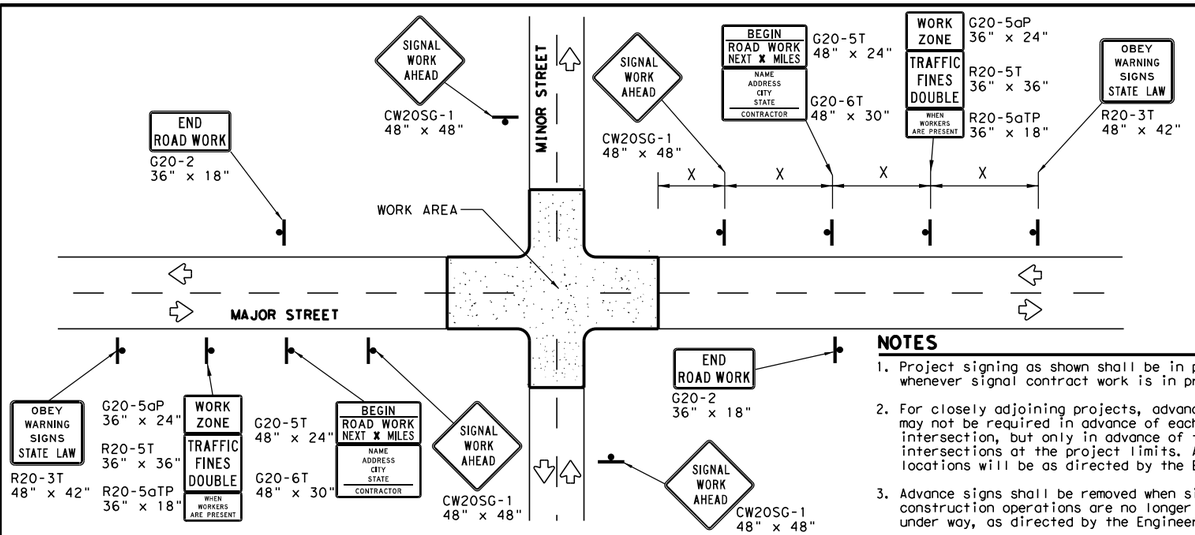


TYPICAL ADVANCE SIGNAL PROJECT SIGNING

FOR LONG TERM and INTERMEDIATE-TERM STATIONARY WORK OPERATIONS

NOTES

1. Project signing as shown shall be in place whenever signal contract work is in progress.
2. For closely adjoining projects, advance signing may not be required in advance of each intersection, but only in advance of the intersections at the project limits. Actual locations will be as directed by the Engineer.
3. Advance signs shall be removed when signal construction operations are no longer under way, as directed by the Engineer.
4. Warning sign spacing shown is typical for both directions.
5. See the Table on sheet 1 of 2 for Typical warning sign spacing.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Signs shall be installed and maintained in a straight and plumb condition.
2. Wooden sign posts shall be painted white.
3. Barricades shall NOT be used as sign supports.
4. Nails shall NOT be used to attach signs to any support.
5. All signs shall be installed in accordance with the plans or as directed by the Engineer.
6. The Contractor shall furnish the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD).
7. The Contractor shall furnish sign supports and substrates listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD), installed as per the manufacturer's recommendations.
8. Temporary signs that have damaged or cracked substrates and/or damaged or marred reflective sheeting shall be replaced as directed by the Engineer.
9. 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".
10. Damaged wood posts shall be replaced. Splicing wood posts will not be allowed.

DURATION OF WORK

1. Work zone durations are defined in Part 6, Section 6G.02 of the Texas Manual on Uniform Traffic Control Devices (TMUTCD).

SIGN MOUNTING HEIGHT

1. Sign height of Long-term/Intermediate-term warning signs shall be as shown on Figure 6F-1 of the TMUTCD.
2. Sign height of Short-term/Short Duration warning signs shall be as shown on Figure 6F-2 of the TMUTCD.
3. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered, unless otherwise approved by the Engineer.
2. 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, or heavy materials such as plywood or aluminum shall not be used to cover signs.
3. Duct tape or other adhesive material shall NOT be affixed to a sign face.
4. Signs and anchor stubs shall be removed and holes back filled upon completion of the work.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the requirements of the DMS and color usage table shown on this sheet.

SIGN SUPPORT WEIGHTS

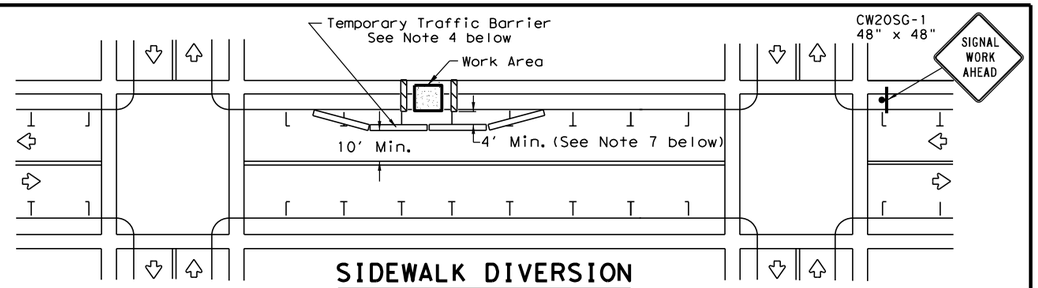
1. Weights used to keep signs from turning over should be sandbags filled with dry, cohesionless material.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects will not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber, such as tire inner tubes, shall not be used.
6. 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.
7. 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 fastners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

LEGEND	
	Sign
	Channelizing Devices
	Type 3 Barricade

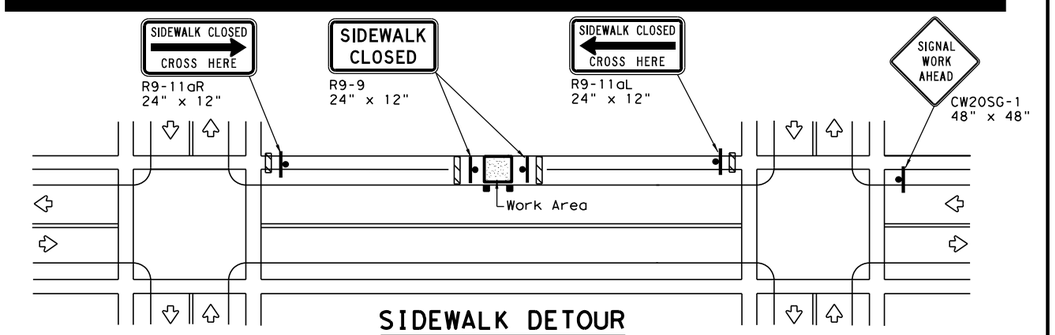
DEPARTMENTAL MATERIAL SPECIFICATIONS	
SIGN FACE MATERIALS	DMS-8300
FLEXIBLE ROLL-UP REFLECTIVE SIGNS	DMS-8310

COLOR	USAGE	SHEETING MATERIAL
ORANGE	BACKGROUND	TYPE B_{FL} OR TYPE C_{FL} SHEETING
WHITE	BACKGROUND	TYPE A SHEETING
BLACK	LEGEND & BORDERS	ACRYLIC NON-REFLECTIVE SHEETING

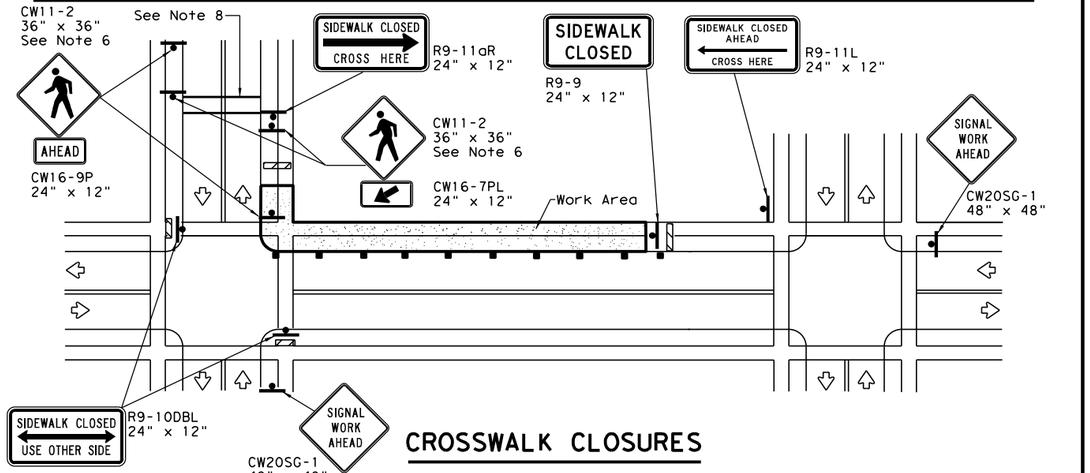
Only pre-qualified products shall be used. A copy of the "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found at the following web address:
http://www.txdot.gov/txdot_library/publications/construction.htm



SIDEWALK DIVERSION



SIDEWALK DETOUR



CROSSWALK CLOSURES

PEDESTRIAN CONTROL

1. Holes, trenches or other hazards shall be adequately protected by covering, delineating or surrounding the hazard with orange plastic pedestrian fencing or longitudinal channelizing devices, or as directed by the Engineer.
2. "CROSSWALK CLOSURES" as detailed above will require the Engineer's approval prior to installation.
3. R9 series signs shown may be placed on supports detailed on the BC standards or CWZTCD list, or when fabricated from approved lightweight plastic substrates, they may be mounted on top of a plastic drum at or near the location shown.
4. For speeds less than 45 mph longitudinal channelizing devices may be used instead of traffic barriers when approved by the Engineer. Attenuation of blunt ends and installation of water filled devices shall be as per BC(9) and manufacturer's recommendations.
5. Location of devices are for general guidance. Actual device spacing and location must be field adjusted to meet actual conditions.
6. Where pedestrians with visual disabilities normally use the closed sidewalk Detectable Pedestrian Barricades should be used instead of the Type 3 Barricades shown.
7. The width of existing sidewalk should be maintained if practical.
8. Pavement markings for mid-block crosswalks shall be paid for under the appropriate bid items.
9. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC SIGNAL WORK BARRICADES AND SIGNS

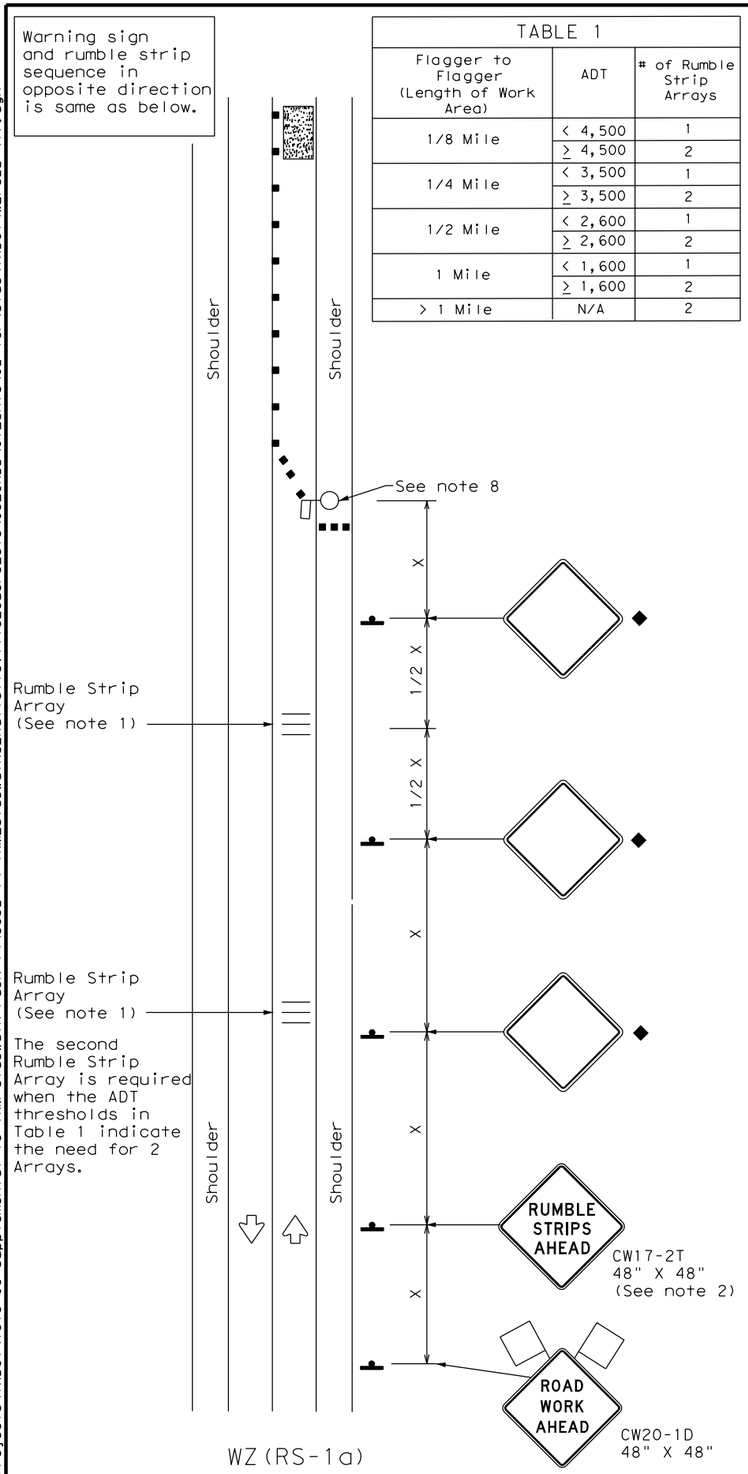
WZ (BTS-2)-13

FILE: wzbts-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT April 1992	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
2-98 10-99 7-13	DIST	COUNTY		SHEET NO.
4-98 3-03	YKM	COLORADO, ETC.		55

DATE: 6/4/2024 6:34:38 PM
FILE: G:\TxC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5852-14-45 YKM\sgd\wzrs22 (1).dgn

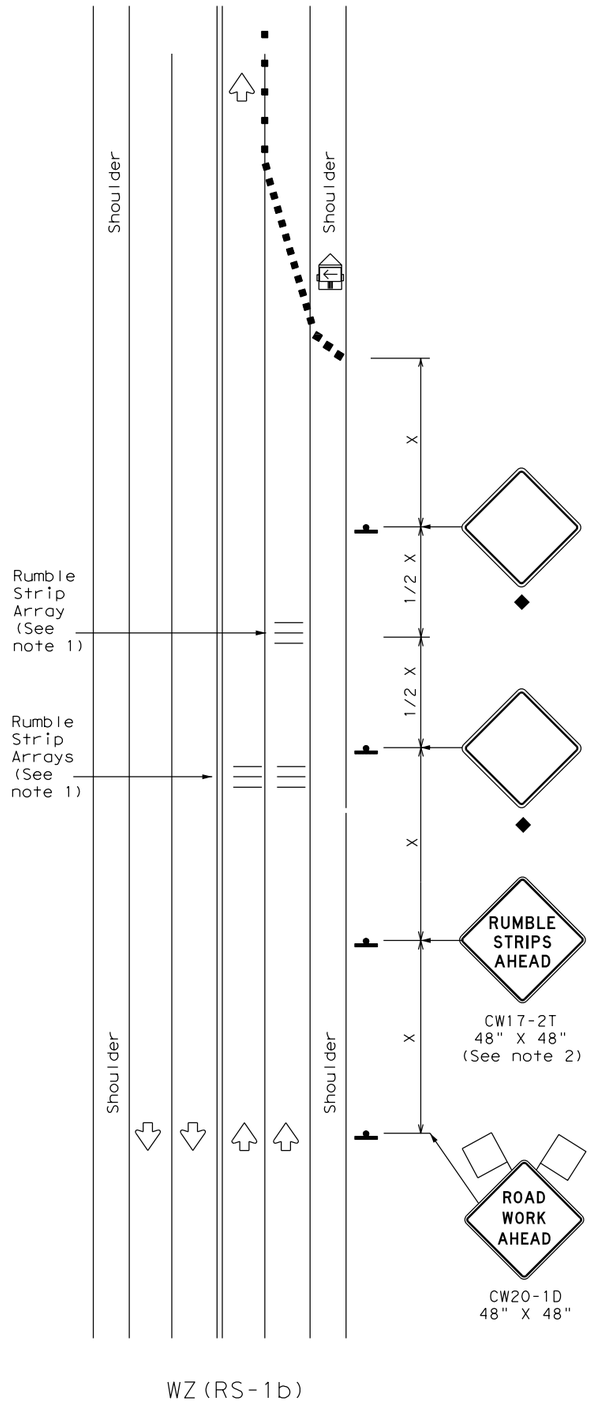
Warning sign and rumble strip sequence in opposite direction is same as below.

TABLE 1		
Flagger to Flagger (Length of Work Area)	ADT	# of Rumble Strip Arrays
1/8 Mile	< 4,500	1
	≥ 4,500	2
1/4 Mile	< 3,500	1
	≥ 3,500	2
1/2 Mile	< 2,600	1
	≥ 2,600	2
1 Mile	< 1,600	1
	≥ 1,600	2
> 1 Mile	N/A	2



WZ(RS-1a)

RUMBLE STRIPS ON ONE-LANE TWO-WAY APPLICATION



WZ(RS-1b)

RUMBLE STRIPS FOR LANE CLOSURE ON CONVENTIONAL ROADWAY

GENERAL NOTES

1. 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.
3. 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.
5. Temporary Rumble Strips should not be used on horizontal curves, loose gravel, soft or bleeding asphalt, heavily rutted pavements or unpaved surfaces.
6. Temporary Rumble Strips shall be installed and maintained as per manufacturer's recommendations.
7. This standard sheet shall be used in conjunction with other appropriate TCP standard, TMUTCD typical application or project specific detail for the project.
8. The one-lane two-way application may utilize a flagger, an Automated Flagger Assistance Device (AFAD) or a Portable Traffic Signal (PTS).
9. 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 Attenuator (TMA)
	Trailer Mounted Flashing Arrow Panel	M	Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths ** 10' Offset	11' Offset	12' Offset	Suggested Maximum Spacing of Channelizing Devices On a Taper	On a Tangent	Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
30	$L=\frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		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 DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM 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 between strips in an array
≤ 40 MPH	10'
> 40 MPH & ≤ 55 MPH	15'
= 60 MPH	20'
≥ 65 MPH	* 35' +

Texas Department of Transportation

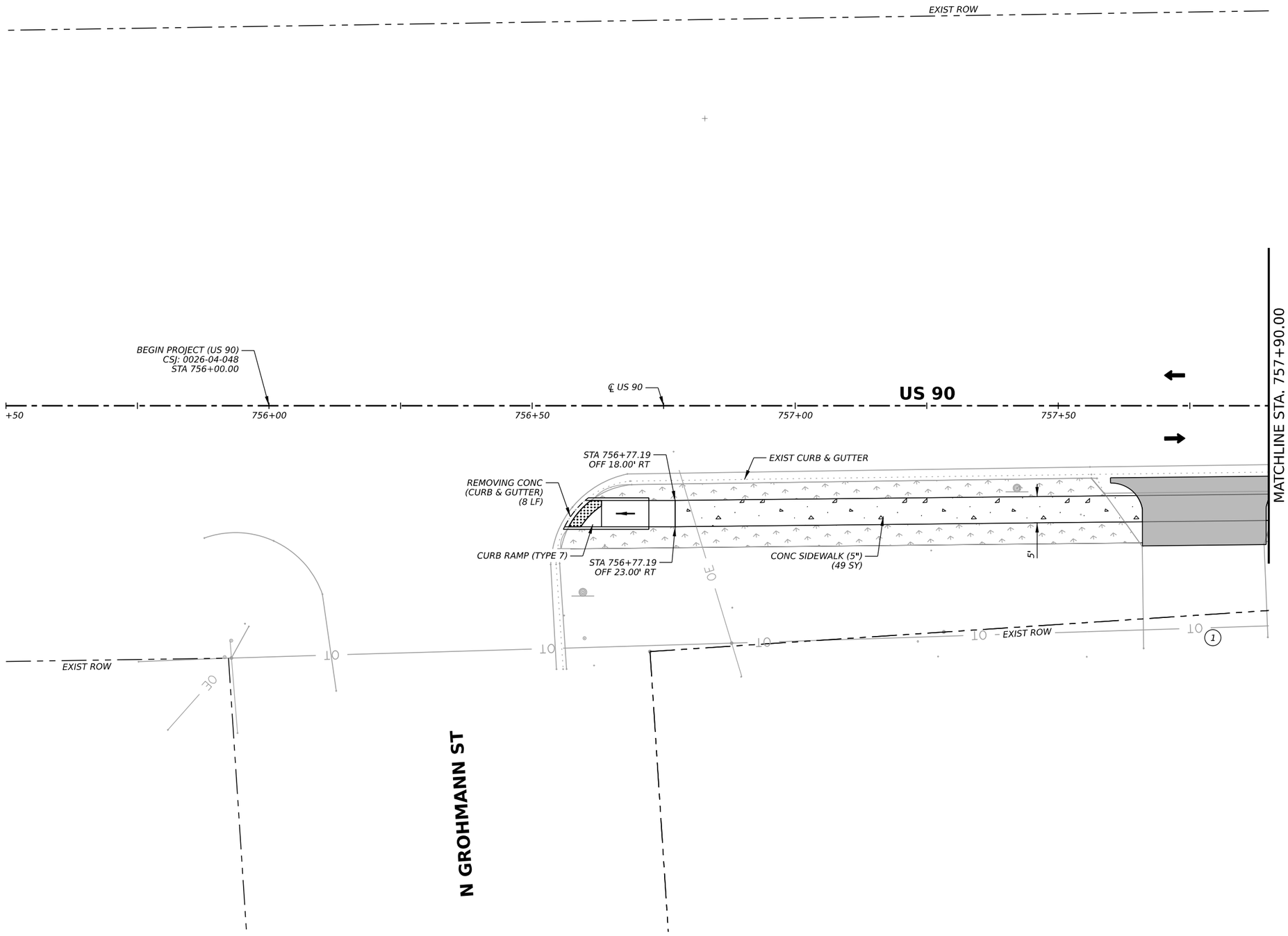
Traffic Safety Division Standard

TEMPORARY RUMBLE STRIPS

WZ(RS)-22

FILE: wzrs22.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT November 2012	CONT	SECT	JOB	HIGHWAY
REVISIONS 2-14 1-22 4-16	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		56

117



LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER
6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 1 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		57

DATE: 6/4/2024 6:34:41 PM
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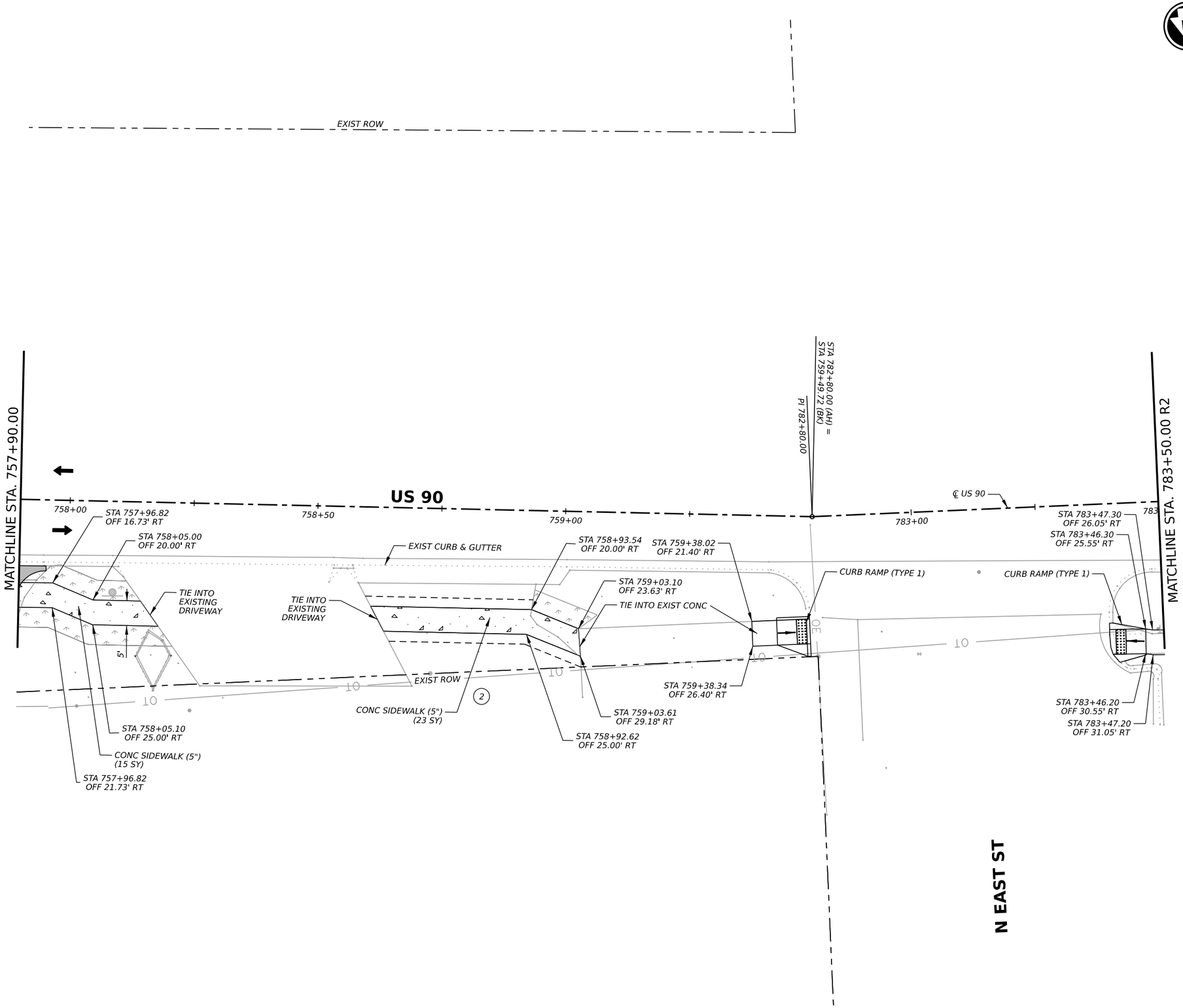

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 2 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		58

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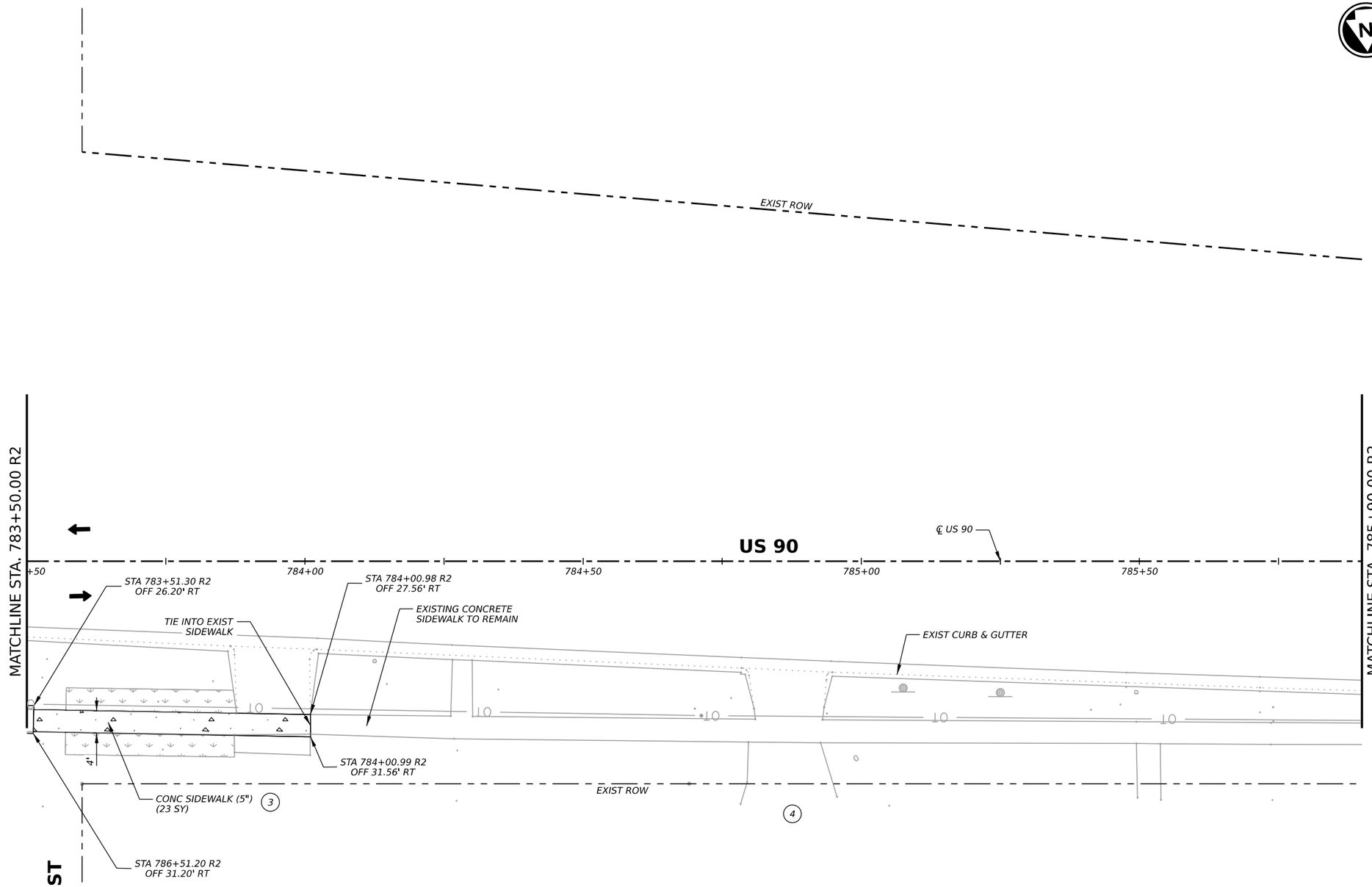

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 3 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		59

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ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT

LEGEND

- DIRECTION OF TRAFFIC
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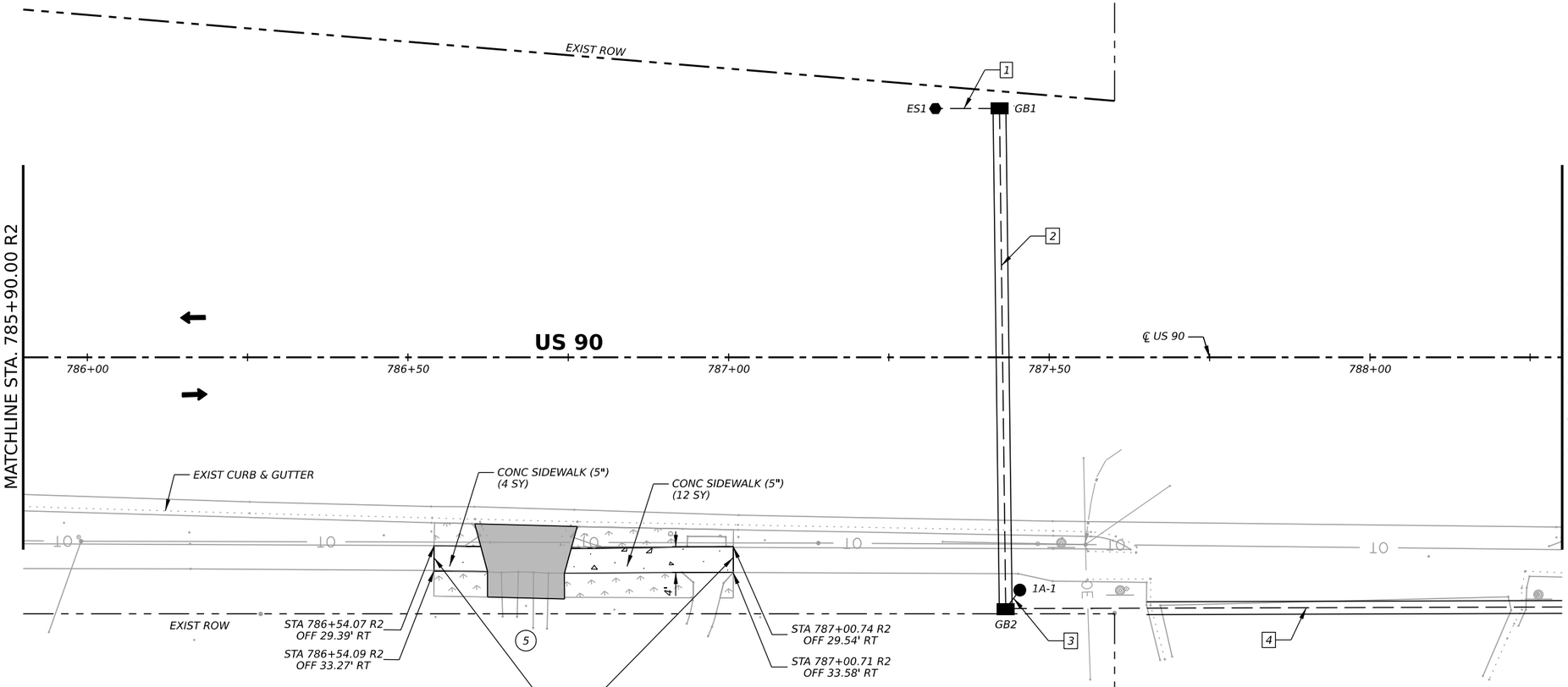
SCALE: 1" = 20'



ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	6	LF
618-6046	CONDT (PVC) (SCH 80) (2")	94	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	158	LF
620-6004	ELEC CONDR (NO.12) INSULATED	42	LF
620-6006	ELEC CONDR (NO.10) INSULATED	834	LF
624-6002	GROUND BOX TY A (122311)W/APRON	2	EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)	1	EA
6208-6001	PEDESTRIAN ILLUMINATION	1	EA

ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
ES1	787+32.25	38.81' LT
GB1	787+42.25	38.81' LT
GB2	787+43.21	39.20' RT
1A-1	787+45.42	36.32' RT

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
1	10		20	3		60
2		78	88	3		264
3	4		14	3	42	
4	80	80	170	3		510

Elec. Service No.	Sheet No.	Electrical Service Description (see ED (4) - 00)	Service Conduit Size	Service Conductors No./Size	Safety Switch Amps	Main Ckt. Bkr. Pole/Amp	Two-Pole Contactor Amps	Panelbd/ Loadcenter Amp Rating	Circuit No.	Branch Ckt. Bkr. Pole/Amps	Branch Circuit Amps	KVA Load
ES1	4	ELEC SERV TY D(120/240)060(NS)AL(E)SP(U	1 1/2"	3/#6	N/A	2P/60	N/A	70	A	1P/20	6	0.7
									B	1P/20	SPARE	

STATE OF TEXAS
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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 4 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		60

DATE: 6/4/2024 2:06:41 PM
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CK: DW: CK: DW:

ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
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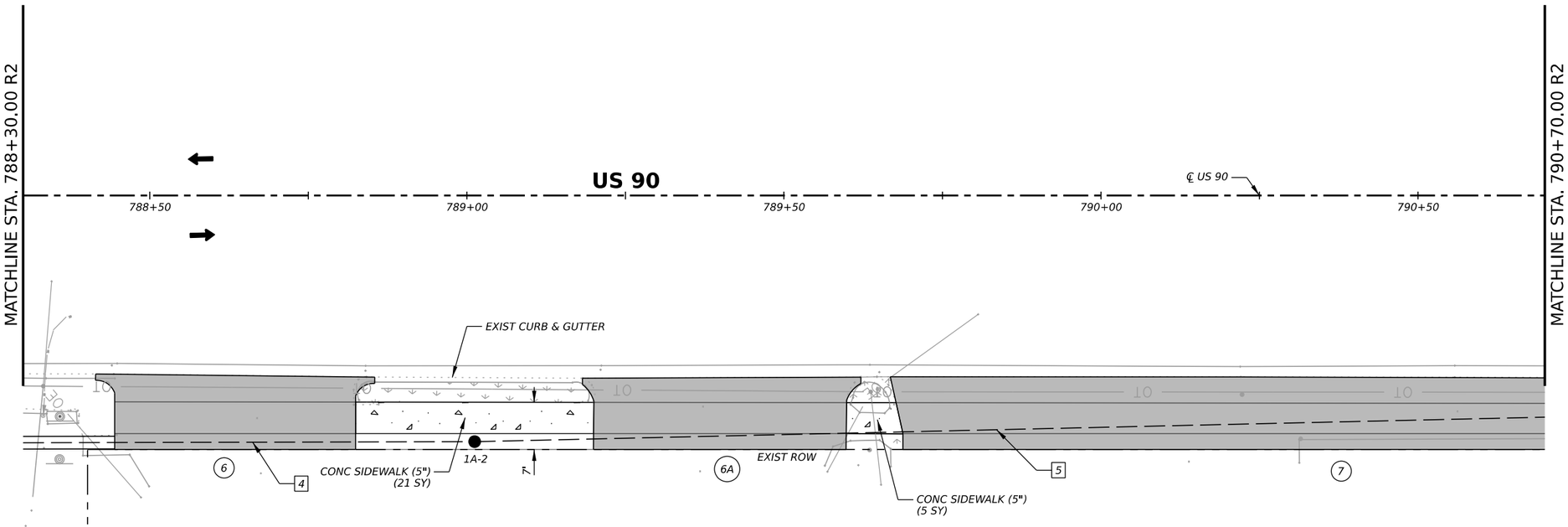
0 10 20
SCALE: 1" = 20'



ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	6	LF
618-6046	CONDT (PVC) (SCH 80) (2")	190	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	80	LF
620-6004	ELEC CONDR (NO.12) INSULATED		LF
620-6006	ELEC CONDR (NO.10) INSULATED	840	LF
624-6002	GROUND BOX TY A (122311)W/APRON		EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)		EA
6208-6001	PEDESTRIAN ILLUMINATION	1	EA

ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
1A-2	789+01.22	38.78' RT

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
5	190	80	280	3		840

STATE OF TEXAS
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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 5 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		61

DATE: 6/4/2024 2:06:42 PM
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DW: CK: DW: CK:

ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

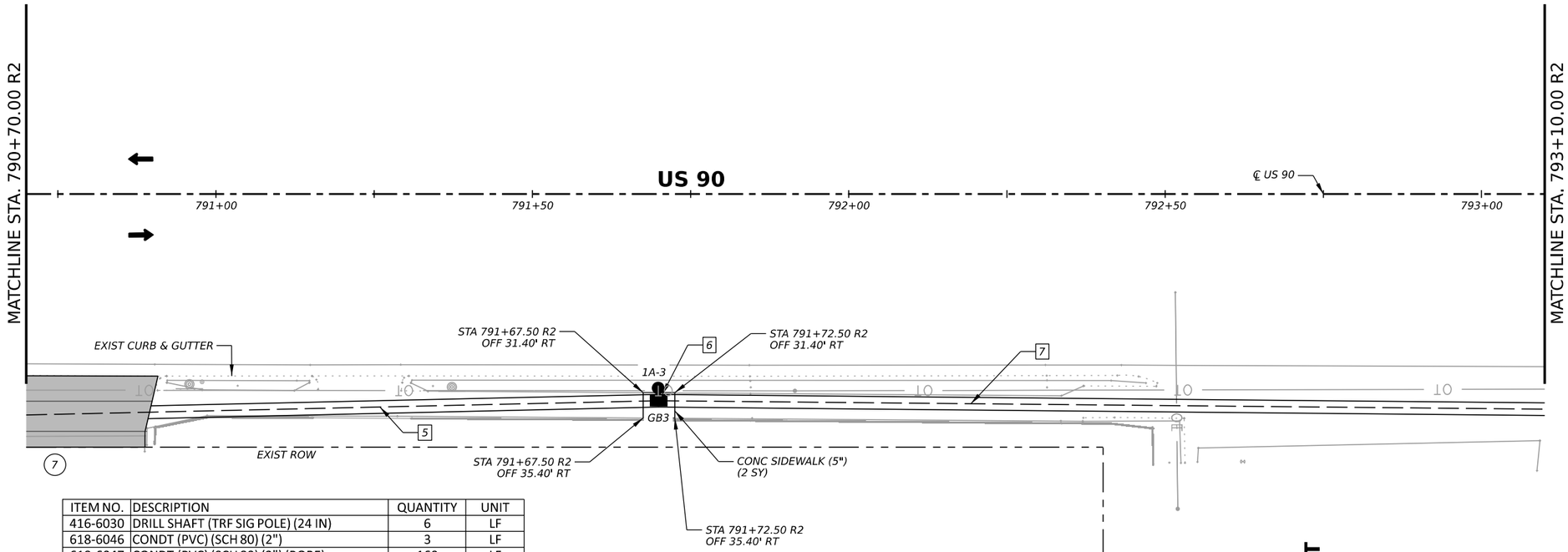
- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'



ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	6	LF
618-6046	CONDT (PVC) (SCH 80) (2")	3	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	160	LF
620-6004	ELEC CONDR (NO.12) INSULATED	39	LF
620-6006	ELEC CONDR (NO.10) INSULATED	510	LF
624-6002	GROUND BOX TY A (122311)W/APRON	1	EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)		EA
6208-6001	PEDESTRIAN ILLUMINATION	1	EA

ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
GB3	791+69.90	32.66' RT
1A-3	791+69.88	30.66' RT

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
6	3		13	3	39	
7		160	170	3		510

STATE OF TEXAS
HUNTER T. KUTACH
151241
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PROFESSIONAL ENGINEER
6/4/2024

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 6 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		62

DATE: 6/4/2024 2:06:43 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03_CADD\01_Shts\03-RDWY\YKM14_WEIMAR_PLAN_06.dgn

ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

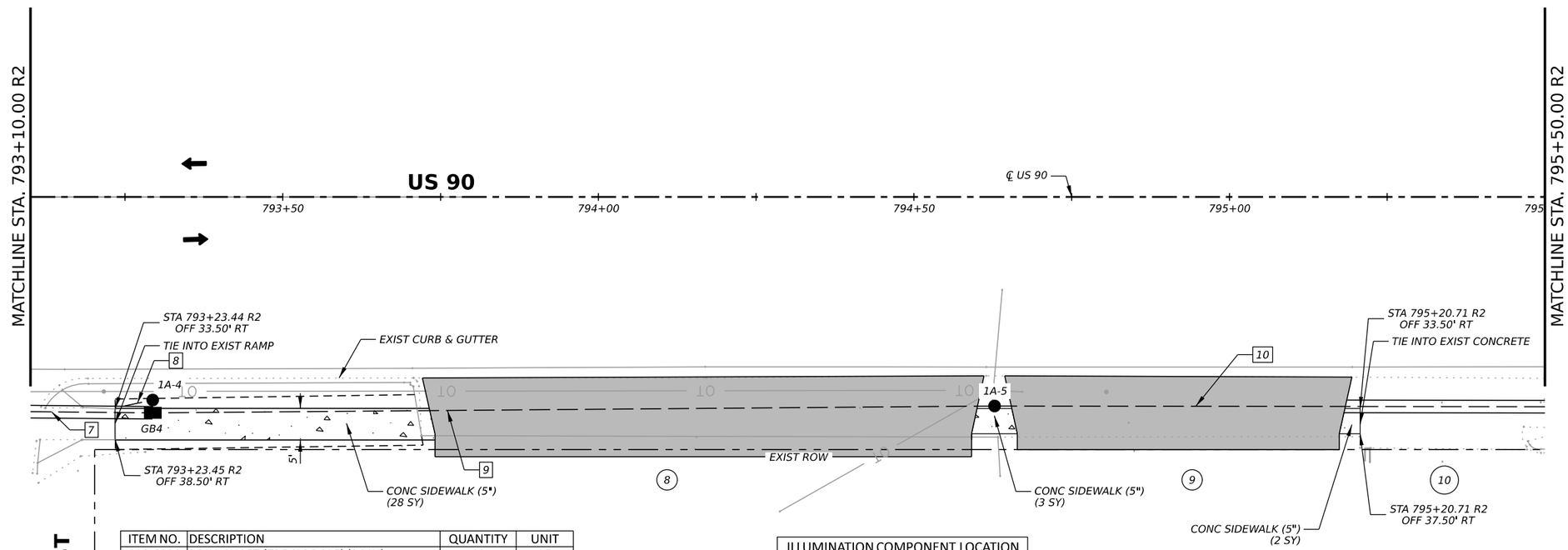
- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'



ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	12	LF
618-6046	CONDT (PVC) (SCH 80) (2")	193	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	44	LF
620-6004	ELEC CONDR (NO.12) INSULATED	801	LF
620-6006	ELEC CONDR (NO.10) INSULATED		LF
624-6002	GROUND BOX TY A (122311)W/APRON	1	EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)		EA
6208-6001	PEDESTRIAN ILLUMINATION	2	EA

ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
GB4	793+29.34	34.19' RT
1A-4	793+29.38	32.17' RT
1A-5	794+62.79	33.11' RT

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
8	3		13	3	39	
9	135		145	3	435	
10	55	44	109	3	327	

STATE OF TEXAS
HUNTER T. KUTACH
151241
LICENSED
PROFESSIONAL ENGINEER
6/4/2024

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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 7 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		63

DATE: 6/4/2024 2:06:46 PM
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DATE: 6/4/2024 2:06:47 PM
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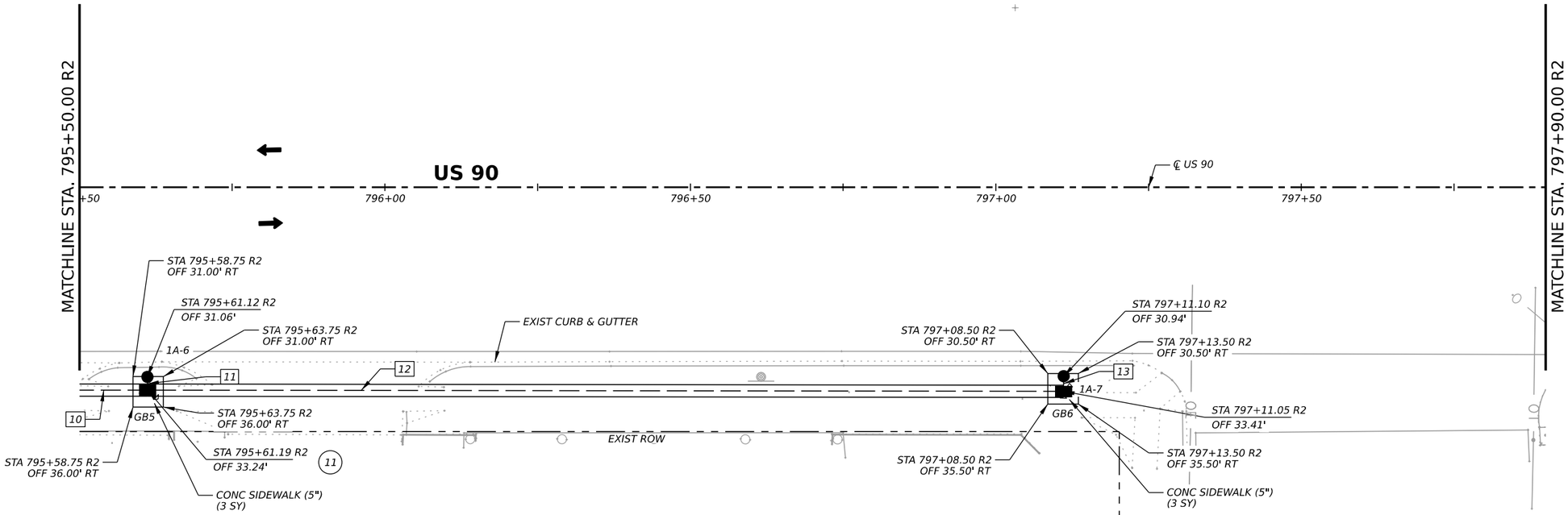
ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA



0 10 20
SCALE: 1" = 20'

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	12	LF
618-6046	CONDT (PVC) (SCH 80) (2")	6	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	150	LF
620-6004	ELEC CONDR (NO.12) INSULATED	558	LF
620-6006	ELEC CONDR (NO.10) INSULATED		LF
624-6002	GROUND BOX TY A (122311)W/APRON	2	EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)		EA
6208-6001	PEDESTRIAN ILLUMINATION	2	EA

ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
GB5	795+61.19	33.4' RT
1A-6	795+61.12	31.06' RT
GB6	797+11.05	33.41' RT
1A-7	797+11.10	30.94' RT

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
11	3		13	3	39	
12		150	160	3	480	
13	3		13	3	39	

STATE OF TEXAS
HUNTER T. KUTACH
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6/4/2024

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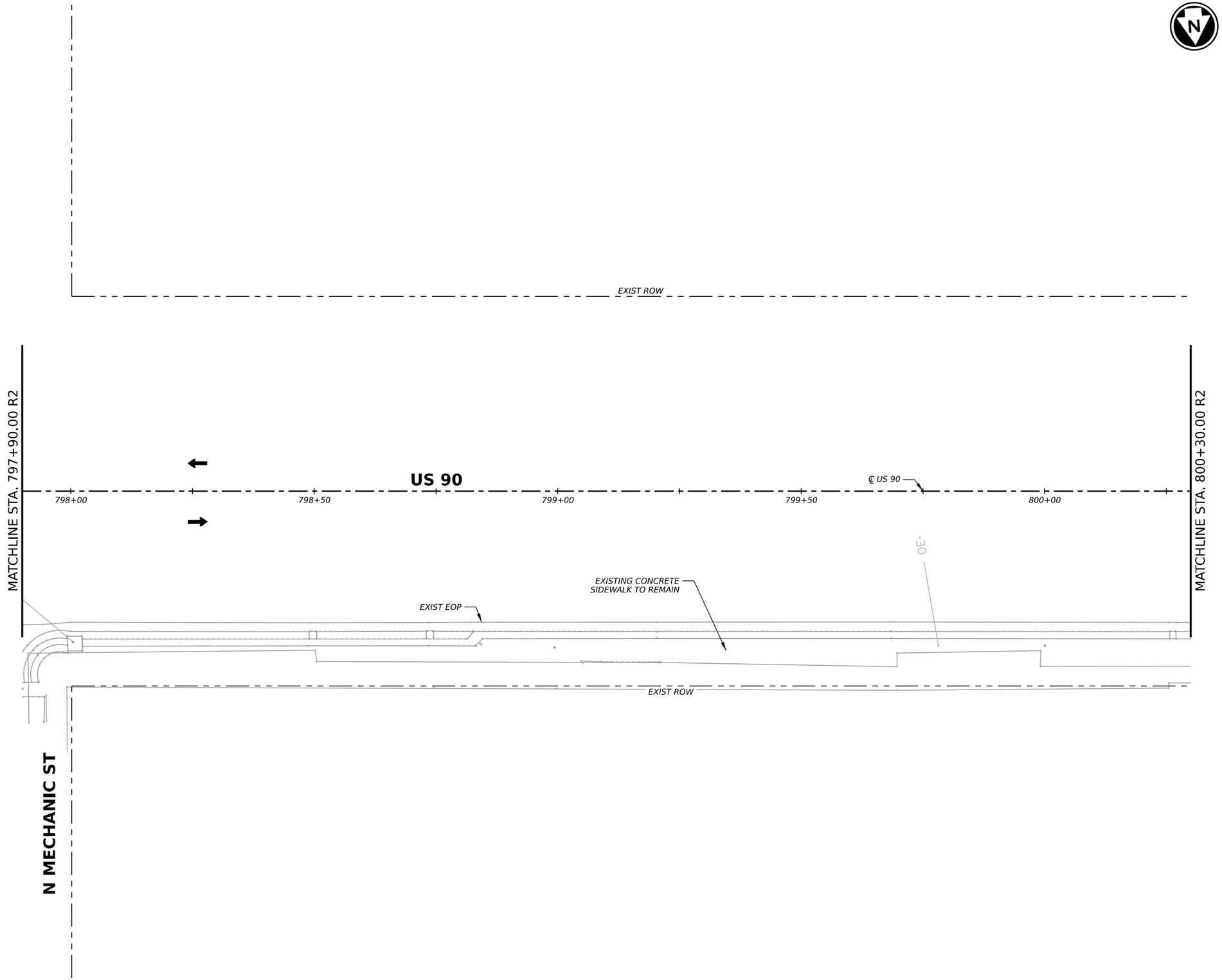
Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 8 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		64



LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. NO PROPOSED WORK ON THIS SHEET.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		65

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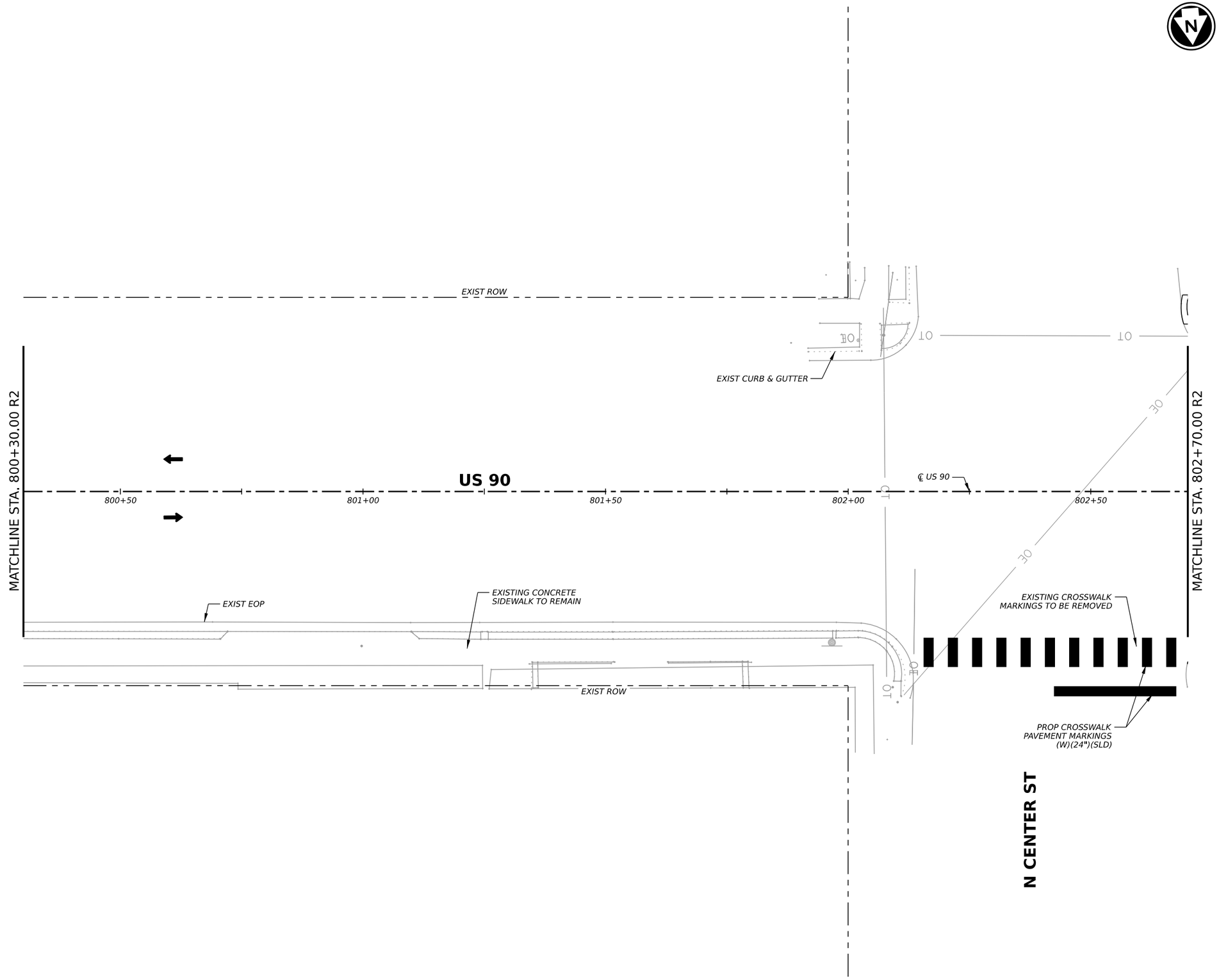

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 10 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		66

ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

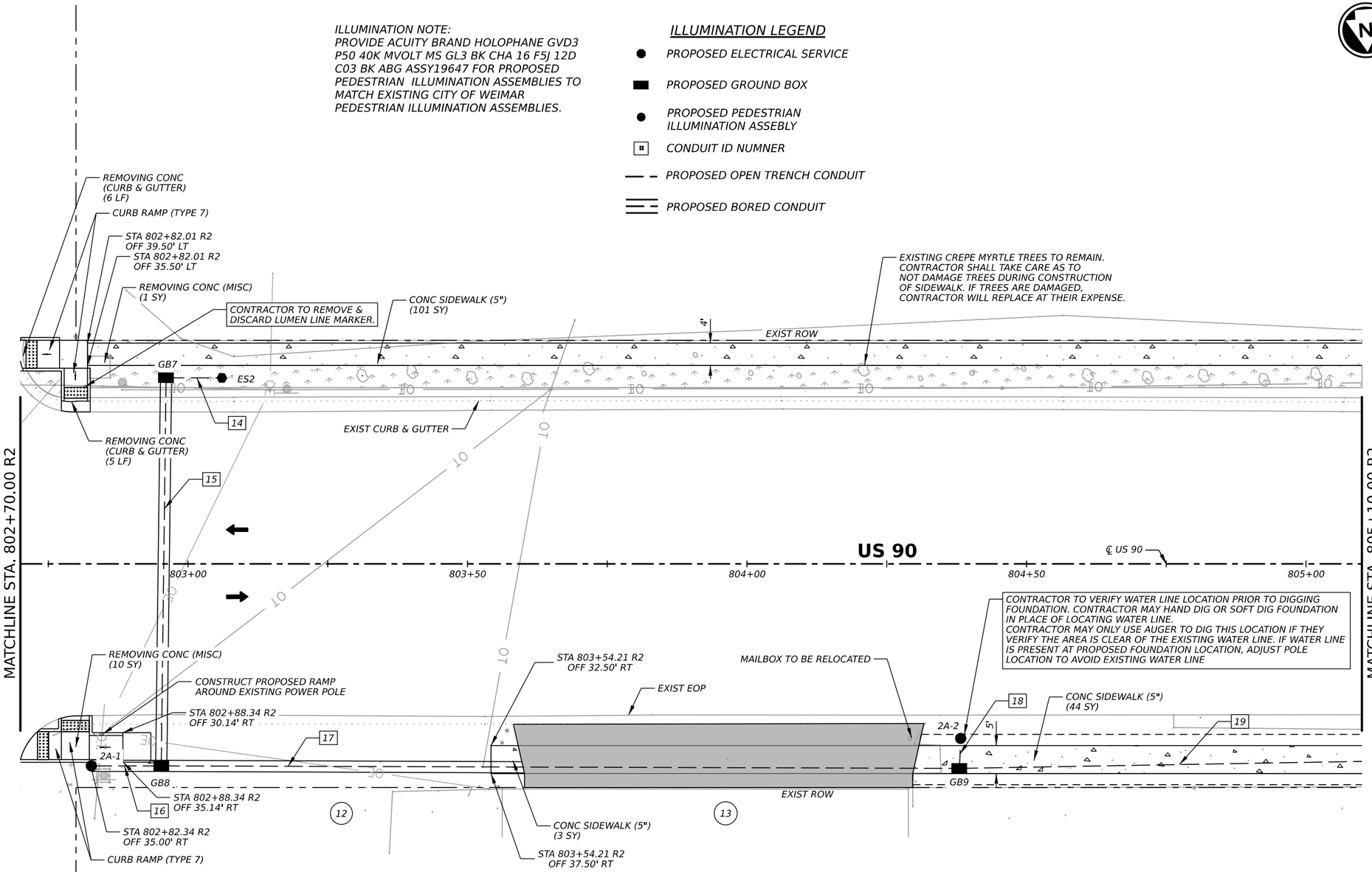
- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'



ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
ES2	803+06.07	33.28' LT
GB7	802+96.07	33.28' LT
GB8	802+95.22	36.14' RT
2A-1	802+82.70	36.14' RT
GB9	804+38.01	36.59' RT
2A-2	804+38.22	30.23' RT

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	12	LF
618-6046	CONDT (PVC) (SCH 80) (2")	250	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	148	LF
620-6004	ELEC CONDR (NO.12) INSULATED	120	LF
620-6006	ELEC CONDR (NO.10) INSULATED	1254	LF
624-6002	GROUND BOX TY A (122311)W/APRON	3	EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)	1	EA
6208-6001	PEDESTRIAN ILLUMINATION	2	EA

Elec. Service No.	Sheet No.	Electrical Service Description (see ED (4)- 00)	Service Conduit Size	Service Conductors No./Size	Safety Switch Amps	Main Ckt. Bkr. Pole/Amp	Two-Pole Contactor Amps	Panelbd/ Loadcenter Amp Rating	Circuit No.	Branch Ckt. Bkr. Pole/Amps	Branch Circuit Amps	KVA Load
ES2	11	ELEC SERV TY D(120/240)060(NS)AL(E)SP(U	1 1/2"	3/#6	N/A	2P/60	N/A	70	A	1P/20	6	0.7
									B	1P/20	SPARE	

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
14	10		20	3		60
15		70	80	3		240
16	15		25	3	75	
17	65	78	153	3		459
18	5		15	3	45	
19	155		165	3		495

STATE OF TEXAS
HUNTER T. KUTACH
151241
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 11 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		67

DATE: 6/4/2024 2:06:50 PM
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CK: DW: CK: DW:

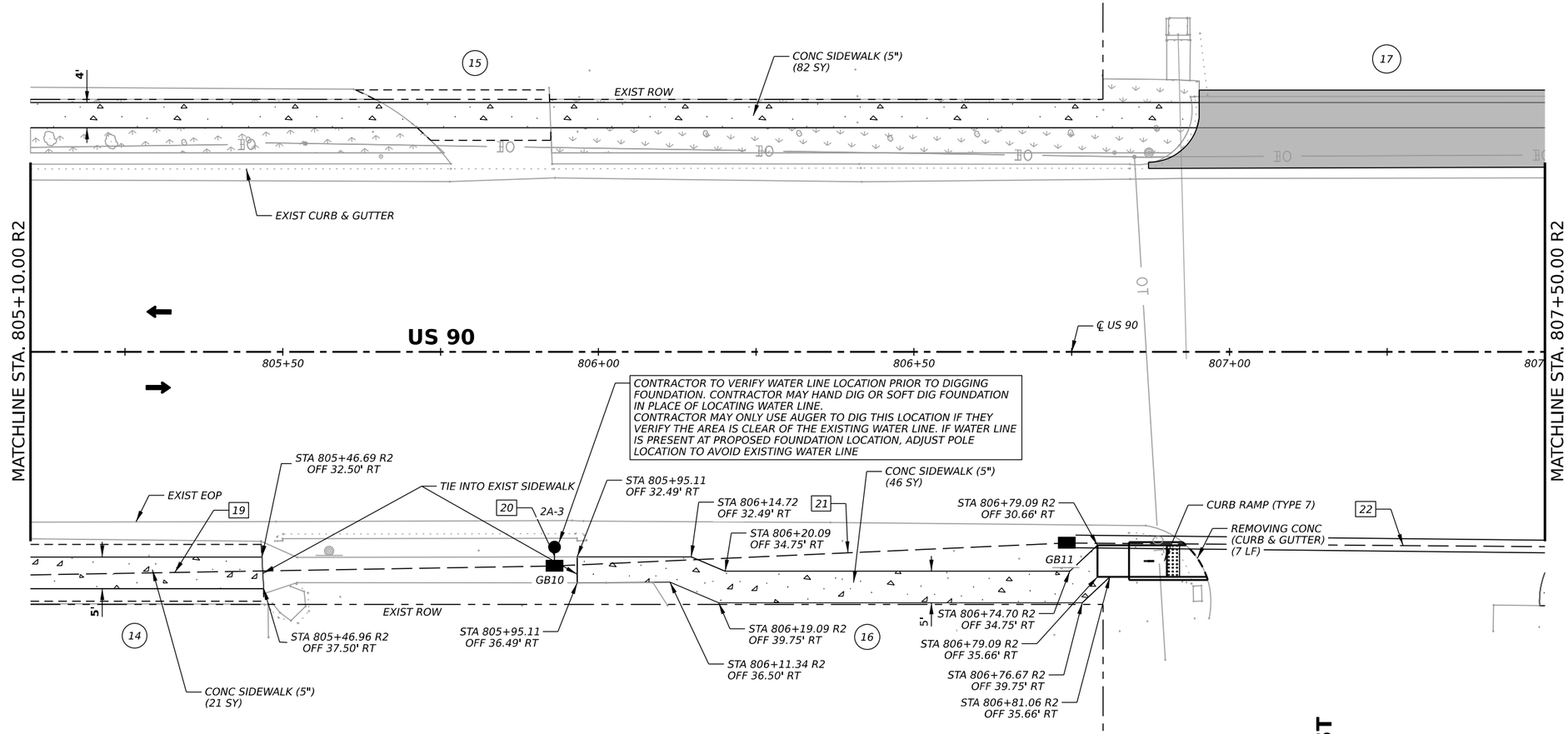
ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA



ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	6	LF
618-6046	CONDT (PVC) (SCH 80) (2")	85	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	85	LF
620-6004	ELEC CONDR (NO.12) INSULATED	600	LF
620-6006	ELEC CONDR (NO.10) INSULATED		LF
624-6002	GROUND BOX TY A (122311)W/APRON	2	EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)		EA
6208-6001	PEDESTRIAN ILLUMINATION	1	EA

ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
GB10	805+93.03	33.94' RT
2A-3	805+93.05	30.94' RT
GB11	806+74.24	30.28 RT

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
20	3		13	3	39	
21	82		92	3	276	
22		85	95	3	285	

NOTES:
1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 12 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		68

DATE: 6/4/2024 2:06:51 PM
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ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

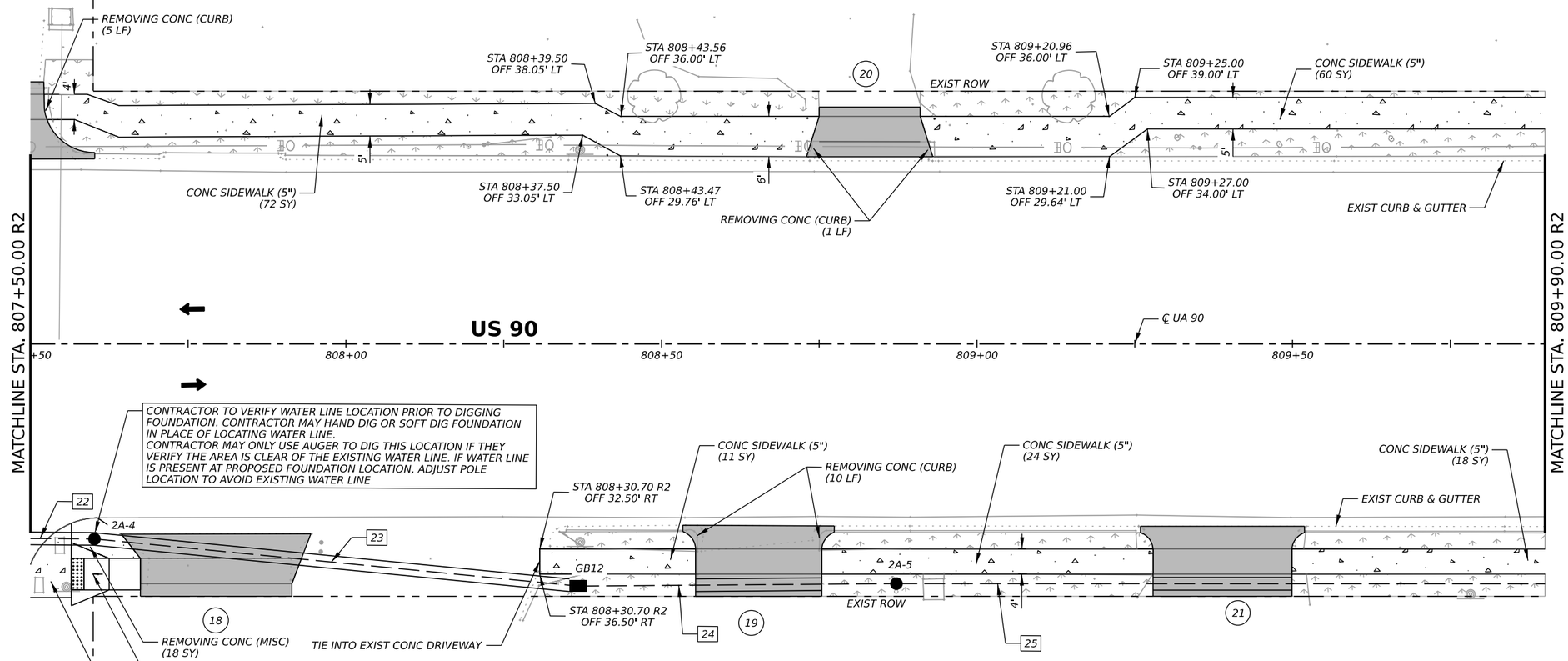
- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

SCALE: 1" = 20'



ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	12	LF
618-6046	CONDT (PVC) (SCH 80) (2")	196	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	78	LF
620-6004	ELEC CONDR (NO.12) INSULATED	912	LF
620-6006	ELEC CONDR (NO.10) INSULATED		LF
624-6002	GROUND BOX TY A (122311)W/APRON	1	EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)		EA
6208-6001	PEDESTRIAN ILLUMINATION	2	EA

ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
2A-4	807+60.15	30.94' RT
GB12	808+30.70	38.40' RT
2A-5	808+87.24	38.02' RT

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
23		78	88	3	264	
24	50		60	3	180	
25	146		156	3	468	

HUNTER T. KUTACH
151241
LICENSED
PROFESSIONAL ENGINEER
STATE OF TEXAS
6/4/2024

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Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 13 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		69

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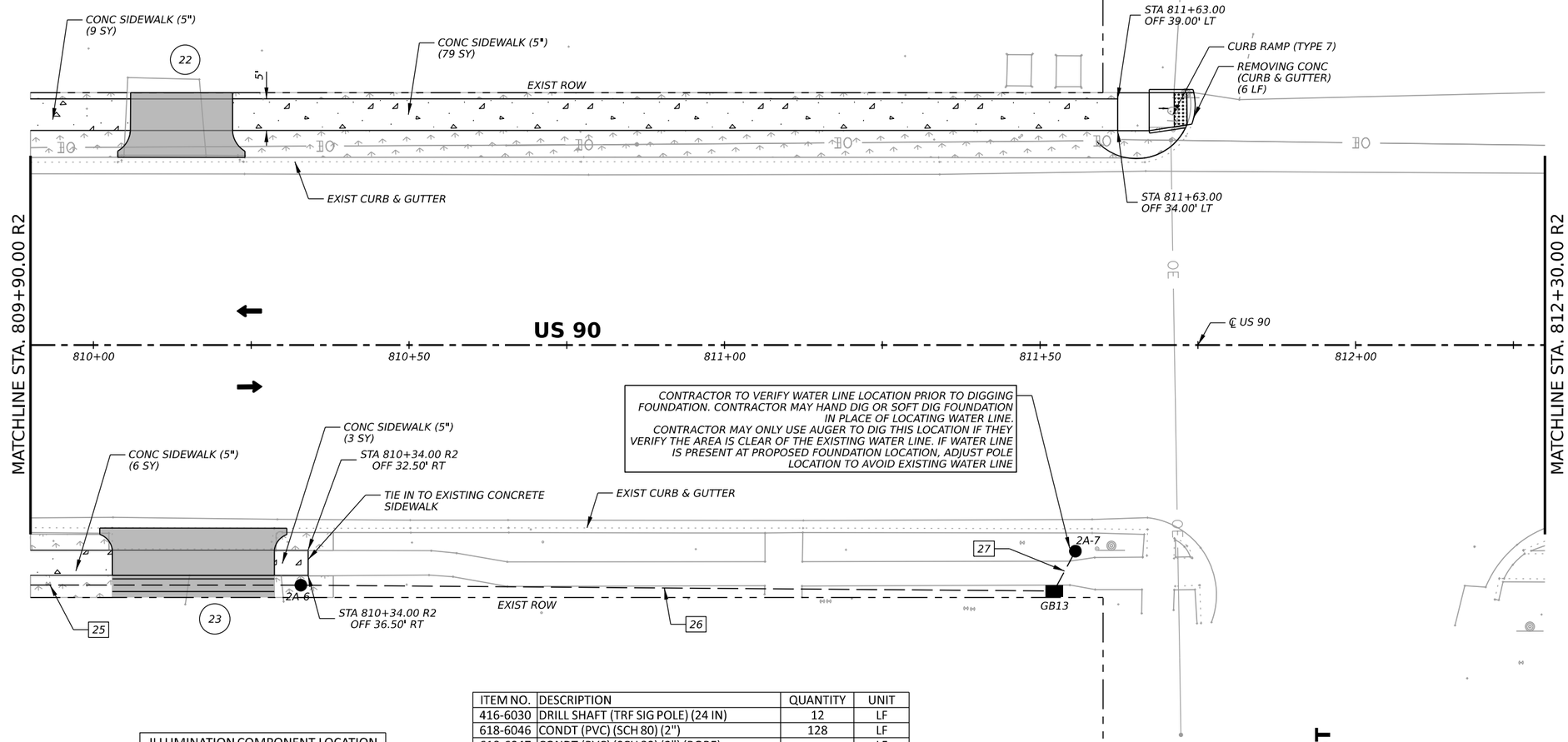
ILLUMINATION NOTE:
PROVIDE ACUITY BRAND HOLOPHANE GVD3 P50 40K MVOLT MS GL3 BK CHA 16 F5J 12D C03 BK ABG ASSY19647 FOR PROPOSED PEDESTRIAN ILLUMINATION ASSEMBLIES TO MATCH EXISTING CITY OF WEIMAR PEDESTRIAN ILLUMINATION ASSEMBLIES.

ILLUMINATION LEGEND

- PROPOSED ELECTRICAL SERVICE
- PROPOSED GROUND BOX
- PROPOSED PEDESTRIAN ILLUMINATION ASSEBLY
- CONDUIT ID NUMNER
- PROPOSED OPEN TRENCH CONDUIT
- PROPOSED BORED CONDUIT



ILLUMINATION COMPONENT LOCATION		
ID NO.	STATION	OFFSET
2A-6	810+32.85	38.06' RT
GB13	811+52.20	38.98' RT
2A-7	811+55.60	32.67' RT

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
416-6030	DRILL SHAFT (TRF SIG POLE) (24 IN)	12	LF
618-6046	CONDT (PVC) (SCH 80) (2")	128	LF
618-6047	CONDT (PVC) (SCH 80) (2") (BORE)		LF
620-6004	ELEC CONDR (NO.12) INSULATED	444	LF
620-6006	ELEC CONDR (NO.10) INSULATED		LF
624-6002	GROUND BOX TY A (122311)W/APRON	1	EA
628-6117	ELC SRV TY D 120/240 060(NS)AL(E)SP(U)		EA
6208-6001	PEDESTRIAN ILLUMINATION	2	EA

	618-6046	618-6047	wire length per conductor	# of conductors	620-6004	620-6006
Conduit Run #	CONDT (PVC) (SCH 80) (2")	CONDT (PVC) (SCH 80) (2") (BORE)			ELEC CONDR (NO.12) INSULATE	ELEC CONDR (NO.10) INSULATED
26	120		130	3	390	
27	8		18	3	54	

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
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0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
HUNTER T. KUTACH
151241
LICENSED
PROFESSIONAL ENGINEER
6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 14 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		70

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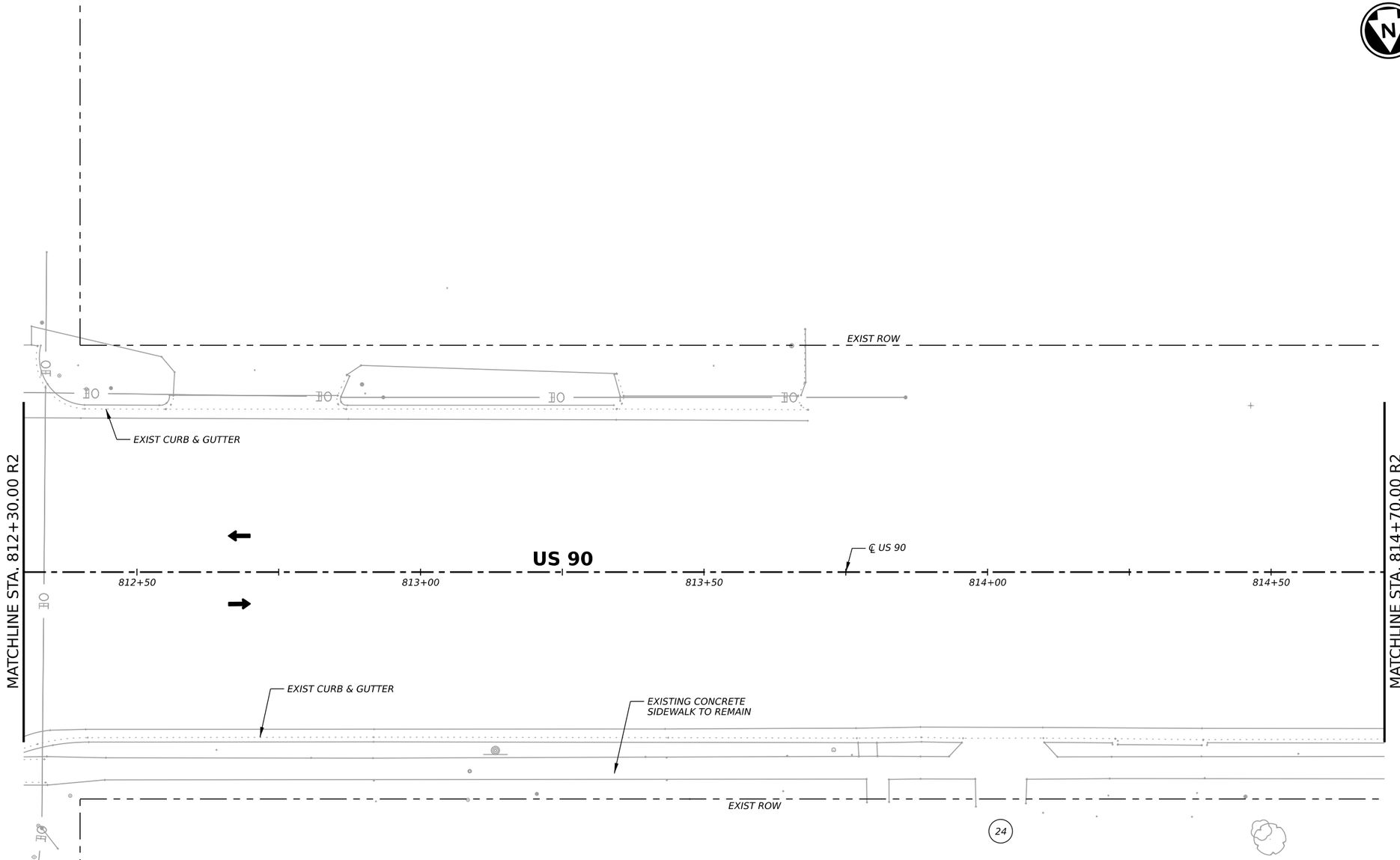

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. NO PROPOSED WORK ON THIS SHEET.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 15 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, etc.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		71

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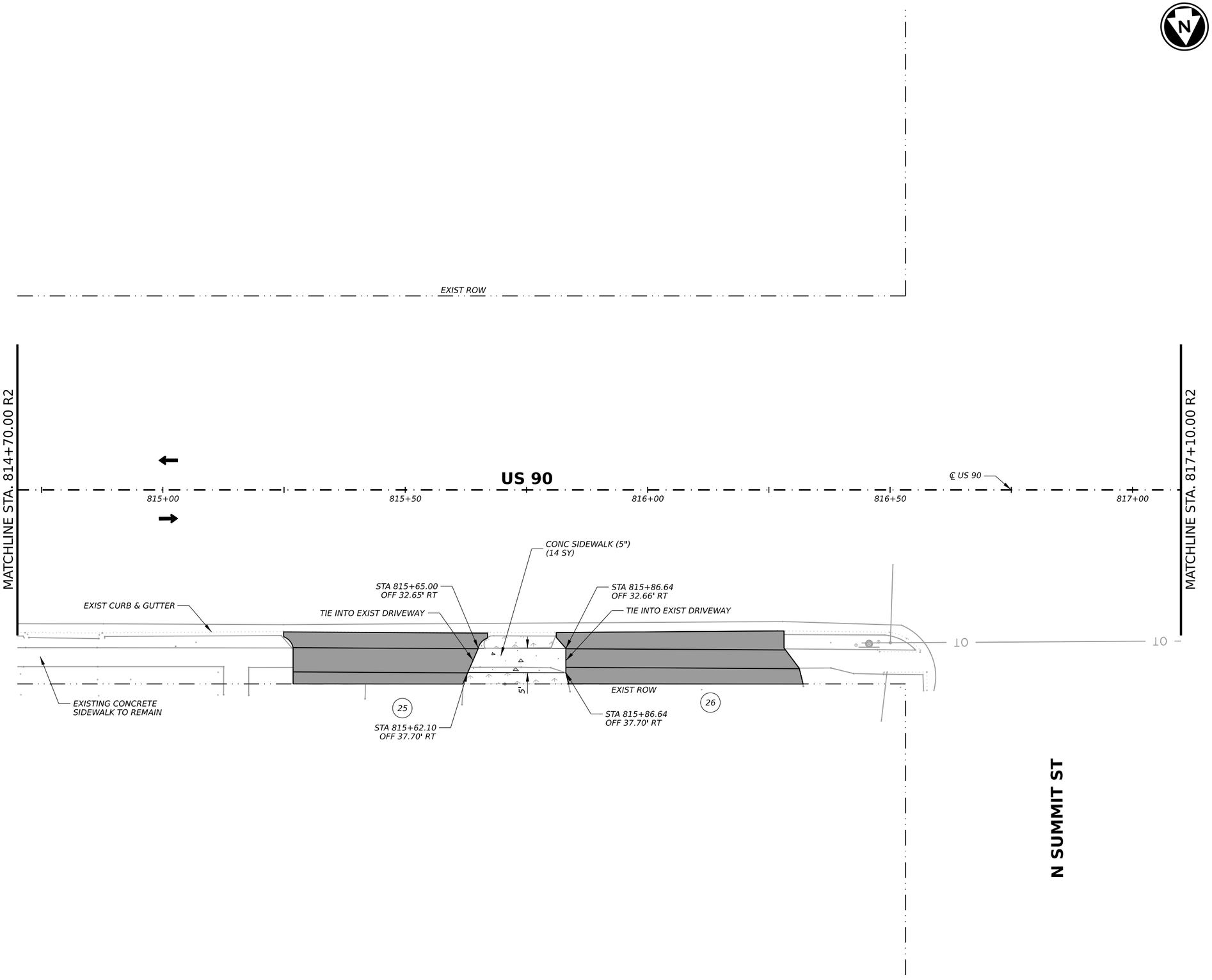

LEGEND

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0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
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6/5/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 16 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		72

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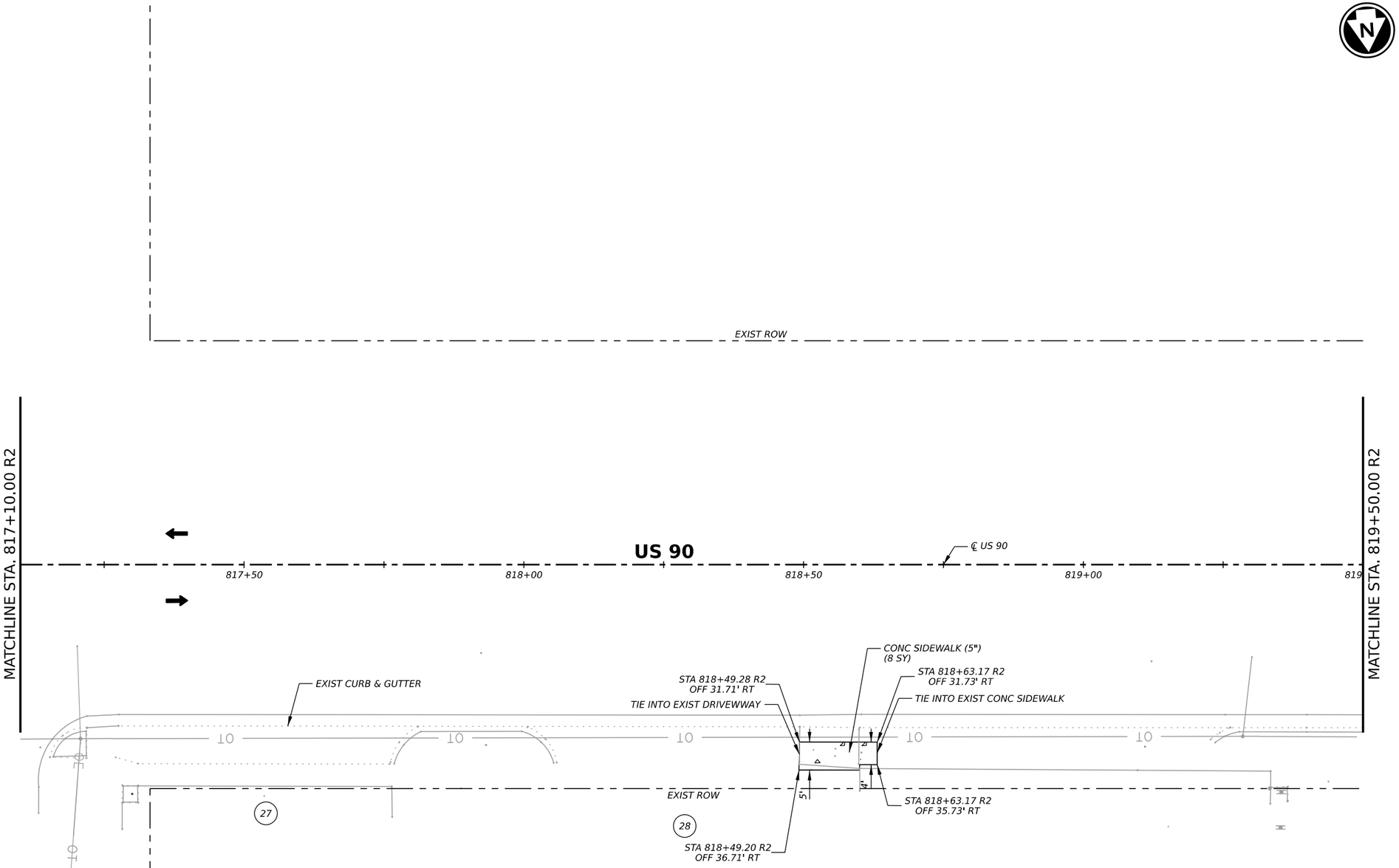

LEGEND

- DIRECTION OF TRAFFIC
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0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 17 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		73

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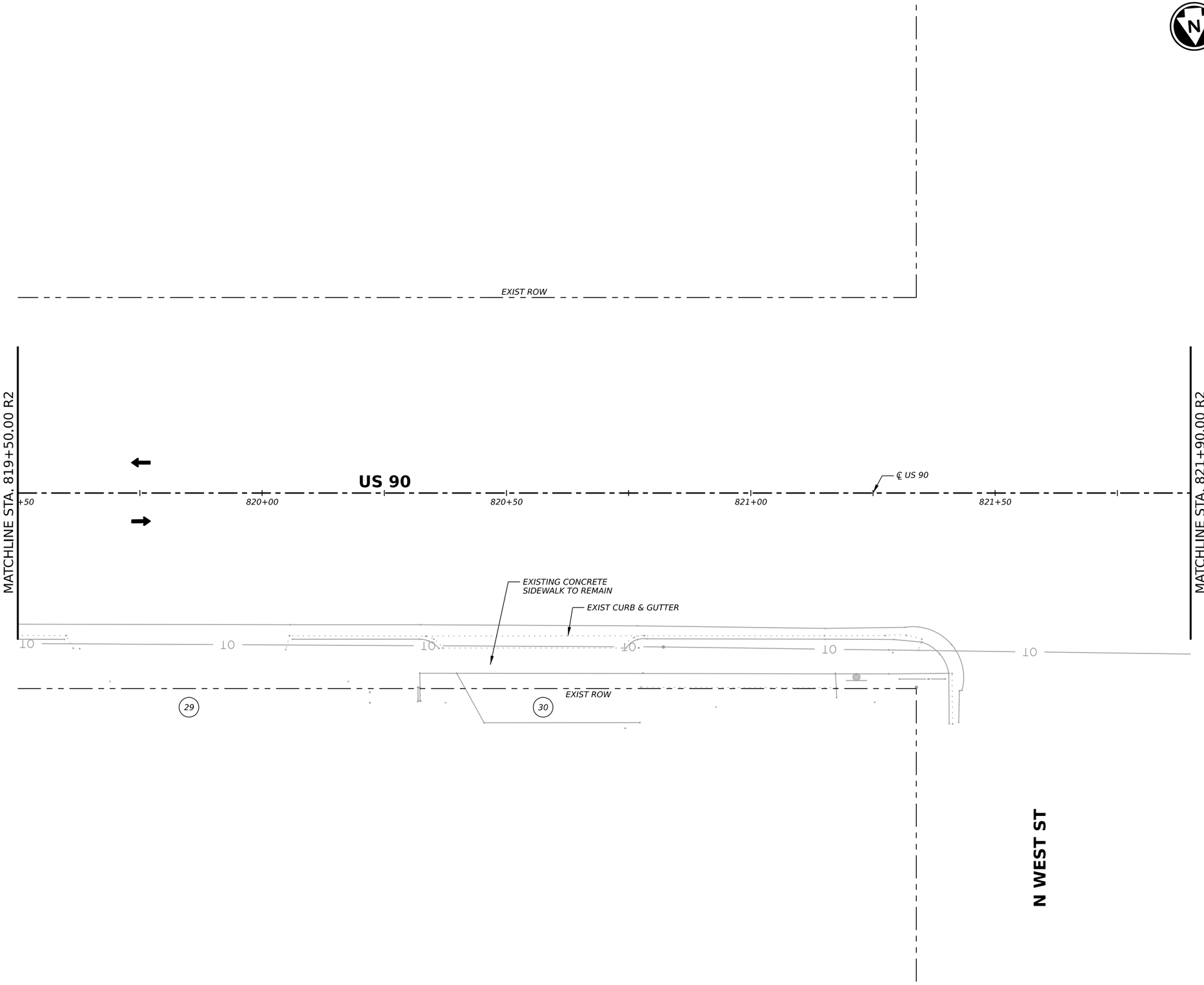

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LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. NO PROPOSED WORK ON THIS SHEET.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 90 WEIMAR
CSJ: 0026-04-048

SHEET 18 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		74

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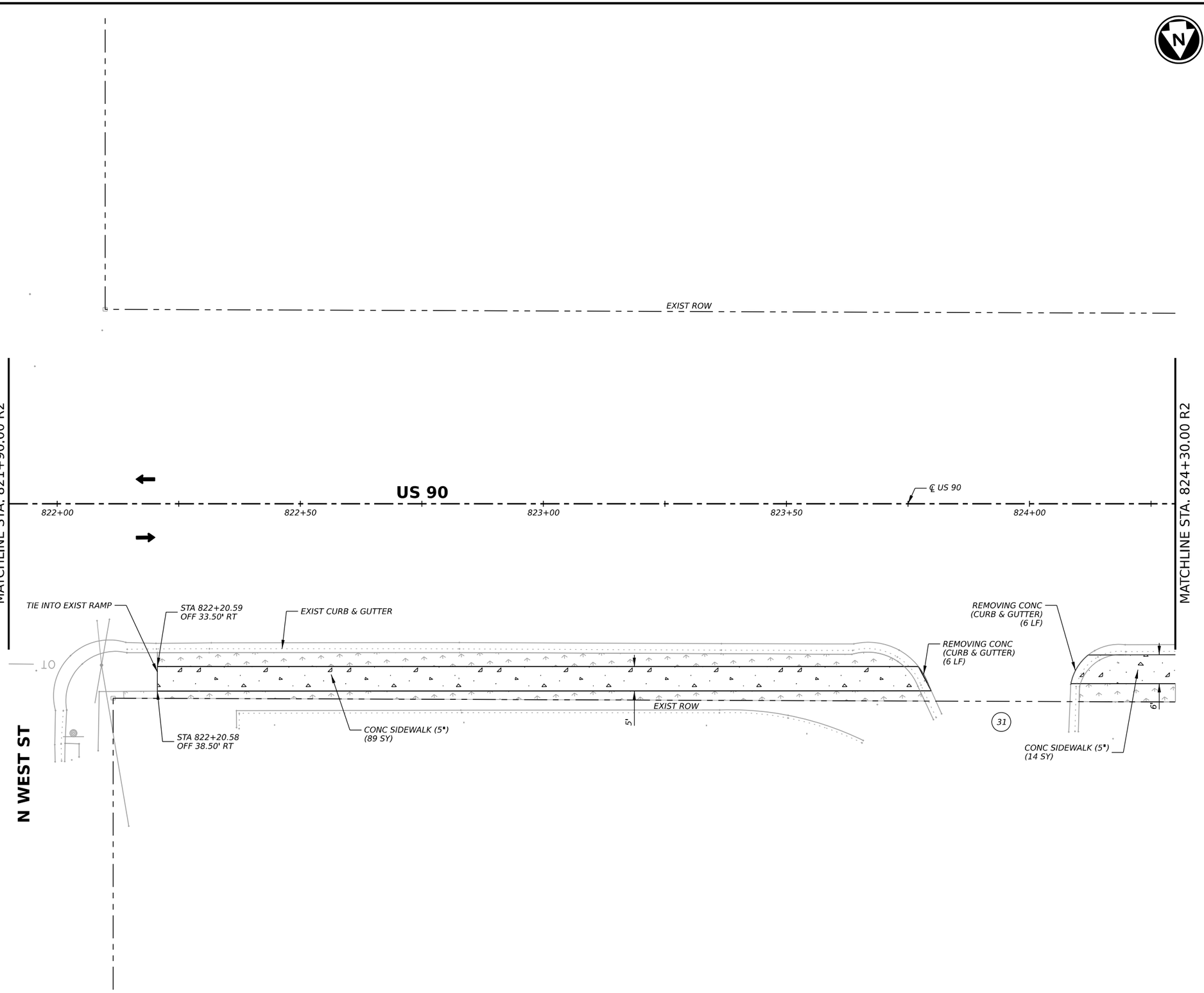

LEGEND

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0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 19 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		75

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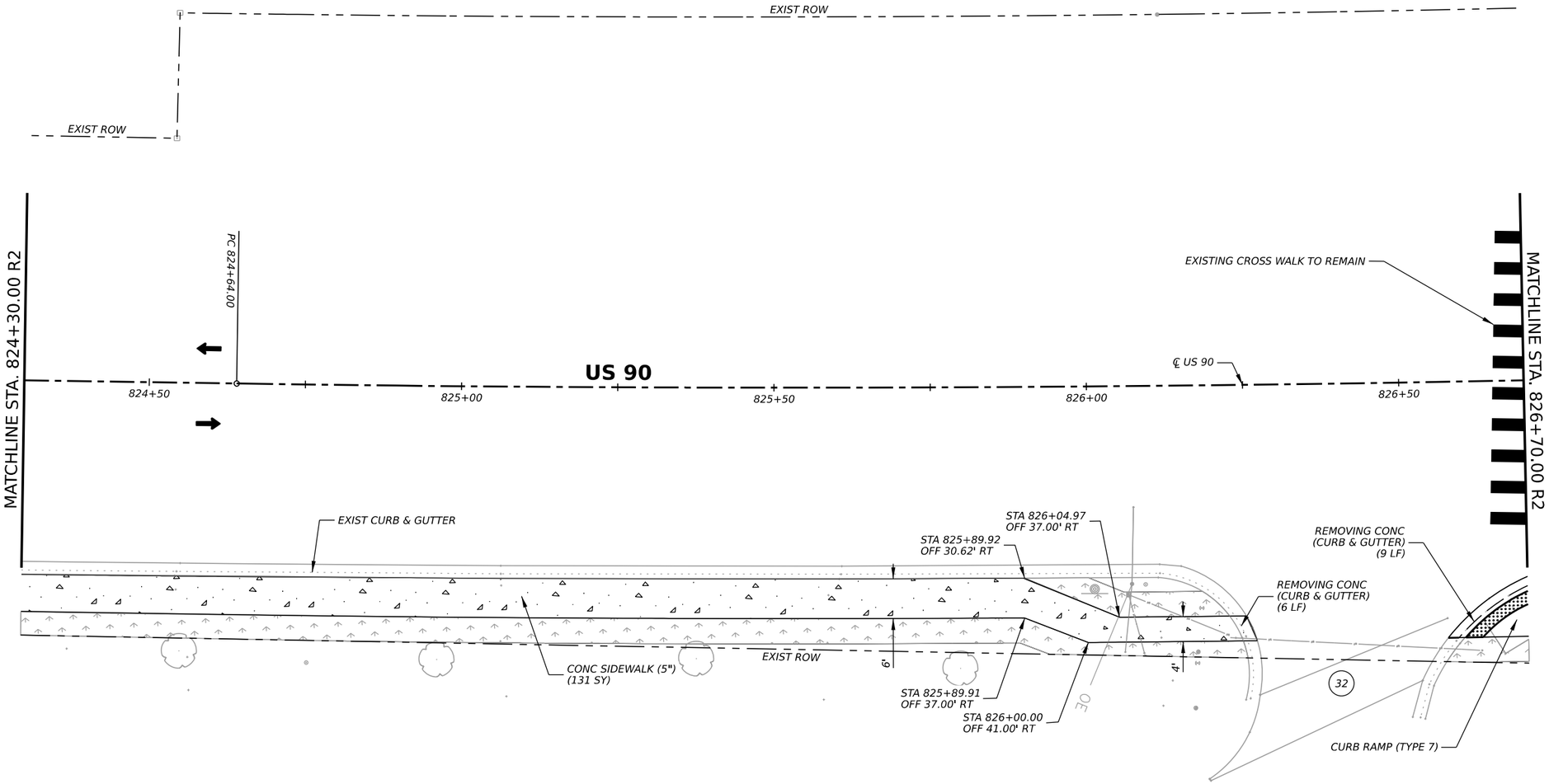

LEGEND

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STATE OF TEXAS
ANGELA K. RENGER
102350
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Angela Renger
6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 20 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		76

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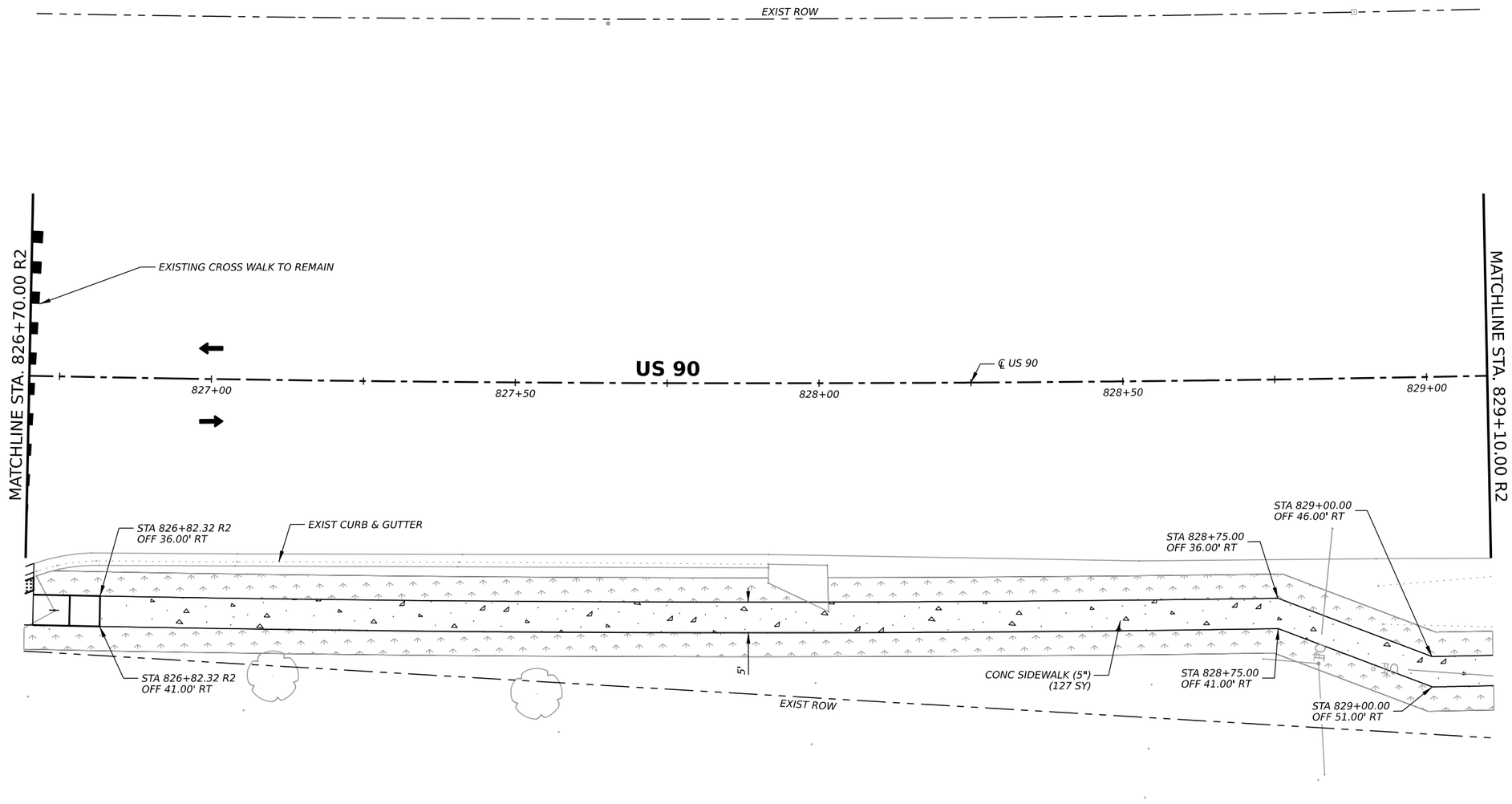

LEGEND

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- DRIVEWAY (PROP RECONSTRUCTION)
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- CUT AND RESTORE SURFACE
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0 10 20
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6/4/2024

BGE, Inc.
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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 21 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		77

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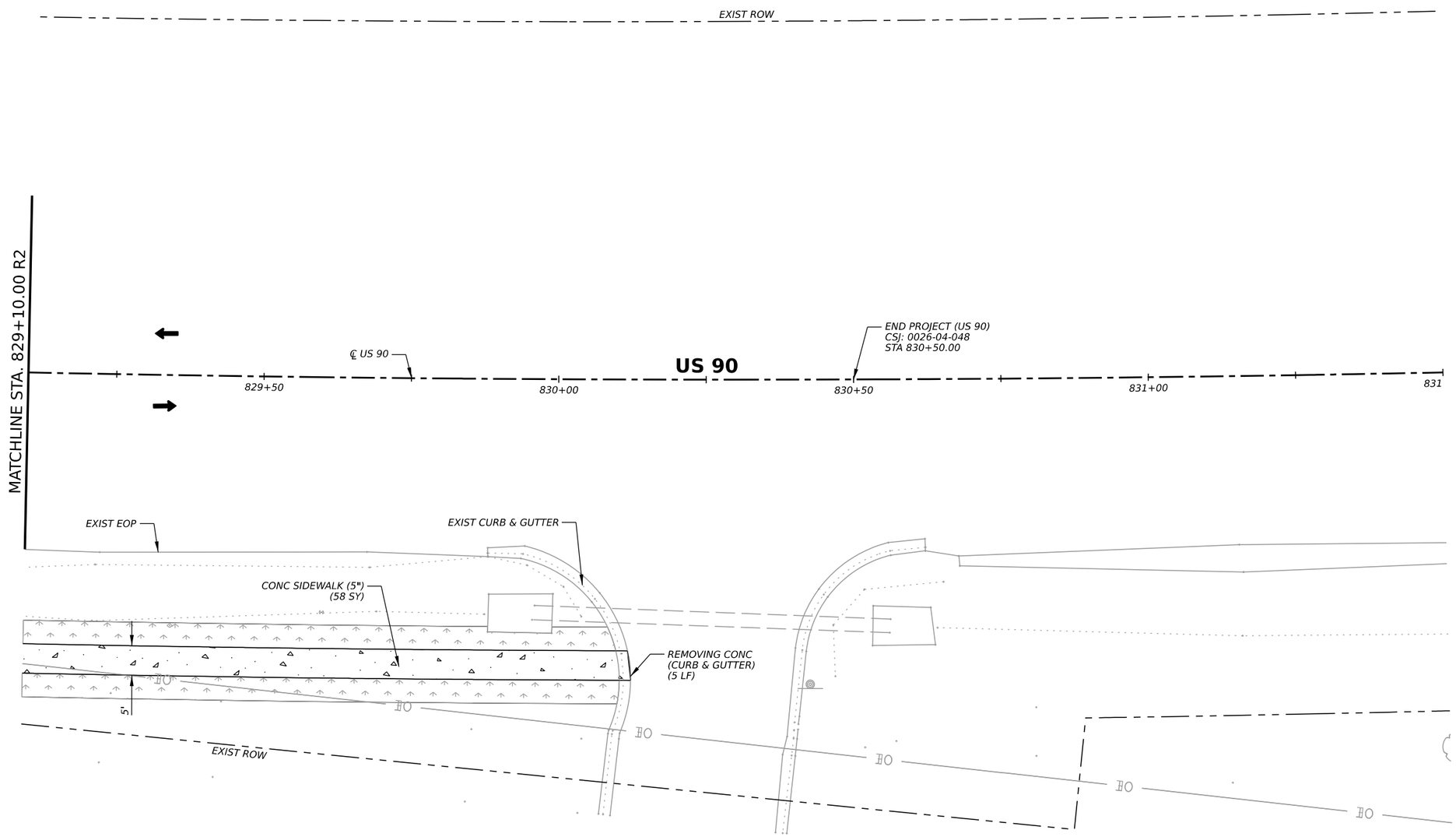

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 90 WEIMAR CSJ: 0026-04-048

SHEET 22 OF 22

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		78

DATE: 6/4/2024 6:35:15 PM
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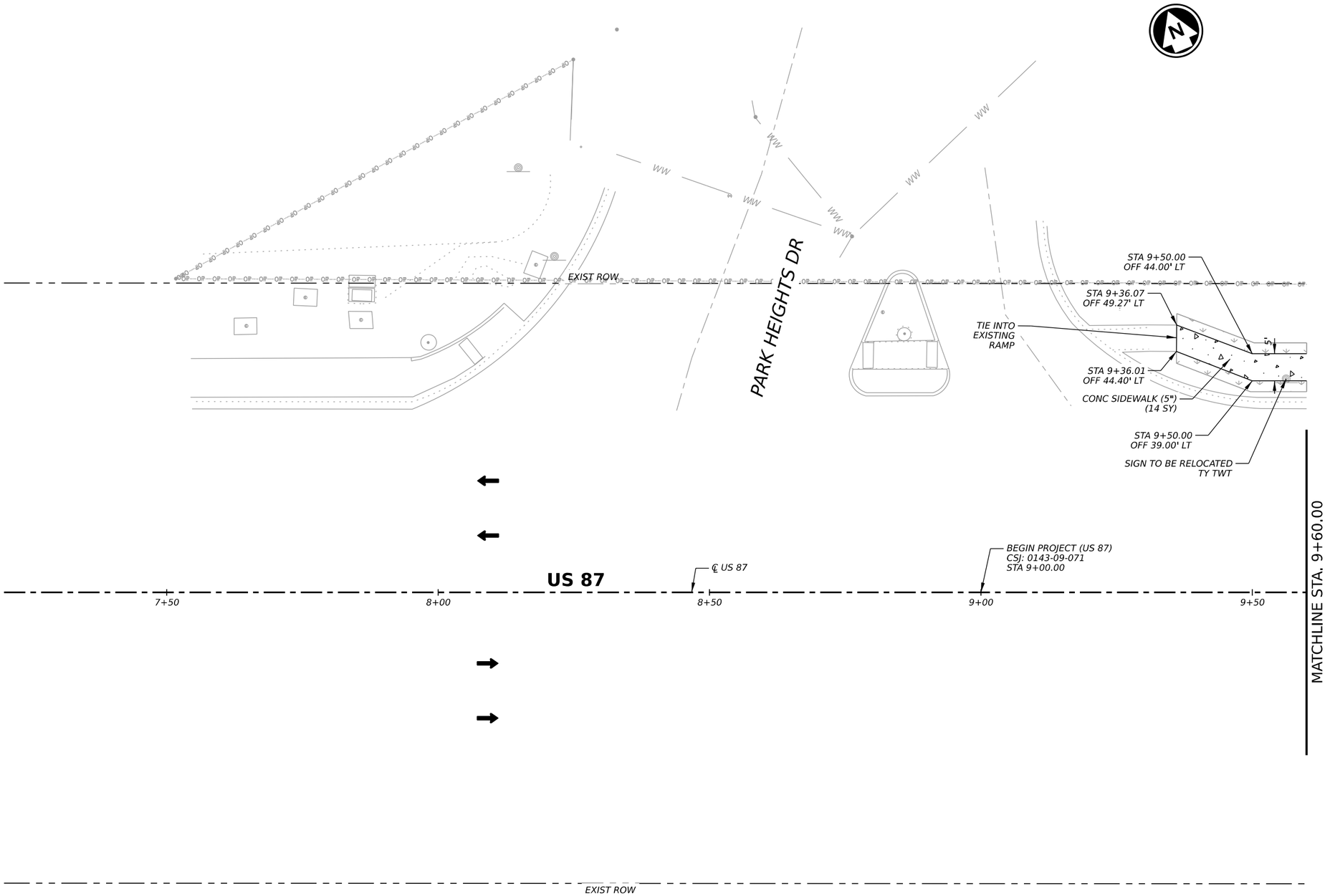

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 1 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		79

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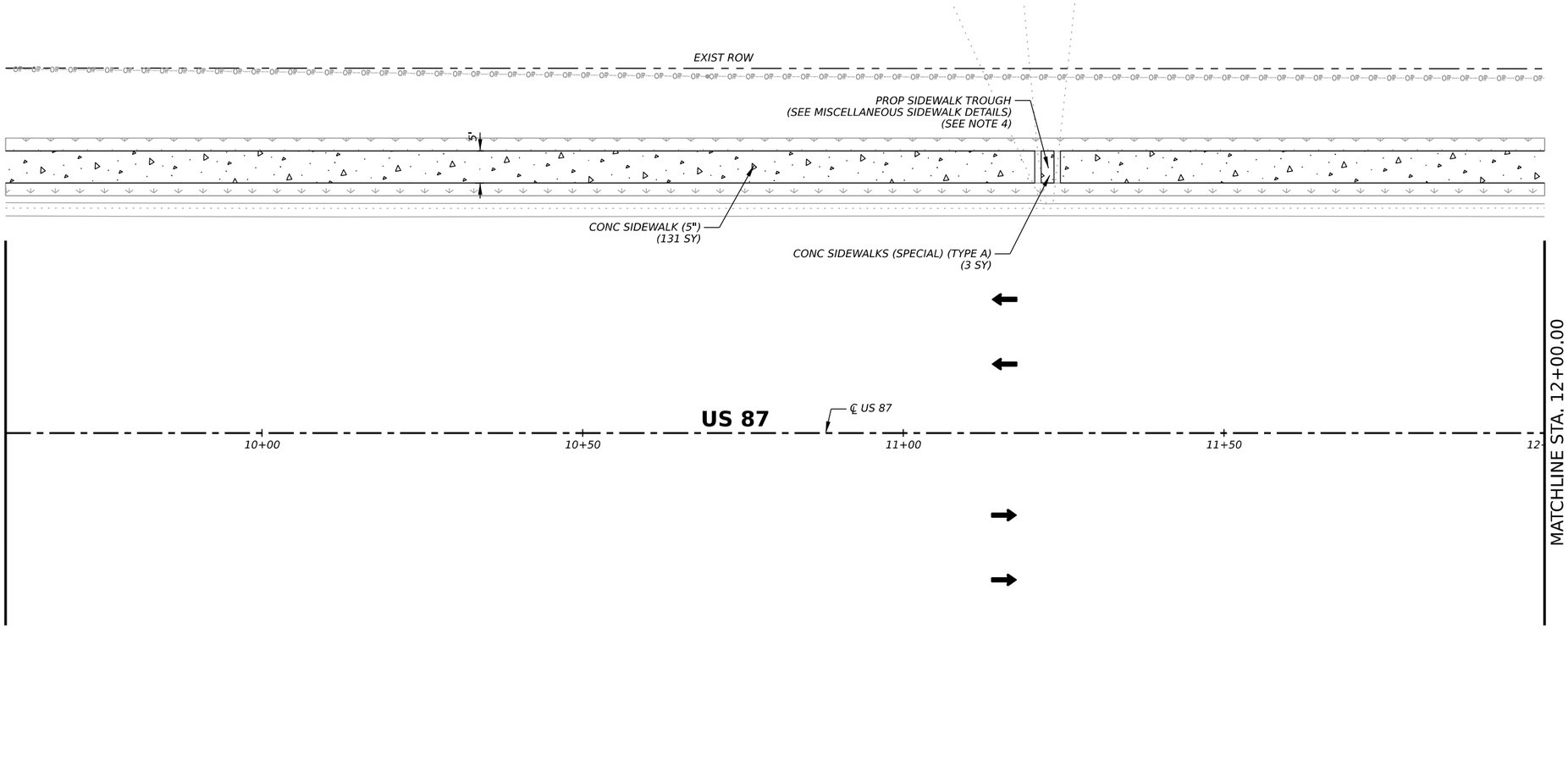

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 2 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		80

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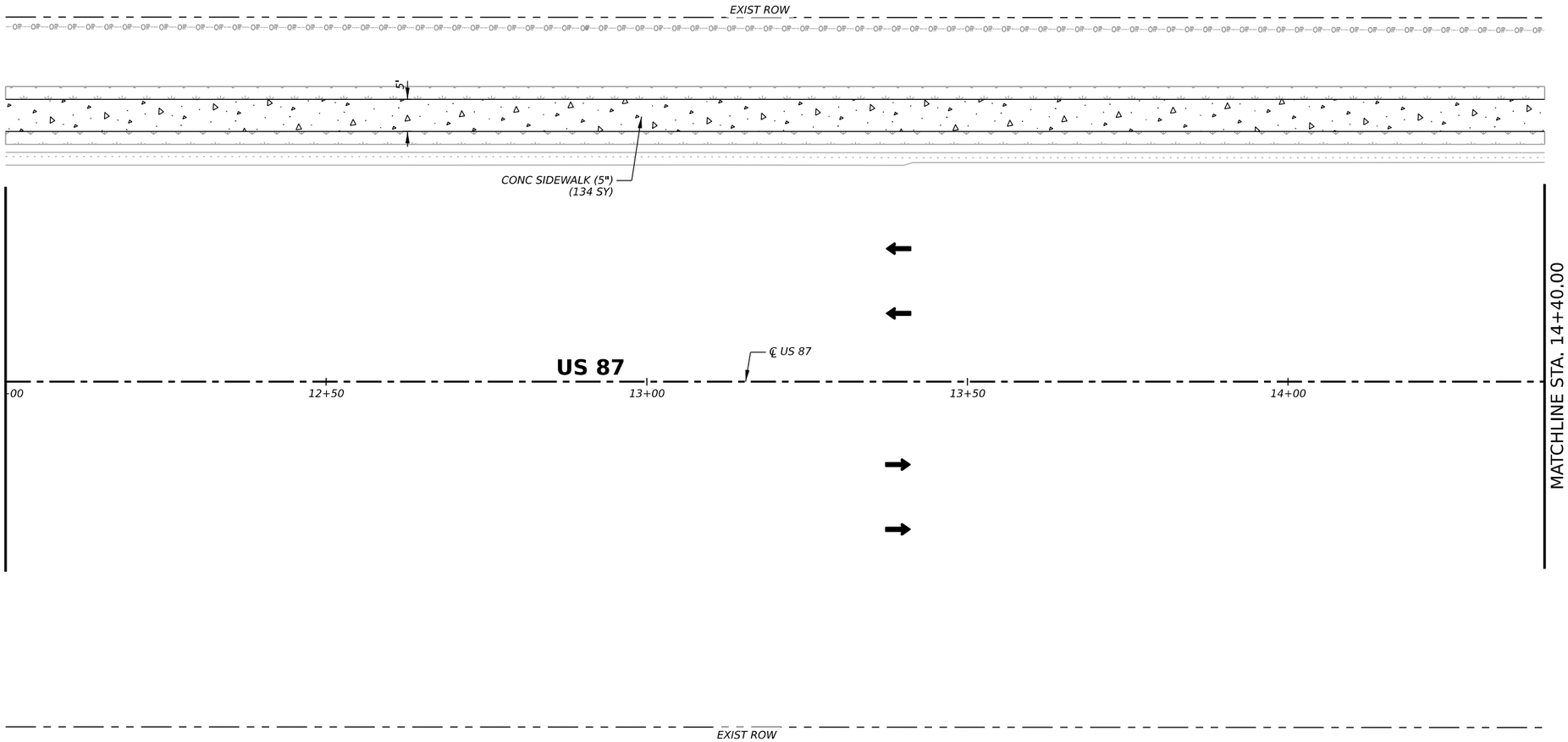

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 3 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		81

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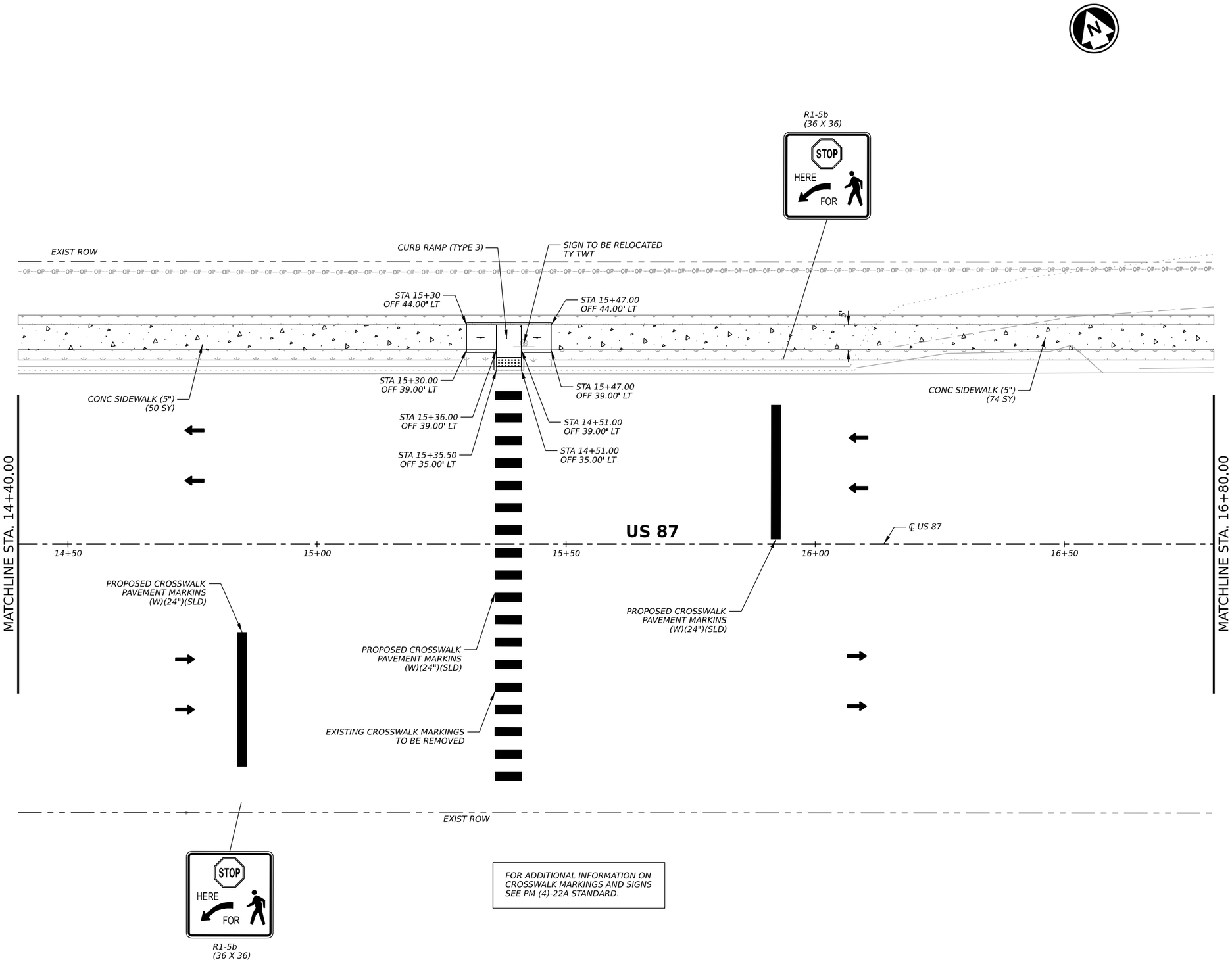

FOR ADDITIONAL INFORMATION ON CROSSWALK MARKINGS AND SIGNS SEE PM (4)-22A STANDARD.

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 4 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		82

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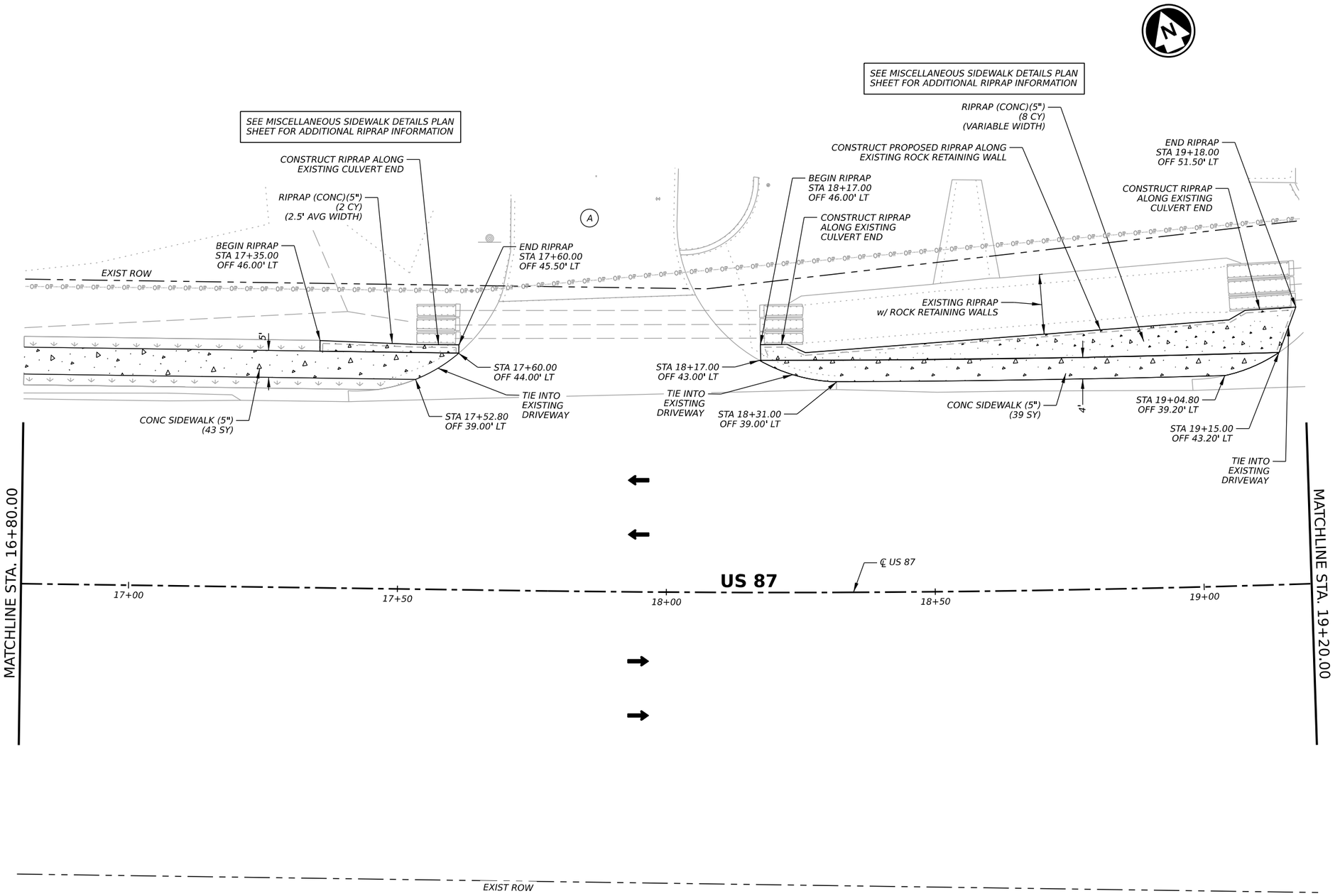

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK / RIPRAP
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
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102350
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 5 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		83

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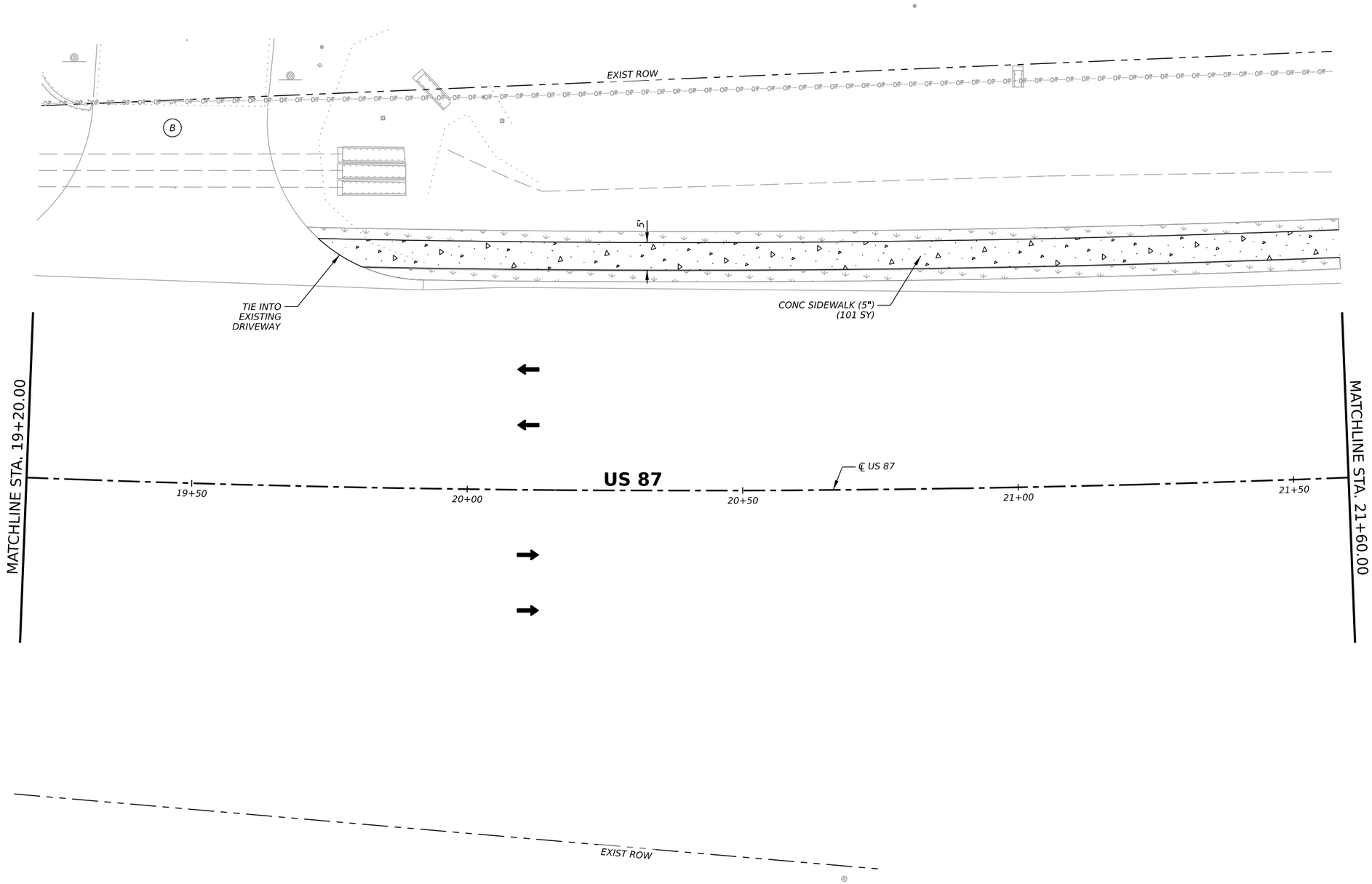

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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0 10 20

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STATE OF TEXAS
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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 6 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		84

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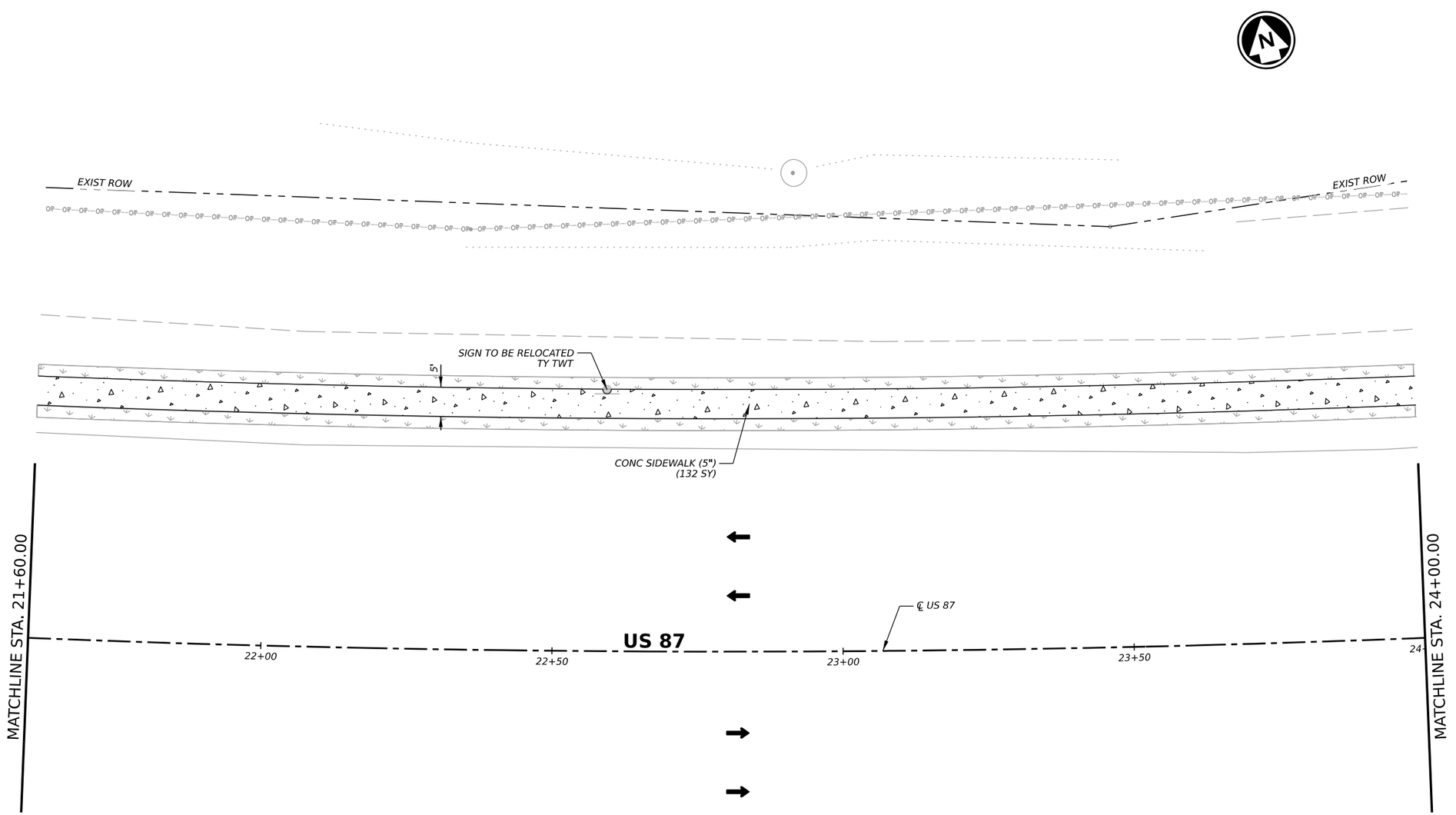

LEGEND

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- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 7 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		85

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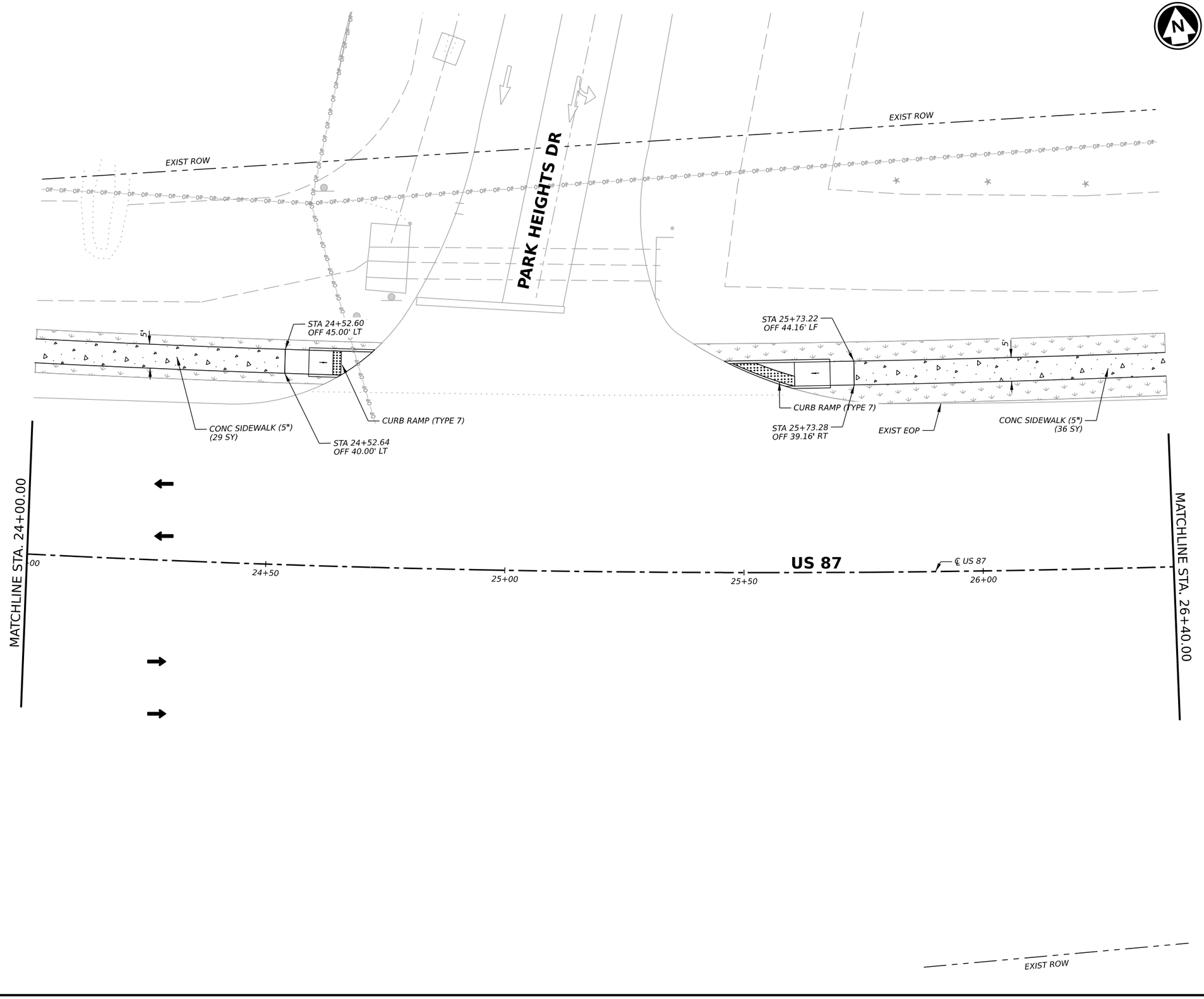

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 8 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.

DIST	COUNTY	SHEET NO.
YKM	COLORADO, ETC.	86

DATE: 6/4/2024 6:35:36 PM
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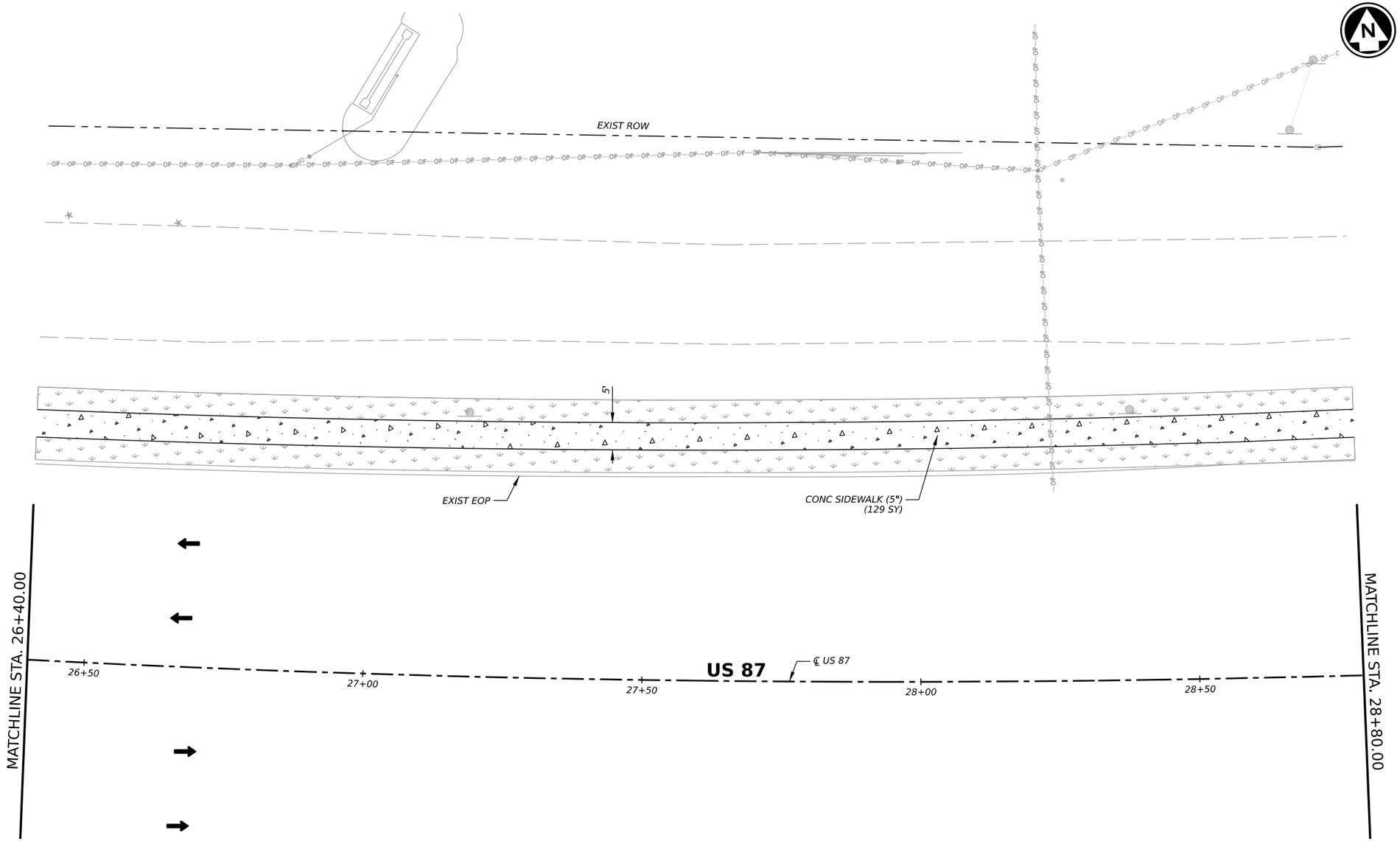

LEGEND

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- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
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5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 9 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		87

DATE: 6/4/2024 6:35:37 PM
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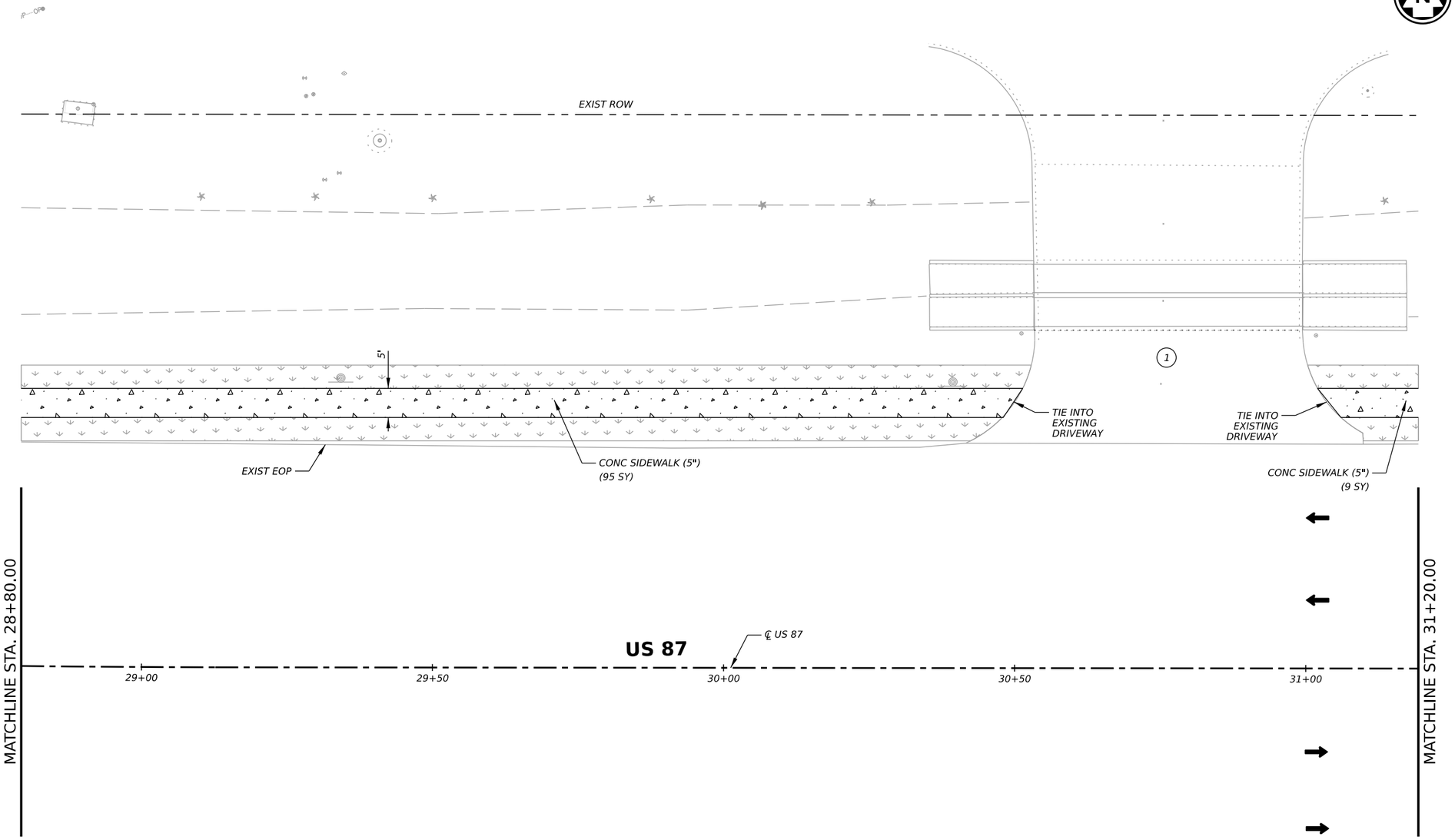

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 10 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		88

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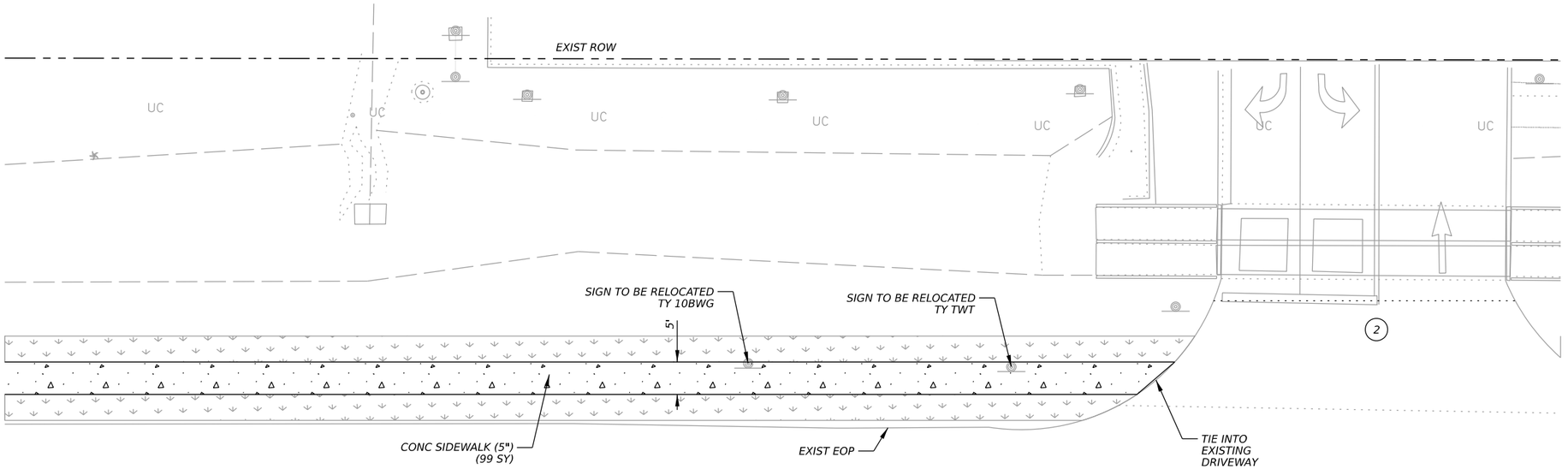

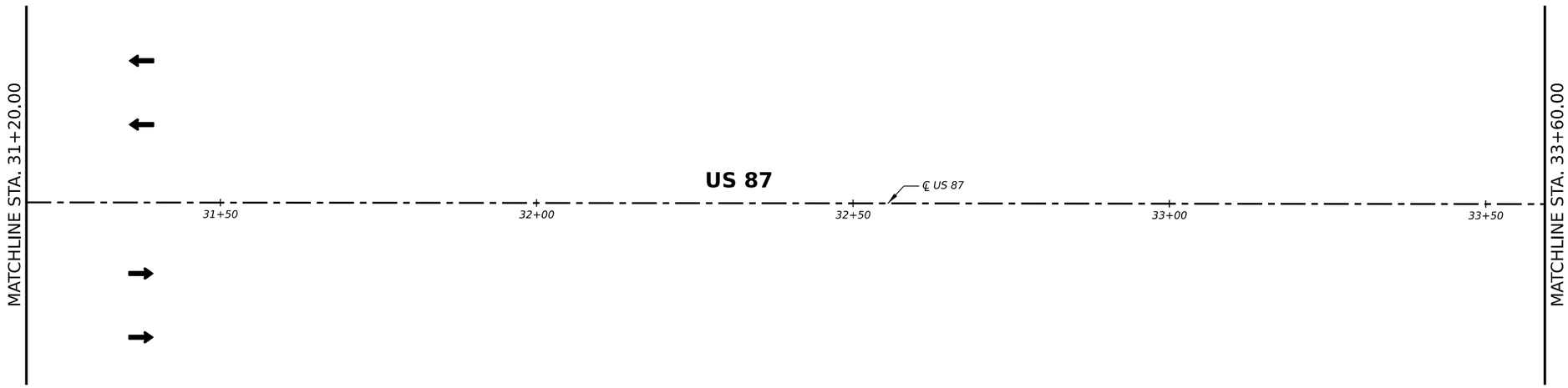

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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SCALE: 1" = 20'

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 11 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		89

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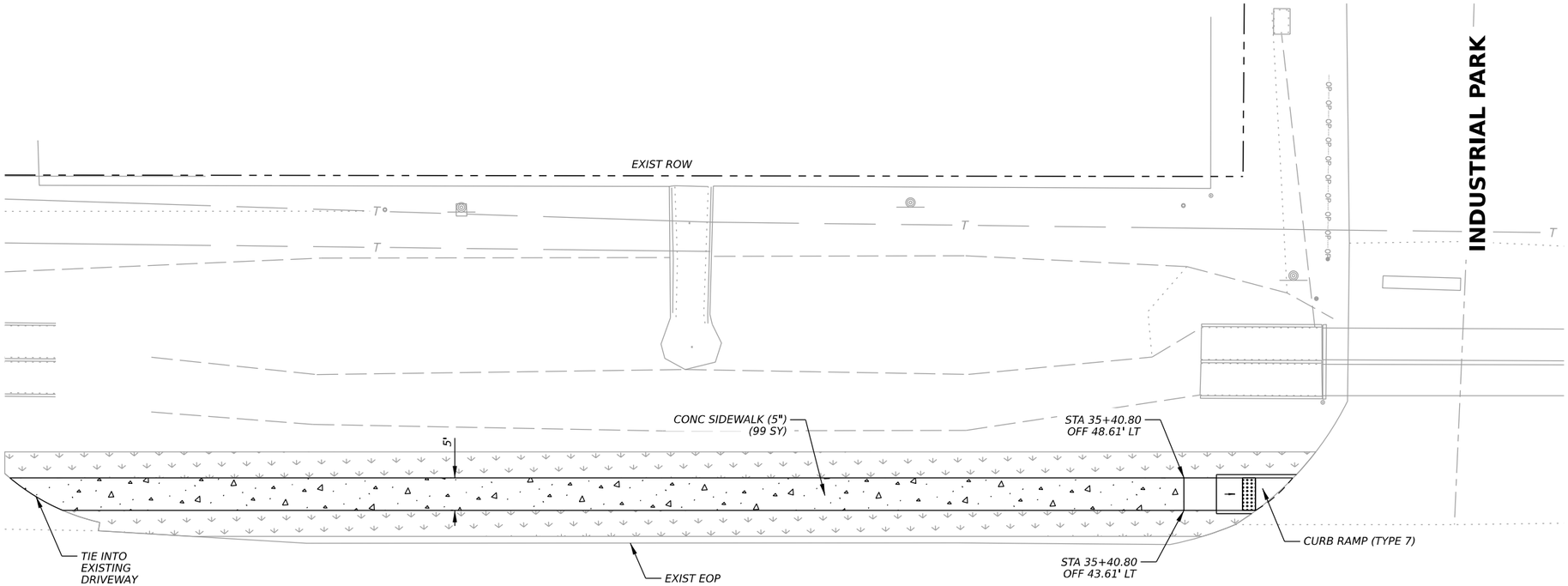

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 12 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		90

DATE: 6/4/2024 6:35:41 PM
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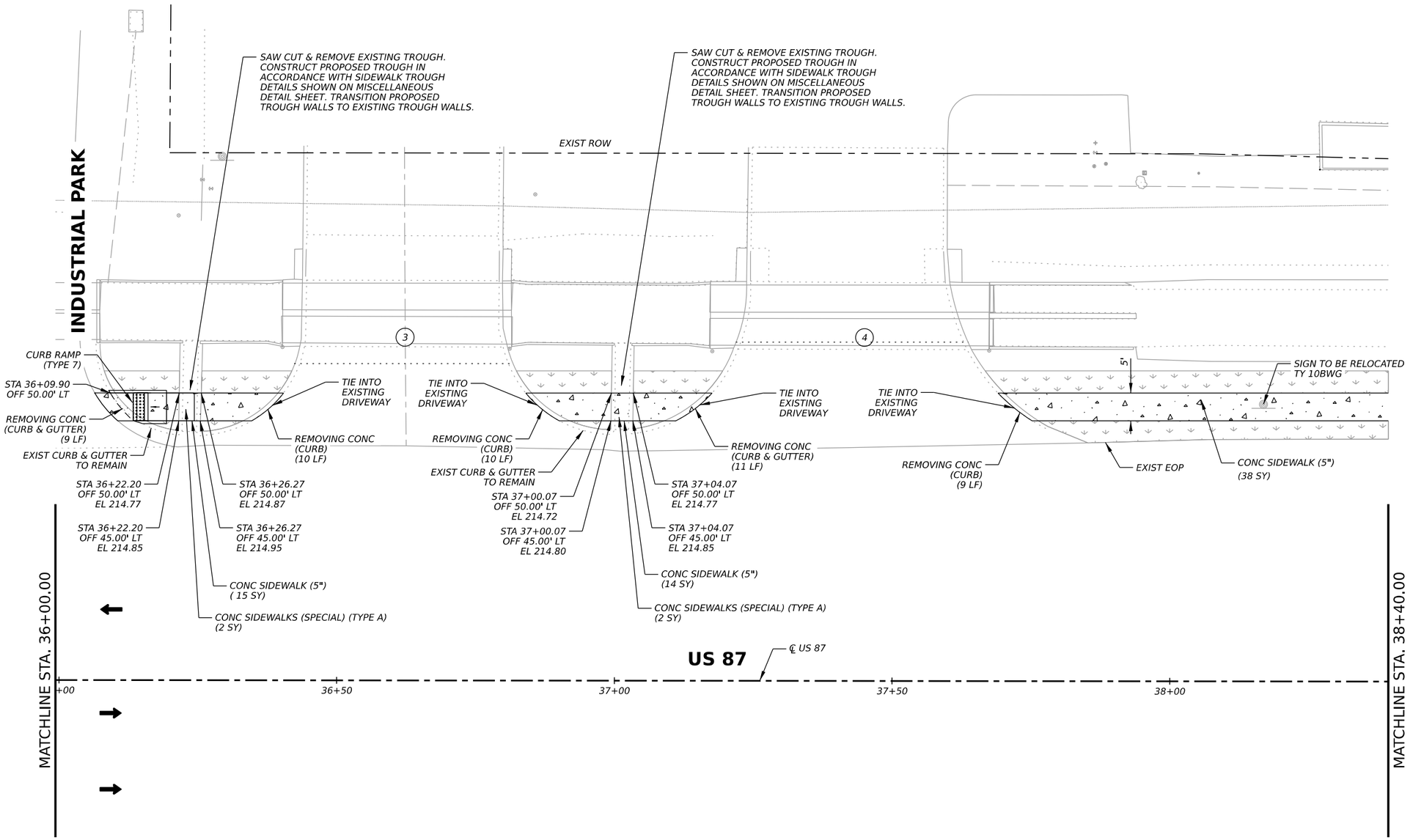

LEGEND

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- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 13 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		91

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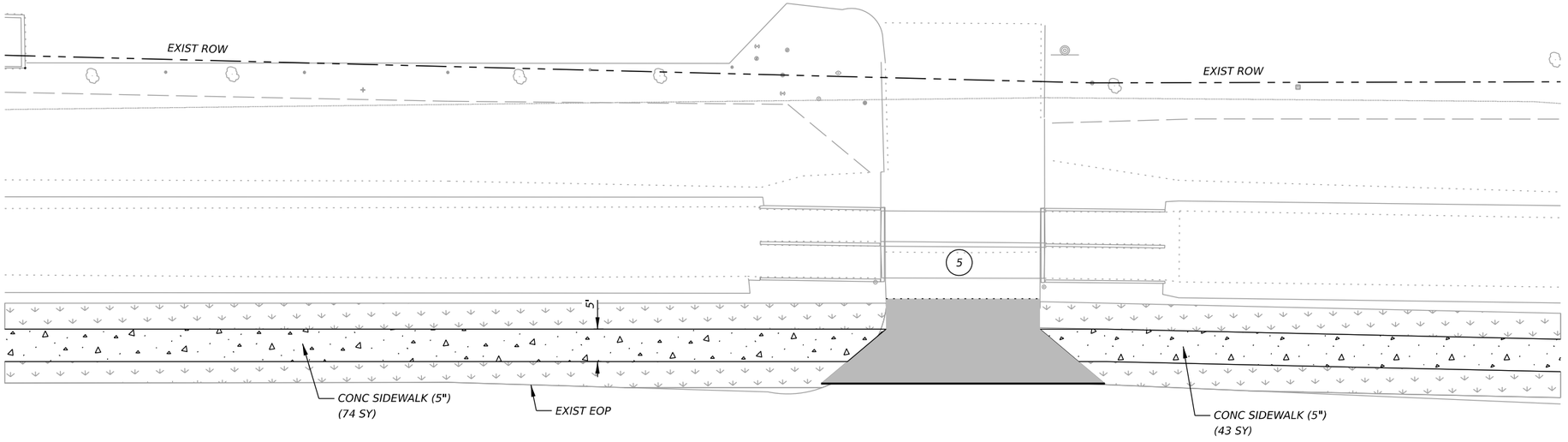

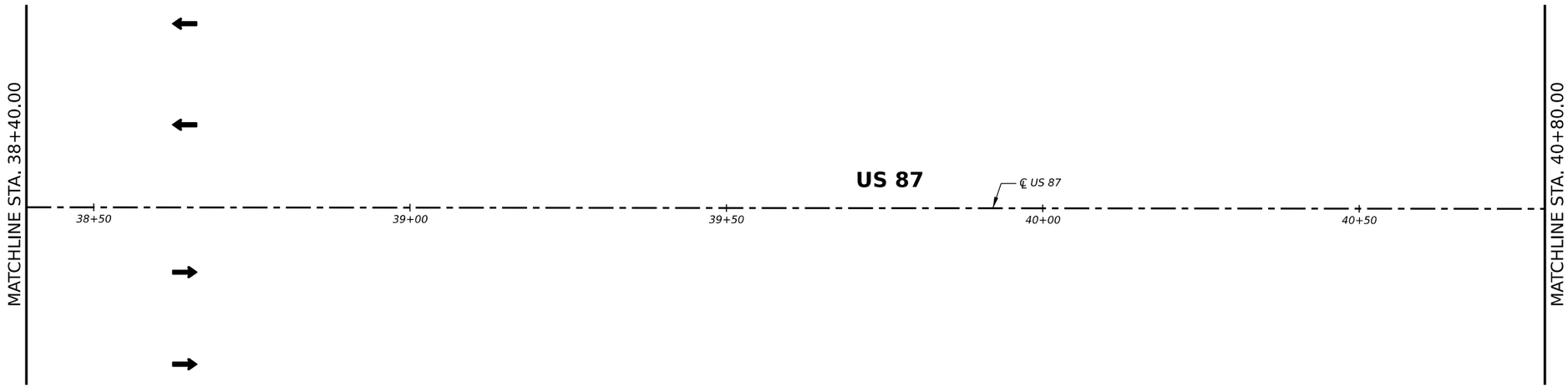

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 14 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		92

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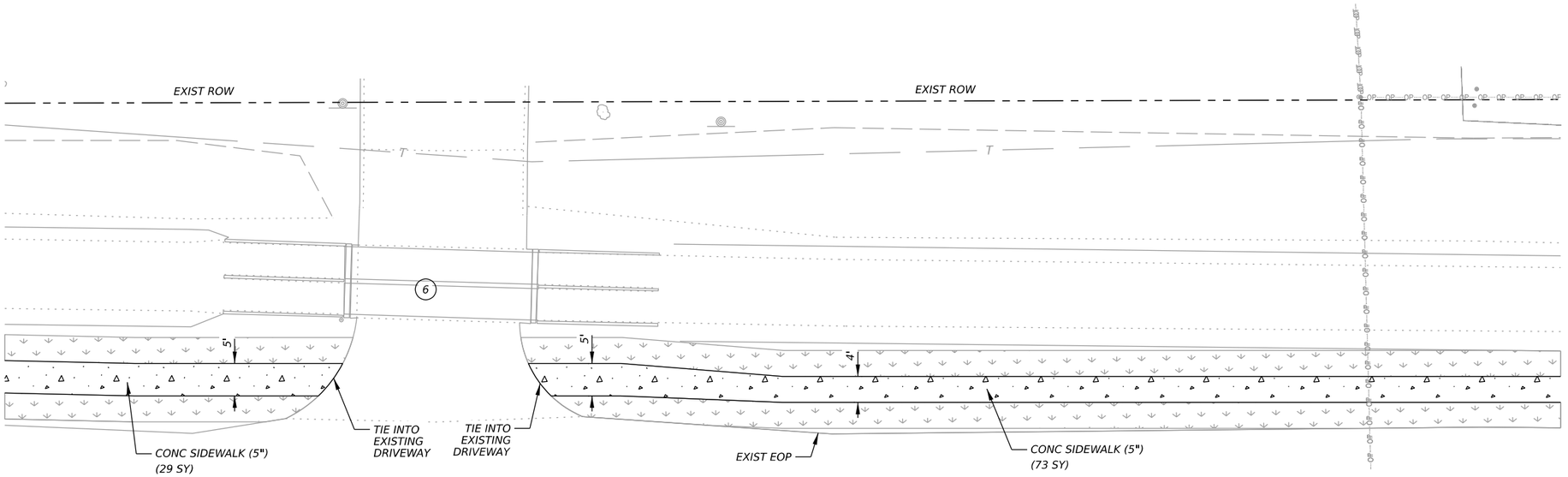

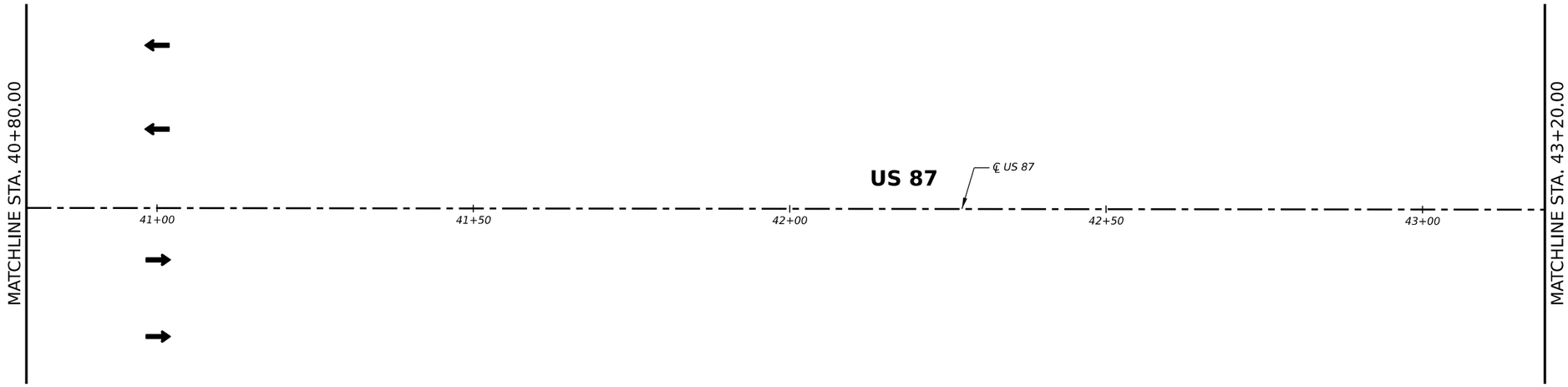

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- REMOVAL (CONCRETE)
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SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 15 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		93

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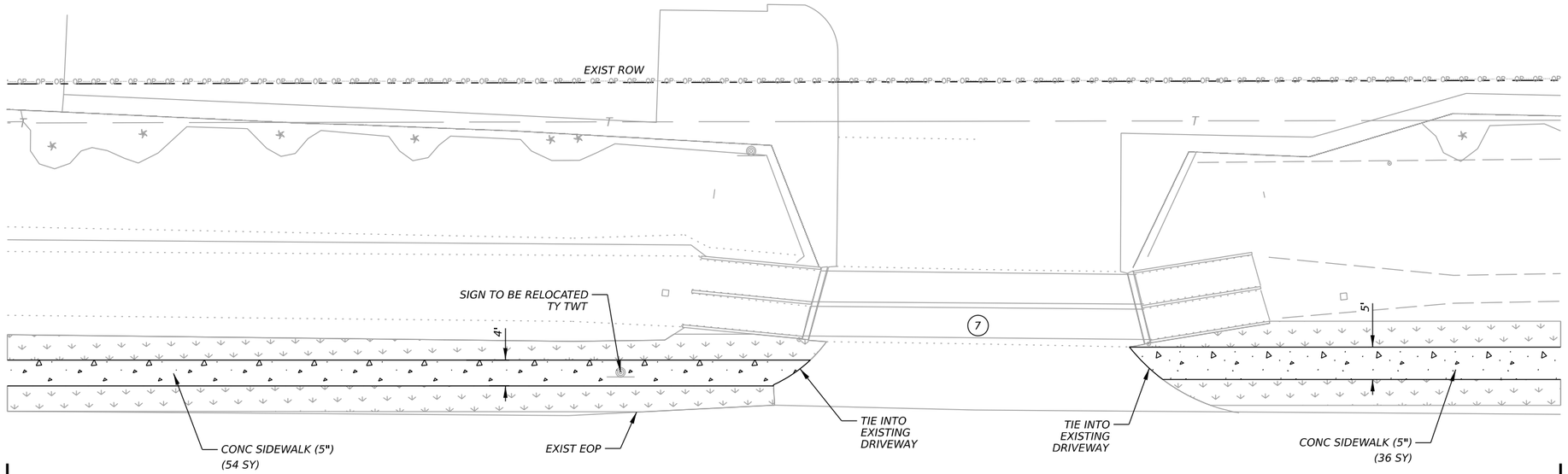

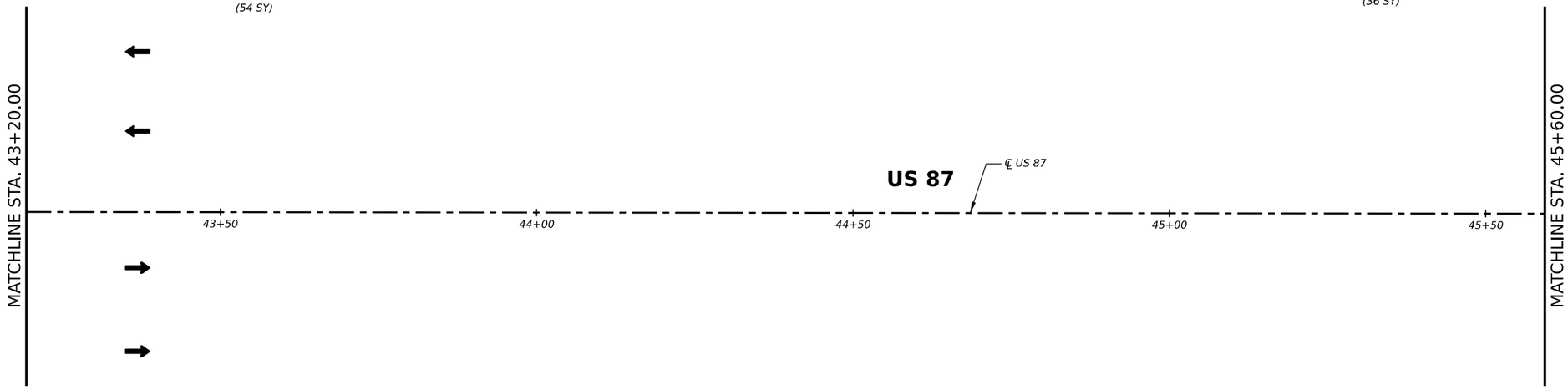

LEGEND

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- DRIVEWAY NUMBER
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SCALE: 1" = 20'

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 16 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		94

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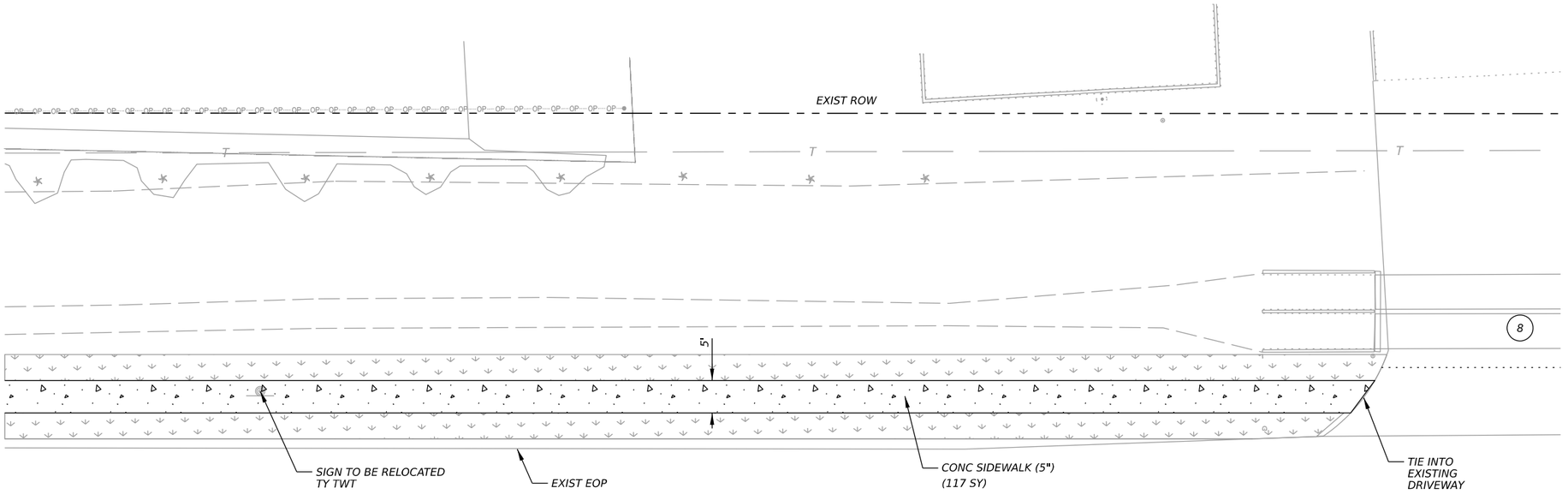

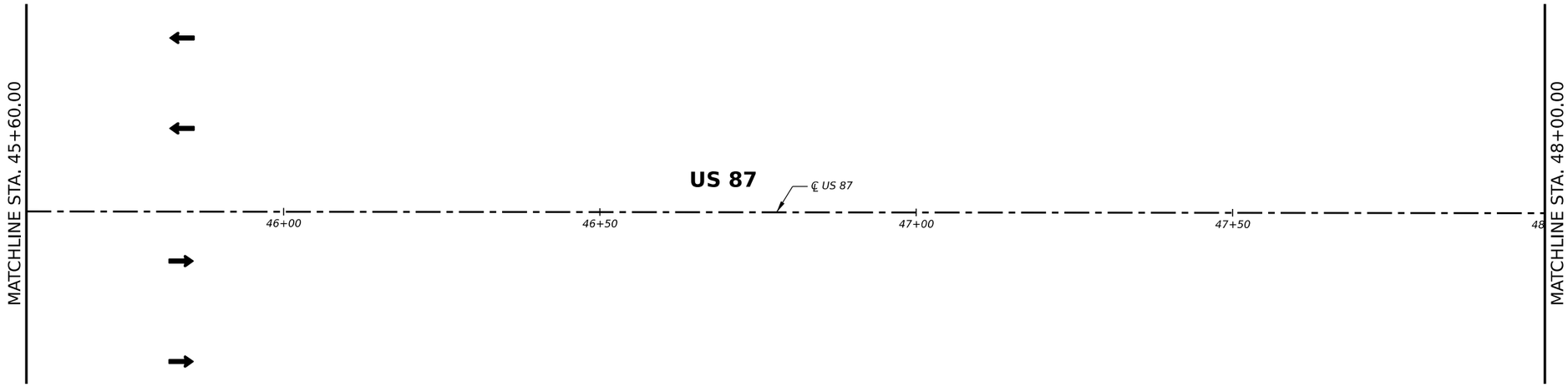

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
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- REMOVAL (CONCRETE)
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SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 87 CUERO
CSJ: 0143-09-071

SHEET 17 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.

DIST	COUNTY	SHEET NO.
YKM	COLORADO, ETC.	95

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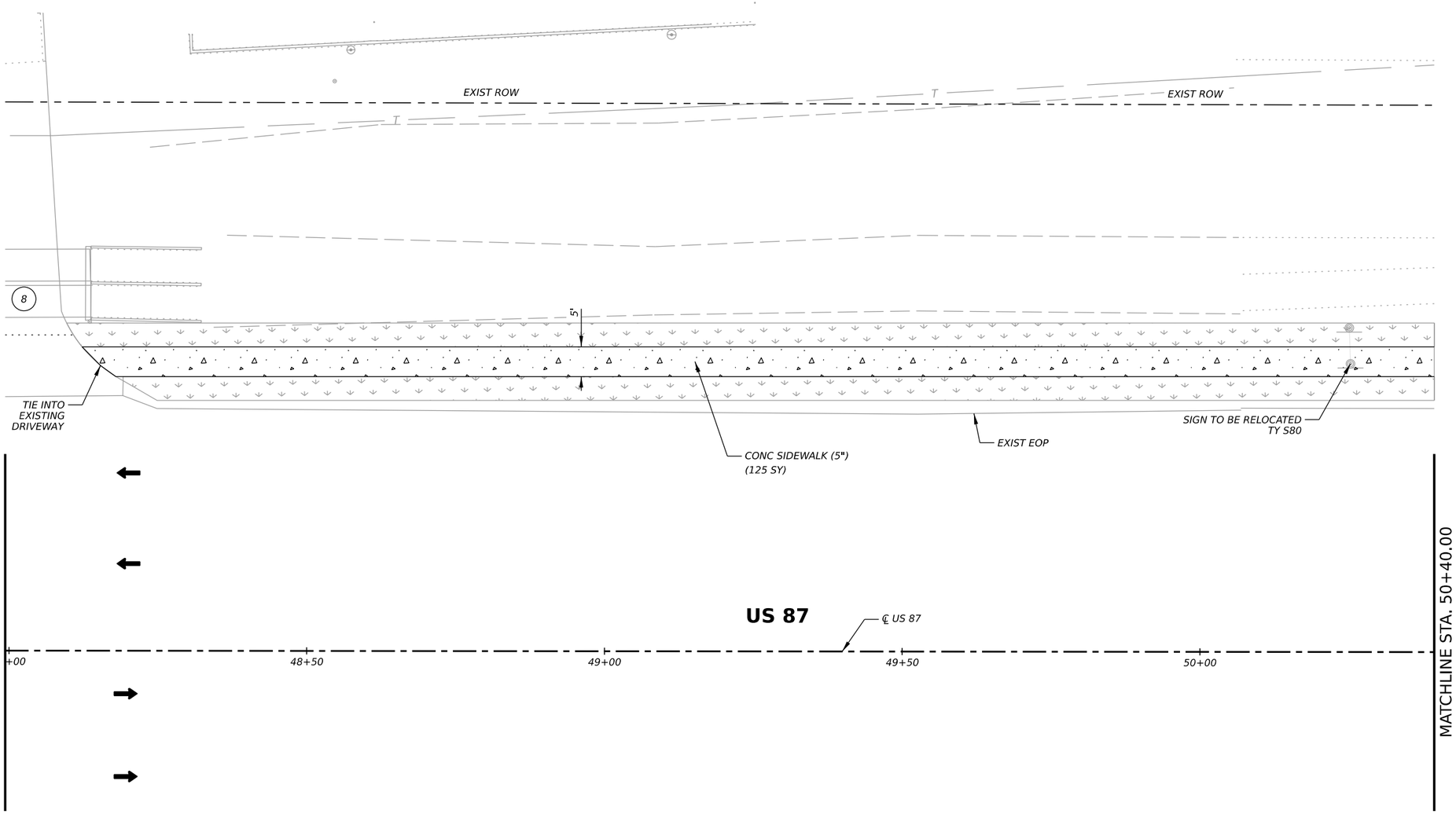

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
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7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 18 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		96

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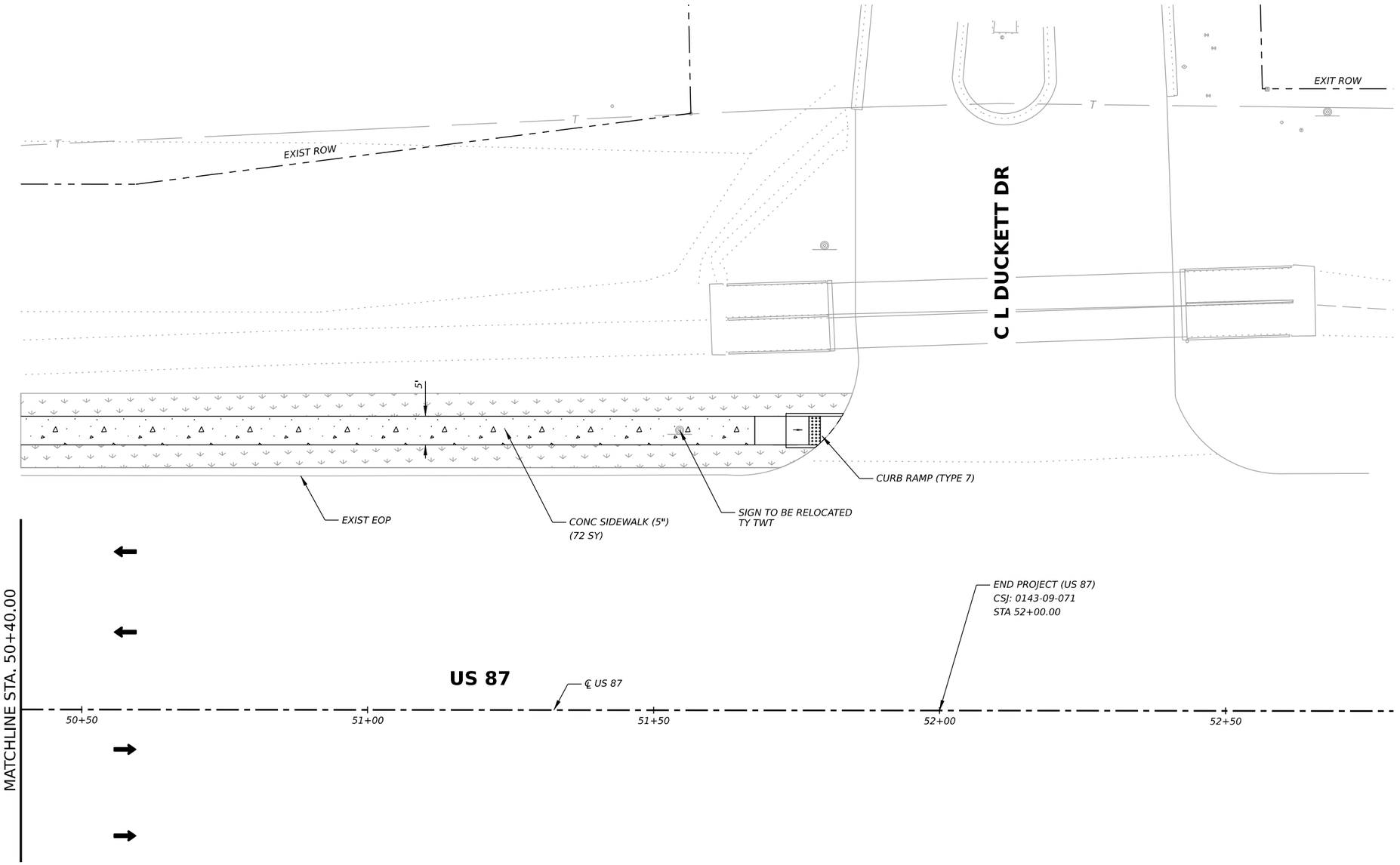

LEGEND

- DIRECTION OF TRAFFIC
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- REMOVAL (CONCRETE)
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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 87 CUERO CSJ: 0143-09-071

SHEET 19 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		97

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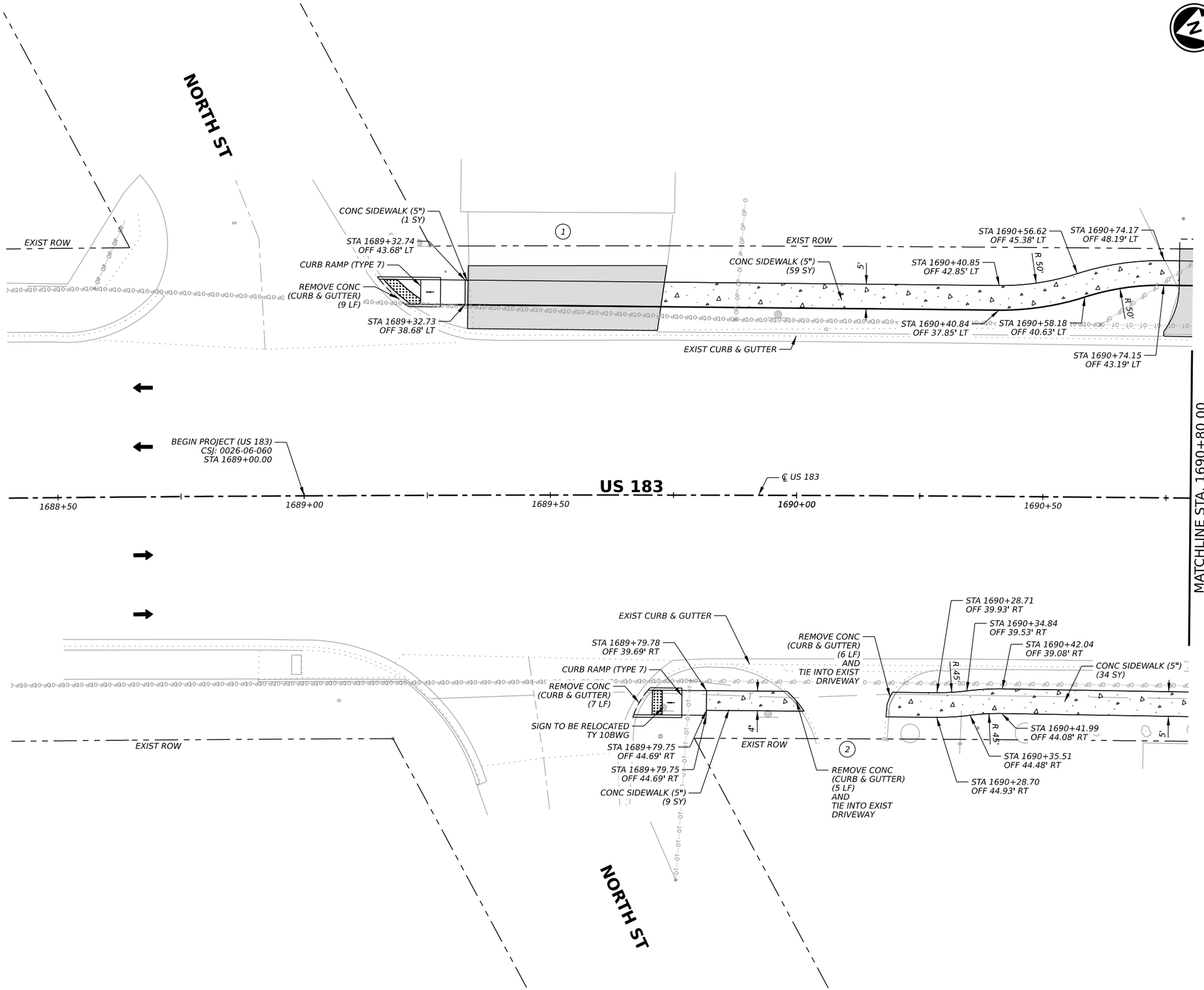

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 1 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		98

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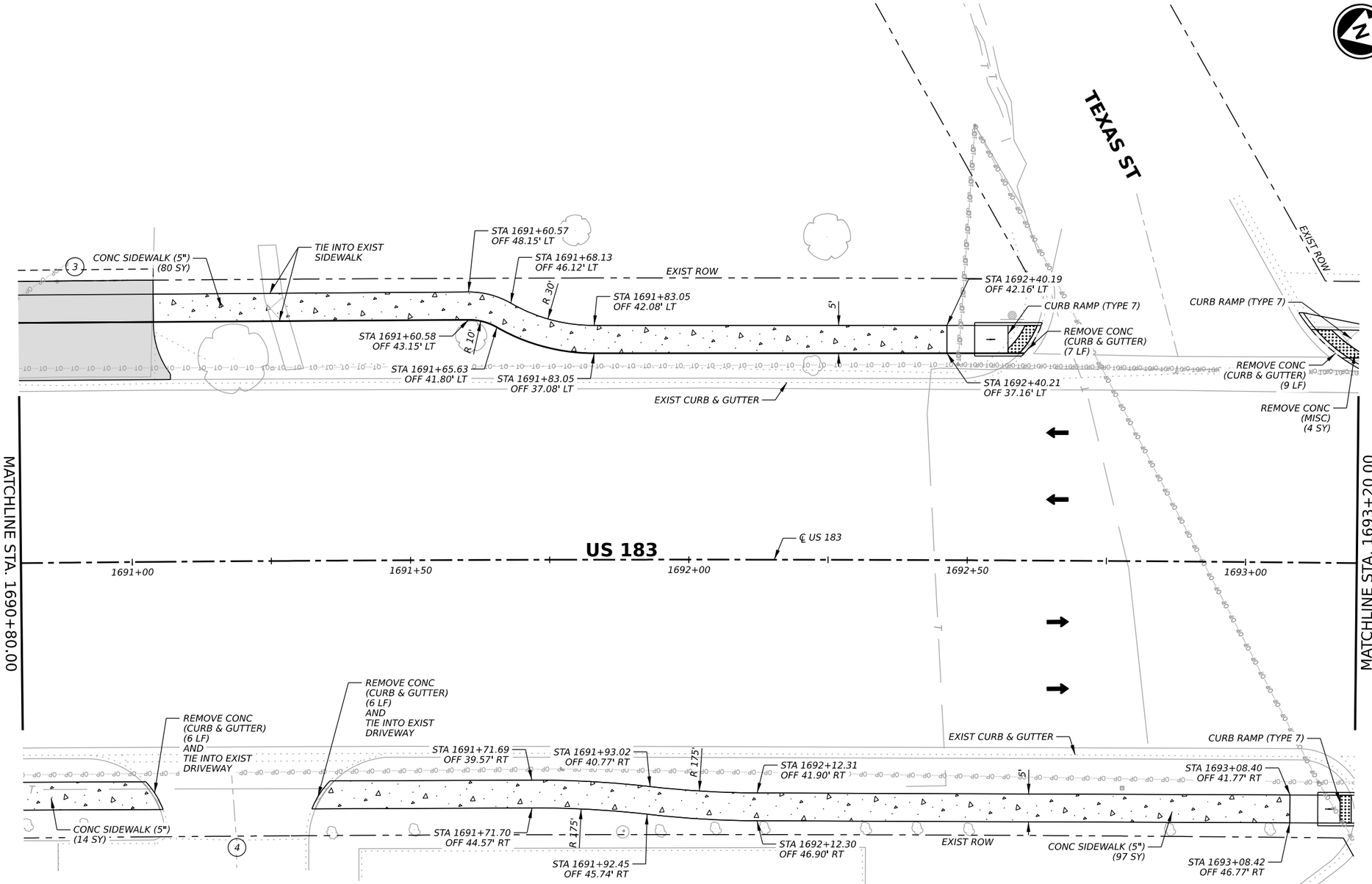

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 2 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		99

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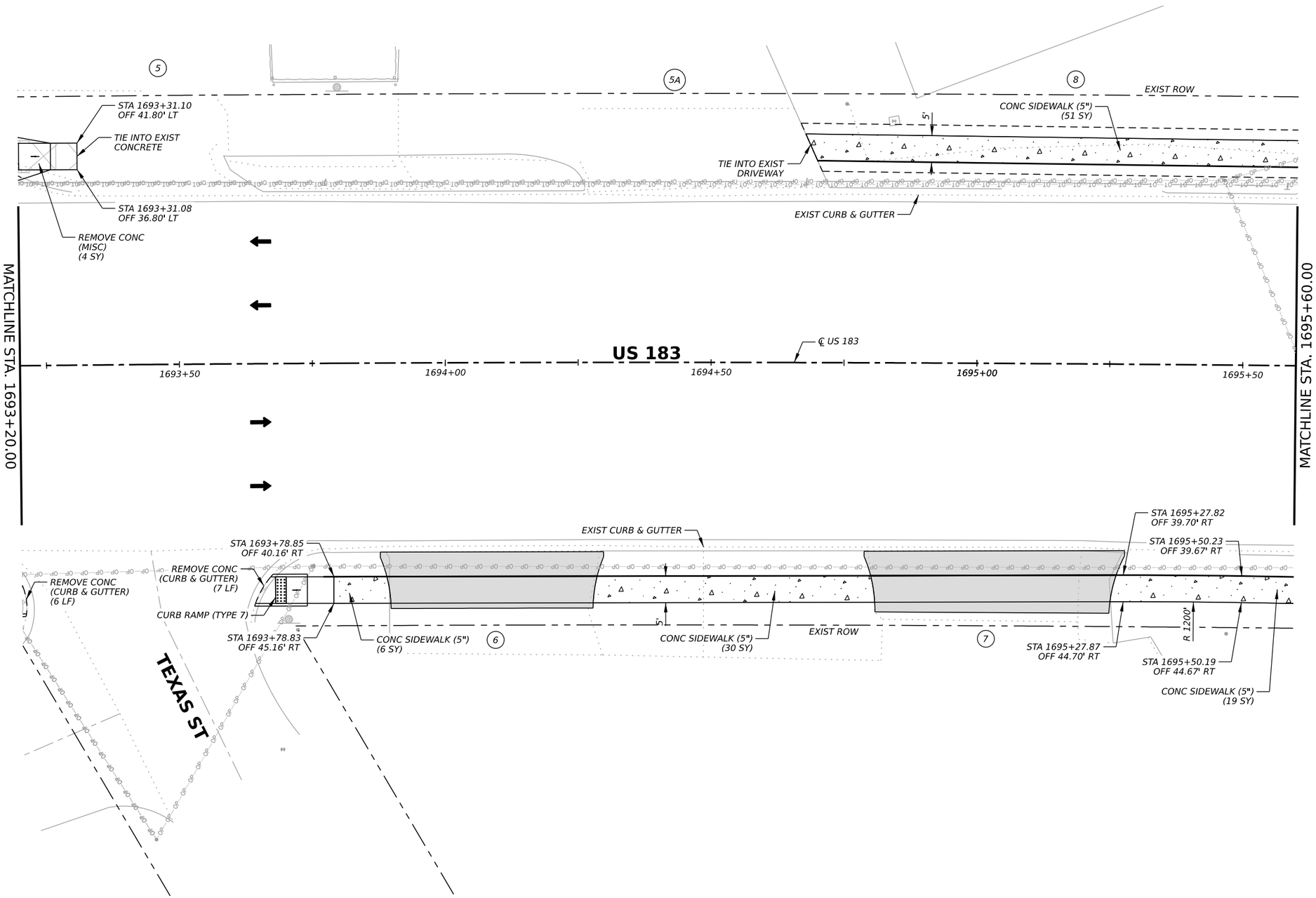

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 3 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		100

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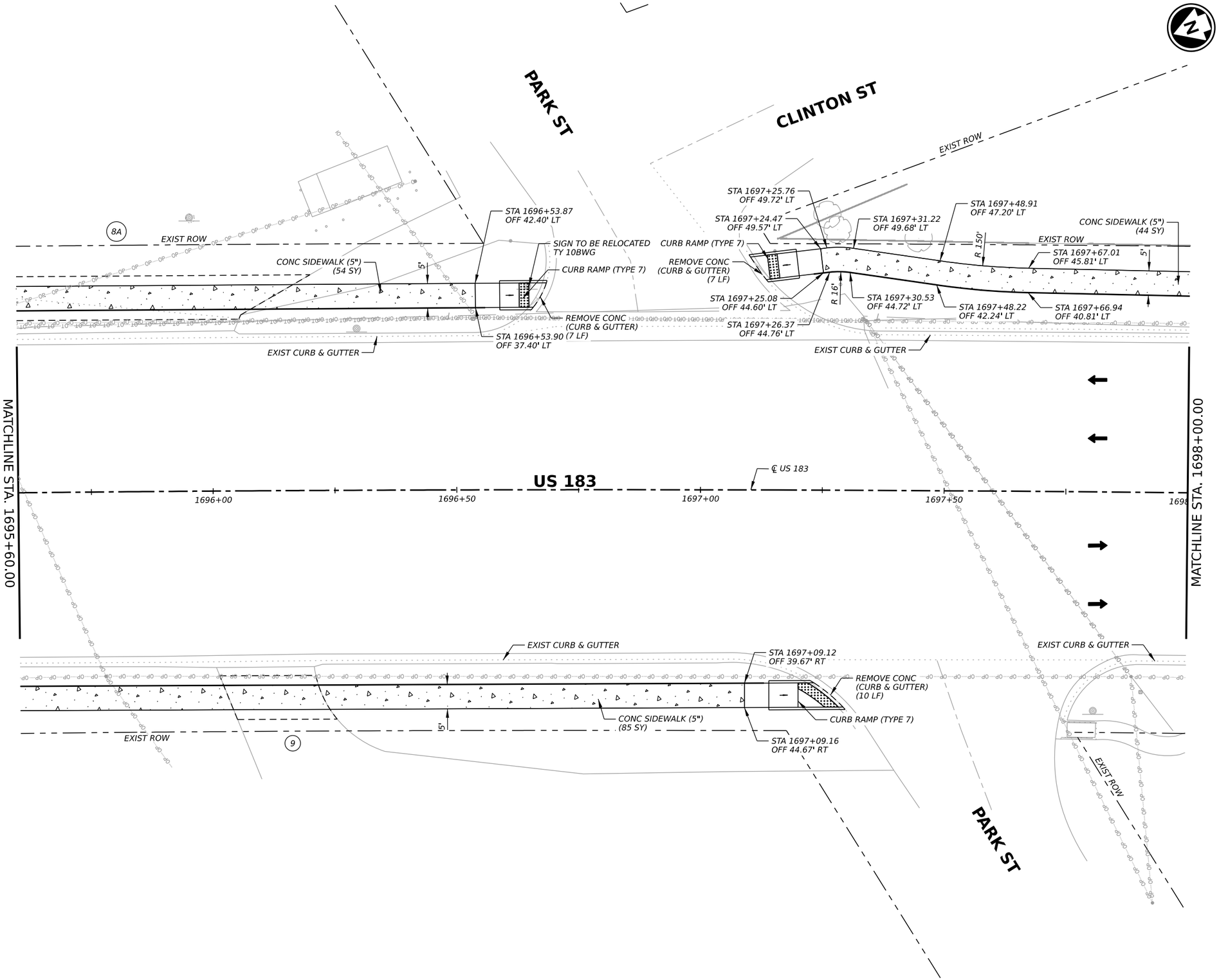

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 4 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		101

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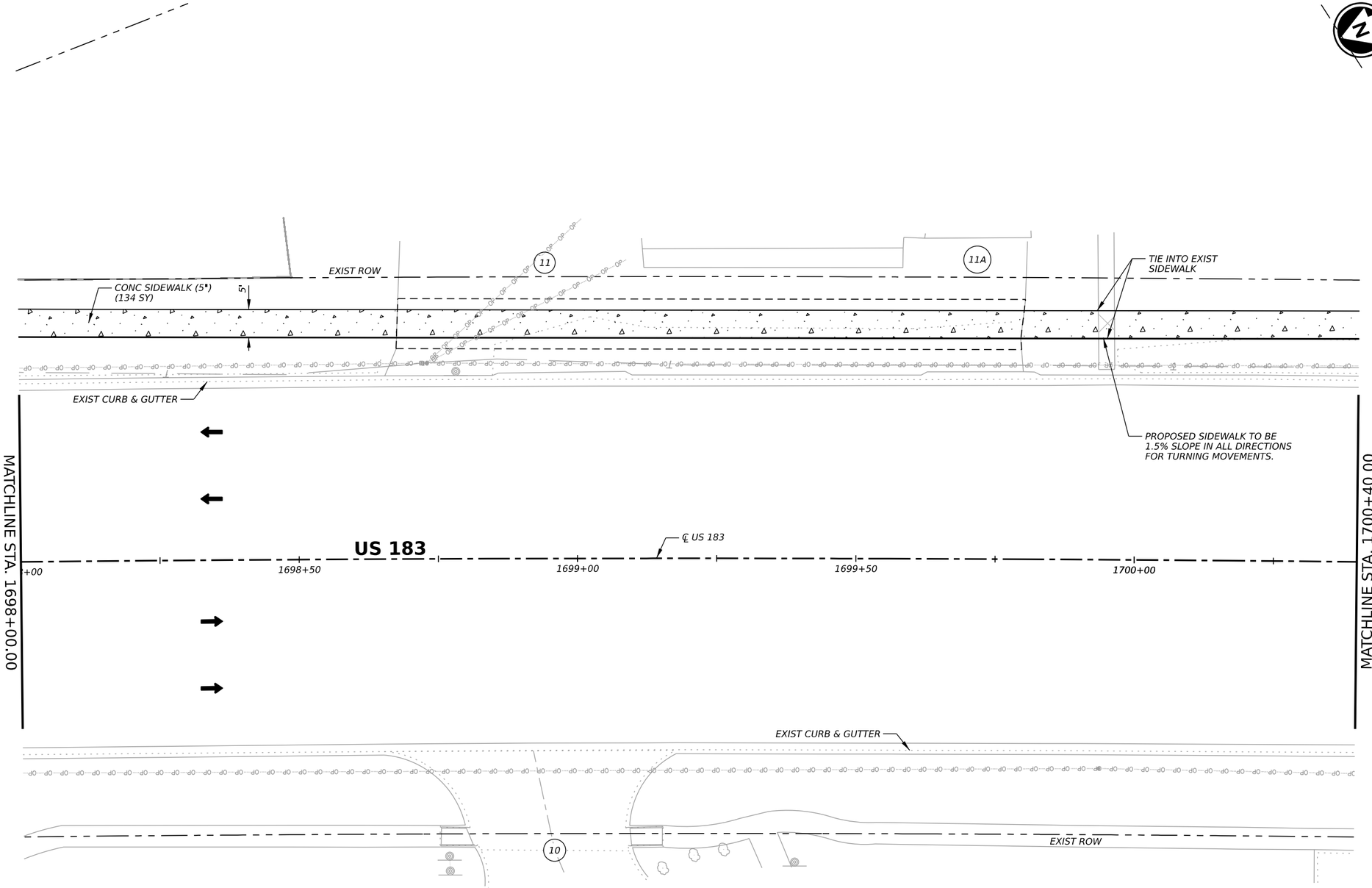

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 5 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		102

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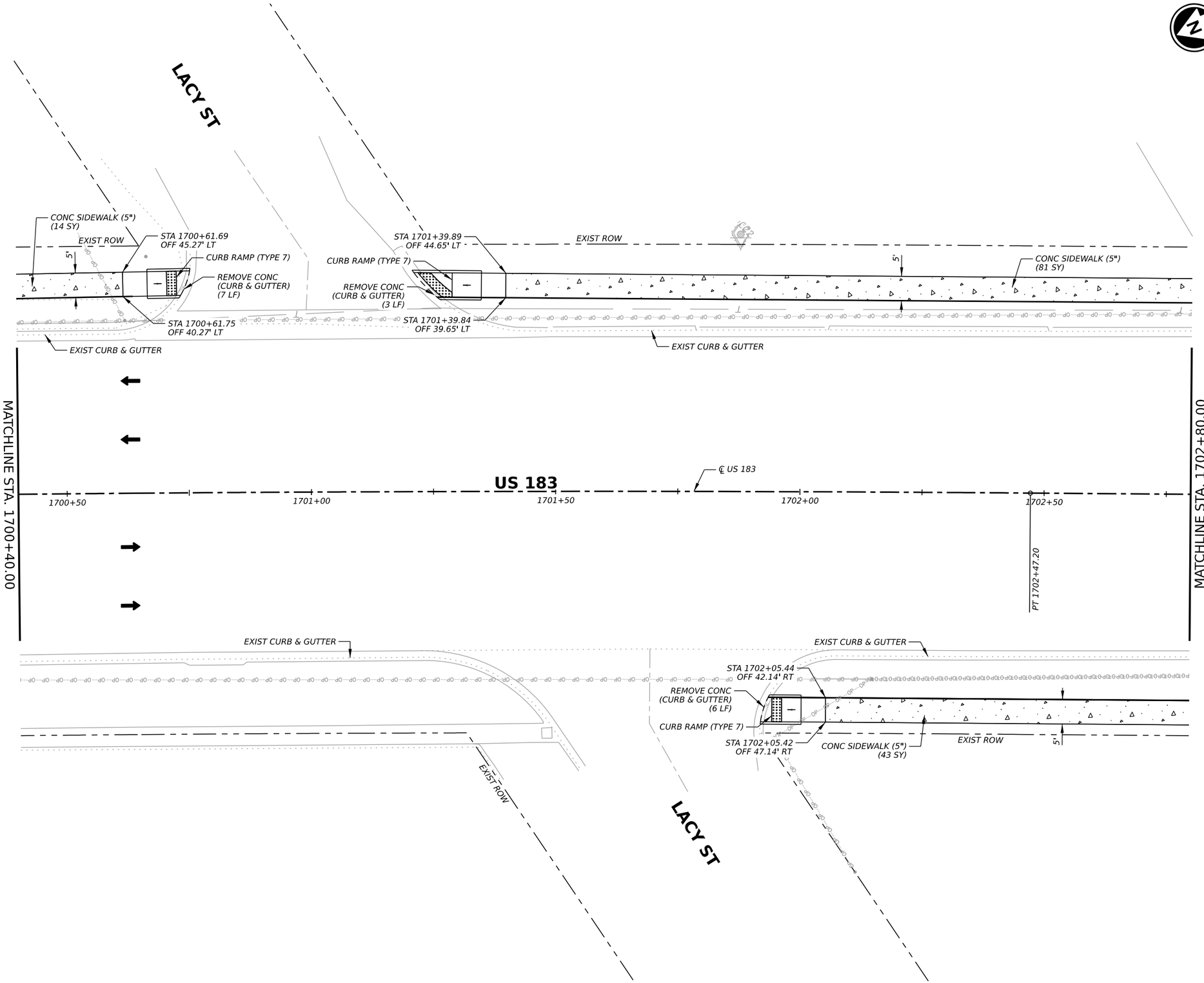

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SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 6 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		103

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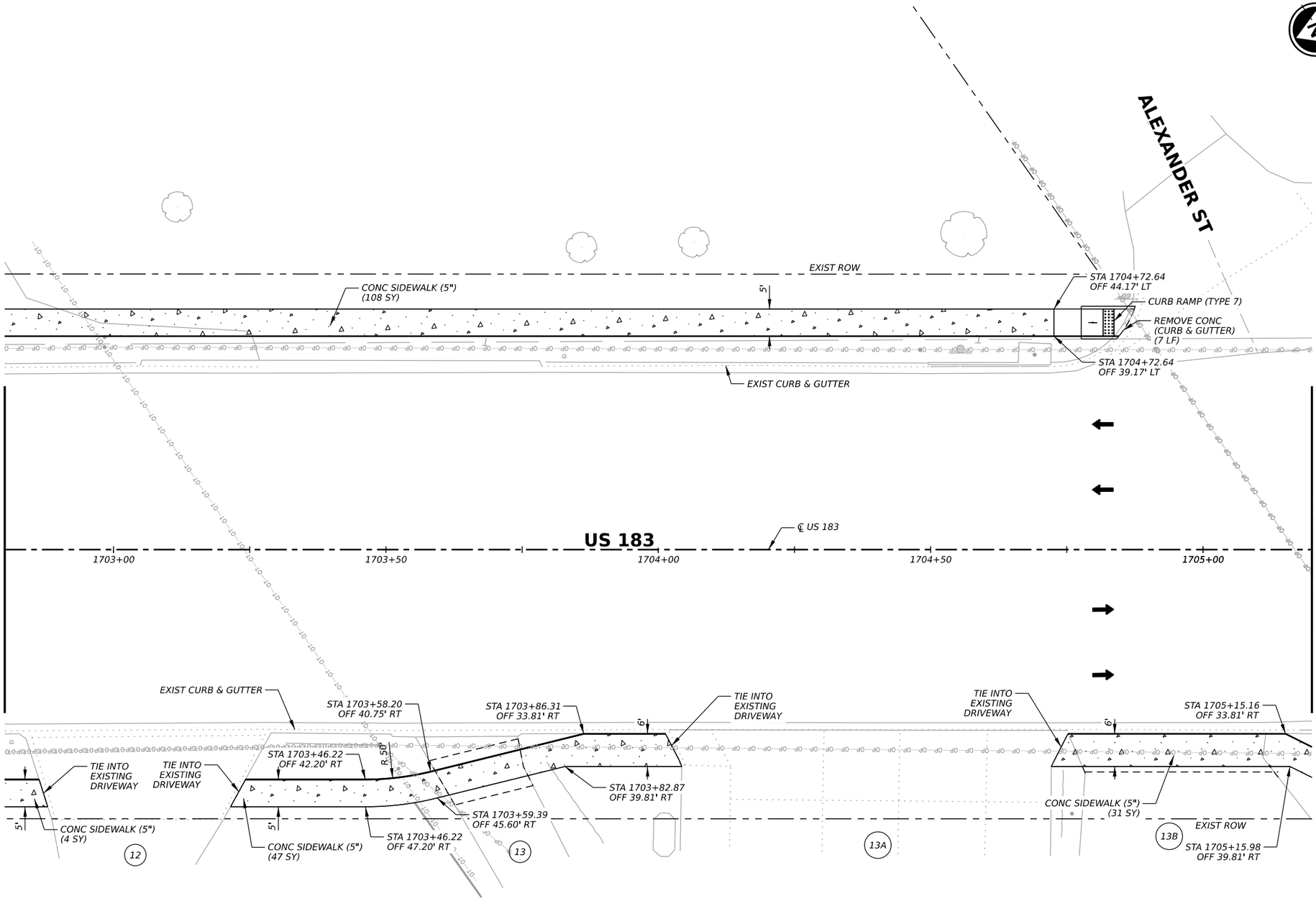

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SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 7 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		104

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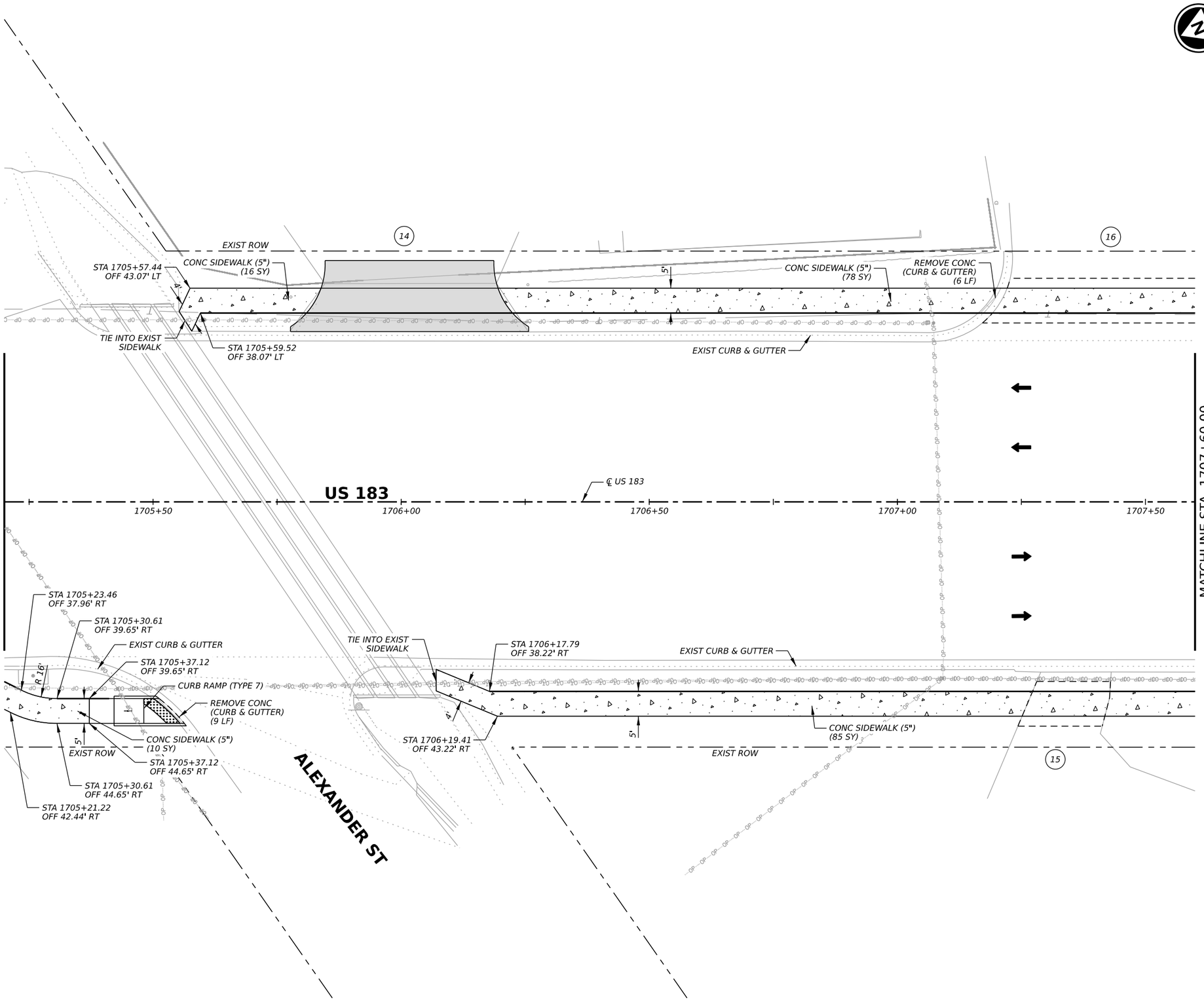

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7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 8 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		105

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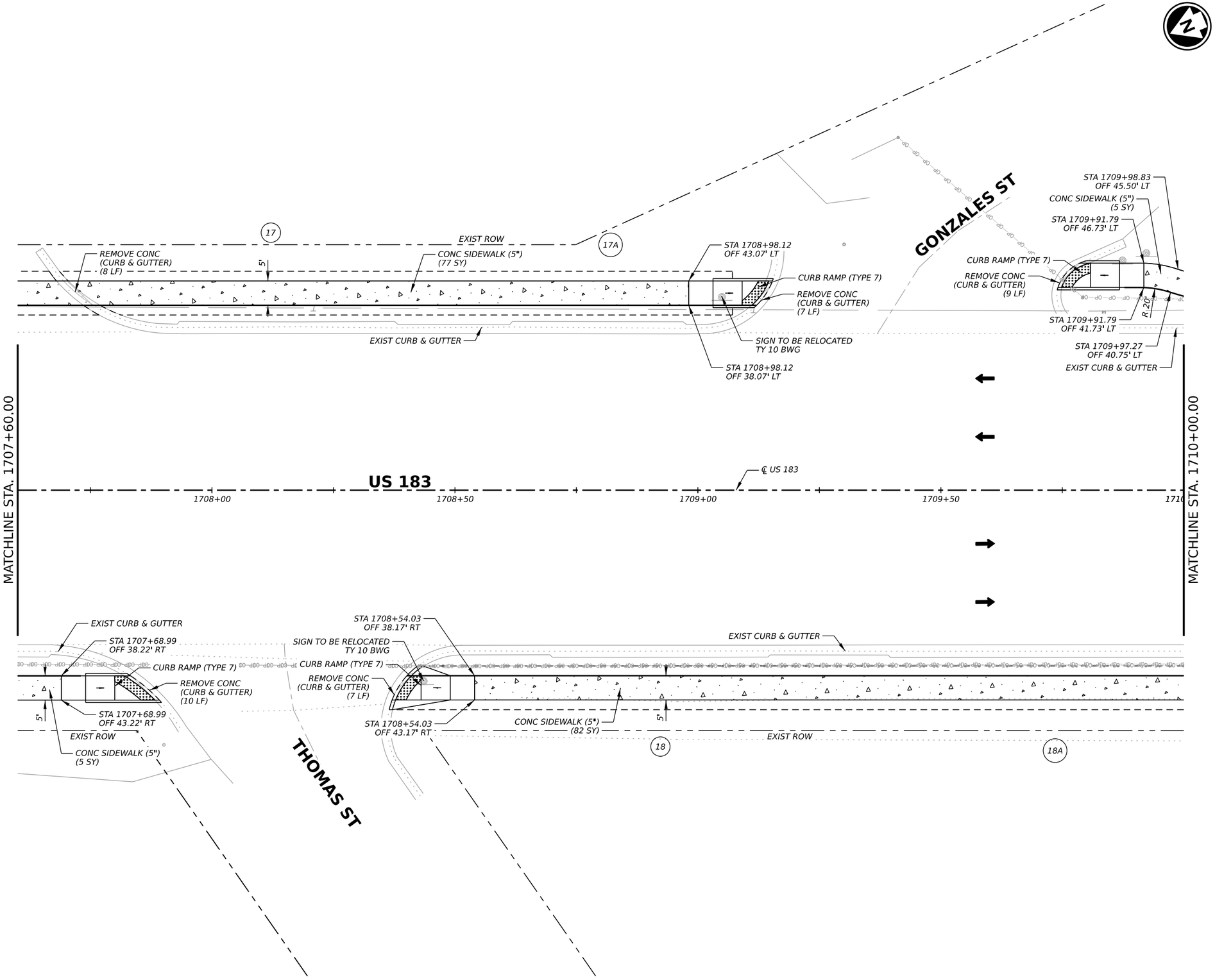

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 9 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		106

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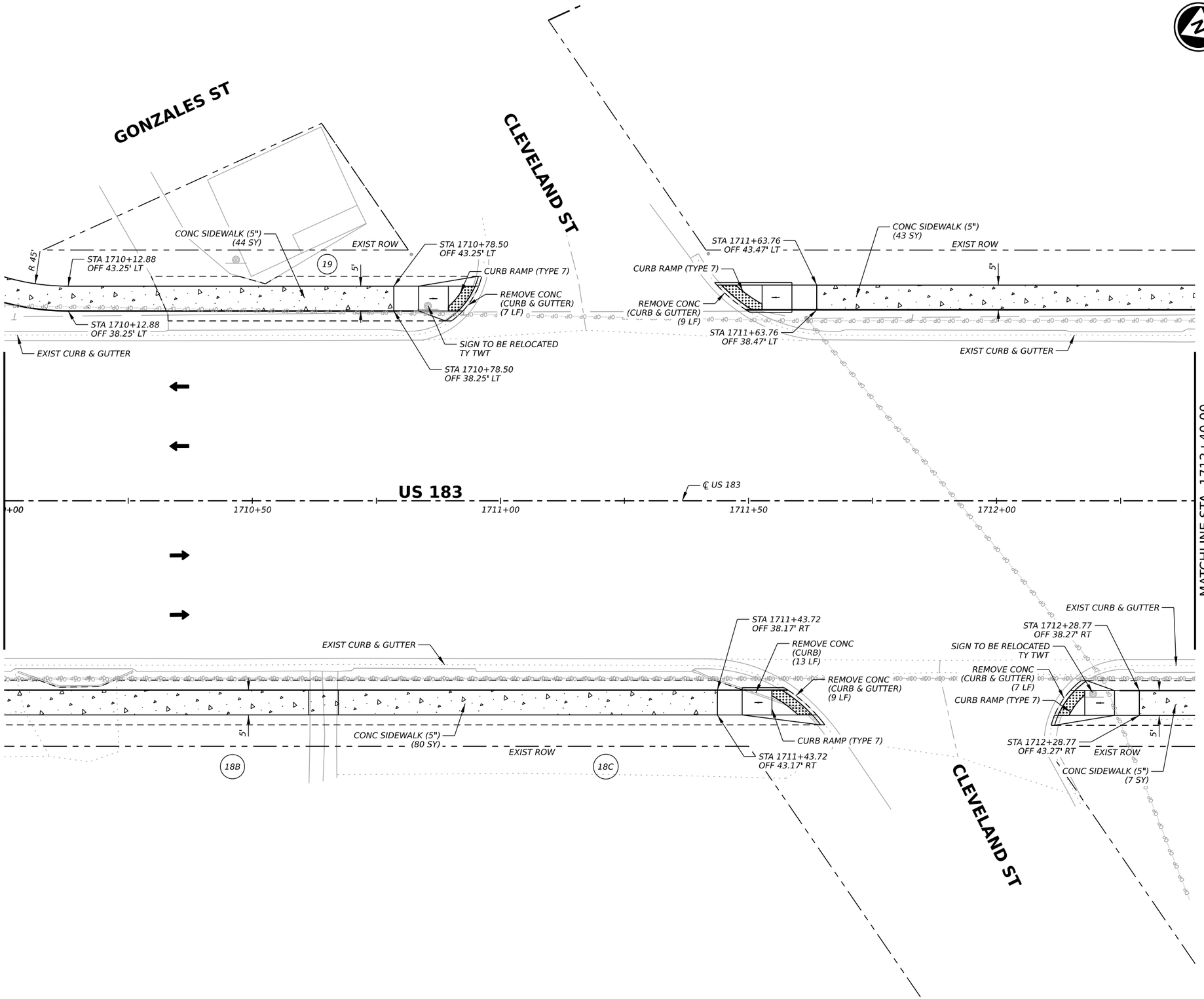

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 10 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		107

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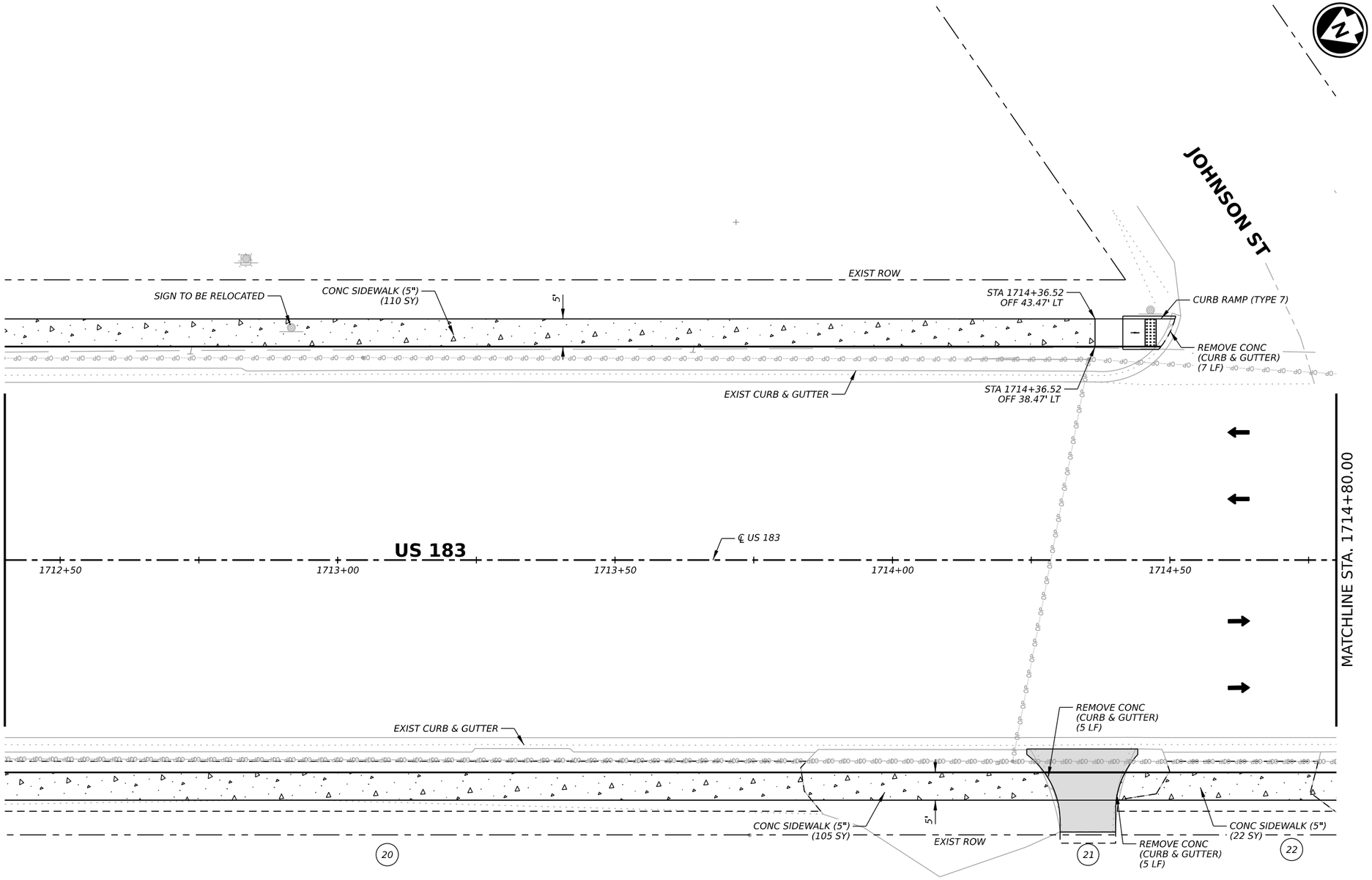

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 11 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		108

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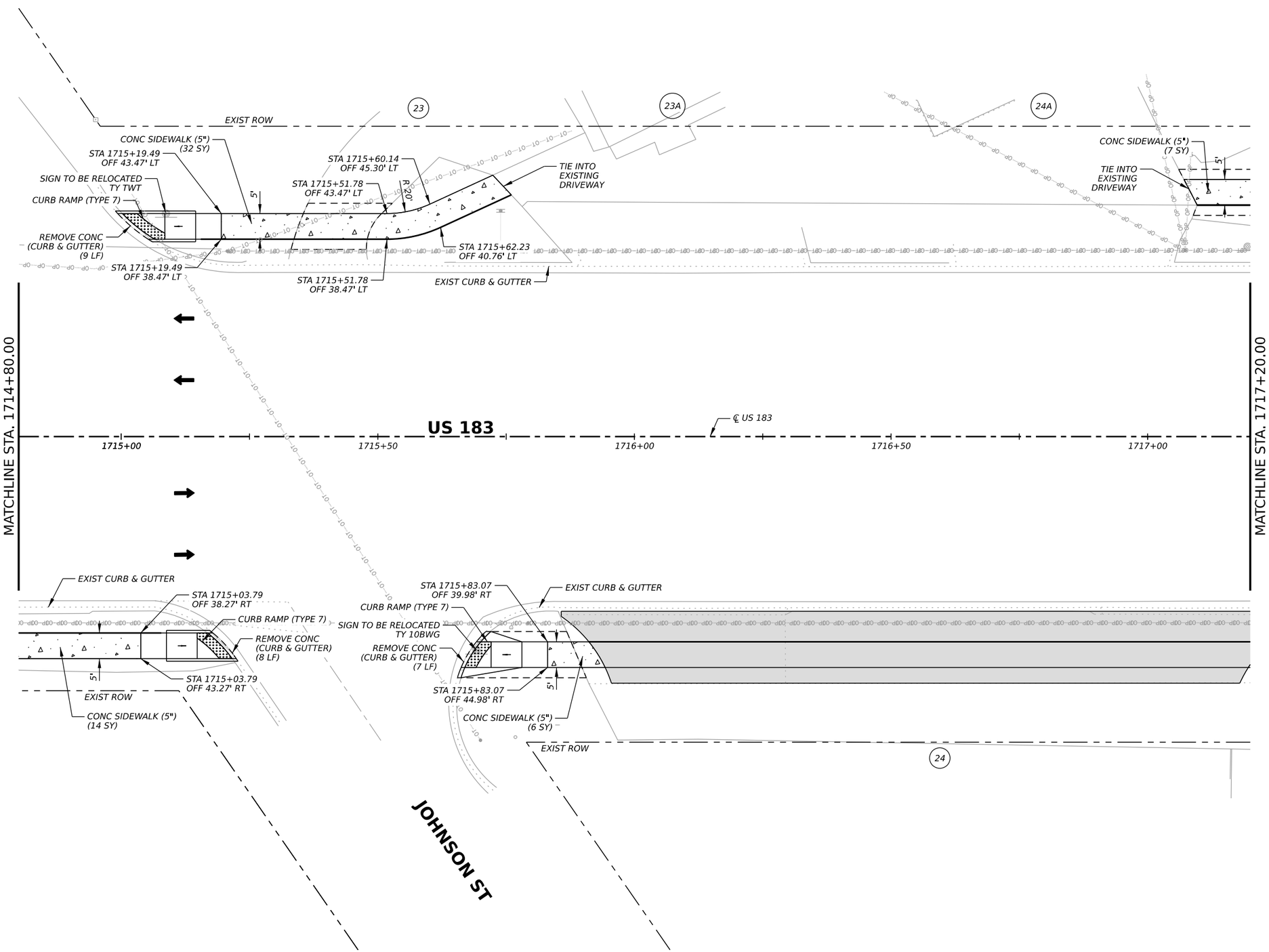

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 12 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		109

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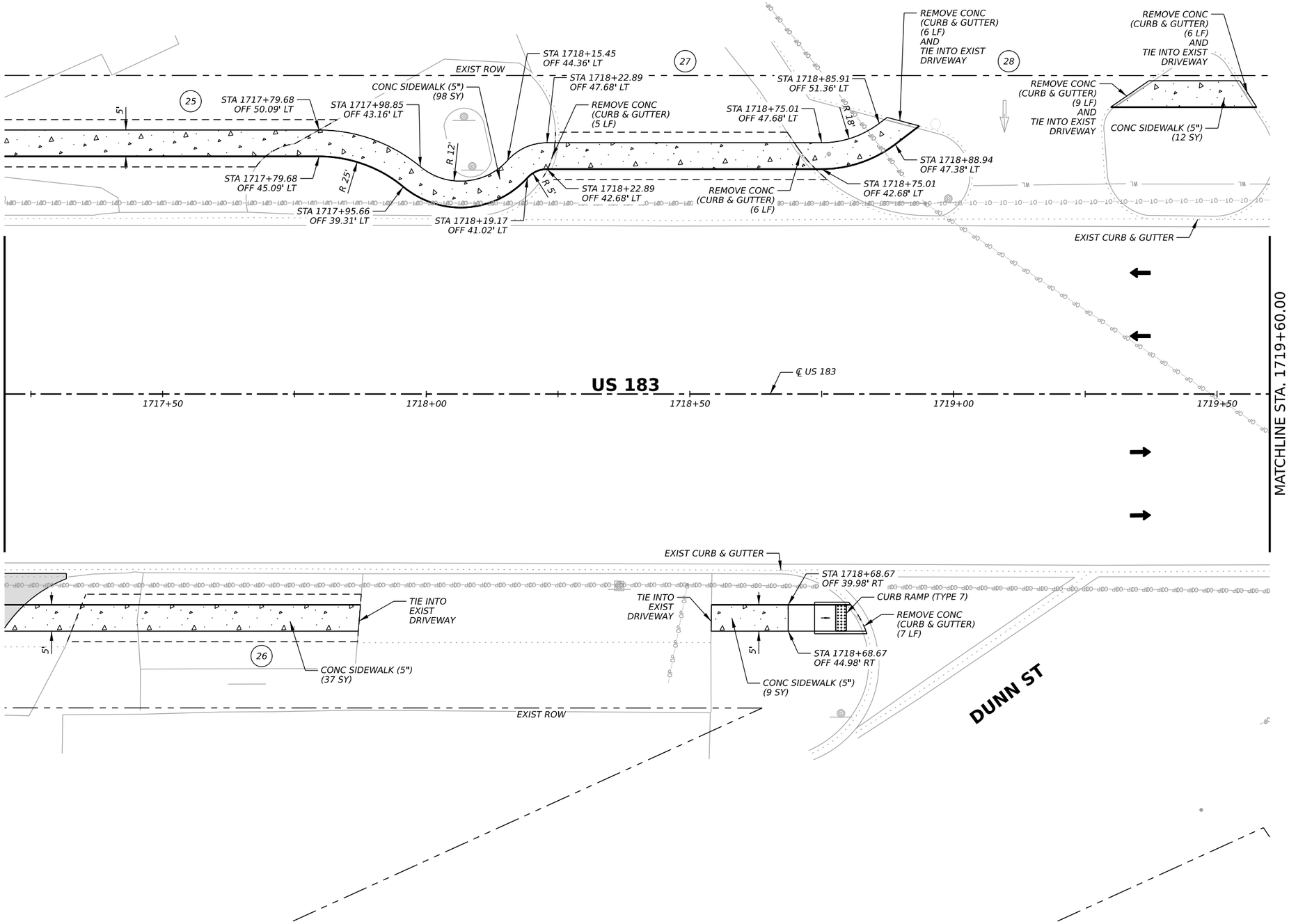

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 13 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		110

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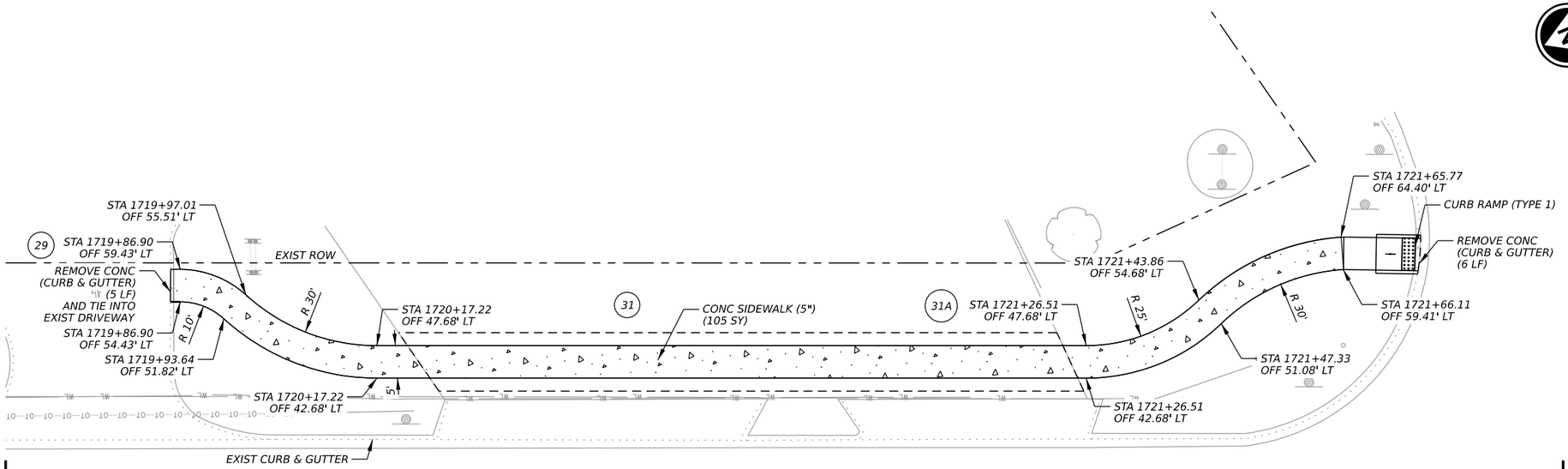

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SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 14 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		111

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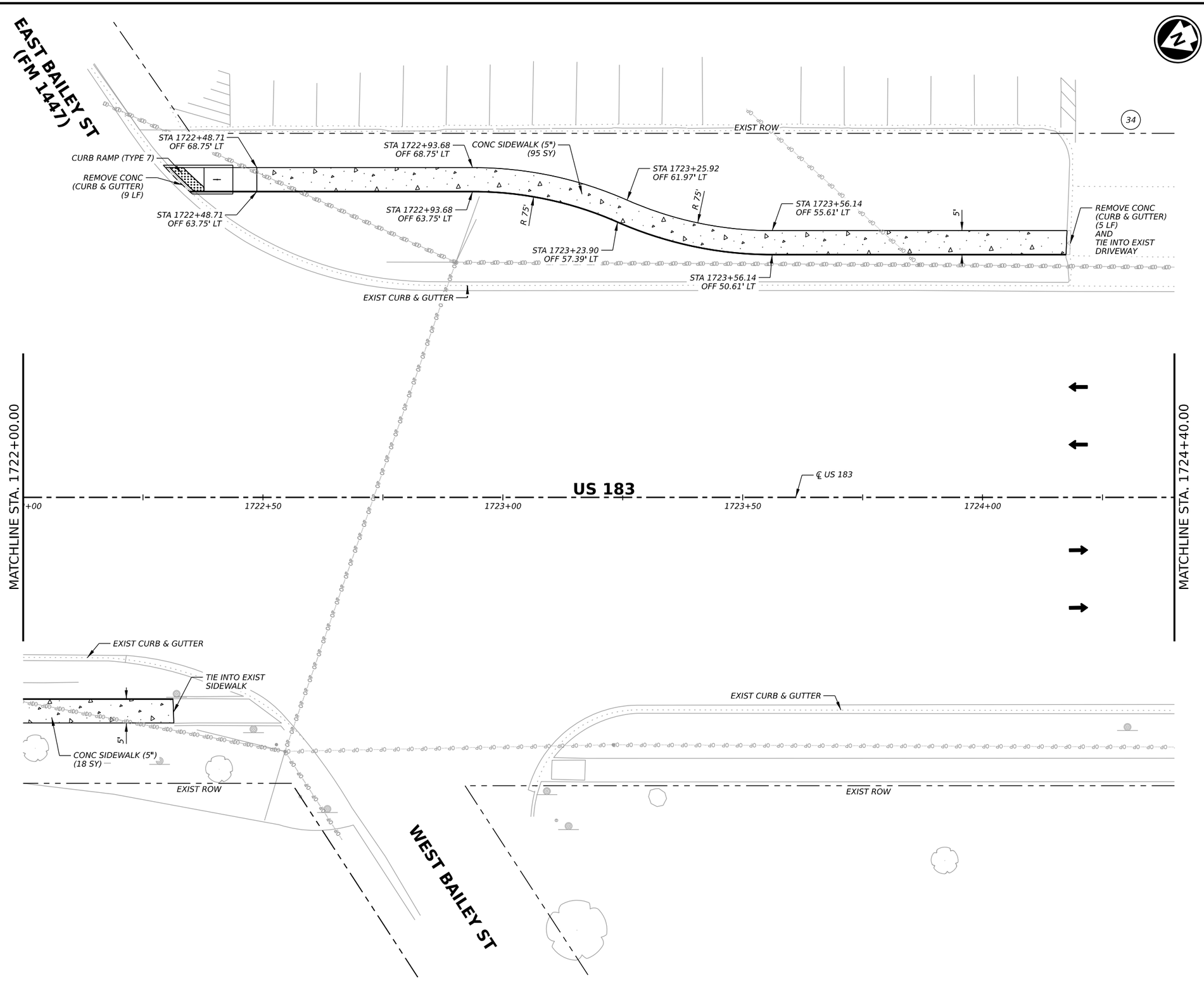

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SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 15 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		112

DATE: 6/4/2024 6:37:37 PM
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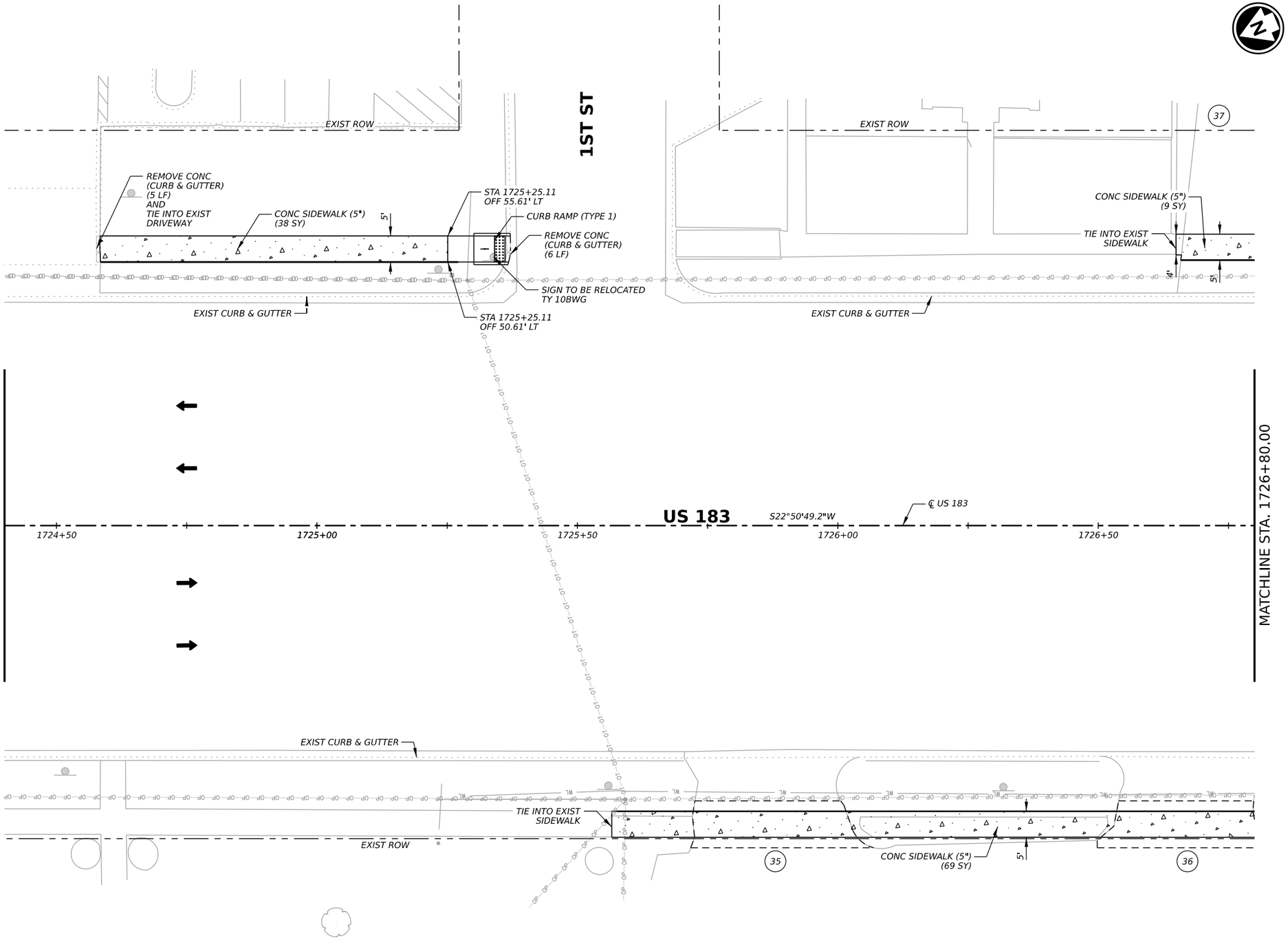

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SHEET 16 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		113

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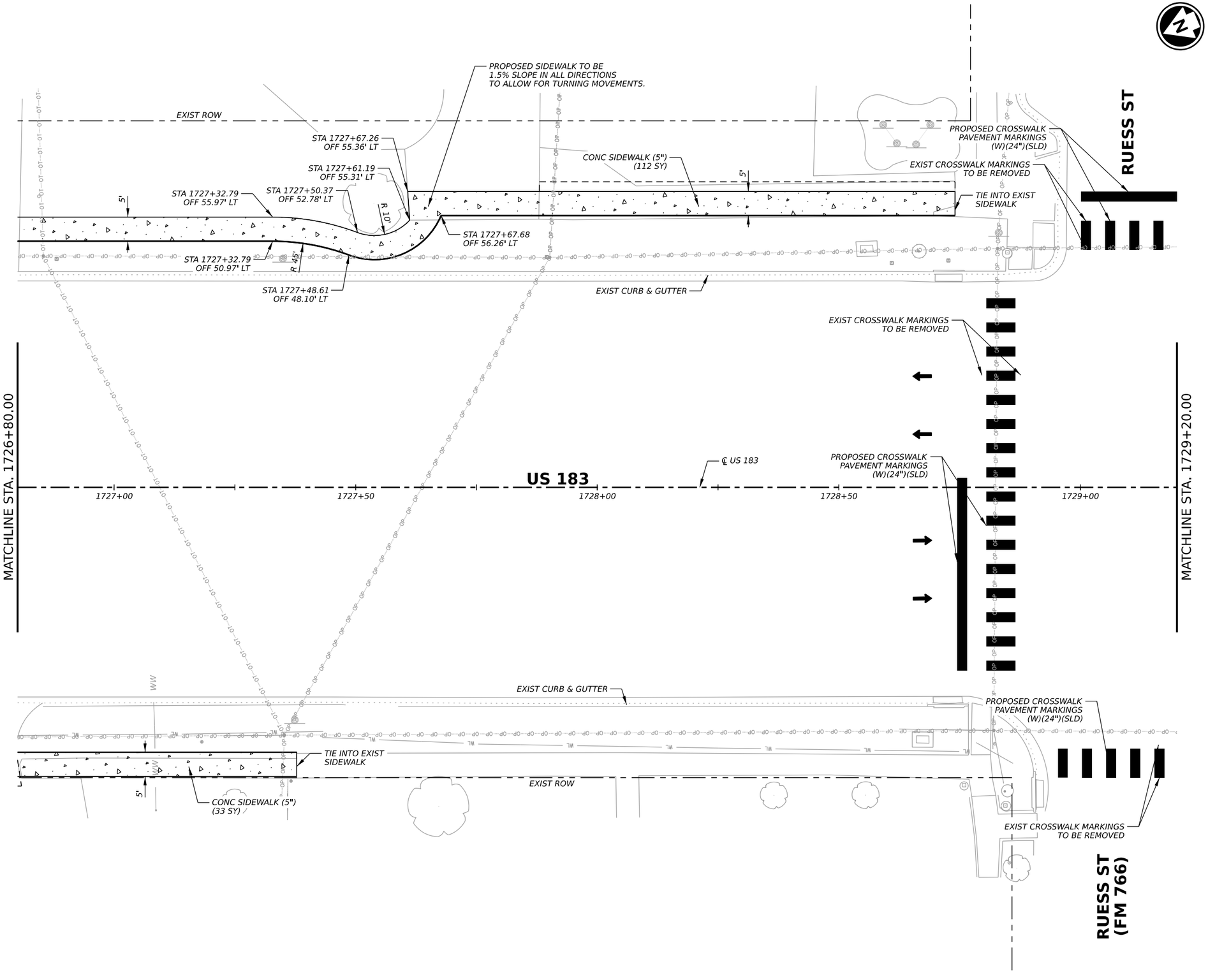

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SHEET 17 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		114

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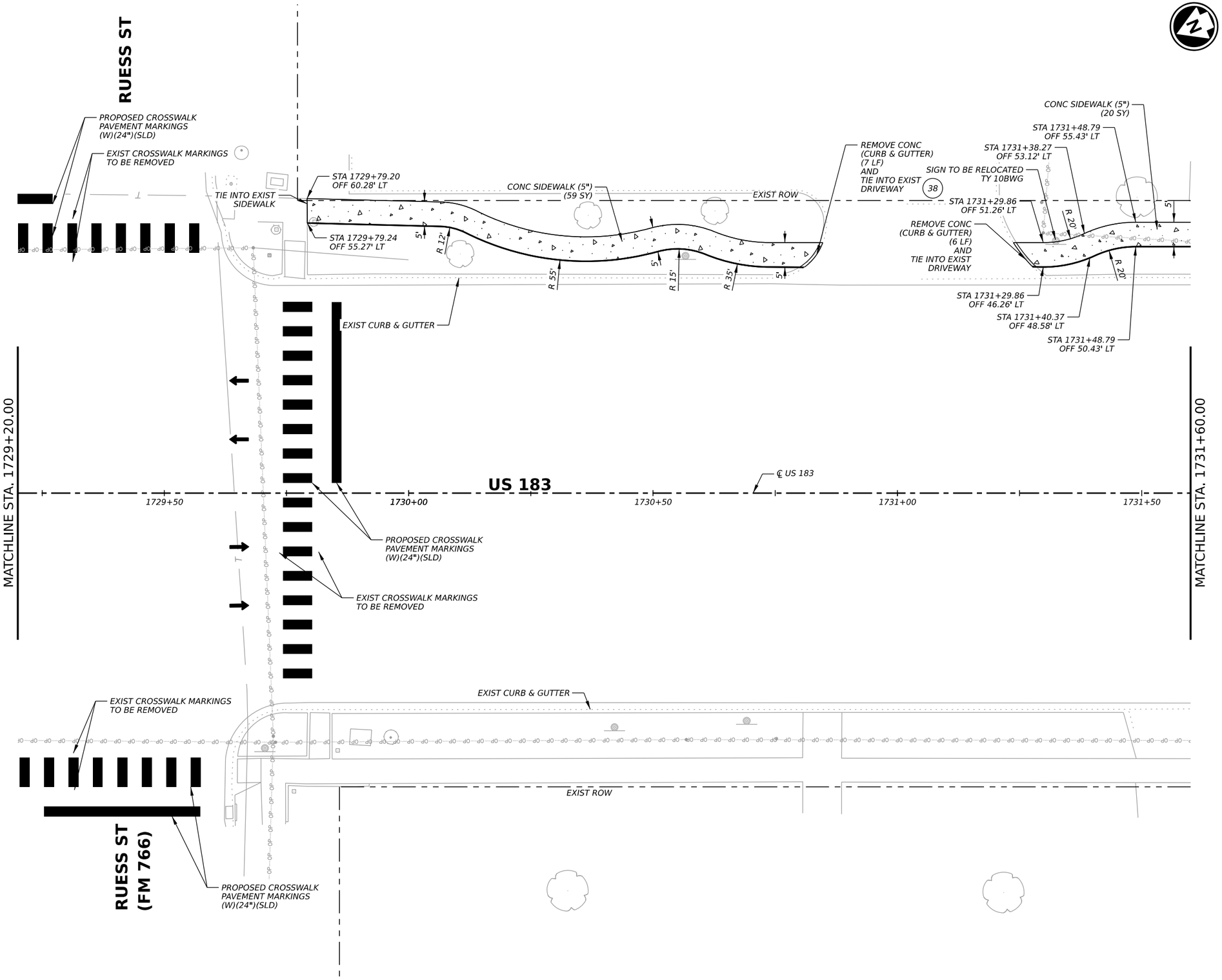

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 18 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		115

DATE: 6/4/2024 6:37:58 PM
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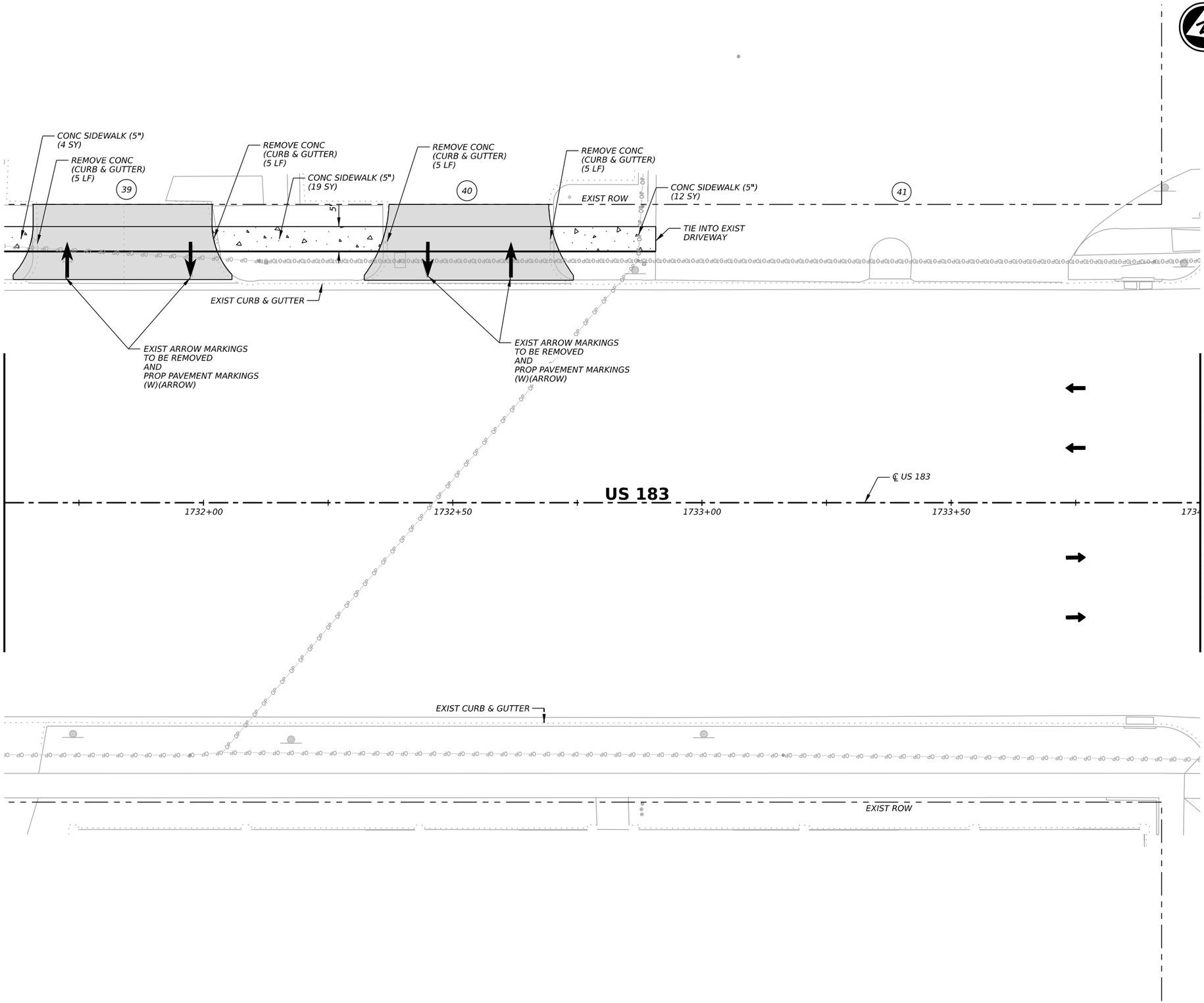

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 19 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		116

DATE: 6/4/2024 6:38:08 PM
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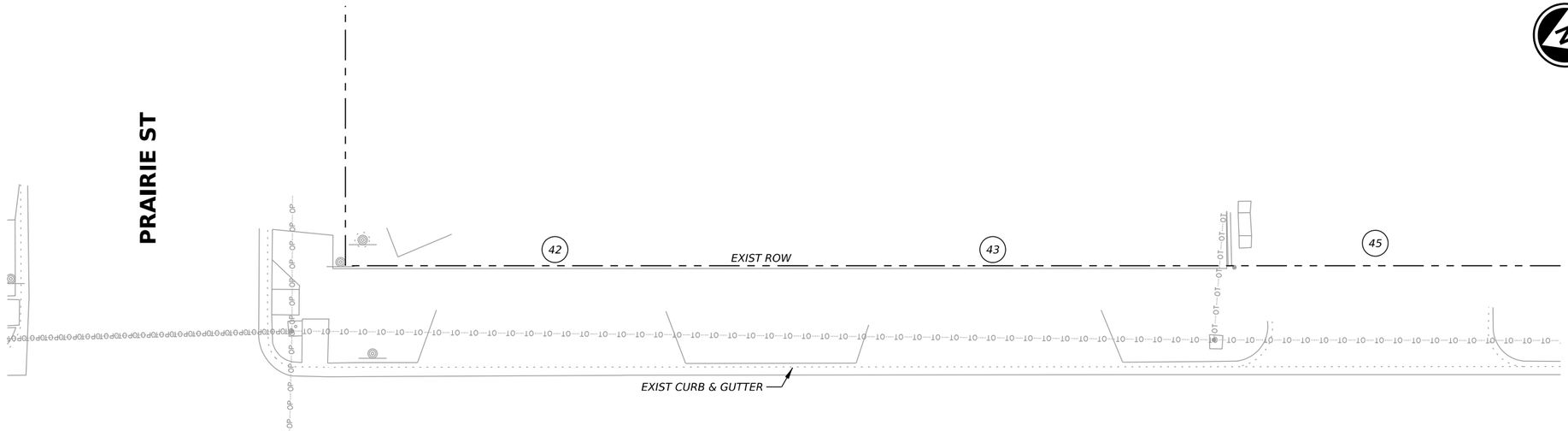

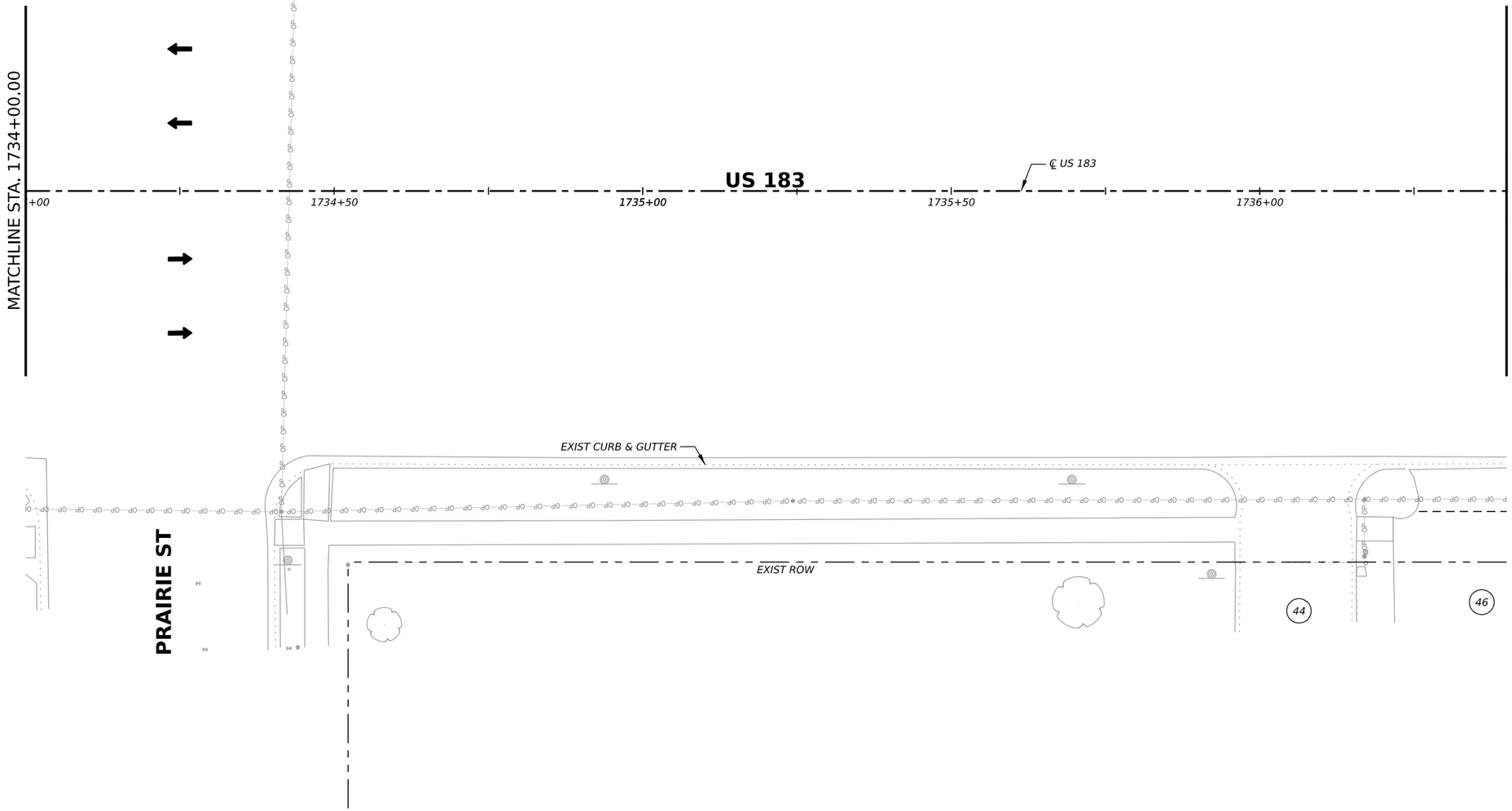

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. NO PROPOSED WORK ON THIS SHEET.

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SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 20 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		117

DATE: 6/4/2024 6:38:18 PM
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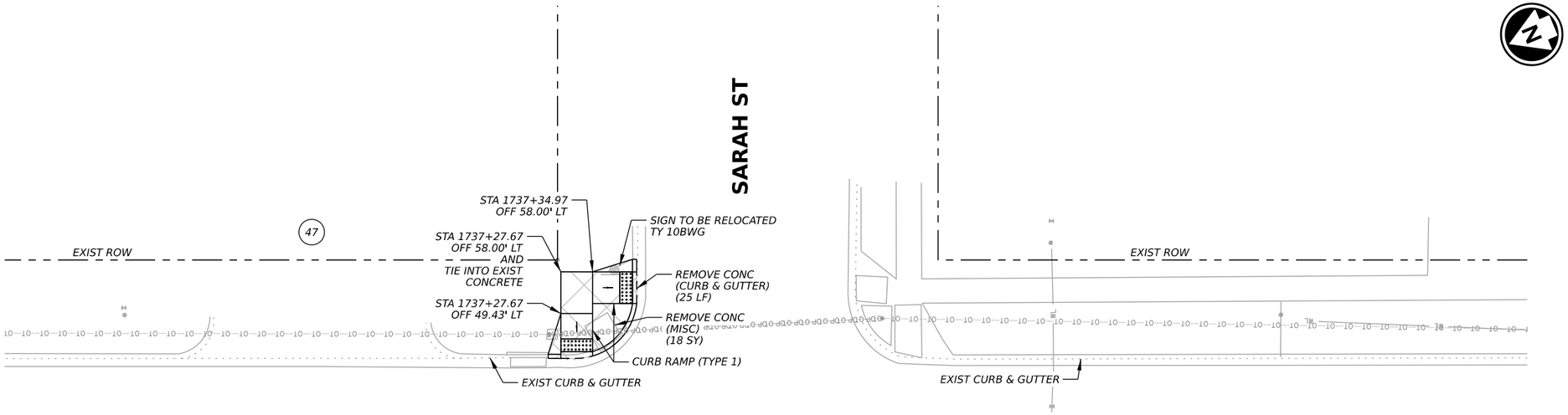

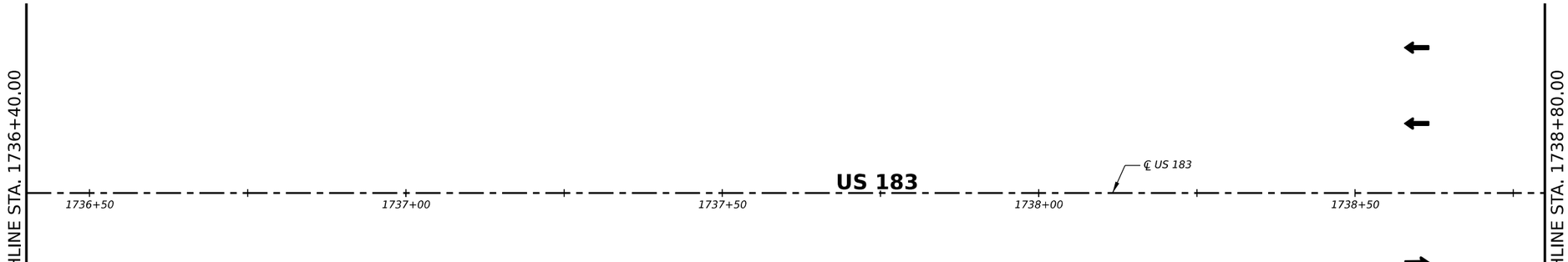

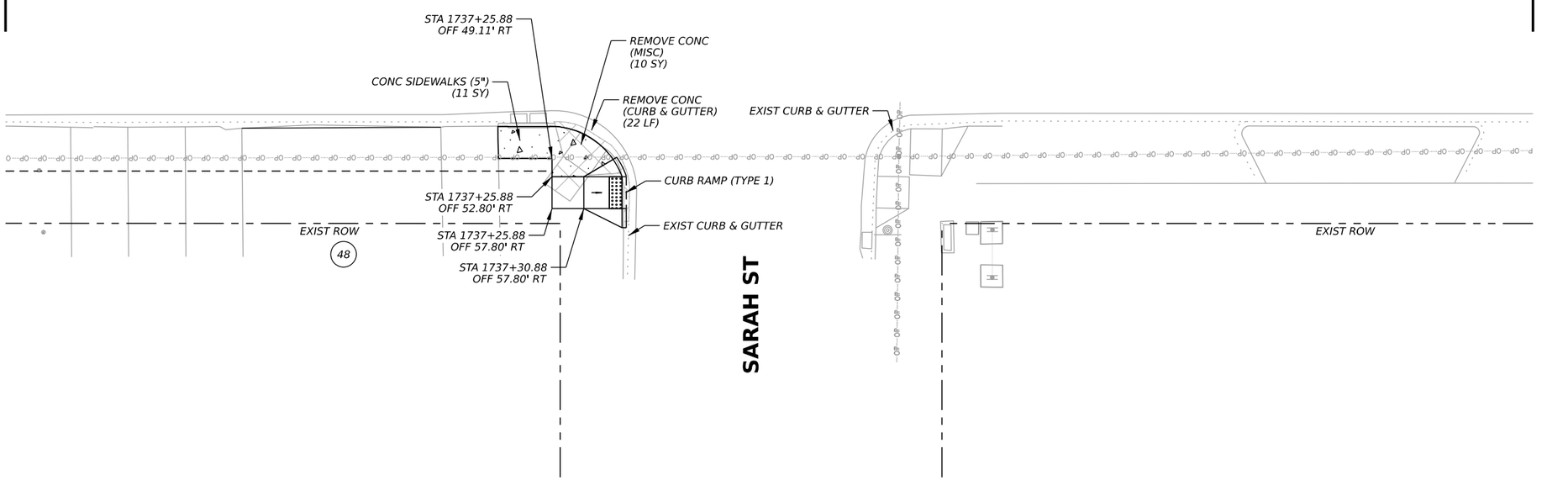

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 21 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		118

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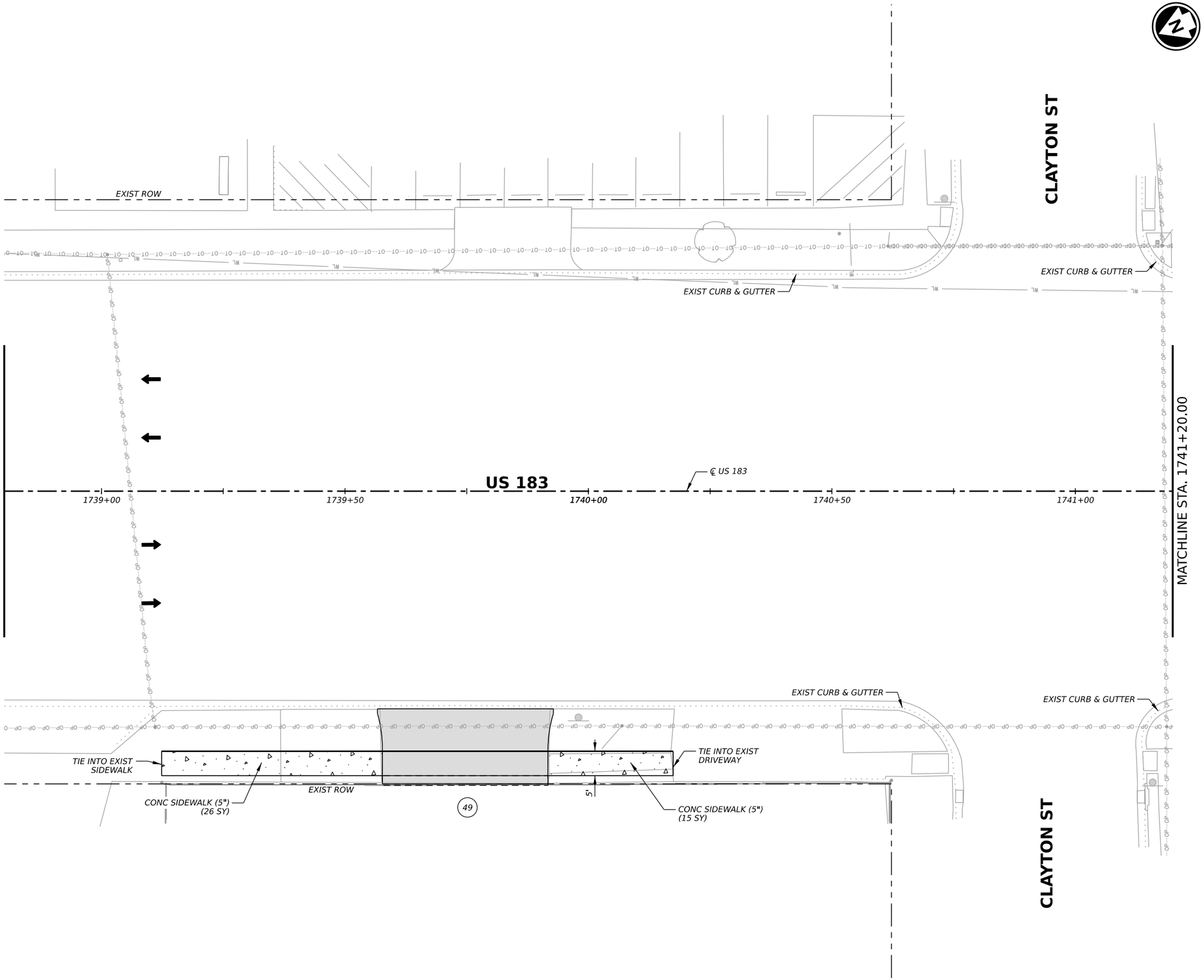

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 22 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		119

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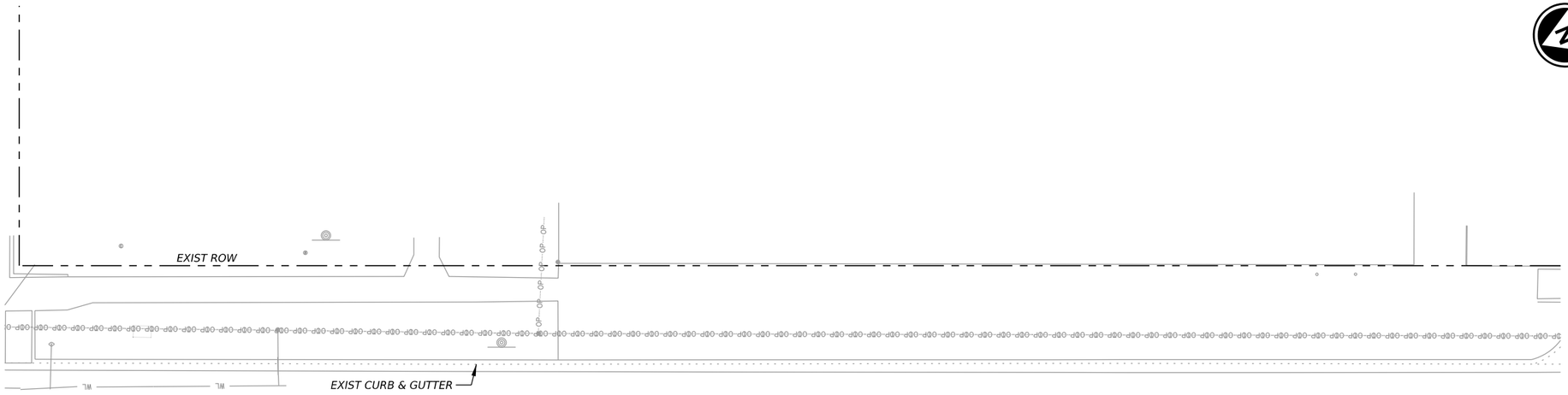

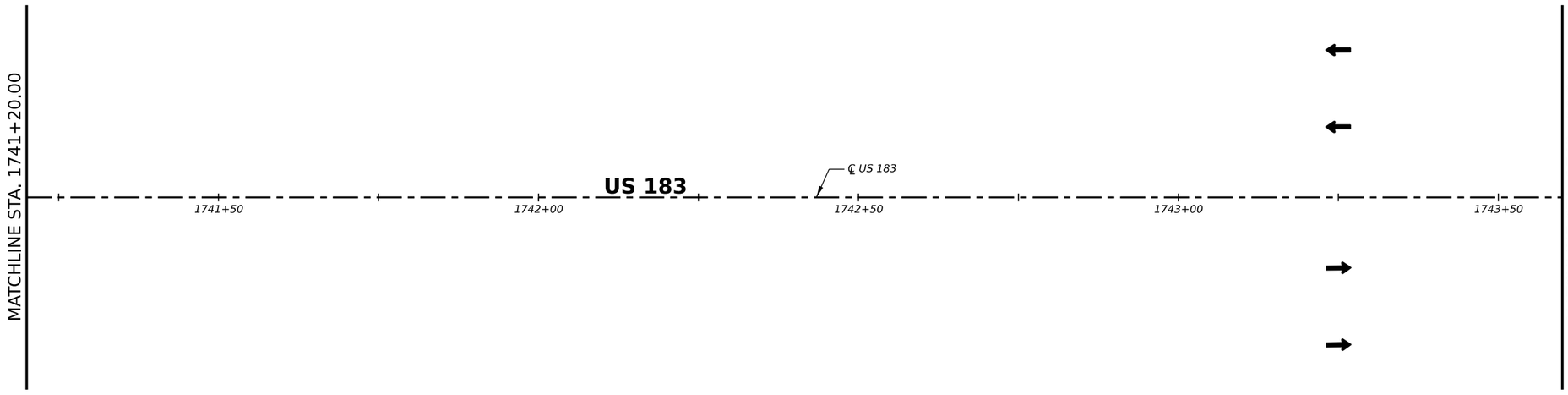

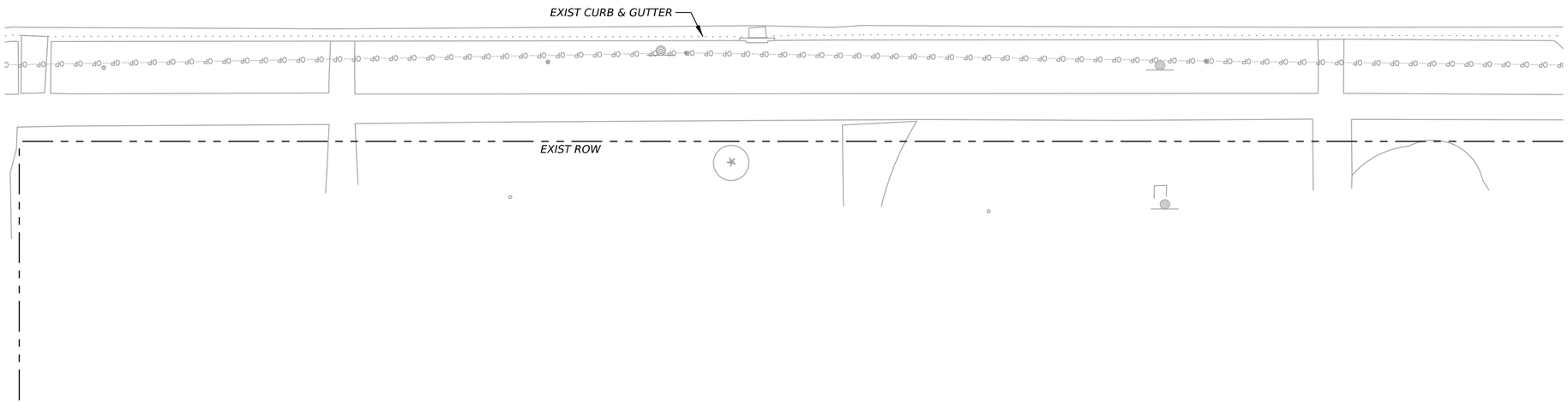

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. NO PROPOSED WORK ON THIS SHEET.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 23 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		120

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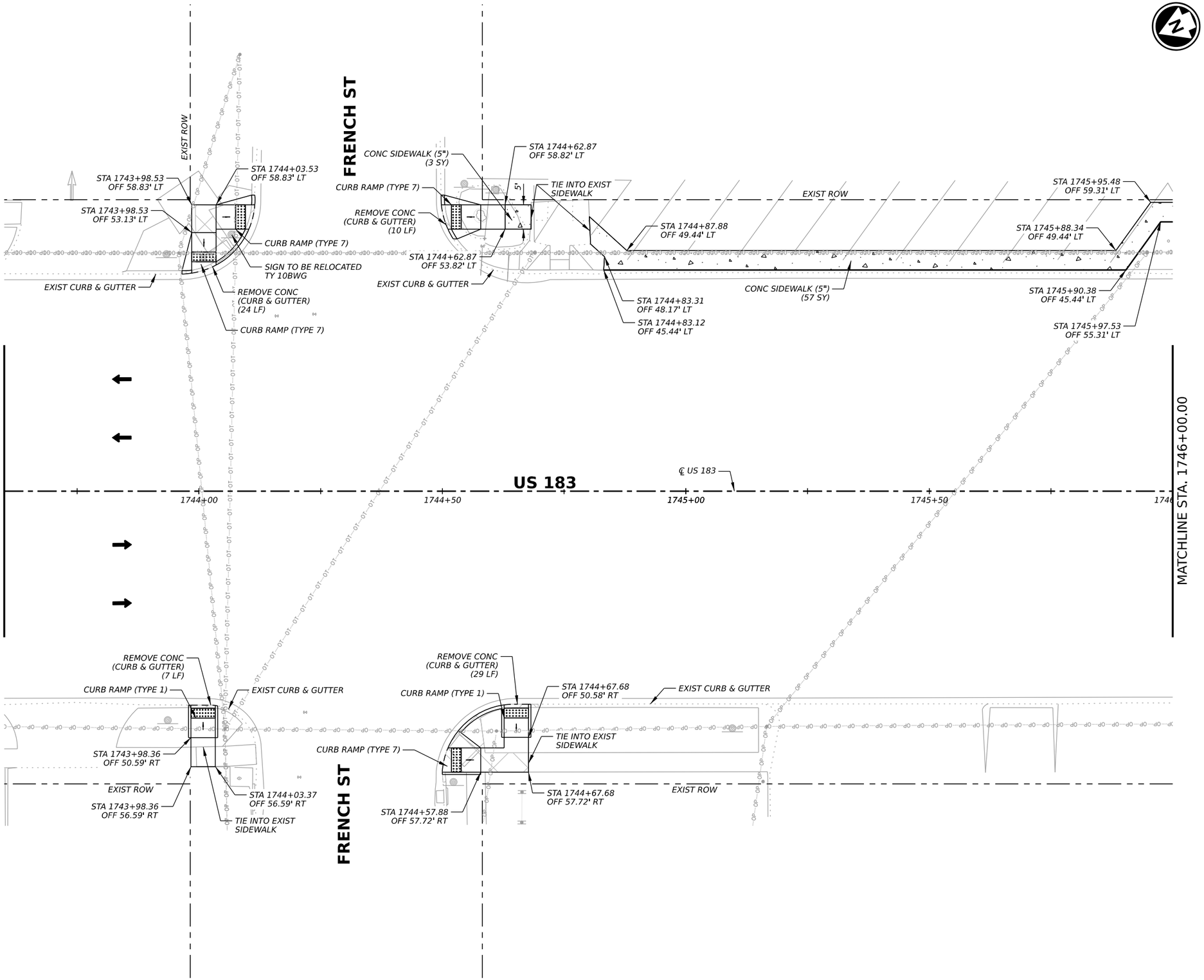

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 183 CUERO CSJ: 0269-06-060

SHEET 24 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		121

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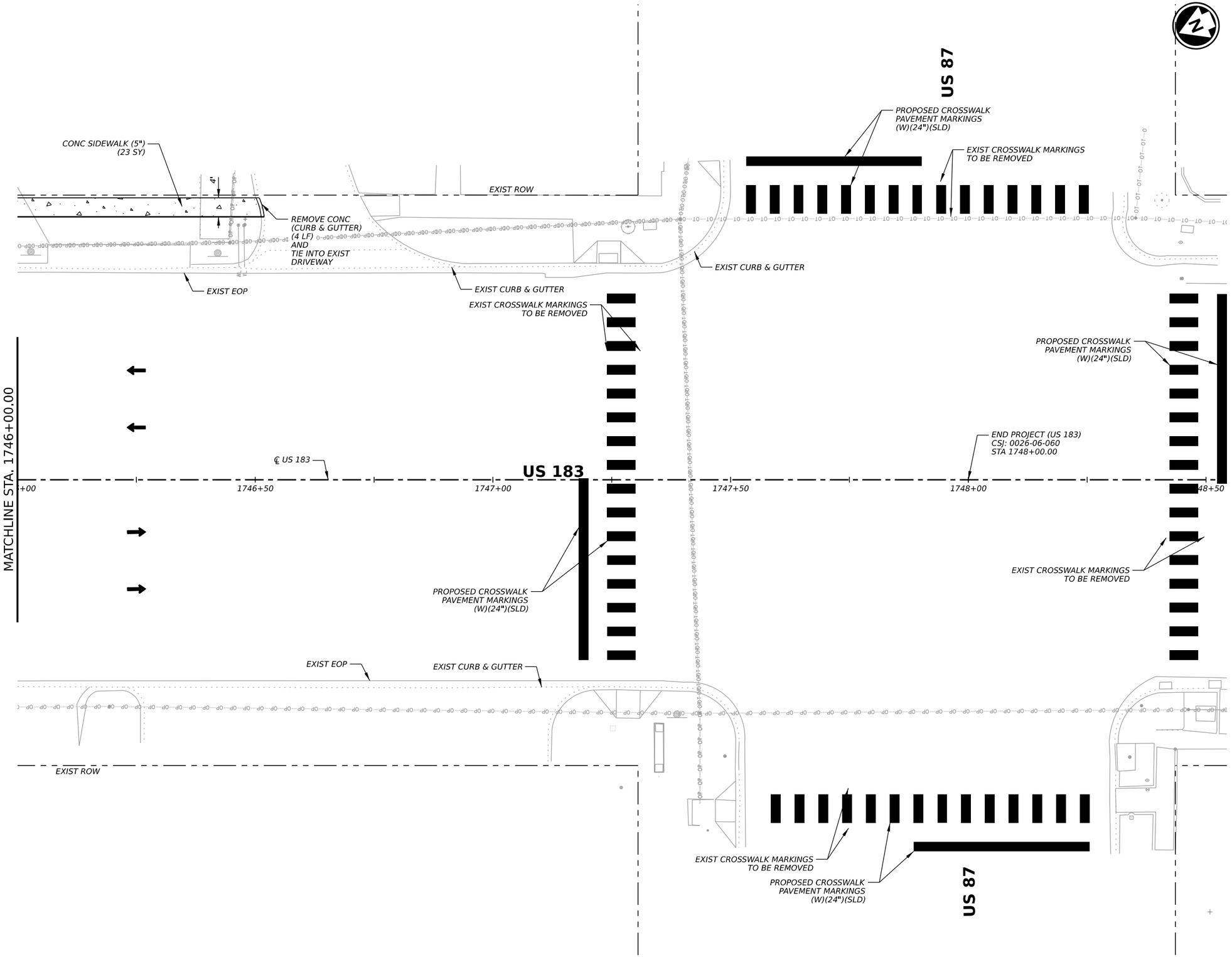

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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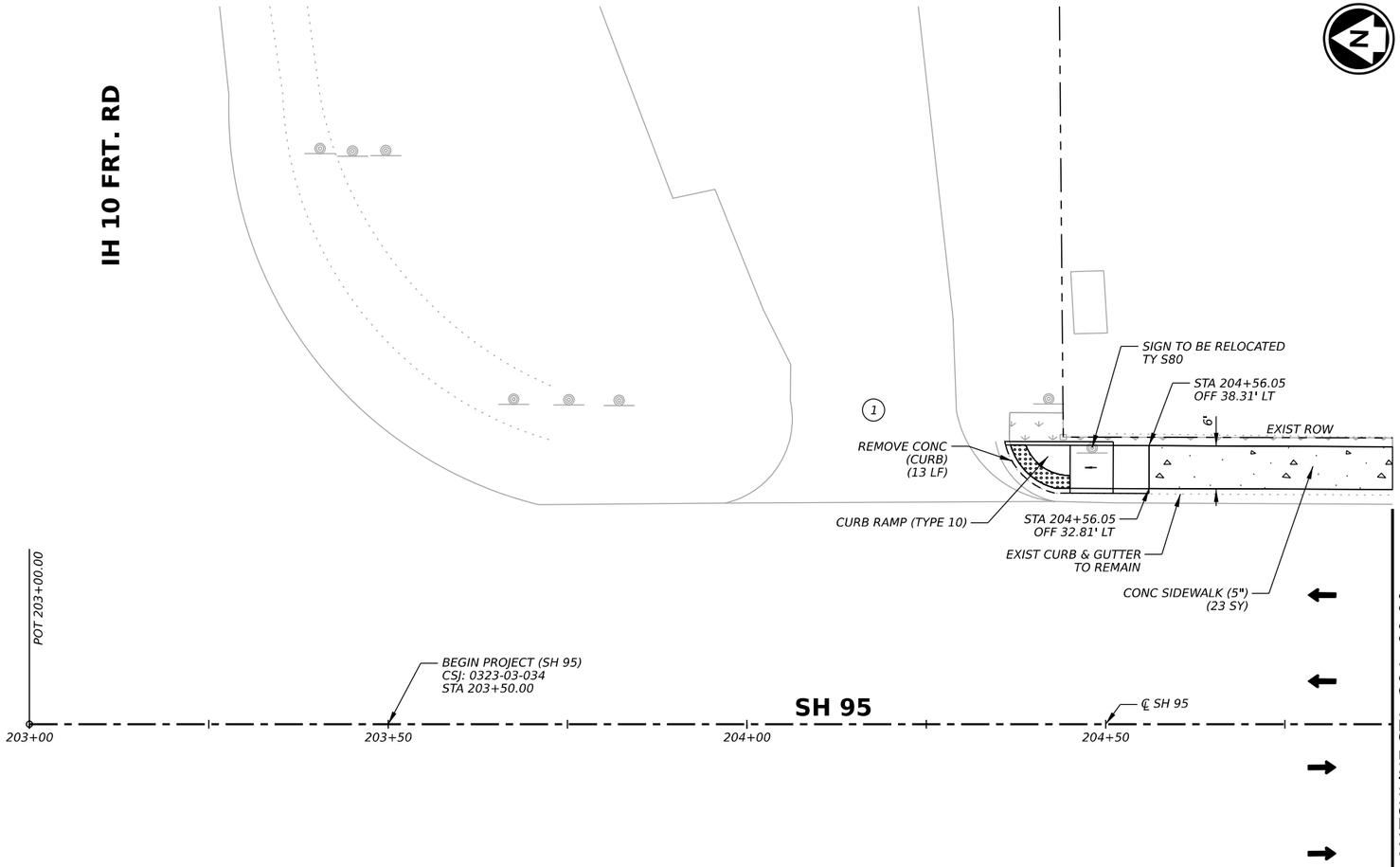
Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 183 CUERO
CSJ: 0269-06-060

SHEET 25 OF 25

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		122



LEGEND

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 1 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		123

DATE: 6/4/2024 6:39:18 PM
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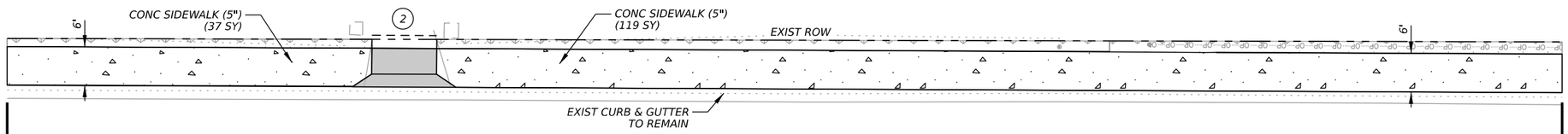

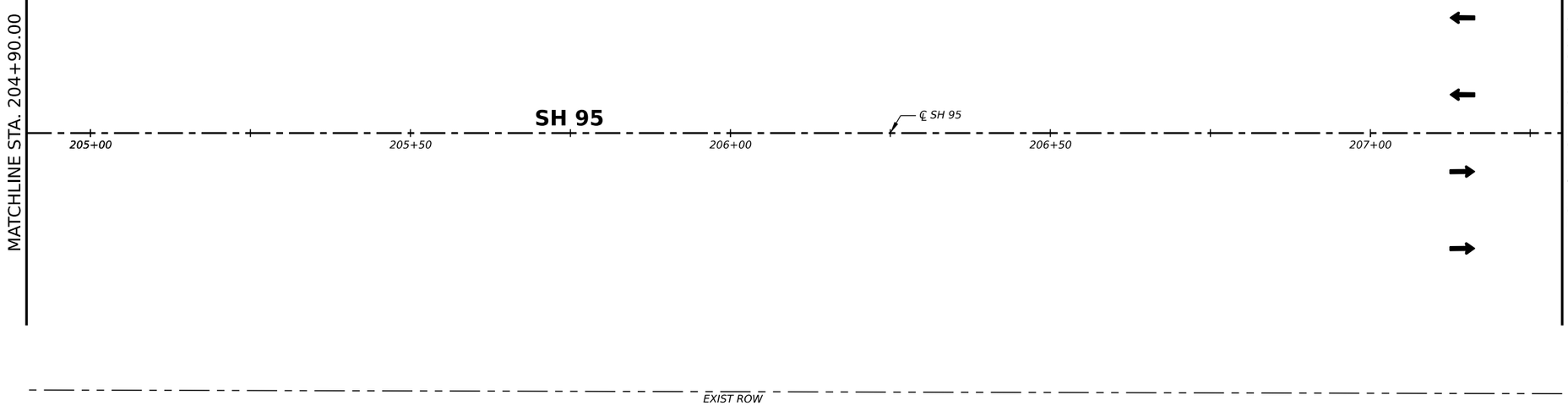

LEGEND

- DIRECTION OF TRAFFIC
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- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
SH 95 FLATONIA
CSJ: 0323-03-034

SHEET 2 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		124

DATE: 6/4/2024 6:39:24 PM
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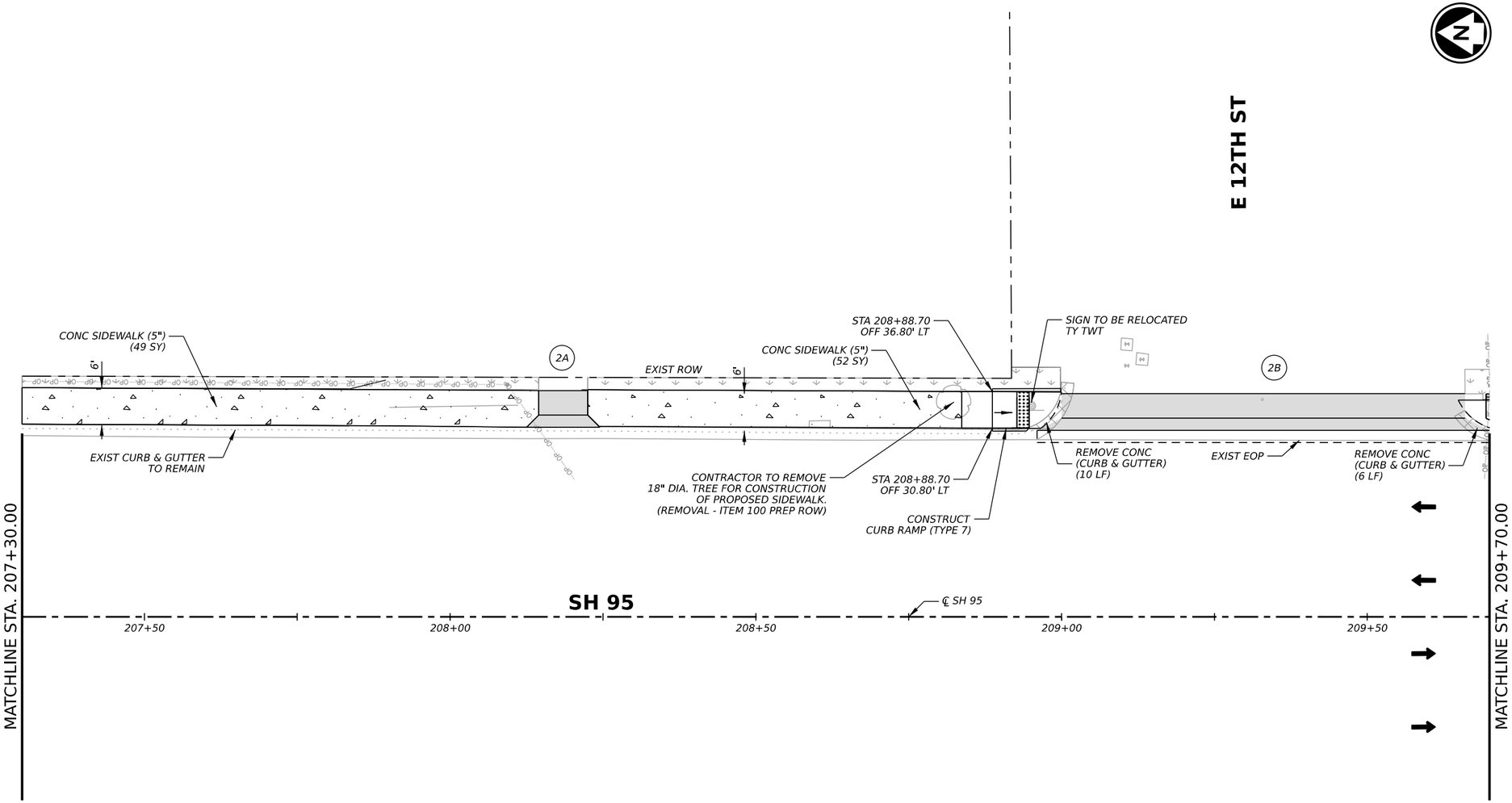

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
SH 95 FLATONIA
CSJ: 0323-03-034

SHEET 3 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		125

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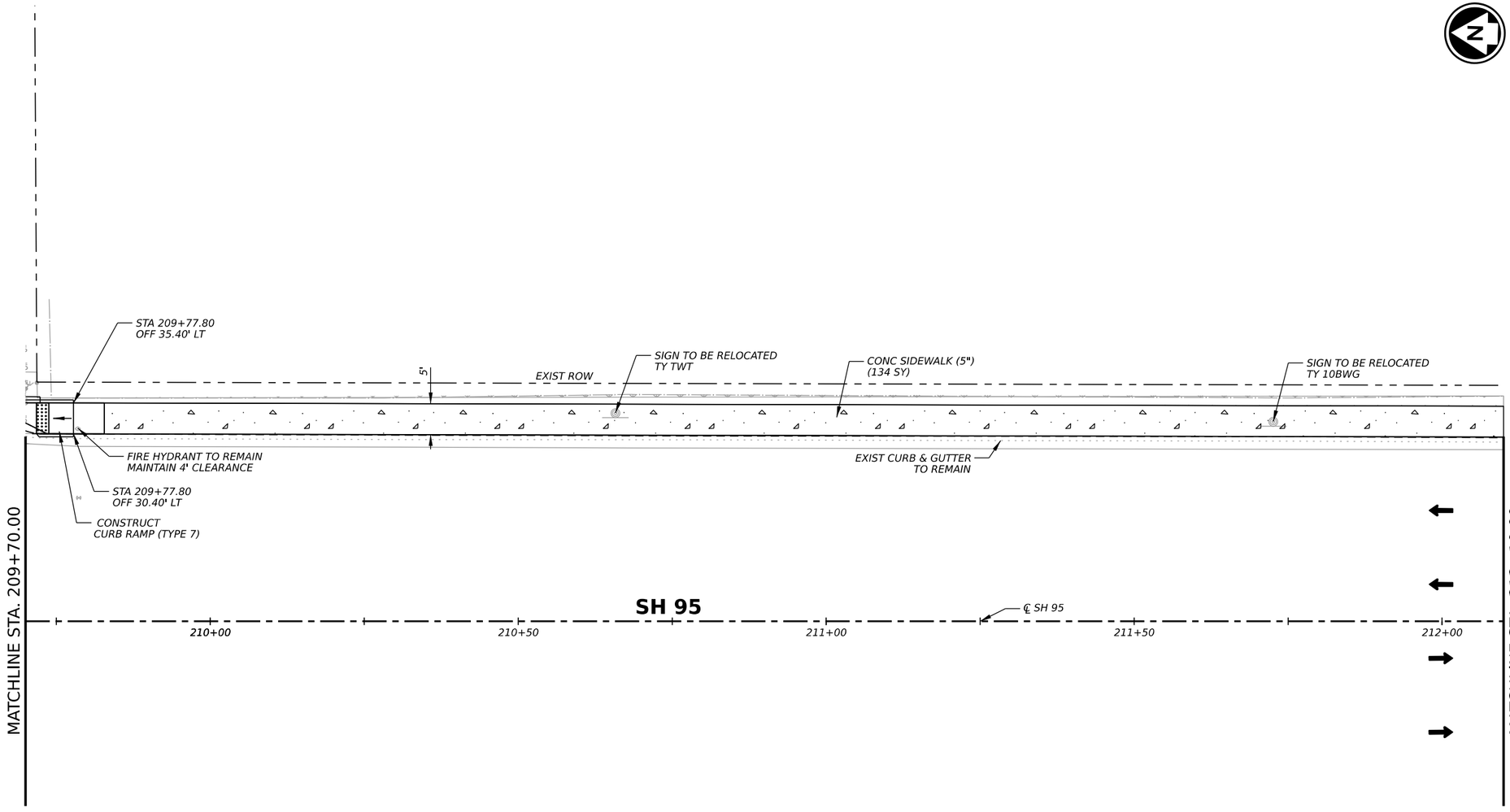

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
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- SIDEWALK
- REMOVAL (CONCRETE)
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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 4 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		126

DATE: 6/4/2024 6:39:35 PM
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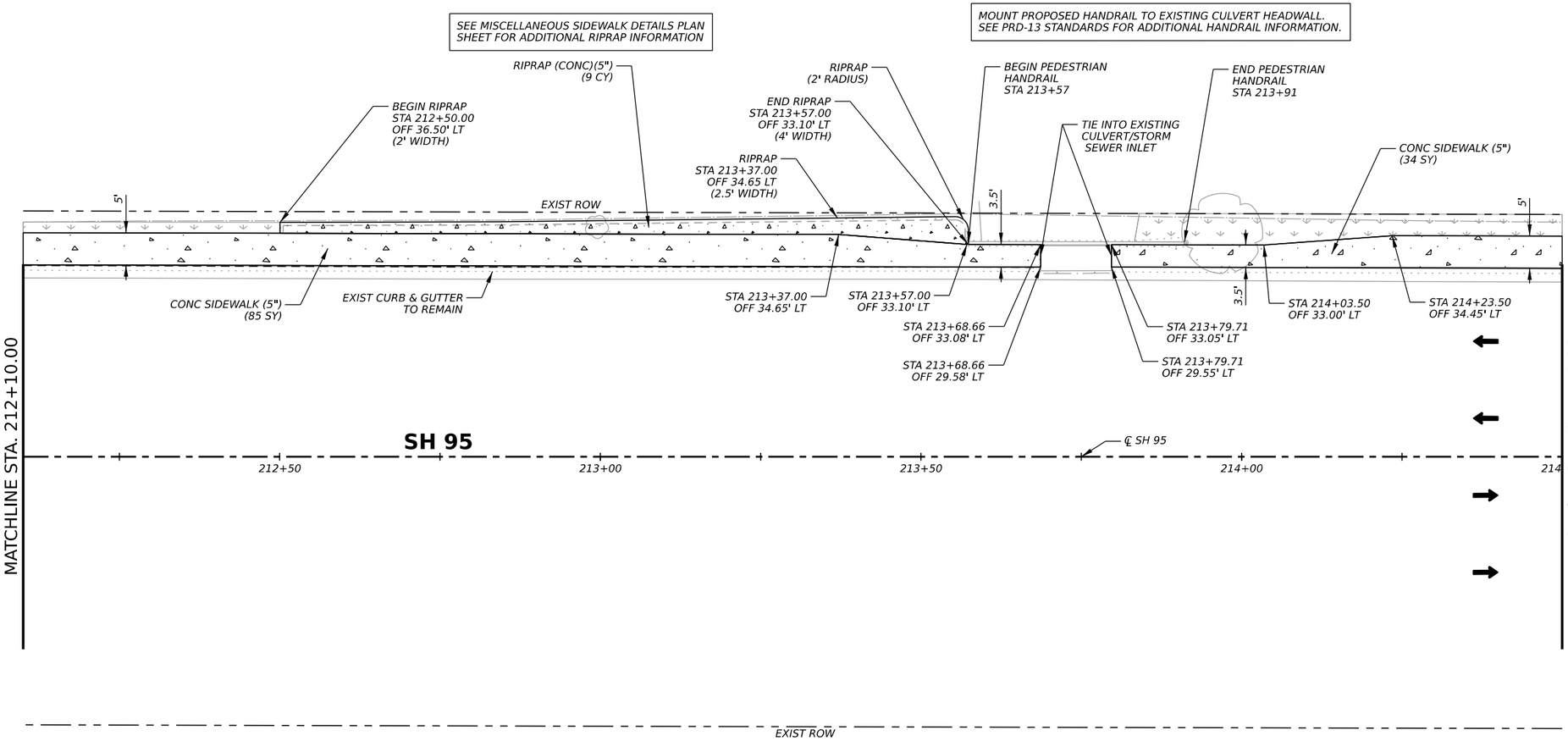

LEGEND

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- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 5 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		127

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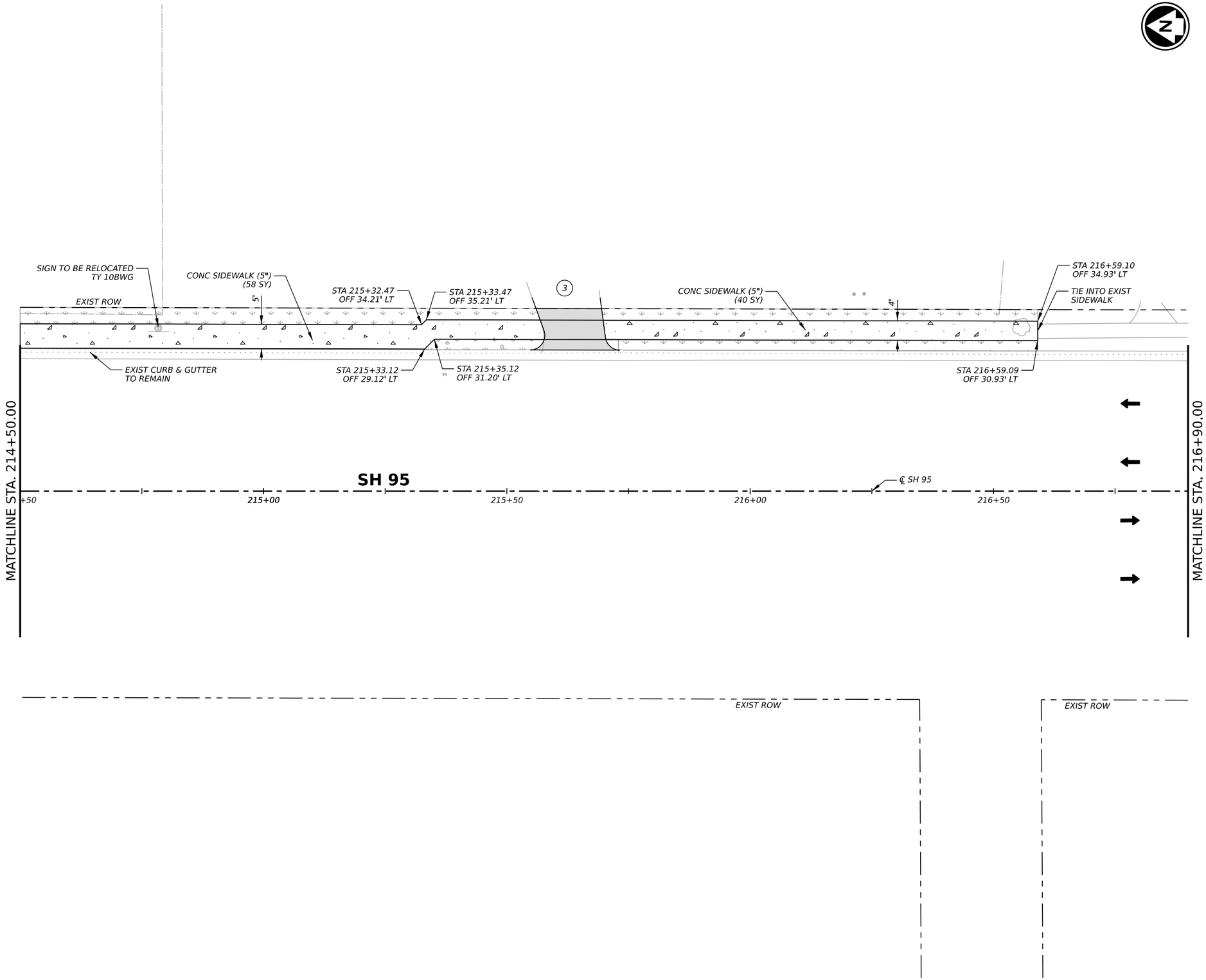

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
SH 95 FLATONIA
CSJ: 0323-03-034

SHEET 6 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		128

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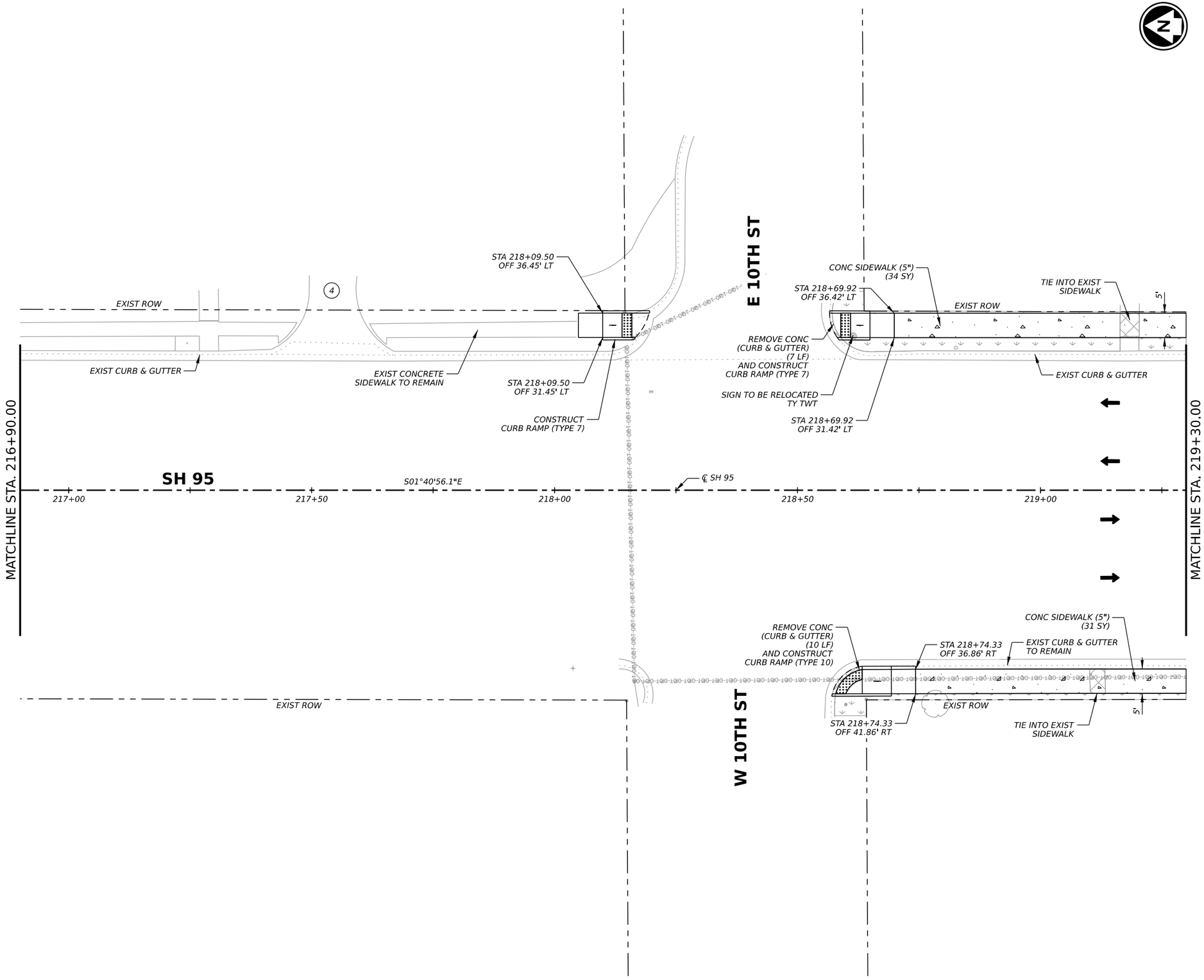

LEGEND

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- DRIVEWAY (PROP RECONSTRUCTION)
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- REMOVAL (CONCRETE)
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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 7 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		129

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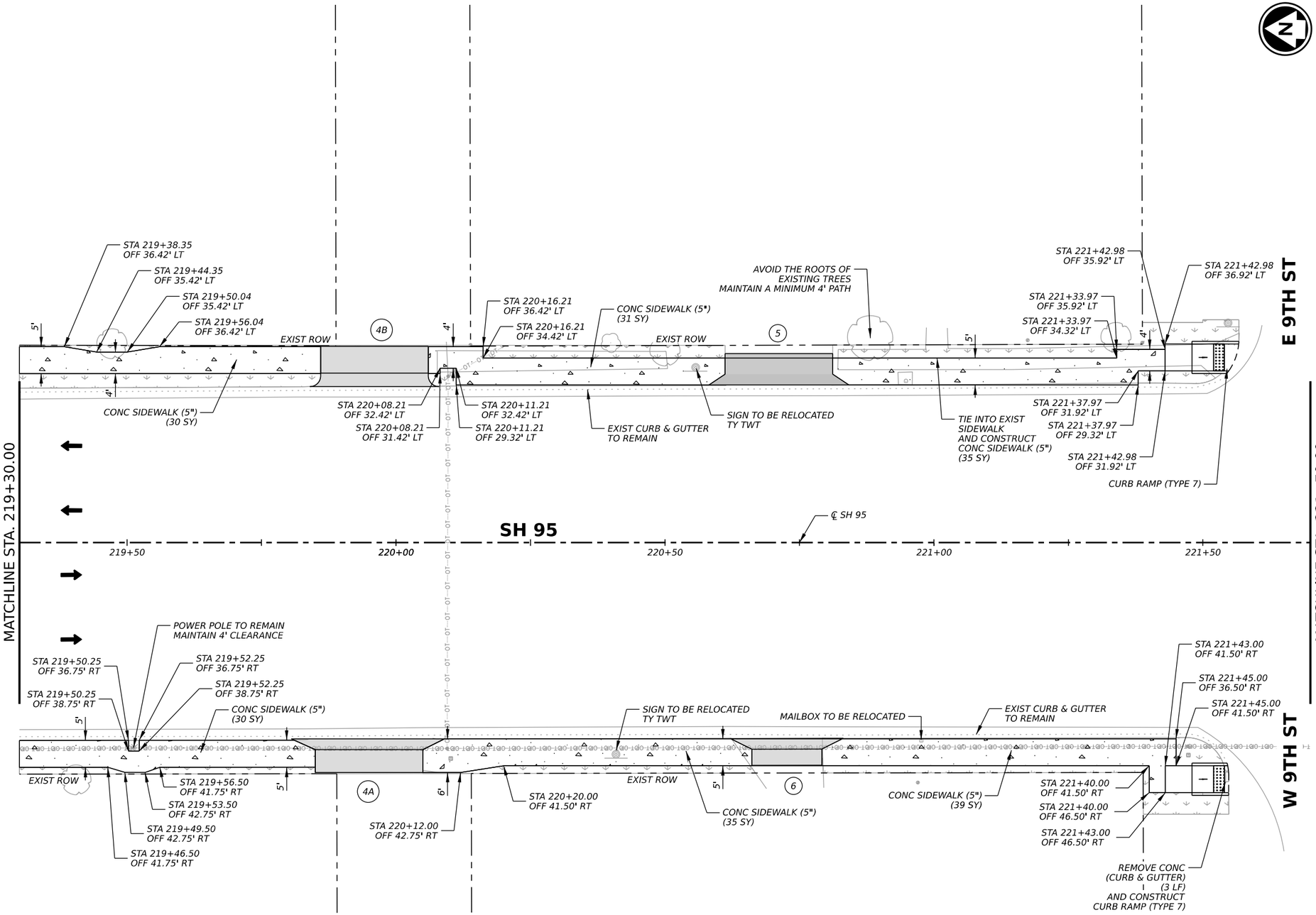

LEGEND

- DIRECTION OF TRAFFIC
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
SH 95 FLATONIA
CSJ: 0323-03-034

SHEET 8 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		130

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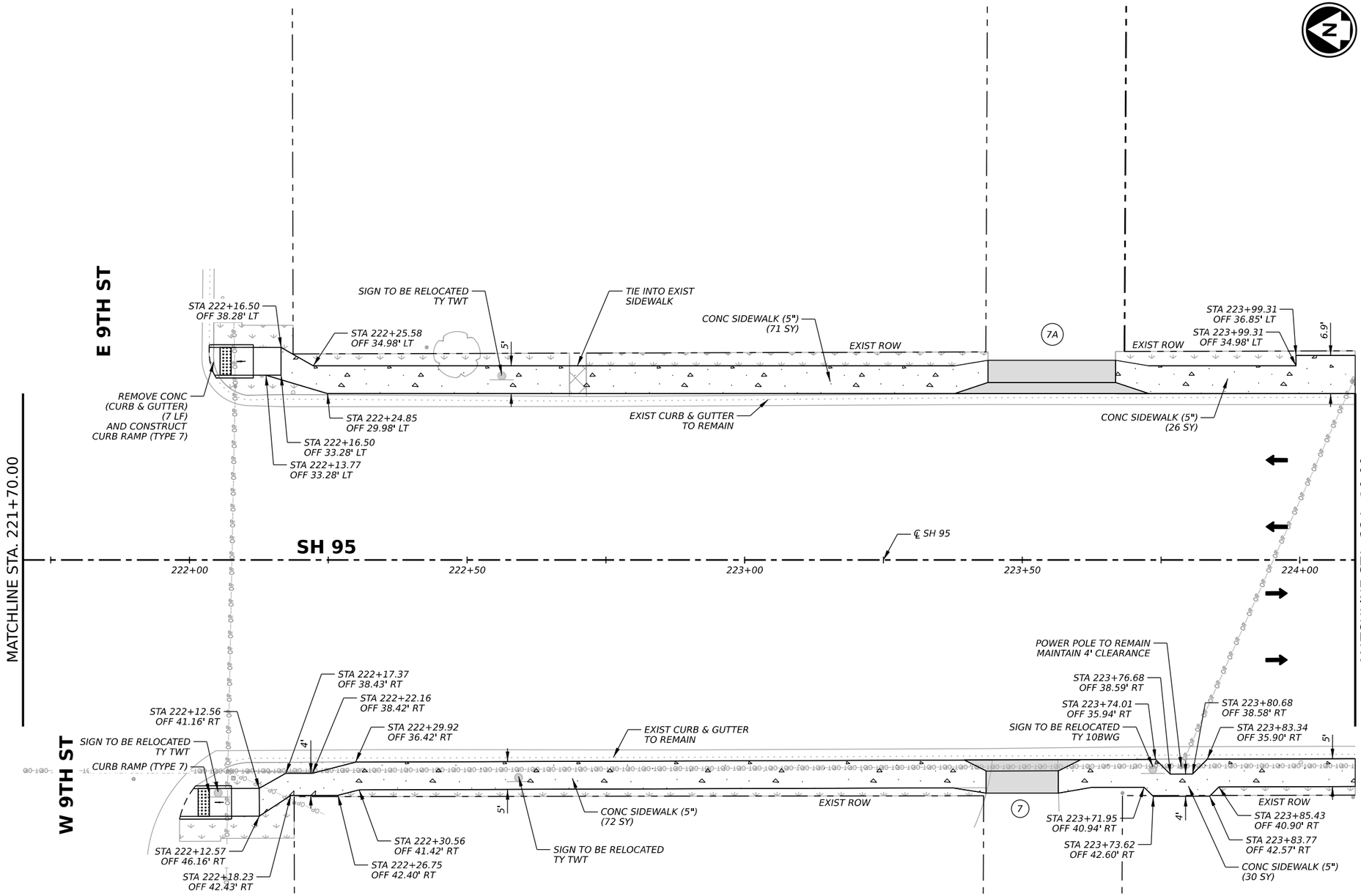

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 9 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		131

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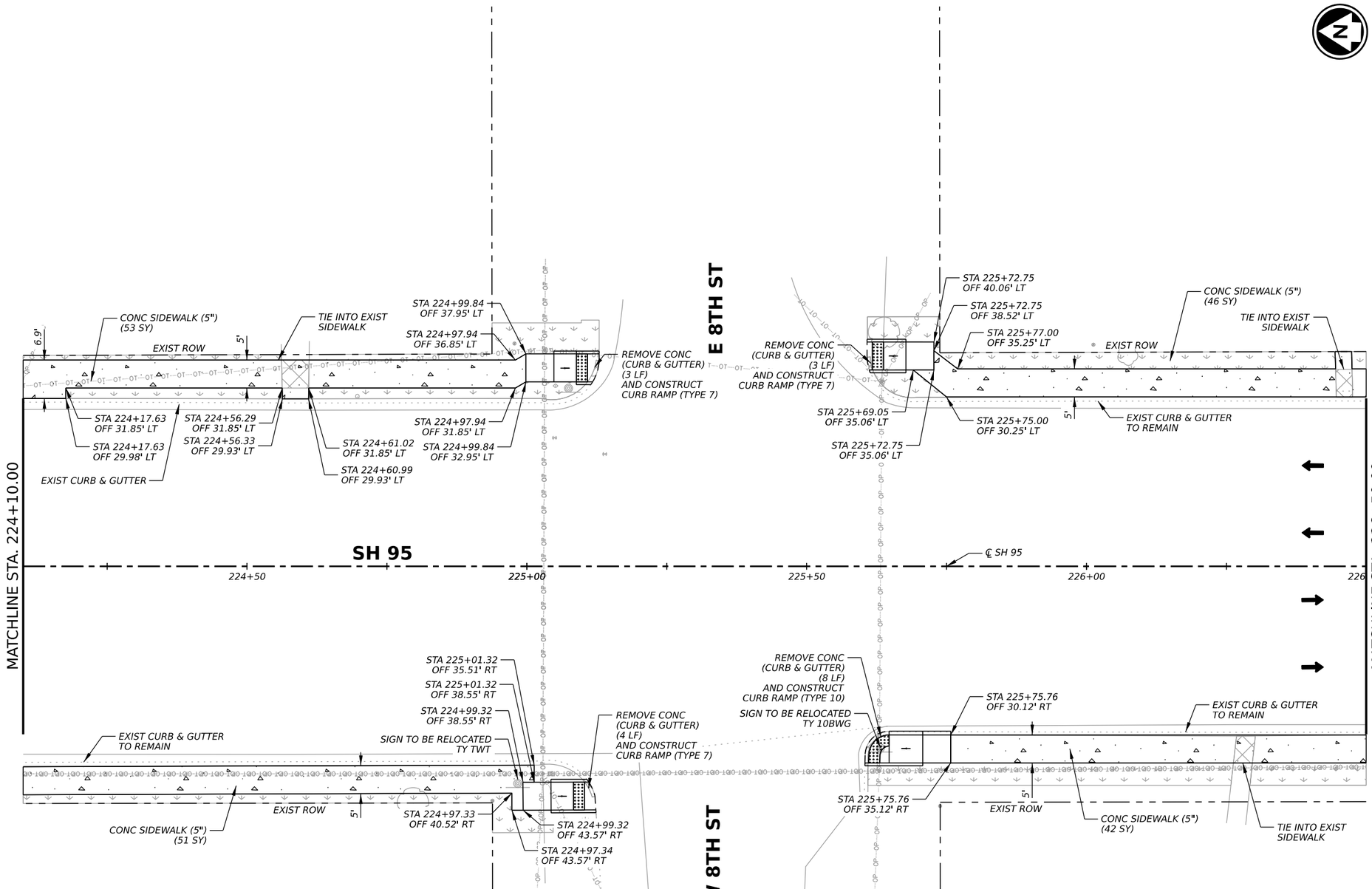

LEGEND

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SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 10 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		132

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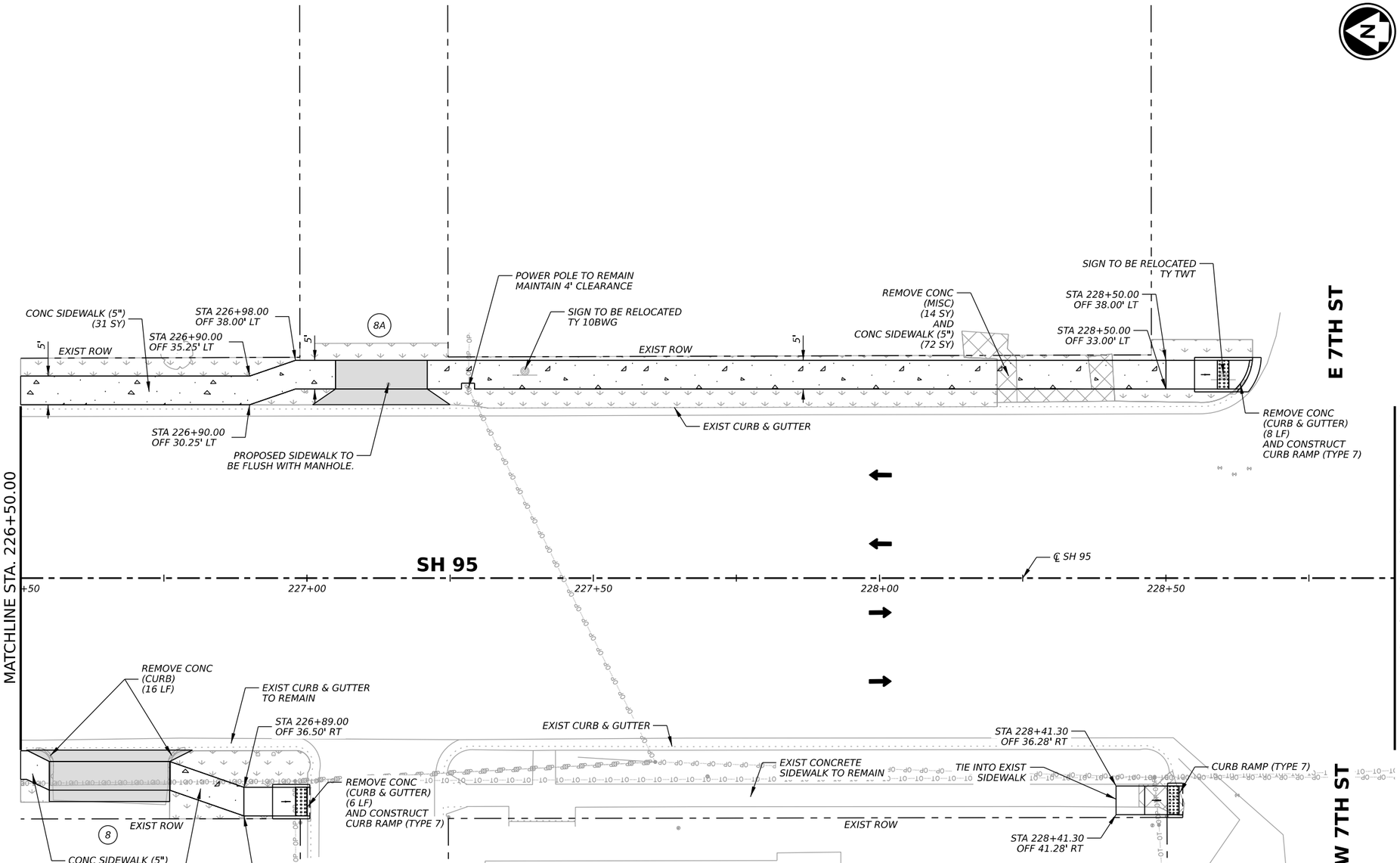

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 11 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		133

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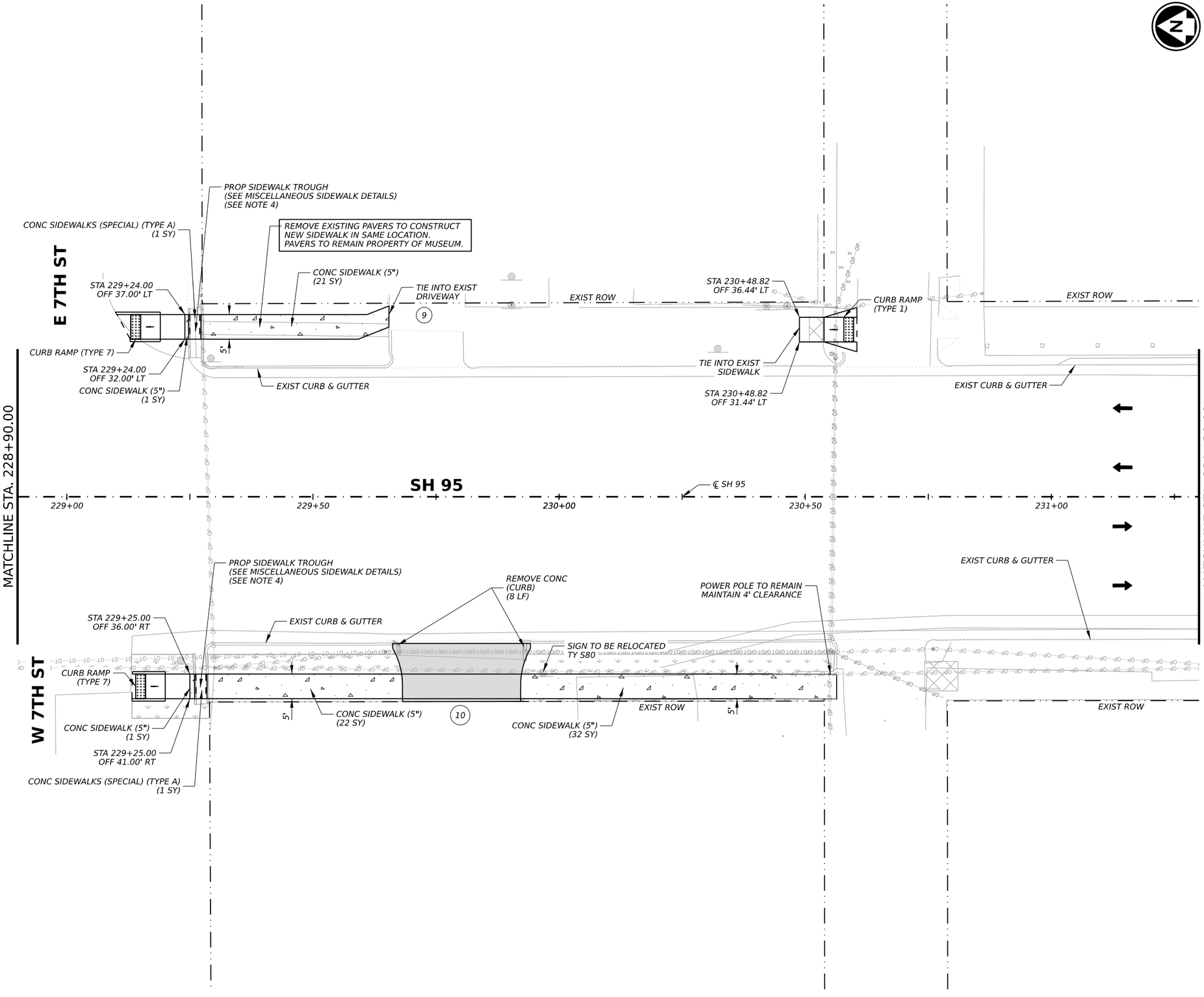
DW: | CK:
DW: | CK:



LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

Angela Renger

6/5/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 12 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		134

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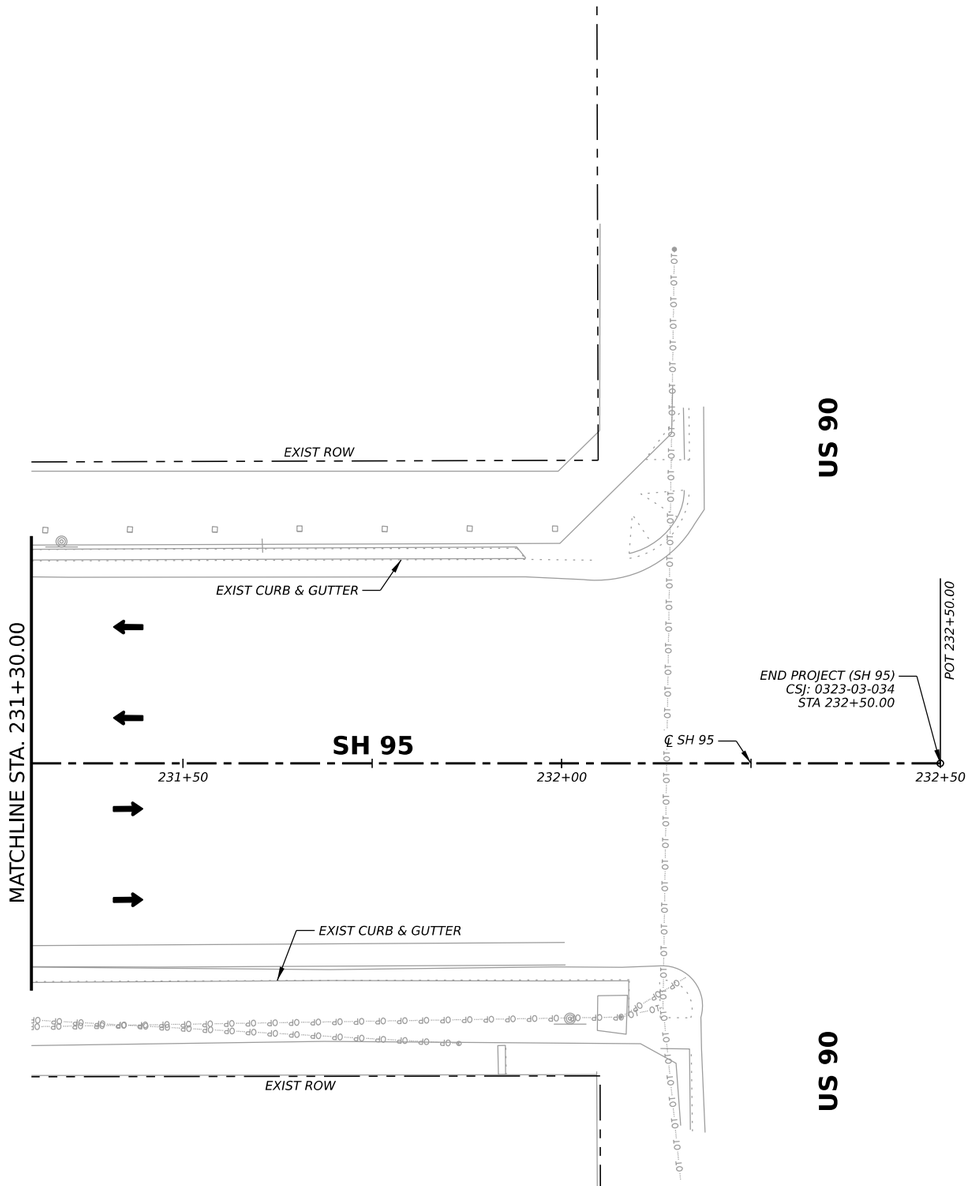

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. NO PROPOSED WORK ON THIS SHEET.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT SH 95 FLATONIA CSJ: 0323-03-034

SHEET 13 OF 13

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		135

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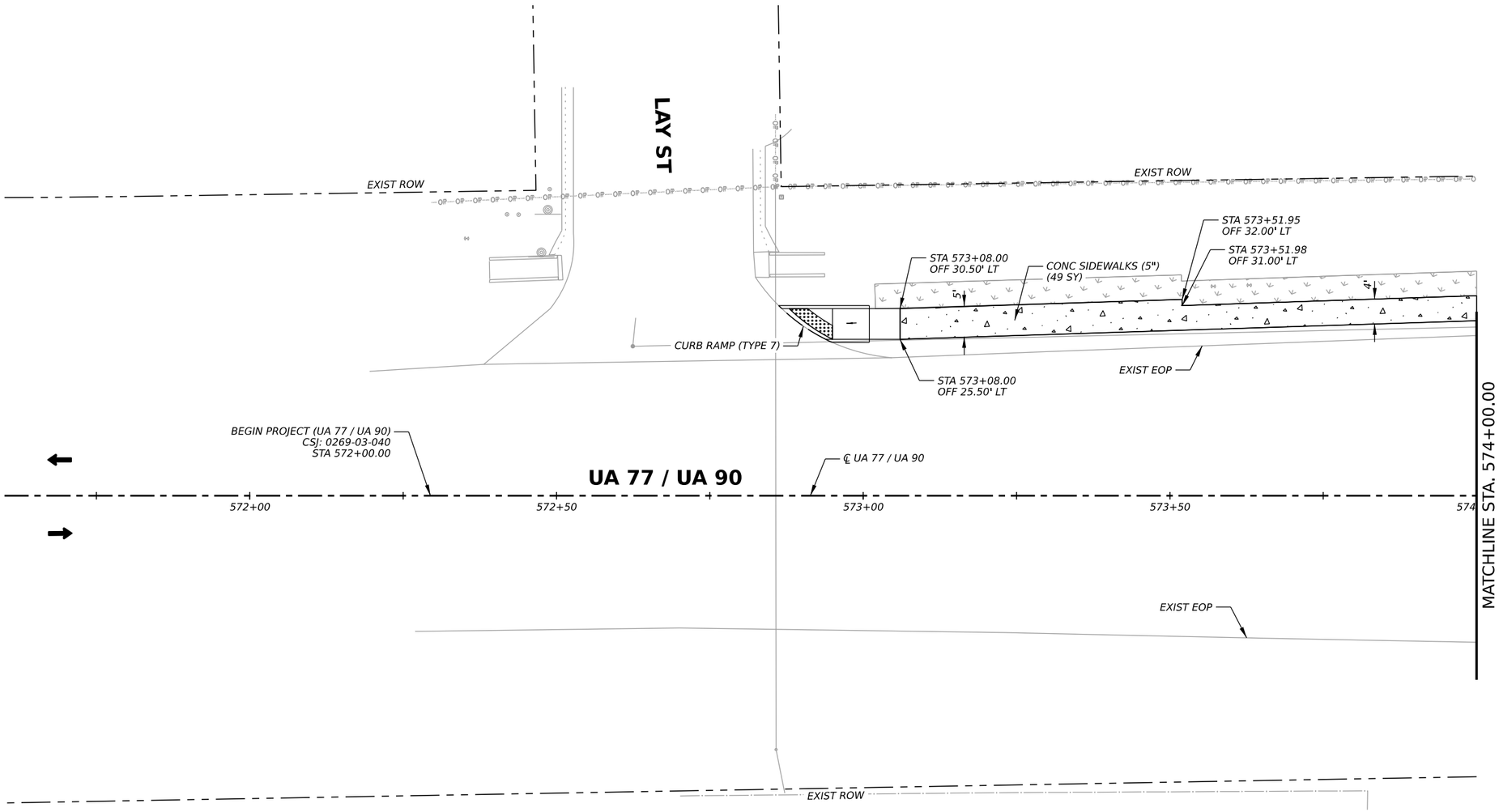

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
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SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77/UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 1 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		136

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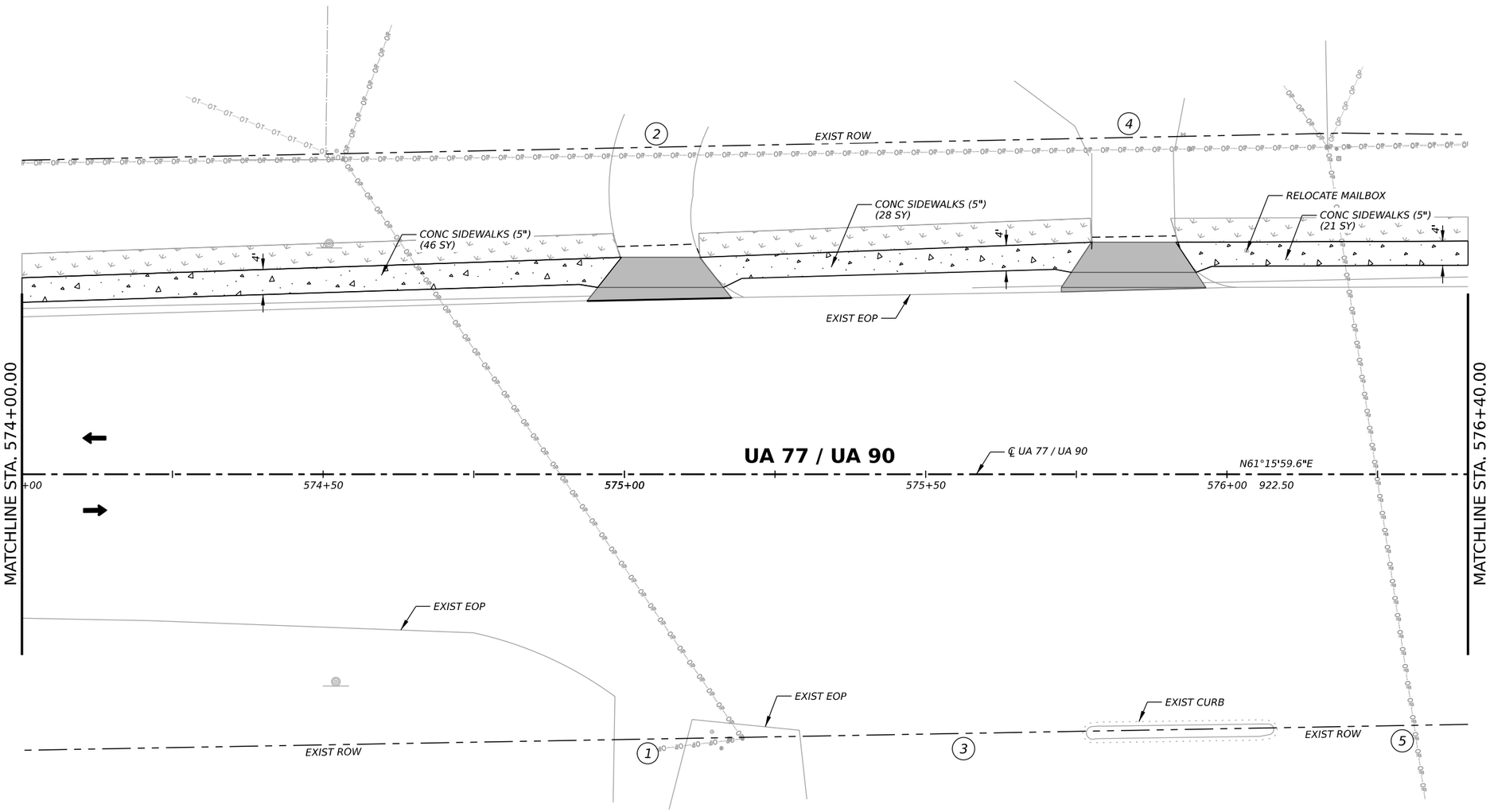

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77/UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 2 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		137

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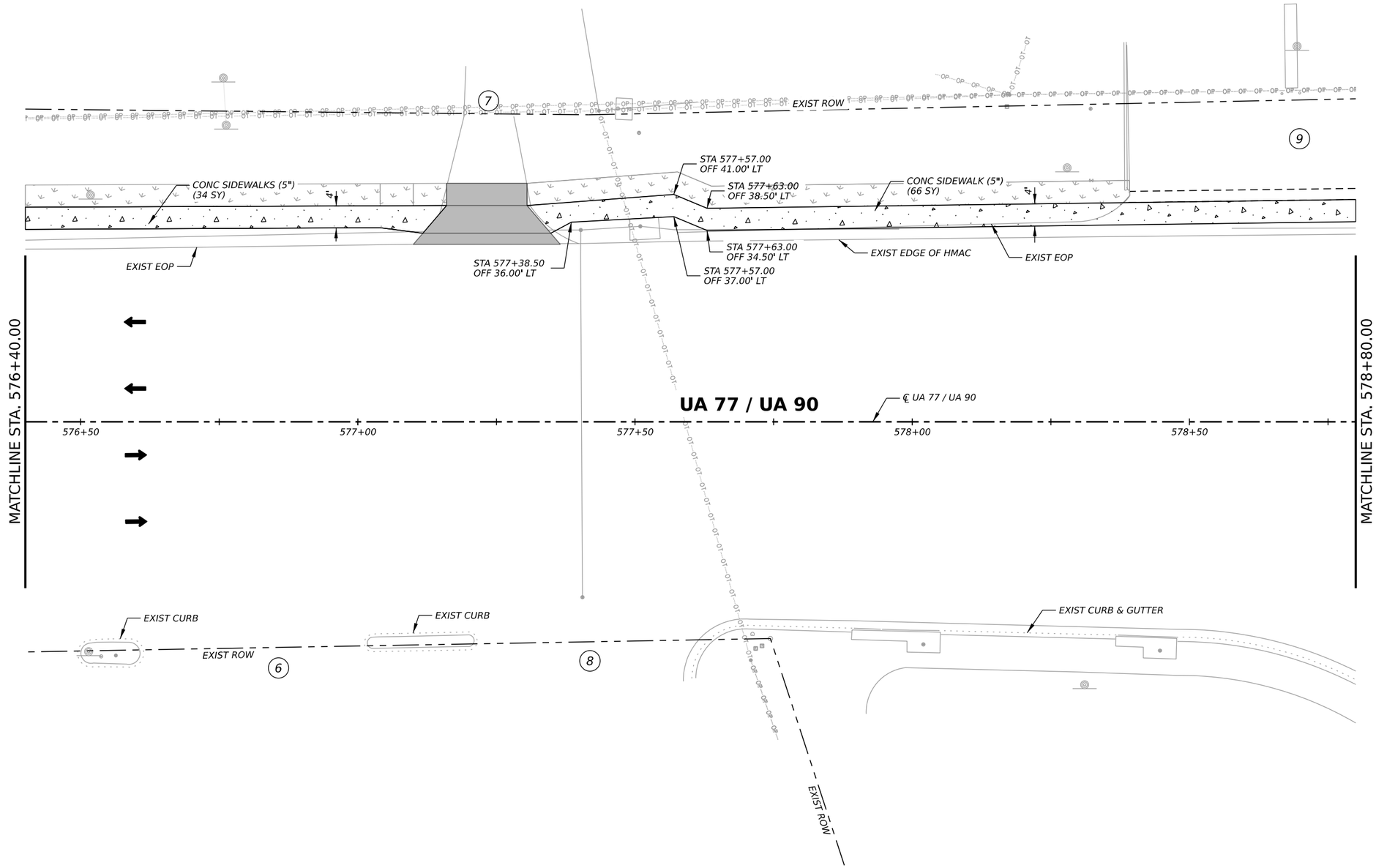

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 3 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		138

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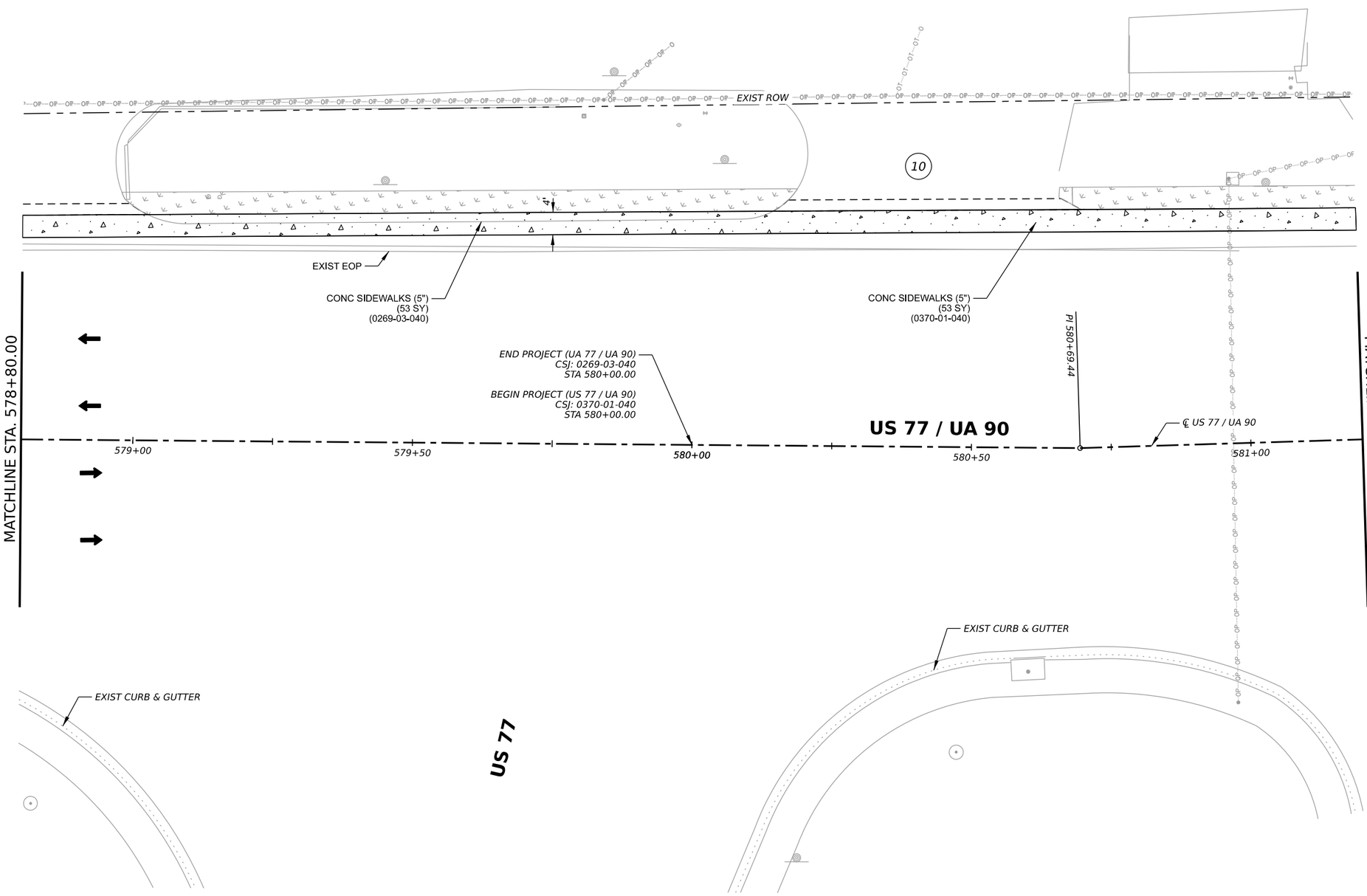

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 4 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		139

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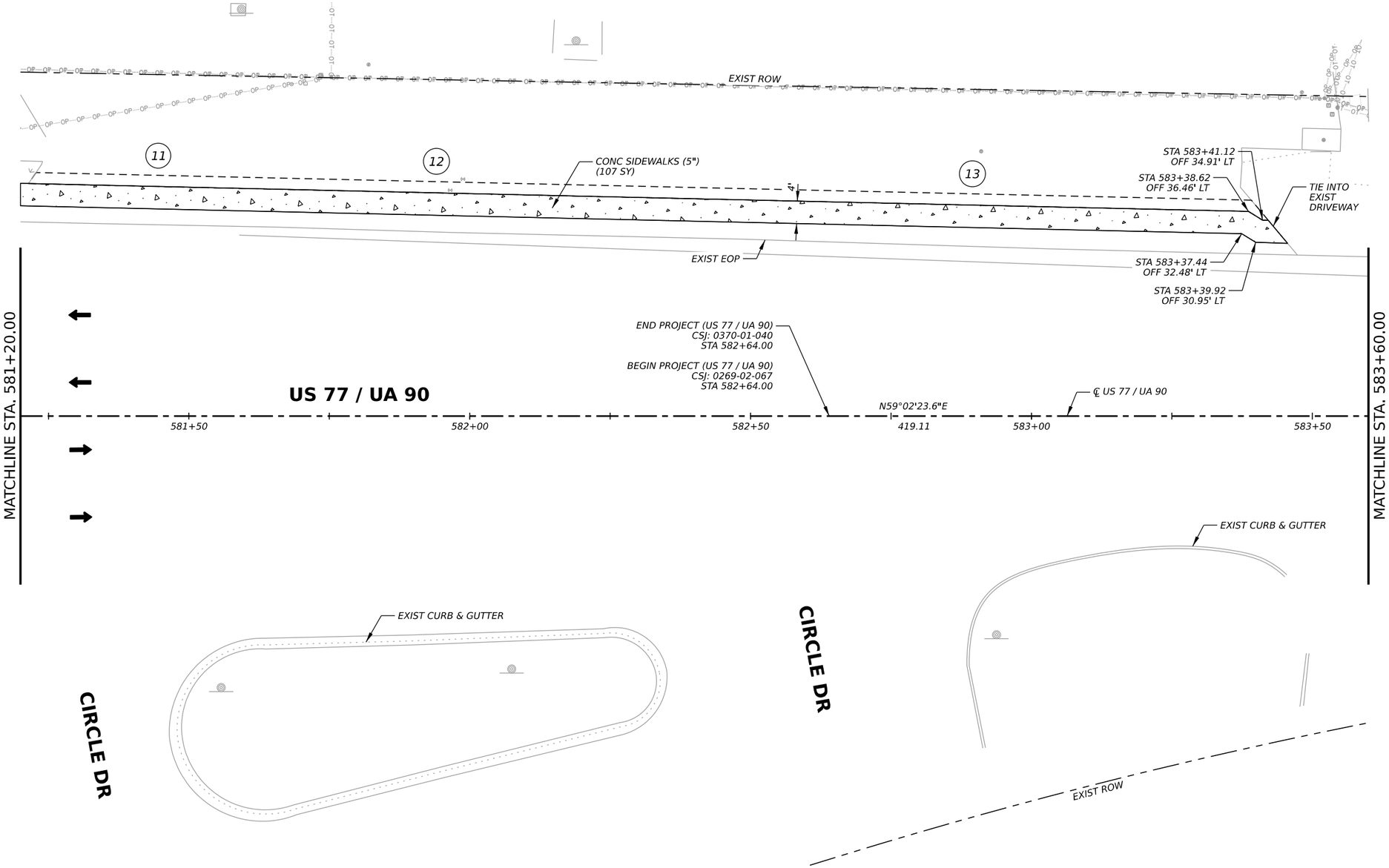

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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SCALE: 1" = 20'

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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 5 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		140

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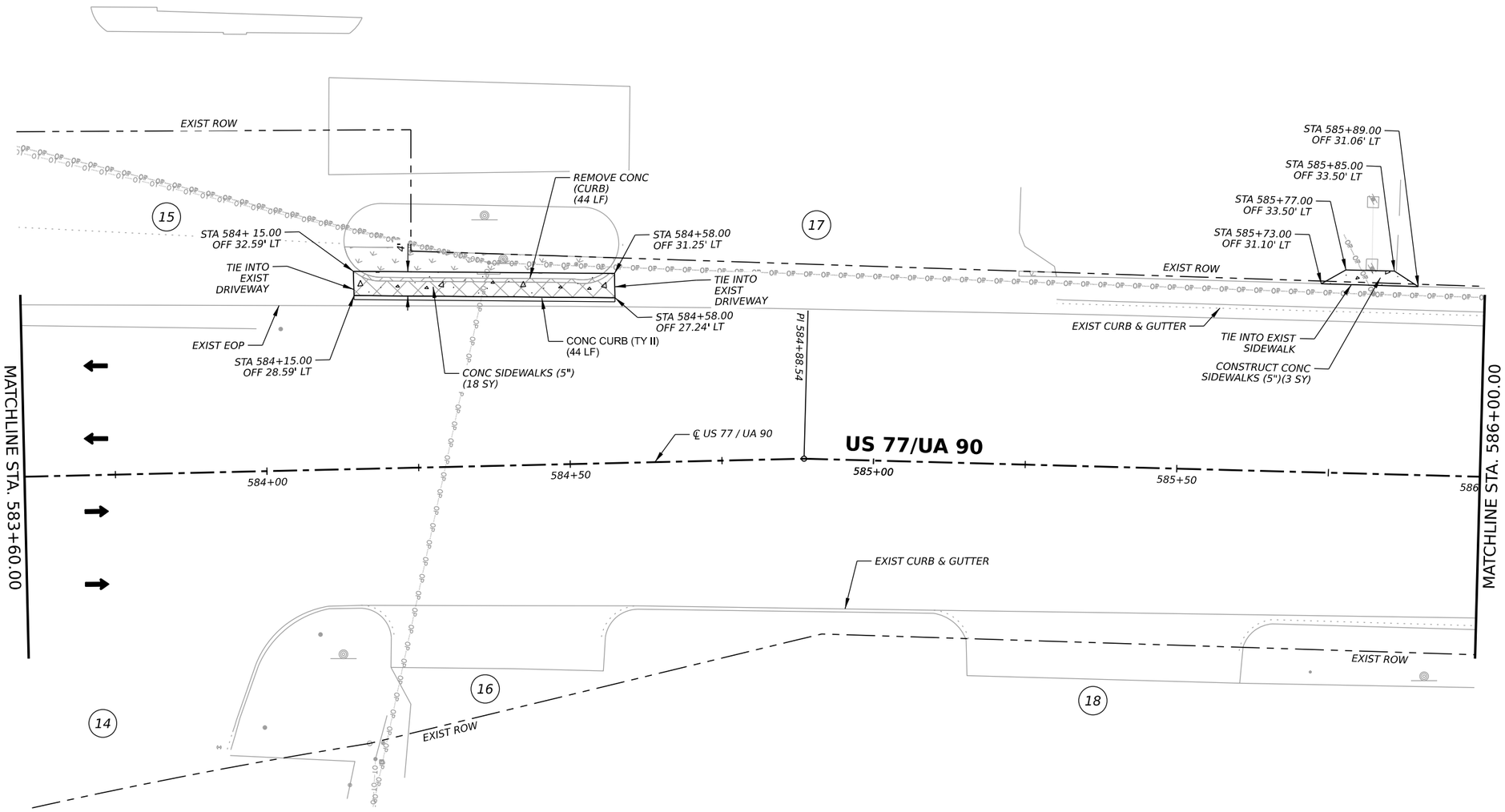

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 6 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		141

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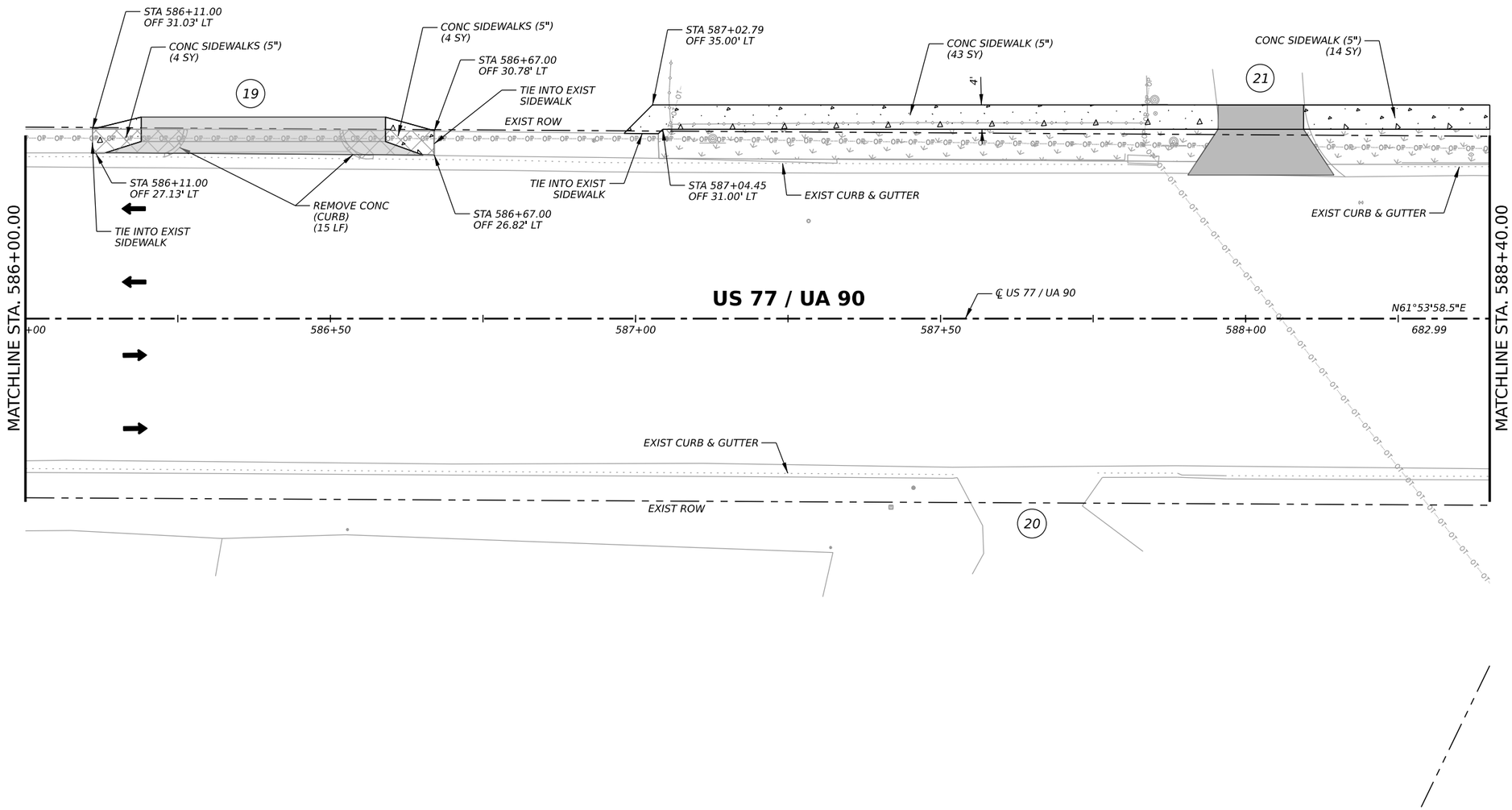

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77/UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 7 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		142

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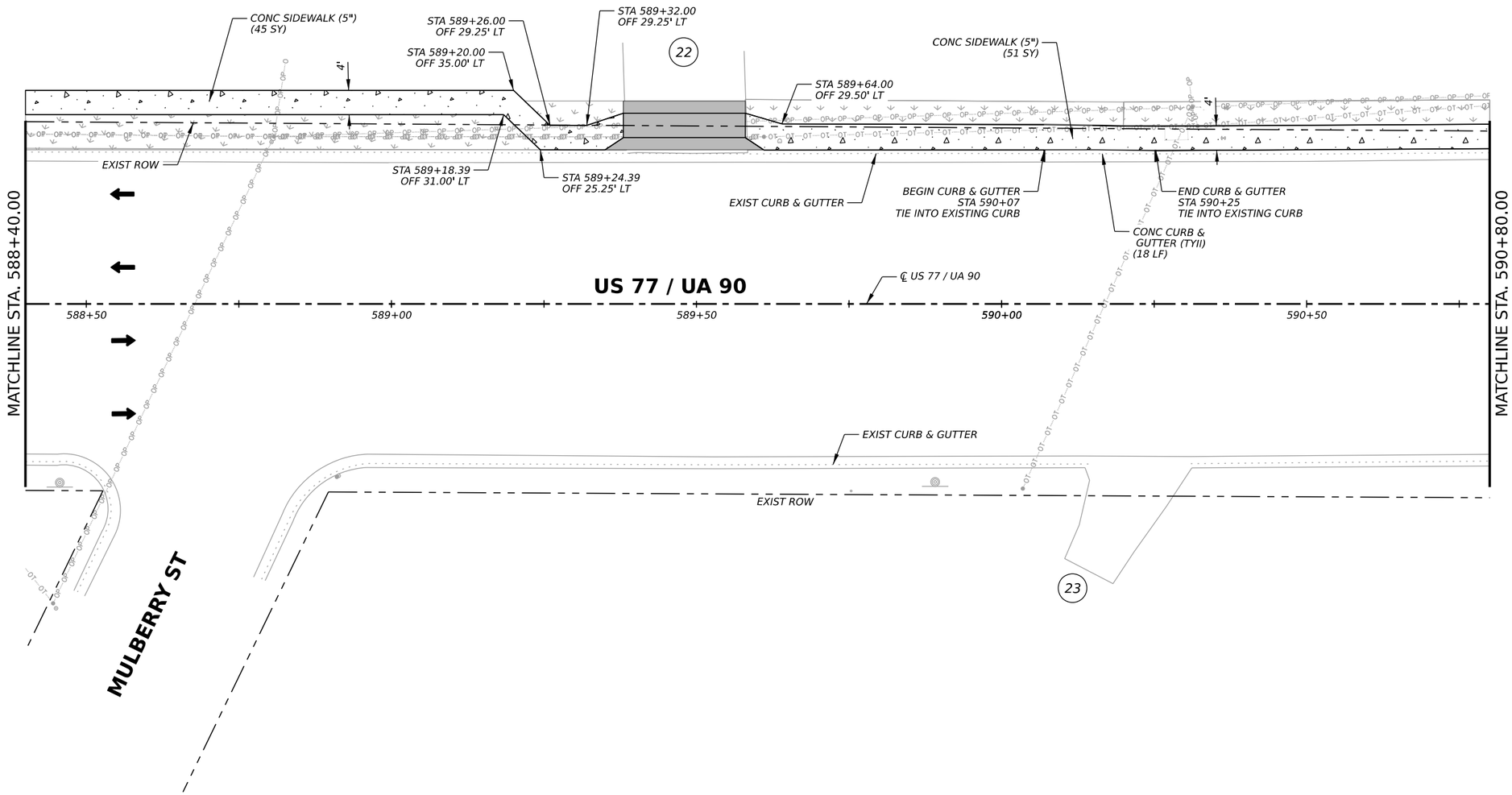

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 8 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		143

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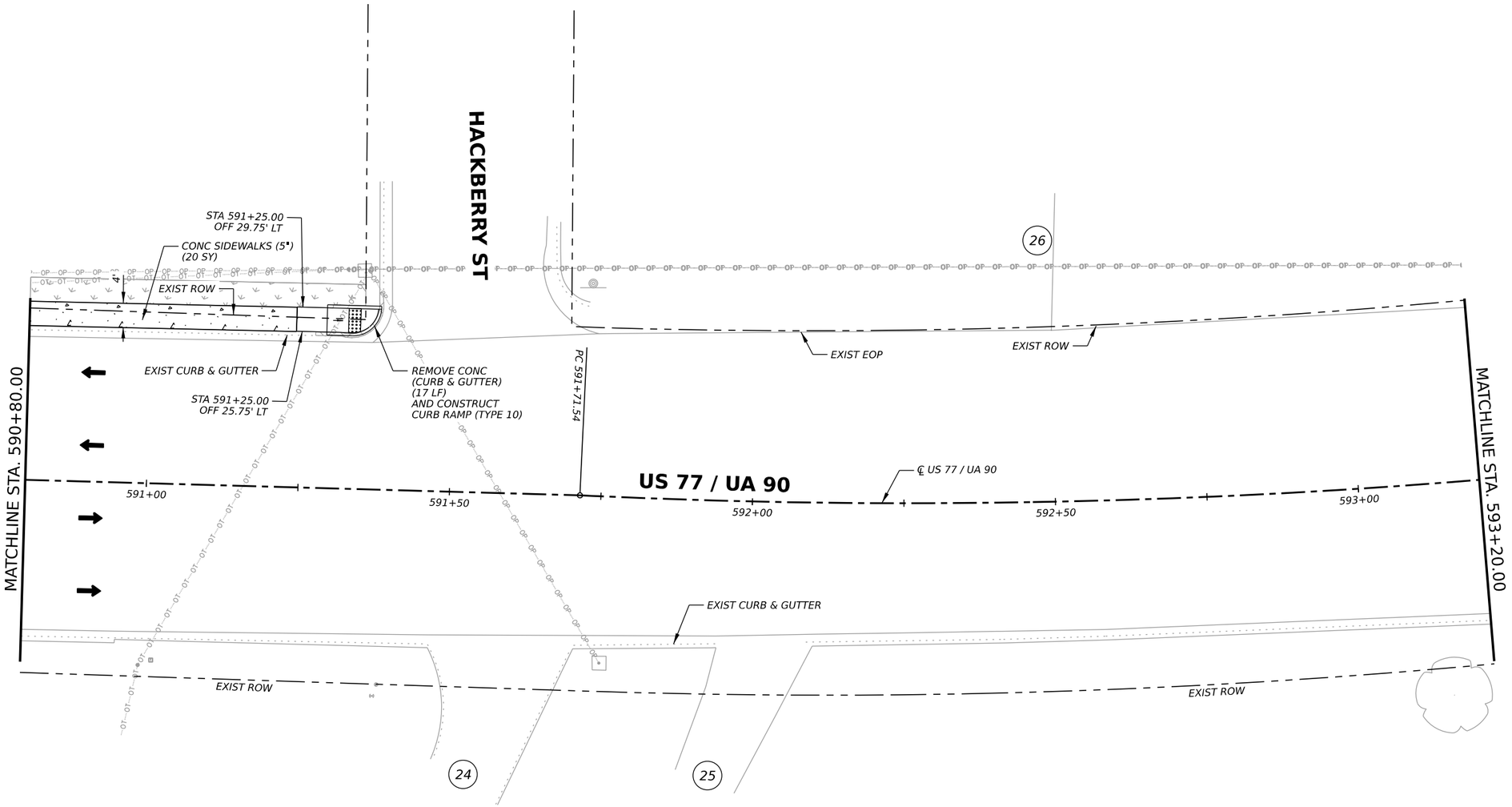

LEGEND

- DIRECTION OF TRAFFIC
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- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77/UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 9 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, etc.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		144

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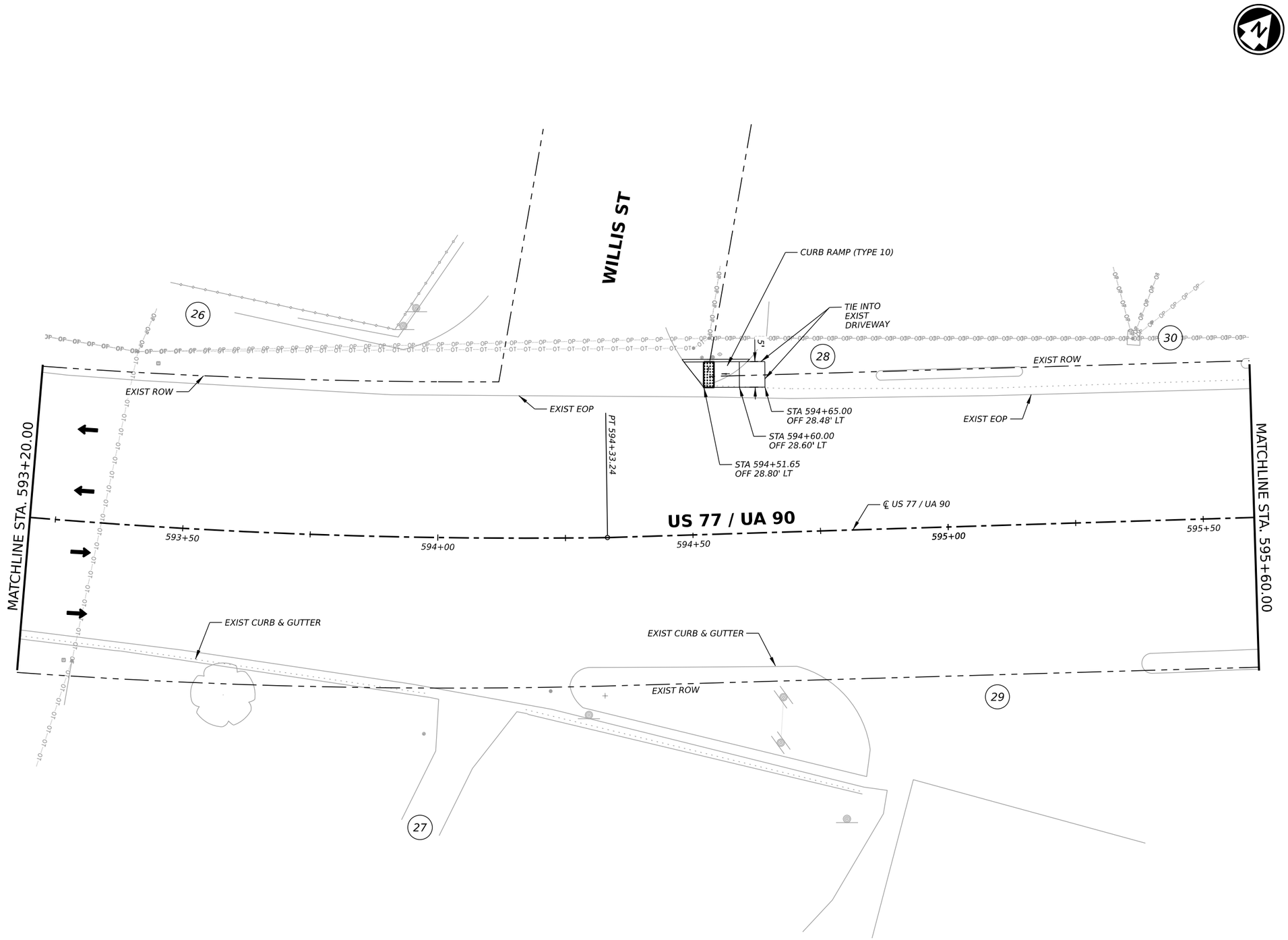

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
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PROFESSIONAL ENGINEER

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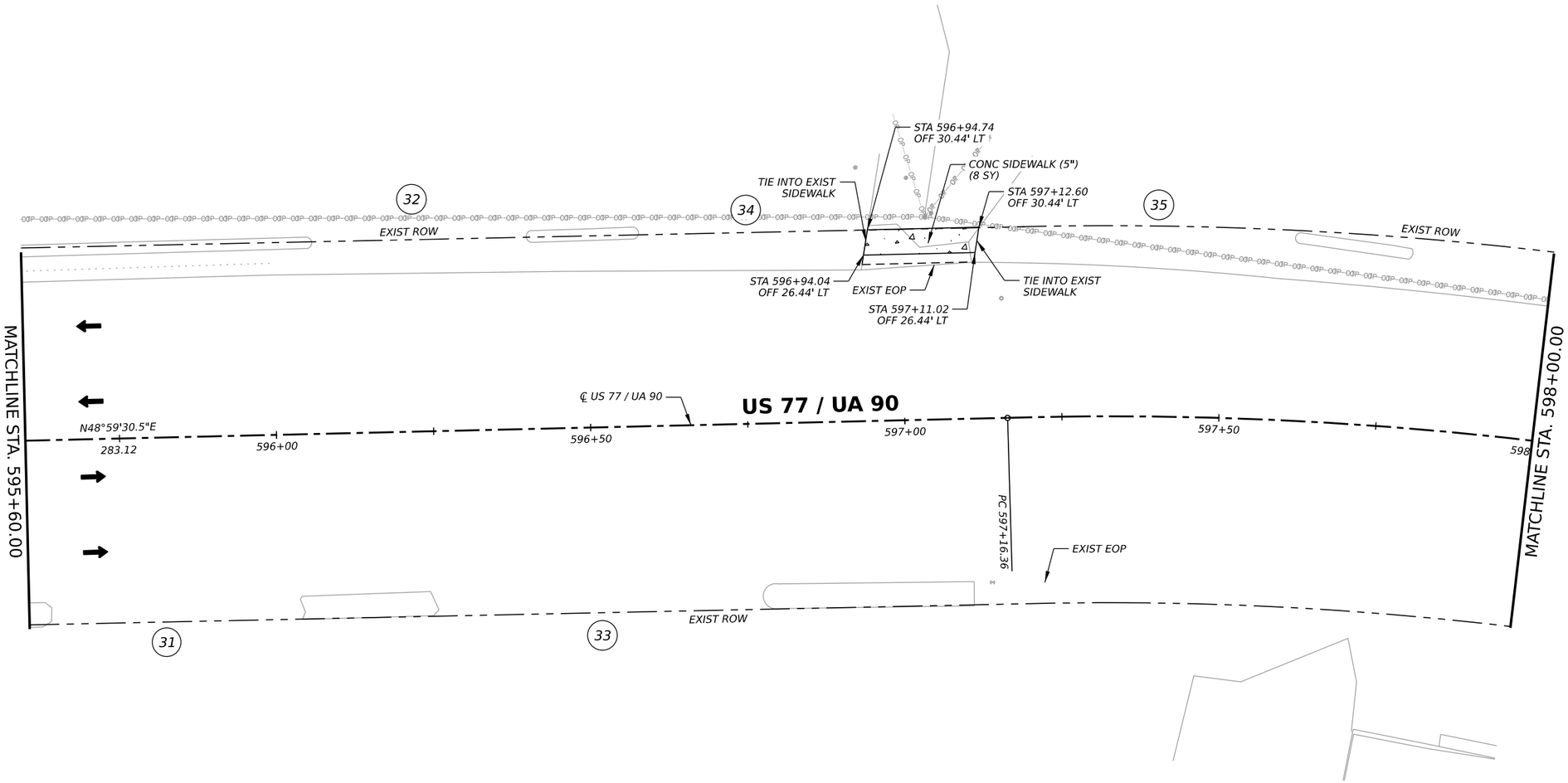
Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 10 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		145



LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 11 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		146

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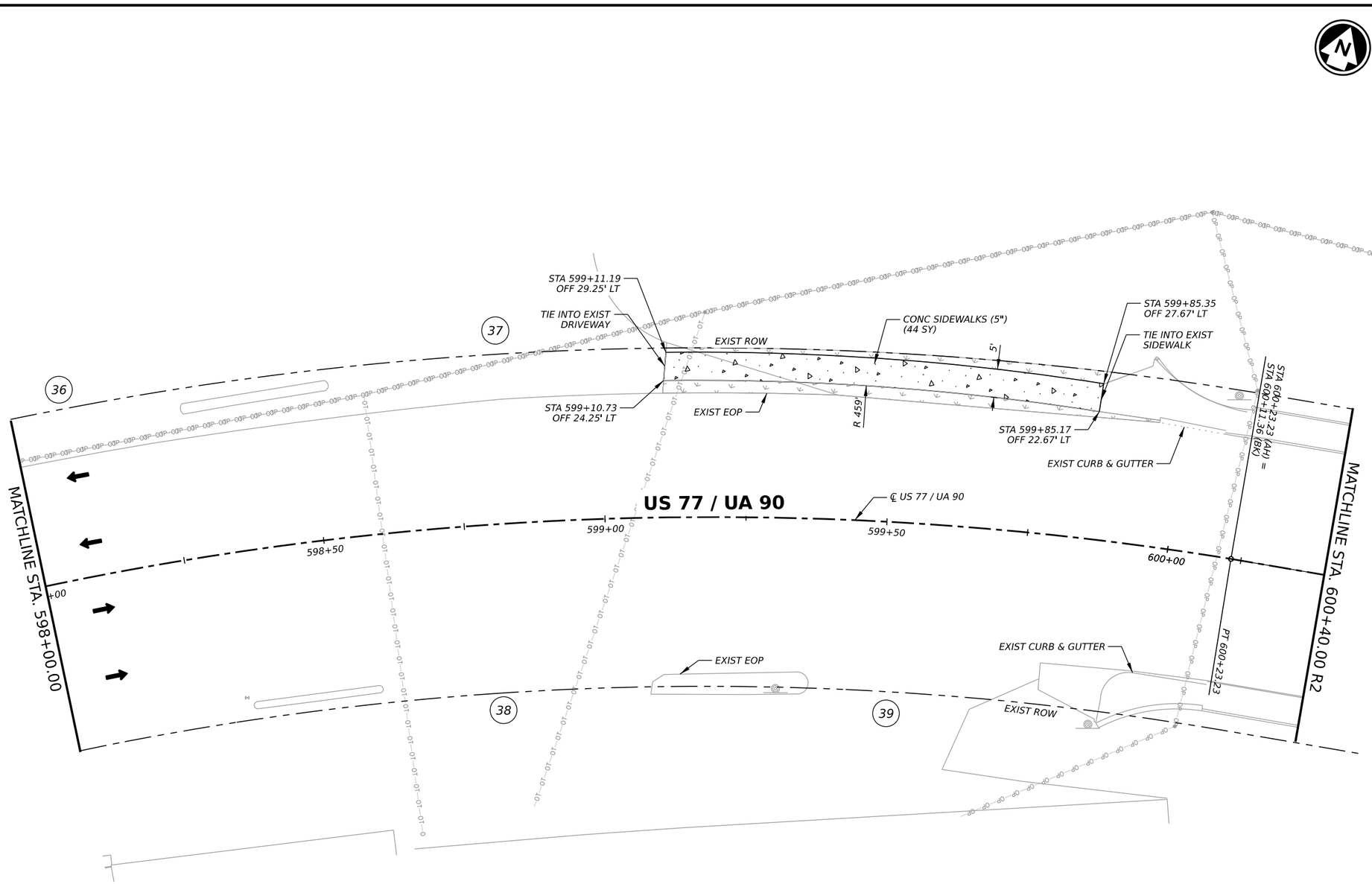

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77/UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 12 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		147

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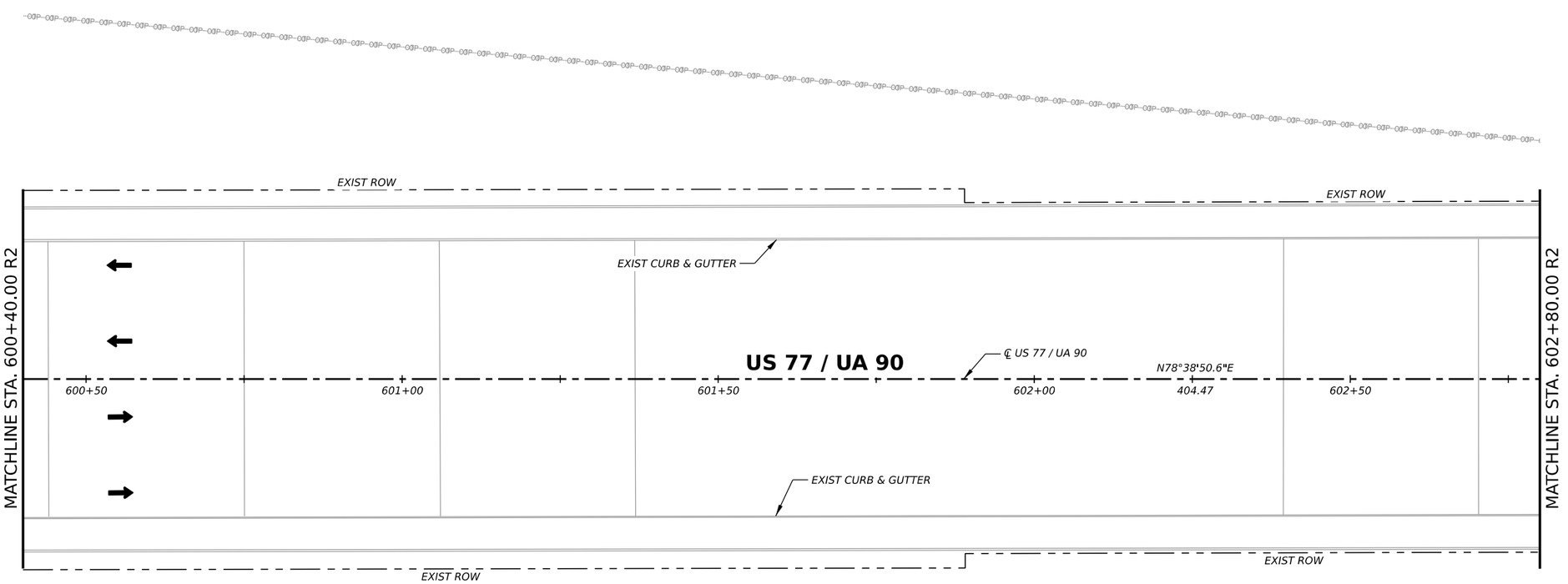

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. NO PROPOSED WORK ON THIS SHEET.

0 10 20
SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 13 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		148

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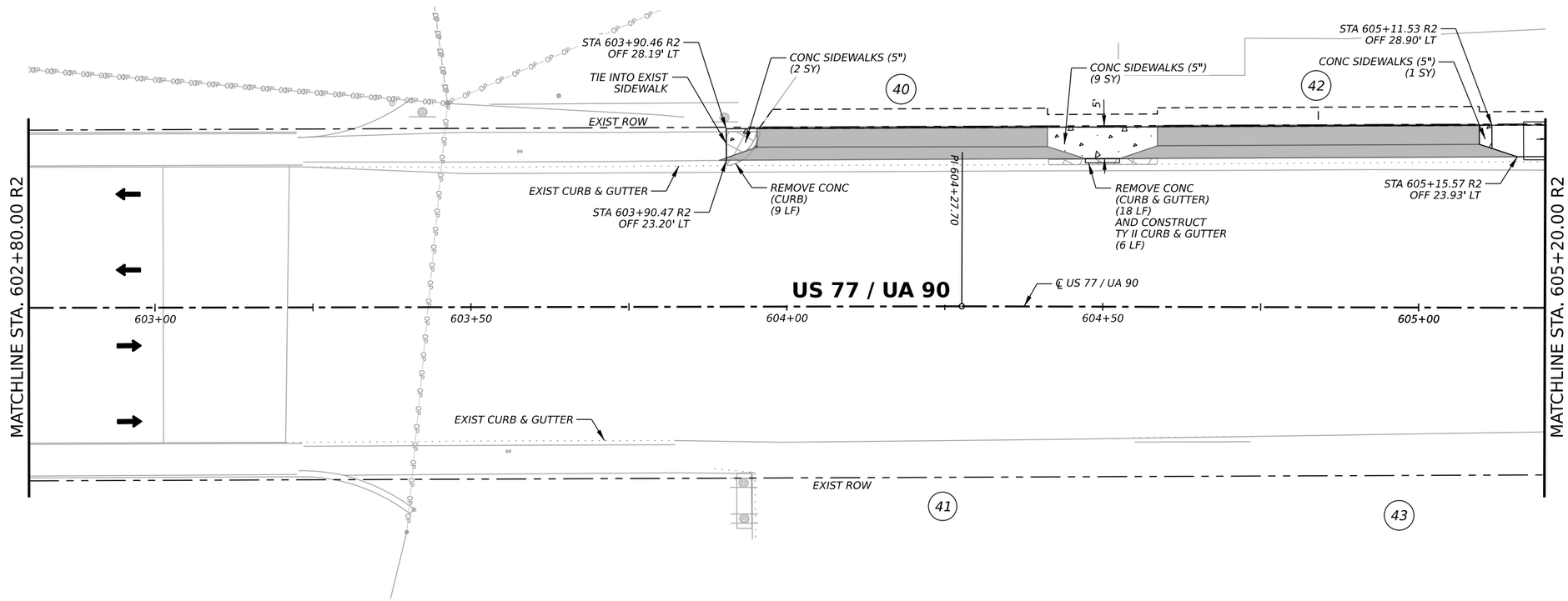

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77/UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 14 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		149

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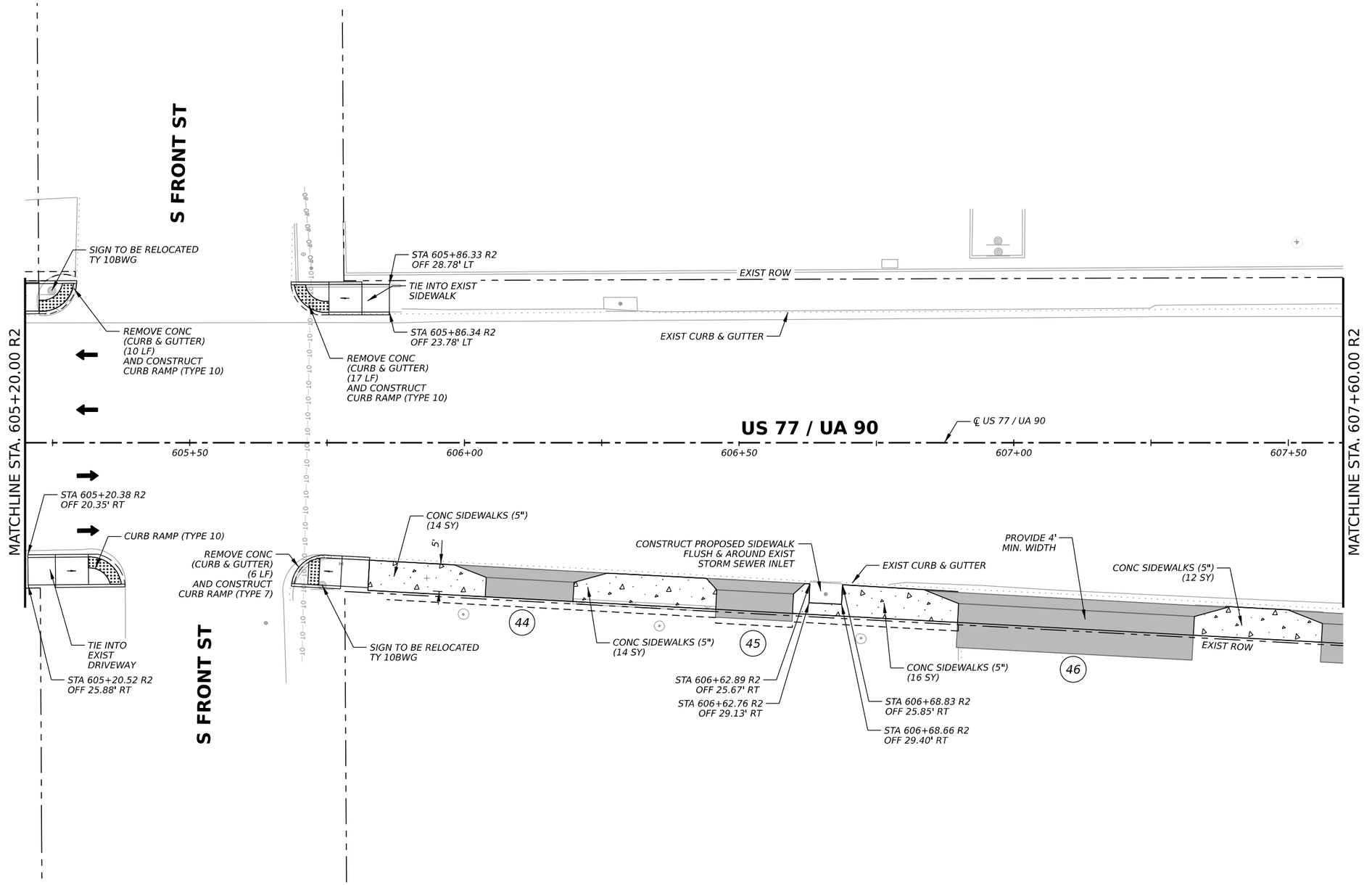

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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SCALE: 1" = 20'

STATE OF TEXAS
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Angela Renger

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77/UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 15 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		150

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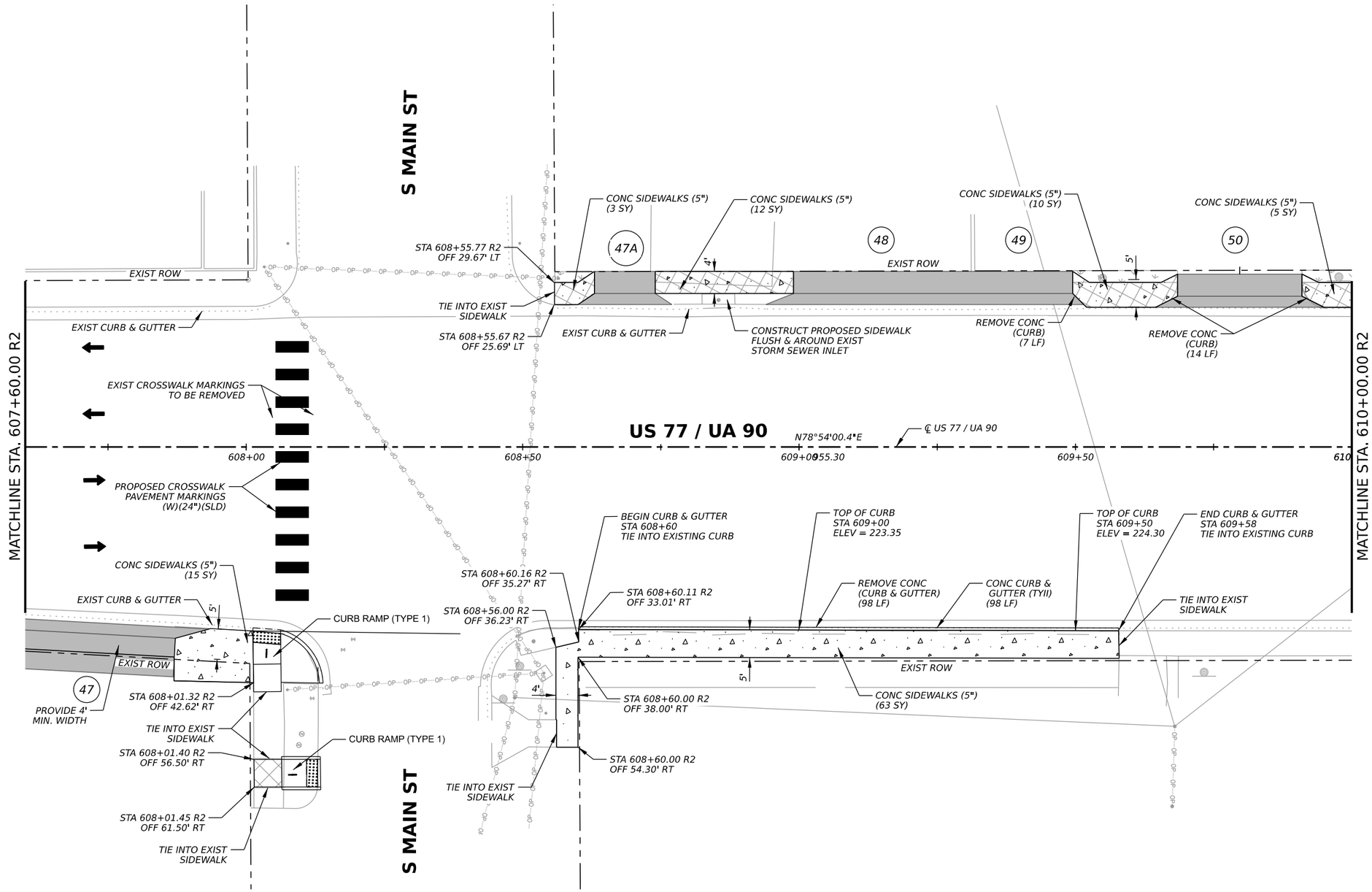

LEGEND

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- SIDEWALK
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- CUT AND RESTORE SURFACE
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77/UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 16 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		151

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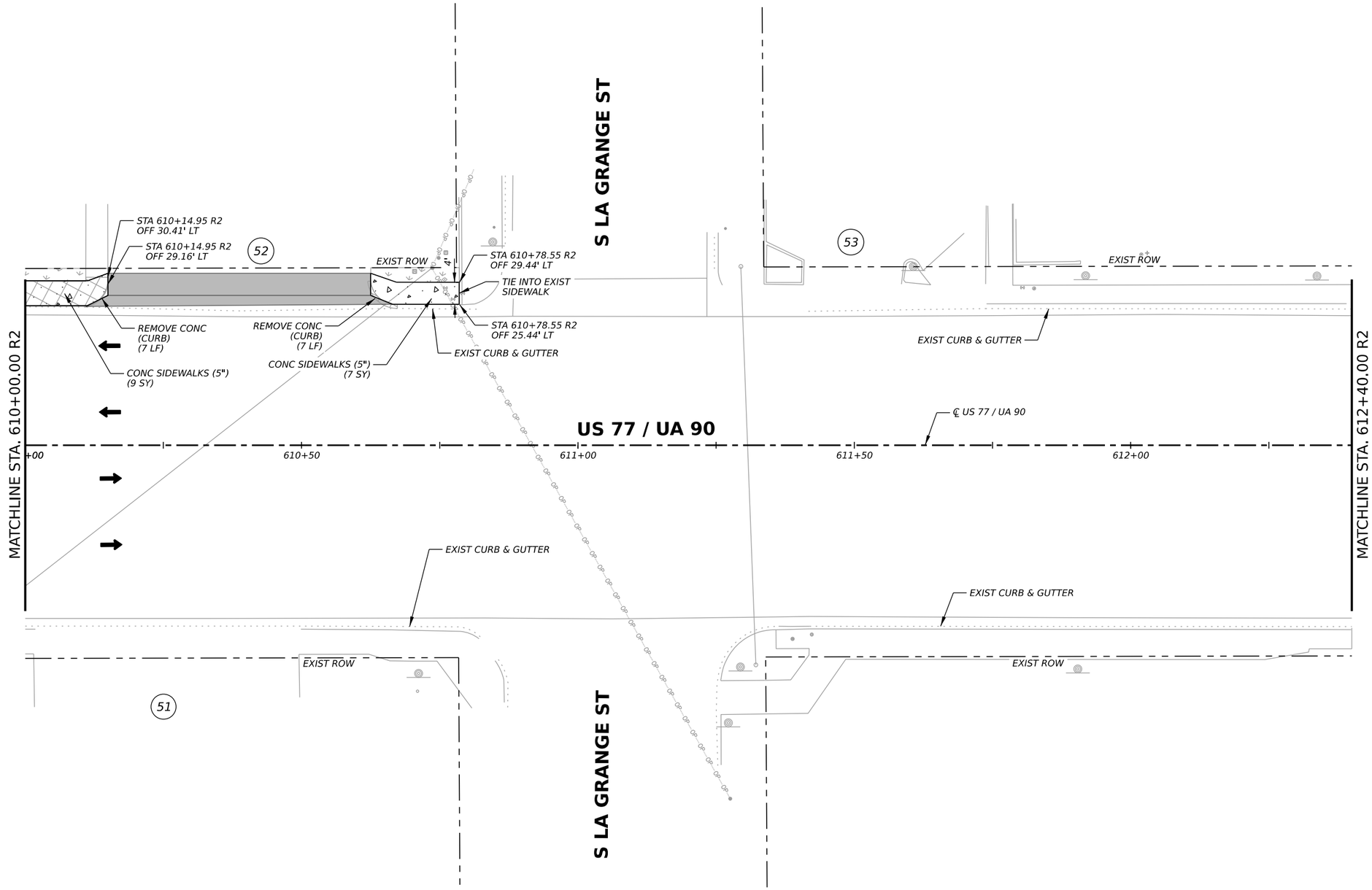

LEGEND

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YKM DISTRICT SIDEWALKS

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SHEET 17 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		152

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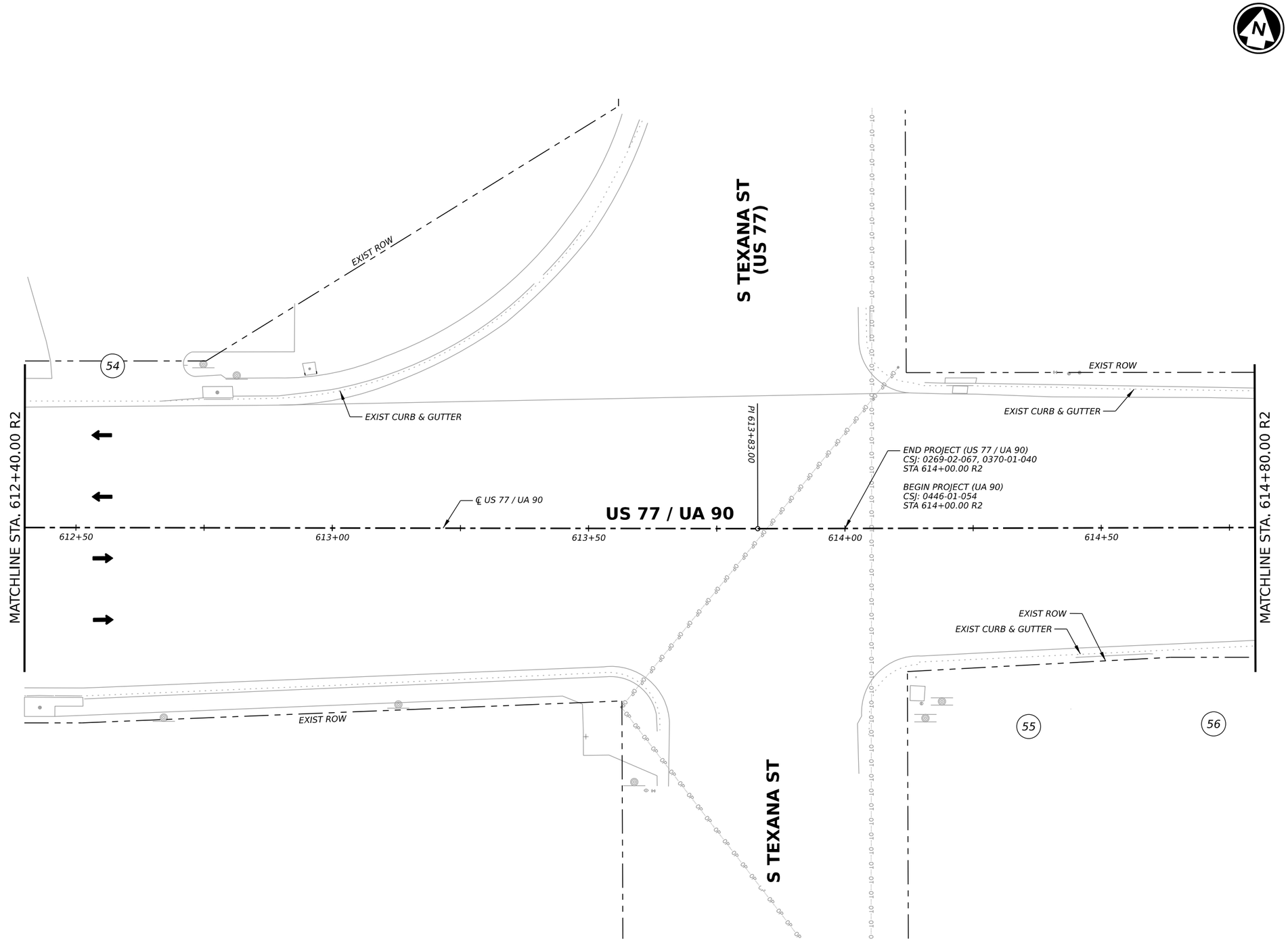

LEGEND

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SIDEWALK PLAN LAYOUT US 77/UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 18 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		153

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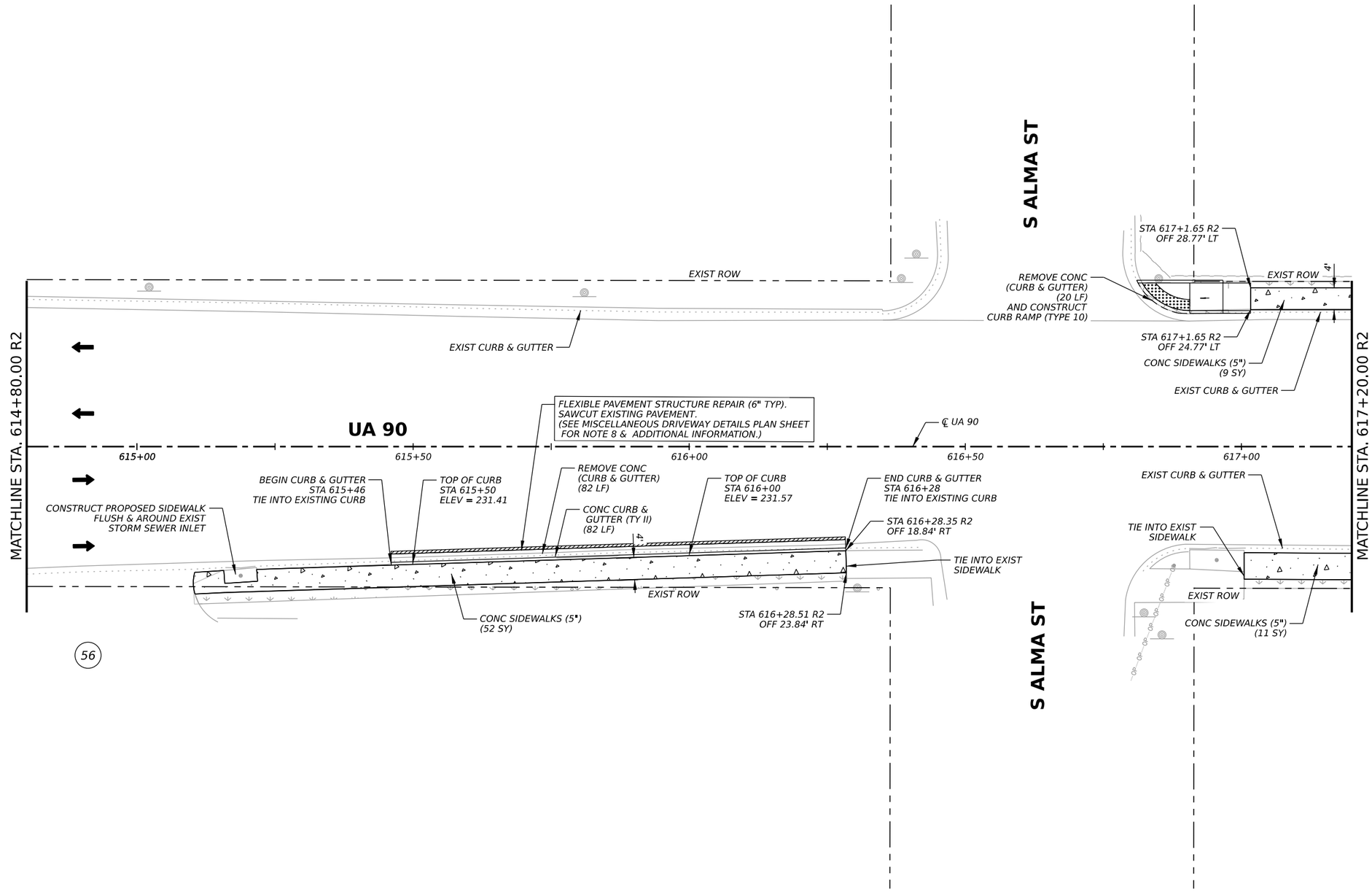

56

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
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5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20
SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 19 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		154

DATE: 6/4/2024 6:40:53 PM
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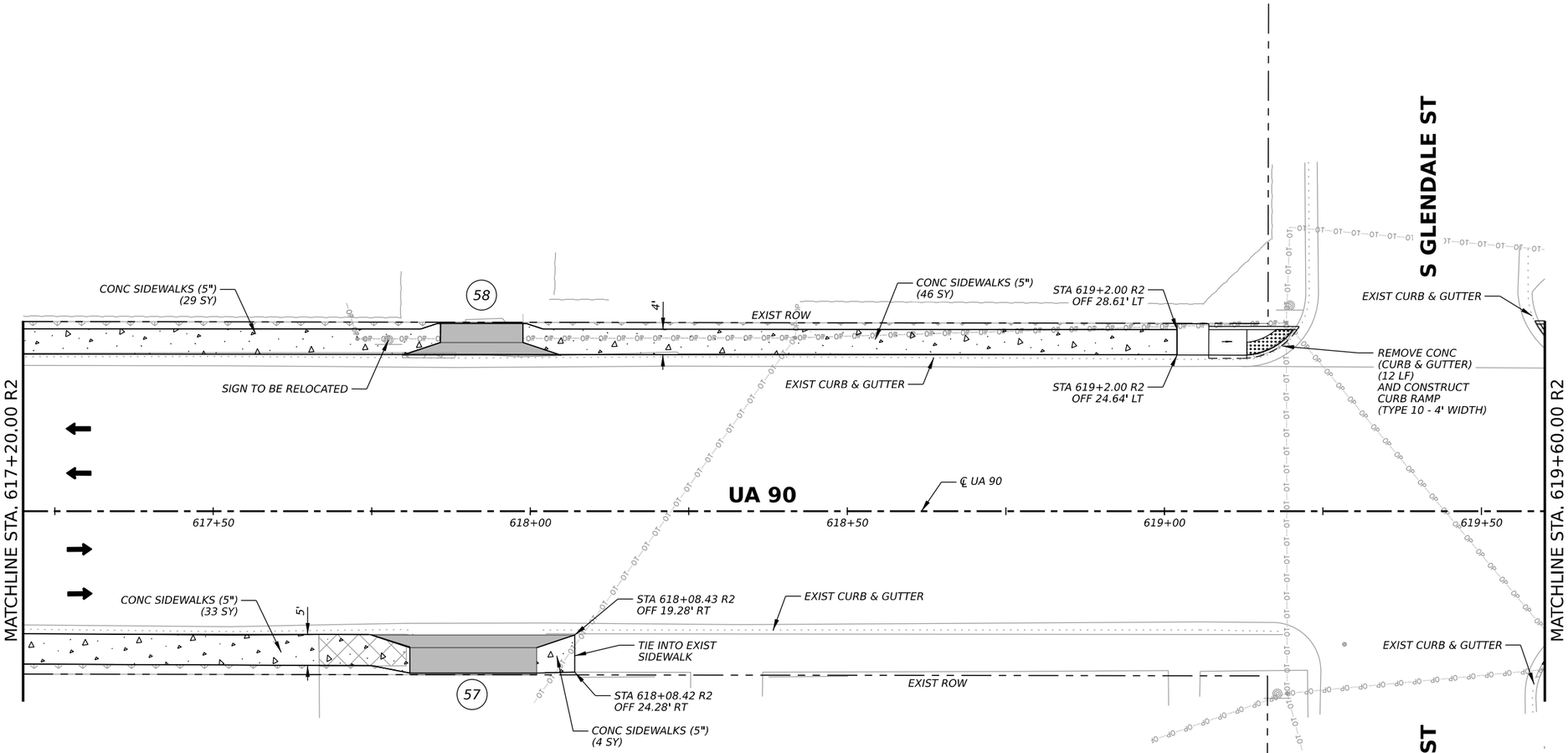

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 20 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		155

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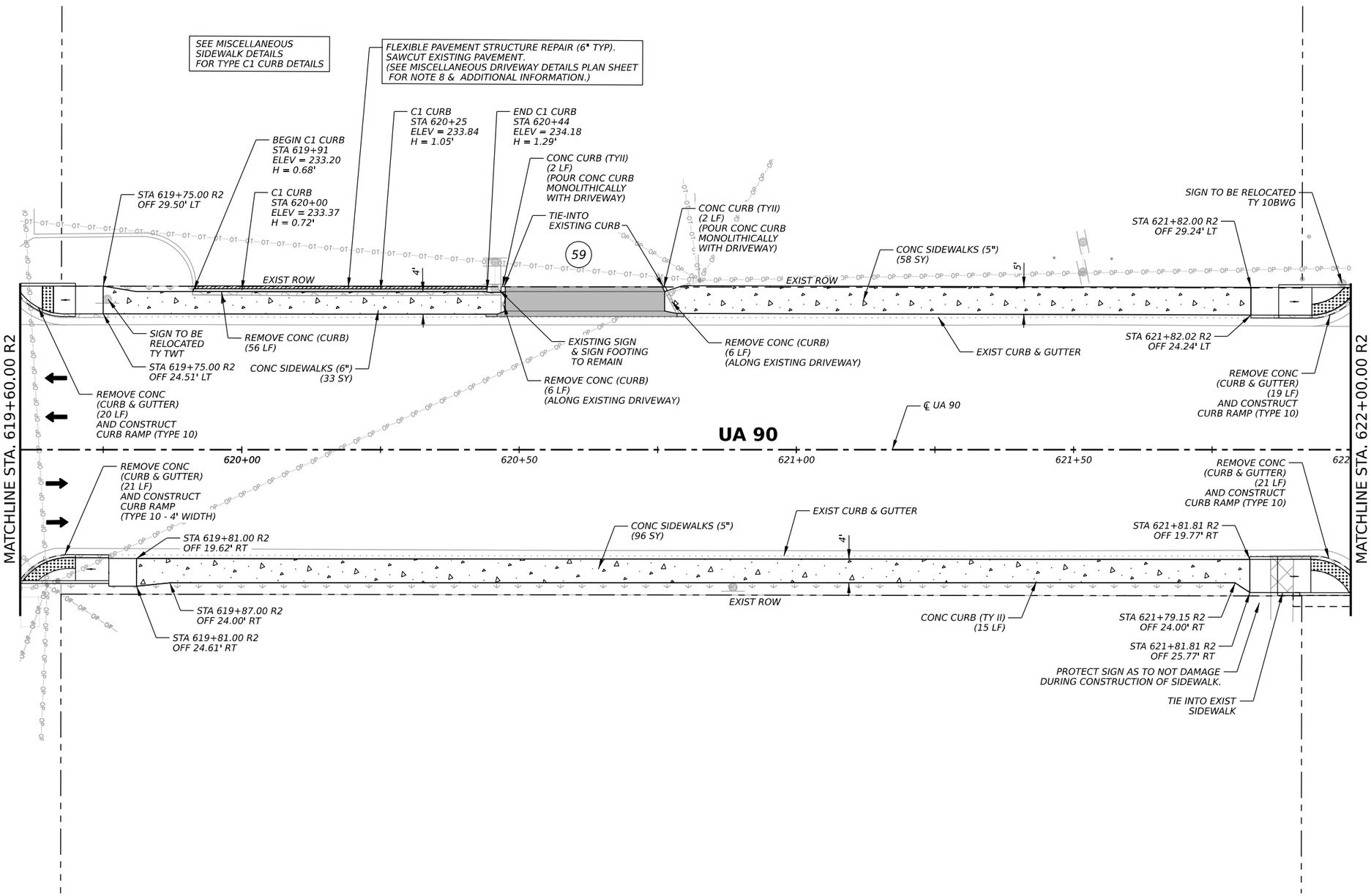

LEGEND

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- DRIVEWAY (PROP RECONSTRUCTION)
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- REMOVAL (CONCRETE)
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SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 21 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		156

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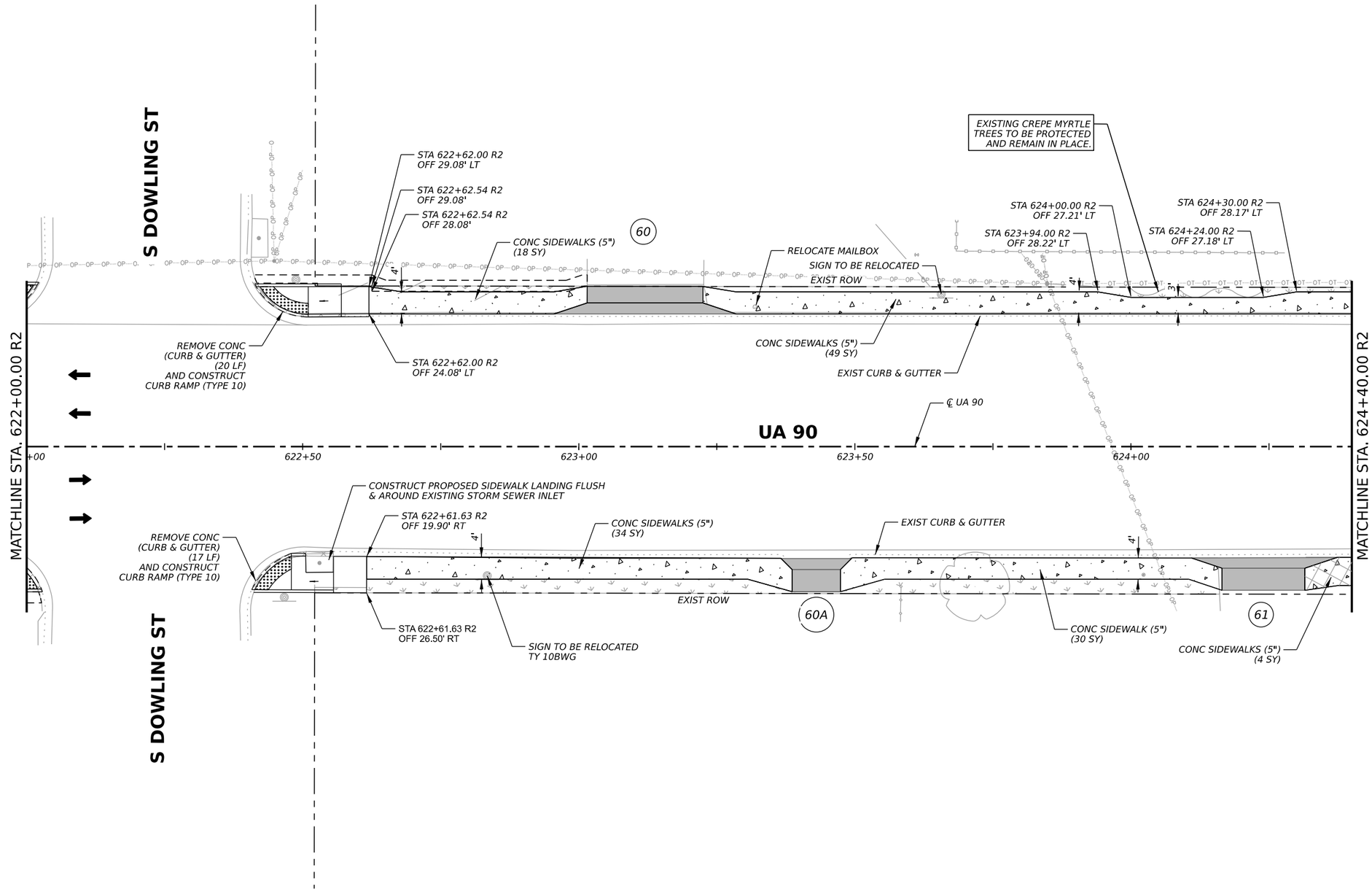

LEGEND

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- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
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SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 22 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		157

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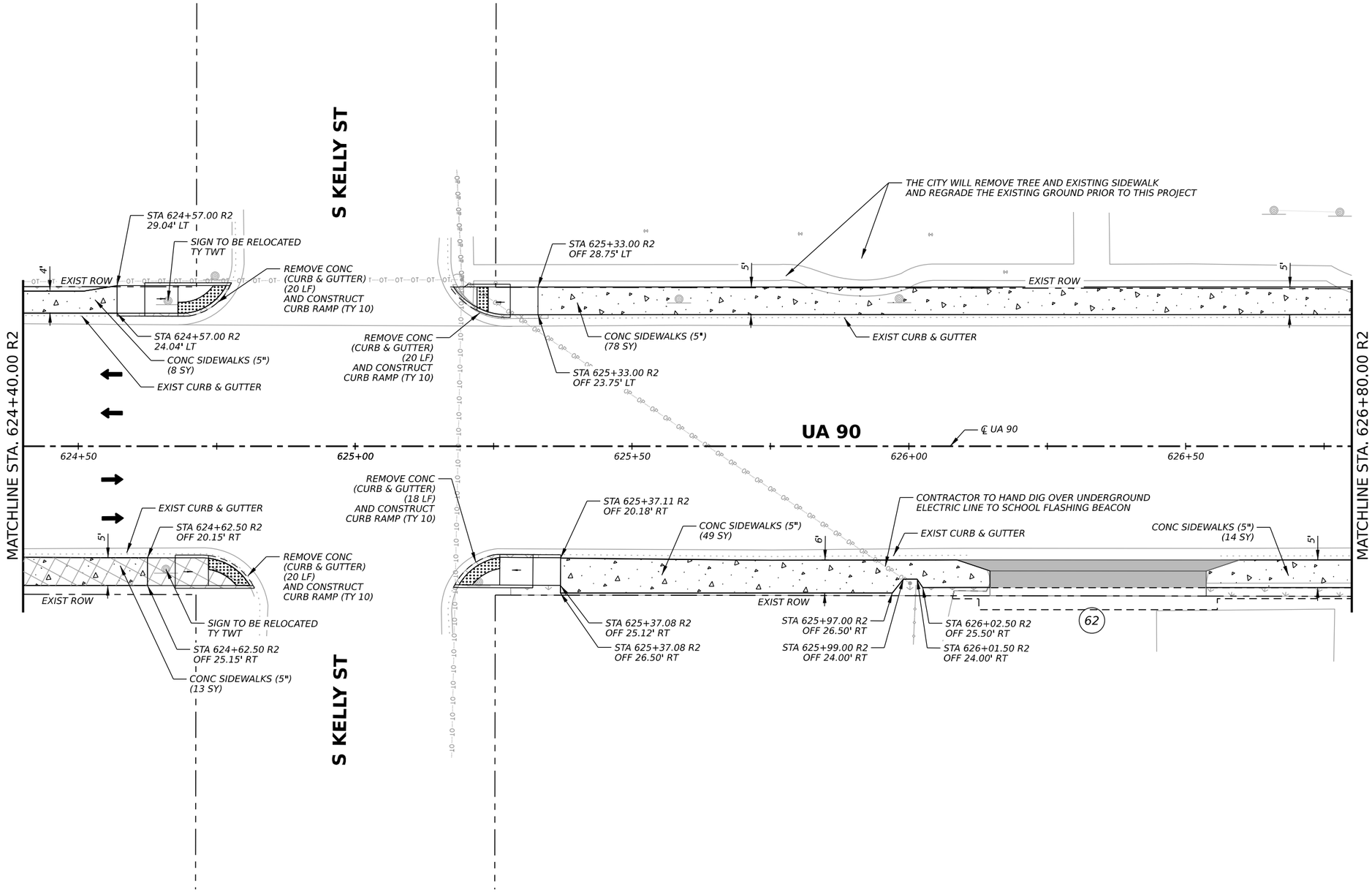

LEGEND

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SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 23 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		158

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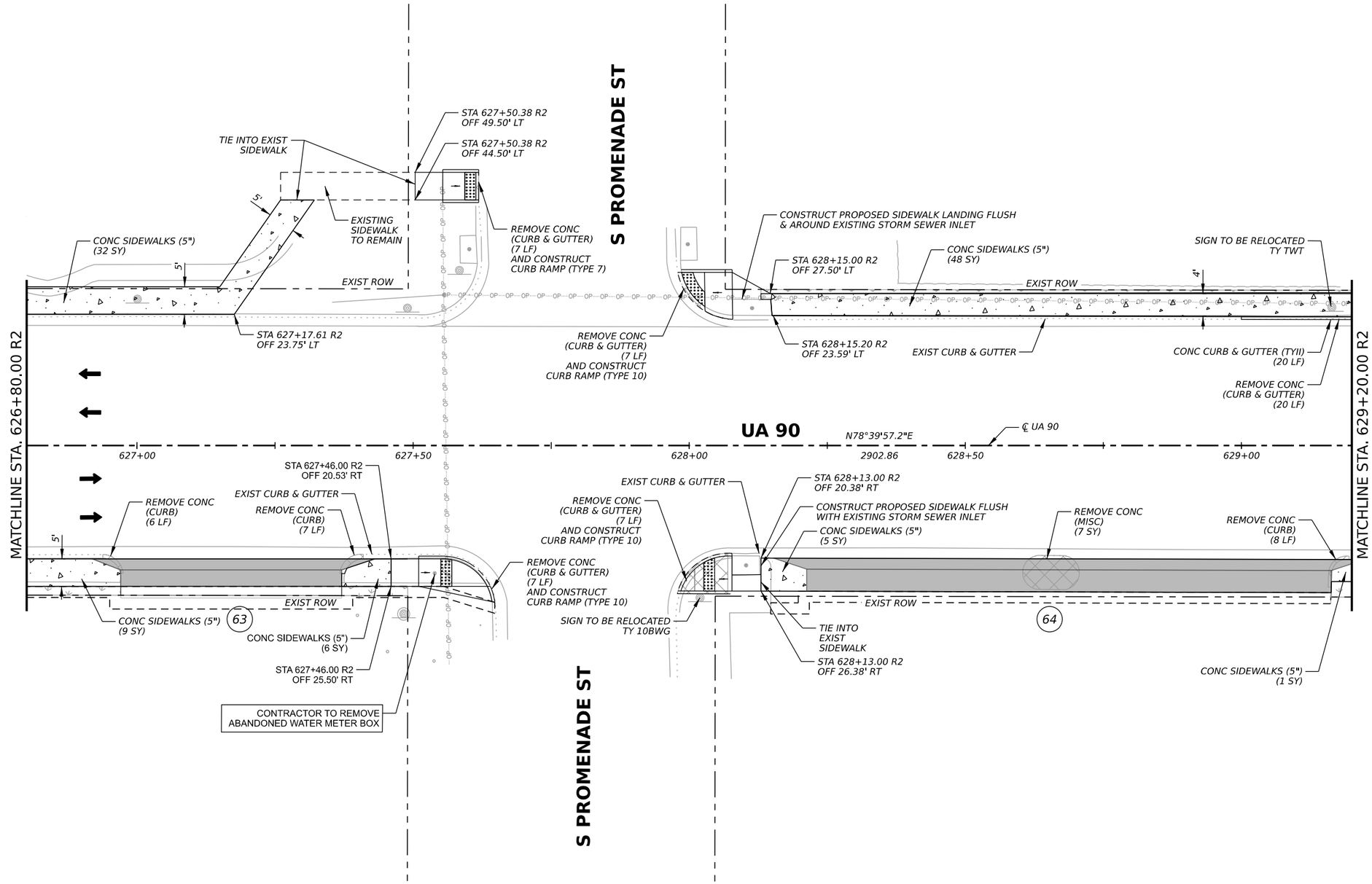

LEGEND

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- DRIVEWAY NUMBER
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- SIDEWALK
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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 24 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		159

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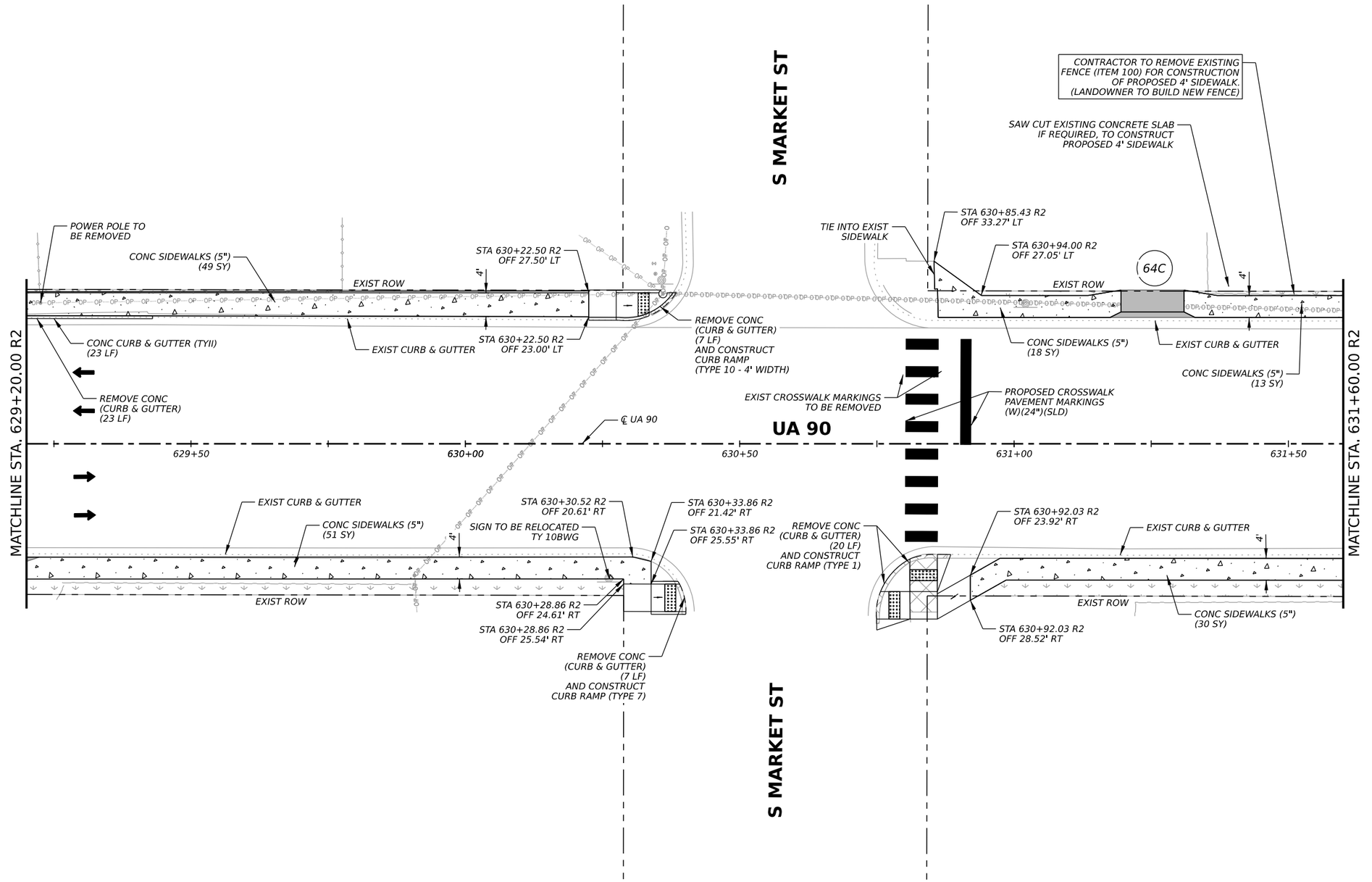

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 25 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		160

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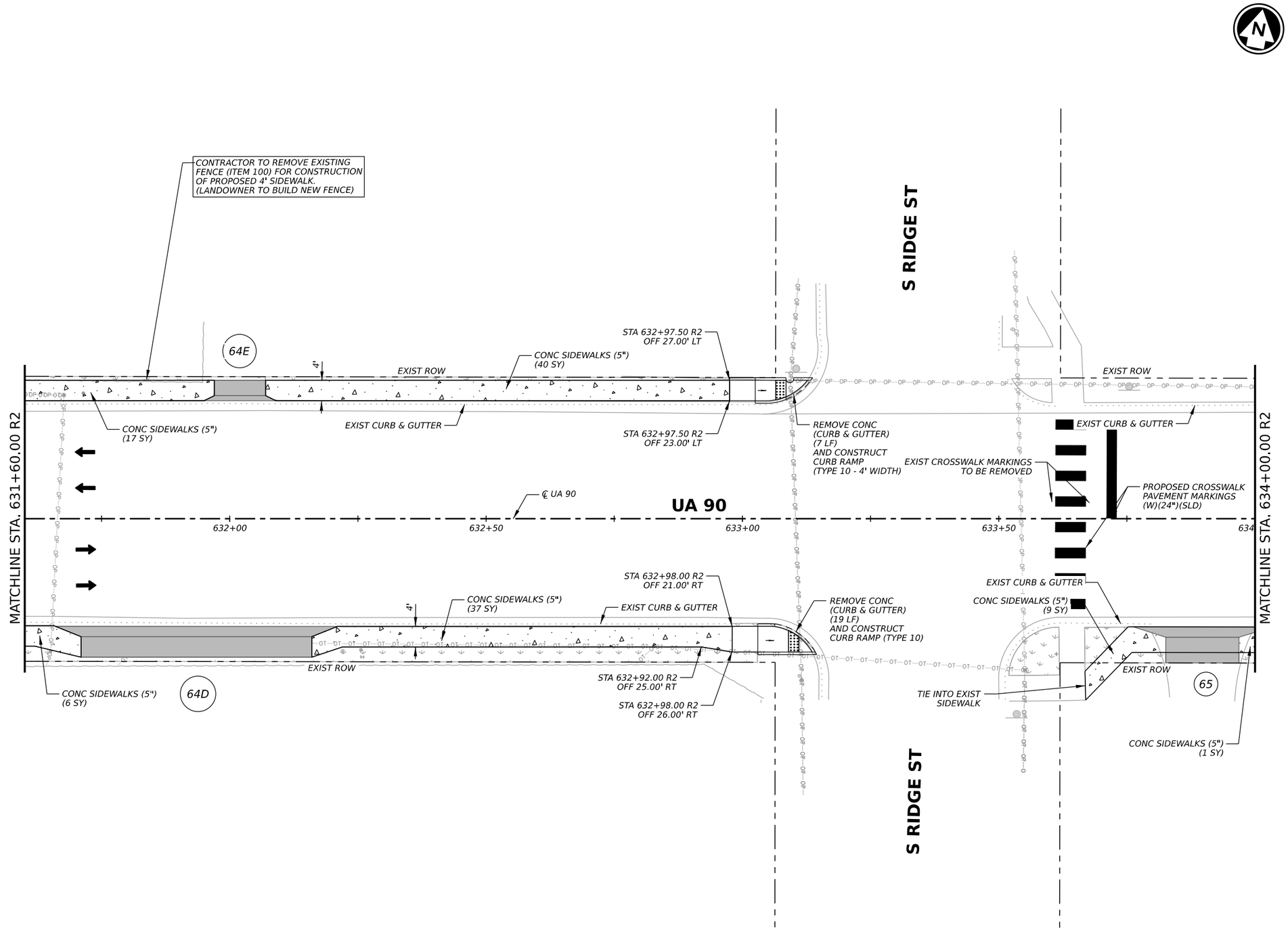

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 26 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		161

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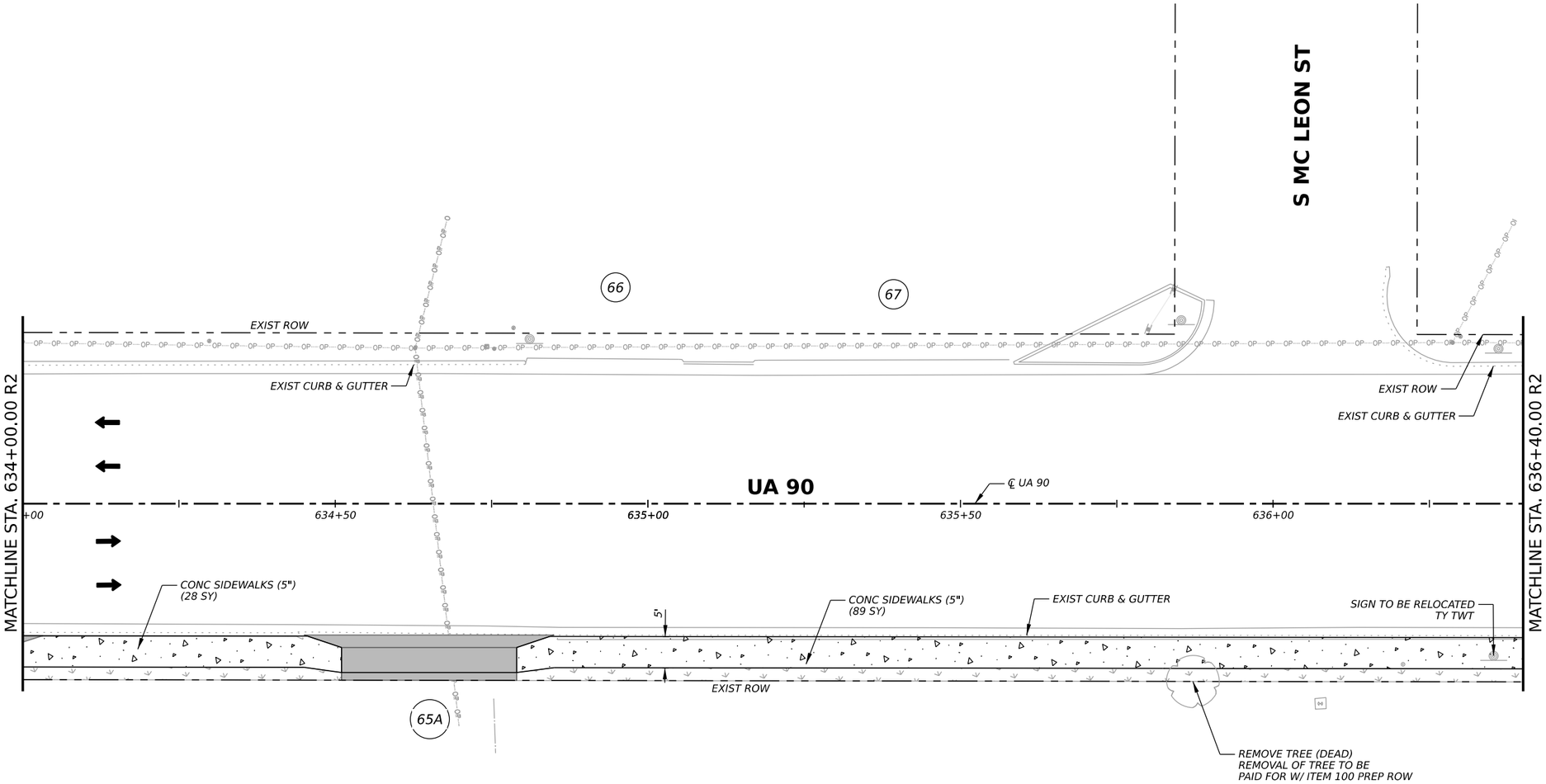

LEGEND

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SHEET 27 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		162

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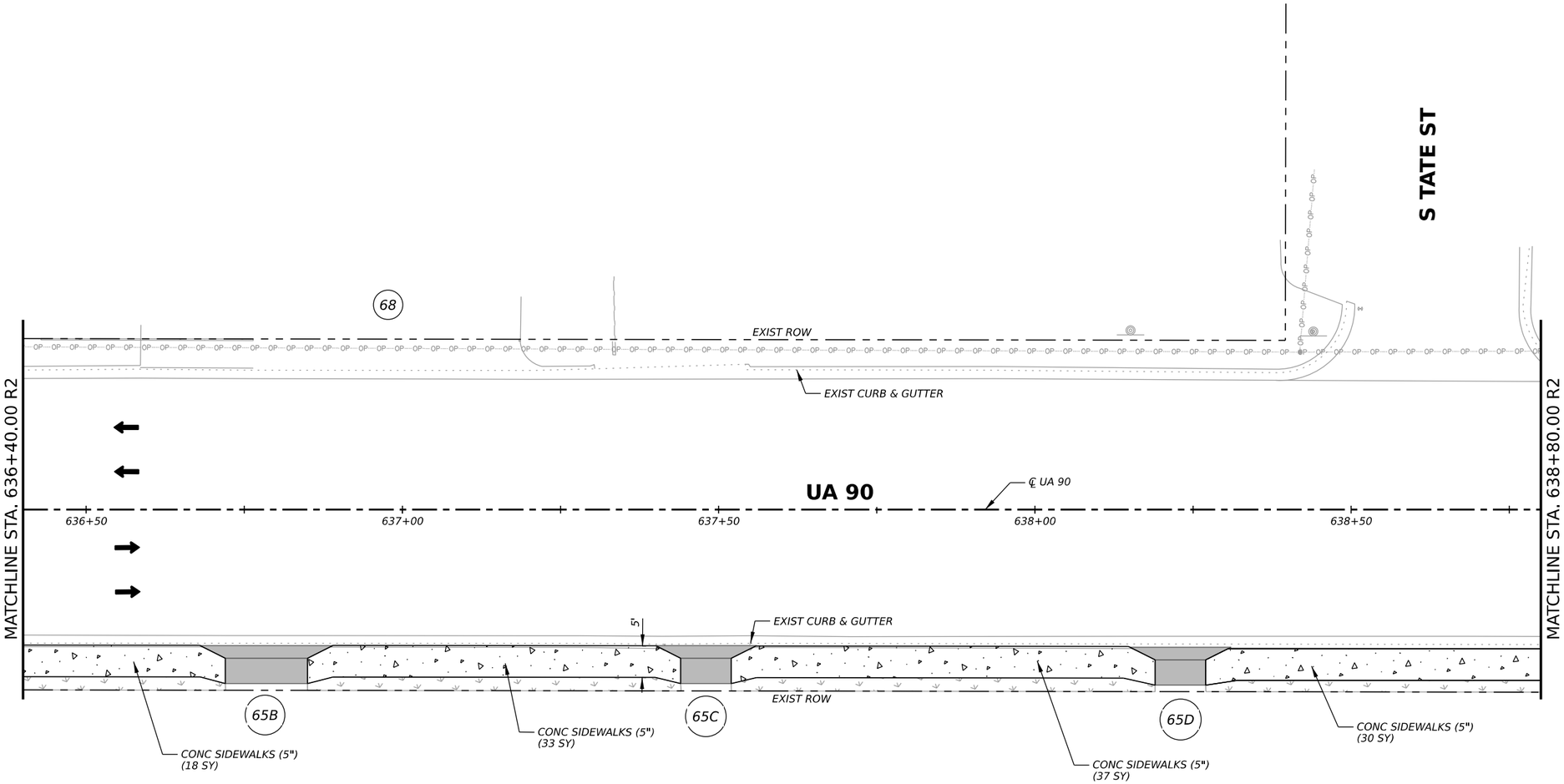

LEGEND

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7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT UA 90 HALLETTSVILLE CSJ: 0269-02-067, ETC.

SHEET 28 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		163

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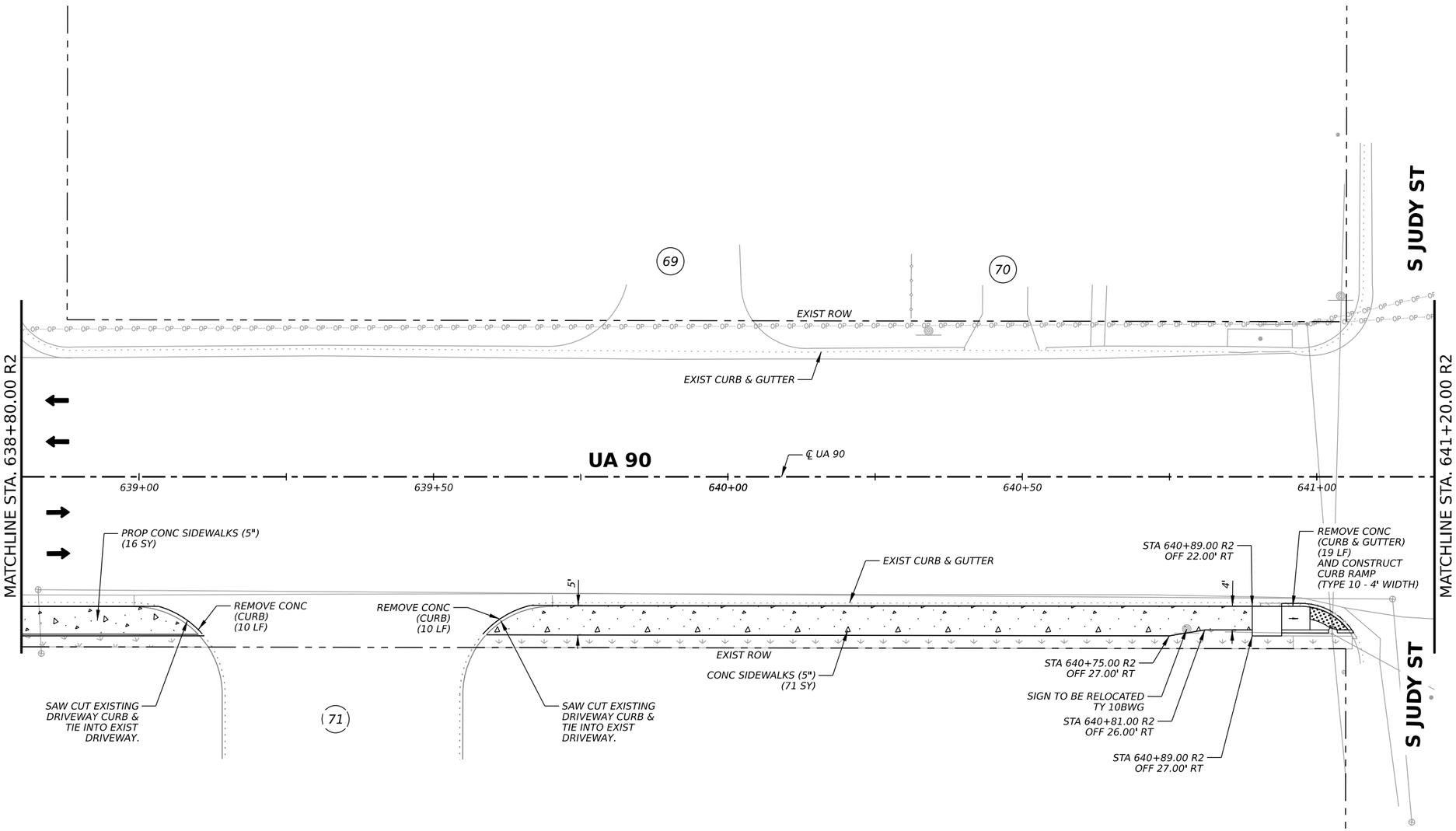

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 29 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		164

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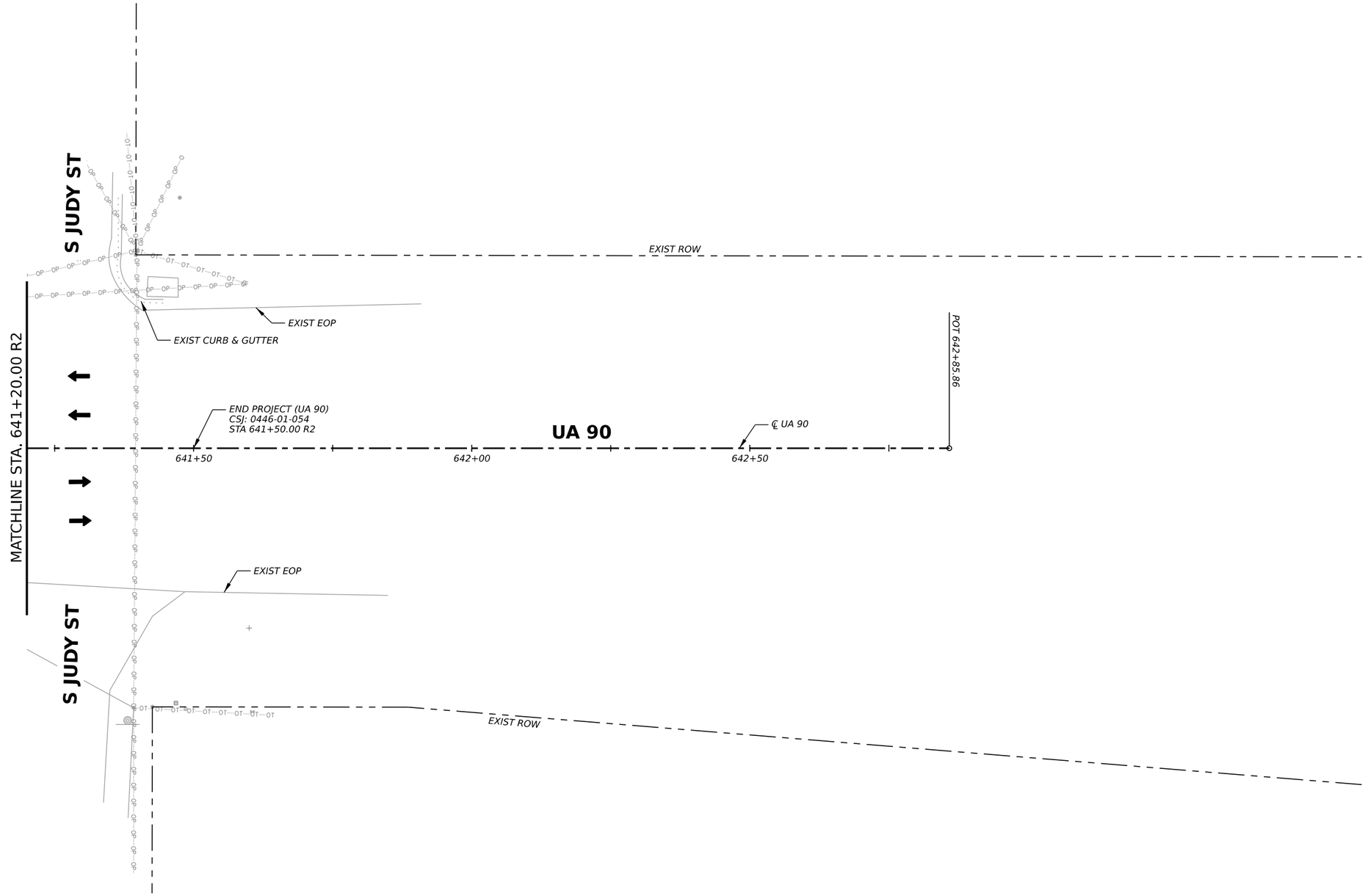

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:
1. NO PROPOSED WORK ON THIS SHEET.

0 10 20
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
UA 90 HALLETTSVILLE
CSJ: 0269-02-067, ETC.

SHEET 30 OF 30

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		165

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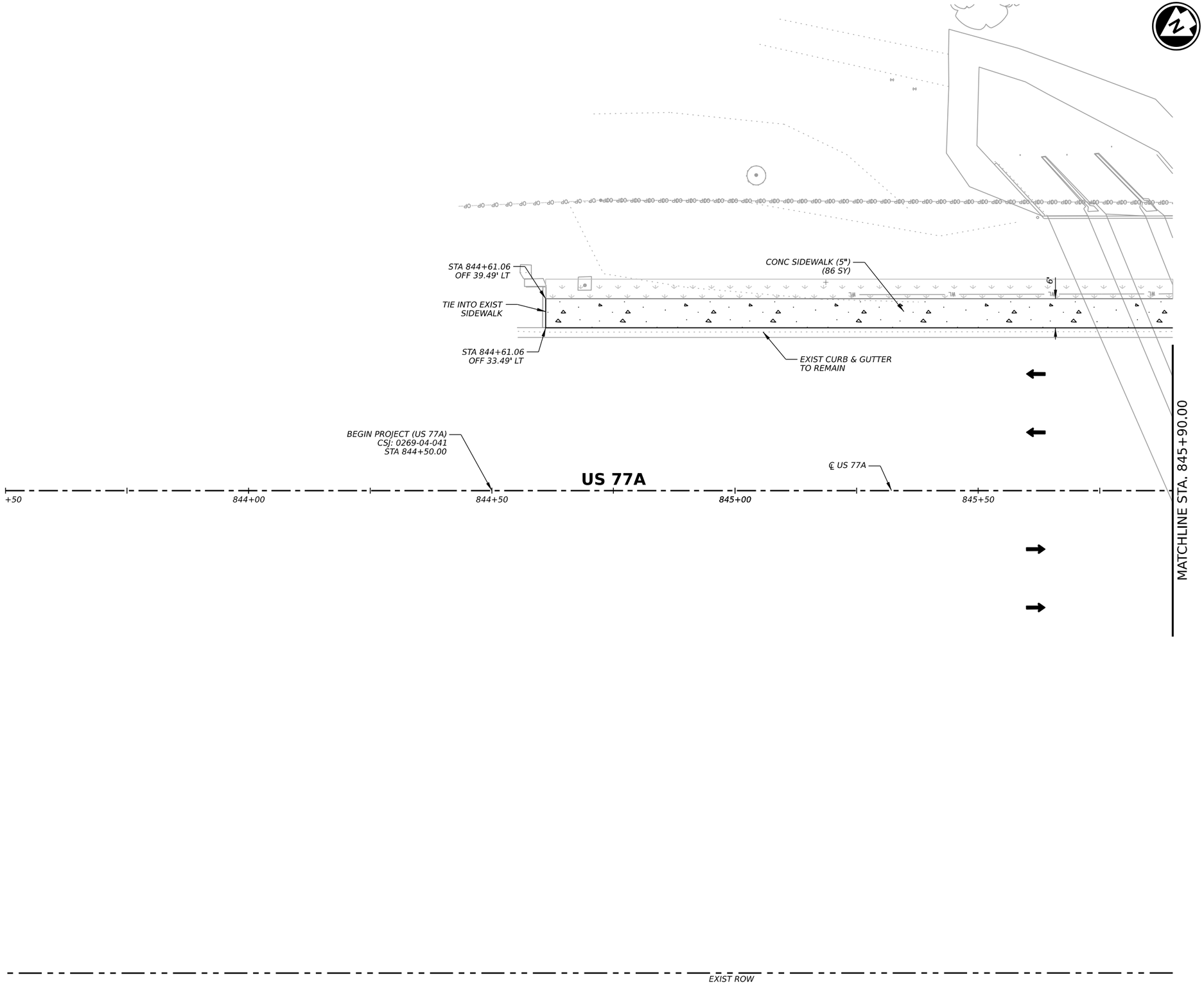

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 1 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		166

DATE: 6/4/2024 6:41:08 PM
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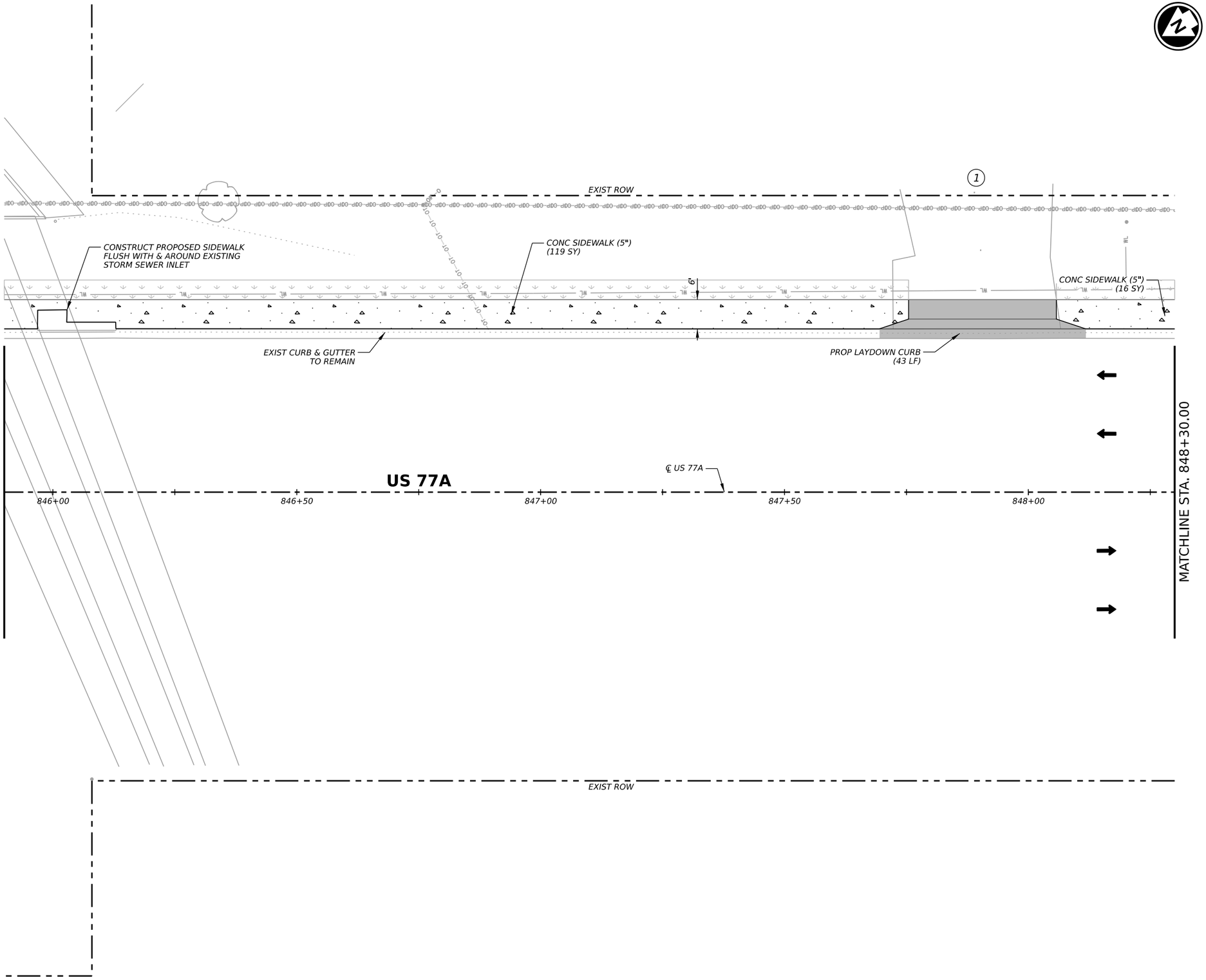

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- REMOVAL (CONCRETE)
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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		167

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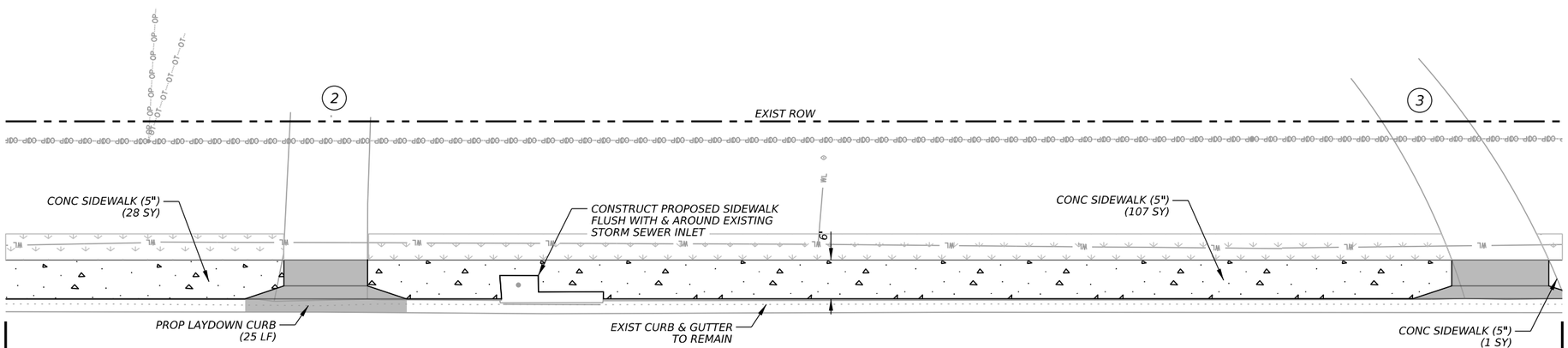
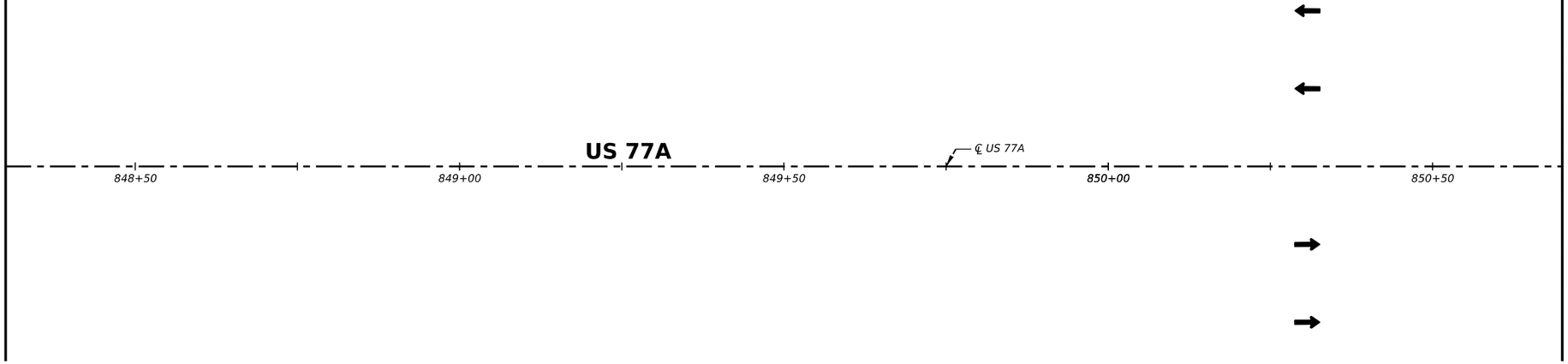


MATCHLINE STA. 848+30.00



MATCHLINE STA. 850+70.00

EXIST ROW

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 3 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		168

DATE: 6/4/2024 6:41:11 PM
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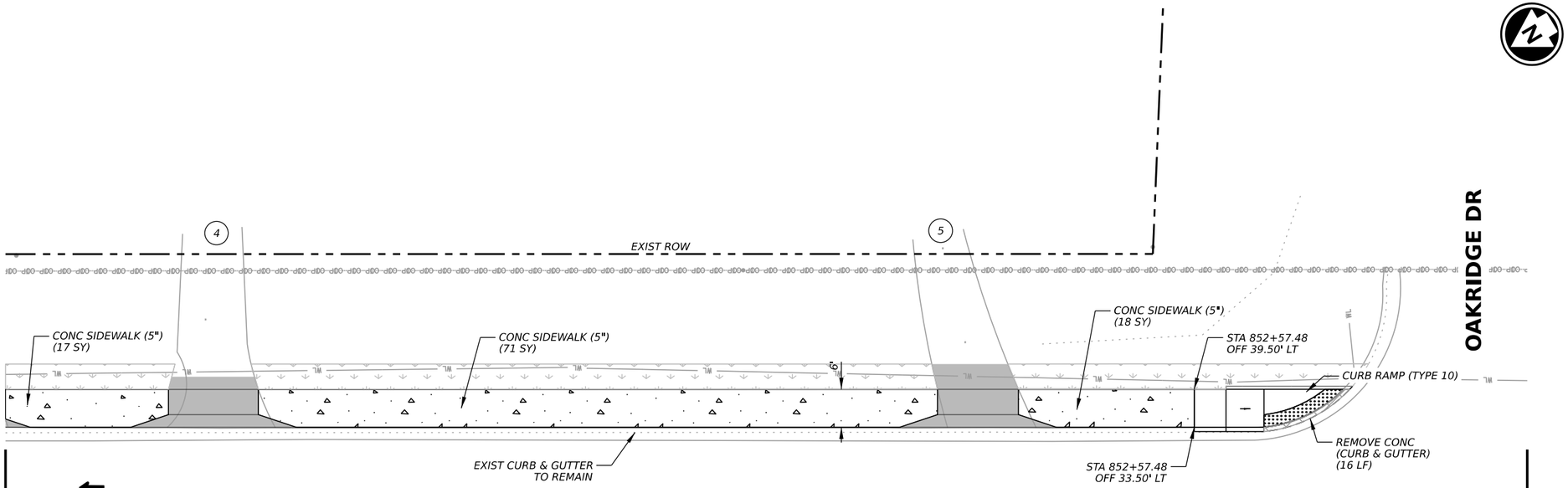

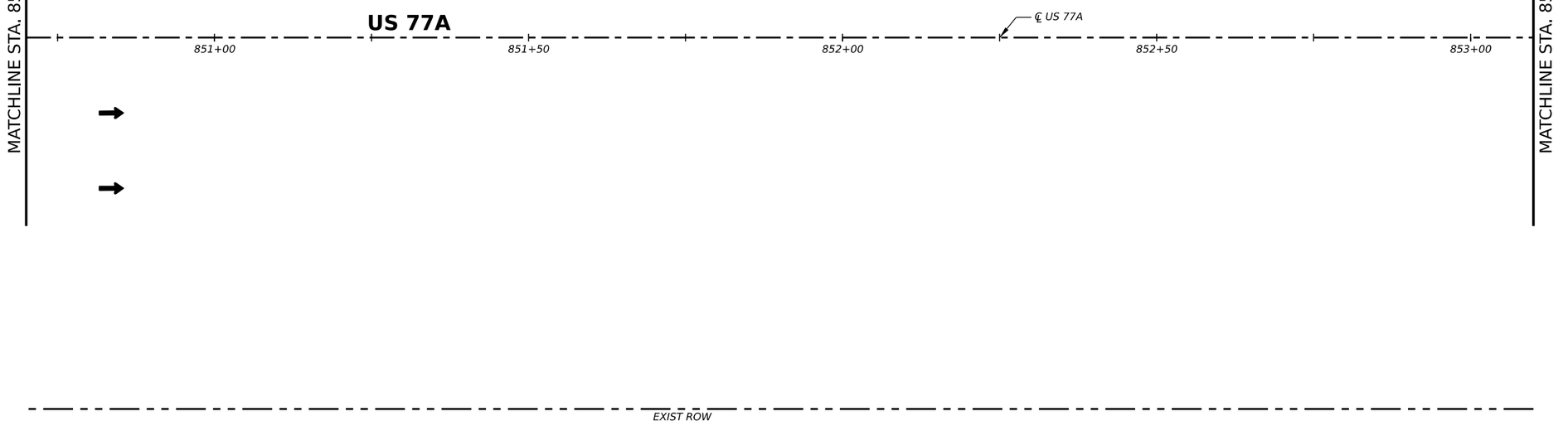

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
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SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		169

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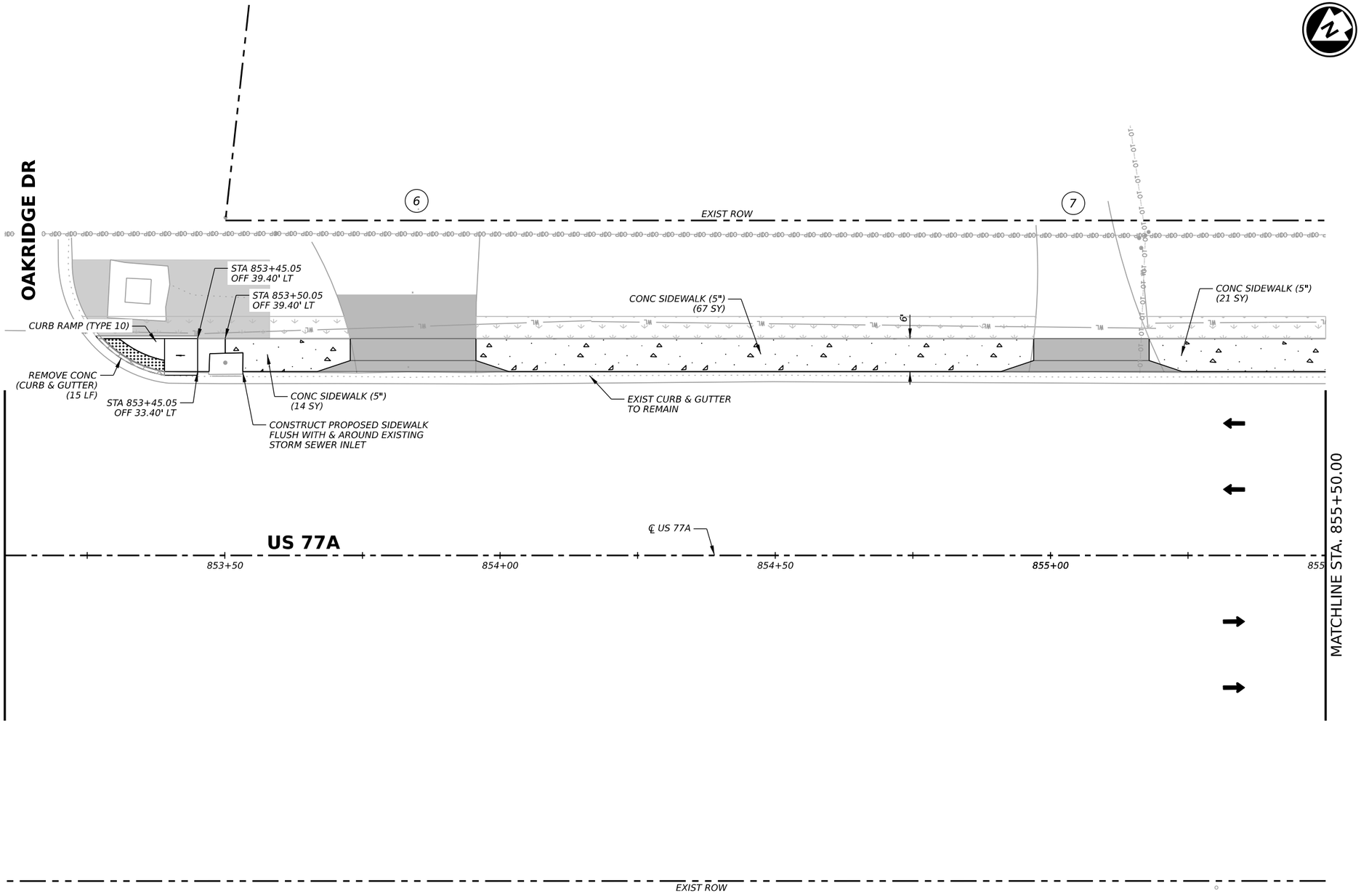

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 5 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		170

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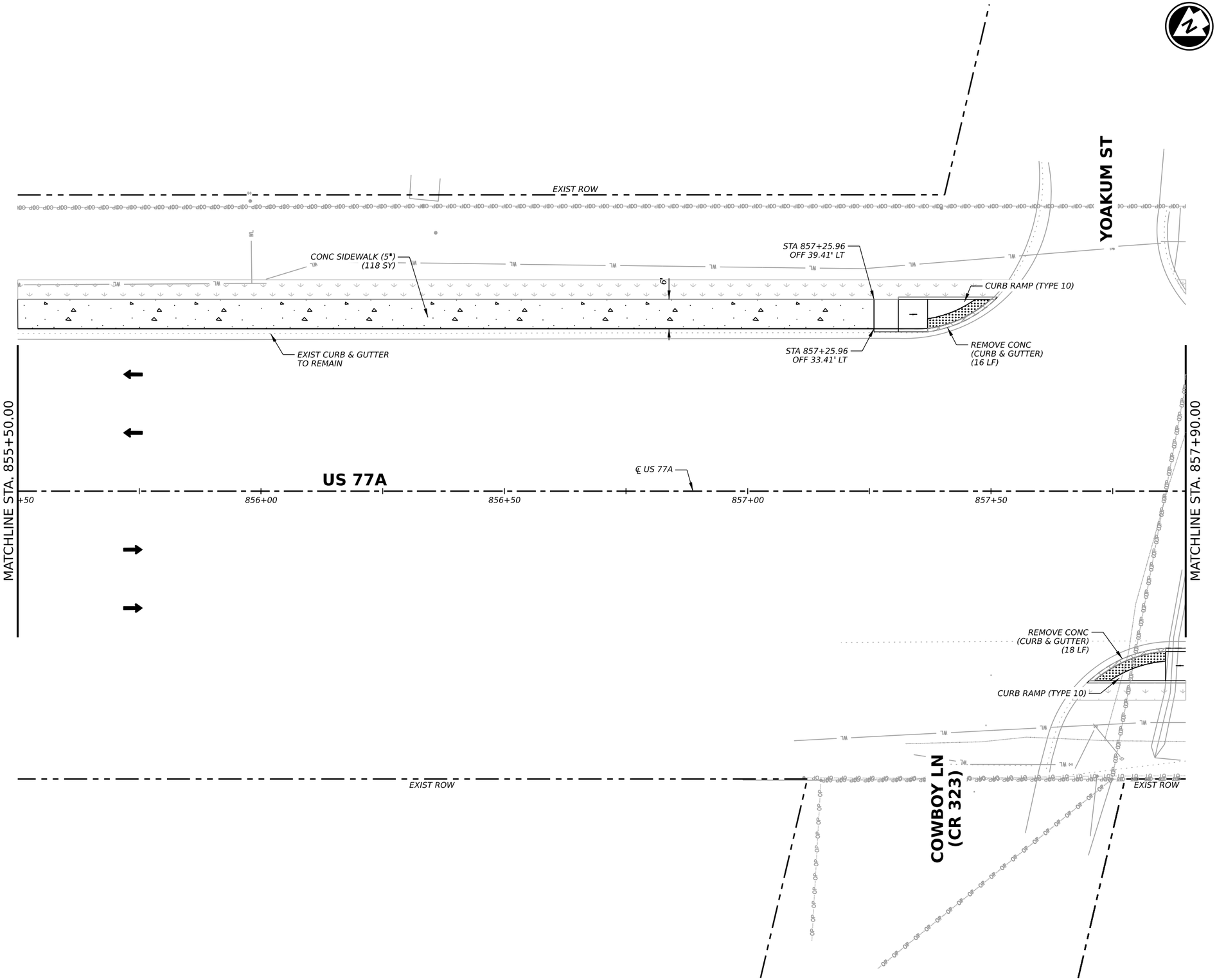

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US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 6 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		171

DATE: 6/4/2024 6:41:15 PM
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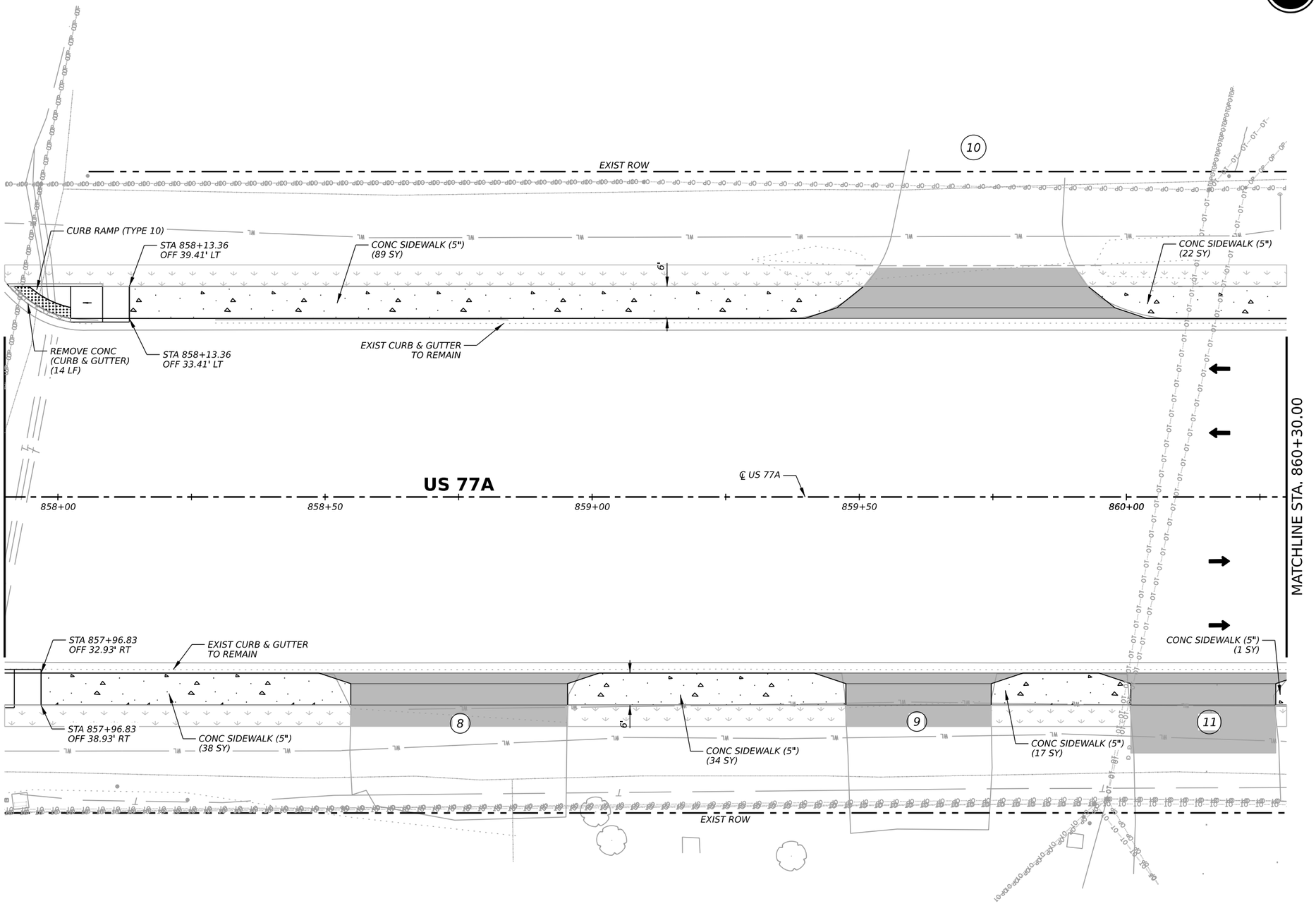

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Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 7 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		172

DATE: 6/4/2024 6:41:16 PM
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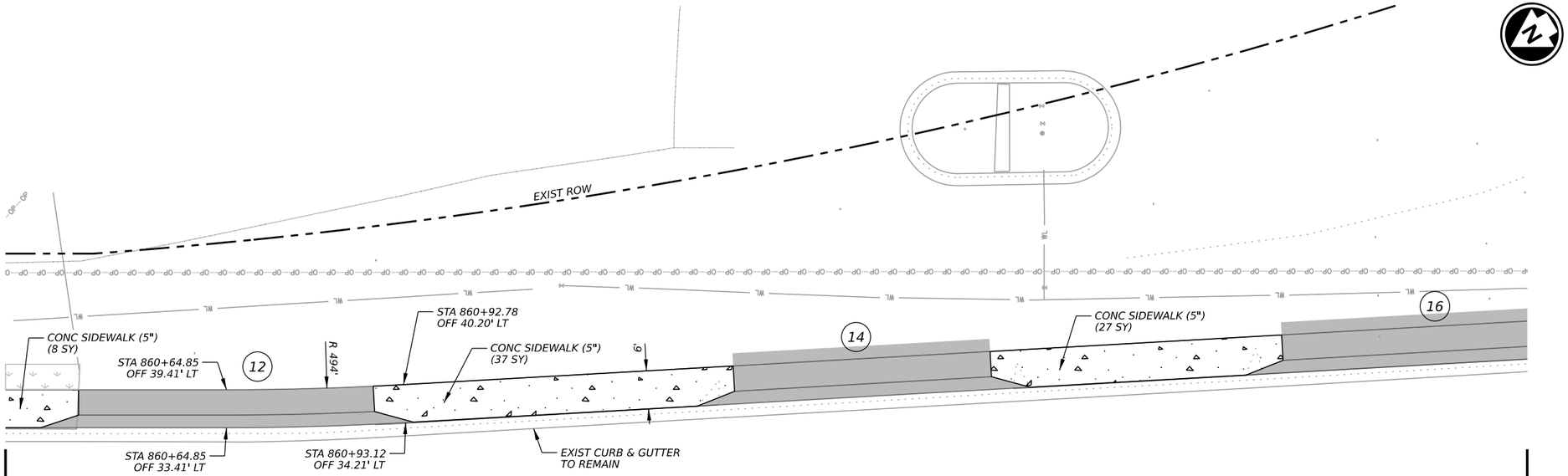
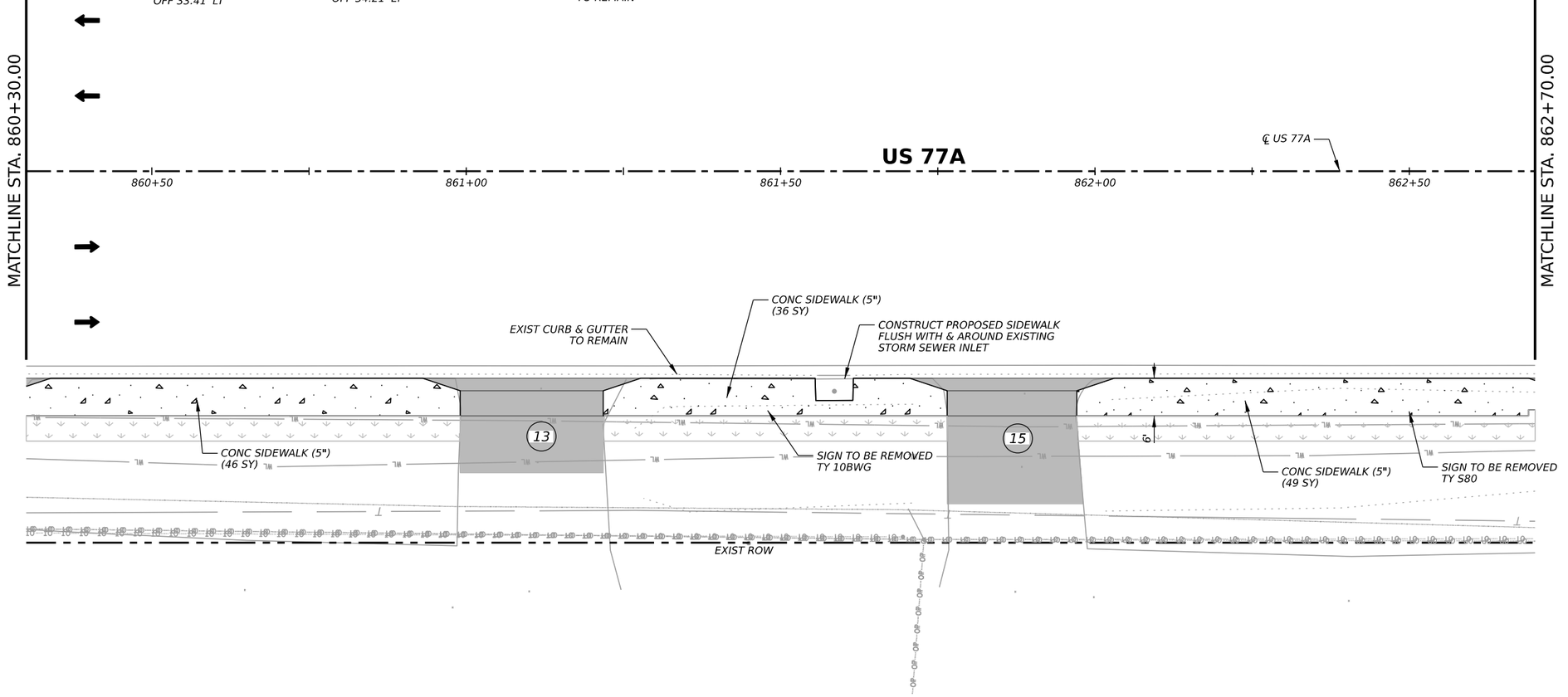
DW: CK: DW: CK:





LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
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6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM

CSJ: 0269-04-041, 0269-05-037

SHEET 8 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		173

DATE: 6/4/2024 6:41:18 PM
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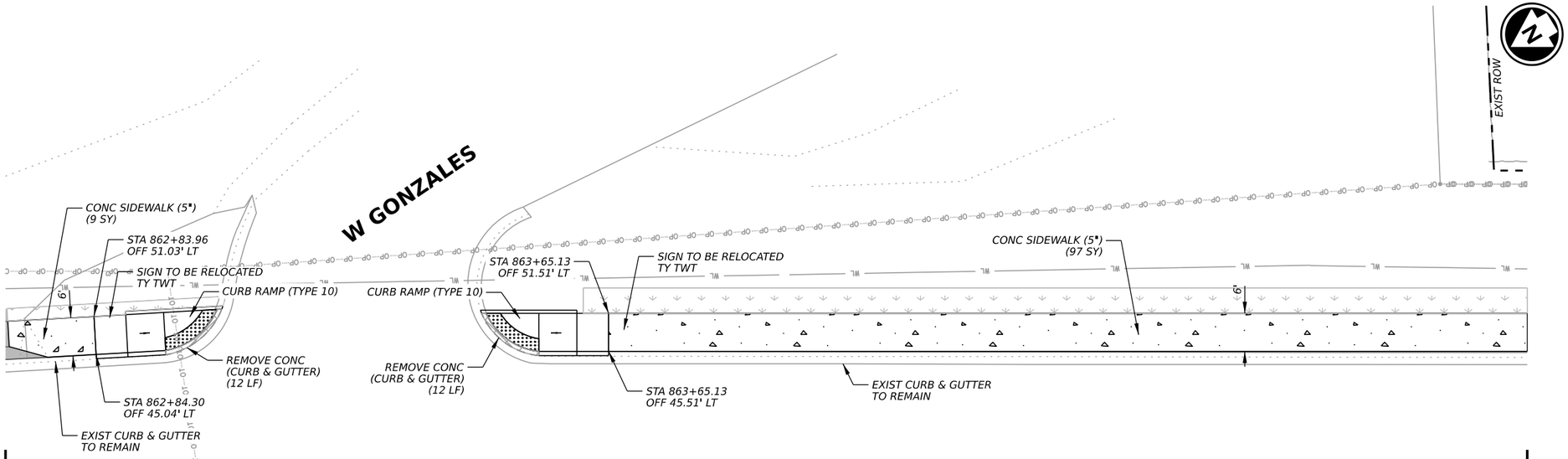

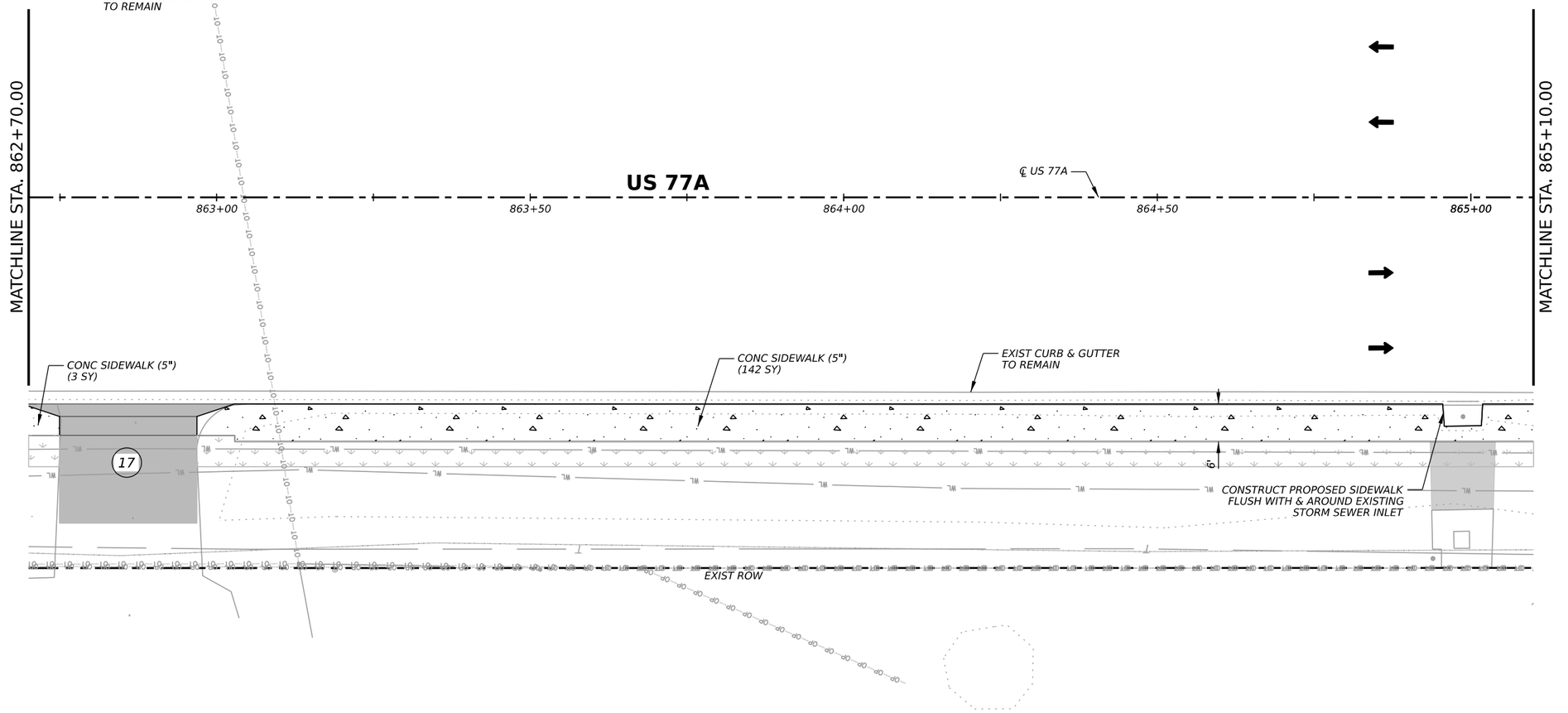

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

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SCALE: 1" = 20'

STATE OF TEXAS
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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM

CSJ: 0269-04-041, 0269-05-037

SHEET 9 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		174

DATE: 6/4/2024 6:41:19 PM
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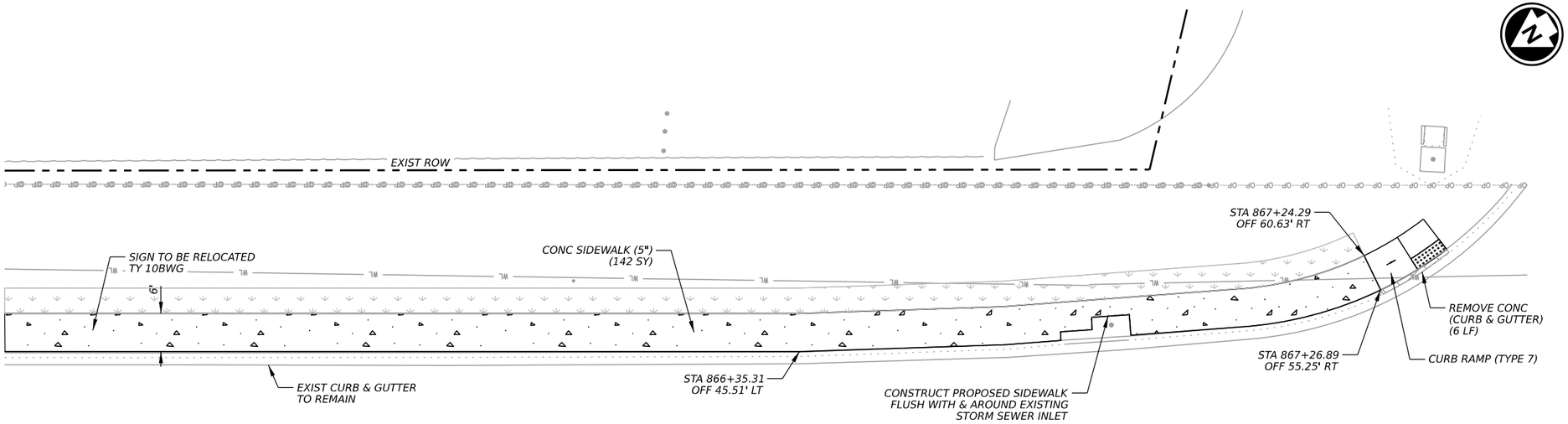

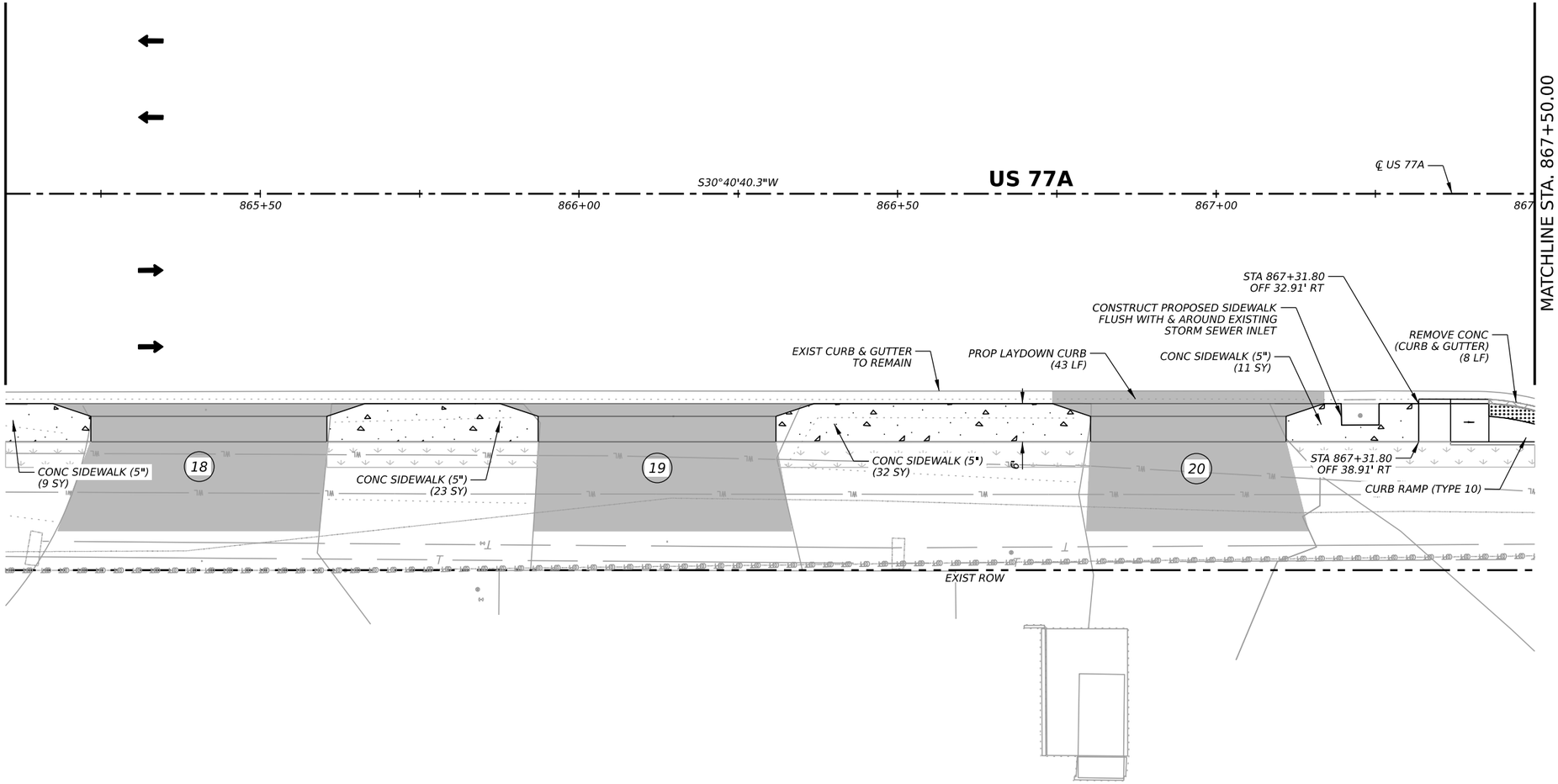

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

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SCALE: 1" = 20'

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM

CSJ: 0269-04-041, 0269-05-037

SHEET 10 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		175

DATE: 6/4/2024 6:41:21 PM
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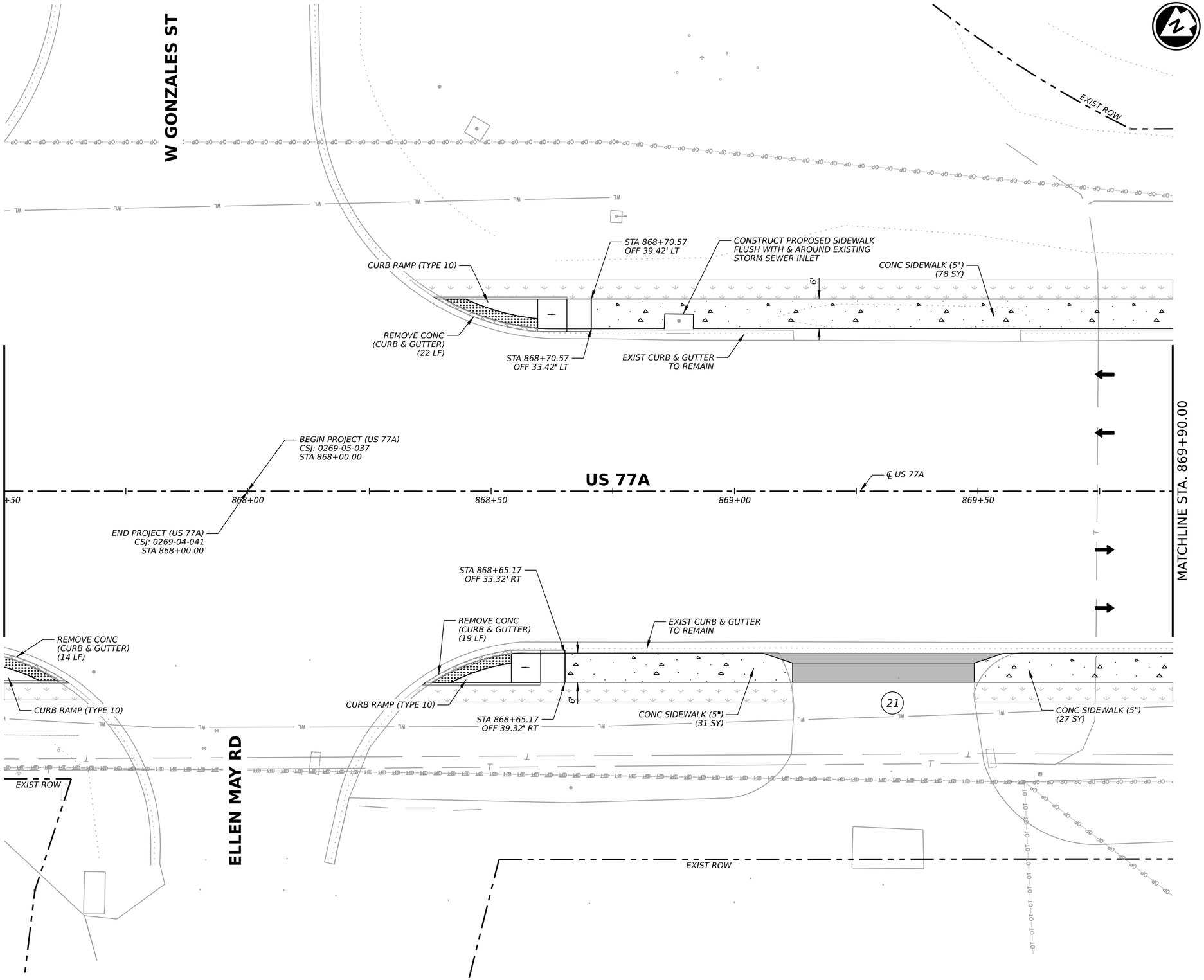

LEGEND

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM CSJ: 0269-04-041, 0269-05-037

SHEET 11 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		176

DATE: 6/4/2024 6:41:22 PM
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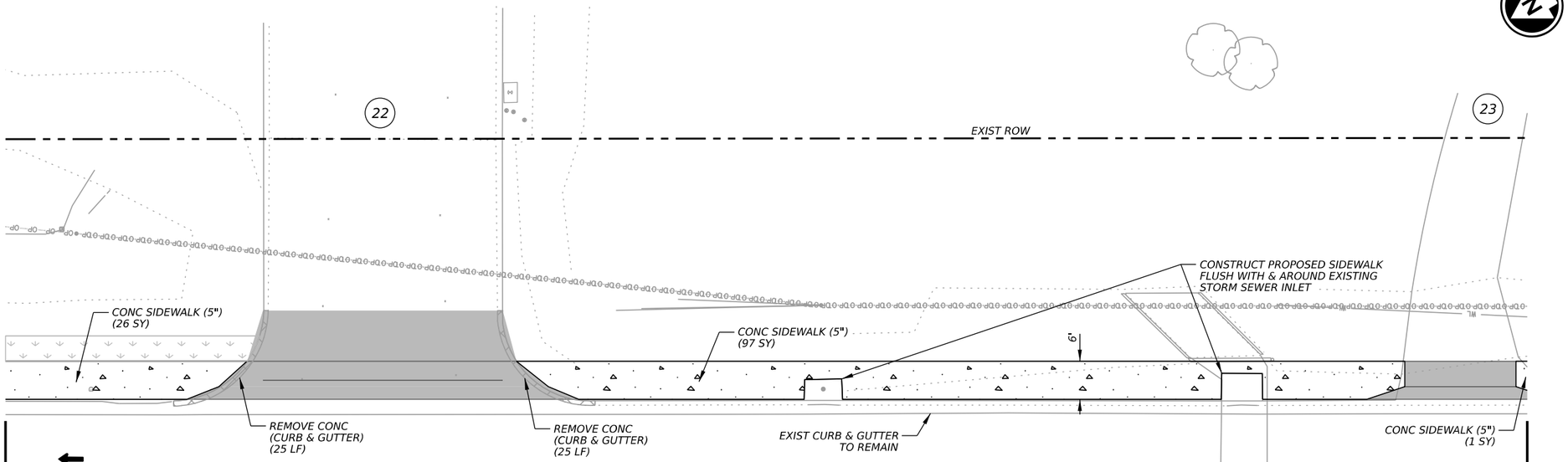
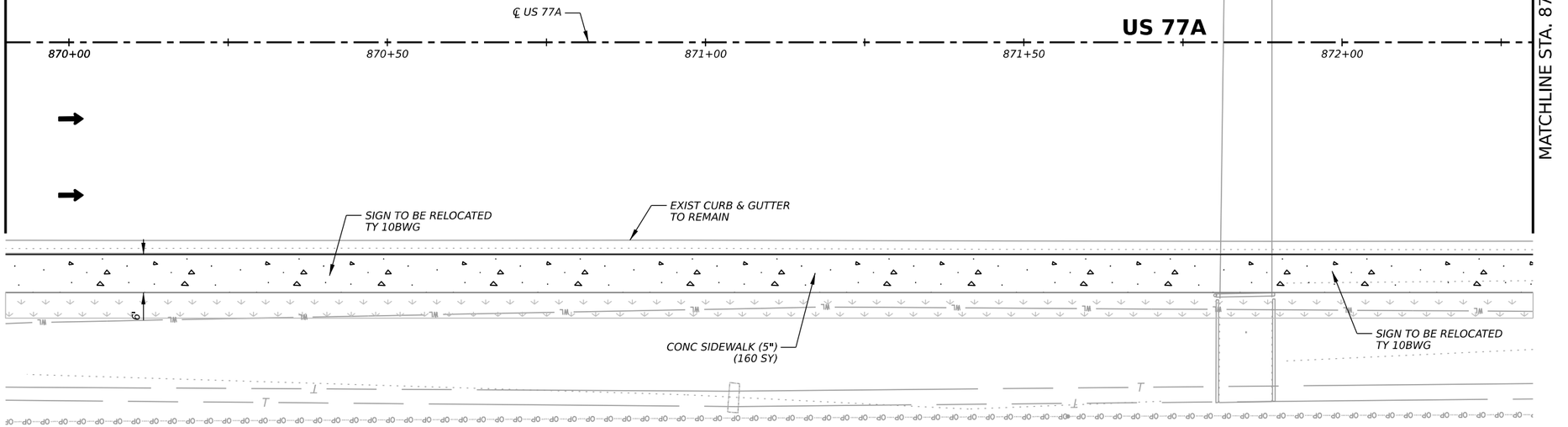


MATCHLINE STA. 869+90.00



MATCHLINE STA. 872+30.00

LEGEND

- DIRECTION OF TRAFFIC
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- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
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0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
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PROFESSIONAL ENGINEER

6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM

CSJ: 0269-04-041, 0269-05-037

SHEET 12 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		177

DATE: 6/4/2024 6:41:24 PM
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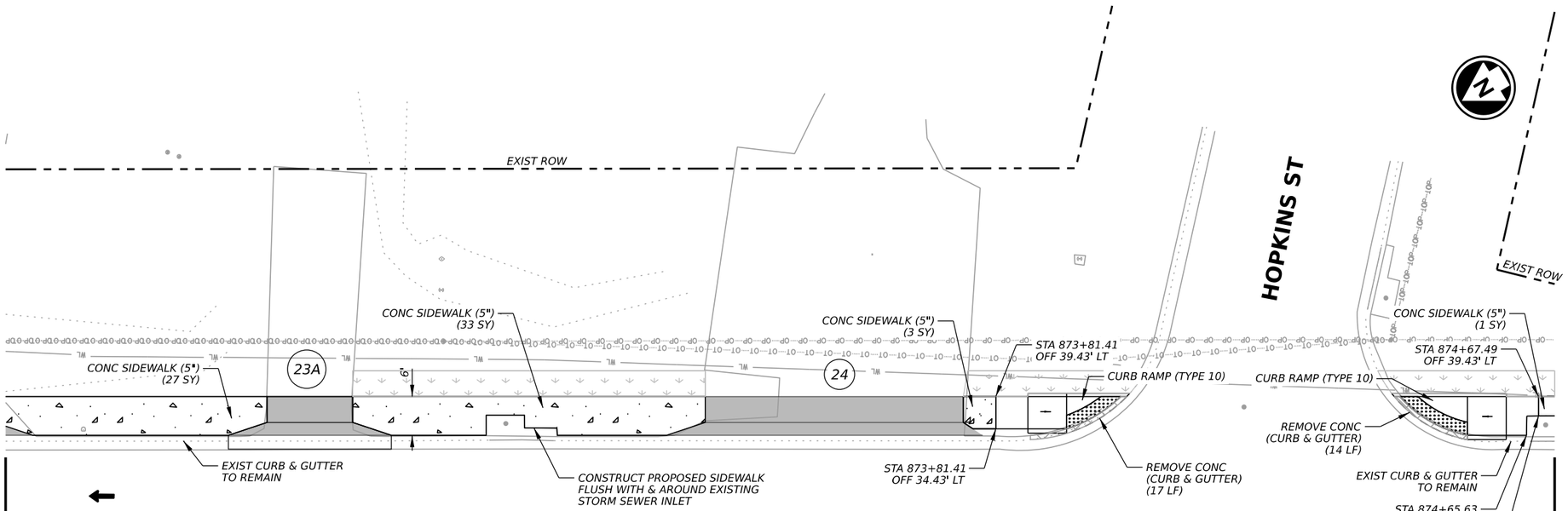

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM

CSJ: 0269-04-041, 0269-05-037

SHEET 13 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		178

DATE: 6/4/2024 6:41:25 PM
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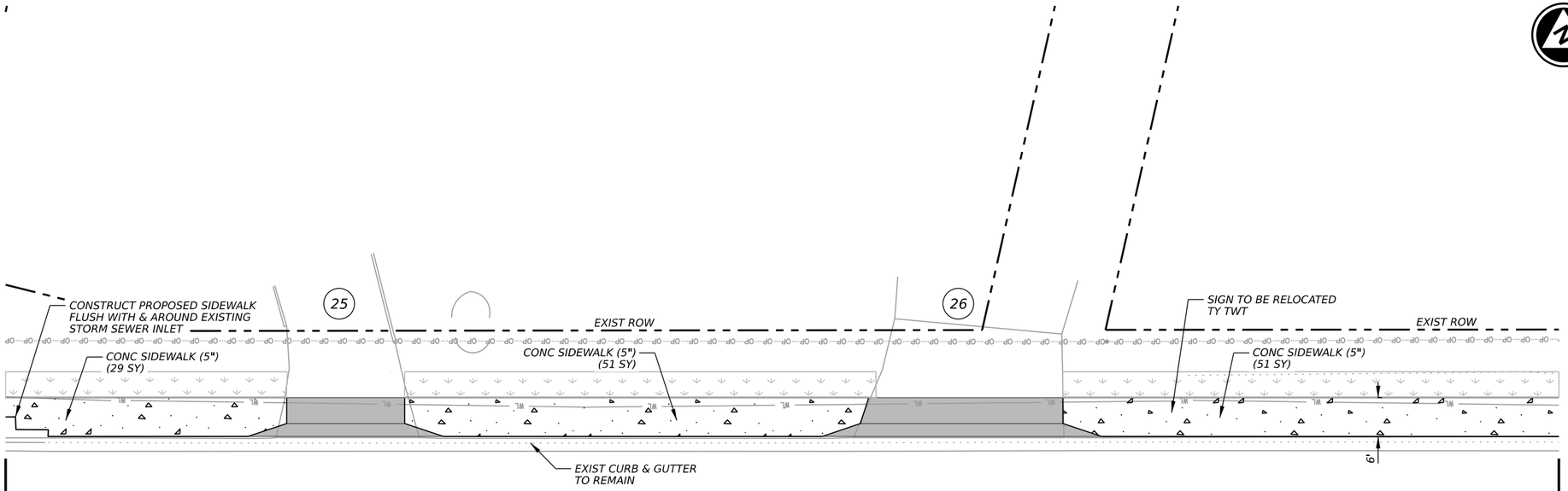


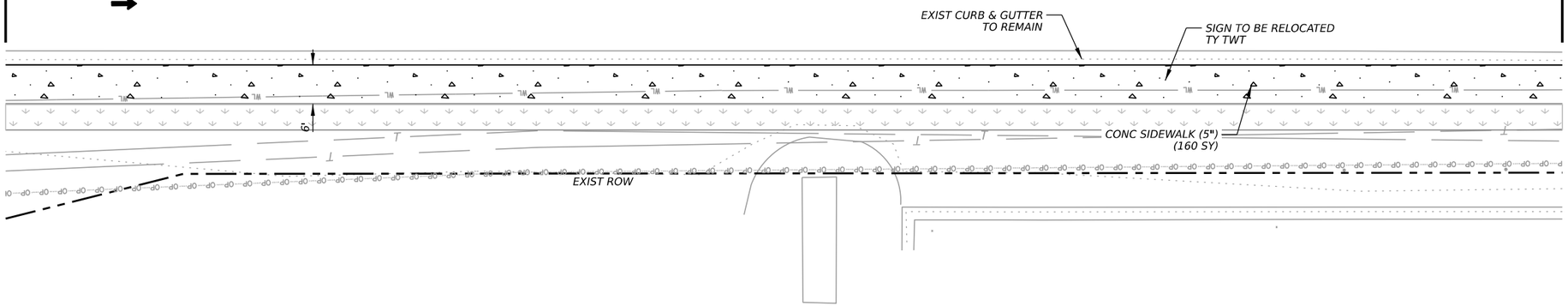
MATCHLINE STA. 874+70.00

MATCHLINE STA. 877+10.00

US 77A

℄ US 77A

875+00 875+50 876+00 876+50 877+00



LEGEND

- DIRECTION OF TRAFFIC
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- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
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- CUT AND RESTORE SURFACE
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0 10 20

SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 14 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		179

DATE: 6/4/2024 6:41:27 PM
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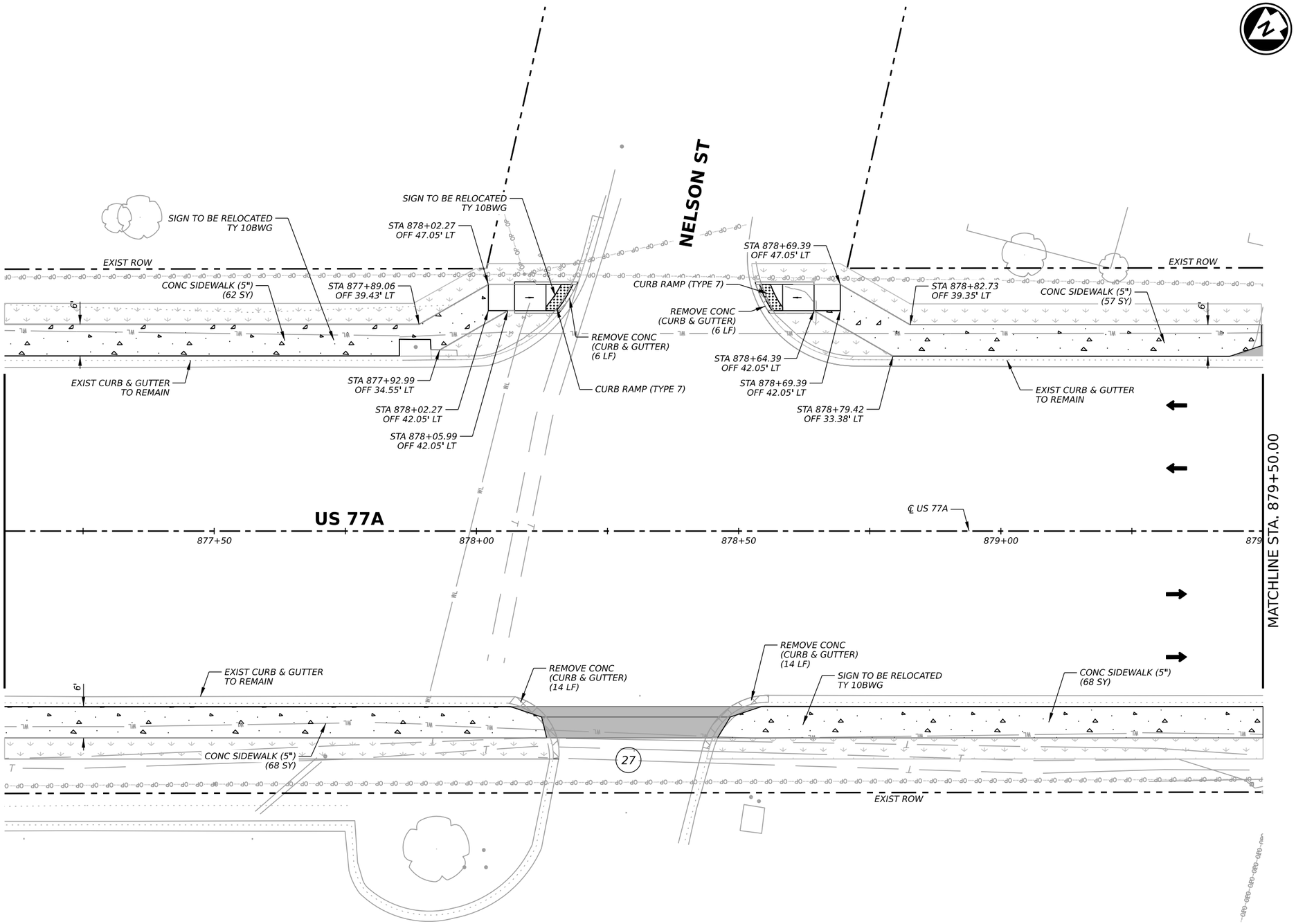

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM

CSJ: 0269-04-041, 0269-05-037

SHEET 15 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		180

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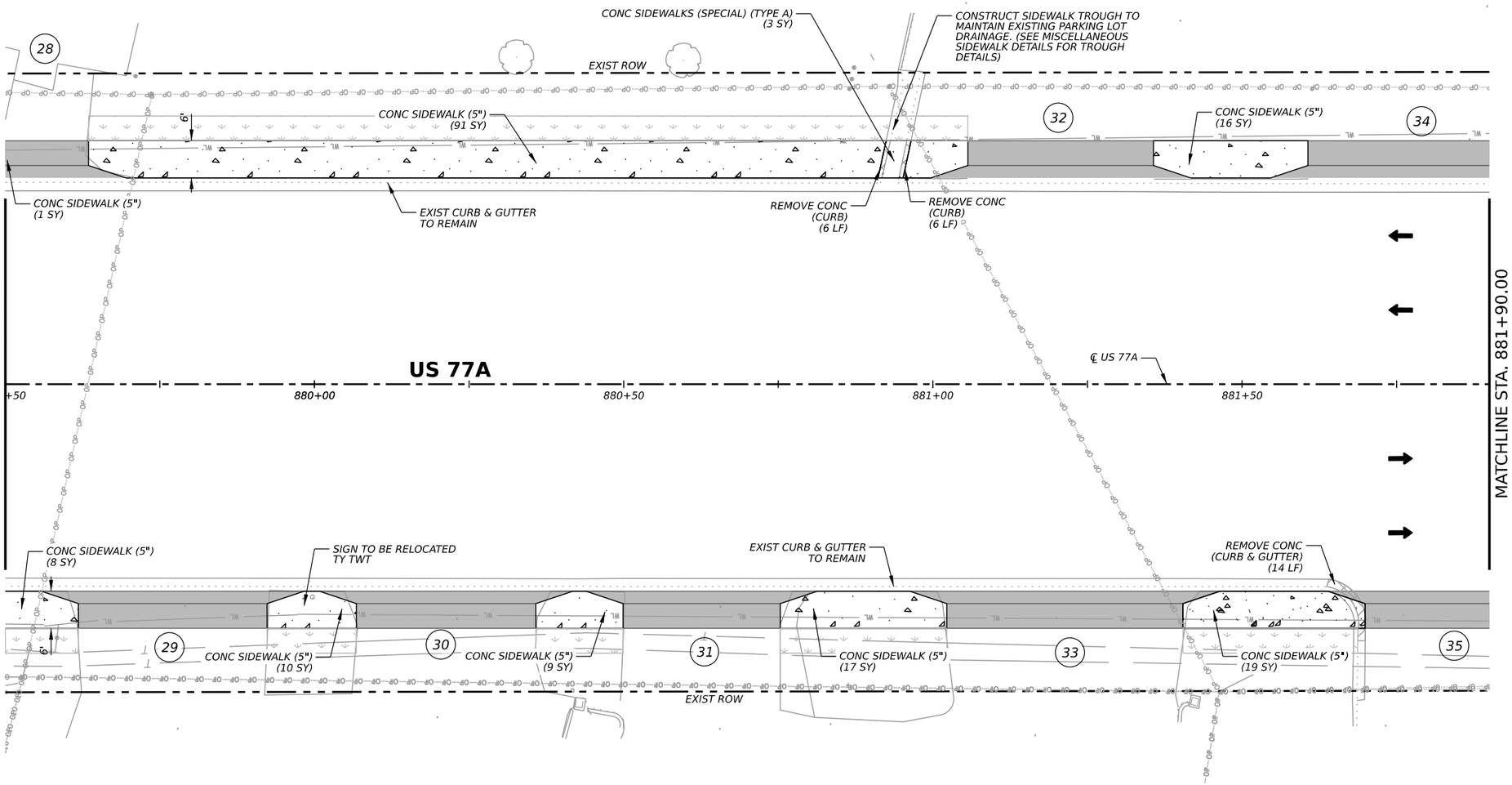

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2. ALL EXISTING R.O.W. IS APPARENT, ACTUAL R.O.W MAY VARY.
3. ALL MAILBOX AND SIGN RELOCATIONS SHOWN ARE AS-NEEDED AND TO BE DETERMINED IN THE FIELD.
4. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONC SIDEWALK (SPECIAL) (TY A) (SY).
5. UNLESS OTHERWISE NOTED AND/OR SHOWN IN THE PLANS, PROPOSED SIDEWALKS ADJACENT TO EXISTING CURB SHALL BE SLOPED 1.5% (MAX) TOWARDS NEAREST ROADWAY. PROPOSED SIDEWALKS OFFSET TO EXISTING EDGE OF PAVEMENT SHALL BE SLOPED 1.50% (MAX) IN THE DIRECTION OF EXISTING GRADE.
6. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
7. AREAS OF SODDING ARE QUANTIFIED BY SHEET IN THE SUMMARY TABLE.

0 10 20

SCALE: 1" = 20'

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

Angela Renger

6/4/2024

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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 16 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		181

DATE: 6/4/2024 6:41:29 PM
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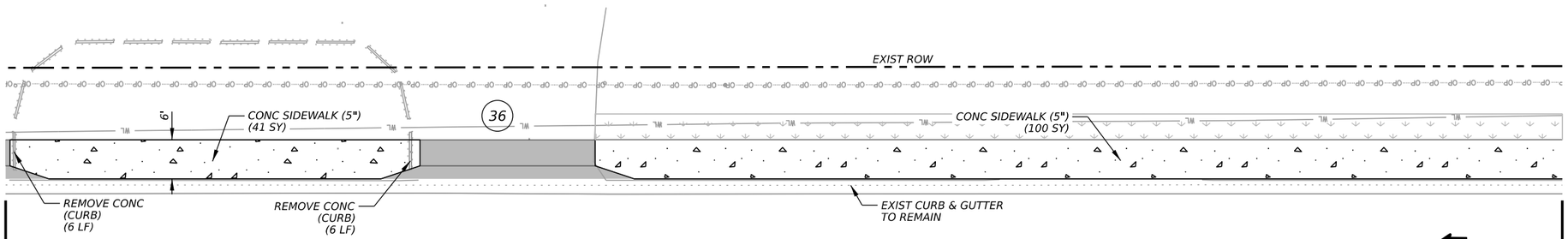

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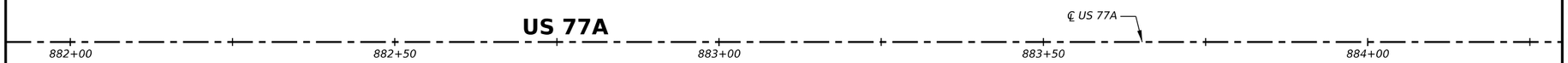

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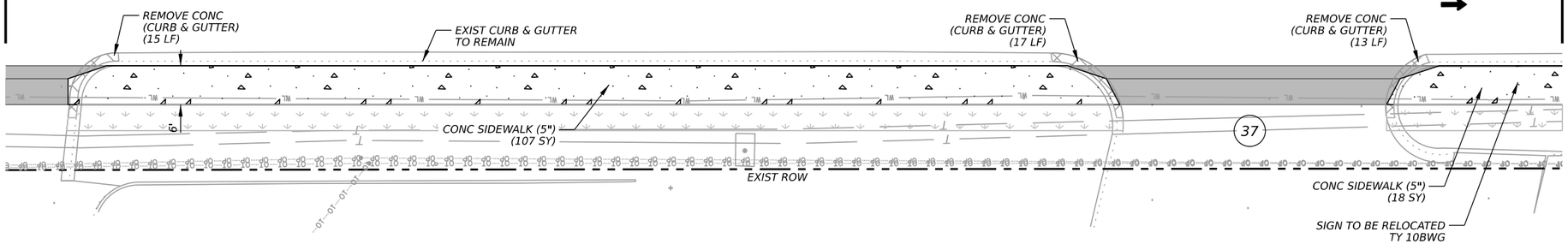

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
- CUT AND RESTORE SURFACE
- SODDING AREA

NOTES:

1. IN AREAS WHERE OBSTACLES ARE TO REMAIN WITHIN SIDEWALK, INCREASE WIDTH OF SIDEWALK TO PROVIDE 48" (MIN) CLEAR SIDEWALK WIDTH.
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0 10 20
SCALE: 1" = 20'

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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

SIDEWALK
PLAN LAYOUT
US 77A YOAKUM
CSJ: 0269-04-041, 0269-05-037

SHEET 17 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		182

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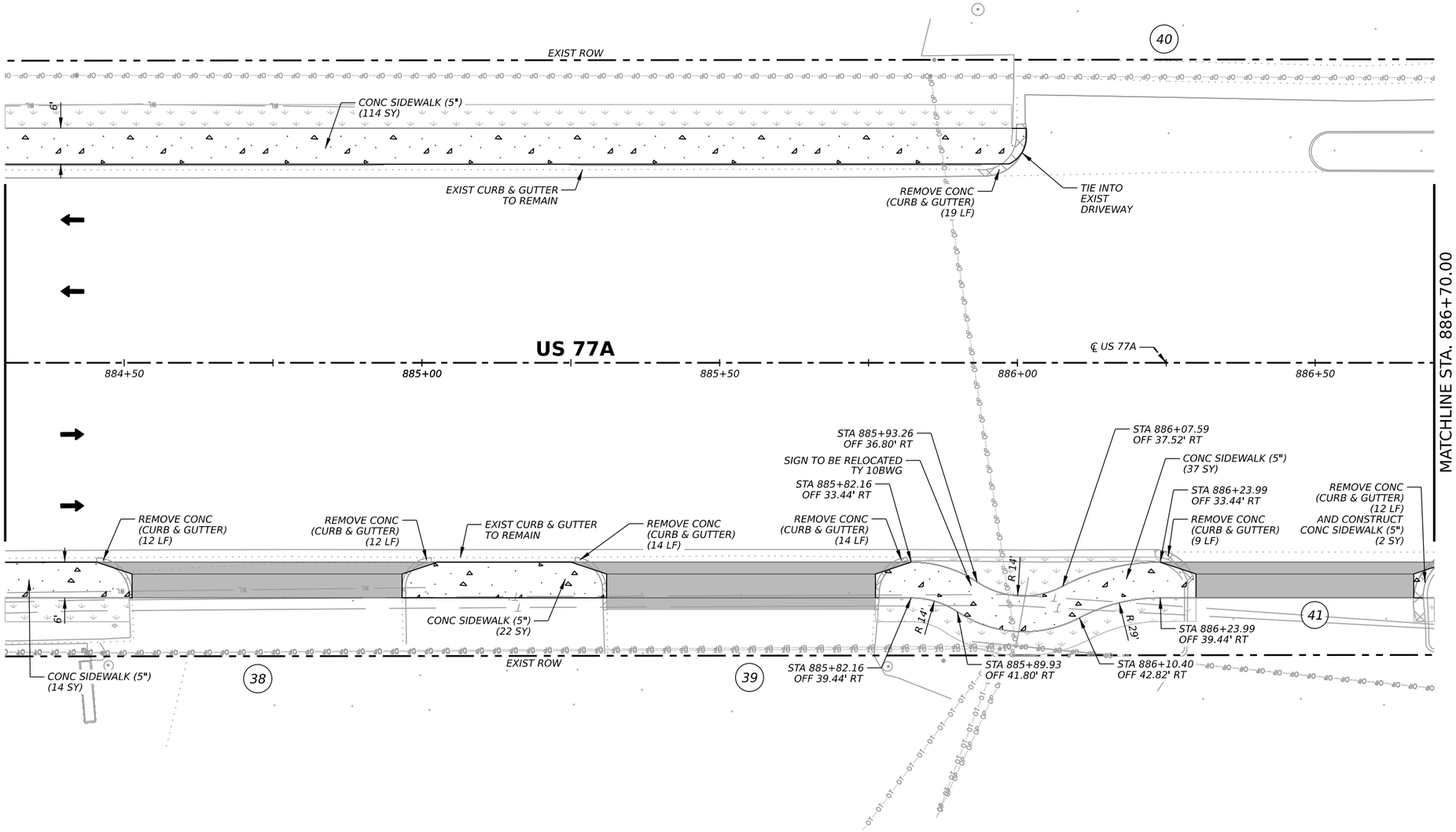

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
- REMOVAL (CONCRETE)
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SCALE: 1" = 20'

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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM

CSJ: 0269-04-041, 0269-05-037

SHEET 18 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		183

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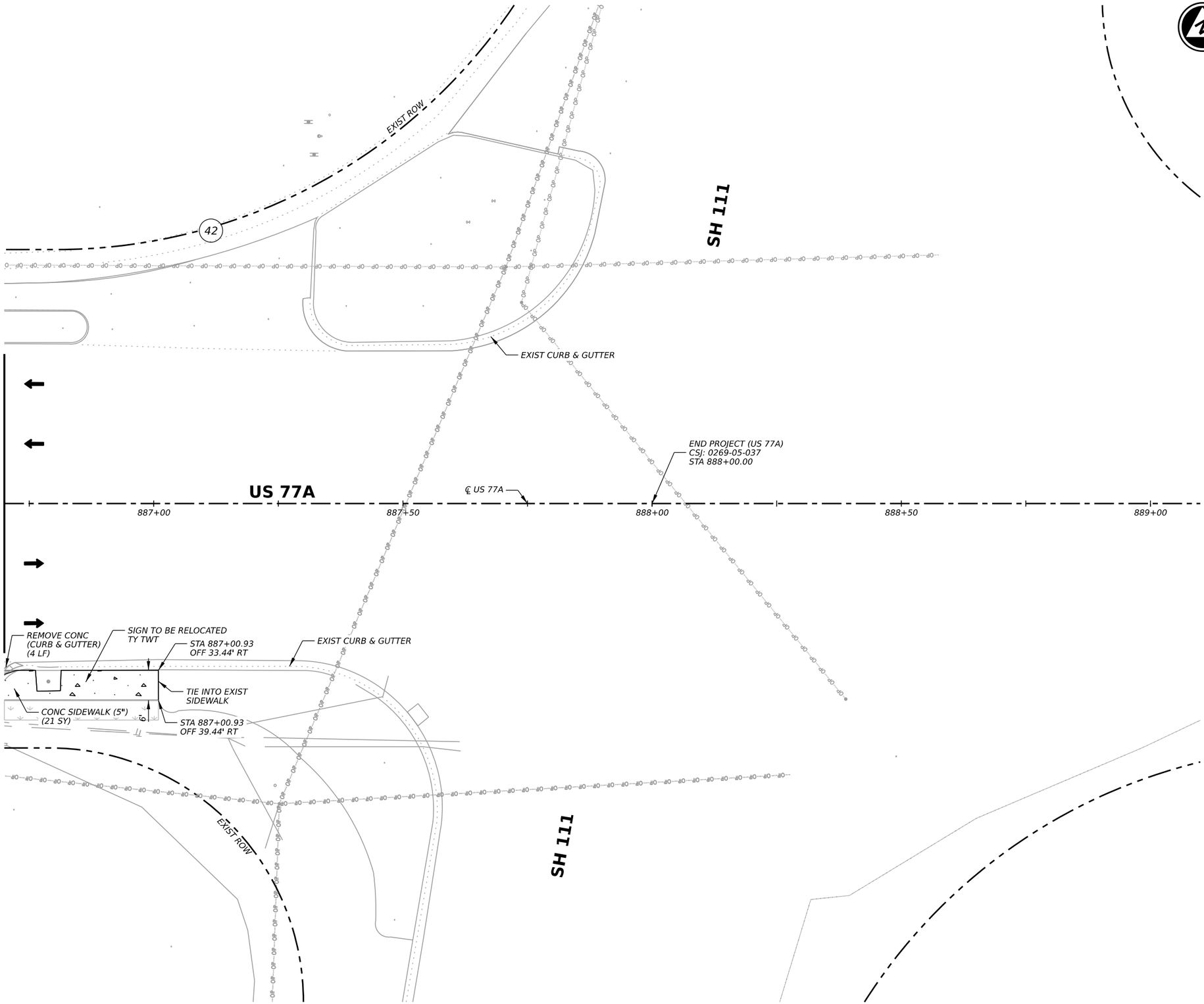

LEGEND

- DIRECTION OF TRAFFIC
- DRIVEWAY NUMBER
- DRIVEWAY (PROP RECONSTRUCTION)
- SIDEWALK
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YKM DISTRICT SIDEWALKS

SIDEWALK PLAN LAYOUT US 77A YOAKUM

CSJ: 0269-04-041, 0269-05-037

SHEET 19 OF 19

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		184

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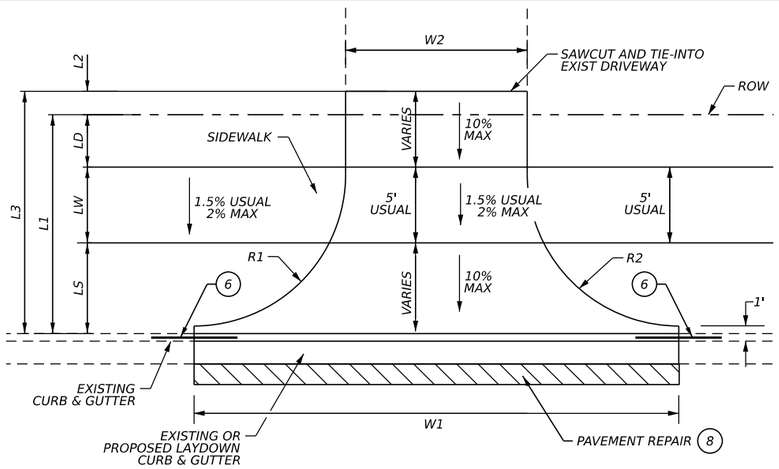
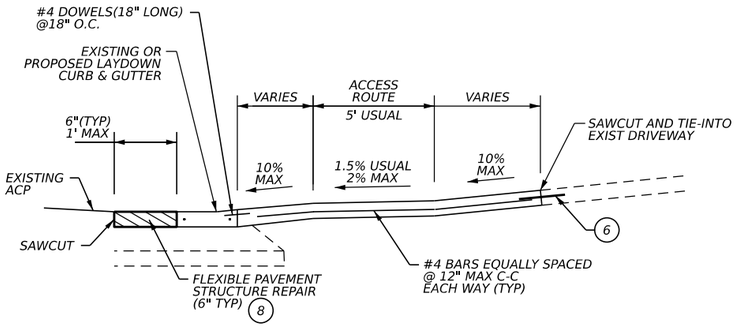
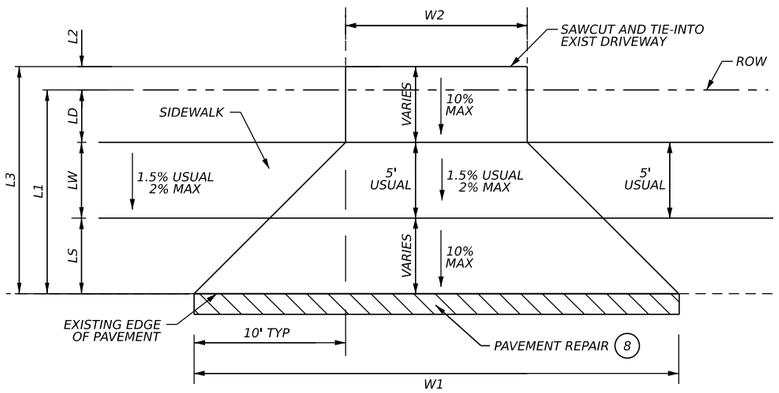


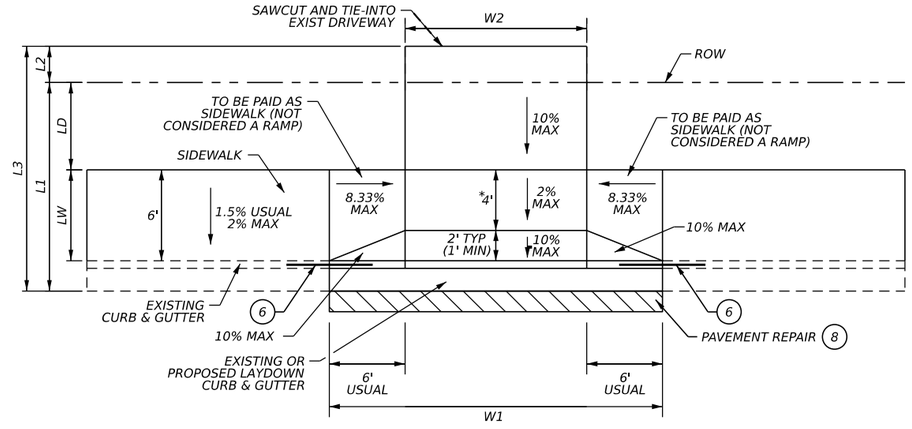
DRIVEWAY DETAIL / SIDEWALK OFFSET FROM CURB
PLAN VIEW



DRIVEWAY DETAIL / SIDEWALK OFFSET FROM CURB
SECTION VIEW

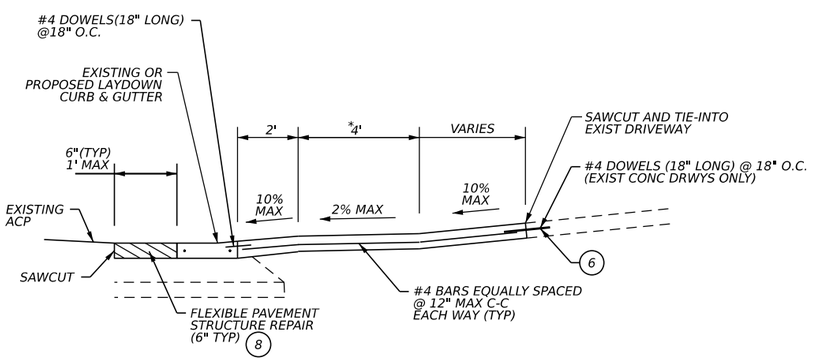


DRIVEWAY DETAIL / SIDEWALK OFFSET FROM EDGE OF PAVEMENT
PLAN VIEW



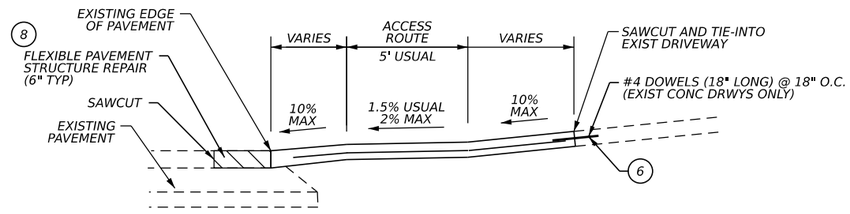
DRIVEWAY DETAIL / SIDEWALK ADJACENT TO CURB
PLAN VIEW

NOTE:*
ACCESS ROUTE TO BE 3' MIN THRU DRIVEWAY WHEN SIDEWALK IS 5' WIDE AND ADJACENT TO CURB



DRIVEWAY DETAIL / SIDEWALK ADJACENT TO CURB
SECTION VIEW

*NOTE *:*
ACCESS ROUTE TO BE 3' MIN THRU DRIVEWAY WHEN SIDEWALK IS 5' WIDE AND ADJACENT TO CURB



DRIVEWAY DETAIL / SIDEWALK OFFSET FROM EDGE OF PAVEMENT
SECTION VIEW

GENERAL NOTES

1. *PROVIDE 1/2" DEEP TOOLED OR SAW CUT JOINTS EVENLY SPACED AT 5' TYP / 10' MAX SPACING. PROVIDE MEDIUM BROOM FINISH TO CONCRETE SURFACE.*
2. *PROVIDE EXPANSION JOINTS AT 40' MAX SPACING.*
3. *EMBANKMENT, SAND, AND FLEX BASE MATERIAL FOR SIDEWALK FOUNDATION ARE SUBSIDIARY TO ITEM 531.*
4. *DO NOT BLOCK EXISTING DRAINAGE PATHS OR APPURTENANCES WITH PROPOSED SIDEWALK.*
5. *IF CURB & GUTTER AND SIDEWALK ARE NOT PLACED MONOLITHICALLY, PROVIDE 1/2" EXPANSION JOINT MATERIAL AND JOINT SEALING COMPOUND BETWEEN SIDEWALK AND CURB & GUTTER.*
6. *DRILL AND EMBED 1/2" DIA DOWEL BAR INTO EXISTING CONCRETE DRIVEWAY OR CURB AS APPROVED BY THE ENGINEER AND TIE TO PROPOSED REINFORCEMENT*
7. *AT EXISTING DRIVEWAYS WITH EXISTING LAYDOWN CURB, REMOVE EXISTING CURB TAPER AND REPLACE THE CURB TAPER AT 10% MAX SLOPE FROM OPEN SECTION TO 6" FULL CURB AND GUTTER SECTION*
8. *FLEXIBLE PAVEMENT STRUCTURE REPAIRS WILL CONSIST OF THE REMOVAL OF EXISTING BASE AND SURFACING AND REPLACEMENT WITH 6" DEPTH OF ASPHALTIC CONCRETE PAVEMENT CONFORMING TO ITEM 334, HOT MIX COLD LAID ASPHALT CONCRETE PAVEMENT. ALL WORK AND MATERIALS REQUIRED TO BRING THE REPAIRED PAVEMENT SECTION TO ITS DESIRED DEPTH WILL BE CONSIDERED SUBSIDIARY TO THE ASSOCIATED BID ITEMS.*

STATE OF TEXAS
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6/4/2024

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Texas Department of Transportation

YKM DISTRICT SIDEWALKS

MISCELLANEOUS DRIVEWAY DETAILS

SHEET 1 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		185

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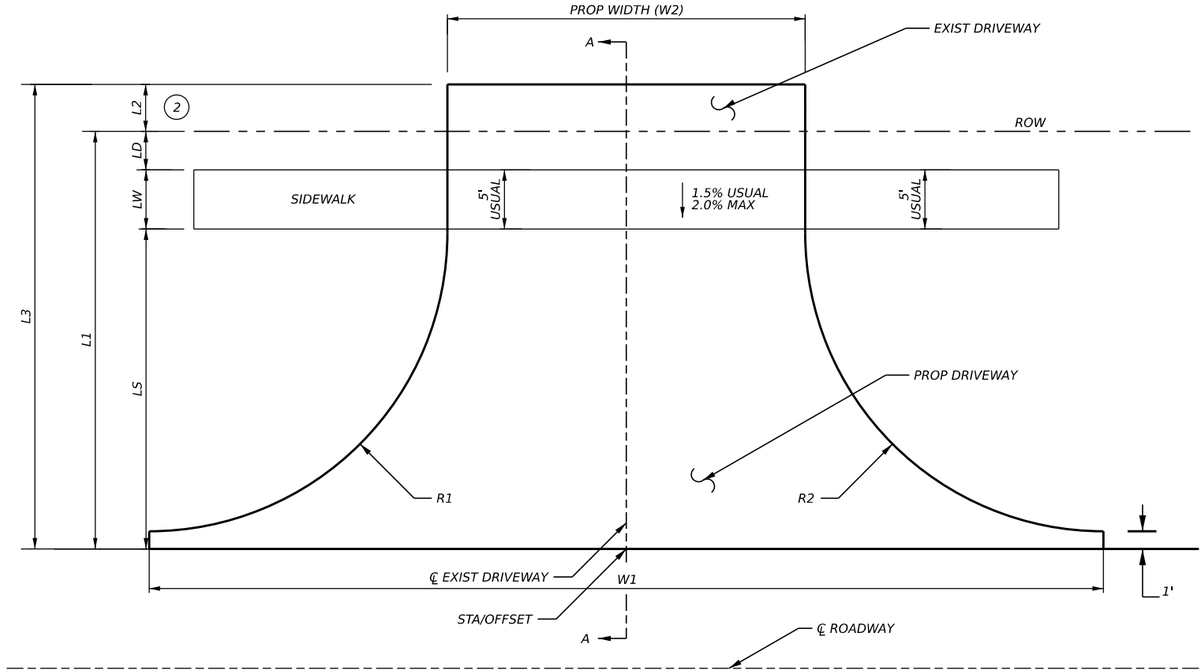
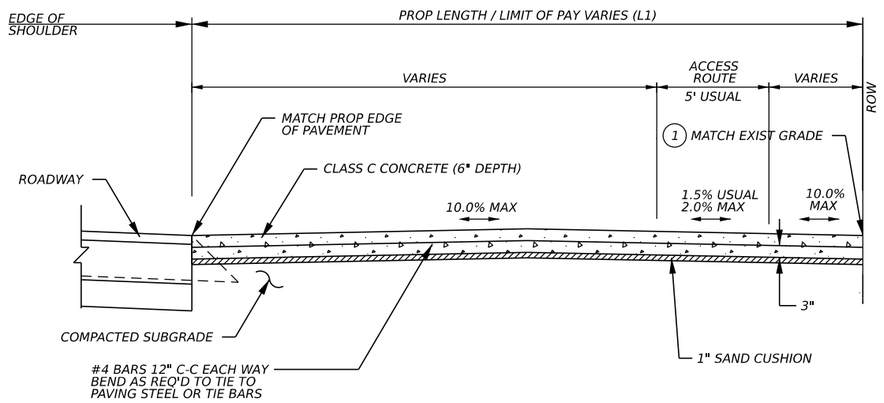


PLAN



SECTION A-A

DRIVEWAYS (CONC)

GENERAL NOTES

1. SAW CUT JOINT AT LIMITS OF PAY LINE ON DRIVEWAYS OR INTERSECTIONS WITH EXISTING SURFACE.
2. CONTRACTOR TO CONTACT LANDOWNER ONE WEEK IN ADVANCE TO CONFIRM EASEMENT, WHERE NECCESSARY, PRIOR TO RECONSTRUCTING DRIVEWAY.
3. REMOVAL OF EXISTING DRIVEWAY PAVEMENT, OTHER THAN CONC. PAVEMENT, IS CONSIDERED INCIDENTAL EXCAVATION TO ITEM 530

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YKM DISTRICT SIDEWALKS

MISCELLANEOUS DRIVEWAY DETAILS

SHEET 2 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		186

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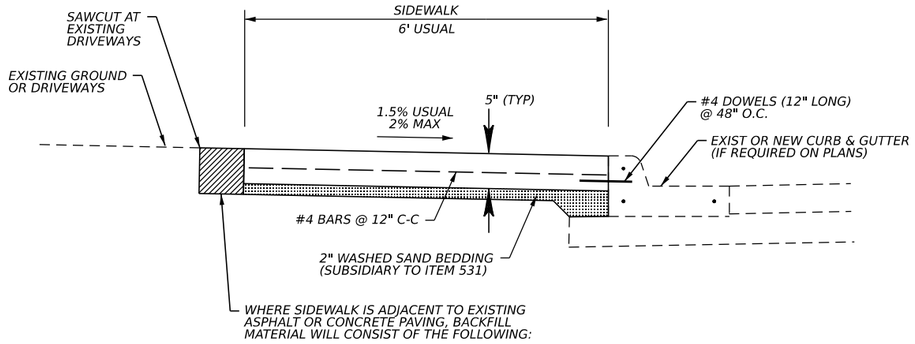


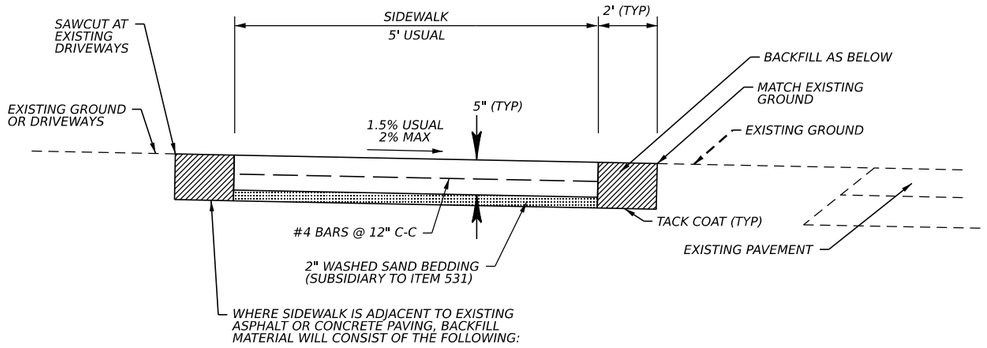
ASPHALT SURFACE, BACKFILL SHALL BE 6" OF ITEM 334 - HOT-MIX COLD LAID ASPHALT CONCRETE PAVEMENT

CONCRETE SURFACE, BACKFILL SHALL BE 6" OF ITEM 360 - CONCRETE PAVEMENT

VEGETATIVE AREAS, BACKFILL WILL CONSIST OF NATIVE MATERIALS AND WILL BE CONSIDERED SUBSIDIARY TO ITEM 531. MATERIAL EXCAVATED FOR SIDEWALK MAY BE USED IF APPROVED BY THE ENGINEER.

THIS WORK, INCLUDING EXCAVATION, EMBANKMENT, AND BACKFILL WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS.

CUT AND RESTORE DETAIL ADJACENT TO CURB



ASPHALT SURFACE, BACKFILL SHALL BE 6" OF ITEM 334 - HOT-MIX COLD LAID ASPHALT CONCRETE PAVEMENT

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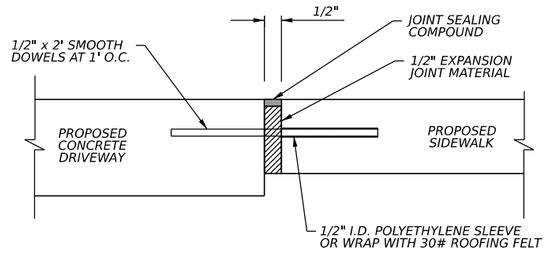
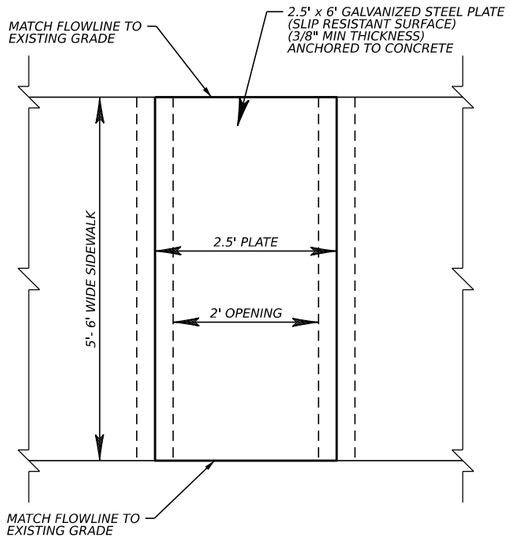
CUT AND RESTORE DETAIL OFFSET FROM EDGE OF PAVEMENT



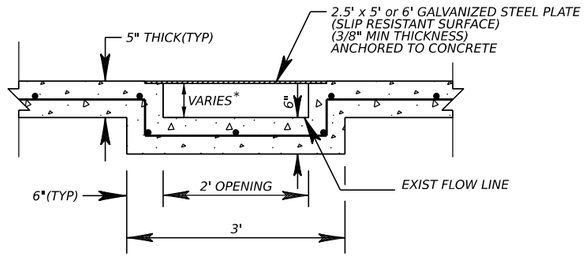
EXPANSION JOINT DETAIL

(ALL WORK & MATERIALS FOR EXPANSION JOINTS SHALL BE CONSIDERED SUBSIDIARY TO ITEM 531)



SIDEWALK TROUGH DETAIL (6)

PLAN VIEW



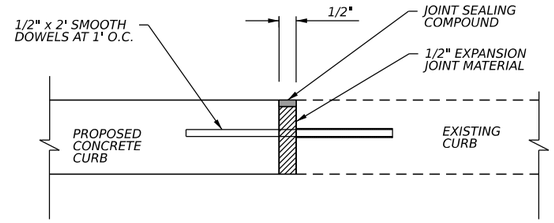
SIDEWALK TROUGH DETAIL (6)

SECTION VIEW

NOTE * DEPTH VARIES.(4" MIN) MATCH FLOWLINE TO EXISTING GRADE

SIDEWALK GENERAL NOTES

1. PROVIDE 1/2" DEEP TOOLED OR SAW CUT JOINTS EVENLY SPACED AT 5' TYP / 10' MAX SPACING. PROVIDE MEDIUM BROOM FINISH TO CONCRETE SURFACE.
2. PROVIDE EXPANSION JOINTS AT 40' MAX SPACING.
3. EMBANKMENT, SAND, AND FLEX BASE MATERIAL FOR SIDEWALK FOUNDATION ARE SUBSIDIARY TO ITEM 531.
4. DO NOT BLOCK EXISTING DRAINAGE PATHS OR APPURTENANCES WITH PROPOSED SIDEWALK.
5. IF CURB & GUTTER AND SIDEWALK ARE NOT PLACED MONOLITHICALLY, PROVIDE 1/2" EXPANSION JOINT MATERIAL AND JOINT SEALING COMPOUND BETWEEN SIDEWALK AND CURB & GUTTER.
6. SIDEWALK TROUGH LABOR AND MATERIALS WILL BE PAID FOR UNDER ITEM 531 CONCRETE SIDEWALKS (SPECIAL)(TYPE A)(SY).



TIE INTO EXISTING CURB DETAIL

(ALL WORK & MATERIALS FOR EXPANSION JOINTS SHALL BE CONSIDERED SUBSIDIARY TO ITEM 529)

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YKM DISTRICT SIDEWALKS

MISCELLANEOUS SIDEWALK DETAILS

SHEET 1 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		187

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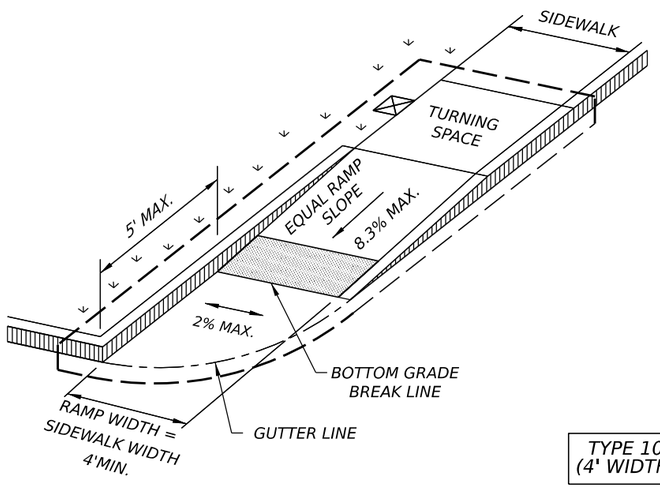
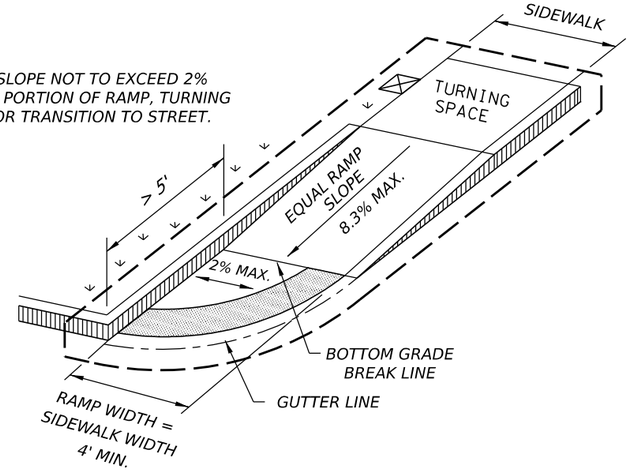


CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, TURNING SPACE OR TRANSITION TO STREET.



TYPE 10 (4' WIDTH)

(SIDEWALK ADJACENT TO CURB)

DIRECTIONAL RAMP WITHIN RADIUS

LOCATION OF TYPE 10 CURB RAMPS - 4' WIDTH

US 90 - WEIMAR

STA 802+80 LT

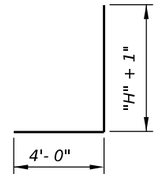
UA 90 - HALLETTSVILLE

STA 619+11 LT, STA 619+72 RT, STA 630+28 LT, STA 633+03 LT & STA 640+96 RT

NOTES / LEGEND:

SEE GENERAL NOTES ON SHEET 2 OF 4 OF THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD PED-18 FOR MORE INFORMATION.

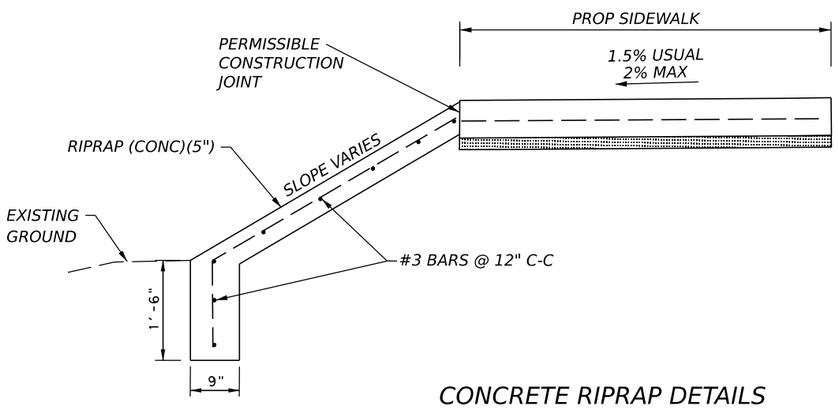
DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.		GUTTER LINE	—— – –
DETECTABLE WARNING SURFACE	▨	GRADE BREAK	.....
DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.	⊠	RAMP LIMITS OF PAYMENT	— —



BAR "LC"

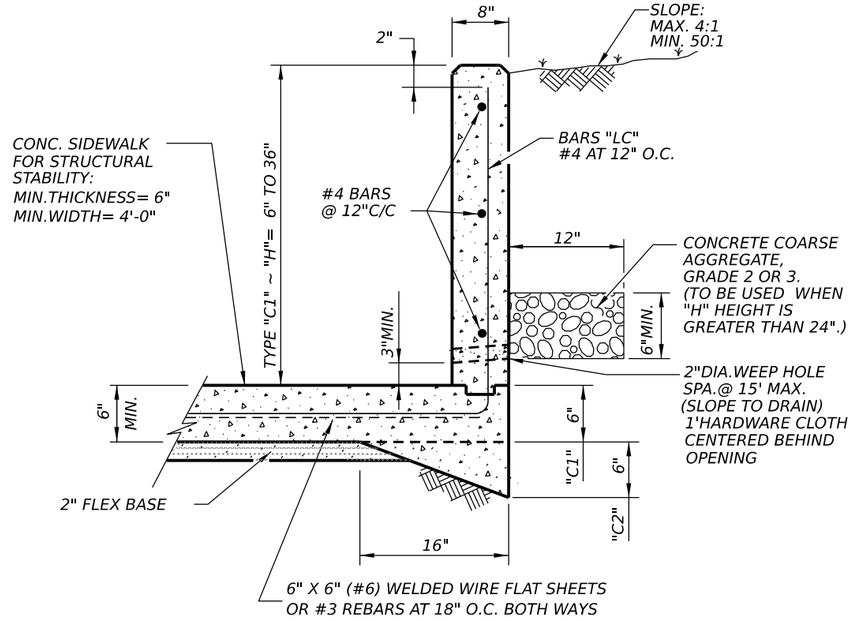
NOTES FOR TYPE C1 CURB:
ALL CONCRETE SHALL BE CLASS "C".
ALL REINFORCING STEEL SHALL BE GRADE 60.

DESIGN SOIL PARAMTERS:
SOIL UNIT WT. = 120 PCF
PHI = 30 DEGREES
COHESION = 50 PSF
MIN. PI = 15
MAX. PI = 30
SURCHARGE:
MAX. SLOPE BEHIND TYPE C CURB = 4:1
MIN. FACTOR OF SAFETY AGAINST SLIDING IS 1.5.
DESIGNED IN ACCORDANCE WITH CURRENT AASHTO STANDARDS AND INTERIM SPECIFICATIONS.



CONCRETE RIPRAP DETAILS SECTION VIEW

US 87 - CUERO
SH 95 - FLATONIA



TYPE "C1" CURB

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER
Angela Renger
6/4/2024

BGE, Inc.
1701 Directors Boulevard, Suite 1000, Austin, TX 78744
Tel: 512-879-0400 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation

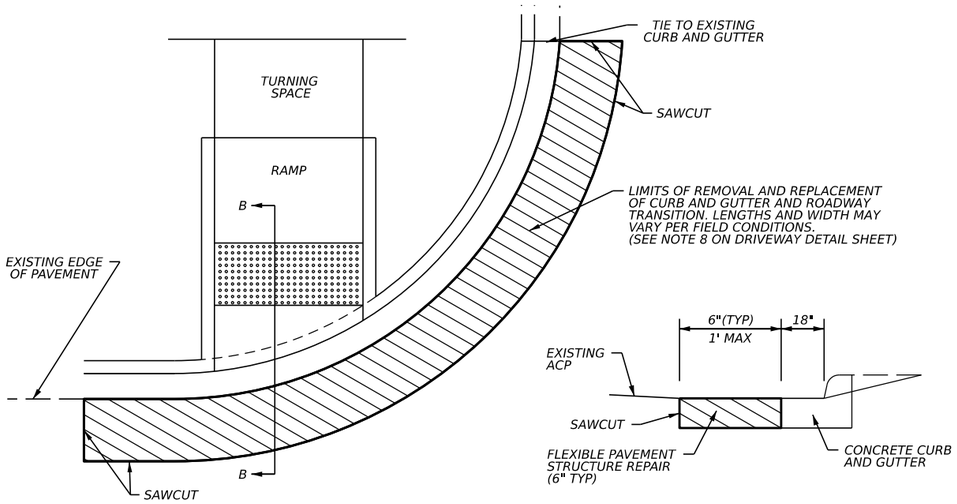
YKM DISTRICT SIDEWALKS

MISCELLANEOUS SIDEWALK DETAILS

SHEET 2 OF 2

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		188

DATE: 6/4/2024 6:41:38 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\15832-14 YKM Sidewalks Hallettsville Cuero etc\03 CADD\01_Shts\03-RDWY\YKM14_MISC_SIDEWALK_DETAILS_02.dgn

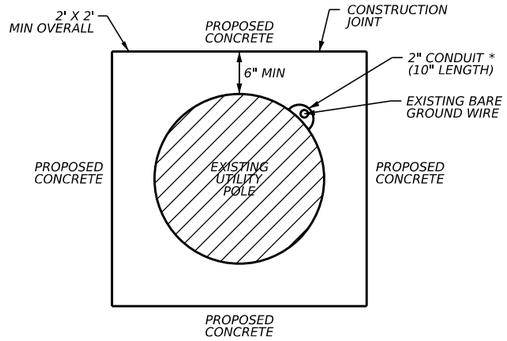


ROADWAY TRANSITION DETAIL PLAN VIEW

NOT TO SCALE

ROADWAY TRANSITION SECTION B-B

NOT TO SCALE



UTILITY POLE DETAIL TO PROTECT BARE GROUND WIRE

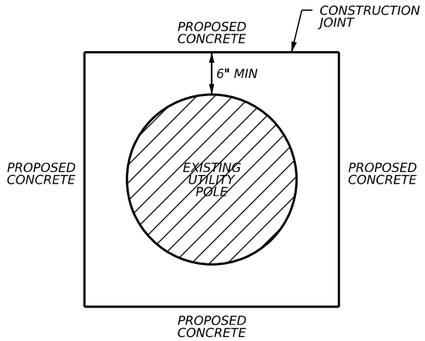
(ALL WORK IS CONSIDERED SUBSIDIARY TO ITEM 531, SIDEWALK OR CURB RAMP.)

NOT TO SCALE

* CUT CONDUIT IN HALF LENGTHWISE AND PLACE ONE END FLUSH WITH TOP OF SIDEWALK. PREVENT CONCRETE FROM ENTERING CONDUIT. FILL CONDUIT WITH EXPANSION FOAM OR OTHER WATERPROOF SEALANT TO PREVENT WATER COLLECTION.

SIDEWALK GENERAL NOTES

1. PROVIDE 1/2" DEEP TOOLED OR SAW CUT JOINTS EVENLY SPACED AT 5' TYP / 10' MAX SPACING. PROVIDE MEDIUM BROOM FINISH TO CONCRETE SURFACE.
2. PROVIDE EXPANSION JOINTS AT 40' MAX SPACING.
3. EMBANKMENT, SAND, AND FLEX BASE MATERIAL FOR SIDEWALK FOUNDATION ARE SUBSIDIARY TO ITEM 531.
4. DO NOT BLOCK EXISTING DRAINAGE PATHS OR APPURTENANCES WITH PROPOSED SIDEWALK.
5. IF CURB & GUTTER AND SIDEWALK ARE NOT PLACED MONOLITHICALLY, PROVIDE 1/2" EXPANSION JOINT MATERIAL AND JOINT SEALING COMPOUND BETWEEN SIDEWALK AND CURB & GUTTER.



UTILITY DETAIL (DETAIL TO BE USED FOR FIRE HYDRANT, MAILBOXES ETC.)

(ALL WORK IS CONSIDERED SUBSIDIARY TO ITEM 531, SIDEWALK OR CURB RAMP.)

NOT TO SCALE

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

6/4/2024

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TBPE Registration No. F-1046

Texas Department of Transportation

YKM DISTRICT SIDEWALKS

MISCELLANEOUS ROADWAY DETAILS

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90,ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		189

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DW: CK: DW: CK:

DATE: 6/4/2024
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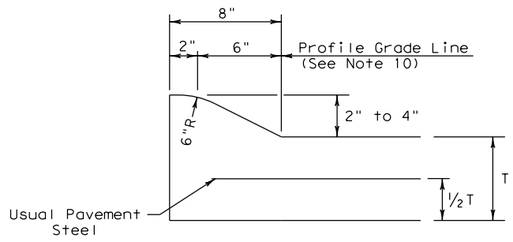
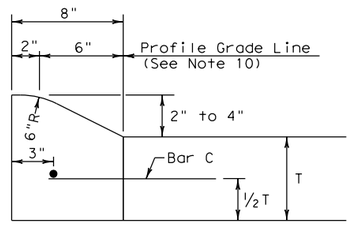


TYPE I CURB (MONOLITHIC)
2" - 4" HEIGHT



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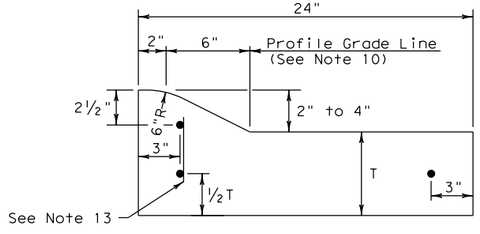
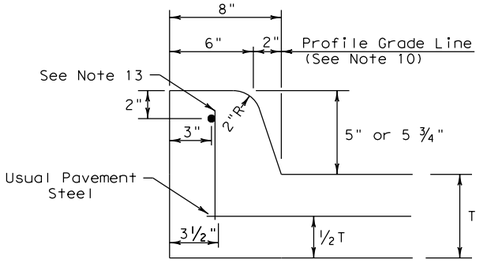
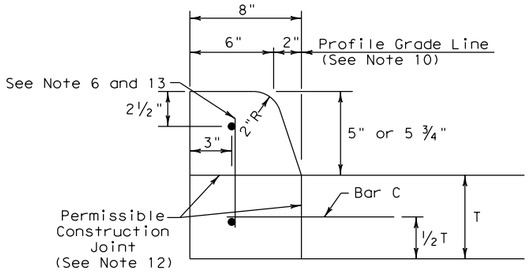
2" - 4" HEIGHT



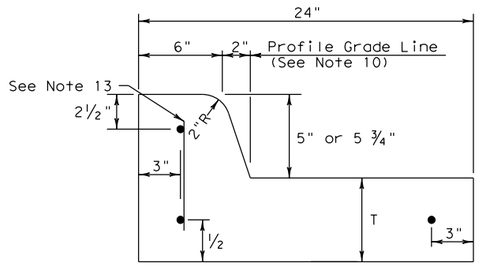
TYPE I CURB AND GUTTER
2" - 4" HEIGHT



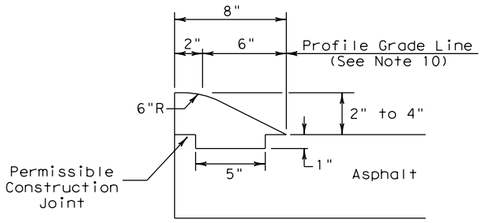
TYPE II CURB (MONOLITHIC)
5" - 5 ¾" HEIGHT



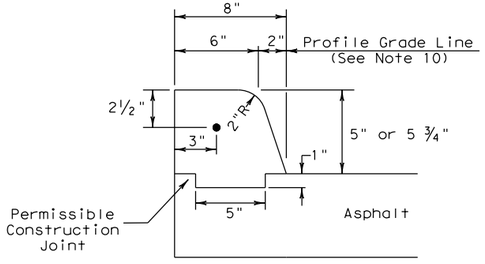
TYPE II CURB
5" - 5 ¾" HEIGHT



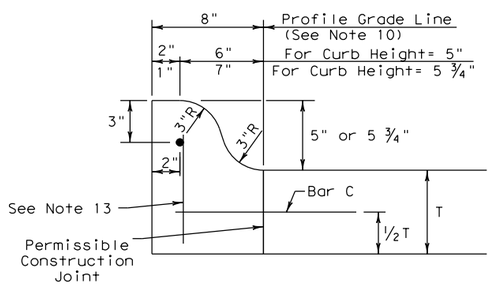
TYPE II CURB AND GUTTER
5" - 5 ¾" HEIGHT



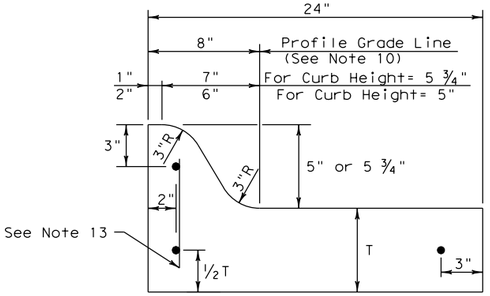
TYPE III CURB (KEYED)
2" - 4" HEIGHT



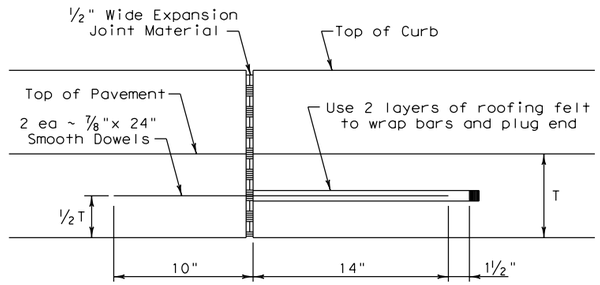
TYPE IV CURB (KEYED)
5" - 5 ¾" HEIGHT



TYPE IIa CURB
5" - 5 ¾" HEIGHT

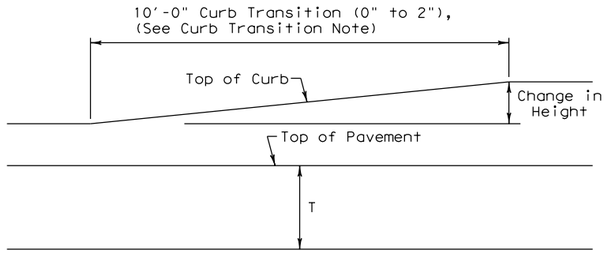


TYPE IIa CURB AND GUTTER
5" - 5 ¾" HEIGHT



EXPANSION JOINT DETAIL

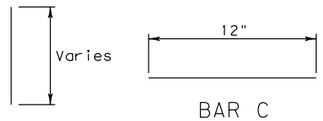
CURB TRANSITION NOTE:
Field conditions may require a longer or shorter transition, and shall be shown elsewhere in the plans, or as directed by the Engineer.



CURB TRANSITION
Note: To be paid for as Highest Curb

GENERAL NOTES

1. All materials and construction shall be in accordance with Item 529, "Concrete Curb, Gutter, and Combined Curb and Gutter."
2. Concrete shall be Class A.
3. When reinforcing bars are used, they shall be No.4 unless otherwise shown. The use of fiber reinforced concrete in lieu of reinforcing steel is acceptable. Use fibers meeting the requirements of DMS 4550, "Fibers for Concrete," and dose fibers in accordance with Material Producers List (MPL) "Fibers for Class A and B Concrete Applications."
4. Round exposed sharp edges with a rounding tool, to a minimum radius of ¼ inch.
5. All existing curbs and driveways to be removed shall be sawed or removed at existing joints.
6. Where concrete curb is to be placed on existing concrete pavement, Bar B may be drilled and grouted in place, or may be inserted into fresh concrete.
7. Expansion and contraction joints shall be constructed to match pavement joints in all curbs and curb and gutter adjacent to jointed concrete pavement. Where placement of curb or curb and gutter is not adjacent to concrete pavement, expansion joints shall be provided at structures, curb returns at streets, and at locations directed by The Engineer.
8. Vertical and horizontal dowel bars and transverse reinforcing bars shall be placed at four feet C~C.
9. Dimension 'T' shown is the thickness of concrete pavement. When curb is installed adjacent to flexible pavement dimension 'T' is 8" maximum.
10. Usual profile grade line. Refer to typical sections and plan-profile sheets for exact locations.
11. One-half inch expansion joint material shall be provided where curb or curb and gutter is adjacent to sidewalk or riprap.
12. When horizontal permissible construction joints are used, the longitudinal pavement steel shall be placed in accordance with pavement details shown elsewhere in the plans. Reinforcing steel for curb section shall then conform to that required for concrete curb.
13. Bar B placement as needed (typically at four ft. C-C) to support curb reinforcing steel during concrete placement.



BAR B

BAR C

Texas Department of Transportation

Design Division Standard

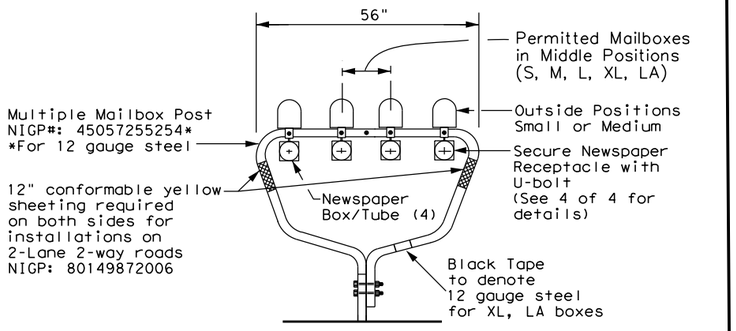
CONCRETE CURB AND CURB AND GUTTER

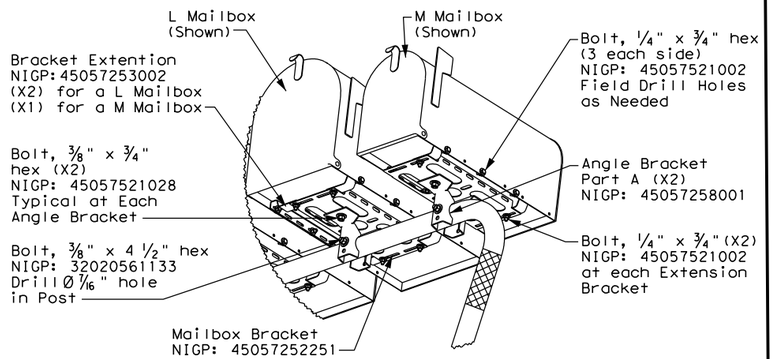
CCCG-22

FILE: cccg21.dgn	DN: TXDOT	CK: AN	DW: CS	CK: KM
© TxDOT: JUNE 2022	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		190

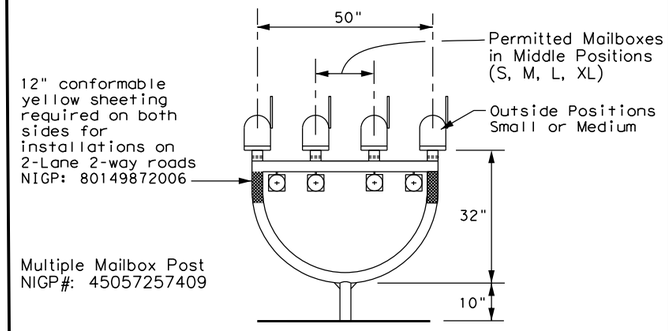
DATE: 6/4/2024 6:42:11 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5852-14-5 YKM_SW14_MBOX_DTL(1).dgn

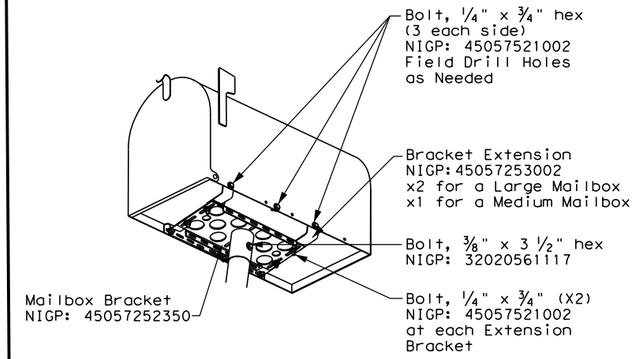
TYPE 1 - MULTIPLE





TYPE 4 - MULTIPLE





MAILBOX SIZES

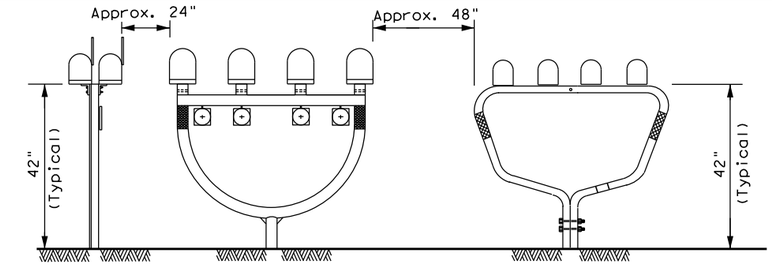
MAILBOX SIZE	TYPICAL DIMENSIONS			MAX **
	LENGTH	WIDTH	HEIGHT	WEIGHT
SMALL	19 1/2"	6"	7"	6 LBS
MEDIUM	22 1/2" *	8" *	11 1/2" *	8 LBS
LARGE	23 1/2"	11 1/2"	13 1/2"	11 LBS
EXTRA LARGE	18"	14"	12"	13 LBS
LOCKABLE	18"	11 1/2"	15"	23 LBS

* See Note 1.
** Excluding Molded Plastic on 4 X 4 Post

GENERAL NOTES:

1. Dimensions shown (length, width, and height) are typical, not maximums. However, anytime a medium size mailbox is mounted on a single/double mount or on the outside position on a multi mount, the dimensions shown are maximums.
2. Mailboxes shall be made of light weight sheet metal or light weight plastic. Heavy steel, cast iron or decorative mailboxes shall not be used on the state highway system.

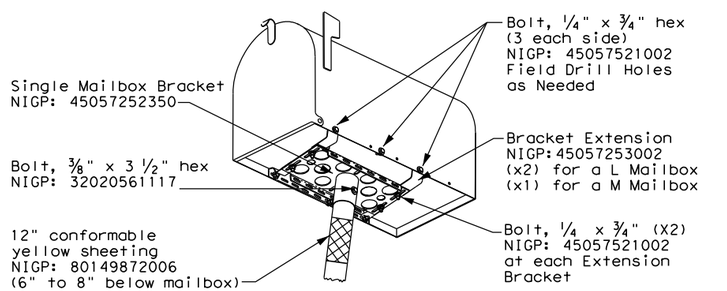
TYPICAL INSTALLATION MEASUREMENTS

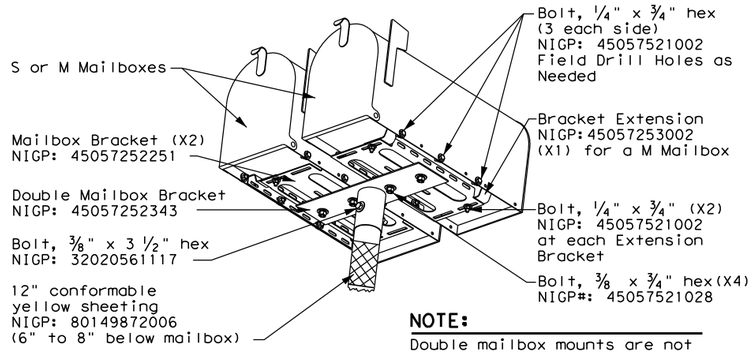


NOTE:

Mailbox installations in sidewalk areas shall be in accordance with the latest TxDOT Design Standard sheets PED-Pedestrian Facilities Curb Ramps.

TYPE 2 and 4 - SINGLE/DOUBLE

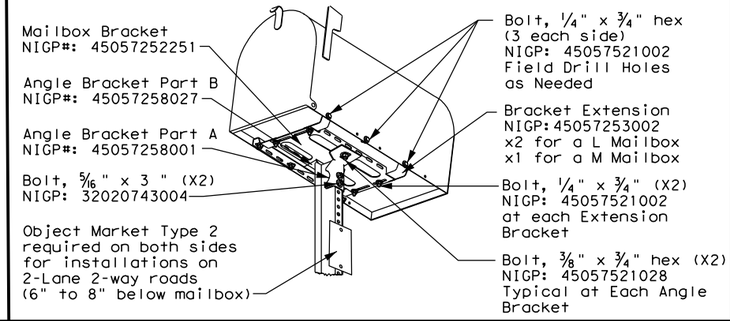


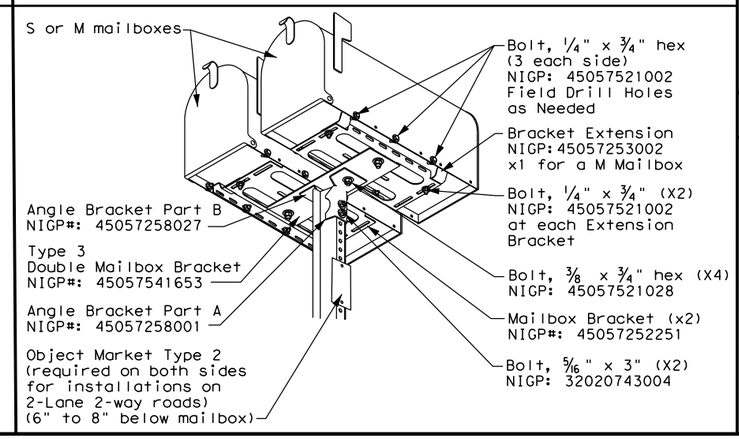


NOTE:

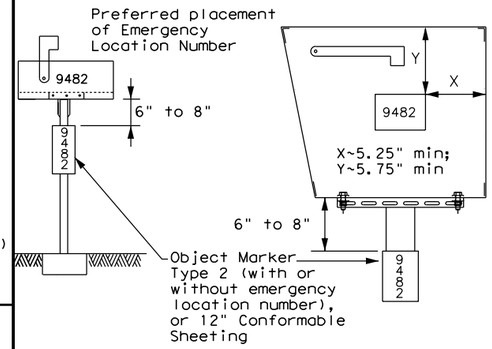
Double mailbox mounts are not allowed with a type 4 multiple mailbox installation

TYPE 3 - SINGLE/DOUBLE





PLACEMENT OF EMERGENCY LOCATION NUMBER

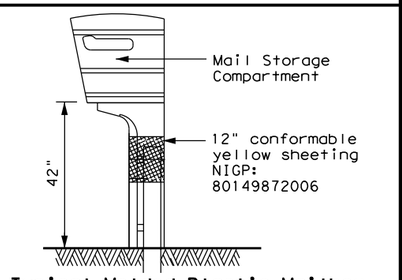


NOTES:

1. Location numbers are provided by homeowner. Minimum size 1" height.
2. Location number is typically placed on the mailbox in a contrasting color.
3. Black numbers may be placed on the Type 2 object marker if the numbers cannot be placed on the mailbox.
4. Alternatively, a green or blue plate with white numbers attached may be mounted below the object marker. Other contrasting color configuration, as approved, may be used.
5. See 3 of 4 for Foundation details.
6. See 4 of 4 for Hardware details.

SHEET 1 OF 4

TYPE 5



Typical Molded Plastic Mailbox

Texas Department of Transportation — Maintenance Division Standard

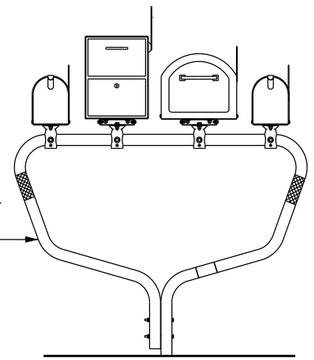
MAILBOX MOUNTING AND ASSEMBLY

MB(1)-21

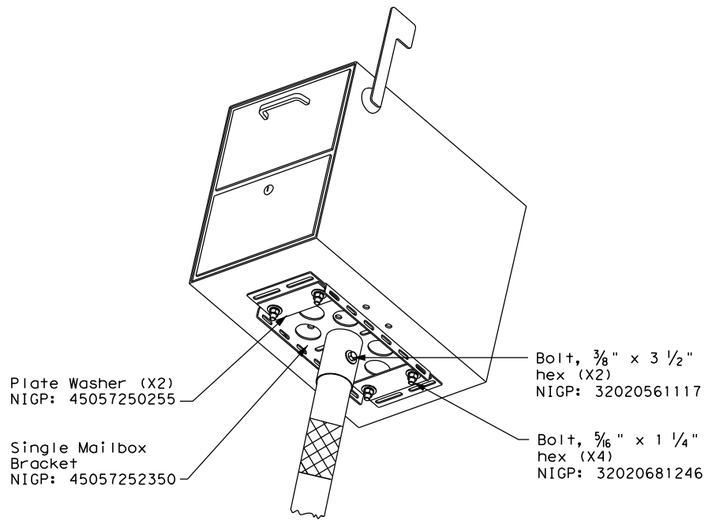
FILE: MB-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT March 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS 2/2005 11/2009 4/2015 6/2005 1/2011 11/2006 7/2014	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		191

DATE: 6/4/2024 6:42:11 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5852-14-45 YKM-SPDEWLK14 RS-MB(2)(1).dgn

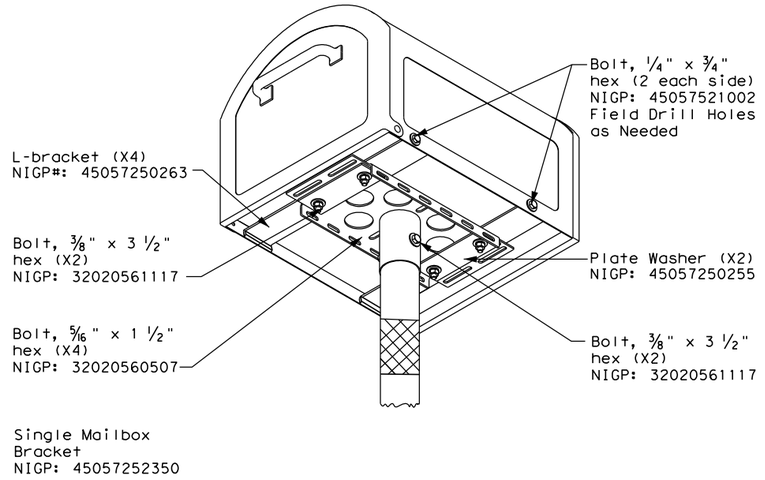
TYPE 1- MULTI LOCKABLE AND XL MAILBOX



TYPE 2/4 - SINGLE LOCKABLE MAILBOX

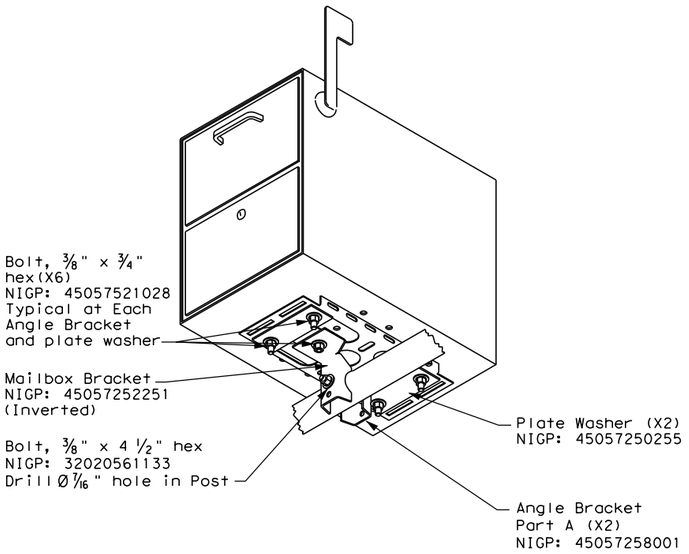


TYPE 2/4 - SINGLE XL MAILBOX

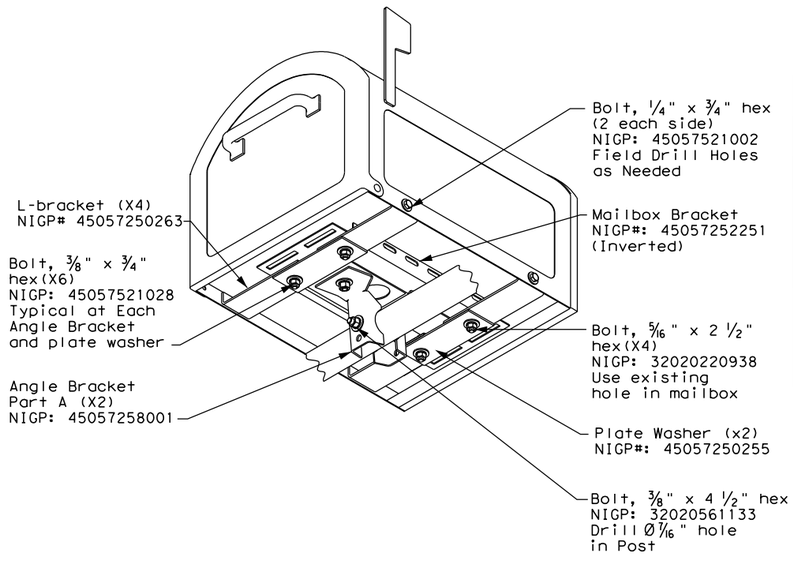


NOTE:
Follow same configuration when mounting an XL mailbox on a Type 4 multi post.

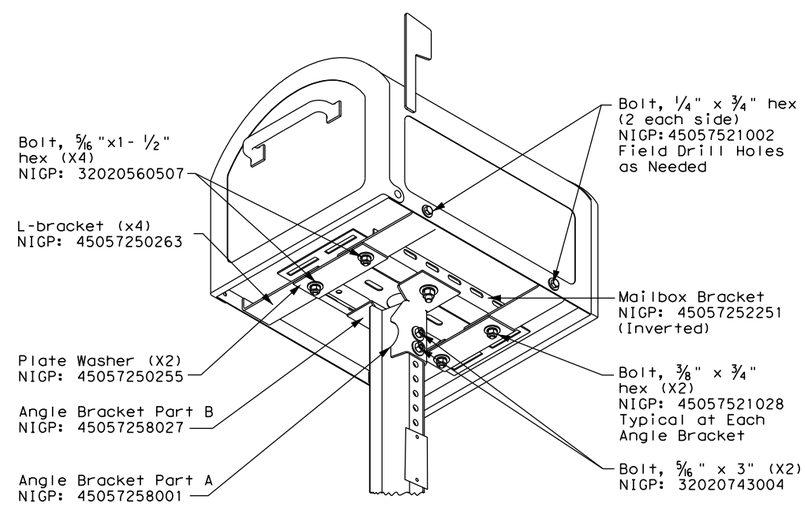
TYPE 1 MULTI – LOCKABLE ARCHITECTURAL (LA)



TYPE 1 MULTI – XL MAILBOX



TYPE 3 - XL MAILBOX MOUNTING



Texas Department of Transportation | Maintenance Division Standard

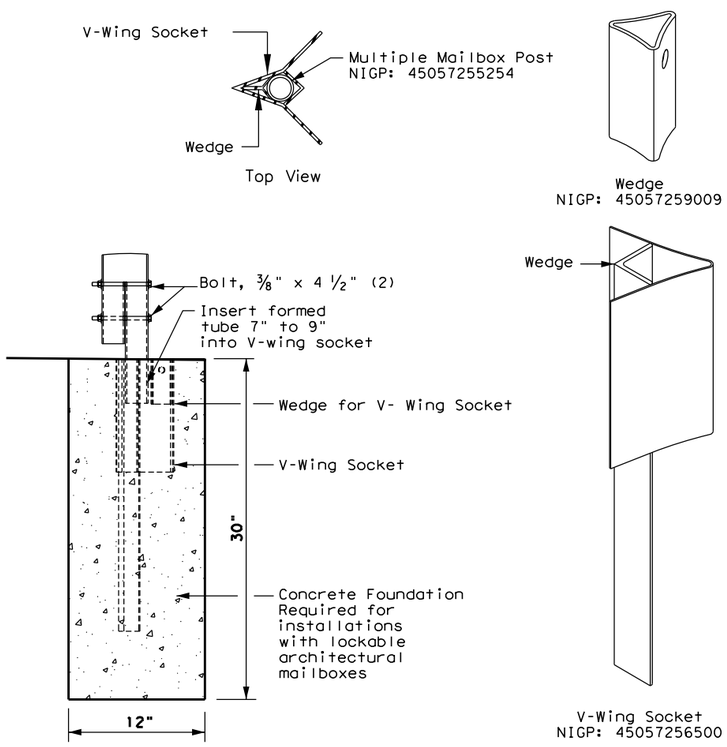
XL AND LOCKABLE ARCHITECTURAL MAILBOX ASSEMBLY

MB(2)-21

FILE: MB-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT March 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS 2/2005 11/2009 4/2015 6/2005 1/2011 11/2006 7/2014	0026	04	048, ETC.	US 90,ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		192

DATE: 6/4/2024 6:42:11 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5892114\YKM\Sheets\MB-21.dgn

TYPE 1 - SUPPORT/FOUNDATION
Thin Wall Tube w/ V-LOC Anchorage



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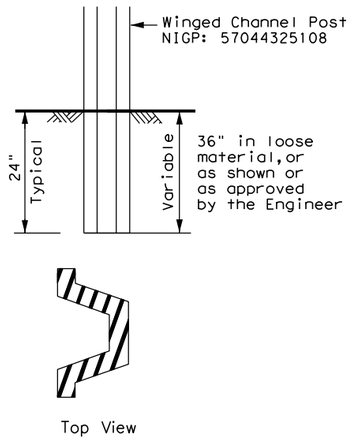
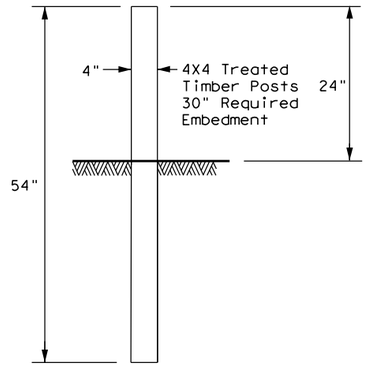
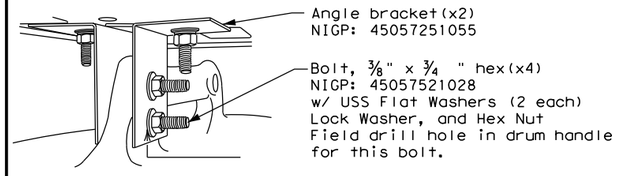


NOTES:
1. Attach Object Marker(OM) facing direction of traffic.
2. OM will also be required on opposite side if installed on a 2-Lane, 2-Way roadway.

TYPE 5 - SUPPORT/FOUNDATION



TYPE 6 - TEMPORARY MAILBOX SUPPORT

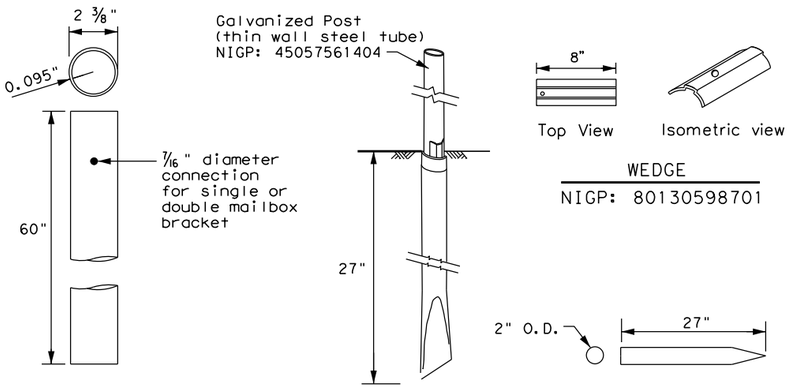


Plastic Drum NIGP: 55093383655
Rubber Collar NIGP: 55093387102

NOTES:
1. Place on approved plastic drum as shown in the Compliant Work Zone Traffic Control Devices (CWZTCD).
2. Existing attachment hardware shall be used unless damaged. Damaged hardware shall be replaced.

GENERAL NOTES:
1. Erect post plumb or vertical.
2. When galvanized part is required galvanize in accordance with Item 445.
3. Use a concrete footing as shown or when directed. Concrete footing will be required when soils do not hold the support/foundations in a stable condition, only on Type 1, Type 2, and Type 4

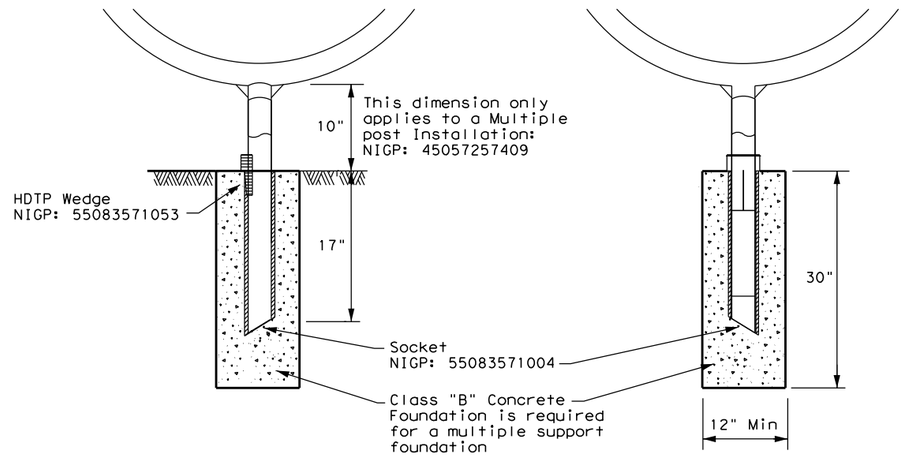
TYPE 2 - SUPPORT/FOUNDATION
Thin Wall Steel Tube w/Wedge Anchor System



MAILBOX POST

WEDGE ANCHOR
NIGP: 80130238407

TYPE 4 - SUPPORT/FOUNDATION
Whitecoated steel post NIGP: 45057561107
Multiple post NIGP: 45057257409
Recycled Rubber post (RR) NIGP: 45057561057



SHEET 3 OF 4

Texas Department of Transportation | Maintenance Division Standard

MAILBOX SUPPORT AND FOUNDATION

MB(3)-21

FILE: MB-21.dgn	DN:	CK:	DW:	CK:
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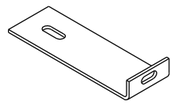
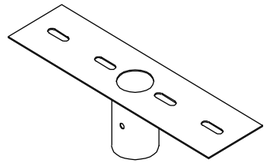
REVISIONS 2/2005 11/2009 4/2015 6/2005 1/2011 11/2006 7/2014	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		193

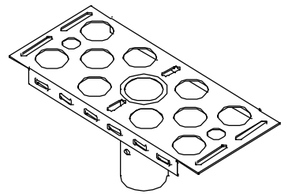
TYPE	TYPE 1	TYPE 2	TYPE 3	TYPE 4			TYPE 5	TYPE 6
Configuration	Multiple	Single or Double	Single or Double	Single	Double	Multiple	Single	Single
Mailbox Size NIGP #	Outside Position: S or M Inside Position: S, M, L, XL, or LA	Single: S, M, L, XL, or LA Double: SS, SM, MM	Single: S, M, L, or XL Double: SS, SM, MM	S, M, L, XL, or LA	SS, SM, or MM	Outside Position: S or M Inside Position: S, M, L, or XL	Molded Plastic	S, or M
Mailbox Post NIGP #	45057255254 (Galvanized Multiple)	45057561404 (Thin Walled Gavanize)	57044325108 (Wing Channel Post)	45057561107 (Thin walled white powder coated) 45057561057 (Recycled Rubber Post: S or M only)	45057561107 (Thin Walled White Powder Coated)	45057257409 (White Powder Coated Multiple)	4x4 Timber	Construction Barrel
Post and Mailbox Hardware NIGP #	45057259009 (Wedge) 45057256500 (V-Wing Socket) 45057253002 (Bracket Extension) 45057252251 (Mailbox Bracket) 45057258001 (Part A Angle Bracket x2) 45057250255 (Plate Washer for XL/LA x2) 45057250263 (L-Bracket for XL x4)	80130598701 (Wedge) 80130238407 (Wedge Anchor) 45057253002 (Bracket Extension) 45057252343 (Double MB Bracket) 45057252350 (S. Mailbox Bracket) 45057252251 (Mailbox Bracket) 45057250255 (Plate Washer for XL/LA x2) 45057250263 (L-Bracket forXL x4)	45057541653 (Type 3 Double Mailbox Bracket) 45057252251 (Mailbox Bracket) 45057253002 (Bracket Extension) 45057258001 (Part A Angle Bracket) 45057258027 (Part B Angle Bracket) 45057250255 (Plate Washer for XL x2) 45057250263 (L-Bracket for XL x4)	55083571053 (Wedge) 55083571004 (Socket) 45057252350 (Single Mailbox Bracket) 45057253002 (Bracket Extension) 45057250255 (Plate Washer for XL/LA x2) 45057250263 (L-Bracket for XL x4)	55083571053 (Wedge) 55083571004 (Socket) 45057253002 (Bracket Extension) 45057252343 (Double Mount Bracket) 45057252251 (Mailbox Bracket x2)	55083571053 (Wedge) 55083571004 (Socket) 45057253002 (Bracket Extension) 45057252350 (Single Mount Bracket) 45057250255 (Plate Washer for XL x2) 45057250263 (L-Bracket for XL x4)	None	45057251055 Angle Bracket (x2)
Foundation Used	Class B Concrete (Required for LA Mailboxes)	Class B Concrete (Required for LA Mailboxes)	None	Class B Concrete (not used with recycled rubber post, required for LA Mailboxes)	Class B Concrete (not required)	Class B Concrete	None	None



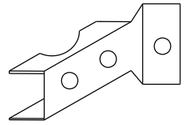
NIGP: 45057250263
L-Bracket x4 for
XL sized mailboxes



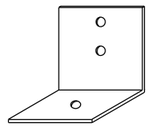
NIGP: 45057252343
Double Mailbox Bracket
For Type 2 and Type 4
double mount



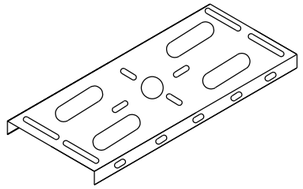
NIGP: 45057252350
Single Mailbox Bracket
For Type 2 single and for
Type 4 single and multi mount



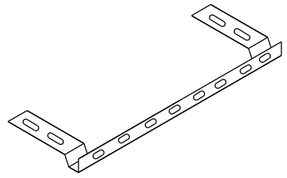
NIGP: 45057258001
Part "A" Angle Bracket
For Type 1 multi (2 per mailbox)
and Type 3 single and double



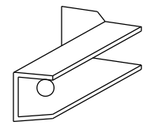
NIGP: 45057251055
Type 6 Angle Bracket
(2 per mailbox)



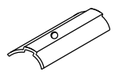
NIGP: 45057252251
Mailbox Bracket
For Type 1 multi and
any double mount (use 2)



NIGP: 45057253002
Bracket Extension
Use 1 for a medium Mailbox
Use 2 for a Large Mailbox

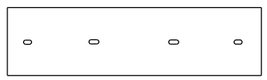


NIGP: 45057258027
Part "B" Angle Bracket
For Type 3 single
and double

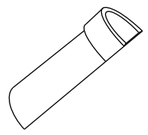


NIGP: 80130598701
Wedge for Type 2

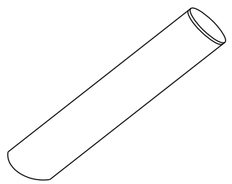
NIGP: 45057250255
Plate Washer for Architecural
and XL Mailboxes



NIGP: 45057541653
Type 3 double mailbox bracket

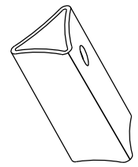


NIGP: 55083571053
Type 4 Mailbox Wedge

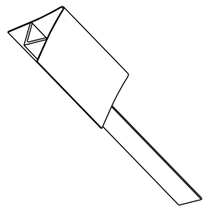


NIGP: 55083571004
Type 4 Mailbox Socket

NIGP: 80130238407
Type 2 Wedge Anchor



NIGP: 45057259009
Wedge for Type 1 V-wing Socket



NIGP: 45057256500
V-wing Socket for
Type 1 Foundation

NIGP #	OBJECT MARKERS AND CONFORMABLE SHEETING
55008311759	Type 2 OM 4"x4" (3 Needed) for Type 3 Wing Channel Post
55008312906	Type 2 OM 6"x12" (1 needed) for Type 3 Wing Channel Post
80149872006	12" Conformable Reflective Yellow Sheeting for Flexible Posts

NOTES:

1. Type 2 object marker in accordance with Traffic Engineering Standard Delineators & Object Markers.
2. A light weight receptacle for newspaper delivery can be attached to mailbox posts if the receptacle does not touch the mailbox, present a hazard to traffic or delivery of the mail, extend beyond the front of the mailbox, or display advertising, except the publication title.

BID CODES FOR CONTRACTS

MB-(X) ASSM TY (XXX) (X)

Type of Mailbox
- S = Single
- D = Double
- M = Multiple
- MP = Molded Plastic

Type of Post
- WC = Winged Channel Post
- RR = Recycled Rubber
- TWW = Thin Walled White Tubing
- TWG = Thin Walled Galvanized Tubing
- TIM = Timber

Type of Foundation
- Ty 1 = V-Loc
- Ty 2 = Wedge Anchor Steel System
- Ty 3 = Winged Channel post
- Ty 4 = Wedge Anchor Plastic System
- Ty 5 = 4 X 4 Post

Texas Department of Transportation

Maintenance Division Standard

NIGP PARTS LIST AND COMPATIBILITY

MB(4)-21

FILE: MB-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT March 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS 2/2005 11/2009 4/2015 6/2005 1/2011 11/2006 7/2014	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		194

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DATE: 6/4/2024
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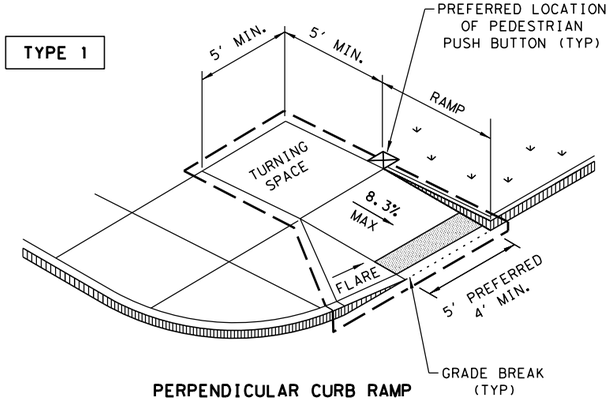
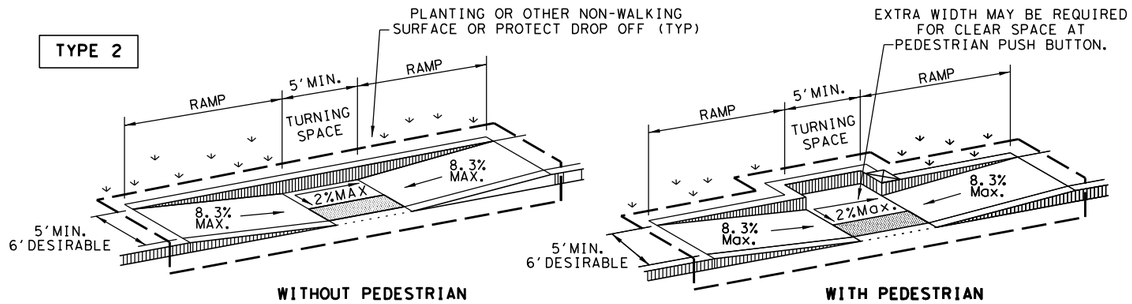
TYPE 1



PERPENDICULAR CURB RAMP

TYPE 2

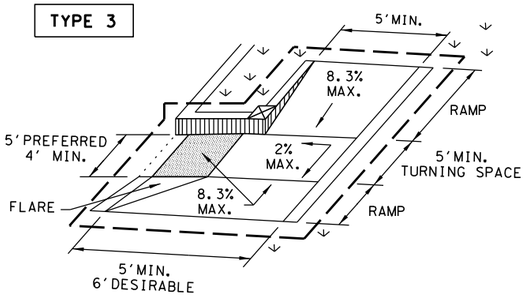


WITHOUT PEDESTRIAN PUSH BUTTON

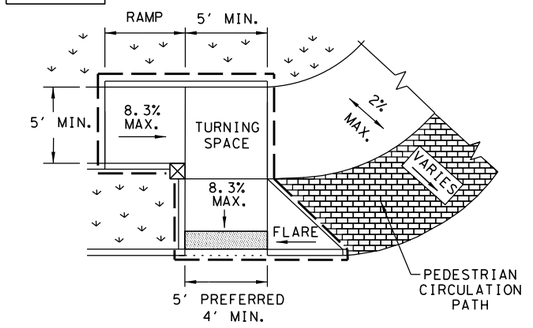
WITH PEDESTRIAN PUSH BUTTON

PARALLEL CURB RAMP

TYPE 3

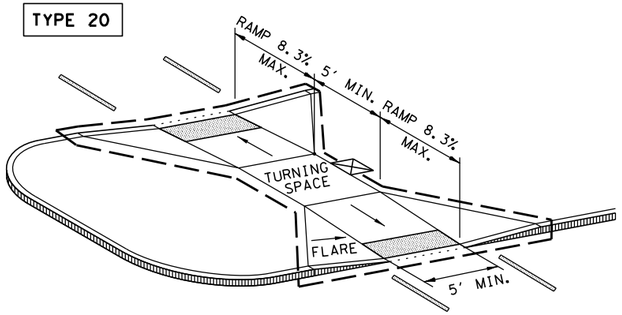


TYPE 6



COMBINATION CURB RAMPS

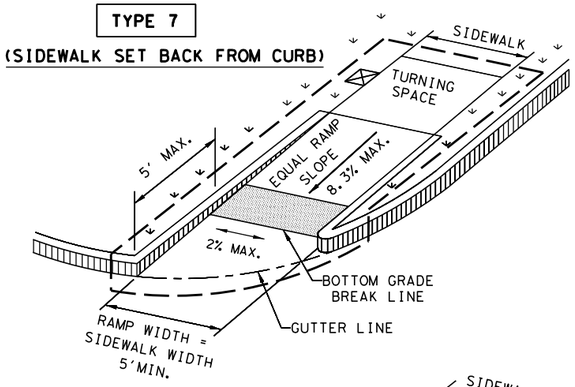
TYPE 20



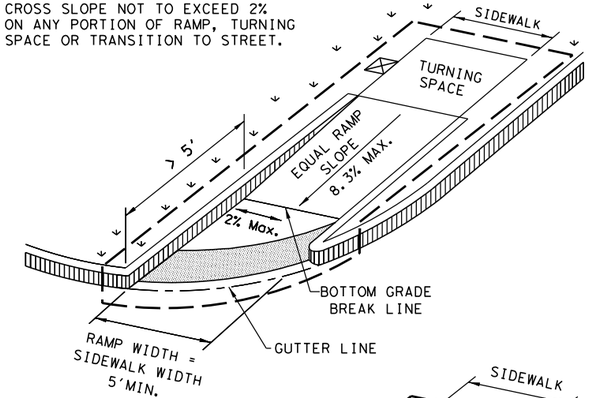
CURB RAMPS AT MEDIAN ISLANDS

TYPE 7

(SIDEWALK SET BACK FROM CURB)

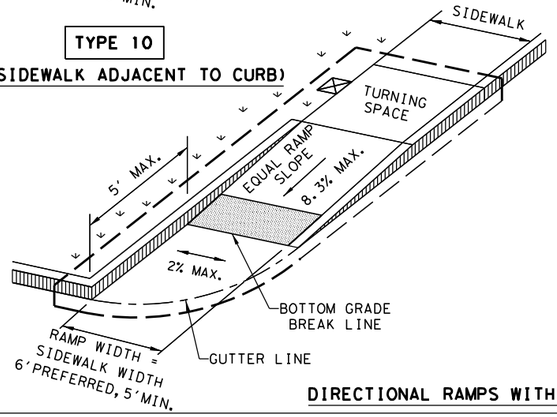


CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, TURNING SPACE OR TRANSITION TO STREET.

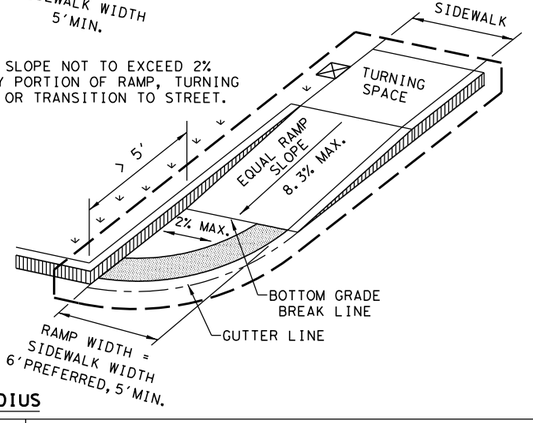


TYPE 10

(SIDEWALK ADJACENT TO CURB)

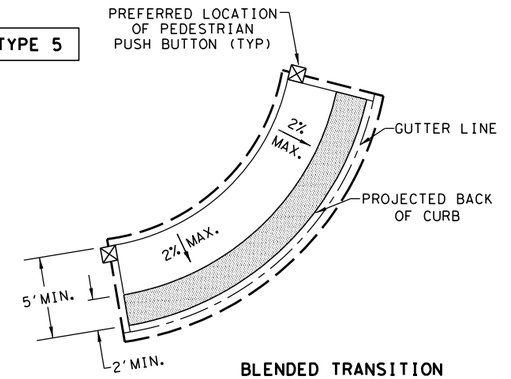


CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, TURNING SPACE OR TRANSITION TO STREET.



DIRECTIONAL RAMPS WITHIN RADIUS

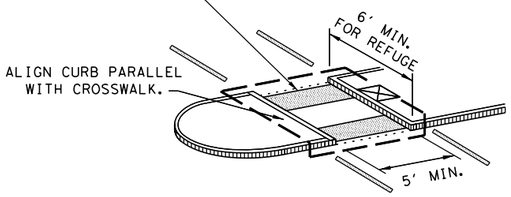
TYPE 5



BLENDED TRANSITION
(FLUSH LANDING)

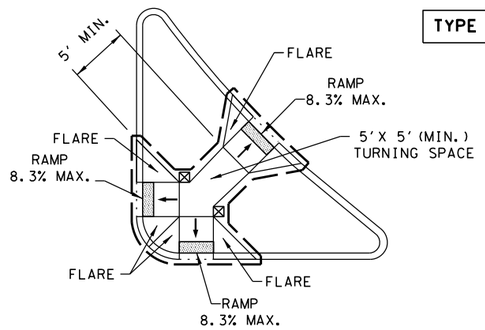
TYPE 21

INSTALL DETECTABLE WARNING SURFACE AT EACH END OF THE CUT-THROUGH RAMP WITH A MINIMUM 2' USUAL SIDEWALK SURFACE BETWEEN. IF MEDIAN IS LESS THAN 6' WIDE, ELIMINATE DETECTABLE WARNING SURFACES.



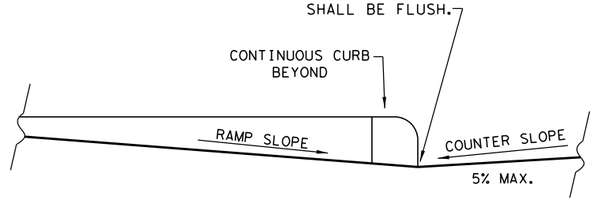
NOTE: CURB DETAILS ARE SHOWN ELSEWHERE IN THE PLANS.

TYPE 22



COMBINATION ISLAND RAMPS

BOTTOM GRADE BREAK OF CURB RAMP WILL NORMALLY BE AT GUTTER LINE. SURFACE SLOPES AT GRADE BREAKS SHALL BE FLUSH.



TYPICAL SECTION OF PERPENDICULAR CURB RAMP AT CONNECTION TO ROADWAY

NOTES / LEGEND:

SEE GENERAL NOTES ON SHEET 2 OF 4 FOR MORE INFORMATION.

DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.

DETECTABLE WARNING SURFACE

DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.

GUTTER LINE

GRADE BREAK

RAMP LIMITS OF PAYMENT

Texas Department of Transportation

Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
REVISED 08, 2005 REVISED 06, 2012 REVISED 01, 2018	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		195

DATE: 6/4/2024
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5832-14 YKM_Sidewalks_Hallettsville_Cuero_etc\03_CADD\01_Shts\03-RDWY\Stds\TXDOT\ped18.dgn

GENERAL NOTES

CURB RAMPS

1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5'x 5' passing areas at intervals not to exceed 200' are required.
5. Turning Spaces shall be 5'x 5' minimum. Cross slope shall be maximum 2%.
6. Clear space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
10. Small channelization islands, which do not provide a minimum 5'x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
12. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps.
13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
15. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
16. Provide a smooth transition where the curb ramps connect to the street.
17. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
18. Existing features that comply with applicalble standards may remain in place unless otherwise shown on the plans.

DETECTABLE WARNING MATERIAL

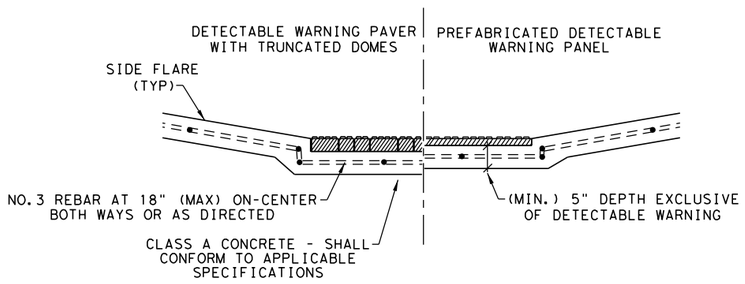
19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
20. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
21. Detectable warning surfaces must be firm, stable and slip resistant.
22. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
23. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius.
24. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

DETECTABLE WARNING PAVERS (IF USED)

25. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
26. Lay full-size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw.

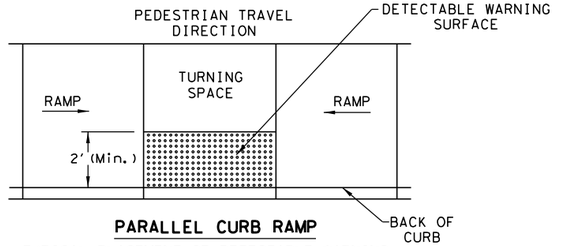
SIDEWALKS

27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in PROWAG section R406.
28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
29. Street grades and cross slopes shall be as shown elsewhere in the plans.
30. Changes in level greater than 1/4 inch are not permitted.
31. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than five percent (5%) must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with PROWAG R409.
32. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
33. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
34. Sidewalk details are shown elsewhere in the plans.

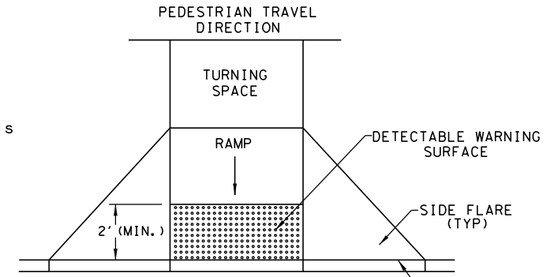


SECTION VIEW DETAIL
CURB RAMP AT DETECTIBLE WARNINGS

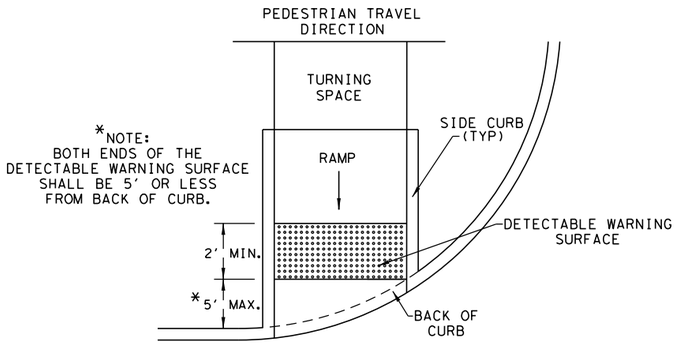
DETECTABLE WARNING SURFACE DETAILS



PARALLEL CURB RAMP
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE.



PERPENDICULAR CURB RAMP
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.



DIRECTIONAL CURB RAMP
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.

Texas Department of Transportation | Design Division Standard

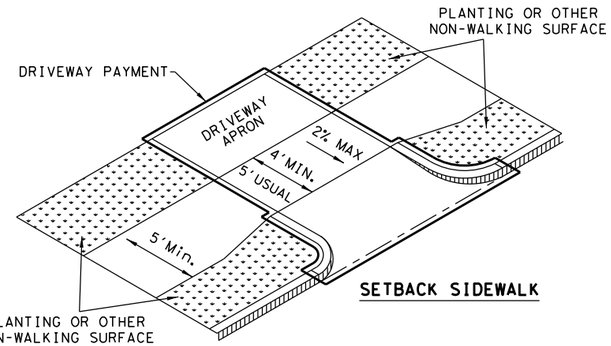
PEDESTRIAN FACILITIES CURB RAMPS

PED-18

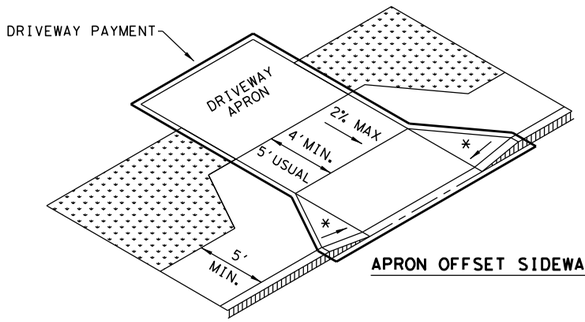
FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
REVISED 08,2005 REVISED 06,2012 REVISED 01,2018	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		196

DATE: 6/4/2024
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5832-14 YKM_Sidewalks_Hallettsville_Cuero_etc\03_CADD\01_Shts\03-RDWY\Stds\TXDOT\ped18.dgn

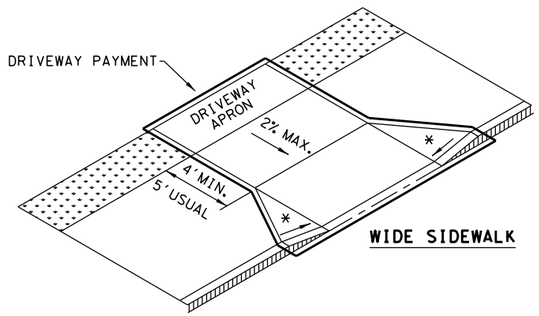
SIDEWALK TREATMENT AT DRIVEWAYS



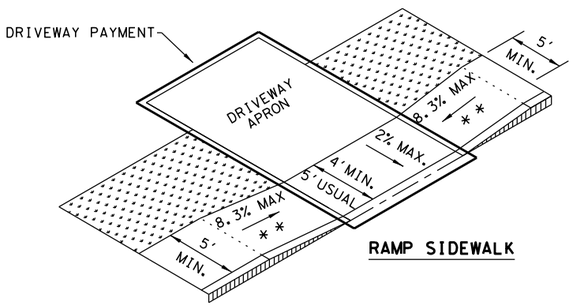
SETBACK SIDEWALK



APRON OFFSET SIDEWALK



WIDE SIDEWALK

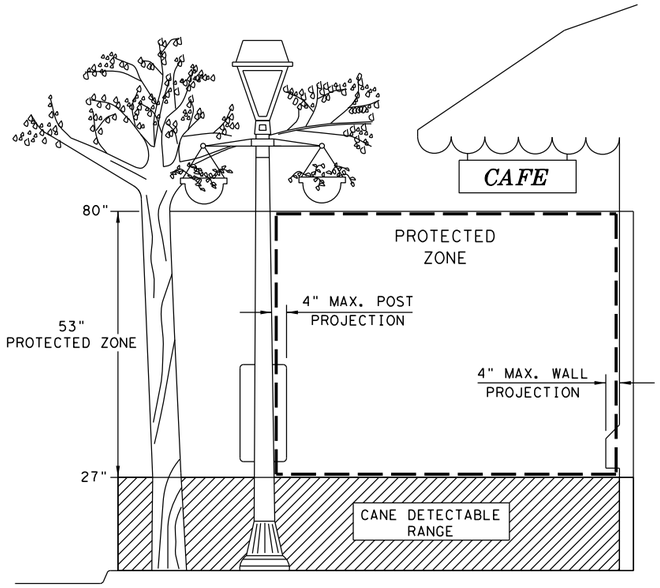


RAMP SIDEWALK

NOTES:

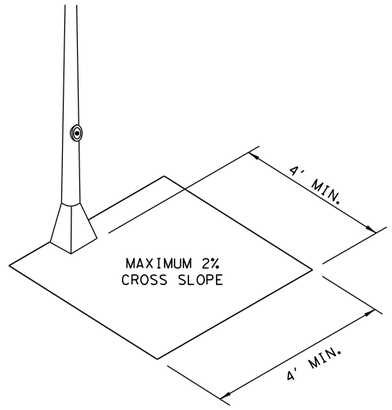
* WHERE DRIVEWAYS CROSS THE PEDESTRIAN ROUTE, SIDES SHALL BE FLARED AT 10% MAX SLOPE.

* * IF CURB HEIGHT IS GREATER THAN 6 INCHES, USE GRADE LESS THAN OR EQUAL TO 5%. HANDRAIL AND DETECTABLE WARNING ARE NOT REQUIRED.

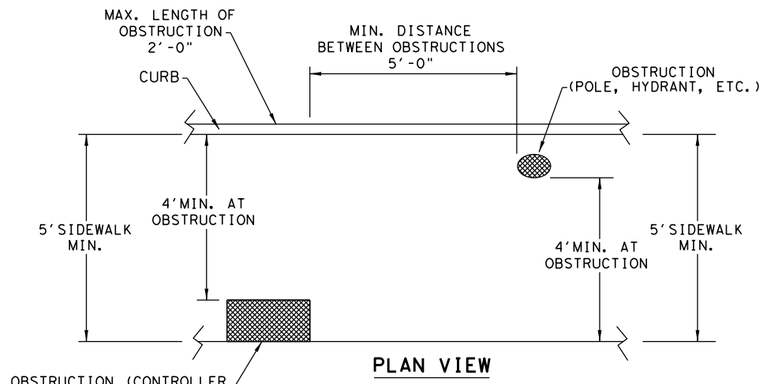


PROTECTED ZONE

NOTE: IN PEDESTRIAN CIRCULATION AREA, MAXIMUM 4" PROJECTION FOR POST OR WALL MOUNTED OBJECTS BETWEEN 27" AND 80" ABOVE THE SURFACE.



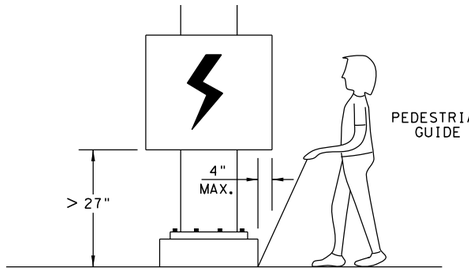
CLEAR SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON



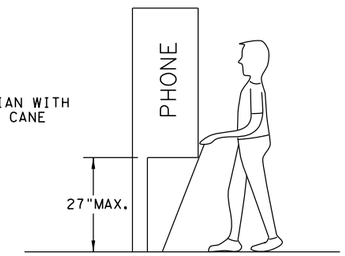
PLAN VIEW

PLACEMENT OF STREET FIXTURES

NOTE: ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' X 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.



WHEN AN OBSTRUCTION OF A HEIGHT GREATER THAN 27" FROM THE SURFACE WOULD CREATE A PROTRUSION OF MORE THAN 4" INTO THE PEDESTRIAN CIRCULATION AREA, CONSTRUCT ADDITIONAL CURB OR FOUNDATION AT THE BOTTOM TO PROVIDE A MAXIMUM 4" OVERHANG.



PROTRUDING OBJECTS OF A HEIGHT ≤ 27" ARE DETECTABLE BY CANE AND DO NOT REQUIRE ADDITIONAL TREATMENT.

DETECTION BARRIER FOR VERTICAL CLEARANCE < 80"

Texas Department of Transportation

Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

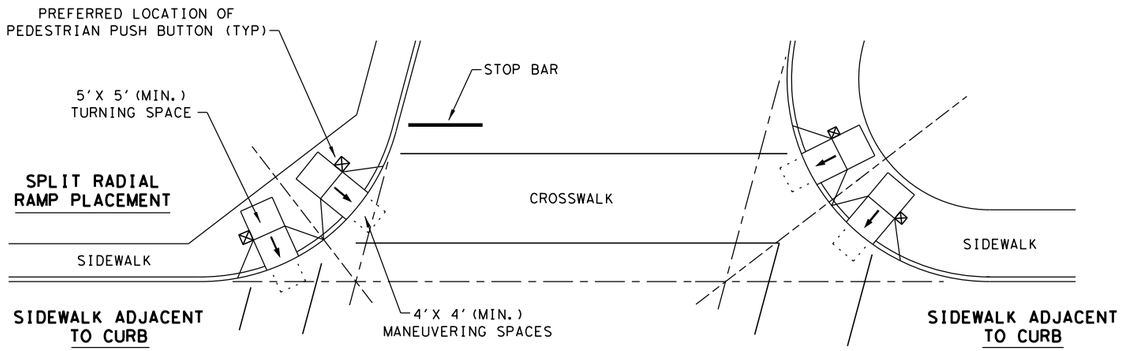
PED-18

FILE: ped18	DN: TxDOT		DW: VP	CK: KM	CK: PK & JG	
© TxDOT: MARCH, 2002	CONT	SECT	JOB		HIGHWAY	
REVISIONS	0026	04	048, ETC.		US 90, ETC.	
REVISED 08,2005 REVISED 06,2012 REVISED 01,2018	DIST	COUNTY			SHEET NO.	
	YKM	COLORADO, ETC.			197	

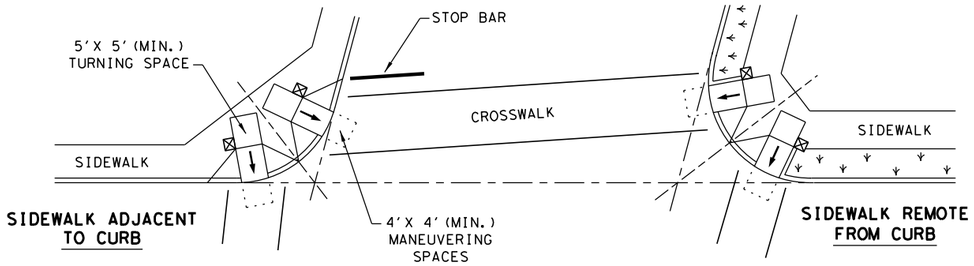
DATE: 6/4/2024
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5832-14 YKM_Sidewalks_Hallettsville_Cuero_etc\03_CADD\01_Shts\03-RDWY\Stds\TXDOT\ped18.dgn

TYPICAL CROSSING LAYOUTS

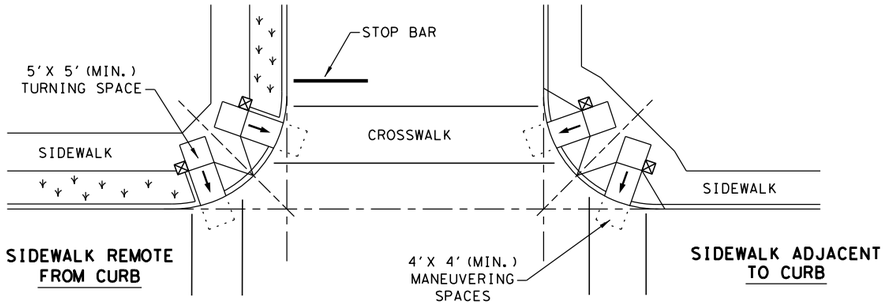
SEE SHEET 1 OF 4 FOR DETAILS AND DIMENSIONS



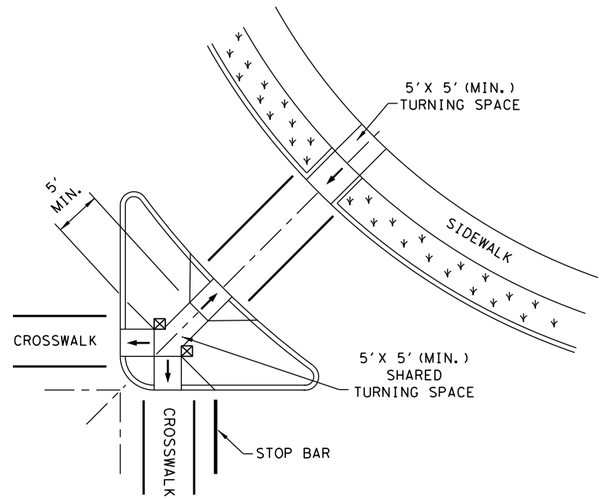
SKEWED INTERSECTION WITH "LARGE" RADIUS



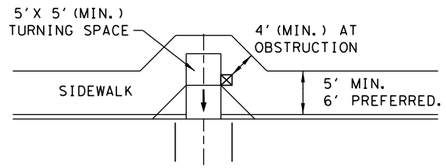
SKEWED INTERSECTION WITH "SMALL" RADIUS



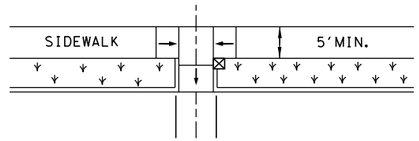
NORMAL INTERSECTION WITH "SMALL" RADIUS



AT INTERSECTION
W/FREE RIGHT TURN & ISLAND



SIDEWALK ADJACENT TO CURB



SIDEWALK REMOTE FROM CURB

MID-BLOCK PLACEMENT
PERPENDICULAR RAMPS

LEGEND:

SHOWS DOWNWARD SLOPE. →

DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON (IF APPLICABLE). ☒

DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.

Texas Department of Transportation

Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
REVISED 08, 2005 REVISED 06, 2012 REVISED 01, 2018	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		198

DATE: 6/4/2024
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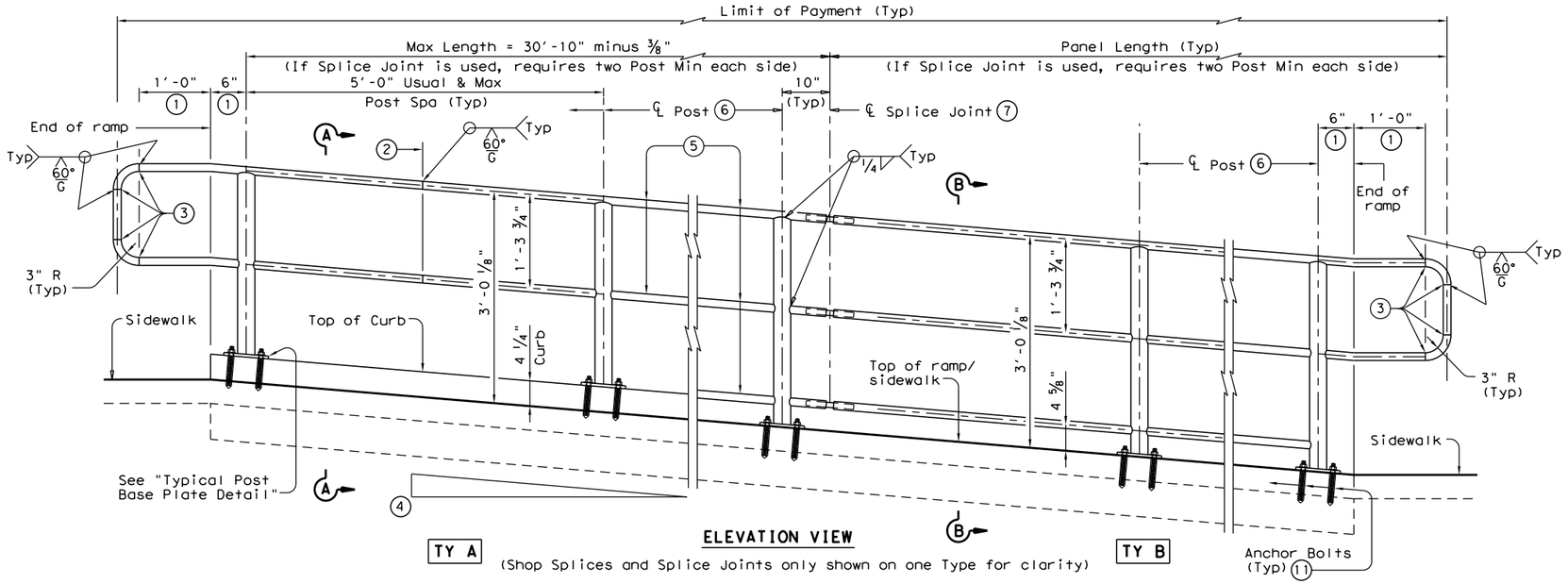
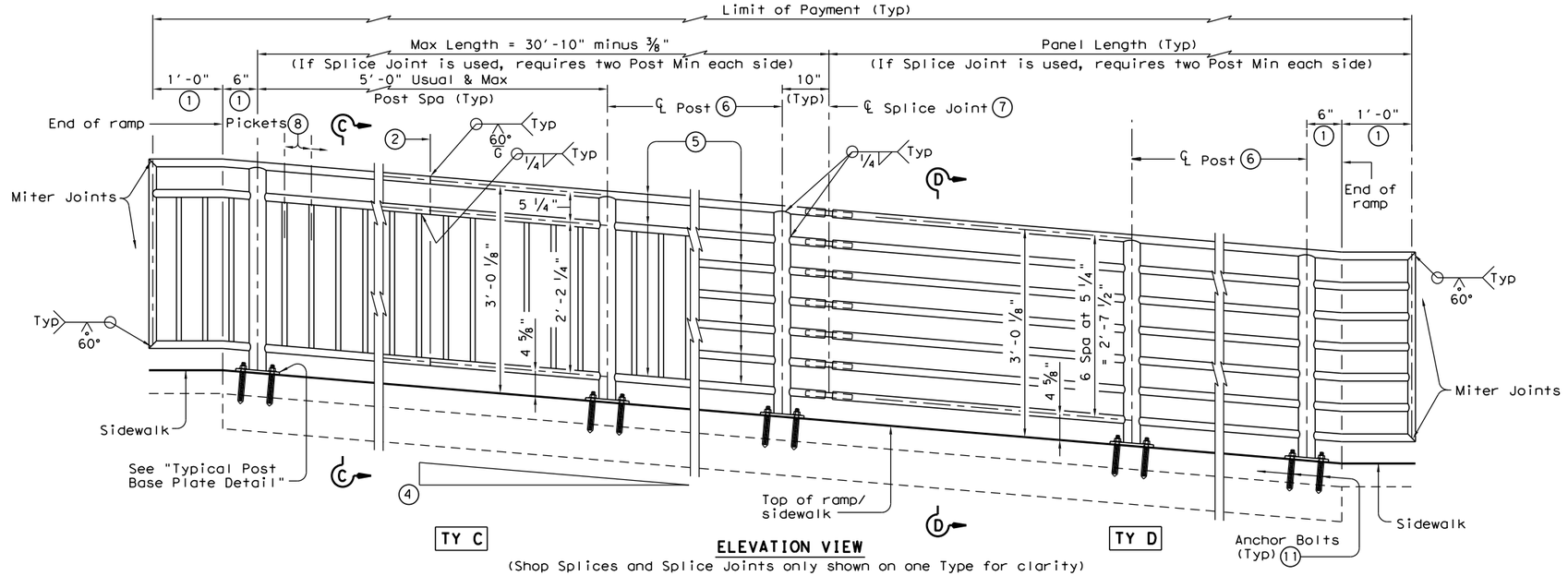


TY A

ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

TY B



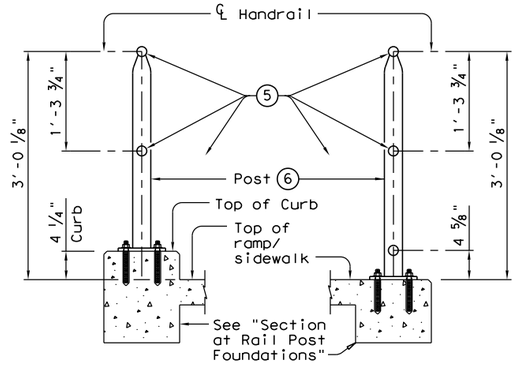
TY C

ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

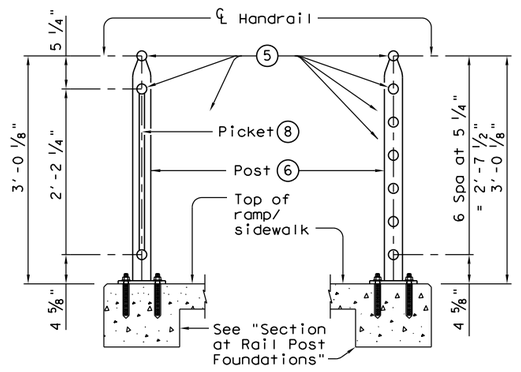
TY D

RECOMMENDED USAGE ⑨⑩	
Dropoff Height/ Condition	Recommended Rail Options
< 30" dropoff	TY A, TY B, TY C, or TY D
≥ 30" dropoff, or along Bike Path	TY E or TY F



SECTION A-A
(Showing Handrail **TY A**)

SECTION B-B
(Showing Handrail **TY B**)



SECTION C-C
(Showing Handrail **TY C**)

SECTION D-D
(Showing Handrail **TY D**)

1. Parallel to ground.
2. One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
3. Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
4. See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
5. 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.
6. 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
7. See "Handrail Fabrication Details" for Splice Joints.
8. ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.
9. When needed for accessibility (grade > 5 percent) or as needed for pedestrian safety.
10. Not to be used on bridges.
11. See "General Notes" for anchor bolt information.

SHEET 1 OF 3

Texas Department of Transportation

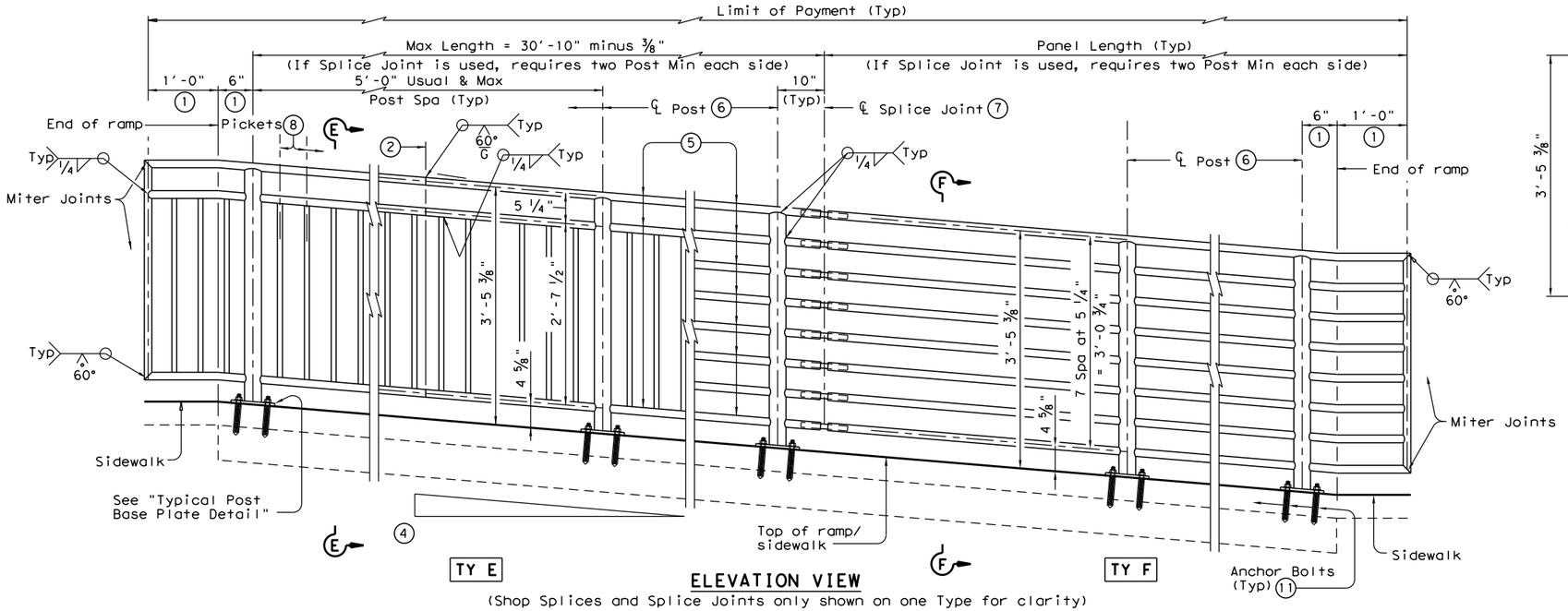
Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

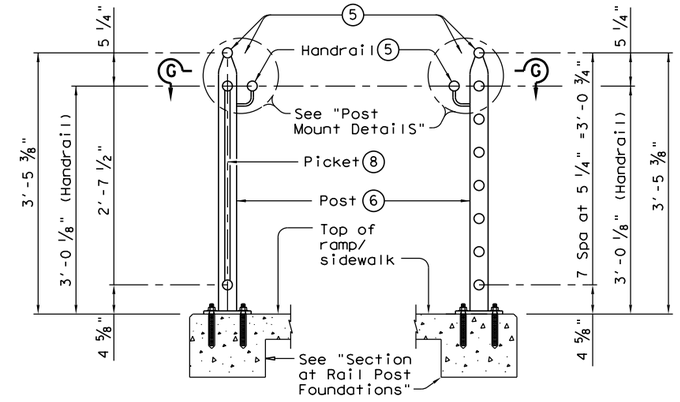
FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT Decmeber 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		199

DATE: 6/4/2024
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5832-14 YKM_Sidewalks_Hallettsville_Cuero_etc\03_CADD\01_Shts\03-RDWY\Stds\TXDOT\prd13.dgn



ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

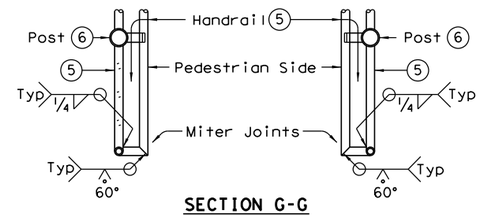


SECTION E-E

(Showing Handrail **TY E**)

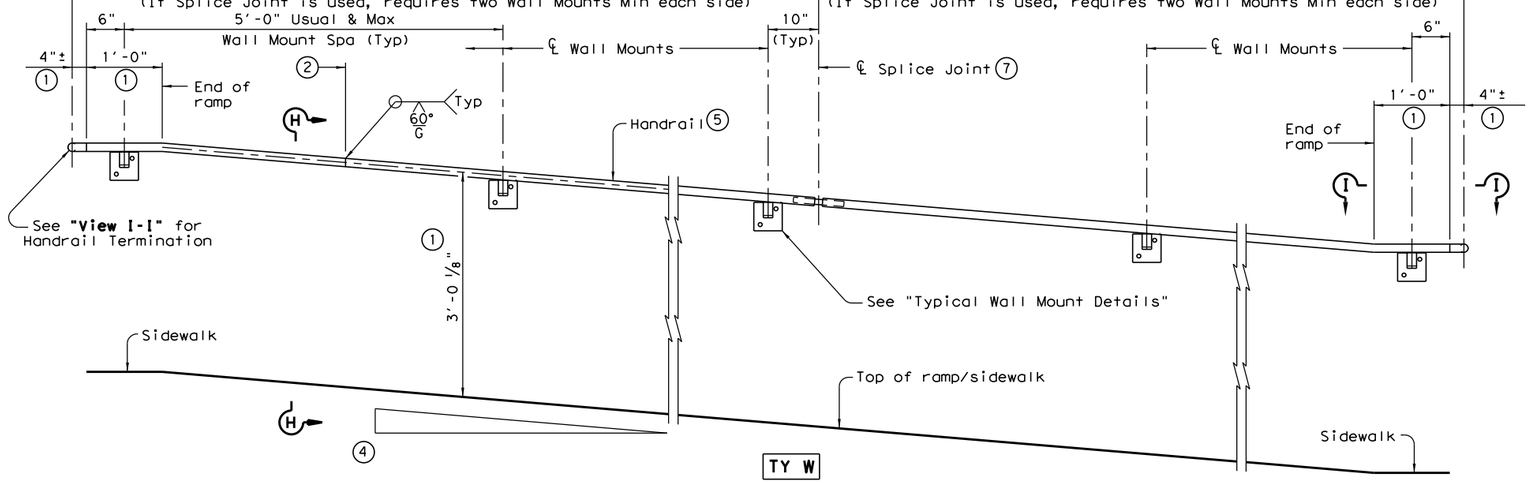
SECTION F-F

(Showing Handrail **TY F**)

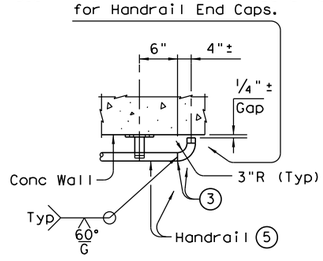


SECTION G-G

(Showing Handrail Termination)

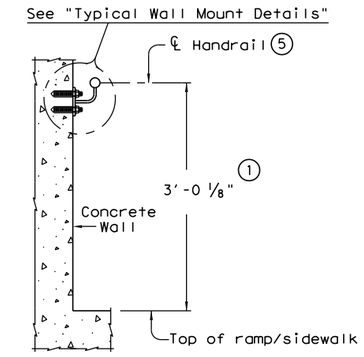


ELEVATION VIEW



VIEW I-I

(Showing Handrail Termination)



SECTION H-H

(Showing Handrail **TY W**)

1. Parallel to ground.
2. One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
3. Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
4. See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
5. 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.
6. 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
7. See "Handrail Fabrication Details" for Splice Joints.
8. ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.
11. See "General Notes" for anchor bolt information.

SHEET 2 OF 3

Texas Department of Transportation

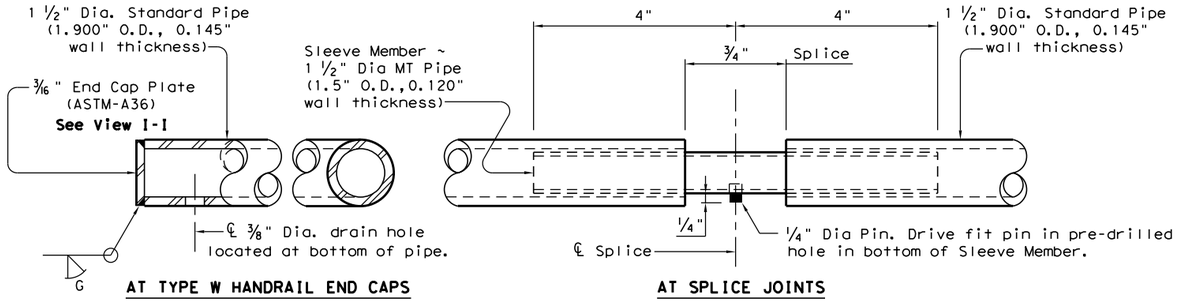
Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		200

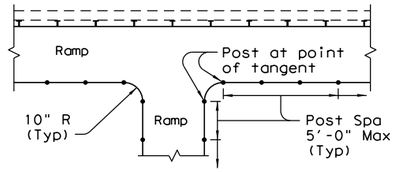
DATE: 6/4/2024
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5832-14 YKM_Sidewalks_Hallettsville_Cuero_etc\03_CADD\01_Shts\03-RDWY\Stds\TXDOT\prd13.dgn



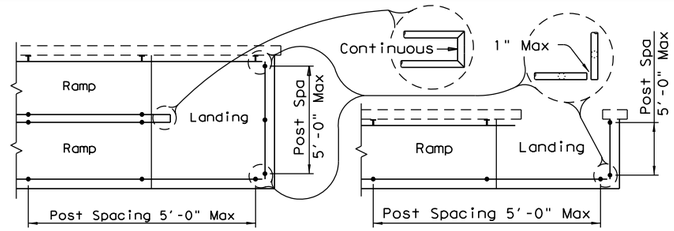
AT TYPE W HANDRAIL END CAPS

AT SPLICE JOINTS

HANDRAIL FABRICATION DETAILS



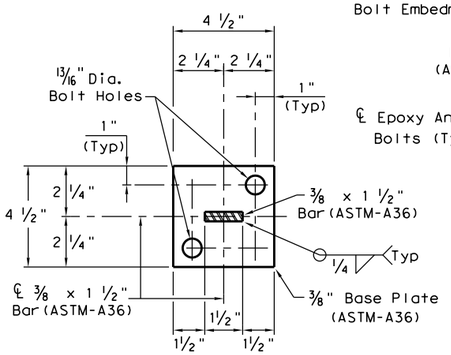
RAMP INTERSECTION



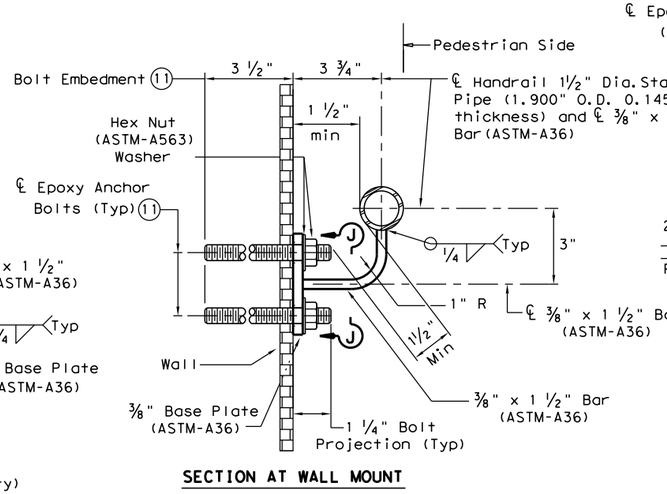
MULTI-LEVEL RAMP

SINGLE-LEVEL RAMP

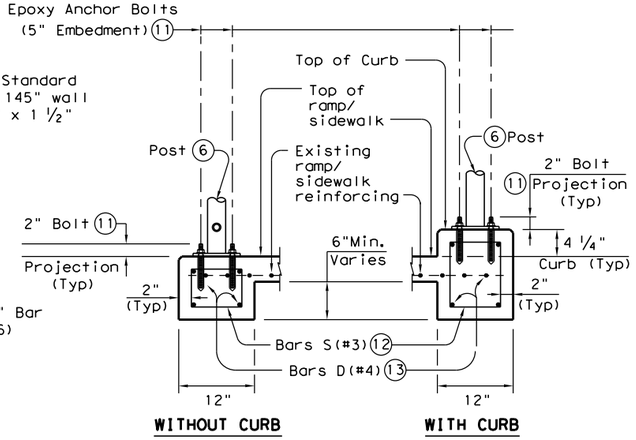
PLAN SHOWING RAIL AT RAMP CONDITIONS



SECTION J-J
(Anchor Bolts not shown for clarity)



SECTION AT WALL MOUNT



WITHOUT CURB

WITH CURB

SECTION AT RAIL POST FOUNDATIONS

TYPICAL WALL MOUNT DETAILS

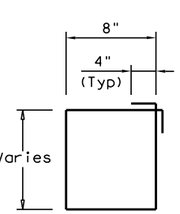
(5) 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp/sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.

(6) 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). Plumb all posts. See "Post Mount Detail" for crimping and trimming post to fit the diamenter of top rail. Provide holes as needed in post for galvanizing drainage and venting.

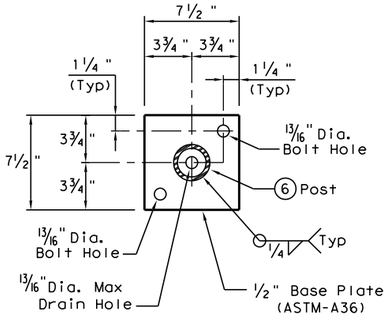
(11) See "General Notes" for anchor bolt information.

(12) Bars S(#3) spaced at 12" Max (Spaced 3" from outside edge of overall length of Ramp/Sidewalk).

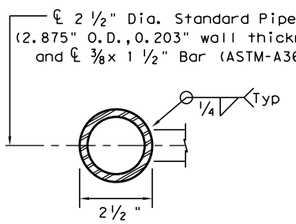
(13) Provide 1 ½" end cover to Bars D(#4) from outside edge of overall length of Ramp/Sidewalk.



BARS S (#3)

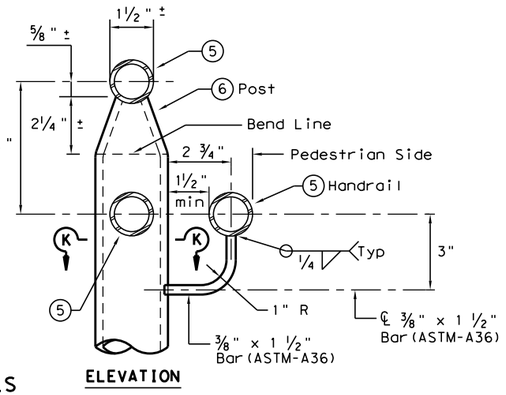


TYPICAL POST BASE PLATE DETAIL



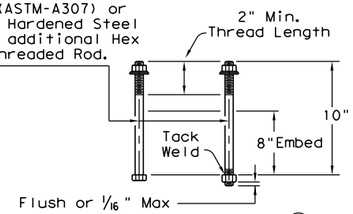
SECTION K-K

POST MOUNT DETAILS



ELEVATION

℄ 5/8" Dia. Hex Head Anchor Bolt (ASTM-A307) or Threaded Rod (ASTM-A36) with one Hardened Steel Washer placed under Hex Nut. One additional Hex Nut will be furnished for each Threaded Rod.



CAST-IN-PLACE ANCHOR BOLT OPTIONS (11)
(Used for Post Base Plate only)

GENERAL NOTES

Designed according to ADAAG, Texas Accessibility Standards, Uniform Building Code, and AASHTO LRFD Specifications.

Handrail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

Pipe will conform to ASTM-A53 Grade B or A500 Grade B. Steel plates and steel bars will conform to ASTM-A36. Mechanical tubing (MT) will conform to ASTM A513 Grade 1015 or higher. Galvanize all steel components except reinforcing steel unless noted otherwise.

Concrete for foundations will be in accordance with Item 531 "Sidewalks". All reinforcing steel must be Grade 60. Bar laps, where required, will be as follows: Uncoated ~ #4 = 1'-5" Epoxy coated ~ #4 = 2'-1"

When the plans require painted steel, follow the requirements for painting galvanized steel in Item 446, "Cleaning and Painting Steel". Sleeve Members will receive galvanization and only get field painted after installation unless directed otherwise by Engineer.

Epoxy Anchor bolts for wall mount and post base plate will be 5/8" Dia. ASTM A36 threaded rods with one hex nut and one hardened steel washer at each bolt. 5/8" Dia. threaded rod embedment depth for wall mounts is 3 ½" and embedment depth for post base plate is 5".

Embed threaded rods into concrete with a Type III (Class C) epoxy meeting the requirements of DMS-6100, "Epoxies and Adhesives". Mix and dispense adhesive with the manufacturer's static mixing nozzle/dual cartridge system. Core drill holes (percussion drilling not permitted).

At the contractor's option the post base plate anchor bolts may be cast with the Ramp/Sidewalk (See Cast-in-Place Anchor Bolt Options).

Optional cast-in-place anchor bolts will be 5/8" Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Embedment depth of cast-in-place bolt will be 8" for post base plate.

Handrails and any wall or other surface adjacent to them will be free of any sharp or abrasive elements.

Submit shop drawings to the Engineer unless otherwise noted. For curved handrail applications, fabricate the handrail to the curve if radius is less than 600 ft. Shop drawings are required when rail is fabricated to the curve.

For all handrails, erection drawings will be submitted to the Engineer for approval to ensure proper installation.

Drawings will show handrail mount locations with bolts setting, spacing, ramp slope, and/or splice joint locations, and handrail lengths with identification showing where each handrail goes on the layout.

Payment for concrete sidewalks or curb ramps will be paid for in accordance with Item 531 "Sidewalks".

Payment for all items shown is to be included in unit price bid in accordance with Item 450 "Railing" of the type specified.

All exposed edges will be rounded or chamfered to approximately 1/8" by grinding.

Texas Department of Transportation

Design Division Standard

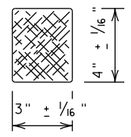
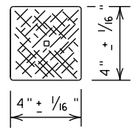
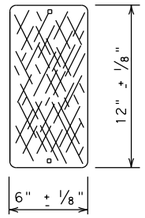
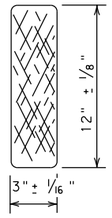
PEDESTRIAN HANDRAIL DETAILS

PRD-13

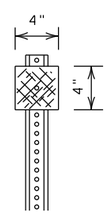
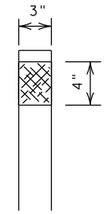
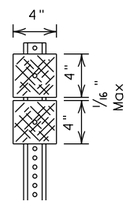
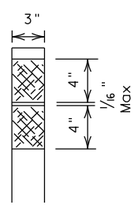
FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
REVISED MAY, 2013 (VP)	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		201

DATE: 6/4/2024 6:42:49 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5852-14-08-SHEETS\dom1-20.dgn

REFLECTOR UNIT SIZES FOR DELINEATORS AND OBJECT MARKERS

	SIZE 1	SIZE 2	SIZE 3	SIZE 4
DEVICE				
SHEETING	Yellow, White or Red Type B or C reflective sheeting			
NOTE	1. Size 1 and 4 - Direct applied reflective sheeting for use on flexible post (flx). 2. Size 2 and 3 - For use on wing channel (wc) post only. Use approved metal, plastic or fiberglass backplate with 17/64" mounting holes.			

DELINEATORS

	SINGLE		DOUBLE	
DEVICE				
	1-Size 2 reflector unit	1-Size 1 reflector unit	2-Size 2 reflector units	2-Size 1 reflector units
SHEETING	Yellow, White or Red Type B or C Reflective Sheeting			
POST TYPE	WC	YFLX, WFLX	WC	YFLX, WFLX
MOUNT TYPE	GND	GND, SRF	GND	GND, SRF

D & OM DESCRIPTIVE CODES

INSTL DEL ASSM (D-XX)SZ X (XXXX)XXX(XX)

NUMBER OF REFLECTORS
- S = Single
- D = Double

COLOR OF REFLECTORS
- W = White
- Y = Yellow
- R = Red

REFLECTOR UNIT SIZE
- 1 or 2

TYPE OF POST OR DELINEATOR
- WC = Wing Channel Post
- YFLX = Yellow Flexible Post
- WFLX = White Flexible Post
- BRF = Barrier Reflector

TYPE OF MOUNT
- GND = Embedded (drivable or set in concrete)
- CTB = Concrete Barrier Mount
- GF1 or GF2 = Guard Fence Attachment
- SRF = Surface Mount

DIRECTION
- If Required
- BI = Bi-Directional
- BR = Bi-Directional with red on back

INSTL OM ASSM (OM-XX) (XXXX)XXX(XX)

TYPE OF OBJECT MARKER
- 1, 2, 3, or 4

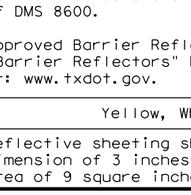
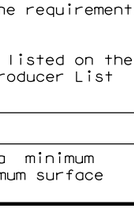
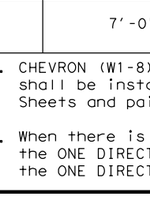
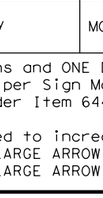
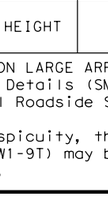
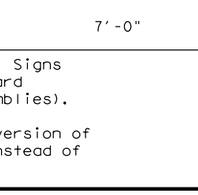
NUMBER OF REFLECTORS OR DIRECTION
- X = 3-Size 2 reflector units (Type 2 only)
- Y = 1-Size 3 reflector unit (Type 2 only)
- Z = 3-Size 1 or 1-Size 4 reflector unit(s)(Type 2 only)
- L = Left Side (Type 3 Object Marker only)
- R = Right Side (Type 3 Object Marker only)
- C = Center (Type 3 Object Marker only)

TYPE OF POST
- WC = Wing Channel Post
- WFLX = White Flexible Post
- TWT = Thin Walled Tubing

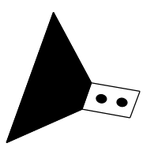
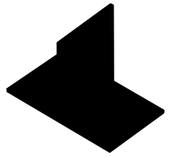
TYPE OF MOUNT
- GND = Embedded (drivable)
- SRF = Surface Mount
- WAS = Wedge Anchor Steel
- WAP = Wedge Anchor Plastic

DIRECTION
- If Required
- BI = Bi-Directional

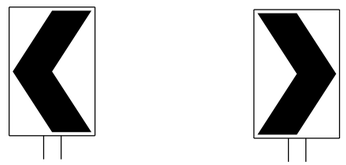
OBJECT MARKERS

	Type 1 (OM-1)	Type 2 (OM-2)			Type 3 (OM-3)			Type 4 (OM-4)
	OM-1	OM-2X	OM-2Y	OM-2Z	OM-3L	OM-3R	OM-3C	OM-4
DEVICE								
		3-Size 2 reflector units	1-Size 3 reflector unit	3-Size 1 reflector units or 1-Size 4 reflector unit				
SHEETING	Yellow-Type B_{FL} or C_{FL} Sheeting	Yellow - Type B or C Sheeting			Alternating acrylic black and retroflective yellow - Type B_{FL} or C_{FL} Sheeting			Red -Type B_{FL} or C_{FL} Sheeting
POST TYPE	TWT	WC	WC	WFLX	TWT			TWT
MOUNT TYPE	WAS, WAP	GND	GND	GND, SRF	WAS, WAP			WAS, WAP

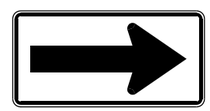
BARRIER REFLECTORS (BRF)

	GF1	GF2	CTB
DEVICE			
	1. Barrier reflectors shall meet the requirements of DMS 8600. 2. Approved Barrier Reflectors are listed on the "Barrier Reflectors" Material Producer List at: www.txdot.gov.		
SHEETING	Yellow, White, Red		
NOTE	1. Reflective sheeting shall have a minimum dimension of 3 inches and minimum surface area of 9 square inches.		

CHEVRONS

DEVICE	 W1-8			
SIZE (W x L)	18"x 24" (Conventional)	24"x 30" (Conventional Oversize)	30"x 36" (Expressway)	36" x 48" (Freeway)
MOUNTING HEIGHT	4'-0" or 7'-0"		7'-0" Only	
NOTE	1. CHEVRON (W1-8) signs and ONE DIRECTION LARGE ARROW (W1-6) Signs shall be installed per Sign Mounting Details (SMD) Standard Sheets and paid under Item 644 (Small Roadside Sign Assemblies). 2. When there is a need to increase conspicuity, the Texas version of the ONE DIRECTION LARGE ARROW sign (W1-9T) may be used instead of the ONE DIRECTION LARGE ARROW (W1-6).			

ONE DIRECTION LARGE ARROW

DEVICE	 W1-6	
SIZE (W x L)	48" x 24" (Conventional)	60" x 30" (Expressway & Freeway)
MOUNTING HEIGHT	7'-0"	

DEPARTMENTAL MATERIAL SPECIFICATIONS	
FLEXIBLE DELINEATOR & OBJECT MARKER POSTS (EMBEDDED & SURFACE MOUNT TYPES)	DMS-4400
SIGN FACE MATERIALS	DMS-8300
DELINEATORS, OBJECT MARKERS AND BARRIER REFLECTORS	DMS-8600

NOTE:

Delineator and object marker substrates and sign substrates shall be 0.080" Aluminum sign blank to conform to ASTM B-209 Alloy 6061-T6 or approved alternative.

Texas Department of Transportation

Traffic Safety Division Standard

DELINEATOR & OBJECT MARKER MATERIAL DESCRIPTION

D & OM(1)-20

FILE: dom1-20.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
©TxDOT August 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
10-09 3-15	DIST	COUNTY		SHEET NO.
4-10 7-20	YKM	COLORADO, ETC.		202

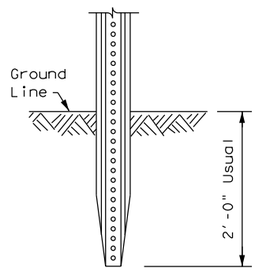
20A

DATE: 6/4/2024 6:42:50 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 1\Sheets\dom2-20.dgn

POST TYPE AND SUPPORT FOUNDATION DETAILS

WING CHANNEL (WC)

GND

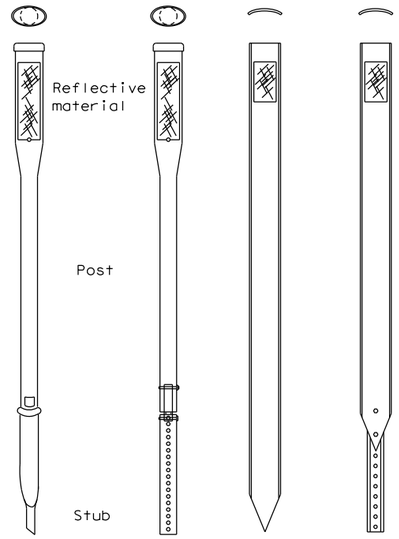


NOTES

1. Embedded Wing Channel (WC) post option may be used for Type 2 Object Markers and Delineators only.
2. 1.12 lbs/ft steel per ASTM A 1011 SS Gr. 50, or ASTM A499.

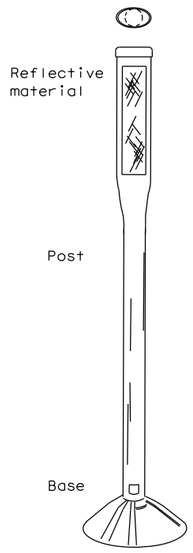
FLEXIBLE POSTS (YFLX, WFLX)

GND



EMBEDDED

SRF



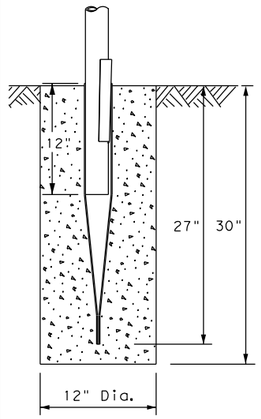
SURFACE MOUNT

NOTES

1. See "Flexible Delineator and Object Marker Posts" Material Producer List for approved devices.
2. Install per manufacturer's recommendations.
3. Post length may vary to meet field conditions.
4. When using yellow delineators with flexible posts to separate opposing direction of travel, such as centerline or median use, the flexible posts shall be yellow.

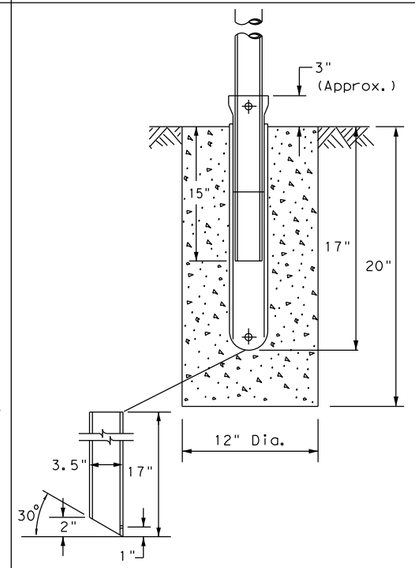
WEDGE ANCHOR SYSTEMS

WAS



STEEL

WAP



PLASTIC

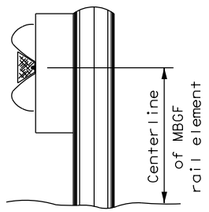
NOTE

1. Install per manufacturer's recommendations.

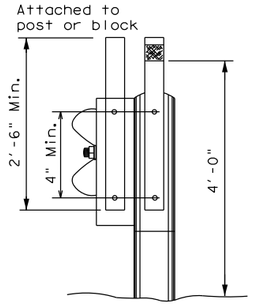
TYPE OF BARRIER MOUNTS

GUARD FENCE ATTACHMENT

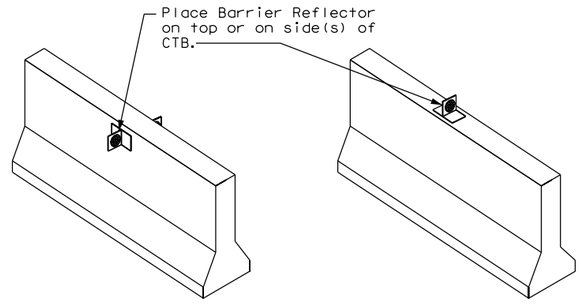
GF1



GF2



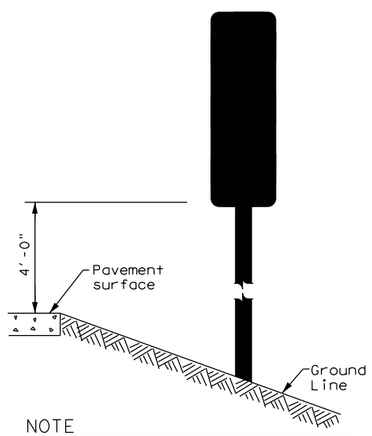
CONCRETE TRAFFIC BARRIER (CTB)



GENERAL NOTES

1. Place delineators on a section of roadway at a consistent distance from the edge of pavement.
2. Where a restriction prevents consistent placement from the pavement edge, place the affected object markers in line with the innermost edge of the obstruction.
3. When Type 2 object markers and delineators are more than 8'-0" from the edge of the pavement, it may not be possible to maintain a height of approximately 4'-0". If this is the case, place the object marker or delineator as close to the desired height as possible.
4. Install all delineators, object markers and barrier reflectors in accordance with the manufacturer's recommendation.
5. Barrier reflectors should be installed a minimum of 18 inches above the edge of the pavement surface.
6. Diagonal stripes on Type 3 object markers shall slope down toward the intended travel lane.

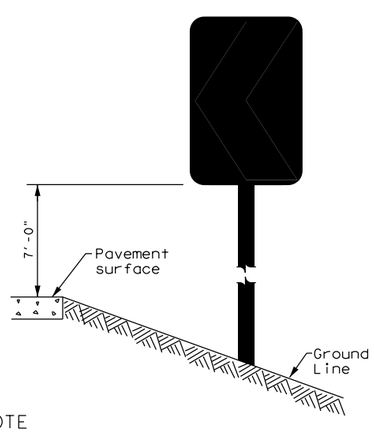
TYPES 1, 3, AND 4 OBJECT MARKERS AND CHEVRONS



NOTE

Mounting at 4 feet to the bottom of the chevron is permitted for chevrons that will not exceed a height of 6'-6" to the top of the chevron (sizes 24" x 30" and smaller)

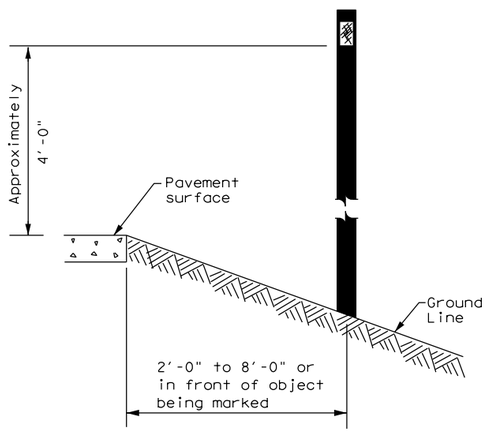
CHEVRONS AND ONE DIRECTION LARGE ARROW SIGN



NOTE

Chevrons 30" x 36" and larger shall be mounted at a height of 7' to the bottom of the chevron. Chevron sign and ONE DIRECTION LARGE ARROW sign (W1-9T) shall be installed per SMD standard sheets and paid under item 644.

DELINEATORS AND TYPE 2 OBJECT MARKERS



See general notes 1, 2 and 3.

Texas Department of Transportation

Traffic Safety Division Standard

DELINEATOR & OBJECT MARKER INSTALLATION

D & OM(2)-20

FILE: dom2-20.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
© TxDOT August 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
10-09 3-15	DIST	COUNTY		SHEET NO.
4-10 7-20	YKM	COLORADO, ETC.		203

20B

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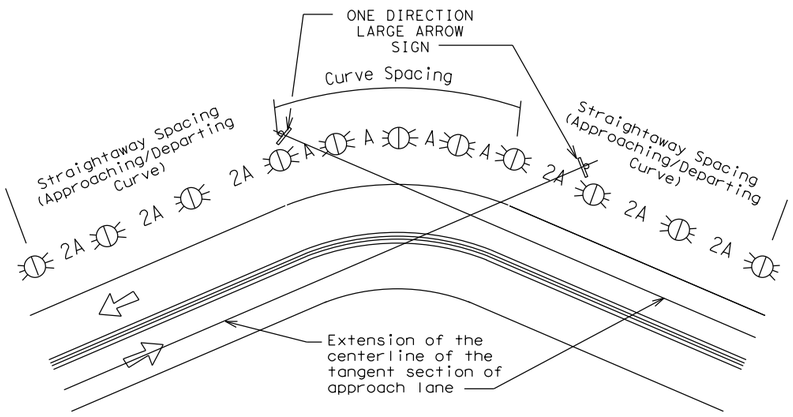
MINIMUM WARNING DEVICES AT CURVES WITH ADVISORY SPEEDS

Amount by which Advisory Speed is less than Posted Speed	Curve Advisory Speed	
	Turn (30 MPH or less)	Curve (35 MPH or more)
5 MPH & 10 MPH	• RPMs	• RPMs
15 MPH & 20 MPH	• RPMs and One Direction Large Arrow sign	• RPMs and Chevrons; or • RPMs and One Direction Large Arrow sign where geometric conditions or roadside obstacles prevent the installation of chevrons.
25 MPH & more	• RPMs and Chevrons; or • RPMs and One Direction Large Arrow sign where geometric conditions or roadside obstacles prevent the installation of chevrons	• RPMs and Chevrons

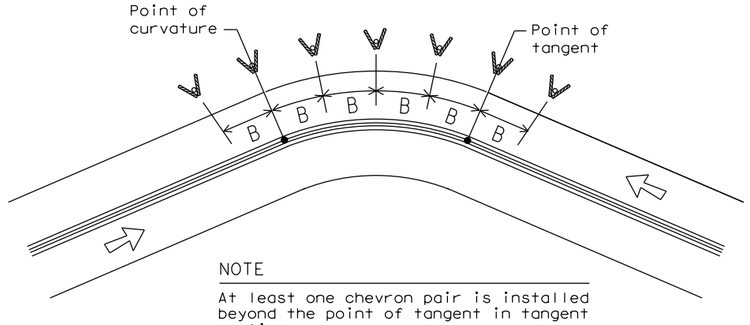
SUGGESTED SPACING FOR DELINEATORS ON HORIZONTAL CURVES



NOTE

ONE DIRECTION LARGE ARROW (W1-6) sign should be located at approximately and perpendicular to the extension of the centerline of the tangent section of approach lane.

SUGGESTED SPACING FOR CHEVRONS ON HORIZONTAL CURVES



NOTE

At least one chevron pair is installed beyond the point of tangent in tangent section.

DELINEATOR AND CHEVRON SPACING

WHEN DEGREE OF CURVE OR RADIUS IS KNOWN

Degree of Curve	FEET			
	Radius of Curve	Spacing in Curve	Spacing in Straightaway	Chevron Spacing in Curve
		A	2A	B
1	5730	225	450	——
2	2865	160	320	——
3	1910	130	260	200
4	1433	110	220	160
5	1146	100	200	160
6	955	90	180	160
7	819	85	170	160
8	716	75	150	160
9	637	75	150	120
10	573	70	140	120
11	521	65	130	120
12	478	60	120	120
13	441	60	120	120
14	409	55	110	80
15	382	55	110	80
16	358	55	110	80
19	302	50	100	80
23	249	40	80	80
29	198	35	70	40
38	151	30	60	40
57	101	20	40	40

Curve delineator approach and departure spacing should include 3 delineators spaced at 2A. This spacing should be used during design preparation or when the degree of curve is known.

DELINEATOR AND CHEVRON SPACING

WHEN DEGREE OF CURVE OR RADIUS IS NOT KNOWN

Advisory Speed (MPH)	Spacing in Curve	Spacing in Straightaway	Chevron Spacing in Curve
	A	2xA	B
65	130	260	200
60	110	220	160
55	100	200	160
50	85	170	160
45	75	150	120
40	70	140	120
35	60	120	120
30	55	110	80
25	50	100	80
20	40	80	80
15	35	70	40

If the degree of curve is not known, delineator spacing may be determined based on the Advisory Speed of the curve. Use the delineator curve spacing for each Advisory Speed (MPH).

DELINEATOR AND OBJECT MARKER APPLICATION AND SPACING

CONDITION	REQUIRED TREATMENT	MINIMUM SPACING
Frwy./Exp. Tangent	RPMs	See PM-series and FPM-series standard sheets
Frwy./Exp. Curve	Single delineators on right side	See delineator spacing table
Frwy/Exp.Ramp	Single delineators on at least one side of ramp (should be on outside of curves) (see Detail 3 on D&OM(4))	100 feet on ramp tangents Use delineator spacing table for ramp curves ("straightway spacing" does not apply to ramp curves)
Acceleration/Deceleration Lane	Double delineators (see Detail 3 on D&OM(4))	100 feet (See Detail 3 on D & OM (4))
Truck Escape Ramp	Single red delineators on both sides	50 feet
Bridge Rail (steel or concrete)and Metal Beam Guard Fence	Bi-Directional Delineators when undivided with one lane each direction Single Delineators when multiple lanes each direction	Equal spacing (100'max) but not less than 3 delineators
Concrete Traffic Barrier (CTB) or Steel Traffic Barrier	Barrier reflectors matching the color of the edge line	Equal spacing 100' max
Cable Barrier	Reflectors matching the color of the edge line	Every 5th cable barrier post (up to 100'max)
Guard Rail Terminus/Impact Head	Divided highway - Object marker on approach end Undivided 2-lane highways - Object marker on approach and departure end	Requires reflective sheeting provided by manufacturer per D & OM (VIA) or a Type 3 Object Marker (OM-3) in front of the terminal end See D & OM (5) and D & OM (6)
Bridges with no Approach Rail	Type 3 Object Marker (OM-3) at end of rail and 3 single delineators approaching rail	See D & OM(5)
Reduced Width Approaches to Bridge Rail	Type 2 and Type 3 Object Markers (OM-3) and 3 single delineators approaching bridge	Requires reflective sheeting provided by manufacturer per D & OM (VIA) or a Type 3 Object Marker (OM-3) in front of the terminal end See D & OM (5)
Culverts without MBGF	Type 2 Object Markers	See Detail 2 on D & OM(4)
Crossovers	Double yellow delineators and RPMs	See Detail 1 on D & OM (4)
Pavement Narrowing (lane merge) on Freeways/Expressway	Single delineators adjacent to affected lane for full length of transition	100 feet

NOTES

1. Unless indicated otherwise, the delineator or barrier reflector color shall conform to the color of the pavement edge line on the side of the road where the delineators or barrier reflectors are placed.
2. Barrier reflectors may be used to replace required delineators.
3. Single red delineators may be mounted on the back side of delineator posts for wrong way driver applications

LEGEND	
	Bi-directional Delineator
	Delineator
	Sign

Texas Department of Transportation

Traffic Safety Division Standard

DELINEATOR & OBJECT MARKER PLACEMENT DETAILS

D & OM(3)-20

FILE: dom3-20.dgn	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
©TxDOT August 2004	CONT	SECT	JOB	HIGHWAY
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3-15 8-15 8-15 7-20	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		204

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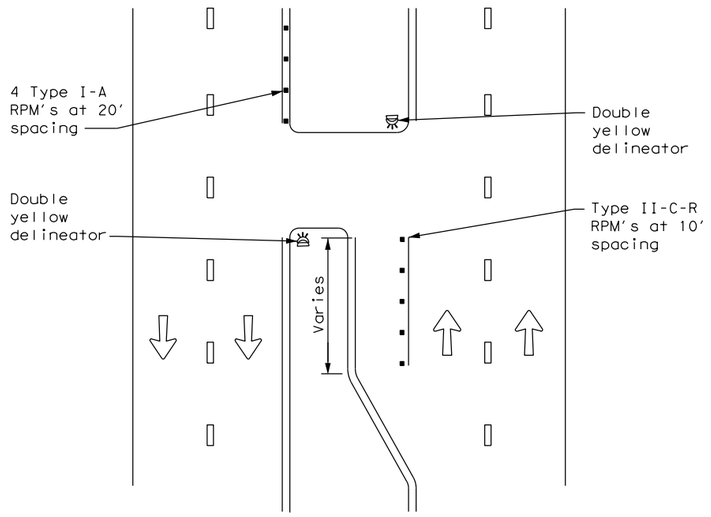
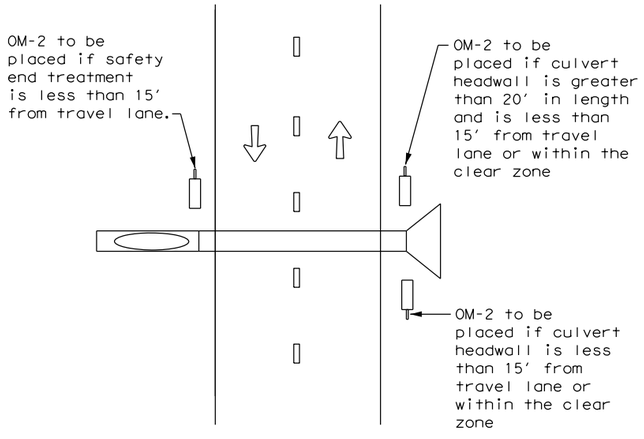
CROSSOVERS



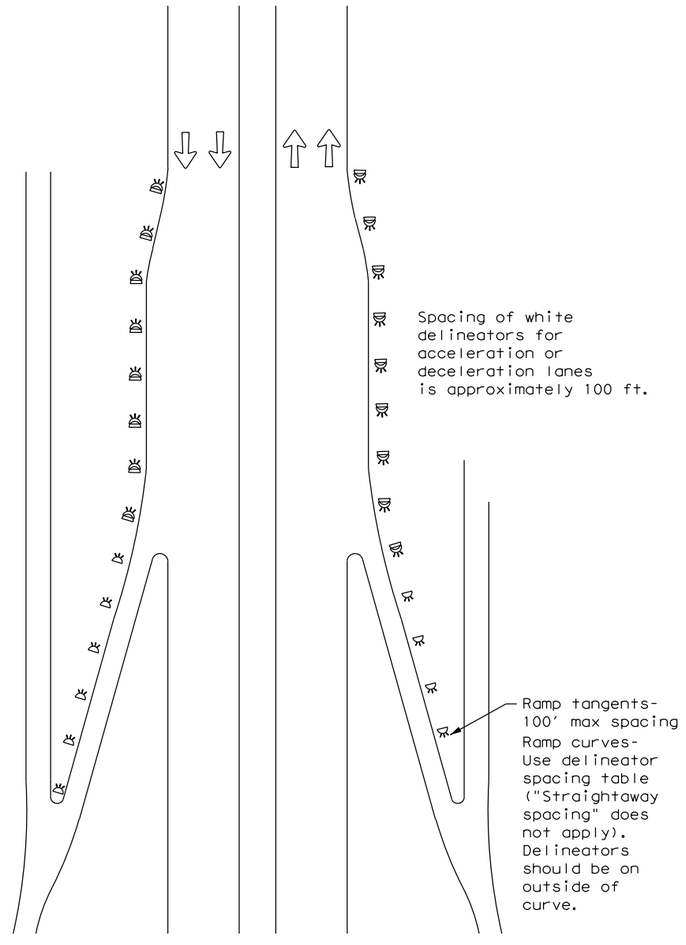
DETAIL 1

FOR CULVERTS WITH MBGF



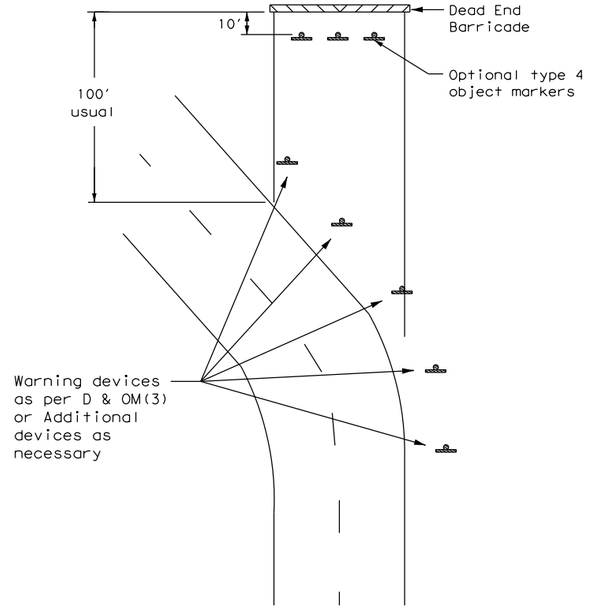
DETAIL 2

FREEWAY DELINEATION FOR RAMPS AND ACCELERATION/DECELERATION LANES



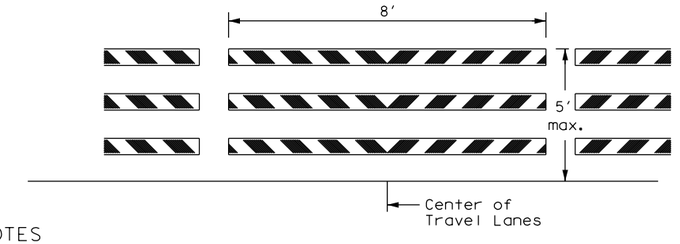
DETAIL 3

TYPICAL APPLICATION OF DEAD END BARRICADE



DETAIL 4

TYPICAL DEAD END BARRICADE INSTALLATION



NOTES

1. Barricade striping shall be red and white reflective sheeting for all permanent road closures.
2. Barricade striping is red and white sloping toward the center of the roadway.
3. Type 3 Barricade Supports should be anchored to soil or pavement as described in compliant Work Zone Traffic Control Devices List, section D.2.f and D.2.g.

DETAIL 5

LEGEND

	Bidirectional Delineator
	Delineator
	OM-3
	Barricade
	Sign
	OM-2
	Double Delineator

Texas Department of Transportation

Traffic Safety Division Standard

DELINEATOR & OBJECT MARKER PLACEMENT DETAILS

D & OM(4)-20

FILE: dom4-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT August 2004	CONT	SECT	JOB	HIGHWAY
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	YKM	COLORADO, ETC.		205

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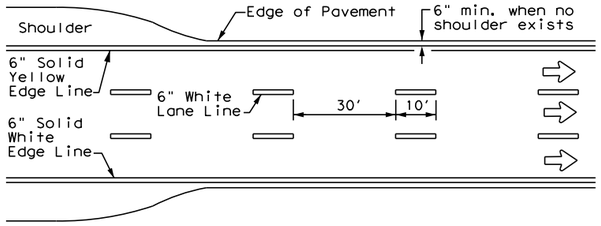
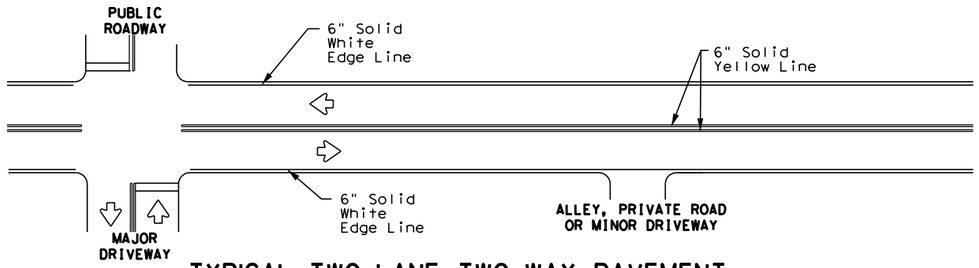
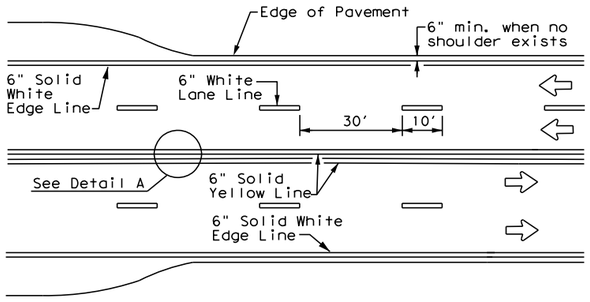
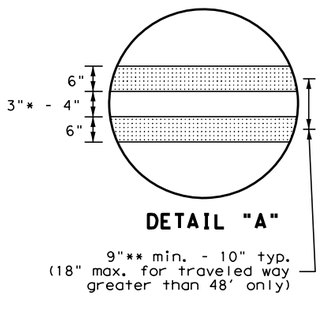


EDGE LINE AND LANE LINES ONE-WAY ROADWAY WITH OR WITHOUT SHOULDERS



TYPICAL TWO-LANE, TWO-WAY PAVEMENT MARKINGS THROUGH INTERSECTIONS

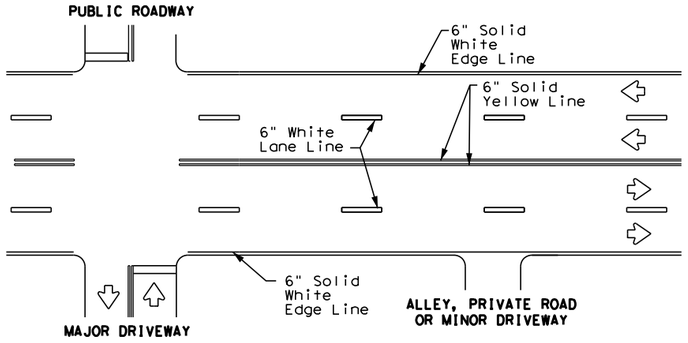




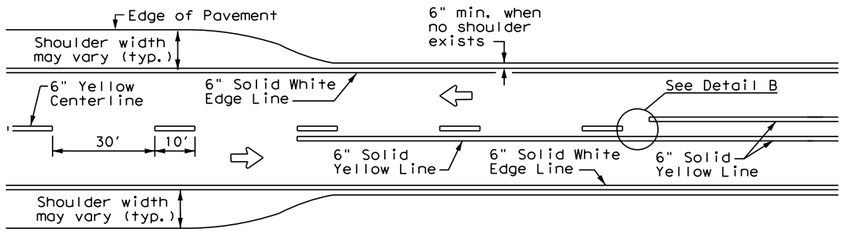
CENTERLINE AND LANE LINES FOUR LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS

* 2" minimum for restripe projects when approved by the Engineer.

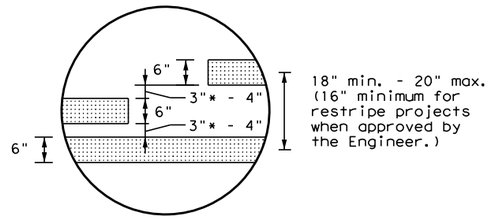
** 8" minimum for restripe projects when approved by the Engineer.



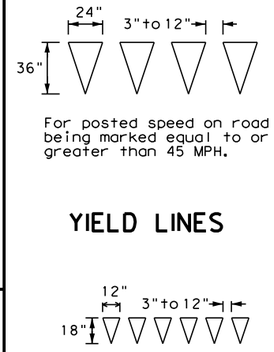
TYPICAL MULTI-LANE, TWO-WAY PAVEMENT MARKINGS THROUGH INTERSECTIONS

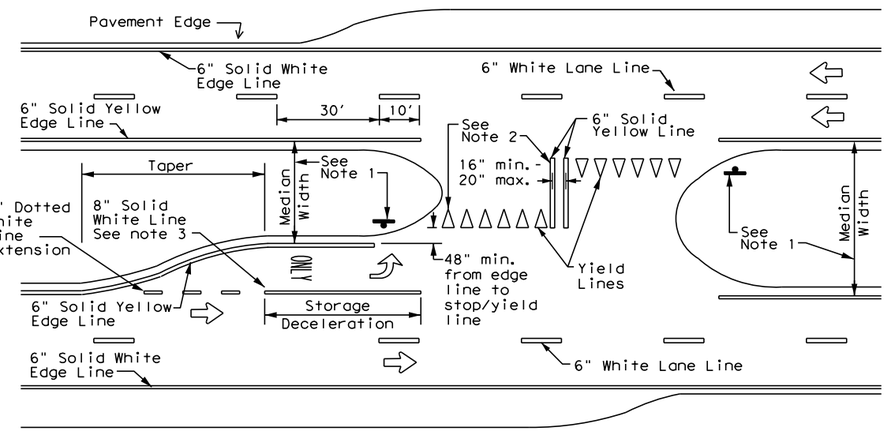


TWO LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS



* 2" minimum for restripe projects when approved by the Engineer.





FOUR LANE DIVIDED ROADWAY CROSSOVERS

NOTES

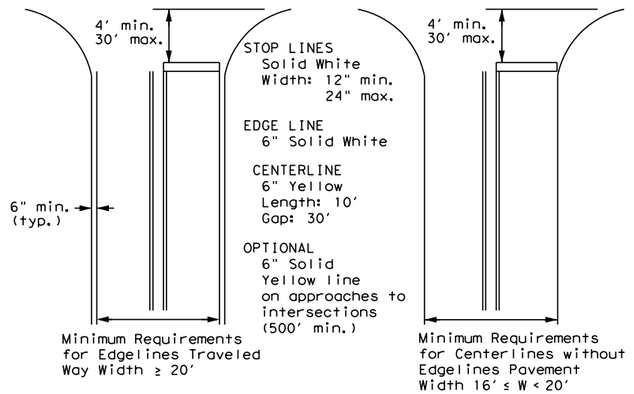
1. Where divided highways are separated by median widths at the median opening itself of 30 feet or more, median openings shall be signed as two separate intersections. Each median opening has two width measurements, with one measurement for each approach. The narrow median width will be the controlling width to determine if signs are required. Yield signs are the typical intersection control. Stop signs and stop bars are optional as determined by the Engineer.
2. Install median striping (double yellow centerlines and stop lines/yield 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 yield signs.
3. Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer.

GENERAL 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 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

Texas Department of Transportation

Traffic Safety Division Standard

TYPICAL STANDARD PAVEMENT MARKINGS

PM(1)-22

FILE: pm1-22.dgn	DN:	CK:	DW:	CK:
©TxDOT December 2022	CONT	SECT	JOB	HIGHWAY
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	YKM	COLORADO, ETC.		206

22A

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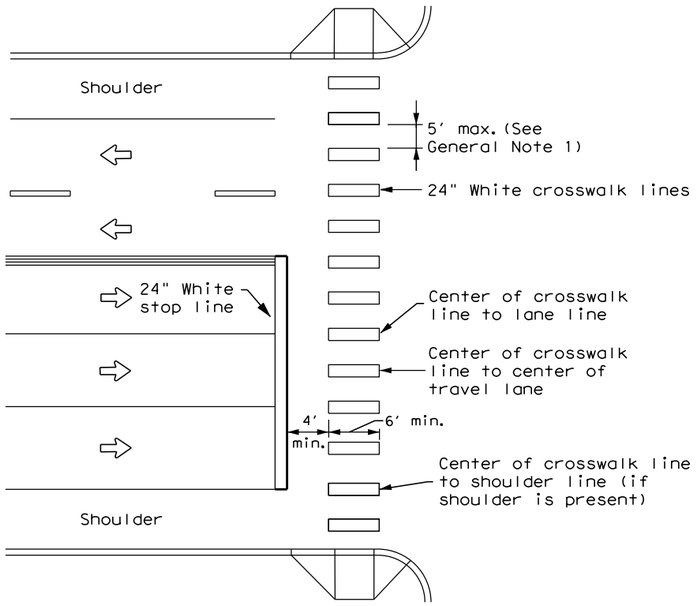


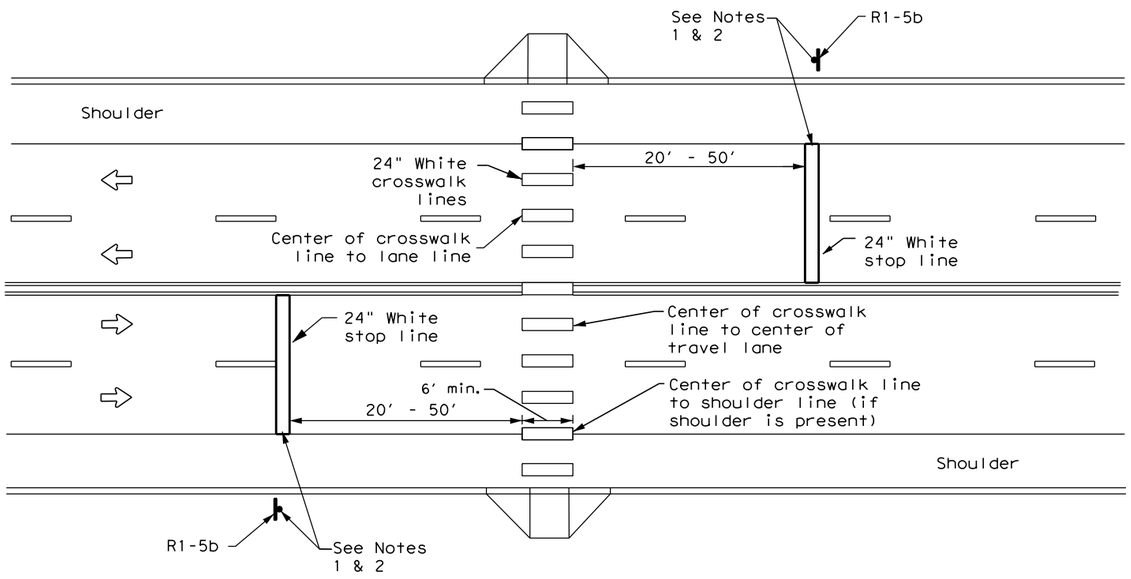
HIGH-VISIBILITY LONGITUDINAL CROSSWALK AT CONTROLLED APPROACH

GENERAL NOTES

1. 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).
2. 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.
4. 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."
7. 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 MIDBLOCK HIGH-VISIBILITY LONGITUDINAL CROSSWALK

NOTES:

1. Use stop bars with Stop Here For Pedestrians (R1-5b) signs at unsignalized midblock cross walks.
2. 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.

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CROSSWALK PAVEMENT MARKINGS

PM(4)-22A

FILE: pm4-22a.dgn	DN:	CK:	DW:	CK:
© TxDOT December 2022	CONT	SECT	JOB	HIGHWAY
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6-20	DIST	COUNTY		SHEET NO.
6-22	YKM	COLORADO, ETC.		207
12-22				

220

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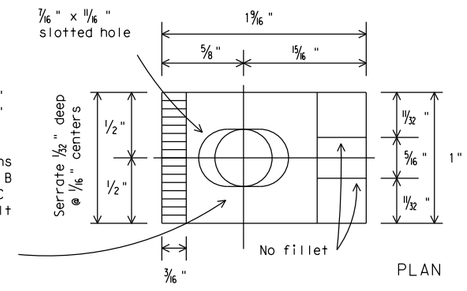
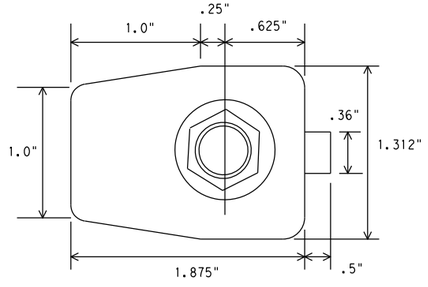
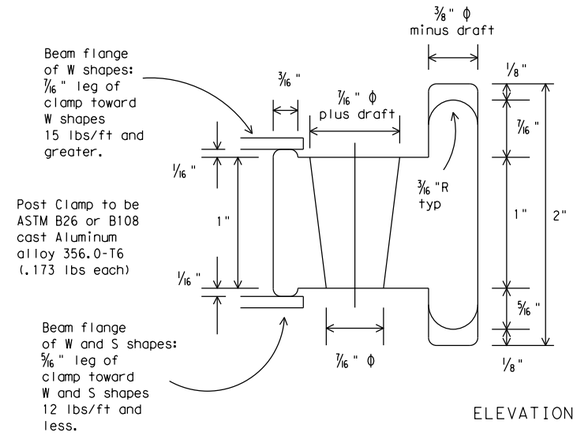
NOTE: centerline of hole for 3/8" diameter squarehead bolt x 2 1/4" long with a flat washer and self-locking nut, or lock washer and hex. nut. Bolt head dimensions shall be in accordance with ANSI B 18.2.1 as referred to in the AISC Manual of steel construction. Bolt assembly shall be galvanized.



PLAN

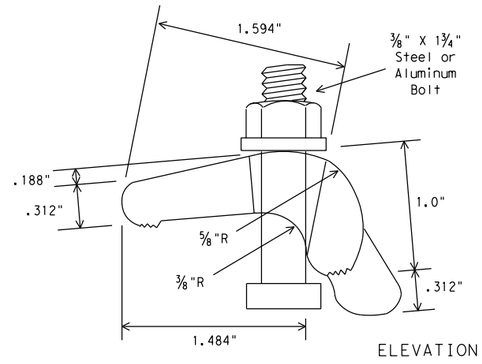


PLAN



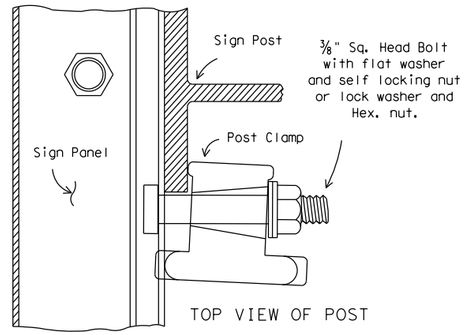
ELEVATION

POST CLAMP DETAIL

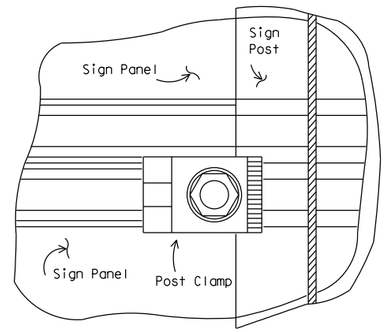


ELEVATION

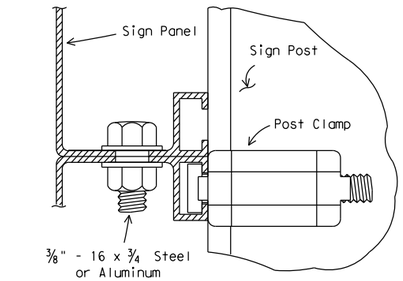
ALTERNATE POST CLAMP DETAIL



TOP VIEW OF POST



TOP VIEW OF CLAMP



SIDE VIEW OF PANELS

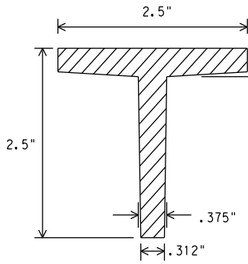
CONNECTION DETAILS

DEPARTMENTAL MATERIAL SPECIFICATIONS

SIGN HARDWARE DMS-7120

GENERAL NOTES:

1. Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
2. Materials and fabrication shall conform to the requirements of the Department material specifications.
3. Structural steel shall be "low-alloy steel" for non-bridge structures per Item 442, "Metal For Structures."
4. For fiberglass substrate connection details, see manufacturer's recommendations.

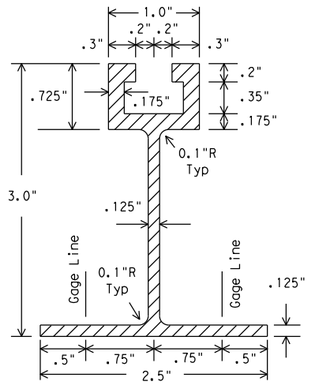


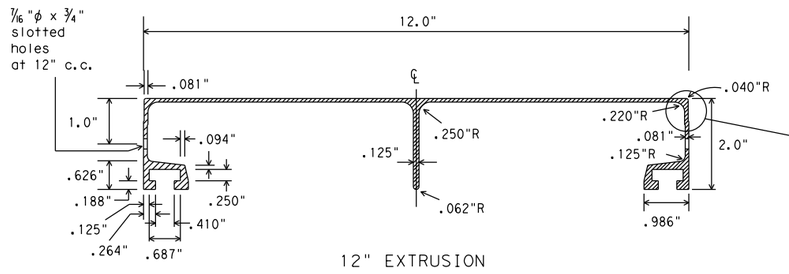
1.912 lbs/ft

ALUMINUM T SECTION OR APPROVED ALTERNATIVE

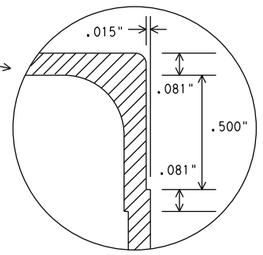
WINDBEAM CROSS SECTION

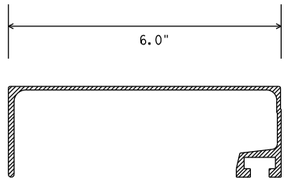
Windbeam to be extruded aluminum (1.175 lbs/ft) or approved alternative





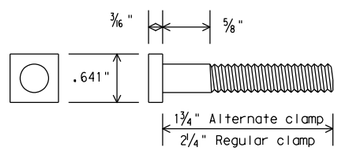
12" EXTRUSION





6" EXTRUSION

ALUMINUM SIGN PANEL EXTRUSION DETAILS



POST CLAMP BOLT DETAIL

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS- EXTRUDED ALUMINUM SIGN PANELS & HARDWARE

SMD(2-1)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS 9-08

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90, ETC.

DIST	COUNTY	SHEET NO.
YKM	COLORADO, ETC.	208

27A

DATE: 6/4/2024 6:42:56 PM
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SIGN SUPPORT DESCRIPTIVE CODES

(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

Post Type
- FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
- TWT = Thin-Walled Tubing (see SMD(TWT))
- 10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3))
- S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

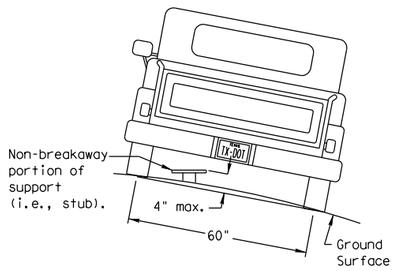
Number of Posts (1 or 2)

Anchor Type
- UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
- UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))
- WS = Wedge Anchor Steel - (see SMD(TWT))
- WP = Wedge Anchor Plastic (see SMD(TWT))
- SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))
- SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

Sign Mounting Designation
- P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
- T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
- U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))

IF REQUIRED
- 1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
- BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
- WC = 1.12 #/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
- EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-1))

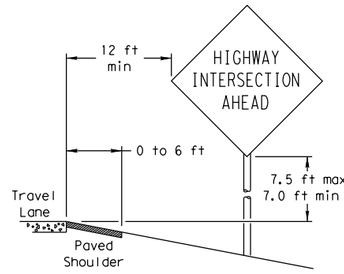
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).

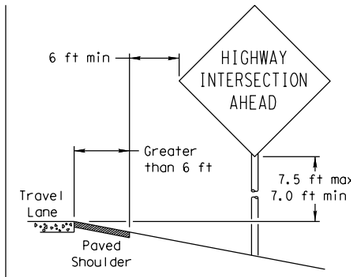
SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

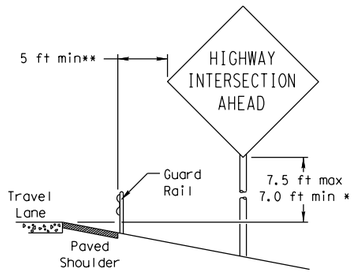
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



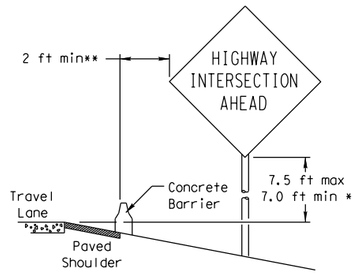
GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

BEHIND BARRIER



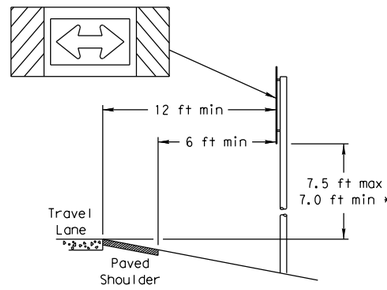
BEHIND GUARDRAIL



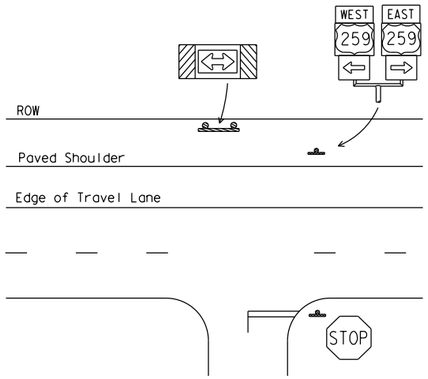
BEHIND CONCRETE BARRIER

**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

T-INTERSECTION



When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.



* Signs shall be mounted using the following condition that results in the greatest sign elevation:

(1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or

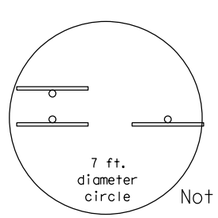
(2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backslope.

The maximum values may be increased when directed by the Engineer.

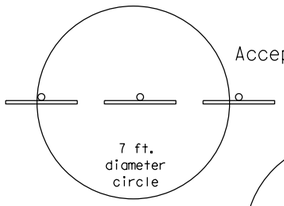
See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

The website address is:
http://www.txdot.gov/publications/traffic.htm

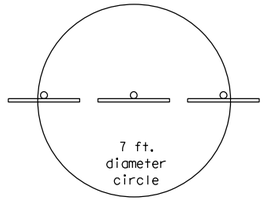
No more than 2 sign posts should be located within a 7 ft. circle.



Not Acceptable



Acceptable



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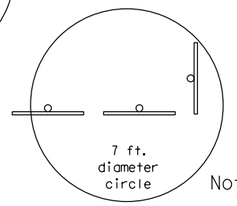
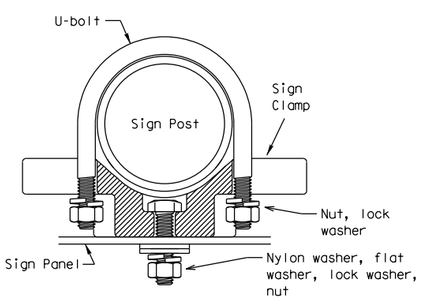


Not Acceptable

TYPICAL SIGN ATTACHMENT DETAIL

Single Signs

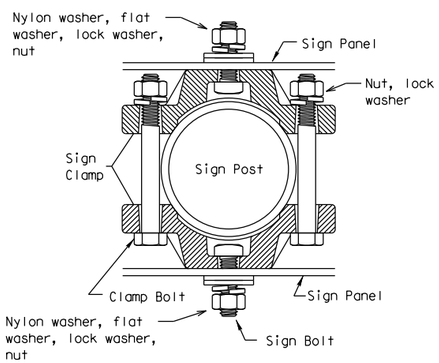


Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

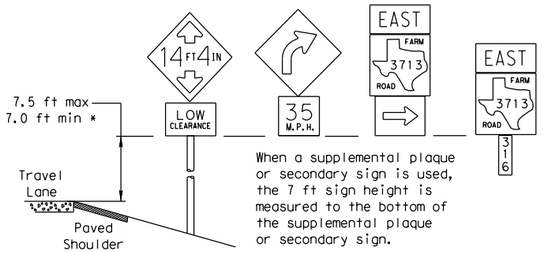
Sign clamps may be either the specific size clamp or the universal clamp.

Back-to-Back Signs



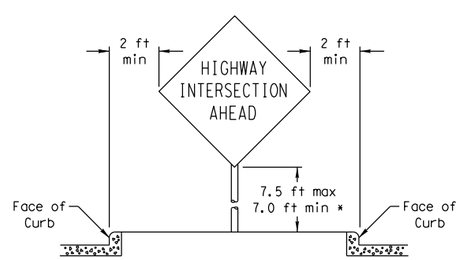
Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

SIGNS WITH PLAQUES



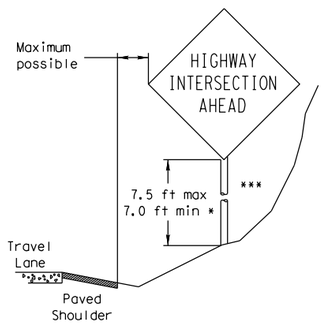
When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

CURB & GUTTER OR RAISED ISLAND



RESTRICTED RIGHT-OF-WAY

(When 6 ft min. is not possible.)



Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.

*** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme slope.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS	CONT	SECT	JOB	HIGHWAY
9-08	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		209

26A

DATE: 6/4/2024 6:42:57 PM
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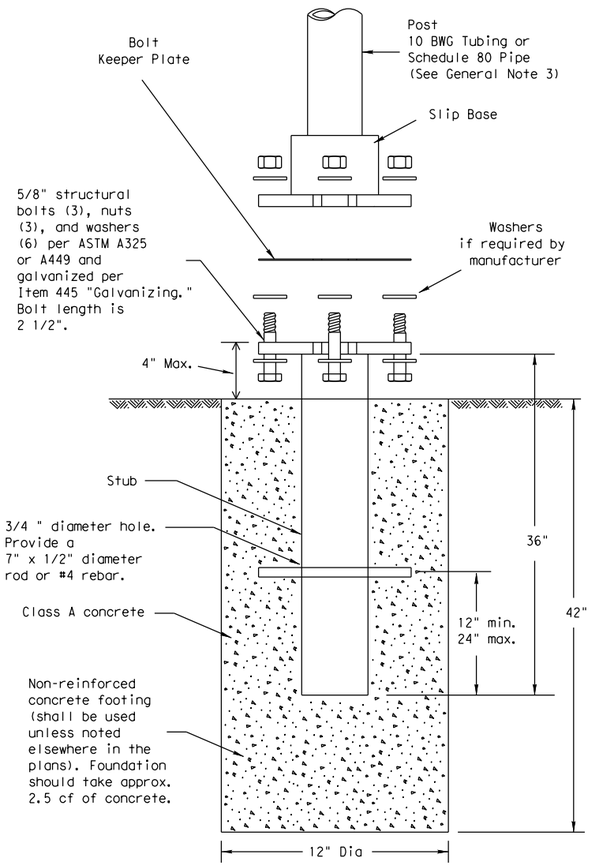
TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



SM RD SGN ASSM TY XXXXX(X)SA(X-XXXX)

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer_list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

1. Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
2. Material used as post with this system shall conform to the following specifications:
   10 BWG Tubing (2.875" outside diameter)
   - 0.134" nominal wall thickness
   - Seamless or electric-resistance welded steel tubing or pipe
   - Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008
   - Other steels may be used if they meet the following:
     - 55,000 PSI minimum yield strength
     - 70,000 PSI minimum tensile strength
     - 20% minimum elongation in 2"
   - Wall thickness (uncoated) shall be within the range of 0.122" to 0.138"
   - Outside diameter (uncoated) shall be within the range of 2.867" to 2.883"
   - Galvanization per ASTM A123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.

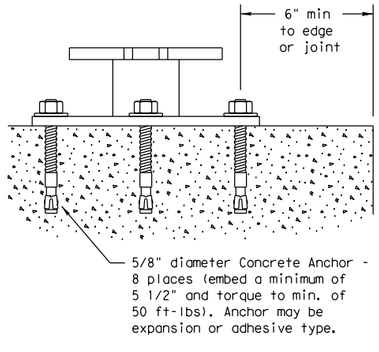
   Schedule 80 Pipe (2.875" outside diameter)
   - 0.276" nominal wall thickness
   - Steel tubing per ASTM A500 Gr C
   - Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
     - 46,000 PSI minimum yield strength
     - 62,000 PSI minimum tensile strength
     - 21% minimum elongation in 2"
   - Wall thickness (uncoated) shall be within the range of 0.248" to 0.304"
   - Outside diameter (uncoated) shall be within the range of 2.855" to 2.895"
   - Galvanization per ASTM A123
3. See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is: http://www.txdot.gov/publications/traffic.htm
4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

Foundation
1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.
3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
5. The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

Support
1. Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be plumb and straight.
2. Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for clearances based on sign types.

CONCRETE ANCHOR



SM RD SGN ASSM TY XXXXX(X)SB(X-XXXX)

Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normal-weight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-1)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

REVISIONS
9-08

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90, ETC.

DIST	COUNTY	SHEET NO.
YKM	COLORADO, ETC.	210

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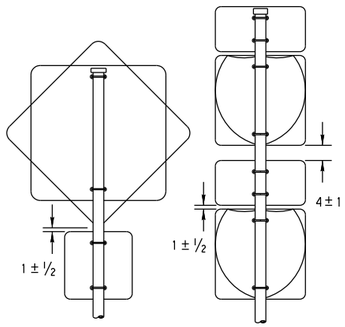
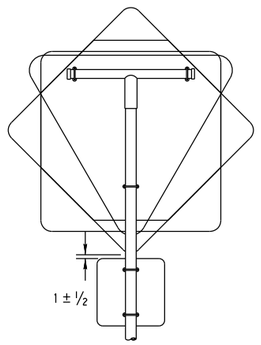


SM RD SGN ASSM TY XXXXX(1)XX(P)



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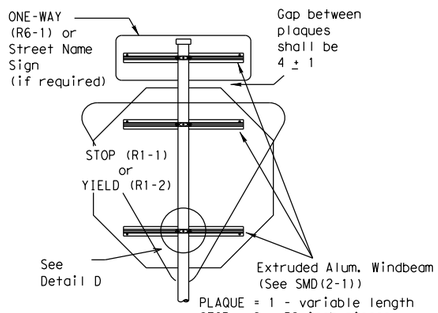

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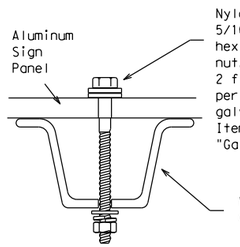
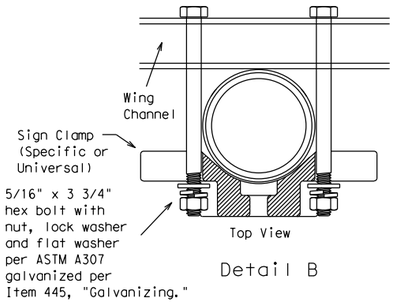
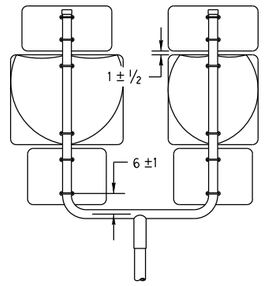


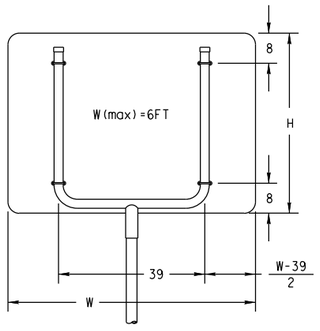
Detail A



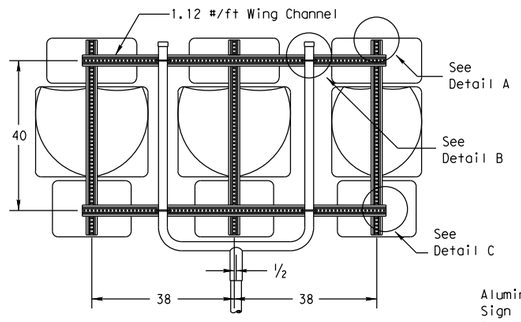
Detail B



SM RD SGN ASSM TY XXXXX(1)XX(U)



SM RD SGN ASSM TY XXXXX(1)XX(U)



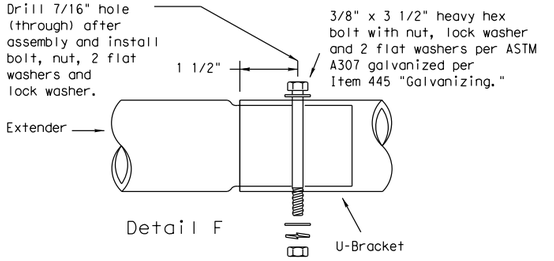
SM RD SGN ASSM TY XXXXX(1)XX(U-WC)
(See Note 11)

GENERAL NOTES:

1.

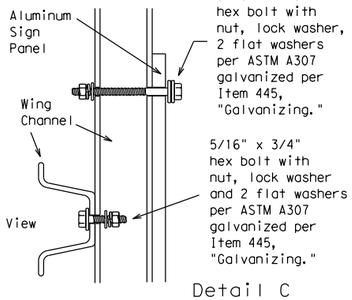
SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
4. Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
9. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
10. Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
11. Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
12. Post open ends shall be fitted with Friction Caps.
13. Sign blanks shall be the sizes and shapes shown on the plans.

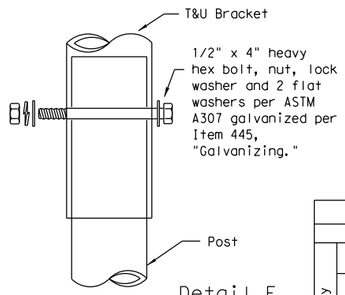


Detail F

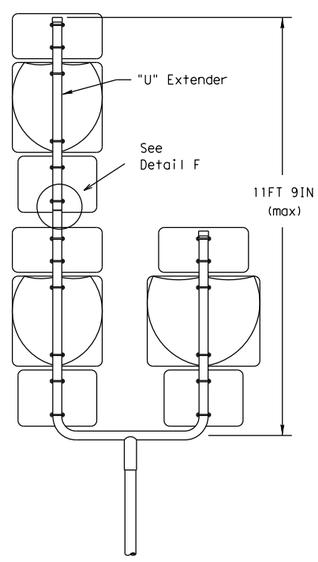
Splices shall only be allowed behind the sign substrate.



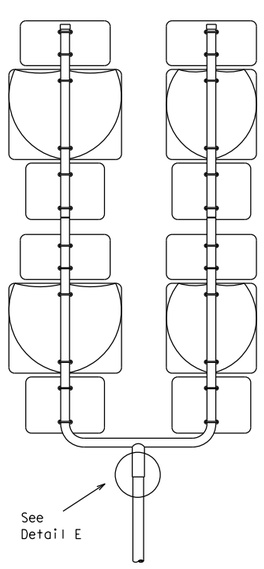
Detail C



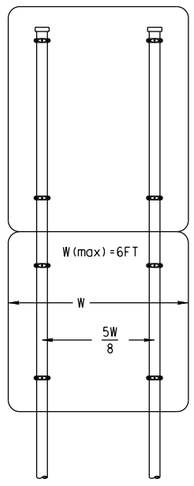
Detail E



SM RD SGN ASSM TY S80(1)XX(U-1EXT)

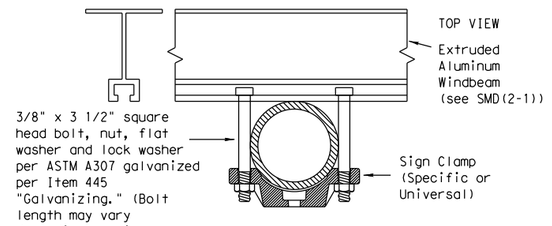


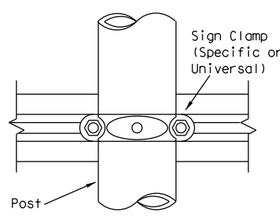
SM RD SGN ASSM TY S80(1)XX(U-2EXT)



SM RD SGN ASSYM TY XXXXX(2)XX(P)

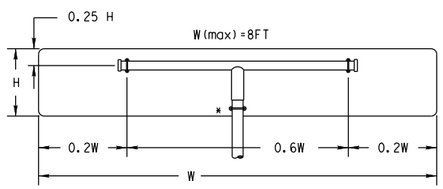
SIDE VIEW





Detail D

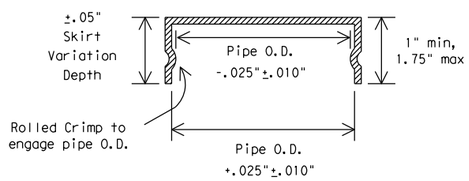
REQUIRED SUPPORT		
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
Warning	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)



SM RD SGN ASSM TY XXXXX(1)XX(T)
(* - See Note 12)

All dimensions are in english unless detailed otherwise.

FRICTION CAP DETAIL



Friction caps may be manufactured from hot rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes.

The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture.

Caps shall have an electrodeposited coating of zinc in accordance with the requirements of ASTM B633 Class FE/ZN 8.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-2)-08

REVISIONS	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
9-08	CONT	SECT	JOB	HIGHWAY
	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		211

26C

DATE: 6/4/2024 6:42:58 PM
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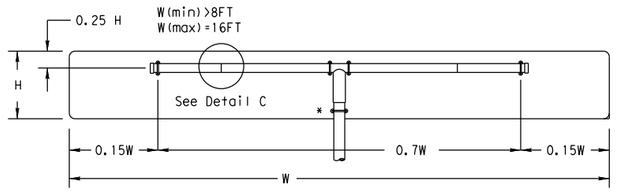
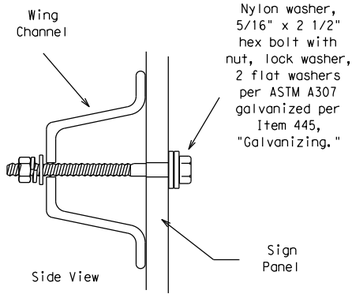
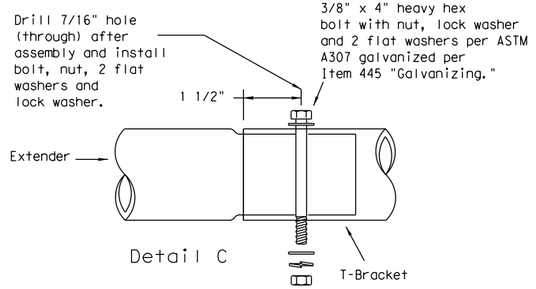


SM RD SGN ASSM TY XXXXX(1)XX(T-2EXT)
(* - See Note 12)



Detail B



Detail C

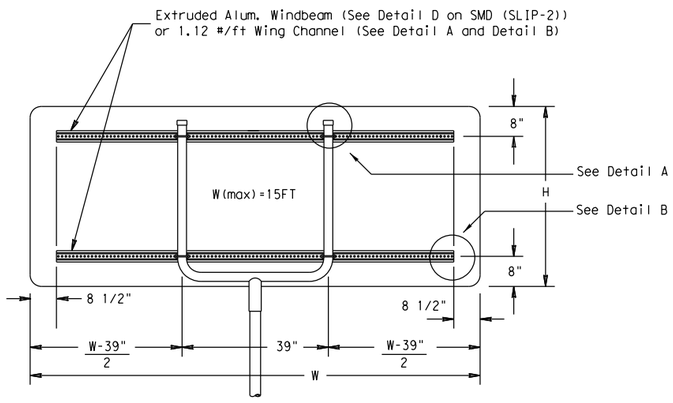
Splices shall only be allowed behind the sign substrate.

GENERAL NOTES:

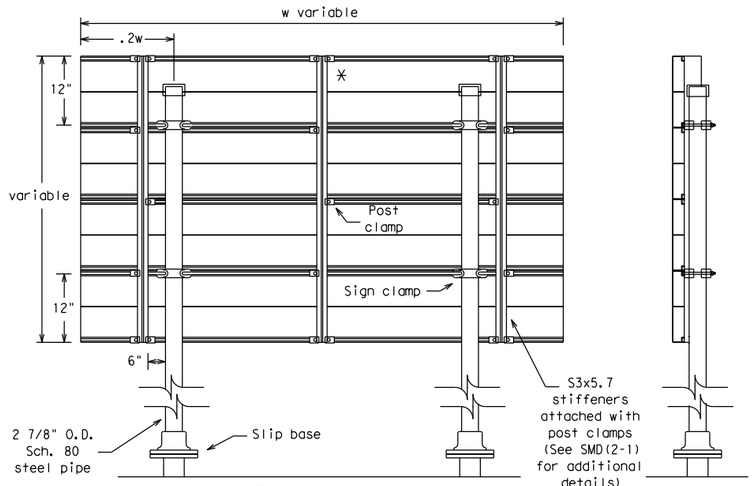
1.

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
4. Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
8. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
9. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
10. Sign blanks shall be the sizes and shapes shown on the plans.
11. Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
12. Post open ends shall be fitted with Friction Caps.

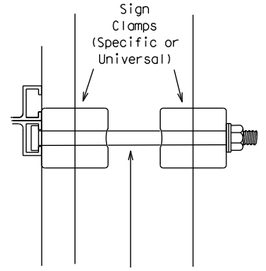


SM RD SGN ASSM TY XXXXX(1)XX(U-XX)

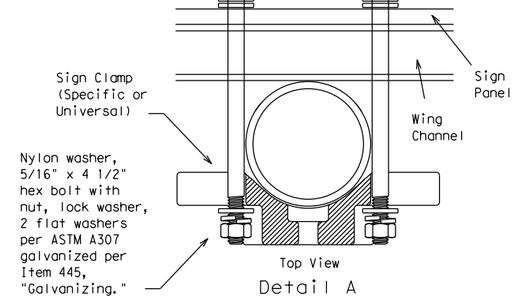


Typical Sign Mount
SM RD SGN ASSM TY S80(2)XX(P-EXAL)
* Additional stiffener placed at approximate center of signs when sign width is greater than 10'.

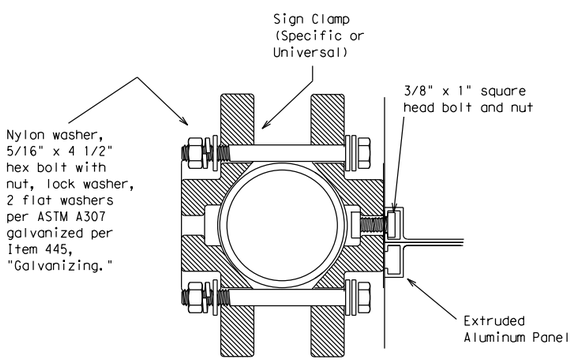
See Detail E
for clamp installation



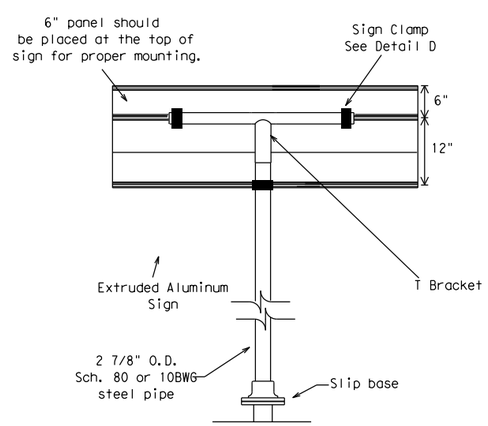
Detail E



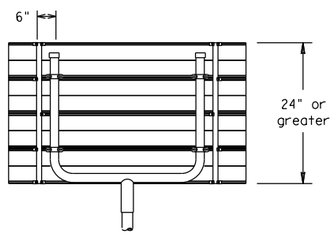
Detail A



Detail D
EXTRUDED ALUMINUM SIGN WITH T BRACKET



Extruded Aluminum Sign
With T Bracket



Use Extruded Alum. Windbeam as stiffeners
See SMD (2-1) for additional details

See Detail E
for clamp installation

REQUIRED SUPPORT		
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
Warning	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-3)-08

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT

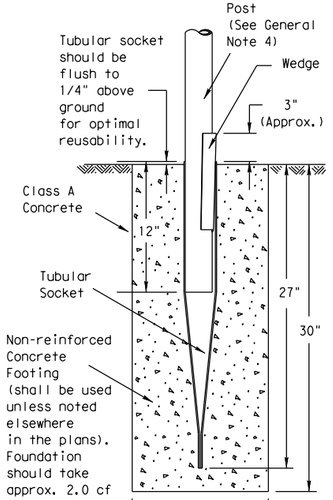
REVISIONS
9-08

CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90, ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		212

26D

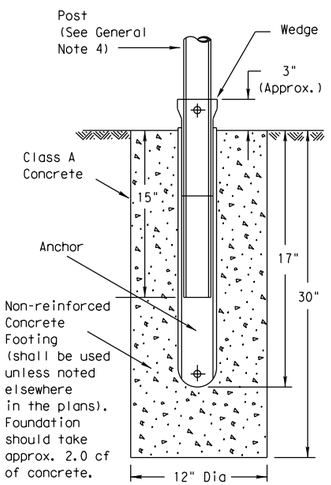
DATE: 6/4/2024 6:42:59 PM
FILE: G:\TXC\Projects\TxDOT\7313-08 Supplemental to YKM Sidewalk Pack 14\5832-14 YKM*Sidewalks*Hallettsville*Cuero*etc\03*CADD\01*Shts\08-SPMD\Srds\TXDOT\smdtwt.dgn

Wedge Anchor Steel System



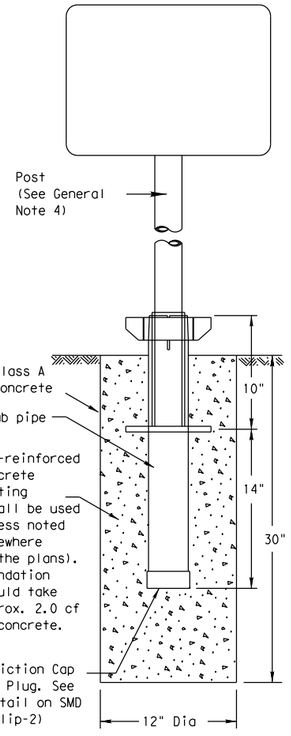
SM RD SGN ASSM TY TWT(X)WS(X)

Wedge Anchor High Density Polyethylene (HDPE) System

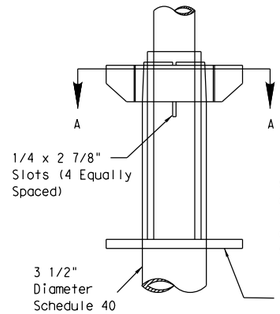


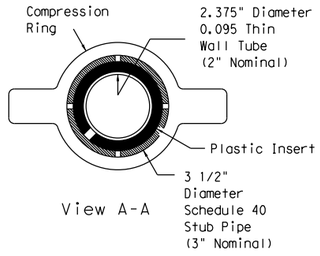
SMD RD SGN ASSM TY TWT(X)WP(X)

Universal Anchor System with Thin-Walled Tubing Post



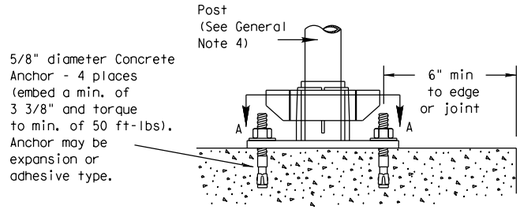
SM RD SGN ASSM TY TWT(X)UA(P)



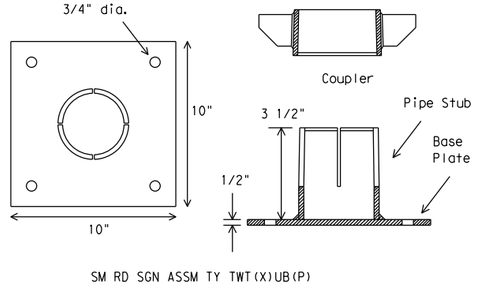


View A-A

Plastic insert must be used when using the TWT with either the Universal Anchor System or the Bolt Down Universal Anchor System. The insert should be approx. 10" long and cover the tubing from just above the top of the stub pipe to the bottom of the sign post when using the Universal Anchor System. The insert should be cut to approx. 4 1/2" when used with the Bolt Down Universal Anchor System.

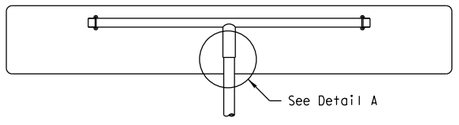


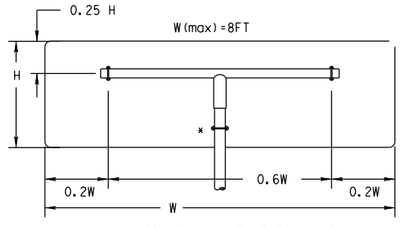
Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. A heavy hex nut per ASTM A563 and hardened washer per ASTM F436. The stud bolt shall have minimum yield and ultimate tensile strengths of 50 and 75 ksi, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Top of bolt shall extend at least flush with top of nut when installed. The anchor, when installed in 4000 psi normal-weight concrete with a 3 3/8" minimum embedment, shall have a minimum allowable tension and shear of 2450 and 1525 psi, respectively. Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations.



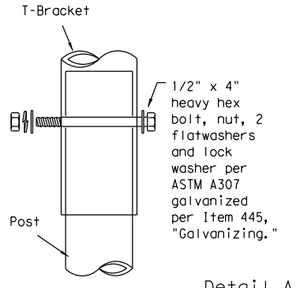
SM RD SGN ASSM TY TWT(X)UB(P)

Sign Installation Using a Prefabricated T-Bracket for Thin-Wall Tubing Post





SM RD SGN ASSM TY TWT(X)XX(T)
(* - See General Note 6)



Detail A

9/16" hole may need to be drilled through post to accommodate bolt.

NOTE

The devices shall be installed per manufacturer's recommendations.
Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES:

1. The Wedge Anchor System and the Universal Anchor System with thin wall tubing post may be used to support up to 10 square feet of sign area.
2. The tubular socket, wedge and prefabricated T-bracket shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to the approval of the TxDOT Traffic Standards Engineer.
3. Except for posts (13 BWG Tubing), clamps, nuts and bolts, all components shall be prequalified. A list of prequalified vendors may be obtained from the Material Producer List web page. The website address is: http://www.txdot.gov/business/producer list.htm
4. Material used as post with this system shall conform to the following specifications:
   13 BWG Tubing (2.375" outside diameter) (TWT)
   0.095" nominal wall thickness
   Seamless or electric-resistance welded steel tubing
   Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008
   Other steels may be used if they meet the following:
   55,000 PSI minimum yield strength
   70,000 PSI minimum tensile strength
   18% minimum elongation in 2"
   Wall thickness (uncoated) shall be within the range of .083" to .099"
   Outside diameter (uncoated) shall be within the range of 2.369" to 2.381"
   Galvanization per ASTM 123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.
5. Sign blanks shall be the sizes and shapes shown on the plans.
6. Additional sign clamp required on the "T-bracket" post for 24" high signs. Place clamp at least 3" above bottom of sign when possible.
7. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
8. See the Traffic Operations Division website for detailed drawings of sign clamps and Wedge Anchor System components. The website address is: http://www.txdot.gov/publications/traffic.htm

WEDGE ANCHOR SYSTEM INSTALLATION PROCEDURE

1. Dig foundation hole. Where solid rock is encountered at ground level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum length of 18". Any material removed from the socket/stub shall be from the bottom and the clearance requirements given on SMD(GEN) must be followed. The inner surfaces of the socket/stub must remain free of concrete or other debris.
2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Place concrete into hole until it is approximately flush with the ground. Concrete shall be Class A.
3. Insert tubular socket into concrete until top of socket is approximaely 1/4 " above the concrete footing.
4. Plumb the socket. Allow a minimum 4 days for concrete to set, unless otherwise directed by Engineer..
5. Attach the sign to the sign post.
6. Insert the sign post into socket and align sign face with roadway.
7. Drive the wedge into the socket to secure post. This will leave approximately 3 inches of the wedge exposed.

UNIVERSAL ANCHOR SYSTEM INSTALLATION PROCEDURE

1. Dig foundation hole. Where solid rock is encountered at ground level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall extend in the solid rock a minimum depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum length of 18". Any material removed from the socket/stub shall be from the bottom and the clearance requirements given on SMD(GEN) must be followed. The inner surfaces of the socket/stub must remain free of concrete or other debris.
2. Insert base post in hole to depths shown and backfill hole with concrete.
3. Level and plumb the base post using a torpedo level and allow concrete adequate time to set. The bottom of the slots provided in the stub pipe shall remain above the top of the concrete foundation.
4. Attach the sign to the sign post.
5. Install plastic insert around bottom of post.
6. Insert sign post into base post. Lower until the post comes to rest on steel rod.
7. Seat compression ring using a hammer. Typically, the top of compression ring will be approximately level with top of stub post when optimally installed.
8. Check sign post by hand to ensure it is unable to turn. If loose, increase the tightening of the compression ring.

Texas Department of Transportation
Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS WEDGE & UNIVERSAL ANCHOR WITH THIN WALL TUBING POST

SMD(TWT)-08

9-08 REVISIONS

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CONT	SECT	JOB	HIGHWAY
0026	04	048, ETC.	US 90, ETC.
DIST	COUNTY		SHEET NO.
YKM	COLORADO, ETC.		213

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GENERAL NOTES FOR ALL ELECTRICAL WORK

1. The location of all conduits, junction boxes, ground boxes, and electrical services is diagrammatic and may be shifted to accommodate field conditions.

2. Provide new and unused materials. Ensure that all materials and installations comply with the applicable articles of the National Electrical Code (NEC), TxDOT standards and specifications, National Electrical Manufacturers Association (NEMA), and are listed by Underwriters Laboratories (UL) or a Nationally Recognized Testing Lab (NRTL). NRTLs such as Canadian Standard Association (CSA), Intertek Testing Services NA Inc., or FM Approvals LLC can be considered equivalent to UL. Where reference is made to NEMA listed devices, International Electrotechnical Commission (IEC) listed devices will not be considered an acceptable equal to a NEMA listed device. Acceptable devices may have both a NEMA and IEC listing. Faulty fabrication or poor workmanship in any material, equipment, or installation is justification for rejection. Replace or reinstall rejected material or equipment at no additional cost to the Department.

3. Miscellaneous nuts, bolts and hardware, except for high strength bolts, may be stainless steel when plans specify galvanized, provided the bolt size is ½ in. or less in diameter.

4. Provide the following test equipment as required by the Engineer to confirm compliance with the contract and the NEC: voltmeter, ammeter, megohm meter (1000 volt DC), ground resistance tester, torque wrenches, and torque screwdrivers. Ensure all equipment has been properly calibrated within the last year. Provide calibration certification to the Engineer upon request. Operate test equipment during inspection as requested by the Engineer.

5. Install grounding as shown on the plans and in accordance with the NEC. Ensure all metallic conduits; metal poles; luminaires; and metal enclosures are bonded to the equipment grounding conductor. Provide stranded bare copper or green insulated grounding conductors. Ground rods, connectors, and bonding jumpers are subsidiary to the various bid items.

6. When required by the Engineer, notify the Department in writing of materials from the Material Producers List (MPL) intended for use on each project. Prequalified materials are listed on the MPL on TxDOT's website under "Roadway Illumination and Electrical Supplies." No substitutions will be allowed for materials on this list.

CONDUIT

A. MATERIALS

1. Provide conduit, junction boxes, fittings, and hardware as per TxDOT Departmental Material Specification (DMS) 11030 "Conduit" and Item 618 "Conduit" of TxDOT's "Standard Specifications For Construction And Maintenance Of Highways, Streets, And Bridges," latest edition. Provide conduits listed under Item 618 on the MPL under "Roadway Illumination and Electrical Supplies." Provide conduit types according to the descriptive code or as shown on the plans. Do not substitute other types of conduits for those shown. Provide liquidtight flexible metal conduit (LFMC) when flexible conduit is called for on galvanized steel rigid metallic conduit (RMC) systems. Provide liquidtight flexible nonmetallic conduit (LFNC) when flexible conduit is called for on polyvinyl chloride (PVC) systems.

2. Provide galvanized steel RMC for all exposed conduits, unless otherwise shown on the plans. Properly bond all metal conduits.

3. Unless otherwise shown on the plans, provide junction boxes with a minimum size as shown in the following table, which applies to the greatest number of conductors entering the box through one conduit with no more than four conduits per box. When a mixture of conductor sizes is present, count the conductors as if all are of the larger size. For situations not applicable to the table, size junction boxes in accordance with NEC.

AWG	3 CONDUCTORS	5 CONDUCTORS	7 CONDUCTORS
#1	10" x 10" x 4"	12" x 12" x 4"	16" x 16" x 4"
#2	8" x 8" x 4"	10" x 10" x 4"	12" x 12" x 4"
#4	8" x 8" x 4"	10" x 10" x 4"	10" x 10" x 4"
#6	8" x 8" x 4"	8" x 8" x 4"	10" x 10" x 4"
#8	8" x 8" x 4"	8" x 8" x 4"	8" x 8" x 4"

4. Junction boxes with an internal volume of less than 100 cu. in. and supported by entering raceways must have threaded entries or hubs identified for the intended purpose and supported by connection of two or more rigid metal conduits. Secure conduit within 3 ft. of the enclosure or within 18 in. of the enclosure if all conduit entries are on the same side. Mechanically secure all junction boxes with an internal volume greater than 100 cu. inches.

5. Provide hot dipped galvanized cast iron or sand cast aluminum outlet boxes for junction boxes containing only 10 AWG or 12 AWG conductors. Do not use die cast aluminum boxes. Size outlet boxes according to the NEC.

6. Do not use intermediate metal conduit (IMC) or electrical metallic tubing (EMT) unless specifically required by the plan sheets. When EMT is called for, provide junction boxes made from galvanized steel sheeting, listed and approved for outdoor use, unless otherwise noted on the plans. Size all galvanized steel junction boxes in accordance with the NEC. Provide junction boxes for IMC conduit systems that meet the same requirements for junction boxes used with RMC systems.

7. Provide PVC junction boxes intended for outdoor use on PVC conduit systems, unless otherwise noted on the plans.

8. Provide PVC elbows in PVC conduit systems, unless otherwise shown on the plans. Use only a flat, high tensile strength polyester fiber pull tape for pulling conductors through the PVC conduit system. When galvanized steel RMC elbows are specifically called for in the plans and any portion of the RMC elbow is buried less than 18 in., ground the RMC elbow by means of a grounding bushing on a rigid metal extension. Grounding of the rigid metal elbow is not required if the entire RMC elbow is encased in a minimum of 2 in. of concrete. PVC extensions are allowed on these concrete encased rigid metal elbows. RMC or PVC elbows are subsidiary to various bid items.

9. When required, provide High-Density Polyethylene (HDPE) conduit with factory installed internal conductors according to Item 622 "Duct Cable." At the Contractor's request and with approval by the Engineer, substitute HDPE conduit with no conductors for bored schedule 40 or schedule 80 PVC conduit bid under Item 618. Ensure bored HDPE substituted for PVC is schedule 40 and of the same size PVC called for in the plans. Ensure the substituted HDPE meets the requirements of Item 622, except that the conduit is supplied without factory-installed conductors. Make the transition of the HDPE conduit to PVC (or RMC elbow when required) at the bore pit. Provide conduit of the size and schedule as shown on the plans. Do not extend substituted conduit into ground boxes or foundations. Provide PVC or galvanized steel RMC elbows as called for at all ground boxes and foundations.

10. Use two-hole straps when supporting 2 in. and larger conduits. On electrical service poles, properly sized stainless steel or hot dipped galvanized one-hole standoff straps are allowed on the service riser conduit.

B. CONSTRUCTION METHODS

1. Provide and install expansion joint conduit fittings on all structure-mounted conduits at the structure's expansion joints to allow for movement of the conduit. In addition, provide and install expansion joint fittings on all continuous runs of galvanized steel RMC conduit externally exposed on structures such as bridges at maximum intervals of 150 ft. When requested by the project Engineer, supply manufacturer's specification sheet for expansion joint conduit fittings. Repair or replace expansion joint fittings that do not allow for movement at no additional cost to the Department. Provide the method of determining the amount of expansion to the Engineer upon request. Do not use LFMC or LFNC as a substitute for the required expansion conduit fittings.

2. Space all conduit supports at maximum intervals of 5 ft. Install conduit spacers when attaching metal conduit to surface of concrete structures. See "Conduit Mounting Options" on ED(2). Install conduit support within 3 ft. of all enclosures and conduit terminations.

3. Do not attach conduit supports directly to pre-stressed concrete beams except as shown specifically in the plans or as approved by the Engineer.

4. Unless otherwise shown on the plans, jack or bore conduit placed beneath existing roadways, driveways, sidewalks, or after the base or surfacing operation has begun. Backfill and compact the bore pits below the conduit per Item 476 "Jacking, Boring, or Tunneling Pipe or Box" prior to installing conduit or duct cable to prevent bending of the connections.

5. When placing conduit in the sub-grade of new roadways, backfill all trenches with excavated material unless otherwise noted on the plans. When placing conduit in the sub-base of new roadways, backfill all trenches with cement-stabilized base as per requirements of Items 110 "Excavation", 400 "Excavation and Backfill for Structures", 401 "Flowable Backfill", 402 "Trench Excavation Protection", and 403 "Temporary Special Shoring."

6. Provide and place warning tape approximately 10 in. above all trenched conduit as per Item 618.

7. During construction, temporarily cap or plug open ends of all conduit and raceways immediately after installation to prevent entry of dirt, debris and animals. Temporary caps constructed of durable duct tape are allowed. Tightly fix the tape to the conduit opening. Clean out the conduit and prove it clear in accordance with Item 618 prior to installing any conductors.

8. Ensure conduit entry into the top of any enclosure is waterproof by installing conduit sealing hubs or using boxes with threaded bosses. This includes surface mounted safety switches, meter cans, service enclosures, auxiliary enclosures and junction boxes. Grounding bushings on water tight sealing hubs are not required.

9. Fit the ends of all PVC conduit terminations with bushings or bell end fittings. Provide and install a grounding type bushing on all metal conduit terminations.

10. Install a bonding jumper from each grounding bushing to the nearest ground rod, grounding lug, or equipment grounding conductor. Ensure all bonding jumpers are the same size as the equipment grounding conductor. Bonding of conduit used as a casing under roadways for duct cable is not required, if the duct extends the full length through the casing.

11. At all electrical services, install a 6 AWG solid copper grounding electrode conductor.

12. Place conduits entering ground boxes so that the conduit openings are between 3 in. and 6 in. from the bottom of the box. See the ground box detail on sheet ED(4).

13. Seal ends of all conduits with duct seal, expandable foam, or by other methods approved by the Engineer. Seal conduit immediately after completion of conductor installation and pull tests. Do not use duct tape as a permanent conduit sealant. Do not use silicone caulk as a conduit sealant.

14. File smooth the cut ends of all mounting strut and conduit. Before installing, paint the field cut ends of all mounting strut and RMC (threaded or non-threaded) with zinc rich paint (94% or more zinc content) to alleviate overspray. Use zinc rich paint to touch up galvanized material as allowed under Item 445 "Galvanizing." Do not paint non-galvanized material with a zinc rich paint as an alternative for materials required to be galvanized.

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS CONDUITS & NOTES

ED(1)-14

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		YKM	COLORADO, ETC.		214

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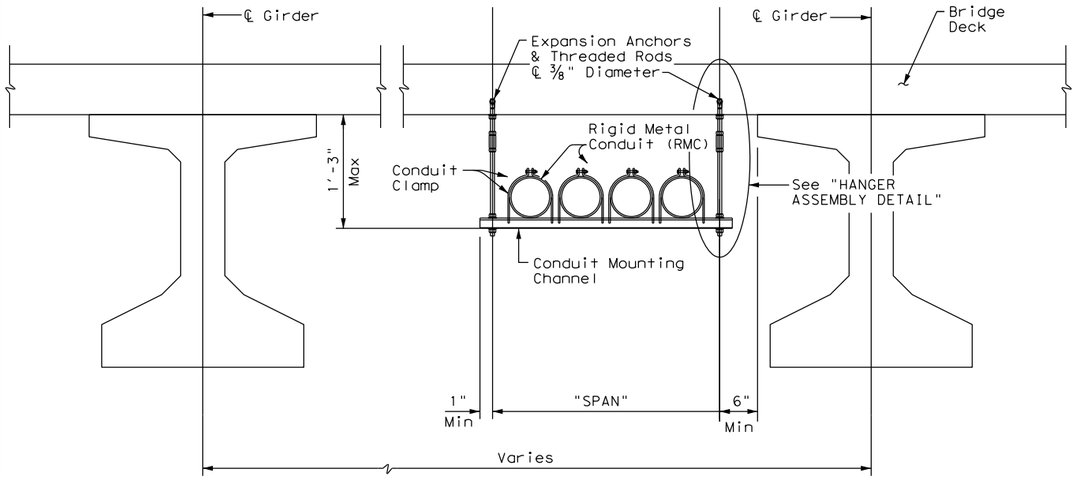
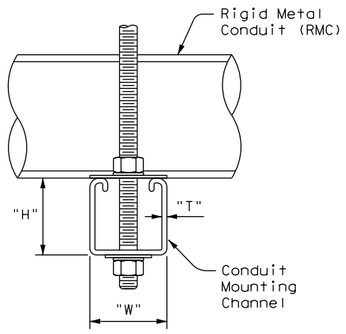
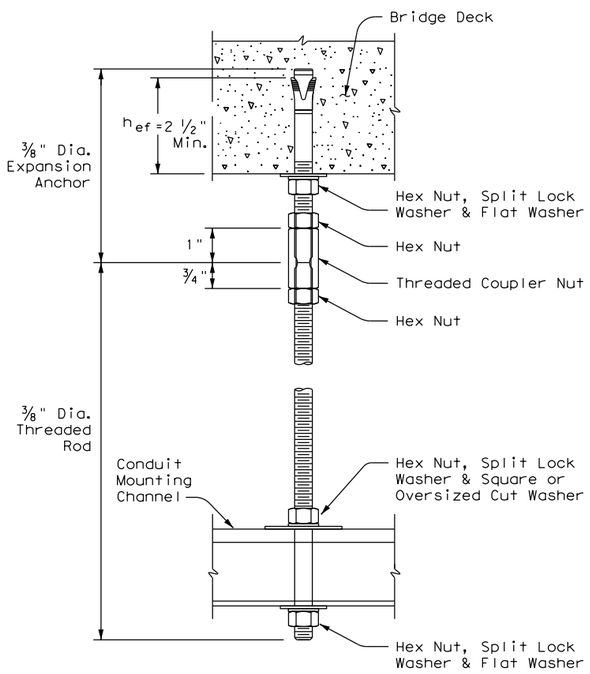


CONDUIT HANGING DETAIL

CONDUIT MOUNTING CHANNEL		
"SPAN"	"W" x "H"	"T"
less than 2'	1 5/8" x 1 3/8"	12 Ga.
2'-0" to 2'-6"	1 5/8" x 1 5/8"	12 Ga.
>2'-6" to 3'-0"	1 5/8" x 2 7/16"	12 Ga.

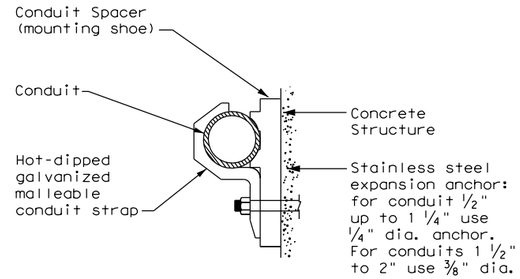
Channels with round or short slotted hole patterns are allowed, if the load carrying capacity is not reduced by more than 15%.

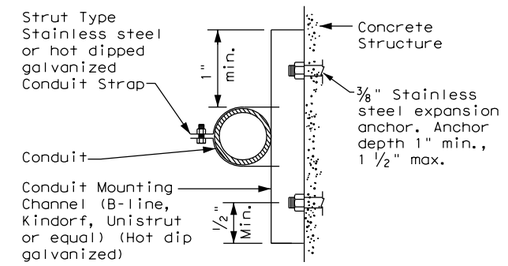




HANGER ASSEMBLY DETAIL

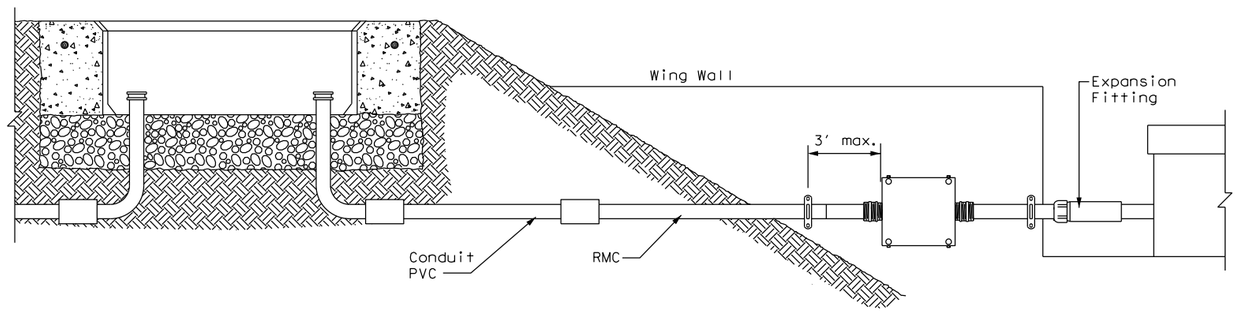
ELECTRIC CONDUIT TO BRIDGE DECK ATTACHMENT





CONDUIT MOUNTING OPTIONS

Attachment to concrete surfaces
See ED(1)B.2



TYPICAL CONDUIT ENTRY TO BRIDGE STRUCTURE DETAIL

EXPANSION ANCHOR NOTES FOR BRIDGE DECK ATTACHMENT

1. Use torque controlled mechanical expansion anchors that are approved for use in cracked concrete by the International Code Council, Evaluation Service (ICC-ES). The chosen anchor product shall have a designated ICC-ES Evaluation Report number, and its approval status shall be maintained on the ICC-ES website under Division 031600 for Concrete Anchors.

2. Unless otherwise approved by the Engineer: do not use adhesive anchors; do not use expansion anchors that are not included in the ICC-ES approval list; and do not use expansion anchors that are only approved for use in uncracked concrete.

3. Use anchors manufactured with stainless steel expansion wedges. Anchors manufactured with carbon steel expansion wedges are not allowed. Anchor bodies can be either zinc-plated carbon steel or stainless steel. For application in marine environment, both the anchor body and expansion wedge shall be stainless steel.

4. Install anchors as shown on the plans and in accordance with the anchor manufacturer's published installation instructions. Arrange a field demonstration test to evaluate the procedures and tools. The test shall be witnessed and approved by the Engineer prior to furnishing anchors on the structure.

5. Prior to hole drilling, use rebar locator to ensure clearing of existing deck strands or reinforcement. Install anchors to ensure a minimum effective embedment depth, (h_{ef}), as shown. Increase (h_{ef})as needed to ensure sufficient thread length for proper torqueing and tightening of anchors.

6. Use anchors of minimum 1600 Lbs tensile capacity (minimum of steel, concrete breakout, and concrete pullout strengths as determined by ACI 318 Appendix D) at the required minimum embedment depth (h_{ef}). No lateral loads shall be introduced after conduit installation.

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS
CONDUIT SUPPORTS

ED(2)-14

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©TxDOT October 2014	CONT	SECT	JOB	HIGHWAY
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ELECTRICAL CONDUCTORS

A. MATERIAL INFORMATION

1. Provide Type XHHW insulated conductors in accordance with Departmental Material Specification (DMS)11040 "Conductors" and Item 620 "Electrical Conductors." Provide conductors as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies" Item 620. Color code insulated conductors in conformance with the NEC. Identify grounded (neutral) conductors with white insulation. Identify grounding conductors (ground wires) with green insulation or bare conductors. Identify ungrounded (hot) conductors with any color insulation except green, white, or gray. Keep color scheme consistent throughout the wiring system. Identify conductors 6 American Wire Gauge (AWG) and smaller by continuous color jacket. Identify electrical conductors 4 AWG and larger by continuous color jacket or by colored tape. When identifying conductors with colored tape, mark at least 6 in. of the conductor's insulation with half laps of tape.

2. Provide a solid copper 6 AWG grounding electrode conductor to bond the electrical service equipment to the concrete encased grounding electrode or the ground rod at the service location. Connect the grounding electrode conductor to the ground rod with a UL listed connector in accordance with DMS 11040. Connect the grounding electrode conductor to the concrete encased grounding electrode as shown in the plans.

3. Where two or more circuits are present in one conduit or enclosure, permanently identify the conductors of each branch circuit by attaching a non-metallic tag around both circuit conductors at each accessible location. Provide tags with two straps, large enough to indicate circuit number, letter, or other identification as shown in the plans. Print circuit identification on the tag with a permanent marker.

4. Use listed compression or screw type pressure connectors, terminal blocks, or split bolt connectors for splicing as specified in DMS 11040. Use hot melt adhesive tape to fill the gap and seal the ends of heat shrink tubing. Provide UL listed gel-filled insulating splice covers. Splicing materials, insulating materials, breakaway disconnects, splice covers, and fuse holders are subsidiary to various bid items.

B. CONSTRUCTION METHODS

1. Use only a flat, high tensile strength polyester fiber pull tape for pulling conductors through the conduit system. After installing conductors in conduit, perform conductor pull test. If a conductor cannot be freely pulled, make any needed alterations or repairs at no additional cost to the department. Perform insulation resistance tests in accordance with Item 620. Coordinate with the Engineer to witness the tests.

2. Leave 2 ft. minimum, 3 ft. maximum length for each conductor up to the splice in ground boxes. Leave 3 ft. minimum, 4 ft. maximum length of conductor in ground boxes when pulled through with no splice. Leave 1 ft. minimum, 1.5 ft. maximum length of conductor at enclosures, weatherheads and pole bases.

3. Make splices only in junction boxes, ground boxes, pole bases, or electrical enclosures and use only listed compression or screw type pressure connectors, terminal blocks, or split bolt connectors. Insulate splices with heavy wall heat shrink tubing or gel-filled insulating splice covers to provide a watertight splice. Overlap conductor insulation with heat shrink tubing a minimum of 2 in. past both sides of the splice. Where heat shrink tubing may not shrink sufficiently to provide a watertight seal around the individual conductors, prior to heating the tubing, increase the diameter of the conductor insulation using hot melt adhesive tape to provide a watertight seal between the individual conductors and the heat shrink tubing. Ensure the tape extends past the heat shrink tubing. Use hot melt adhesive tape to fill the gap and seal the ends of heat shrink tubing. Heat shrink tubing that appears to have been burned, or overheated, is considered defective and must be replaced.

4. Size and install gel-filled insulating splice covers according to manufacturer's specifications when used in place of heat shrink tubing.

5. Wire nuts with factory applied waterproof sealant may be used for 8 AWG or smaller conductors in above ground junction boxes, but not in pole bases or ground boxes. Install wire nuts in an upright position to prevent the accumulation of water.

6. Support conductors in illumination poles with a J-hook at the top of the pole.

7. When terminating conductors, remove the insulation and jacketing material without nicking the individual strands of the conductor. Conductors with nicked individual conductor strands or removed strands will be considered damaged.

8. Replace conductors and cables that are damaged beyond repair or that fail an insulation resistance test at no additional cost to the department.

9. Do not repair damaged conductors with duct tape, electrical tape, or wire nuts. Use only approved splicing methods.

10. Do not terminate more than one conductor under a single connector, unless the connector is rated for multiple conductors. Do not exceed the pressure connector's listing for maximum number and size of conductors allowed.

11. Install breakaway connectors on conductors bid under Item 620 whenever those conductors pass through a breakaway support device. Follow manufacturer's instructions when terminating conductors to breakaway connectors. Properly torque threaded connections. Proper terminations are critical to the safe operation of breakaway devices. Trim waterproofing boots on breakaway connectors to fit snugly around the conductor to ensure waterproof connection. Only one conductor may enter a single opening in a boot. Provide waterproof boots with the correct number of openings. Leave unused openings factory sealed. Use prequalified breakaway connectors as shown on the MPL.

12. Provide and install a separate stranded equipment grounding conductor (EGC) in all conduits that contain circuit wiring of 50 volts or more. Unless shown elsewhere, size the EGC to be the same size as the largest current carrying conductor contained in the conduit. Ensure all EGCs are bonded together at every accessible location. For traffic signal installations, provide a minimum size 8 AWG EGC. The EGC is paid for under Item 620.

C. TEMPORARY WIRING

1. Install temporary conductors and electrical equipment in accordance with the NEC article "Temporary Installations" and Department standard sheets.

2. Provide a ground fault circuit interrupter (GFCI) for power outlets for portable electrical equipment, power tools, ice machines, ice storage bins and refrigerators located outdoors at grade. GFCI may be any one of the following: molded cord and plug set, receptacle, or circuit breaker type.

3. Use listed wire nuts with factory applied sealant for temporary wiring where approved.

4. Enclose conductor splices within a listed enclosure or ground box, or ensure the splices are more than 10 ft. above grade vertically and more than 5 ft. horizontally from any metal structure. Where installing temporary conductors in areas subject to vehicle traffic or mobile construction equipment, ensure the vertical clearance to ground is at least 18 ft. when measured at the lowest point. Ground messenger wires that support power conductors in conformance with the NEC.

5. Protect and when necessary repair any existing electrical conduits uncovered during the construction process in a timely manner and in conformance with the NEC.

GROUND RODS & GROUNDING ELECTRODES

A. MATERIAL INFORMATION

1. Provide and install a grounding electrode at electrical services. Provide ground rods according to DMS 11040 and the plans. Larger diameter or longer length rods may be called for in some specific locations, see the individual plans sheets. Concrete encased grounding electrodes may be called for in specific locations including electrical service, see individual plan sheets.

B. CONSTRUCTION METHODS

1. Furnish auxiliary ground rods for lightning protection and install in soil, concrete, or both, as called for in the plans. For ground rods installed in concrete, ensure the connection of the conductor to the ground rod is readily accessible for inspection or repairs. For ground rods installed in soil, ensure that the upper end is between 2 to 4 in. below finished grade.

2. Do not place ground rods in the same drilled hole as a timber pole.

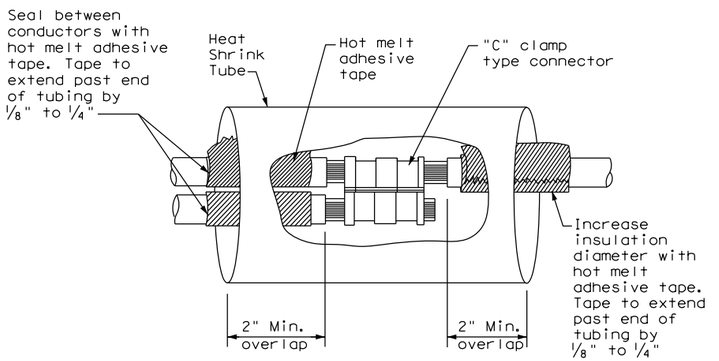
3. Install ground rods so the imprinted part number is at the upper end of the rod.

4. Remove all non-conductive coatings such as concrete splatter from the rod at the clamp location.

5. Route all conductors as short and straight as possible for connection to lightning protection ground rods. When a bend is required, ensure a minimum radius bend of four inches for these conductors.

6. Unless otherwise called for in the plans, protect grounding electrode conductors with non-metallic conduit. When protecting grounding electrode conductors with metal conduit, provide and install a grounding type bushing and properly sized bonding jumper on each end of the metal conduit.

7. Written authorization is required before installing a ground rod in a horizontal trench for rocky soil or a solid rock bottom.



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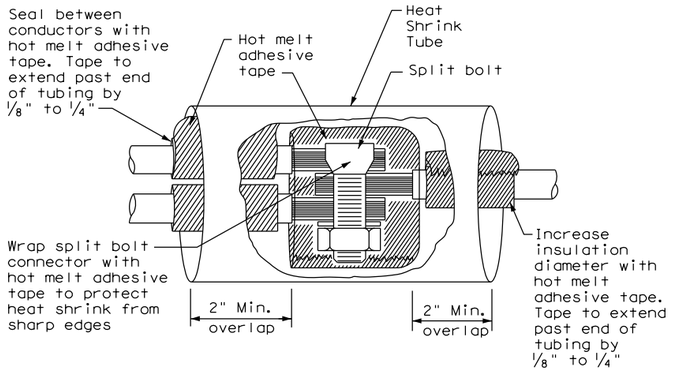
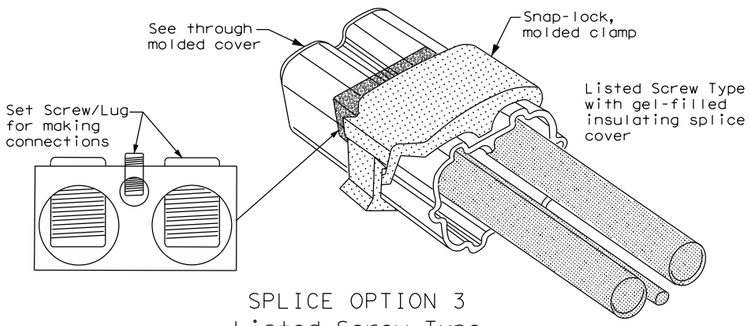
Compression Type



SPLICE OPTION 2
Split Bolt Type



SPLICE OPTION 3
Listed Screw Type

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS CONDUCTORS

ED(3)-14

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	YKM	COLORADO, ETC.		216

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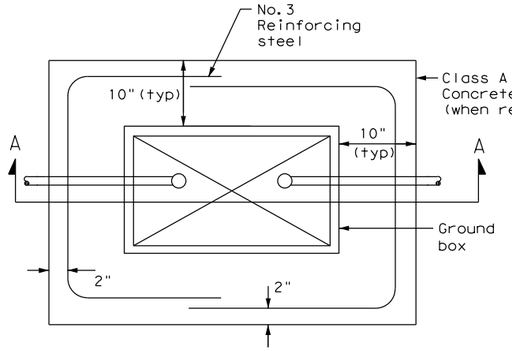
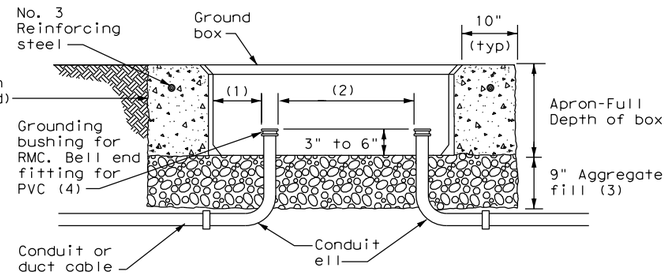


PLAN VIEW



SECTION A - A

APRON FOR GROUND BOX

(1) Uniformly space ends of conduits within the ground box. Position ends of conduits so that ground box walls do not interfere with the installation of grounding bushings or bell end fittings.

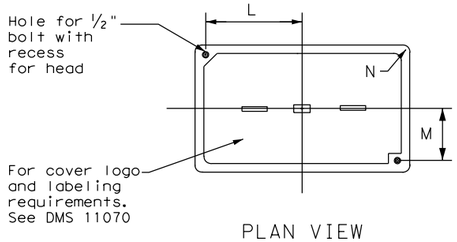
(2) Maintain sufficient space between conduits to allow for proper installation of bushing.

(3) Place aggregate under the box, not in the box. Aggregate should not encroach on the interior volume of the box.

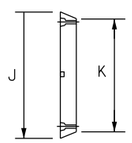
(4) Install a grounding bushing on the upper end of all RMC terminating in a ground box. Ground RMC elbows when any part of the elbow is less than 18 in. below the bottom of the ground box. Install a PVC bushing or bell end fitting on the upper end of all PVC conduits terminating in a ground box.

GROUND BOX DIMENSIONS	
TYPE	OUTSIDE DIMENSIONS (INCHES) (Width x Length X Depth)
A	12 X 23 X 11
B	12 X 23 X 22
C	16 X 29 X 11
D	16 X 29 X 22
E	12 X 23 X 17

GROUND BOX COVER DIMENSIONS								
TYPE	DIMENSIONS (INCHES)							
	H	I	J	K	L	M	N	P
A, B & E	23 1/4	23	13 3/4	13 1/2	9 7/8	5 1/8	1 3/8	2
C & D	30 1/2	30 1/4	17 1/2	17 1/4	13 1/4	6 3/4	1 3/8	2



PLAN VIEW



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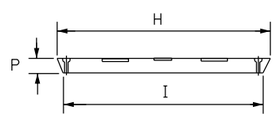

SIDE

GROUND BOX COVER

GROUND BOXES

A. MATERIALS

1. Provide polymer concrete ground boxes measuring 16x30x24 in. (WxLxD) or smaller in accordance with Departmental Material Specification (DMS) 11070 "Ground Boxes" and Item 624 "Ground Boxes."

2. Provide Type A, B, C, D, and E ground boxes as shown in the plans, and as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies," Item 624.

3. Ensure ground box cover is correctly labeled in accordance with DMS 11070.

4. Provide larger ground boxes in accordance with Item 624 and as shown in the plans.

B. CONSTRUCTION METHODS

1. Remove all gravel and dirt from conduit. Cap all conduits prior to placing aggregate and setting ground box. Provide Grade 3 or 4 coarse aggregate as shown on Table 2 of Item 302 "Aggregates for Surface Treatments." Ensure aggregate bed is in place and at least 9 inches deep, prior to setting the ground box. Install ground box on top of aggregate.

2. Cast ground box aprons in place. Reinforcing steel may be field bent. Ensure the depth of concrete for the apron extends from finished grade to the top of the aggregate bed under the box. Ground box aprons, including concrete and reinforcing steel, are subsidiary to ground boxes when called for by descriptive code.

3. Keep bolt holes in the box clear of dirt. Bolt covers down when not working in ground boxes.

4. Install all conduits and ells in a neat and workmanlike manner. Uniformly space conduits so grounding bushings and bell end fittings can easily be installed.

5. Temporarily seal all conduits in the ground box until conductors are installed.

6. Permanently seal conduits immediately after the completion of conductor installation and pull tests. Permanently seal the ends of all conduits with duct seal, expandable foam, or other method as approved. Do not use duct tape as a permanent conduit sealant. Do not use silicone caulk as a sealant.

7. When a ground rod is present in a ground box, bond all equipment grounding conductors together and to the ground rod with listed connectors.

8. When a type B or D ground box is stacked to meet volume requirements, it is allowable to cut an appropriately sized hole for conduit entry in the side wall at least 18 inches below grade.

9. If an existing ground box in the contract has a metal cover, bond the cover to the equipment grounding conductor with a 3 ft. long stranded bonding jumper the same size as the grounding conductor. The bonding jumper is subsidiary to various bid items. Verify existing ground boxes with metal covers are shown on the plans, with notes fully describing the work required.

10. If other ground boxes with metal covers are within the project limits but are not part of the contract, the Engineer may direct the Contractor to bond the metal covers, identifying the specific boxes in writing. This work will be paid for separately.

11. Bond metal ground box covers to the grounding conductor with a tank ground type lug.

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS
GROUND BOXES

ED(4)-14

FILE: ed4-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT October 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		217

71D

DATE: 6/4/2024 6:43:02 PM
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ELECTRICAL SERVICES NOTES

1. Provide new materials. Ensure installation and materials comply with the applicable provisions of the National Electrical Code (NEC) and National Electrical Manufacturers Association (NEMA) standards. Ensure material is Underwriters Laboratories (UL) listed. Provide and install electrical service conduits, conductors, disconnects, contactors, circuit breaker panels, and branch circuit breakers as shown on the Electrical Service Data chart in the plans. Faulty fabrication or poor workmanship in material, equipment, or installation is justification for rejection. Where manufacturers provide warranties and guarantees as a customary trade practice, furnish these to the State.

2. Provide electrical services in accordance with Electrical Details standard sheets, Departmental Material Specification (DMS) 11080 "Electrical Services,"DMS 11081 "Electrical Services-Type A," DMS 11082 "Electrical Services-Type C," DMS 11083 "Electrical Services-Type D," DMS 11084 "Electrical Services-Type T," DMS 11085 "Electrical Services-Pedestal (PS)", and Item 628 "Electrical Services" of the Standard Specifications. Provide electrical service types A, C, and D, as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies," Item 628. Provide other service types as detailed on the plans.

3. Provide all work, materials, services, and any incidentals needed to install a complete electrical service as specified in the plans.

4. Coordinate with the Engineer and the utility provider for metering and compliance with utility requirements. Primary line extensions, connection charges, meter charges, and other charges by the utility company to provide power to the location are paid for in accordance with Item 628. Get approval for the costs associated with these charges prior to engaging the utility company to do the work. Consult with the utility provider to determine costs and requirements, and coordinate the work as approved.

5. The enclosure manufacturer will provide Master Lock Type 2 with brass tumblers keyed #2195 for all custom electrical enclosures. Installing Contractor is to provide Master Lock #2195 Type 2 with brass tumblers for "off the shelf" enclosures. Master Lock #2195 keys and locks become property of the State. Unless otherwise approved, do not energize electrical service equipment until locks are installed.

6. Enclosures with external disconnects that de-energize all equipment inside the enclosure do not need a dead front trim. Protect incoming line terminations from incidental contact as required by the NEC.

7. When galvanized is specified for nuts, screws, bolts or miscellaneous hardware, stainless steel may be used.

8. Provide wiring and electrical components rated for 75°C. Provide red, black, and white colored XHHW service entrance conductors of minimum size 6 American Wire Gauge (AWG). Identify size 6 AWG conductors by continuous color jacket. Identify electrical conductors sized 4 AWG and larger by continuous color jacket or by colored tape. Mark at least 6 inches of the conductor's insulation with half laps of colored tape, when identifying conductors. Ensure each service entrance conductor exits through a separately bushed non-metallic opening in the weatherhead. The lengths of the conductors outside the weatherhead are to be 12 inches minimum, 18 inches maximum, or as required by utility.

9. All electrical service conduit and conductors attached to the electrical service including the riser or the elbow below ground are subsidiary to the electrical service. For an underground utility feed, all service conduit and conductors after the elbow, including service conduit and conductors for the utility pole riser when furnished by the Contractor, will be paid for separately.

10. Provide rigid metal conduit (RMC) for all conduits on service, except for the ½ in. PVC conduit containing the electrical service grounding electrode conductor. Size the service entrance conduit as shown in the plans. Ensure conduit for branch circuit entry to enclosure is the same size as that shown on the layout sheets for branch circuit conduit. Extend all rigid metal conduits a minimum of 6 inches underground and then couple to the type and schedule of the conduit shown on the layout for that particular branch circuit. Install a grounding bushing on the RMC where it terminates in the service enclosure.

11. Use of liquidtight flexible metal conduit (LFMC) is allowed between the meter and service enclosure when they are mounted 90 to 180 degrees to each other. Size the LFMC the same size as service entrance conduit. LFMC must not exceed 3 feet in length. Strap LFMC within 1 foot of each end. LFMC less than 12 inches in length need not be strapped. Each end of LFMC must have a grounding bushing or be terminated with a grounding fitting. The LFMC must contain a grounded (neutral) conductor. Ensure any bend in LFMC never exceeds 180 degrees. A pull test is required on all installed conductors, with at least six inches of free conductor movement demonstrated to the satisfaction of the Engineer.

12. Ensure all mounting hardware and installation details of services conform to utility company specifications.

13. For all electrical service enclosures listed under Item 628 on the MPL, the UL 508 enclosure manufacturers will prepare and submit a schematic drawing unique to each service. Before shipment to the job site, place the applicable laminated schematic drawings and the laminated plan sheet showing the electrical service data chart used to build the enclosure in the enclosure's data pocket. The installing contractor will copy and laminate the actual project plan sheets detailing all equipment and branch circuits supplied by that service. The laminated plan sheets are to be placed in the service enclosure's document pocket. Reduce 11 in. x 17 in. plan sheets to 8 ½ in. x 11 in. before laminating. If the installation differs from the plan sheets, the installing contractor is to redline plan sheets before laminating.

14. When providing an "Off The Shelf" Type D or Type T service, provide laminated plan sheets detailing equipment and branch circuits supplied by that service. Reduce 11 in. x 17 in. plan sheets to 8 ½ in. x 11 in before laminating. Deliver these drawings before completion of the work to the Engineer, instead of placing in enclosure that has no door pocket.

15. Do not install conduit in the back wall of a service enclosure where it would penetrate the equipment mounting panel inside the enclosure. Provide grounding bushings on all metal conduits, and terminate bonding jumpers to grounding bus. Grounding bushings are not required when the end of the metal conduit is fitted with a conduit sealing hub or threaded boss, such as a meter base hub.

SERVICE ASSEMBLY ENCLOSURE

1. Provide threaded hub for all conduit entries into the top of enclosure.

2. Type galvanized steel (GS) enclosures may be used for Type C panelboards and for Type D and T services that do not use an enclosure mounted photocell or lighting contactor. Provide GS enclosures in accordance with DMS 11080, 11082, 11083, and 11084.

3. Provide aluminum (AL) and stainless steel (SS) enclosures for Types A, C, and D in accordance with DMS 11080, 11081, 11082, 11083, and 11084. Do not paint stainless steel.

4. Provide pedestal service (PS) enclosures in accordance with ED(9) and DMS 11080 and 11085. Do not provide GS pedestal services. If GS is shown in the PS descriptive code, provide an AL enclosure.

MAIN DISCONNECT & BRANCH CIRCUIT BREAKERS

1. Field drill flange-mounted remote operator handle if needed, to ensure handle is lockable in both the "On" and "Off" positions.

2. When the utility company provides a transformer larger than 50 KVA, verify that the available fault current is less than the circuit breaker's ampere interrupting capacity (AIC) rating and provide documentation from the electric utility provider to the Engineer.

PHOTOELECTRIC CONTROL

1. Provide photocell as listed on the MPL. Move, adjust, or shield the photocell from stray or ambient night time light to ensure proper operation. Mount photocell facing north when practical. Mount top of pole photocells as shown on Top Mounted Photocell Detail.

* ELECTRICAL SERVICE DATA

Elec. Service ID	Plan Sheet Number	Electrical Service Description	Service Conduit **Size	Service Conductors No./Size	Safety Switch Amps	Main Ckt. Bkr. Pole/Amps	Two-Pole Contractor Amps	Panelbd/ Loadcenter Amp Rating	Branch Circuit ID	Branch Ckt. Bkr. Pole/Amps	Branch Circuit Amps	KVA Load
SB 183	289	ELC SRV TY A 240/480 100(SS)AL(E)SF(U)	2"	3/#2	100	2P/100	100	N/A	Lighting NB	2P/40	26	28.1
									Lighting SB	2P/40	25	
									Underpass	1P/20	15	
NB Access	30	ELC SRV TY D 120/240 060(NS)SS(E)TS(O)	1 ¼"	3/#6	N/A	2P/60		100	Sig. Controller	1P/30	23	5.3
							30		Luminaires	2P/20	9	
									CCTV	1P/20	3	
2nd & Main	58	ELC SRV TY T 120/240 000(NS)GS(N)SP(O)	1 ¼"	3/#6	N/A	N/A	N/A	70	Flashing Beacon 1	1P/20	4	1.0
									Flashing Beacon 2	1P/20	4	

* Example only, not for construction. All new electrical services must have electrical service data chart specific to that service as shown in the plans.

** Verify service conduit size with utility. Size may change due to utility meter requirements. Ensure conduit size meets the National ELectrical Code.

EXPLANATION OF ELECTRICAL SERVICE DESCRIPTIVE CODE

ELEC SERV TY X XXX/XXX XXX (XX) XX (X) XX (X)

Schematic Type

Service Voltage V / V

Disconnect Amp Rating
000 indicates main lug only/
Typically Type T

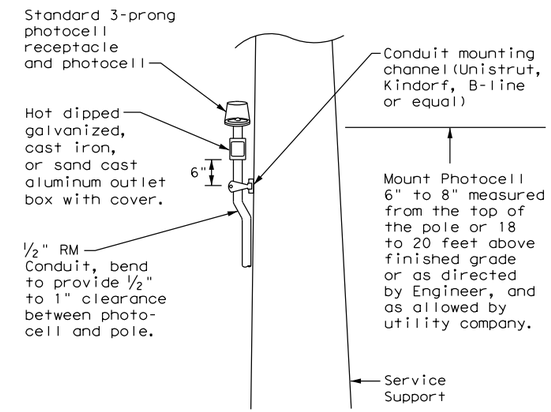
(SS)= Safety Switch Ahead of Meter-Check with Utility
(NS)= No safety Switch Ahead of Meter-Check with Utility

Enclosure Type
GS= Galvanized steel("off the shelf")
SS= Stainless steel(Custom Enclosure)See MPL
AL= Aluminum (Custom Enclosure)See MPL

Photocell Mounting Location
(E)= Inside Service/Enclosure Mounted
(T)= Top of pole
(L)= Luminaire mounted
(N)= None/No Photocell or Lighting Contactor Required

Service Support Type
GC= Granite concrete
OC= Other concrete
TP= Timber pole
SP= Steel pole
SF= Steel frame
OT= Pole by others or paid for separately
EX= Existing pole
TS= Service on traffic signal pole
PS= Pedestal Service

O= Overhead Service Feed from Utility
U= Underground Service Feed from Utility



TOP MOUNTED PHOTOCELL

Install conduit strap maximum 3 feet from box. 5 foot maximum spacing between straps supporting conduit.

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS SERVICE NOTES & DATA

ED(5)-14

FILE: ed5-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT October 2014	CONT	SECT	JOB	HIGHWAY
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	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		218

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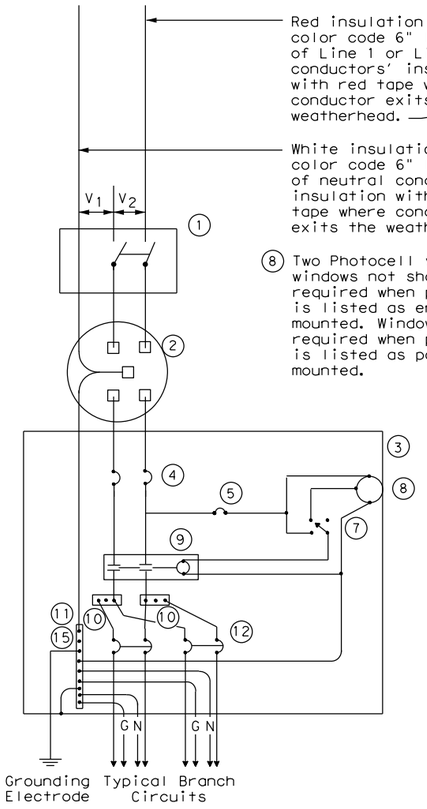
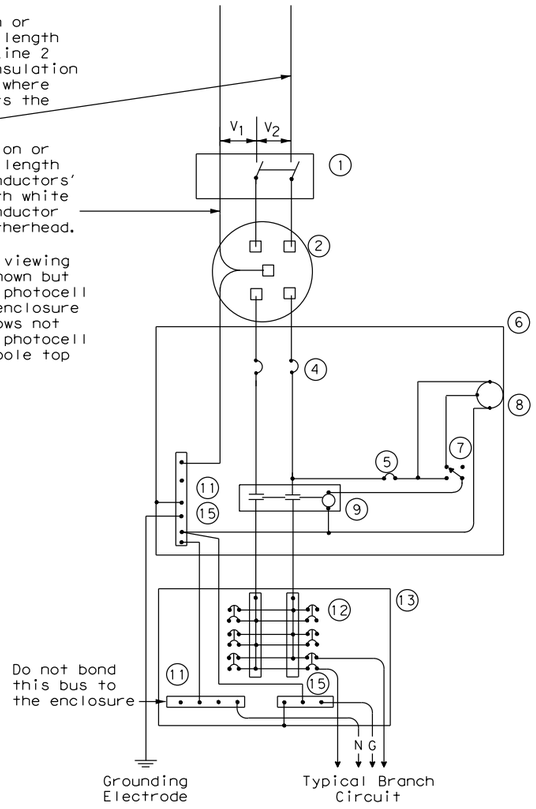


SCHEMATIC TYPE A
THREE WIRE



SCHEMATIC TYPE C
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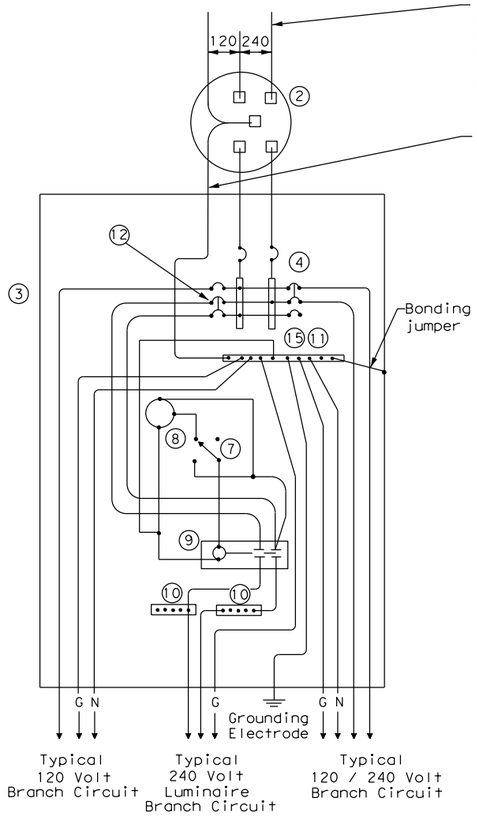
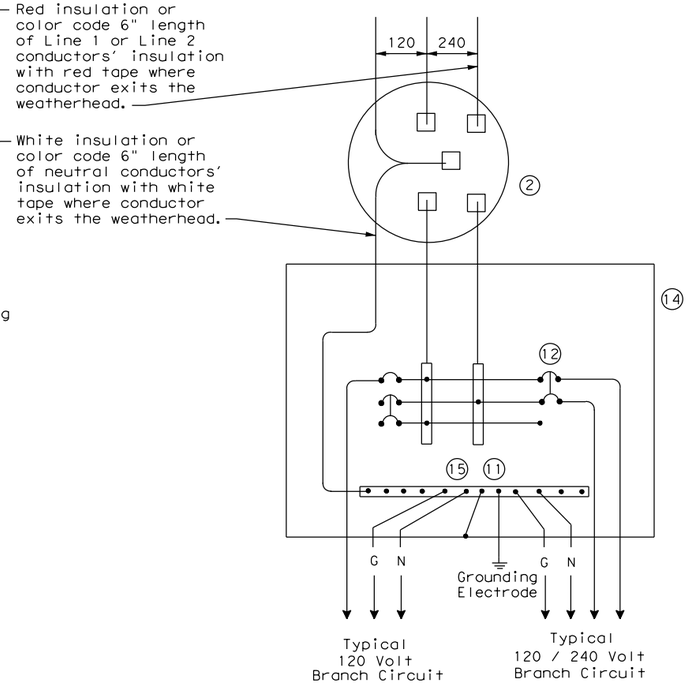


SCHEMATIC TYPE D - CUSTOM
120/240 VOLTS - THREE WIRE



SCHEMATIC TYPE T
120/240 VOLTS - THREE WIRE

Galvanized steel-"Buy Off The Shelf" only. When required install photocell top of the pole or on luminaire only, no lighting contractor will be installed.

WIRING LEGEND	
———	Power Wiring
———	Control Wiring
—N—	Neutral Conductor
—G—	Equipment grounding conductor-always required

SCHEMATIC LEGEND	
1	Safety Switch (when required)
2	Meter (when required-verify with electric utility provider)
3	Service Assembly Enclosure
4	Main Disconnect Breaker (See Electrical Service Data)
5	Circuit Breaker, 15 Amp (Control Circuit)
6	Auxiliary Enclosure
7	Control Station ("H-O-A" Switch)
8	Photo Electric Control (enclosure-mounted shown)
9	Lighting Contactor
10	Power Distribution Terminal Blocks
11	Neutral Bus
12	Branch Circuit Breaker (See Electrical Service Data)
13	Separate Circuit Breaker Panelboard
14	Load Center
15	Ground Bus

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS SERVICE ENCLOSURE AND NOTES

ED(6)-14

FILE: ed6-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT October 2014	CONT	SECT	JOB	HIGHWAY
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	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		219

71F

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SUPPORT TYPE STEEL POLE (SP) AND STEEL FRAME (SF)

1. Provide steel pole and steel frame supports as per TxDOT Departmental Material Specification (DMS)11080 "Electrical Services." Mount all equipment and conduit on 12 gauge galvanized steel or stainless steel channel strut, 1 ½ in. or 1 ⅝ in. wide by 1 in. up to 3 ¾ in. deep Unistrut, Kindorf, B-line or equal. Bolt or weld all channel and hardware to vertical members as approved. Do not stack channel. File smooth and paint field cut ends of all channel with zinc-rich paint before installing.

2. Provide poles for overhead service with an eyebolt or similar fitting for attachment of the service drop to the pole in conformance with the electric utility provider's specifications.

3. Provide and install galvanized ¾ in. x 18 in. x 4 in. (dia. x length x hook length) anchor bolts for underground service supports. Provide and install galvanized ¾ in. x 56 in. x 4 in. anchor bolts for overhead service supports. Ensure anchor bolts have 3 in of thread, with 3 ¼ in. to 3 ½ in. of the exposed anchor bolt projecting above finished foundation. Provide and install leveling nuts for all anchor bolts.

4. Bond one of the anchor bolts to the rebar cage with 6 AWG bare stranded copper conductor. Use listed mechanical connectors rated for embedment in concrete. See Inset B.

5. Furnish and install rigid metallic ells in all steel pole and steel frame foundations for all conduits entering the service from underground.

6. Use class C concrete for foundations. Ensure reinforcing steel is Grade 60 with 3" of unobstructed concrete cover.

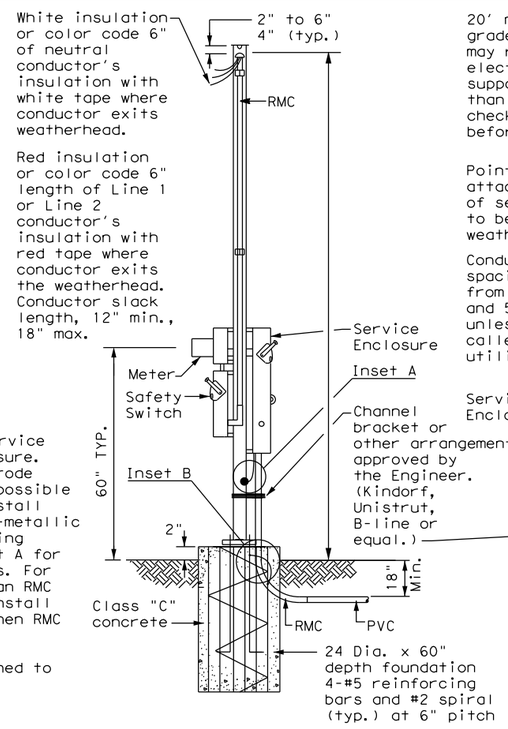
7. Drill and tap steel poles and frames for ½ in. X 13 UNC tank ground fitting. For steel pole service supports, provide and install tank ground fitting 4 in. to 6 in. below electrical service enclosure. Provide properly sized hole through the bottom of the enclosure for the service grounding electrode conductor. Ensure electrical service grounding electrode conductor is as short and straight as possible from the enclosure to the tank ground fitting. For steel frame service supports, provide and install tank ground fitting on steel frame post. Install service grounding electrode conductor in a non-metallic conduit or tubing from the enclosure to the steel frame post. Connect electrical service grounding electrode conductor to the tank ground fitting. See steel frame and steel pole details and Inset A for more information. Size service entrance conduit and branch circuit conduit as shown in the plans. For underground conduit runs from the electrical service, extend RMC from the service enclosure to an RMC elbow, and then connect the schedule type and size of conduit shown in the plans. Provide and install grounding bushings where RMC terminates in the enclosure. Grounding bushings are not required when RMC is fitted into a sealing hub or threaded boss.

8. If Steel pole or frame is painted, bond each separate painted piece with a bonding jumper attached to a tapped hole.

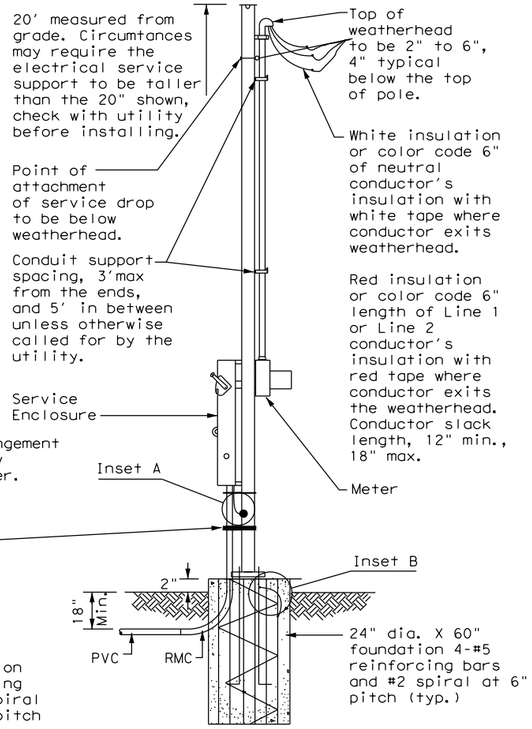
9. Provide ¼" - 20 machine screws for bonding. Do not use sheet metal screws. Remove all non-conductive material at contact points. Terminate bonding jumpers with listed devices. Install minimum size 6 AWG stranded copper bonding jumpers. Make up all threaded bonding connections wrench tight.

10. Avoid contact of the service drop and service entrance conductors with the metal pole to prevent abrasion of the insulated conductors.

11. Shop drawings are not required for service support structure unless specifically stated elsewhere or directed by the Engineer.

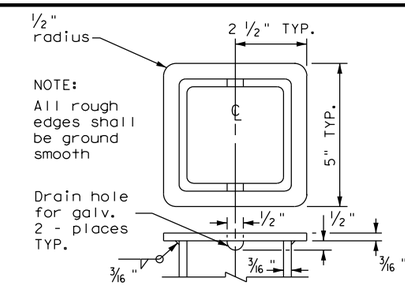


WITH SAFETY SWITCH

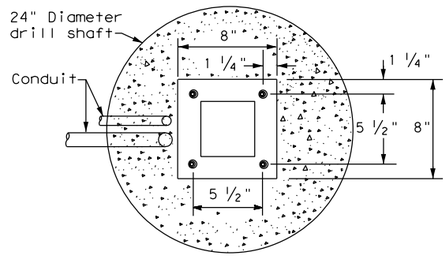


WITHOUT SAFETY SWITCH

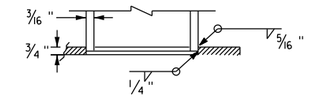
SERVICE SUPPORT TYPE SP (O) - OVERHEAD SERVICE



POLE TOP PLATE

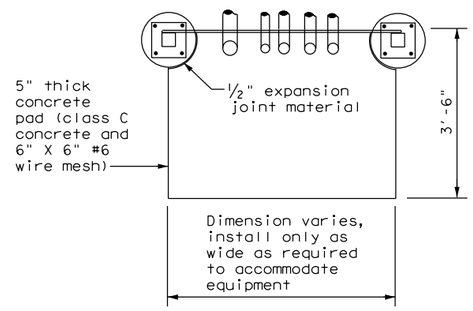


BASE PLATE DETAIL



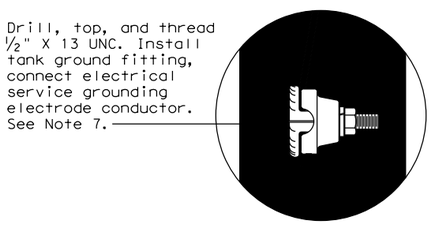
BOTTOM OF POLE

SERVICE SUPPORT TYPE SF & SP



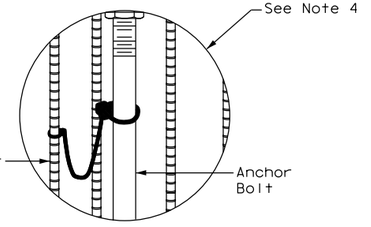
TOP VIEW

SERVICE SUPPORT TY SF (O) & SF (U)

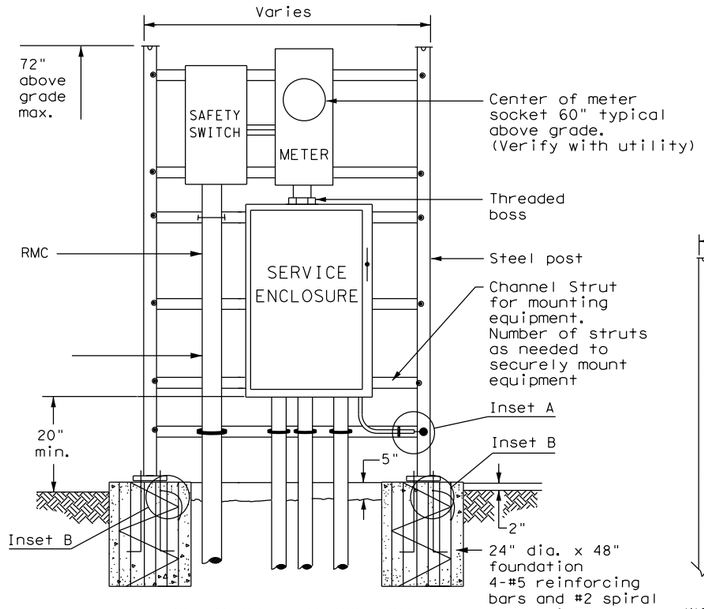


FRONT VIEW

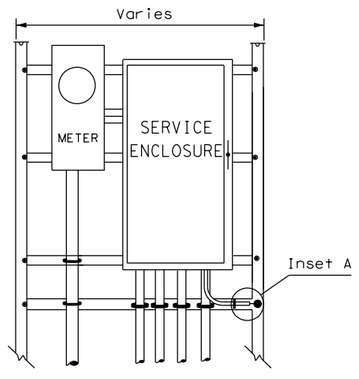
INSET A



INSET B

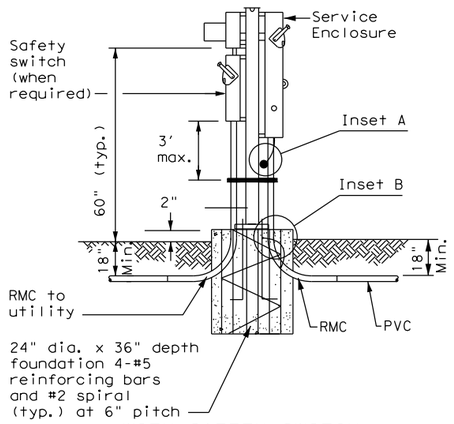


WITH SAFETY SWITCH
FRONT VIEW

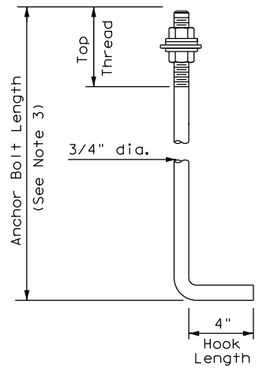


WITHOUT SAFETY SWITCH

SERVICE SUPPORT TYPE SF(U) - UNDERGROUND SERVICE



WITH SAFETY SWITCH



HOOKED ANCHOR DETAIL

SERVICE SUPPORT TYPE SP(U) - UNDERGROUND SERVICE

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS SERVICE SUPPORT TYPES SF & SP

ED(7)-14

FILE: ed7-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	0026	04	048, ETC.	US 90,ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		220

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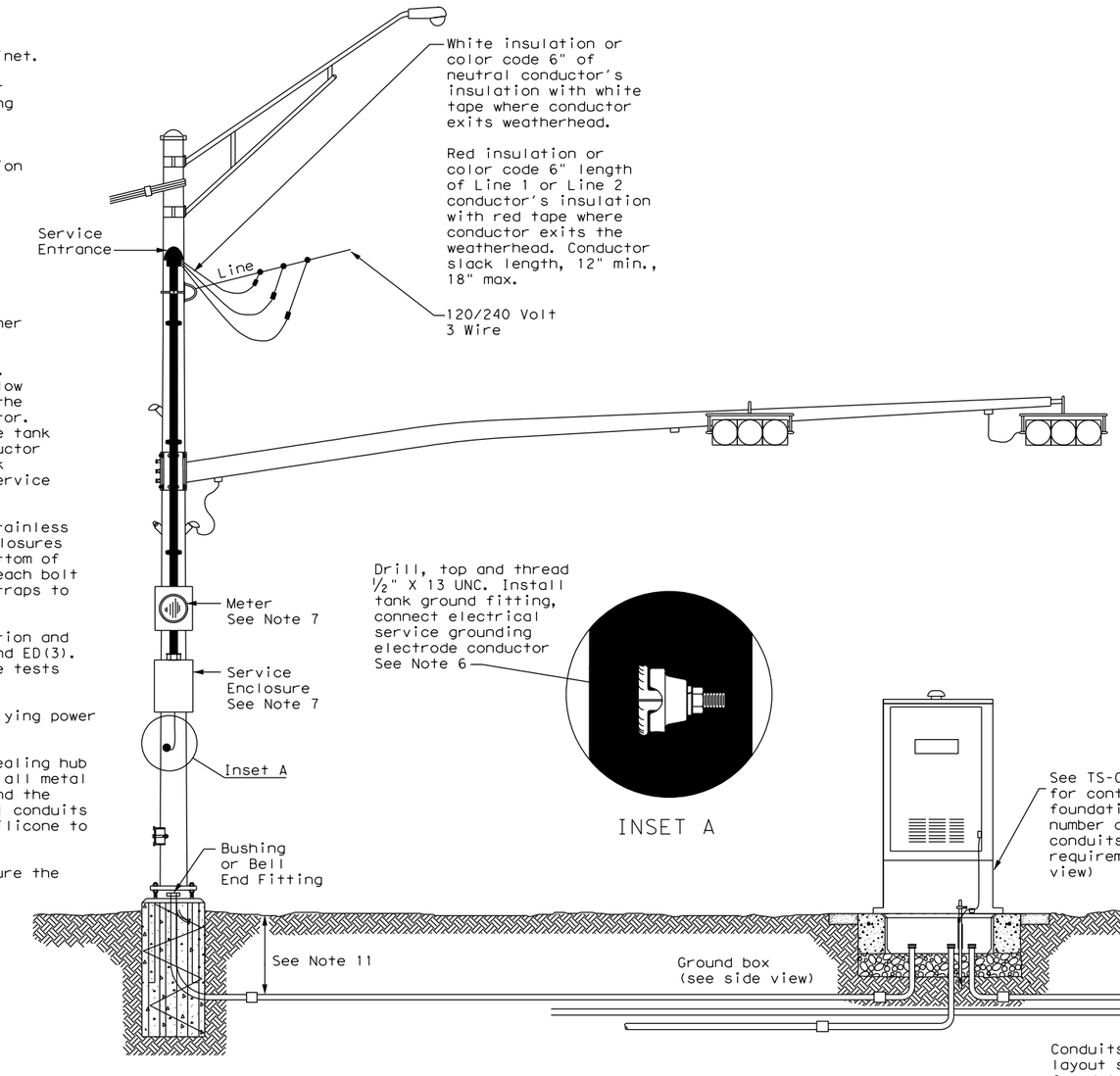
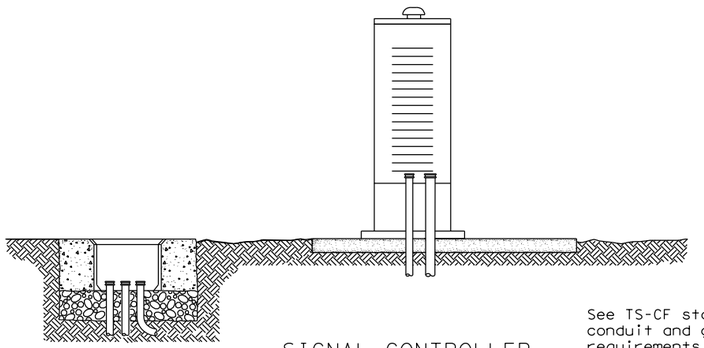
TRAFFIC SIGNAL NOTES

1. Do not pass luminaire conductors through the signal controller cabinet.
2. Include an equipment grounding conductor in all conduits throughout the electrical system. Bond all exposed metal parts to the grounding conductor.
3. Provide roadway luminaires, when required, in accordance with the material and construction sections of Item 610, "Roadway Illumination Assemblies," except for performance testing of luminaires. Test installed roadway luminaires for proper operation as a part of the associated traffic signal system test.
4. If internally illuminated street name signs are approved for use, ground the fixture to the pole with a 12 AWG green XHHW conductor.
5. Bond anchor bolts to rebar cage in two locations using #3 bars or 6 AWG stranded copper conductors. Use listed mechanical connectors rated for embedment in concrete. See TXDOT standard TS-FD for further details.
6. Drill and tap signal poles for ½ in. X 13 UNC tank ground fitting. Provide and install tank ground fitting 4 in. to 6 in. directly below electrical service enclosure. Provide properly sized hole through the bottom of the enclosure for the service grounding electrode conductor. Connect the electrical service grounding electrode conductor to the tank ground fitting. Ensure electrical service grounding electrode conductor is as short and straight as possible from the enclosure to the tank ground fitting. See Inset A detail for further information. Size service entrance conduit and branch circuit conduit as shown in the plans.
7. Mount electrical service enclosure and meter to signal pole with stainless steel bands. Ensure bands are a minimum width of ¾ in. Secure enclosures to bands using two-bolt brackets. Install brackets near top and bottom of each enclosure. Install properly sized stainless steel washers on each bolt in the enclosure. Band or drill and tap properly sized stand-off straps to signal pole for attaching conduit.
8. Conduct pull tests and insulation resistance tests on all illumination and power conductors as required in Item 620 "Electrical Conductors" and ED(3). To prevent electronics damage, do not conduct insulation resistance tests on traffic signal cables after termination.
9. Lock all enclosures and bolt down all ground box covers before applying power to the signal installation.
10. Terminate conduits entering the top of enclosures with a conduit-sealing hub or threaded boss such as meter hub. Install a grounding bushing on all metal conduits not connected to conduit-sealing hub or threaded boss. Bond the grounding bushing to the ground bus with a bonding jumper. Seal all conduits entering enclosures with duct seal or expanding foam. Do not use silicone to seal conduit ends.
11. For all conduits, ensure the burial depth is a minimum of 18". Ensure the minimum burial depth for conduit placed under a roadway is 24".



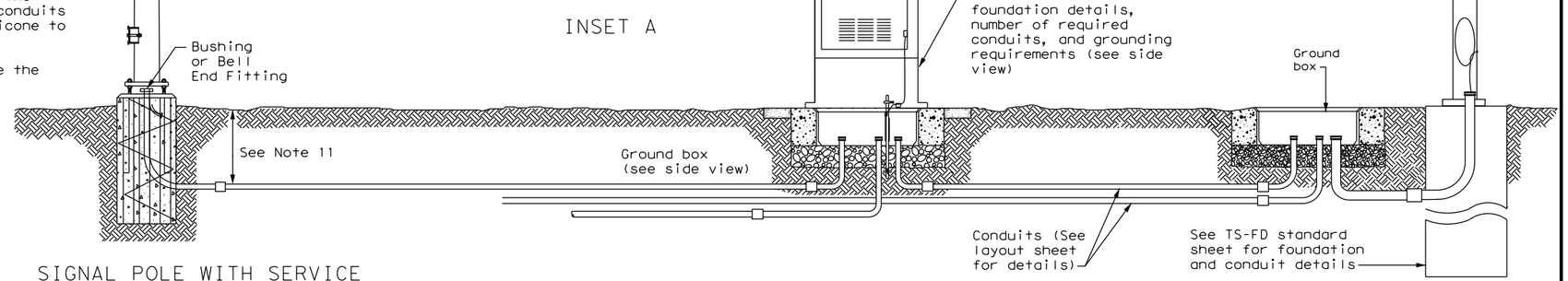
SIGNAL POLE WITH SERVICE

Type T electrical service mounted on signal pole shown as an example. See electrical details, layout sheets, and electrical service data chart for additional details.



SIGNAL CONTROLLER SIDE VIEW

See TS-CF standard for conduit and grounding requirements. See layout sheets for ground box locations and any additional conduits that are required.



SIGNAL CONTROLLER FRONT VIEW

SIGNAL POLE

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS TYPICAL TRAFFIC SIGNAL SYSTEM DETAILS

ED(8)-14

FILE: ed8-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2014	CONT	SECT	JOB	HIGHWAY
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PEDESTAL SERVICE NOTES

1. Manufacture pedestal electrical services in accordance with Departmental Material Specifications (DMS)11080 "Electrical Services", 11085 "Electrical Services-Pedestal (PS)" and Item 628 "Electrical Services. "Provide pedestal electrical services as listed on the Material Producers list (MPL) on the Department's web site under "Roadway Illumination and Electrical Supplies," Item 628. Ensure all mounting hardware and installation details of services meet utility company specifications. Contact the local utility company for approval of pedestal details prior to installing the electrical pedestal service. Submit any changes required by the utility company prior to manufacturing the pedestal enclosure.

2. When a meter socket is required, provide a socket with a minimum 100 amp rating that complies with local utility requirements.

3. Provide Class A or C concrete for pedestal service foundations in accordance with Item 420, "Concrete Substructures," except that concrete will not be paid for directly but is considered subsidiary to Item 628.

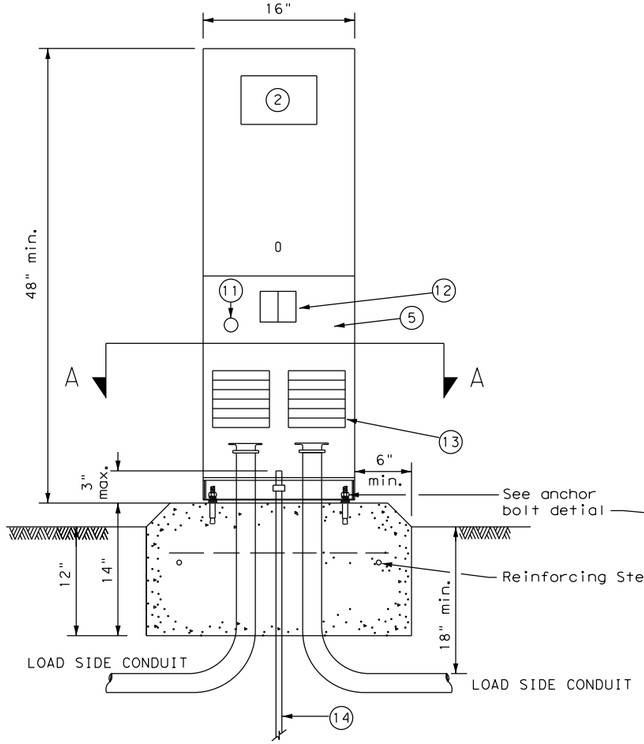
4. Provide #4 reinforcing steel for foundations in accordance with Item 440, "Reinforcement for Concrete."

5. Install ½ in. X 2 ⅛ in. minimum length concrete single expansion type anchors for mounting pedestal enclosure to foundation. Anchor location to match mounting holes in each corner of enclosure. Secure each of the four corners of the pedestal enclosure to the anchors in the foundation with a ½ in. galvanized or stainless steel machine thread bolt, a properly sized locknut and a flat washer.

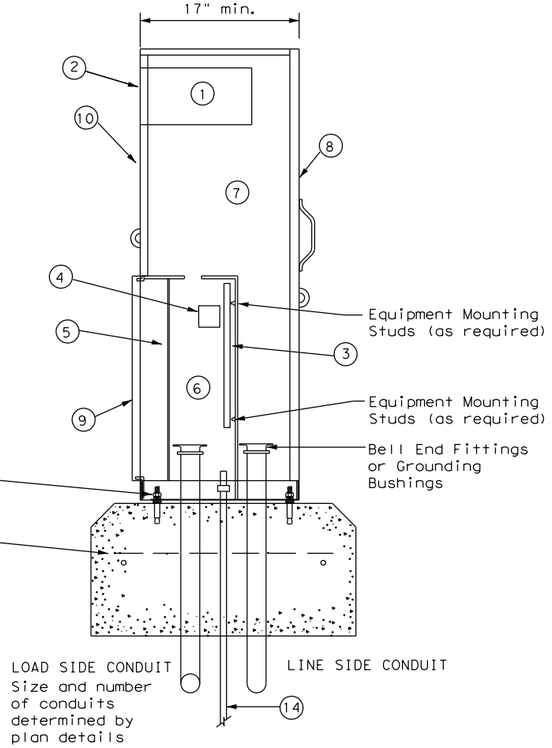
6. Finish top of concrete foundation in a neat and workmanlike manner. If leveling washers are used, ensure no more than ⅛ in. gap at any corner. Do not exceed a maximum dip or rise in the foundation of ⅛ in. per foot. When properly installed, ensure the top of the service enclosure is level front to back and side to side within ¼ in. Repair rocking or movement of the service enclosure at no additional cost to the department.

7. Do not use liquidtight flexible metal conduit (LFMC) on pedestal type services.

8. Ensure all elbows in the foundation are sized as per utility provider's conduit requirements for underground conduit and feeders. PVC extensions may be installed provided the ends of the rigid metal conduits are more than 2 in. below the top of the concrete foundation. Where extension conduits are metal, grounding bushings must be installed with a bonding jumper properly terminated.

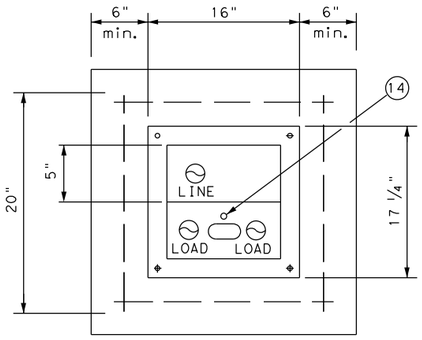


FRONT VIEW

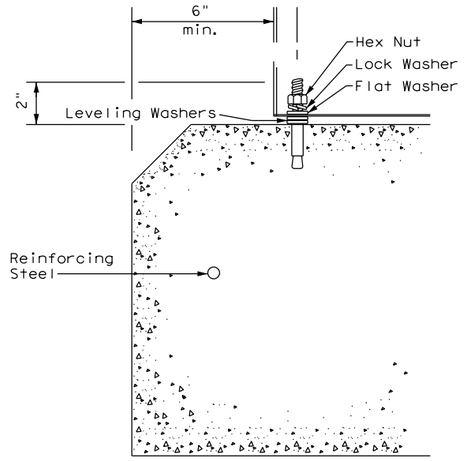


SIDE VIEW

TYPE C shown, TYPE A similar except that TYPE A shall have individual circuit breakers (CB) mounted on an equipment mounting panel. CB Handles shall protrude through hinged deadfront trim.



SECTION A-A



ANCHOR BOLT DETAIL

LEGEND	
1	Meter Socket, (when required)
2	Meter Socket Window, (when required)
3	Equipment Mounting Panel
4	Photo Electric Control Window, (When required)
5	Hinged Deadfront Trim
6	Load Side Conduit Trim
7	Line Side Conduit Area
8	Utility Access Door, with handle
9	Pedestal Door
10	Hinged Meter Access
11	Control Station (H-O-A Switch)
12	Main Disconnect
13	Branch Circuit Breakers
14	Copper Clad Ground Rod - 5/8" X 10'

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS
ELECTRICAL SERVICE SUPPORT
PEDESTAL SERVICE TYPE PS
ED(9)-14

FILE: ed9-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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TIMBER POLE(TP)SERVICE SUPPORT NOTES

1. Ensure electrical service support is a class 5 treated timber pole as per Item 627 "Treated Timber Poles." Embed timber pole to depth required in Item 627.
2. Conduit and electrical conductors attached to the electrical service pole and underground within 12 in. of service pole are not paid for directly but are subsidiary to the electrial service.
3. Install pole-top mounted photocell (T) on north side of pole, or in service enclosure (E) as required. See Electrical Service Data chart in plan set.
4. Gain pole as required to provide flat surface for each channel. Gain timber pole to 5/8 in. max. depth and 1 7/8 in. max. height. Gain pole in a neat and workmanlike manner.
5. Mount meter and service equipment on stainless steel or galvanized channel (Unistrut, Kindorf, or equal). Provide channel sized 1 in. to 3 3/4 in. maximum depth, and 1½ in. to 1⅝ in. maximum width. File smooth the cut ends of galvanized channel and paint with zinc rich paint before installing on pole. Secure each channel section to timber pole with two galvanized or SS lag bolts, ¼ in. minimum diameter by 1½ in. minimum length. Use a galvanized or SS flat washer on each lag bolt. Do not stack channel.
6. When excess length must be trimmed from poles, trim from the top end only.

(1) Class 5 pole, height as required

(2) Service drop from utility company (attached below weatherhead)

(3) Service conduit (RMC)and service entrance conductors - One Red, One Black, One White (See Electrical Service Data)

(4) Safety switch (when required)

(5) Meter (when required)

(6) Service enclosure

(7) 6 AWG bare grounding electrode conductor in ½ in. PVC to ground rod - extend ½ in. PVC 6 in. underground.

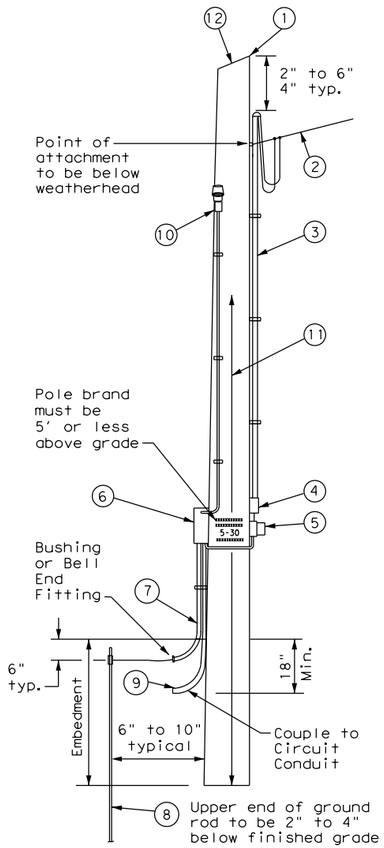
(8) ⅝ in. x 8 ft. Copper clad ground rod - drive ground rod to a depth of 2 in. to 4 in. below grade.

(9) RMC same size as branch circuit conduit.

(10) See pole-top mounted photocell detail on ED(5).

(11) When required by the serving utility provide bare 6 AWG copper conductor. Run wire from pole top to butt wrap or copper butt plate. Protect conductor with non-conductive material to a height of 8 ft. above finished grade.

(12) When required by utility, cut top of pole at an angle to enhance rain run off.

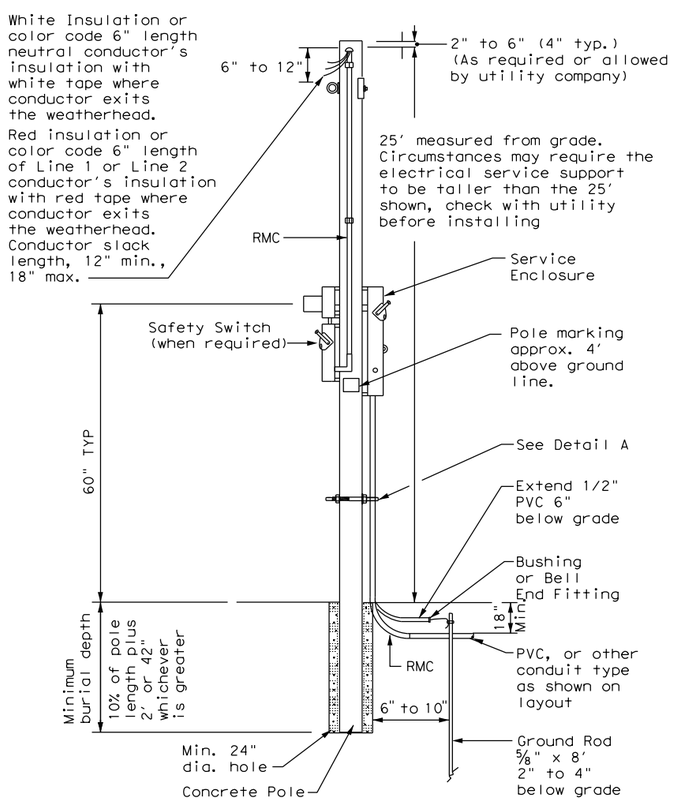


SERVICE SUPPORT TYPE TP (O)

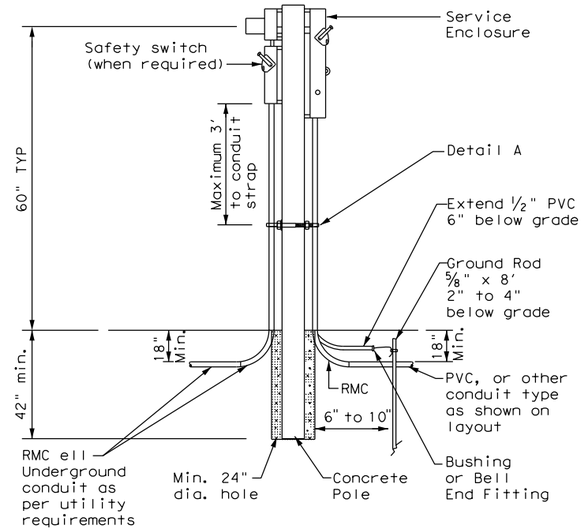
GRANITE CONCRETE(GC)& OTHER CONCRETE(OC)NOTES

Ensure electrical service support structures bid as type Granite Concrete (GC) or Other Concrete (OC) meet the following requirements.

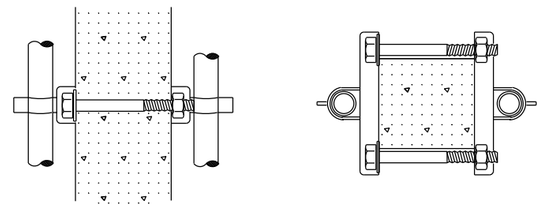
1. Provide GC and OC poles that meet the requirements of DMS 11080 "Electrical Services."
2. Provide prestressed concrete poles suitable for direct embedment into the ground without special foundations.
3. Verify poles are marked as required on DMS 11080. Location of marking should be approximately 4' above final grade. Use the two-point pickup locations when handling pole in horizontal position, and one-point pickup location for use in raising the pole to a vertical position. These marks are small but conspicuous.
4. Embed poles 42 in. or 10% of the length plus 2 ft., whichever is greater.
5. Ensure all installation details of services are in accordance with utility company specifications.
6. Install a one point rack or eye bolt bracket 6 inches to 12 inches below the weatherhead as an overhead service drop anchoring point for the electric utility.
7. Furnish and install galvanized or stainless steel channel strut 1 ½ in. or 1 ⅝ in. wide by 1 in. up to 3 ¾ in. deep (Unistrut, Kindorf, B-line or equal). Attach channel strut with stainless steel concrete anchors (max. 1" depth), square U-bolts or back to back channel strut with long bolts, or other secure mounting as approved by the Engineer. Ensure bolts are galvanized in accordance with ASTM A153. Do not stack channel struts.
8. Backfill the holes thoroughly by tamping in 6 in. lifts. After tamping to grade, place additional backfill material in a 6 inch high cone around the pole to allow for settling. Use material equal in composition and density to the surrounding area. Backfilling will not be paid for directly but is subsidiary to various bid items.



CONCRETE SERVICE SUPPORT
Overhead(O)



CONCRETE SERVICE SUPPORT
Underground(U)



DETAIL A

See Note 7. Before installing channel that has been cut, file sharp edges and paint with zinc-rich paint. Ensure there is no paint splatter on the pole.

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS SERVICE SUPPORT TYPES GC, OC, & TP

ED(10)-14

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DUCT CABLE & HDPE CONDUIT NOTES

1. Provide duct cable in accordance with Departmental Material Specification (DMS) 11060 "Duct Cable" and Item 622 "Duct Cable." Provide duct cable as listed on the Material Producer List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies" Item 622.

2. Provide High-Density Polyethylene (HDPE) conduit in accordance with DMS 11060 and Item 618, "Conduit." Provide HDPE as listed on the MPL on the Department web site under "Roadway Illumination and Electrical Supplies," Item 618.

3. Supply duct cable with a minimum 2 in. diameter, unless otherwise shown in the plans. Provide duct cable and HDPE conduit as shown by descriptive code or on the plans. Bend duct cable and HDPE conduit as recommended by the manufacturer, with a minimum bending radius of 26 in. for 2 in. duct. Follow manufacturers' recommendations when handling duct cable and HDPE conduit reels and during installation of duct cable and HDPE conduit.

4. Do not splice conductors within duct cable or HDPE conduit. Couple duct cable and HDPE entering a ground box or foundation to a PVC elbow. When galvanized steel RMC elbows are called for in the plans and any portion of the RMC elbow is buried less than 18" from possible contact, ground the RMC elbow.

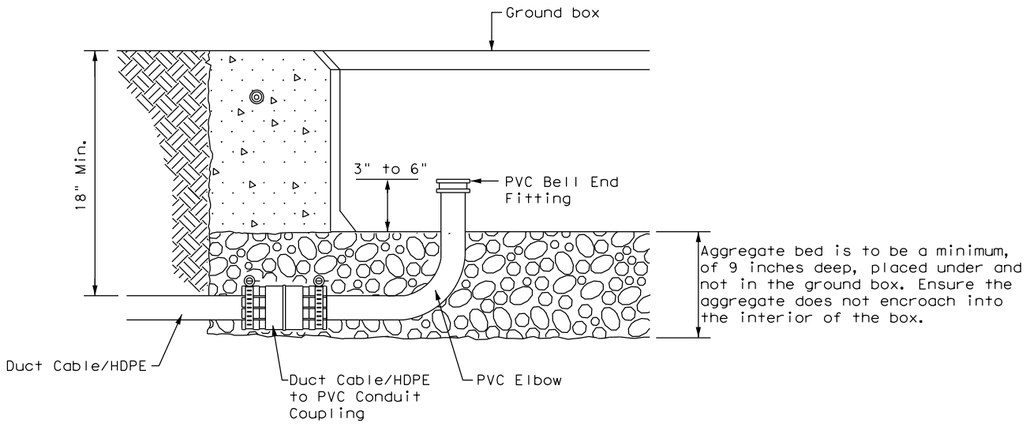
5. Furnish and install duct cable with factory installed conductors, sized as shown in the plans and as required by the National Electrical Code (NEC). The NEC contains specific requirements for duct cable in Article, "Nonmetallic Underground Conduit with Conductors: Type NUCC."

6. When conduit casing is called for in the plans, extend duct cable or HDPE conduit through the conduit casing in one continuous length without connection to the casing.

7. Seal the ends of duct cable or HDPE conduit with duct seal, expandable foam, or other approved method after completing the pull tests required by Item 622.

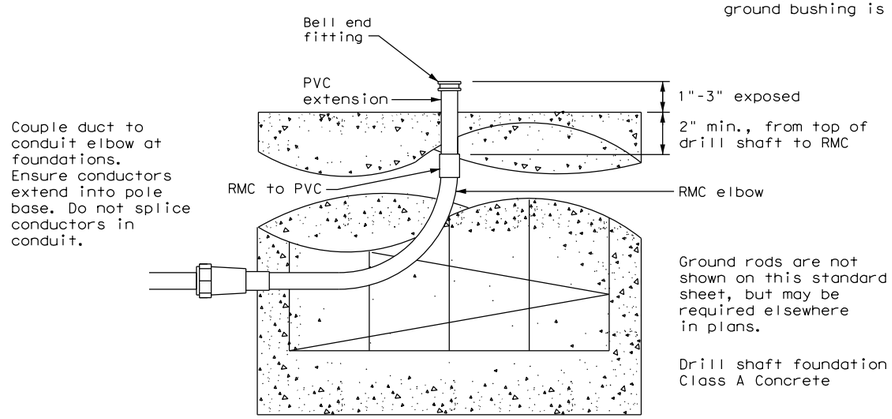
8. Provide minimum cover of 24 in. under roadways, 18 in. in other locations, or as shown on the plans.

9. Furnish and install listed fittings to couple duct cable or HDPE conduit to other types of conduit. Duct cable and HDPE conduit may be field-threaded and spliced with PVC or RMC threaded couplings; connected with listed tie-wrap fittings; connected using listed coupling made of HDPE with stainless steel external banding clamps and locking rings; connected with approved electrofusion conduit couplings; or connected using an approved chemical fusion method using an epoxy or adhesive specifically designed for HDPE couplings and connectors all installed in accordance with their manufacturer's instructions. Do not use PVC glue on HDPE. Do not use water pipe fittings, or connect conduit with heat shrink tubing.

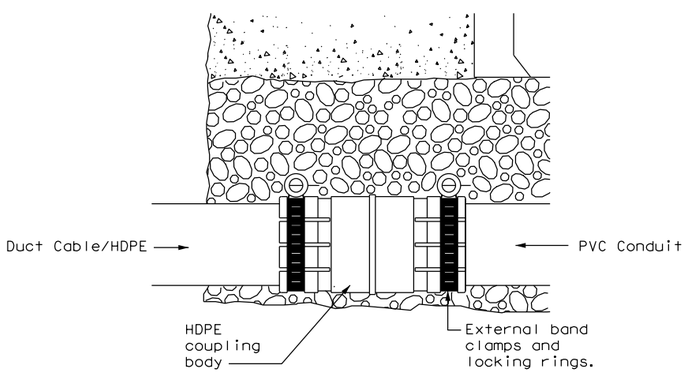


DUCT CABLE/HDPE AT GROUND BOX

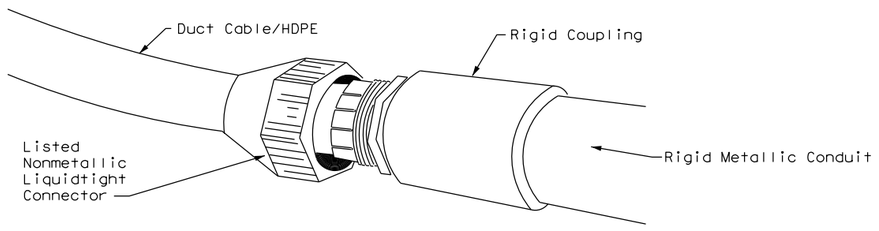
When the upper end of an RMC Ell does not enter the ground box, it may be extended with a SCH-40 PVC conduit nipple and bell end, provided there is a minimum of 18" of cover over all parts of the elbow. If not, a rigid extension and ground bushing is required.



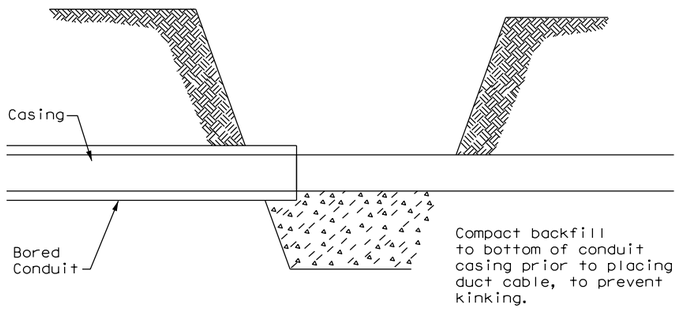
DUCT CABLE / HDPE AT FOUNDATION



DUCT CABLE/HDPE TO PVC



DUCT CABLE/HDPE TO RMC



BORE PIT DETAIL

Texas Department of Transportation

Traffic Operations Division Standard

ELECTRICAL DETAILS DUCT CABLE/ HDPE CONDUIT

ED(11)-14

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BATTERY BOX GROUND BOXES NOTES

A. MATERIALS

1. Provide polymer concrete or fiberglass reinforced plastic (FRP) battery box ground box and cover in accordance with Departmental Material Specification (DMS) 11071 "Battery Box Ground Boxes." Battery box will accommodate up to 4 batteries, each measuring 8 in. x 13.5 in. x 10 in. (W x L x D). Label battery box ground box cover in accordance with DMS 11071.

2. Supply a marine grade batteries with covers. Secure the marine grade batteries with covers to the stainless steel rack in the bottom of the ground box with tie down straps.

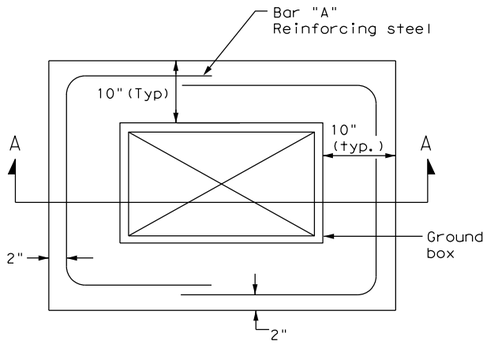
B. CONSTRUCTION METHODS

1. Ensure conduit entry will not interfere with placement of the batteries in the battery box ground box.

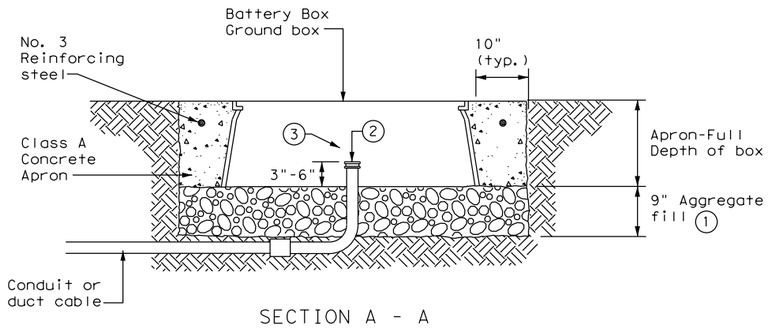
2. Remove all gravel and dirt from conduit. Cap all conduits prior to placing aggregate and setting battery box ground box. Provide Grade 3 or 4 coarse aggregate as shown on Table 2 of Item 302 "Aggregates for Surface Treatments." Ensure the aggregate bed is in place and is a minimum of 9 in. deep prior to setting the box. Install battery box ground box on top of aggregate.

3. Cast battery box aprons in place. Reinforcing steel may be field bent. Ensure the depth of concrete for the apron extends from finished grade to the top of the aggregate bed under the box. Battery box ground box aprons, including concrete and reinforcing steel, are subsidiary to battery box ground boxes when called for by descriptive code.

4. Bolt covers down when not working in battery box ground boxes. Keep bolt holes in the box clear of dirt.



PLAN VIEW



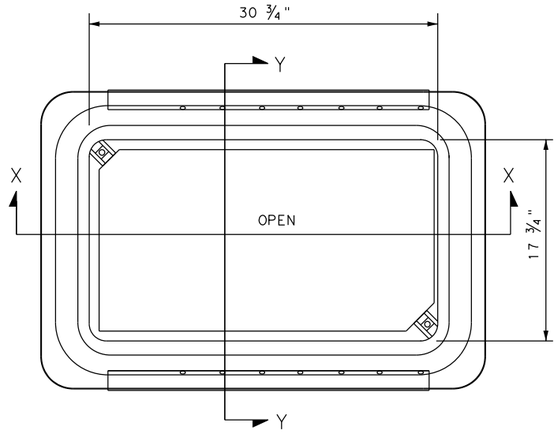
SECTION A - A

APRON FOR BATTERY BOX GROUND BOXES

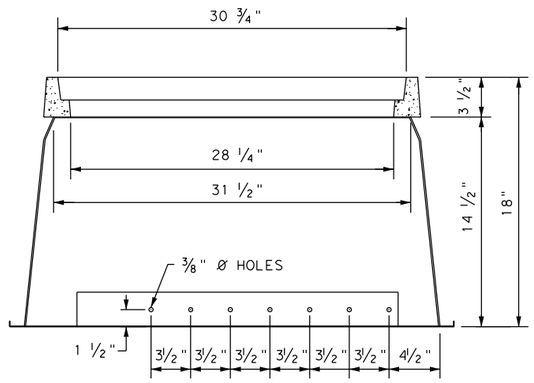
(1) Place aggregate under the box and not in the box. Aggregate should not encroach on the interior volume of the box.

(2) Install bushing or bell end fitting on the upper end of all ells.

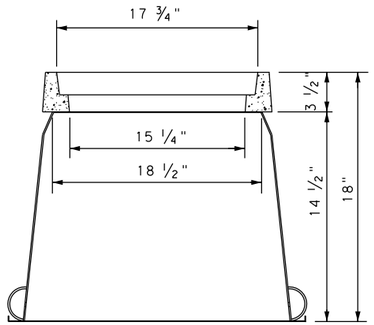
(3) Install all conduits in a neat and workmanlike manner.



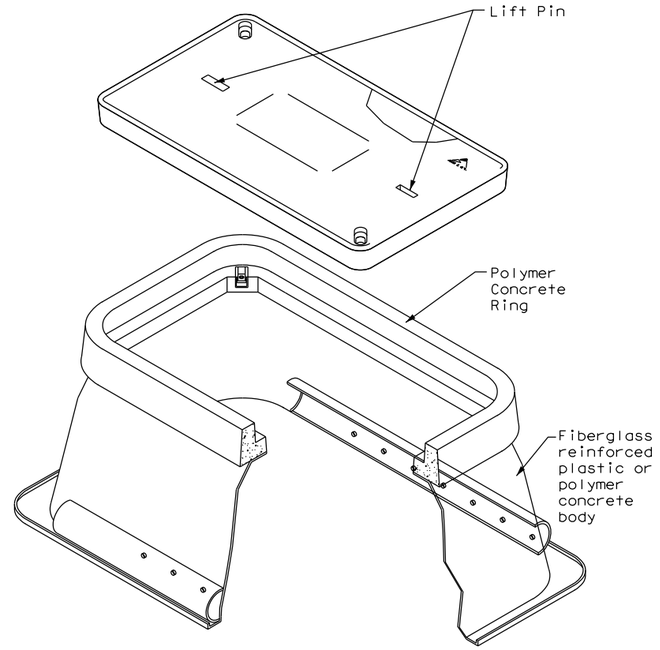
BATTERY BOX TOP VIEW



SECTION X-X



SECTION Y-Y



Texas Department of Transportation | Traffic Operations Division Standard

ELECTRICAL DETAILS
BATTERY BOX
GROUND BOXES

ED(12)-14

FILE: ed12-14.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT October 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		225

71M

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ROADWAY ILLUMINATION ASSEMBLY NOTES

1. Details apply to roadway lighting installations bid or referenced under Item 610, "Roadway Illumination Assemblies." Provide, furnish, and install all other materials not shown on the plans which may be necessary for complete and proper construction. Where manufacturers provide warranties or guarantees as a customary trade practice, furnish to the State such warranties or guarantees.

2. The locations of poles and fixtures may be shifted by the Engineer to accommodate local conditions. Install or remove poles and luminaires located near overhead electrical lines using established industry and utility safety practices and in accordance with laws governing such work. Consult with the appropriate utility company prior to beginning such work.

3. Provide new and unused materials. Ensure that all materials and installations comply with the applicable articles of the National Electrical Code (NEC),TxDOT standards and specifications, National Electrical Manufacturers Association (NEMA),and are listed by Underwriters Laboratories (UL) or a Nationally Recognized Testing Lab (NRTL). NRTLs such as Canadian Standard Association, Intertek Testing Services NA Inc., or FM Approvals LLC can be considered equivalent to UL. Faulty fabrication or poor workmanship in any material, equipment, or installation is justification for rejection.

4. Provide Roadway Illumination Light Fixtures as per TxDOT Departmental Material Specification (DMS) 11010, Item 610, and as shown on the Material Producers List (MPL) for Roadway Illumination and Electrical Supplies.

5. Fabricate steel roadway illumination poles in accordance with Roadway Illumination Poles (RIP) standards and Item 610. Poles fabricated according to RIP standards do not require shop drawing submittals.

   a. Alternate designs to RIP standards or the use of aluminum to fabricate poles will require the submission of shop drawings electronically. For instructions on submitting shop drawings electronically see "Guide to Electronic Shop Drawing Submittal" on the TxDOT web site.

   b. Limitations on use of the RIP standard: The RIP standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25′ above the elevation of the surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 6th Edition (2013) of the AASHTO Design Specifications. For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25′ above the surrounding terrain, provide poles meeting the following requirements:

      i. Submittals. Following the electronic shop drawing submittal process (see Guide to Electronic Shop Drawing Submittal on the TxDOT web site), submit to the Engineer for approval fabrication drawings and calculations for the poles, sealed by a Texas licensed professional engineer (P.E.).

      ii. Luminaire Structural Support Requirements. Provide light poles, arms, and anchor bolt assemblies with a 25 year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the 6th edition (2013) of the AASHTO Design Specifications. For transformer base poles, include transformer base and connecting hardware in calculations and shop drawing submittals. Structurally test all transformer bases to resist the theoretical plastic moment capacity of the pole. Submit certification of the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished with the shop drawings. Show breakaway base model number, manufacturer's name, and logo on shop drawings. Include on manufacturer's shop drawings the ASTM designations for all materials to be used.

6. For both transformer and shoe-base type illumination poles, provide and install double-pole breakaway fuse holders as specified by DMS-11040. Breakaway fuse holders are listed on the MPL for Roadway Illumination and Electrical Supplies under Items 610 & 620. Provide 10 amp time delay fuses for breakaway connectors in light poles, or inside the light fixture for underpass luminaires. In each pole, connect luminaires to the breakaway connector with continuous stranded 12 AWG copper conductors as listed on the MPL. Bond all equipment grounding conductors together and to the ground lug in the transformer base or hand hole.

7. Tighten anchor bolts for shoe base, concrete traffic barrier base, and bridge mount roadway illumination poles, in accordance with Item 449.

8. Install T-Base with following procedure:

   a. Anchor Bolt Tightening.

      i. Coat the threads of the anchor bolts with electrically conductive lubricant.

      ii. Place the T-base over the anchor bolts. Foundation must be level and flat. The maximum permissible gap under any one corner of the t-base is 1/8" before nuts are tightened.

      iii. Coat the bearing surfaces of the nuts and washers with electrically conductive lubricant. Install (1) 1/2" hold down washer, (1) lock washer, and (1) nut on each anchor bolt. Turn the nuts onto the bolts so that each is hand-tight against the washer.

      iv. Using a torque wrench, tighten each nut to 150 ft-lb. Uniform contact is required between the foundation and the T-base in the corner regions of the T-base, and all corner gaps must be closed after applying torque. If a gap still exists after torquing to 150 ft-lbs, continue torquing each bolt incrementally until gap is closed or maximum allowable torque of 250 ft. pound is reached, whichever comes first. If 250 ft-lbs is not enough to close the gap the foundation must be leveled. Gaps along the straight sides of the T-bases and the foundation are permissible. Ensure that no high point of contact occurs between the straight sides of the T-base and the foundation.

      v. Check top of T-base for level. If not level then foundation must be leveled.

   b. Top Bolt Procedure

      i. Erect pole over T-base with crane. Coat bolts, nuts, washers, and lock washers with electrically conductive lubricant.

      ii. Install bolts and 1/2" connecting washers from the inside of the T-base, thread up through the pole base. Install flat washers, lock washers and nuts snug tight according to Item 447, "Structural Bolting."

      iii. Tighten each nut to 150 ft-lb. using a torque wrench.

   c. Level and Plumb

      i. Ensure pole is plumb and mast arm is perpendicular to the roadway according to plans to within 5 degrees.

9. Construct luminaire pole foundations in accordance with Item 416, "Drilled Shaft Foundations," and TxDOT standard sheet RID(2).

10. Provide and install underpass luminaires in accordance with Item 610, DMS-11010, and TxDOT standard sheet RID(3). Typical luminaire size for underpass luminaires is 150W HPS or 150W EQ LED.

11. Mount luminaires on arms level as shown by the luminaire level indicator.

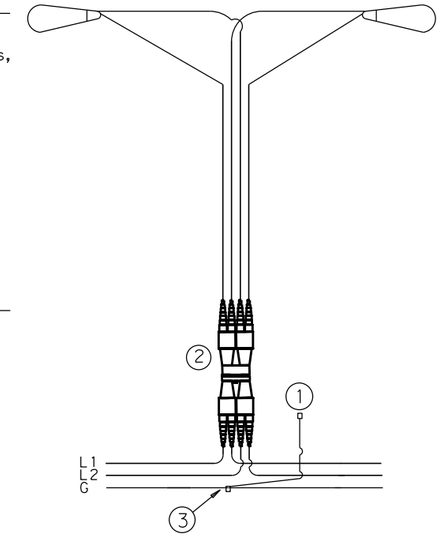
12. Orient luminaires perpendicular to the roadway intended to be lit unless otherwise shown on the plans.

Wiring Diagram Notes:

(1) Use 1/2 in.-13 UNC threaded, copper or tin-plated copper, pole bonding connector, sized appropriately for conductors, bonded to T-base, or use ground lug in handhole as available.

(2) Use pre-qualified two-pole breakaway connectors for all luminaire pole installations. For luminaires fed by a circuit with a neutral conductor, use double pole breakaway connectors with the neutral side unfused and marked white.

(3) Split Bolt or other connector.



L1,L2 = Hot Conductors
G = Grounding Conductor

TYPICAL WIRING DIAGRAM

LUMINAIRES SERVED AT 480V ON 240/480 VOLT SERVICE OR LUMINAIRES SERVED AT 240V FOR 120/240 VOLT SERVICE.

Decorative LED Lighting Notes:

1. LED Drivers in Remote Outdoor enclosures (for drivers that do not include an enclosure as part of a factory assembly):

   a. Provide NEMA 3R outdoor enclosure or as approved.

   b. Install enclosure at least 12" above ground or other horizontal surface. Mount vertically or on ceiling, and avoid direct sun where possible.

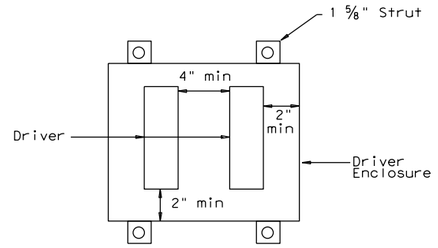
   c. Install drivers with at least 2 inches of space from enclosure walls.

   d. For multiple drivers in an enclosure, provide at least 4 inches side to side and 1 inch end to end from other drivers or electronic equipment

   e. For drivers mounted on back wall of enclosure, mount enclosure on 1 5/8" strut or other standoff to dissipate heat, or mount driver to side of the enclosure or to the metal cover.

   f. Provide remote drivers with a maximum of 100 watts

   g. Provide drivers with documentation of 100,000 hr lifetime at Tcase of 65C or higher.



Driver Spacing In Remote Enclosure

Texas Department of Transportation

Traffic Safety Division Standard

ROADWAY ILLUMINATION DETAILS

RID(1)-20

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© TxDOT January 2007	CONT	SECT	JOB	HIGHWAY
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7-17	DIST	COUNTY		SHEET NO.
12-20	YKM	COLORADO, ETC.		226

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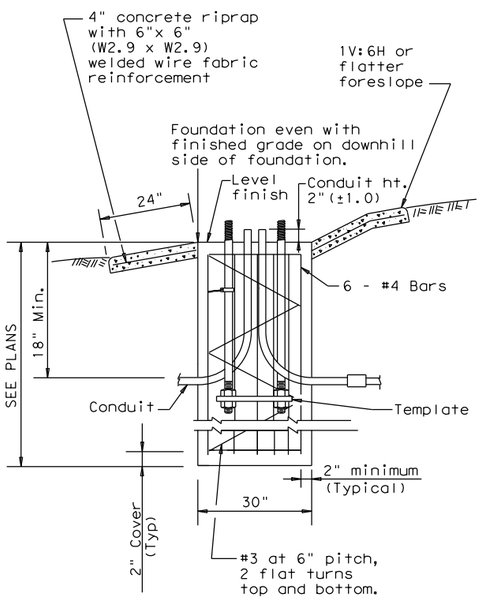
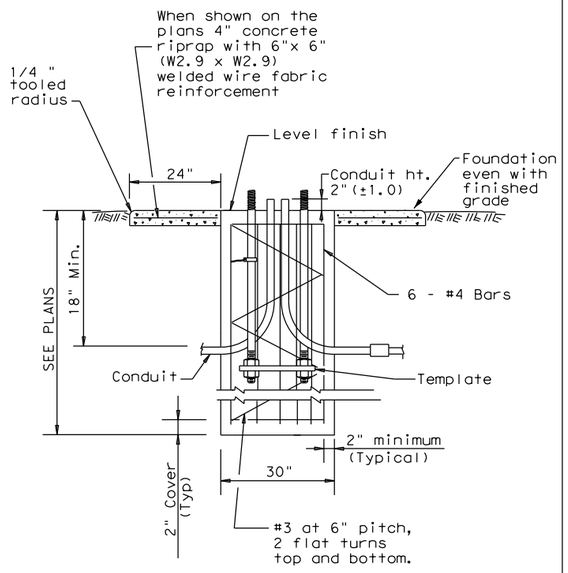


SECTION A-A
SHOWING SLOPED GRADE



SECTION A-A
SHOWING CONSTANT GRADE

TABLE 1

ANCHOR BOLTS

POLE MOUNTING HEIGHT	BOLT CIRCLE		ANCHOR BOLT SIZE
	Shoe Base	T-Base	
<40 ft.	13 in.	14 in.	1in. x 30in.
40-50 ft.	15 in.	17 ¼in.	1 ¼in. x 30in.

TABLE 2

RECOMMENDED FOUNDATION LENGTHS (See note 1)

MOUNTING HEIGHT	TEXAS CONE PENETROMETER N Blows/ft		
	10	15	40
≤20 ft.	6′	6′	6′
>20 ft. to 30 ft.	8′	6′	6′
>30 ft. to 40 ft.	8′	8′	6′
>40 ft. to 50 ft.	10′	8′	6′

TABLE 3

PAY QUANTITY OF RIPRAP PER FOUNDATION (Install only when shown on the plans)

Foundation Diameter	RIPRAP DIAMETER	RIPRAP (CONC) (CL B)
30 in.	78 in.	0.35 CY

GENERAL NOTES:

1. "Recommended Foundation Lengths" table is for information purposes only. Foundation lengths shall be as shown on the plans, or as directed by the Engineer. Foundations will be paid for under Item 416, "Drilled Shaft Foundations," unless otherwise shown on the plans.
2. Erect roadway illumination assembly poles plumb and true. Form and level the top 6" of the foundation so the pole will be plumb. Use leveling nuts to plumb shoe base poles. Do not use shims or leveling nuts under transformer bases. Do not grout between baseplate and the foundation.
3. Ensure Class 2A and 2B fit for anchor bolts and nuts. Tap and chase nuts after galvanizing. Anchor bolt body with rolled threads need not be full size.
4. Use appropriate class of concrete as specified in Items 416 and 432. Concrete for riprap may be upgraded to Class C at no extra cost to the Department.
5. Place riprap around the foundation when called for elsewhere in the plans. Riprap will be paid for under Item 432.
6. Locate breakaway roadway illumination assemblies as shown in the placement table, unless otherwise dimensioned on the plans. Protect non-breakaway illumination assemblies from vehicular impact (i.e. 2.5 ft. behind guard rail or mounted on traffic barrier), or located outside the clear zone, except that 2.5 ft. from curb face is minimum desired for light poles on city streets, 45 mph or less. See Roadway Design Manual for further information.
7. Use 4 hold down and 4 connecting washers on transformer base poles as recommended by the manufacturer and supplied with base.
8. Install a minimum of 2 conduits in each foundation. See lighting layout sheets for locations of foundations with more than 2 conduits. Cap unused conduits in foundations on both ends.
9. Conduit location in foundations is critical for breakaway devices. Place conduits 2 in. apart on centerline as shown.
10. Bond anchor bolt to rebar cage with #6 bare stranded copper conductor. Use listed mechanical connectors rated for embedment in concrete. The bonded steel in the foundation creates a concrete encased grounding electrode which replaces the ground rod.
11. Grade earthwork around T-base foundations even with the finished grade as shown in Section A-A to ensure proper function of the breakaway device. Use riprap on T-base foundations that are located on sloped grades, and as shown on the plans for level grades.

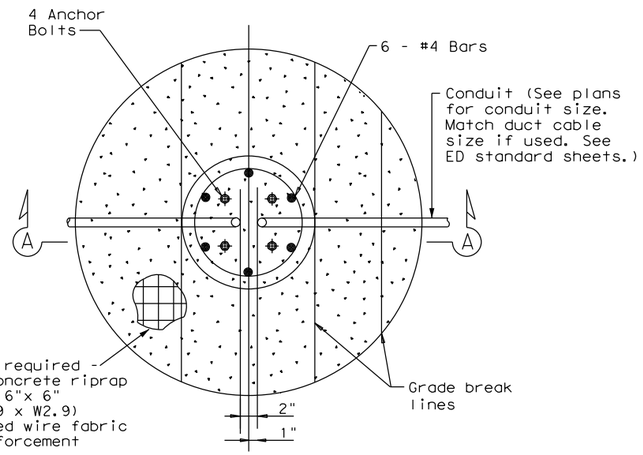
TABLE 4

BREAKAWAY POLE PLACEMENT (See note 6)

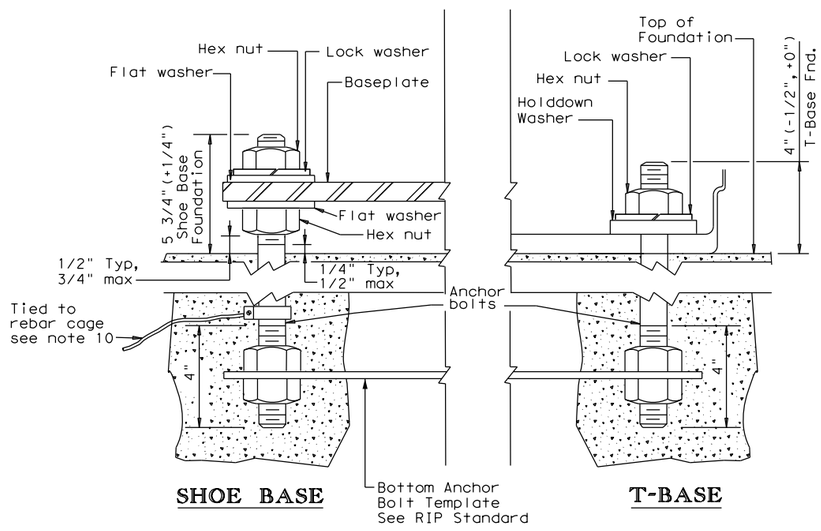
ROADWAY FUNCTIONAL CLASSIFICATION	** POLE OFFSET (DISTANCE TO FACE OF TRANSFORMER BASE)
Freeway Mainlanes (roadway with full control of access)	15 ft. (minimum and typical) from lane edge
All curbed, 45 mph or less design speed	2.5 ft. minimum (15 ft. desirable) from curb face
All others	10 ft. minimum*(15 ft. desirable) from lane edge

* or as close to ROW line as is practical

** provide 2/5 of the luminaire mounting height behind the pole for "falling area" to prevent encroachment on the other travel lanes. See design guidelines.



FOUNDATION DETAIL



ANCHOR BOLT DETAIL

Texas Department of Transportation

Traffic Safety Division Standard

ROADWAY ILLUMINATION DETAILS
(RDWY ILLUM FOUNDATIONS)
RID(2)-20

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©TxDOT January 2007	CONT	SECT	JOB	HIGHWAY
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1-11	DIST	COUNTY		SHEET NO.
7-17	YKM	COLORADO, ETC.		227
12-20				

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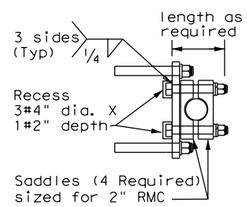
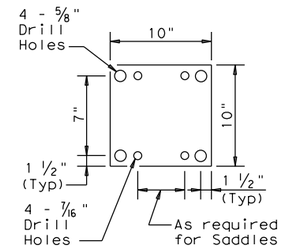
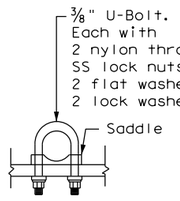


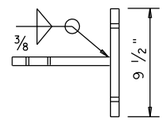
SECTION A-A



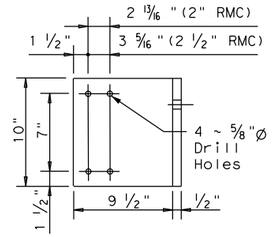
MOUNTING PLATE
(ASTM A-36 or better)



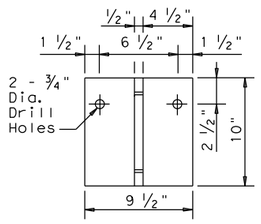
CLAMP DETAIL
(2 Req'd)



PLAN VIEW

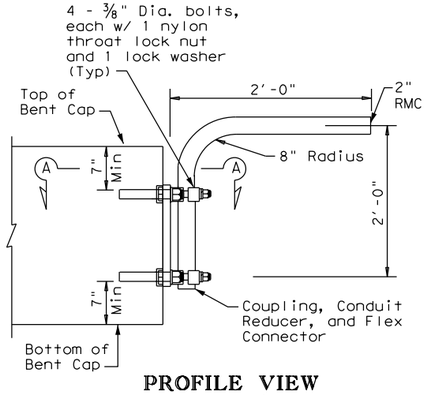


FRONT

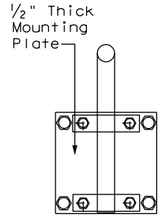


SIDE

BRACKET DETAIL
Make from 1/2" plate (ASTM A-36 or better)

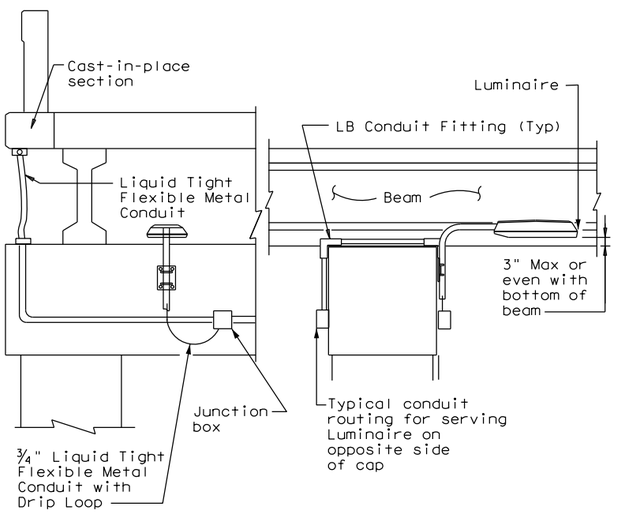


PROFILE VIEW
Or as Required
(See Note A.3)



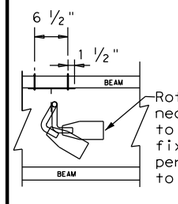
END VIEW

UNDERPASS LIGHTING ARM



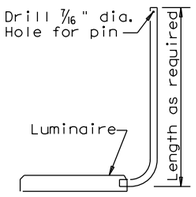
IN RD IL AM (U/P) (TY 1)
If bridge has pre-cast panels under deck, run circuit under deck edge.

UNDERPASS LIGHTING TYPE 1



PLAN VIEW

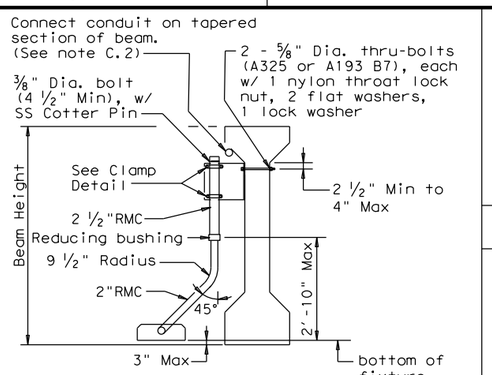
FIXTURE ORIENTATION



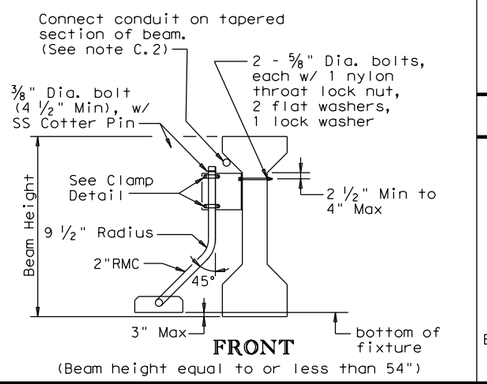
SIDE

PLAN VIEW

ARM DETAIL

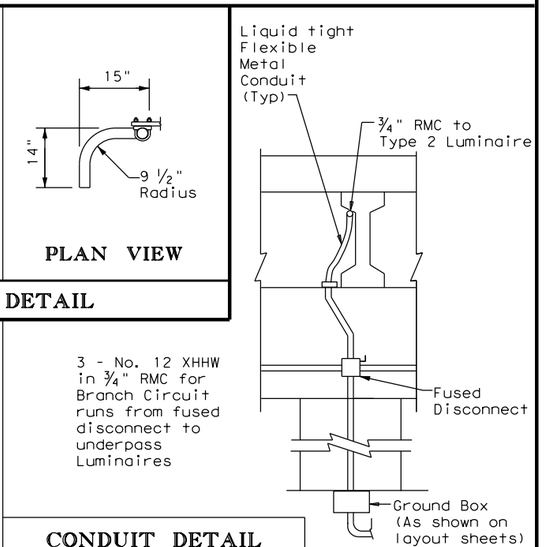


FRONT
(Beam height greater than 54")

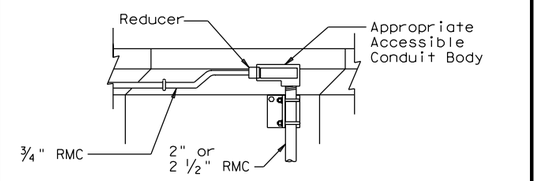


FRONT
(Beam height equal to or less than 54")

IN RD IL AM (U/P) (TY 2)



CONDUIT DETAIL



CONDUIT CONNECTION PROFILE

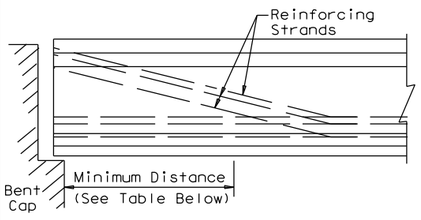


TABLE 5

LOCATION OF UNDERPASS LIGHT MOUNTING BRACKET TABLE

SPAN LENGTH	MINIMUM DISTANCE
≤ 50'	10'-0"
50' - 70'	15'-0"
70' - 90'	20'-0"
> 90'	25'-0"

LOCATION OF UNDERPASS LIGHT MOUNTING BRACKET

UNDERPASS LIGHTING TYPE 2

GENERAL NOTES:

A. ALL 150 watt HPS and 150 watt equivalent LED Luminaires

1. Luminaire locations, conduit and conductor sizes and routing are typical and diagrammatic only. See project layout sheets for specific details.
2. Conduit will be paid for under Item 618, "Conduit" and conductors will be paid for under Item 620, "Electrical Conductors," unless otherwise shown on the plans.
3. Adjust conduit in saddles to place fixture height and orientation as required. See fixture orientation detail and plans. Where practicable, place luminaires so the bottom of luminaire is above the bottom of the beam, maximum of 3 in. (See detail UNDERPASS LIGHTING ARM TYPE 2)
4. Except as noted, galvanize all structural steel and exposed bolts, nuts, and washers in accordance with Item 445 "Galvanizing".
5. Fabrication of brackets and support arms will not be paid for directly but is subsidiary to Item 610, "Roadway Illumination Assemblies."
6. Install a heavy duty NEMA 3R fused disconnect or breaker enclosure rated at 30 amps and 480 volts to switch underpass luminaires as shown on plans, with at least one per bridge circuit. Install 20 amp time-delay fuses or inverse-time circuit breakers. Mount disconnect or breaker enclosure 10 ft. (min) above grade on columns or bent caps as approved by the Department. Modify disconnect to allow padlocking in the "ON" and "OFF" positions. Padlocks and disconnect switches or circuit breakers for underpass fixtures will not be paid for directly but are subsidiary to the various bid items of the contract.
7. Conduit on columns, caps, and slab is shown surface mounted. For new columns and caps, embed PVC conduit in concrete. Bond and ground metal junction boxes and conduit.

B. TYPE 1

1. Provide 2 in. rigid metal conduit (2.375" O.D., 0.146" wall) for Type 1 arm shaft.
2. Use 3/8 in. stainless steel bolt or stud non-epoxy type expansion anchors for concrete for Type 1 mounting. Except as noted, provide an allowable 2650 lbs minimum pull-out force (after consideration of adjustment factors for edge distance and bolt spacing) for each anchor. Install each anchor to the embedment depth recommended by the manufacturer.
3. Attach conduit to plate with 4 saddles, four - 3/8 in. diameter bolts, nylon throat lock nuts, and lock washers.

C. TYPE 2

1. Provide 2 in. rigid metal conduit (2.375" O.D., 0.146" wall) or provide a combination of 2 1/2 in. (2.875" O.D., 0.193" wall) and 2 in. (2.375" O.D., 0.146" wall) rigid metal conduits with a reducing bushing as beam height stipulated for Type 2 arm shaft. Field cutting and threading will be permitted. Paint cut and threaded areas with zinc rich paint after conduit is connected to adjacent fitting.
2. Connecting conduit may be strapped to tapered section only of precast beams as shown. Anchor as approved by the Engineer. Maximum anchor depth is 1 in.
3. Indiscriminate drilling into precast concrete beams may result in reduced beam strength. Use drilling location and method as directed by the Engineer. See Location of Underpass Lighting Mounting Bracket detail. The locations shown in the table are such that reinforcing strands will not be damaged.

Texas Department of Transportation

Traffic Safety Division Standard

ROADWAY ILLUMINATION DETAILS
(UNDERPASS LIGHT FIXTURES)

RID(3)-20

FILE: rid3-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT May 2013	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
2-14	DIST	COUNTY		SHEET NO.
7-17	YKM	COLORADO, ETC.		228
12-20				

72C

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0026-04-048

1.2 PROJECT LIMITS:
From: Weimar HS

To: N Grohmann St.

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.702041 ,(Long) -96.773624

END: (Lat) 29.703395 ,(Long) -96.789496

1.4 TOTAL PROJECT AREA (Acres): 2.47

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.33

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

- ☐ PSLs determined during preconstruction meeting
- ☐ PSLs determined during construction
- ☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ☐ Mobilization
- ☒ Install sediment and erosion controls
- ☒ Blade existing topsoil into windrows, prep ROW, clear and grub
- ☒ Remove existing pavement
- ☒ Grading operations, excavation, and embankment
- ☐ Excavate and prepare subgrade for proposed pavement widening
- ☐ Remove existing culverts, safety end treatments (SETs)
- ☐ Remove existing metal beam guard fence (MBGF), bridge rail
- ☒ Install proposed pavement per plans
- ☒ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- ☐ Place flex base
- ☒ Rework slopes, grade ditches
- ☒ Blade windrowed material back across slopes
- ☒ Revegetation of unpaved areas
- ☒ Achieve site stabilization and remove sediment and erosion control measures
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- ☒ Sediment laden stormwater from stormwater conveyance over disturbed area
- ☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
- ☒ Solvents, paints, adhesives, etc. from various construction activities
- ☒ Transported soils from offsite vehicle tracking
- ☒ Construction debris and waste from various construction activities
- ☐ Contaminated water from excavation or dewatering pump-out water
- ☒ Sanitary waste from onsite restroom facilities
- ☒ Trash from various construction activities/receptacles
- ☐ Long-term stockpiles of material and waste
- ☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Navidad River 1605A	Lake Texana 1604
	Navidad River Tidal 1603
	Lavaca River Tidal 1601
	Lavaca Bay 2453
	Matagorda Bay 2451

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- ☒ Development of plans and specifications
- ☒ Perform SWP3 inspections
- ☒ Maintain SWP3 records and update to reflect daily operations
- ☐ Other: _____
- ☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

- ☒ Day To Day Operational Control
- ☒ Maintain schedule of major construction activities
- ☒ Install, maintain and modify BMPs
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

STATE OF TEXAS
ANGELA K. RENGER
102350
LICENSED
PROFESSIONAL ENGINEER

Angela Renger

6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			229
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [X] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [X] Permanent Planting, Sodding or Seeding
- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [X] [ ] Temporary Pipe Slope Drain
- [X] [X] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [X] [ ] Inlet Protection
- [X] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [X] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [X] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [X] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

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6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [X] Chemical Management
- [X] Concrete and Materials Waste Management
- [X] Debris and Trash Management
- [X] Dust Control
- [X] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [X] Fire hydrant flushings
- [X] Irrigation drainage
- [X] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [X] Potable water sources
- [X] Springs
- [X] Uncontaminated groundwater
- [X] Water used to wash vehicles or control dust
- [X] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

 July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			230
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0143-09-071

1.2 PROJECT LIMITS:
From: Park Heights

To: CL Duckett Dr

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.089471 ,(Long) -97.278711

END: (Lat) 29.087547 ,(Long) -97.265519

1.4 TOTAL PROJECT AREA (Acres): 3.45

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.48

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

- ☐ PSLs determined during preconstruction meeting
- ☐ PSLs determined during construction
- ☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ☐ Mobilization
- ☒ Install sediment and erosion controls
- ☒ Blade existing topsoil into windrows, prep ROW, clear and grub
- ☒ Remove existing pavement
- ☒ Grading operations, excavation, and embankment
- ☐ Excavate and prepare subgrade for proposed pavement widening
- ☐ Remove existing culverts, safety end treatments (SETs)
- ☐ Remove existing metal beam guard fence (MBGF), bridge rail
- ☒ Install proposed pavement per plans
- ☒ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- ☐ Place flex base
- ☒ Rework slopes, grade ditches
- ☒ Blade windrowed material back across slopes
- ☒ Revegetation of unpaved areas
- ☒ Achieve site stabilization and remove sediment and erosion control measures
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- ☒ Sediment laden stormwater from stormwater conveyance over disturbed area
- ☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
- ☒ Solvents, paints, adhesives, etc. from various construction activities
- ☒ Transported soils from offsite vehicle tracking
- ☒ Construction debris and waste from various construction activities
- ☐ Contaminated water from excavation or dewatering pump-out water
- ☒ Sanitary waste from onsite restroom facilities
- ☒ Trash from various construction activities/receptacles
- ☐ Long-term stockpiles of material and waste
- ☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Guadalupe River 1803	Guadalupe River Tidal 1801
	San Antonio Bay 2462

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- ☒ Development of plans and specifications
- ☒ Perform SWP3 inspections
- ☒ Maintain SWP3 records and update to reflect daily operations
- ☐ Other: _____
- ☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

- ☒ Day To Day Operational Control
- ☒ Maintain schedule of major construction activities
- ☒ Install, maintain and modify BMPs
- ☐ Other: _____
- ☐ Other: _____

STATE OF TEXAS
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6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023 Sheet 1 of 2

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			231
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [X] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [X] Permanent Planting, Sodding or Seeding
- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [X] [ ] Temporary Pipe Slope Drain
- [X] [X] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [X] [ ] Inlet Protection
- [X] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [X] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [X] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [X] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

STATE OF TEXAS
ANGELA K. RENGER
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PROFESSIONAL ENGINEER

Angela Renger

6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [X] Chemical Management
- [X] Concrete and Materials Waste Management
- [X] Debris and Trash Management
- [X] Dust Control
- [X] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [X] Fire hydrant flushings
- [X] Irrigation drainage
- [X] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [X] Potable water sources
- [X] Springs
- [X] Uncontaminated groundwater
- [X] Water used to wash vehicles or control dust
- [X] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023 Sheet 2 of 2

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			232
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0269-06-060

1.2 PROJECT LIMITS:
From: North St.

To: US 87 (Broadway St.)

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.108668 ,(Long) -97.282880

END: (Lat) 29.093827 ,(Long) -97.290008

1.4 TOTAL PROJECT AREA (Acres): 4.06

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.46

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

☐ PSLs determined during preconstruction meeting
☐ PSLs determined during construction
☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

☐ Mobilization
☒ Install sediment and erosion controls
☒ Blade existing topsoil into windrows, prep ROW, clear and grub
☒ Remove existing pavement
☒ Grading operations, excavation, and embankment
☐ Excavate and prepare subgrade for proposed pavement widening
☐ Remove existing culverts, safety end treatments (SETs)
☐ Remove existing metal beam guard fence (MBGF), bridge rail
☒ Install proposed pavement per plans
☒ Install culverts, culvert extensions, SETs
☐ Install mow strip, MBGF, bridge rail
☐ Place flex base
☒ Rework slopes, grade ditches
☒ Blade windrowed material back across slopes
☒ Revegetation of unpaved areas
☒ Achieve site stabilization and remove sediment and erosion control measures
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

☒ Sediment laden stormwater from stormwater conveyance over disturbed area
☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
☒ Solvents, paints, adhesives, etc. from various construction activities
☒ Transported soils from offsite vehicle tracking
☒ Construction debris and waste from various construction activities
☐ Contaminated water from excavation or dewatering pump-out water
☒ Sanitary waste from onsite restroom facilities
☒ Trash from various construction activities/receptacles
☐ Long-term stockpiles of material and waste
☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
☐ Other: _____
☐ Other: _____
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1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Guadalupe River 1803	Guadalupe River Tidal 1801
	San Antonio Bay 2462

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

☒ Development of plans and specifications
☒ Perform SWP3 inspections
☒ Maintain SWP3 records and update to reflect daily operations
☐ Other: _____
☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

☒ Day To Day Operational Control
☒ Maintain schedule of major construction activities
☒ Install, maintain and modify BMPs
☐ Other: _____
☐ Other: _____
☐ Other: _____

STATE OF TEXAS
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PROFESSIONAL ENGINEER

Angela Renger

6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
		233

STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [X] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [X] Permanent Planting, Sodding or Seeding
- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [X] [ ] Temporary Pipe Slope Drain
- [X] [X] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [X] [ ] Inlet Protection
- [X] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [X] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [X] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [X] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

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6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [X] Chemical Management
- [X] Concrete and Materials Waste Management
- [X] Debris and Trash Management
- [X] Dust Control
- [X] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [X] Fire hydrant flushings
- [X] Irrigation drainage
- [X] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [X] Potable water sources
- [X] Springs
- [X] Uncontaminated groundwater
- [X] Water used to wash vehicles or control dust
- [X] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

 July 2023 Sheet 2 of 2

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			234
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0323-03-034

1.2 PROJECT LIMITS:
From: US 90

To: IH 10 Frt. Rd.

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.695827 ,(Long) -97.108615

END: (Lat) 29.687720 ,(Long) -97.108481

1.4 TOTAL PROJECT AREA (Acres): 1.37

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.39

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

- ☐ PSLs determined during preconstruction meeting
- ☐ PSLs determined during construction
- ☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ☐ Mobilization
- ☒ Install sediment and erosion controls
- ☒ Blade existing topsoil into windrows, prep ROW, clear and grub
- ☒ Remove existing pavement
- ☒ Grading operations, excavation, and embankment
- ☐ Excavate and prepare subgrade for proposed pavement widening
- ☐ Remove existing culverts, safety end treatments (SETs)
- ☐ Remove existing metal beam guard fence (MBGF), bridge rail
- ☒ Install proposed pavement per plans
- ☒ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- ☐ Place flex base
- ☒ Rework slopes, grade ditches
- ☒ Blade windrowed material back across slopes
- ☒ Revegetation of unpaved areas
- ☒ Achieve site stabilization and remove sediment and erosion control measures
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- ☒ Sediment laden stormwater from stormwater conveyance over disturbed area
- ☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
- ☒ Solvents, paints, adhesives, etc. from various construction activities
- ☒ Transported soils from offsite vehicle tracking
- ☒ Construction debris and waste from various construction activities
- ☐ Contaminated water from excavation or dewatering pump-out water
- ☒ Sanitary waste from onsite restroom facilities
- ☒ Trash from various construction activities/receptacles
- ☐ Long-term stockpiles of material and waste
- ☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Lavaca River 1602C	Lavaca River Tidal 1601
Lavaca River 1602	Lavaca Bay 2453
	Matagorda Bay 2451

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- ☒ Development of plans and specifications
- ☒ Perform SWP3 inspections
- ☒ Maintain SWP3 records and update to reflect daily operations
- ☐ Other: _____
- ☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

- ☒ Day To Day Operational Control
- ☒ Maintain schedule of major construction activities
- ☒ Install, maintain and modify BMPs
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

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STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
		235

STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [X] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [X] Permanent Planting, Sodding or Seeding
- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [X] [ ] Temporary Pipe Slope Drain
- [X] [X] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [X] [ ] Inlet Protection
- [X] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [X] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [X] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [X] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

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6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [X] Chemical Management
- [X] Concrete and Materials Waste Management
- [X] Debris and Trash Management
- [X] Dust Control
- [X] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [X] Fire hydrant flushings
- [X] Irrigation drainage
- [X] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [X] Potable water sources
- [X] Springs
- [X] Uncontaminated groundwater
- [X] Water used to wash vehicles or control dust
- [X] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			236
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0269-03-040

1.2 PROJECT LIMITS:
From: Lay St.

To: US 77

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.439730 ,(Long) -96.953029

END: (Lat) 29.440807 ,(Long) -96.950724

1.4 TOTAL PROJECT AREA (Acres): 0.75

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.14

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

- ☐ PSLs determined during preconstruction meeting
- ☐ PSLs determined during construction
- ☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ☐ Mobilization
- ☒ Install sediment and erosion controls
- ☒ Blade existing topsoil into windrows, prep ROW, clear and grub
- ☒ Remove existing pavement
- ☒ Grading operations, excavation, and embankment
- ☐ Excavate and prepare subgrade for proposed pavement widening
- ☐ Remove existing culverts, safety end treatments (SETs)
- ☐ Remove existing metal beam guard fence (MBGF), bridge rail
- ☒ Install proposed pavement per plans
- ☒ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- ☐ Place flex base
- ☒ Rework slopes, grade ditches
- ☒ Blade windrowed material back across slopes
- ☒ Revegetation of unpaved areas
- ☒ Achieve site stabilization and remove sediment and erosion control measures
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- ☒ Sediment laden stormwater from stormwater conveyance over disturbed area
- ☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
- ☒ Solvents, paints, adhesives, etc. from various construction activities
- ☒ Transported soils from offsite vehicle tracking
- ☒ Construction debris and waste from various construction activities
- ☐ Contaminated water from excavation or dewatering pump-out water
- ☒ Sanitary waste from onsite restroom facilities
- ☒ Trash from various construction activities/receptacles
- ☐ Long-term stockpiles of material and waste
- ☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Lavaca River 1602C	Lavaca River Tidal 1601
Lavaca River 1602	Lavaca Bay 2453
	Matagorda Bay 2451

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- ☒ Development of plans and specifications
- ☒ Perform SWP3 inspections
- ☒ Maintain SWP3 records and update to reflect daily operations
- ☐ Other: _____
- ☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

- ☒ Day To Day Operational Control
- ☒ Maintain schedule of major construction activities
- ☒ Install, maintain and modify BMPs
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

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6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
		237

STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [x] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [x] Permanent Planting, Sodding or Seeding
- [x] [x] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [x] [ ] Temporary Pipe Slope Drain
- [x] [x] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [x] [x] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [x] [ ] Inlet Protection
- [x] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [x] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [x] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [x] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

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6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [x] Chemical Management
- [x] Concrete and Materials Waste Management
- [x] Debris and Trash Management
- [x] Dust Control
- [x] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [x] Fire hydrant flushings
- [x] Irrigation drainage
- [x] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [x] Potable water sources
- [x] Springs
- [x] Uncontaminated groundwater
- [x] Water used to wash vehicles or control dust
- [x] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			238
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0370-01-040

1.2 PROJECT LIMITS:
From: US 77

To: Circle Dr.

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.440807 ,(Long) -96.953029

END: (Lat) 29.441160 ,(Long) -96.949992

1.4 TOTAL PROJECT AREA (Acres): 0.05

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.004

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

☐ PSLs determined during preconstruction meeting
☐ PSLs determined during construction
☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

☐ Mobilization
☒ Install sediment and erosion controls
☒ Blade existing topsoil into windrows, prep ROW, clear and grub
☒ Remove existing pavement
☒ Grading operations, excavation, and embankment
☐ Excavate and prepare subgrade for proposed pavement widening
☐ Remove existing culverts, safety end treatments (SETs)
☐ Remove existing metal beam guard fence (MBGF), bridge rail
☒ Install proposed pavement per plans
☒ Install culverts, culvert extensions, SETs
☐ Install mow strip, MBGF, bridge rail
☐ Place flex base
☒ Rework slopes, grade ditches
☒ Blade windrowed material back across slopes
☒ Revegetation of unpaved areas
☒ Achieve site stabilization and remove sediment and erosion control measures
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

☒ Sediment laden stormwater from stormwater conveyance over disturbed area
☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
☒ Solvents, paints, adhesives, etc. from various construction activities
☒ Transported soils from offsite vehicle tracking
☒ Construction debris and waste from various construction activities
☐ Contaminated water from excavation or dewatering pump-out water
☒ Sanitary waste from onsite restroom facilities
☒ Trash from various construction activities/receptacles
☐ Long-term stockpiles of material and waste
☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Lavaca River 1602C	Lavaca River Tidal 1601
Lavaca River 1602	Lavaca Bay 2453
	Matagorda Bay 2451

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

☒ Development of plans and specifications
☒ Perform SWP3 inspections
☒ Maintain SWP3 records and update to reflect daily operations
☐ Other: _____
☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

☒ Day To Day Operational Control
☒ Maintain schedule of major construction activities
☒ Install, maintain and modify BMPs
☐ Other: _____
☐ Other: _____
☐ Other: _____

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6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			239
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [X] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [X] Permanent Planting, Sodding or Seeding
- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [X] [ ] Temporary Pipe Slope Drain
- [X] [X] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [X] [ ] Inlet Protection
- [X] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [X] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [X] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [X] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

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Angela Renger

6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [X] Chemical Management
- [X] Concrete and Materials Waste Management
- [X] Debris and Trash Management
- [X] Dust Control
- [X] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [X] Fire hydrant flushings
- [X] Irrigation drainage
- [X] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [X] Potable water sources
- [X] Springs
- [X] Uncontaminated groundwater
- [X] Water used to wash vehicles or control dust
- [X] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			240
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0269-02-067

1.2 PROJECT LIMITS:
From: Circle Dr.

To: S Texana St. (US 77)

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.441160 ,(Long) -96.949992

END: (Lat) 29.444088 ,(Long) -96.941373

1.4 TOTAL PROJECT AREA (Acres): 1.10

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.19

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

- ☐ PSLs determined during preconstruction meeting
- ☐ PSLs determined during construction
- ☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ☐ Mobilization
- ☒ Install sediment and erosion controls
- ☒ Blade existing topsoil into windrows, prep ROW, clear and grub
- ☒ Remove existing pavement
- ☒ Grading operations, excavation, and embankment
- ☐ Excavate and prepare subgrade for proposed pavement widening
- ☐ Remove existing culverts, safety end treatments (SETs)
- ☐ Remove existing metal beam guard fence (MBGF), bridge rail
- ☒ Install proposed pavement per plans
- ☒ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- ☐ Place flex base
- ☒ Rework slopes, grade ditches
- ☒ Blade windrowed material back across slopes
- ☒ Revegetation of unpaved areas
- ☒ Achieve site stabilization and remove sediment and erosion control measures
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- ☒ Sediment laden stormwater from stormwater conveyance over disturbed area
- ☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
- ☒ Solvents, paints, adhesives, etc. from various construction activities
- ☒ Transported soils from offsite vehicle tracking
- ☒ Construction debris and waste from various construction activities
- ☐ Contaminated water from excavation or dewatering pump-out water
- ☒ Sanitary waste from onsite restroom facilities
- ☒ Trash from various construction activities/receptacles
- ☐ Long-term stockpiles of material and waste
- ☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Lavaca River 1602C	Lavaca River Tidal 1601
Lavaca River 1602	Lavaca Bay 2453
	Matagorda Bay 2451

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- ☒ Development of plans and specifications
- ☒ Perform SWP3 inspections
- ☒ Maintain SWP3 records and update to reflect daily operations
- ☐ Other: _____
- ☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

- ☒ Day To Day Operational Control
- ☒ Maintain schedule of major construction activities
- ☒ Install, maintain and modify BMPs
- ☐ Other: _____
- ☐ Other: _____

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6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
		241

STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [X] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [X] Permanent Planting, Sodding or Seeding
- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [X] [ ] Temporary Pipe Slope Drain
- [X] [X] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [X] [X] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [X] [ ] Inlet Protection
- [X] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [X] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [X] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [X] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

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Angela Renger

6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [X] Chemical Management
- [X] Concrete and Materials Waste Management
- [X] Debris and Trash Management
- [X] Dust Control
- [X] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [X] Fire hydrant flushings
- [X] Irrigation drainage
- [X] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [X] Potable water sources
- [X] Springs
- [X] Uncontaminated groundwater
- [X] Water used to wash vehicles or control dust
- [X] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			242
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0446-01-054

1.2 PROJECT LIMITS:
From: S Texana St. (US 77)

To: S Judy St.

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.444088 ,(Long) -96.941373

END: (Lat) 29.445432 ,(Long) -96.932907

1.4 TOTAL PROJECT AREA (Acres): 2.30

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.68

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

- ☐ PSLs determined during preconstruction meeting
- ☐ PSLs determined during construction
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Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ☐ Mobilization
- ☒ Install sediment and erosion controls
- ☒ Blade existing topsoil into windrows, prep ROW, clear and grub
- ☒ Remove existing pavement
- ☒ Grading operations, excavation, and embankment
- ☐ Excavate and prepare subgrade for proposed pavement widening
- ☐ Remove existing culverts, safety end treatments (SETs)
- ☐ Remove existing metal beam guard fence (MBGF), bridge rail
- ☒ Install proposed pavement per plans
- ☒ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- ☐ Place flex base
- ☒ Rework slopes, grade ditches
- ☒ Blade windrowed material back across slopes
- ☒ Revegetation of unpaved areas
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- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

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- ☒ Sediment laden stormwater from stormwater conveyance over disturbed area
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- ☒ Construction debris and waste from various construction activities
- ☐ Contaminated water from excavation or dewatering pump-out water
- ☒ Sanitary waste from onsite restroom facilities
- ☒ Trash from various construction activities/receptacles
- ☐ Long-term stockpiles of material and waste
- ☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
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- ☐ Other: _____
- ☐ Other: _____

1.11 RECEIVING WATERS:
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Tributaries	Classified Waterbody
Lavaca River 1602C	Lavaca River Tidal 1601
Lavaca River 1602	Lavaca Bay 2453
	Matagorda Bay 2451

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- ☒ Development of plans and specifications
- ☒ Perform SWP3 inspections
- ☒ Maintain SWP3 records and update to reflect daily operations
- ☐ Other: _____
- ☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

- ☒ Day To Day Operational Control
- ☒ Maintain schedule of major construction activities
- ☒ Install, maintain and modify BMPs
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

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6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			243
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [x] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [x] Permanent Planting, Sodding or Seeding
- [x] [x] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [x] [ ] Temporary Pipe Slope Drain
- [x] [x] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [x] [x] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [x] [ ] Inlet Protection
- [x] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [x] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [x] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [x] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

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6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [x] Chemical Management
- [x] Concrete and Materials Waste Management
- [x] Debris and Trash Management
- [x] Dust Control
- [x] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [x] Fire hydrant flushings
- [x] Irrigation drainage
- [x] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [x] Potable water sources
- [x] Springs
- [x] Uncontaminated groundwater
- [x] Water used to wash vehicles or control dust
- [x] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			244
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0269-04-041

1.2 PROJECT LIMITS:
From: UPRR

To: DeWitt C/L

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.305109 ,(Long) -97.154236

END: (Lat) 29.299382 ,(Long) -97.158255

1.4 TOTAL PROJECT AREA (Acres): 3.14

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.48

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

☐ PSLs determined during preconstruction meeting
☐ PSLs determined during construction
☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

☐ Mobilization
☒ Install sediment and erosion controls
☒ Blade existing topsoil into windrows, prep ROW, clear and grub
☒ Remove existing pavement
☒ Grading operations, excavation, and embankment
☐ Excavate and prepare subgrade for proposed pavement widening
☐ Remove existing culverts, safety end treatments (SETs)
☐ Remove existing metal beam guard fence (MBGF), bridge rail
☒ Install proposed pavement per plans
☒ Install culverts, culvert extensions, SETs
☐ Install mow strip, MBGF, bridge rail
☐ Place flex base
☒ Rework slopes, grade ditches
☒ Blade windrowed material back across slopes
☒ Revegetation of unpaved areas
☒ Achieve site stabilization and remove sediment and erosion control measures
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

☒ Sediment laden stormwater from stormwater conveyance over disturbed area
☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
☒ Solvents, paints, adhesives, etc. from various construction activities
☒ Transported soils from offsite vehicle tracking
☒ Construction debris and waste from various construction activities
☐ Contaminated water from excavation or dewatering pump-out water
☒ Sanitary waste from onsite restroom facilities
☒ Trash from various construction activities/receptacles
☐ Long-term stockpiles of material and waste
☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Big Brushy Creek 1602A	Lavaca River Tidal 1601
Lavaca River 1602	Lavaca Bay 2453
	Matagorda Bay 2451

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

☒ Development of plans and specifications
☒ Perform SWP3 inspections
☒ Maintain SWP3 records and update to reflect daily operations
☐ Other: _____
☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

☒ Day To Day Operational Control
☒ Maintain schedule of major construction activities
☒ Install, maintain and modify BMPs
☐ Other: _____
☐ Other: _____

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6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			245
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- ☒ ☐ Protection of Existing Vegetation
- ☐ ☐ Vegetated Buffer Zones
- ☐ ☐ Soil Retention Blankets
- ☐ ☐ Geotextiles
- ☐ ☐ Mulching/ Hydromulching
- ☐ ☐ Soil Surface Treatments
- ☐ ☐ Temporary Seeding
- ☐ ☒ Permanent Planting, Sodding or Seeding
- ☒ ☒ Biodegradable Erosion Control Logs
- ☐ ☐ Rock Filter Dams/ Rock Check Dams
- ☐ ☐ Vertical Tracking
- ☐ ☐ Interceptor Swale
- ☐ ☐ Riprap
- ☐ ☐ Diversion Dike
- ☒ ☐ Temporary Pipe Slope Drain
- ☒ ☒ Embankment for Erosion Control
- ☐ ☐ Paved Flumes
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- ☒ ☒ Biodegradable Erosion Control Logs
- ☐ ☐ Dewatering Controls
- ☒ ☐ Inlet Protection
- ☒ ☐ Rock Filter Dams/ Rock Check Dams
- ☐ ☐ Sandbag Berms
- ☒ ☐ Sediment Control Fence
- ☐ ☐ Stabilized Construction Exit
- ☐ ☐ Floating Turbidity Barrier
- ☐ ☐ Vegetated Buffer Zones
- ☐ ☐ Vegetated Filter Strips
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____
- ☐ ☐ Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- ☒ Excess dirt/mud on road removed daily
- ☐ Haul roads dampened for dust control
- ☒ Loaded haul trucks to be covered with tarpaulin
- ☐ Stabilized construction exit
- ☐ Daily street sweeping
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

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Angela Renger

6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- ☒ Chemical Management
- ☒ Concrete and Materials Waste Management
- ☒ Debris and Trash Management
- ☒ Dust Control
- ☒ Sanitary Facilities
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- ☒ Fire hydrant flushings
- ☒ Irrigation drainage
- ☒ Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- ☒ Potable water sources
- ☒ Springs
- ☒ Uncontaminated groundwater
- ☒ Water used to wash vehicles or control dust
- ☒ Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

 July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			246
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with TxDOT policy for projects disturbing less than 1 acre of soil, and not part of a larger common plan of development.

For projects with less than one acre of soil disturbing activity and that have Environmental, Permits, Issues, and Commitments (EPICs) dependent on stormwater controls and water quality measures TxDOT will maintain a SWP3 with all pertinent records, correspondence, environmental documents, etc. at the project field office, Area Office, or electronically.

This SWP3 is consistent with requirements specified in applicable stormwater plans, and the project's environmental permits, issues, and commitments (EPICs).

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0269-05-037

1.2 PROJECT LIMITS:
From: Lavaca C/L

To: SH 111

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 29.299382 ,(Long) -97.158255

END: (Lat) 29.294684 ,(Long) -97.161526

1.4 TOTAL PROJECT AREA (Acres): 1.37

1.5 TOTAL AREA TO BE DISTURBED (Acres): 0.34

1.6 NATURE OF CONSTRUCTION ACTIVITY:
Construction of curb ramps, sidewalks and miscellaneous pedestrian elements.

1.7 MAJOR SOIL TYPES:

Soil Type	Description

1.8 PROJECT SPECIFIC LOCATIONS (PSLs):
PSLs must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. PSLs may be identified during preconstruction meetings or during the construction process. Please choose from the options below:

- ☐ PSLs determined during preconstruction meeting
- ☐ PSLs determined during construction
- ☐ No PSLs planned for construction

Type	Sheet #s

All off-ROW PSLs required by the Contractor are the Contractor's responsibility. The Contractor shall secure all permits required by local, state, federal laws for off-ROW PSLs. The contractor shall provide diagrams, areas of disturbance, acreage, and BMPs for all off-ROW PSLs within one mile of the project.

1.9 CONSTRUCTION ACTIVITIES:
(Use the following list as a starting point when developing the Construction Activity Schedule and Ceasing Record in Attachment 2.3.)

- ☐ Mobilization
- ☒ Install sediment and erosion controls
- ☒ Blade existing topsoil into windrows, prep ROW, clear and grub
- ☒ Remove existing pavement
- ☒ Grading operations, excavation, and embankment
- ☐ Excavate and prepare subgrade for proposed pavement widening
- ☐ Remove existing culverts, safety end treatments (SETs)
- ☐ Remove existing metal beam guard fence (MBGF), bridge rail
- ☒ Install proposed pavement per plans
- ☒ Install culverts, culvert extensions, SETs
- ☐ Install mow strip, MBGF, bridge rail
- ☐ Place flex base
- ☒ Rework slopes, grade ditches
- ☒ Blade windrowed material back across slopes
- ☒ Revegetation of unpaved areas
- ☒ Achieve site stabilization and remove sediment and erosion control measures
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.10 POTENTIAL POLLUTANTS AND SOURCES:

- ☒ Sediment laden stormwater from stormwater conveyance over disturbed area
- ☒ Fuels, oils, and lubricants from construction vehicles, equipment, and storage
- ☒ Solvents, paints, adhesives, etc. from various construction activities
- ☒ Transported soils from offsite vehicle tracking
- ☒ Construction debris and waste from various construction activities
- ☐ Contaminated water from excavation or dewatering pump-out water
- ☒ Sanitary waste from onsite restroom facilities
- ☒ Trash from various construction activities/receptacles
- ☐ Long-term stockpiles of material and waste
- ☐ Discharges from concrete washout activities, runoff from concrete cutting activities, and other concrete related activities
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

1.11 RECEIVING WATERS:
Receiving waters must be depicted on the Environmental Layout Sheets in Attachment 1.2 of this SWP3. Include Segment # for receiving waters.

Tributaries	Classified Waterbody
Big Brushy Creek 1602A	Lavaca River Tidal 1601
Lavaca River 1602	Lavaca Bay 2453
	Matagorda Bay 2451

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

- ☒ Development of plans and specifications
- ☒ Perform SWP3 inspections
- ☒ Maintain SWP3 records and update to reflect daily operations
- ☐ Other: _____
- ☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

- ☒ Day To Day Operational Control
- ☒ Maintain schedule of major construction activities
- ☒ Install, maintain and modify BMPs
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

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Angela Renger

6/5/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			247
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

STORMWATER POLLUTION PRVENTION PLAN (SWP3):

2.0 BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS, INSPECTION, AND MAINTENANCE

The Contractor shall be the responsible party for implementing the BMPs described herein and for complying with the SWP3 for control of erosion and sedimentation during day-to-day operations. The Contractor shall implement changes to this SWP3 approved by TxDOT within the times specified in this SWP3 or the CGP.

2.1 EROSION CONTROL AND SOIL STABILIZATION BMPs:

T / P

- [x] [ ] Protection of Existing Vegetation
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Soil Retention Blankets
- [ ] [ ] Geotextiles
- [ ] [ ] Mulching/ Hydromulching
- [ ] [ ] Soil Surface Treatments
- [ ] [ ] Temporary Seeding
- [ ] [x] Permanent Planting, Sodding or Seeding
- [x] [x] Biodegradable Erosion Control Logs
- [ ] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Vertical Tracking
- [ ] [ ] Interceptor Swale
- [ ] [ ] Riprap
- [ ] [ ] Diversion Dike
- [x] [ ] Temporary Pipe Slope Drain
- [x] [x] Embankment for Erosion Control
- [ ] [ ] Paved Flumes
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

2.2 SEDIMENT CONTROL BMPs:

T / P

- [x] [x] Biodegradable Erosion Control Logs
- [ ] [ ] Dewatering Controls
- [x] [ ] Inlet Protection
- [x] [ ] Rock Filter Dams/ Rock Check Dams
- [ ] [ ] Sandbag Berms
- [x] [ ] Sediment Control Fence
- [ ] [ ] Stabilized Construction Exit
- [ ] [ ] Floating Turbidity Barrier
- [ ] [ ] Vegetated Buffer Zones
- [ ] [ ] Vegetated Filter Strips
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____
- [ ] [ ] Other: _____

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.4 OFFSITE VEHICLE TRACKING CONTROLS:

- [x] Excess dirt/mud on road removed daily
- [ ] Haul roads dampened for dust control
- [x] Loaded haul trucks to be covered with tarpaulin
- [ ] Stabilized construction exit
- [ ] Daily street sweeping
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

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6/5/2024

2.5 POLLUTION PREVENTION MEASURES:

- [x] Chemical Management
- [x] Concrete and Materials Waste Management
- [x] Debris and Trash Management
- [x] Dust Control
- [x] Sanitary Facilities
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____
- [ ] Other: _____

2.6 VEGETATED BUFFER ZONES:

Natural vegetated buffers shall be maintained as feasible to protect adjacent surface waters. If vegetated natural buffer zones are not feasible due to site geometry, the appropriate additional sediment control measures have been incorporated into this SWP3.

Type	Stationing	
	From	To

Refer to the Environmental Layout Sheets/ SWP3 Layout Sheets located in Attachment 1.2 of this SWP3

2.7 ALLOWABLE NON-STORMWATER DISCHARGES:

- [x] Fire hydrant flushings
- [x] Irrigation drainage
- [x] Pavement washwater (where spills or leaks have not occurred, and detergents are not used)
- [x] Potable water sources
- [x] Springs
- [x] Uncontaminated groundwater
- [x] Water used to wash vehicles or control dust
- [x] Other allowable non-stormwater discharges as allowed by TPDES GP TXR150000.

2.8 DEWATERING:

Dewatering discharges of accumulated stormwater, groundwater, and surface water including discharges from dewatering of trenches, excavations, foundations, vaults, and other points of accumulation are prohibited unless managed by appropriate controls to prevent and minimize the offsite discharge of sediment and other pollutants.

2.9 INSPECTIONS:

All disturbed areas and erosion and sediment control devices shall be inspected at least once every seven (7) days. Inspections shall be performed by TxDOT as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3 .

2.10 MAINTENANCE:

Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. Maintenance shall be performed by the Contractor as indicated on the Field Inspection and Maintenance Report Form 2118 and retained in Attachment 2.3 of this SWP3.

STORMWATER POLLUTION PREVENTION PLAN (SWP3) (Less Than 1 Acre)

July 2023

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
			248
STATE	STATE DIST.	COUNTY	
TEXAS	YKM	COLORADO, ETC.	
CONT.	SECT.	JOB	HIGHWAY NO.
0026	04	048, ETC.	US 90, ETC.

I. STORMWATER POLLUTION PREVENTION

Texas Pollutant Discharge Elimination System (TPDES) TXR 150000: Stormwater Discharge Permit or Construction General Permit is required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 506. If applicable list MS4 operator that may receive discharges from this project. MS4 operator should be notified prior to construction activities.

- ☒ Prevent stormwater pollution erosion and sedimentation in accordance with TPDES Permit TXR 150000.
- ☒ Comply with the SW3P and revise when necessary to control pollution or as required by the Engineer.
- ☐ Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA, or other inspectors.
- ☐ When Contractor project specific locations (PSL) increase disturbed soil area to 5 acres or more, sumbit Notice of Intent (NOI) to TCEQ and Engineer.
- ☐ MS4 Operator(s):

No Additional Comments

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS

United States Army Corps of Engineers (USACE) Permit is required for filling, dredging, excavating or other work in water bodies, rivers, creeks, streams, wetlands or wet areas. The Contractor must adhere to all of the terms and general conditions associated with the following permit(s). If additional work not represented in the plans is required, contact the Engineer immediately.

- ☒ No USACE Permit Required
- ☐ Work is authorized by the USACE under a Nationwide Permit _____ without a Pre-Construction Notification (PCN). Project specific permit was not issued by USACE, therefore is not in the plan set.
- ☐ Work is authorized by the USACE under a Nationwide Permit _____ with a Pre-Construction Notification (PCN). The project specific permit issued by the USACE is included in the plan set.
- ☐ Work is authorized by the USACE under a Individual Permit (IP). The project specific permit issued by the USACE is included in the plan set.
- ☐ Work would be authorized by the USACE. The project specific permit issued by the USACE or Nationwide Permit will be provided to the contractor.

United States Coast Guard (USCG) Permit is required for projects that involve the construction or modification (including changes to lighting) of a bridge or causeway across a water body determined to be navigable by the United States Coast Guard (USCG) under Section 9 of the Rivers and Harbors Act. If additional work not represented in the plans is required, contact the Engineer immediately.

- ☒ No United States Coast Guard (USCG) Coordination Required
- ☐ United States Coast Guard (USCG) Permit
- ☐ United States Coast Guard (USCG) Exemption

Best Management Practices

Erosion	Sedimentation	Post Construction TSS
☒ Temporary Vegetation	☒ Silt Fence	☒ Vegetative Filter Strips
☐ Vegetation Lined Ditches	☐ Rock Filter Dam	☐ Vegetation Lined Ditches
☐ Sodding	☐ Sand Bag Berm	☐ Grassy Swales

No Additional Comments

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the area and contact the Engineer immediately.

No Additional Comments

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical. Refer to TxDOT Standard Specifications 162, 164, 192, 193, 506, 730, 751, and 752 in order to comply with requirements for invasive species, beneficial landscaping and tree/brush removal.

No Additional Comments

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS

If any of the listed species below are observed, cease work in the area, do not disturb species or habitat and contact the Engineer immediately.

The work may not remove active nests (from bridges, structures, or vegetation adjacent to the roadway, etc.) during nesting season (February 15 to October 1). If removal of structures or vegetation is necessary during the nesting season, the Contractor shall conduct a bird survey no more than 3 days in advance of the clearing/demolish start date. All bird surveys shall be conducted by a Field Biologist and adhere to the guidance document “Avoiding Migratory Birds and Handling Potential Violations” found in the TxDOT Environmental Compliance Toolkits at the time of the survey. (See below for Field Biologist and Ornithologist qualifications)

No Additional Comments

Field Biologist, Ornithologist – a field biologist is defined as an individual qualified to perform field investigations, presence/absence surveys and habitat surveys for protected avian species or species of concern. A mandatory bachelor’s degree in biology or a related science is required. At a minimum, the Field Biologist, Ornithologist, shall have completed and reported a minimum of three presence/absence and habitat surveys for protected avian species in the past five years. A minimum of three projects must have been conducted in Texas. Surveys shall have been performed for documentation of species in accordance with a protocol approved by USFWS or TPWD, or following generally accepted methodologies.

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

Refer to TxDOT Standard Specifications in the event potentially contaminated materials are observed, such as dead or distressed vegetation, trash disposal areas, drums, canisters, barrels, leaching or seepage of substances, unusual smells or odors, or stained soil, cease work in the area and contact the Engineer immediately.

Does the project involve any bridge class structure rehabilitation or replacements (bridge class structutres not including box culverts)? Yes ☐ No ☐

TxDOT is still required to notify DSHS 14 working days prior to any scheduled demolition.

The Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

No Additional Comments

VII. GENERAL NOTES

TxDOT has determined that a USACE Nationwide or Individual Permit is not necessary for the project since all work shall be conducted outside the USACE jurisdictional areas. Any impacts to these jurisdictioanl areas by the contractor without a USACE permit will be the responsibility of the contrator. If the contractor deems it necessary to impact the USACE jurisdcitional areas, then it becomes the contractor's entire responsibility to consult with the USACE pertaining to the need for a Nationwide or Individual Permit. TxDOT will then hold the contractor responsible for following all conditions of the approved Permit.

DATE:
FILE:

Version 13.1

Texas Department of Transportation

TxDOT Yoakum District

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

EPIC

FILE: EPIC Sheet.dgn	DN:	CK:	DW:	CK:
© TxDOT: March 2017	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, etc.	US 90, etc.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, etc.		249

DATE: 6/2024
FILE: ec116
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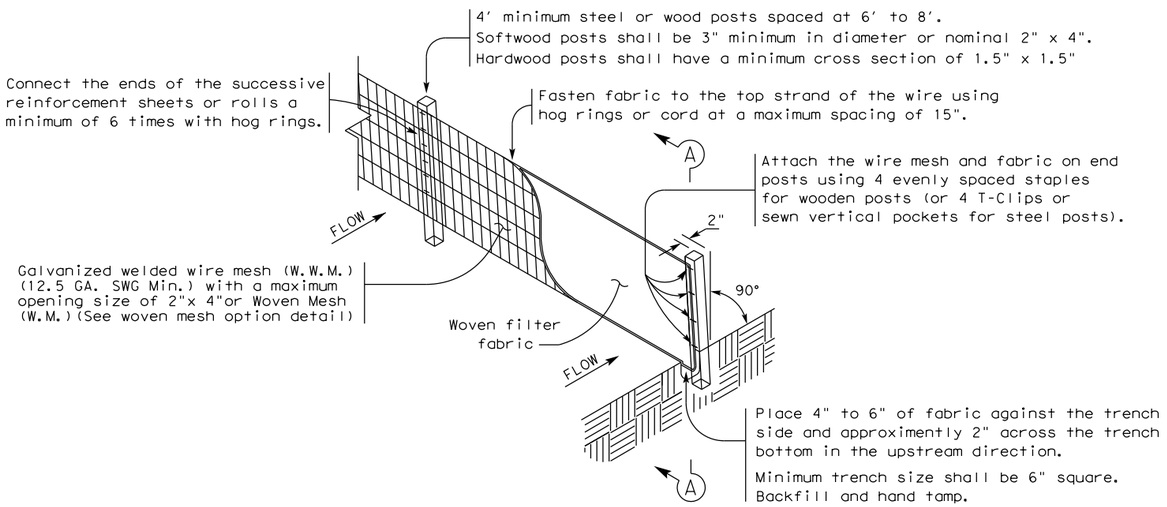
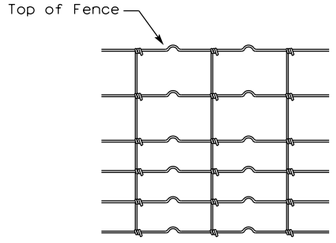
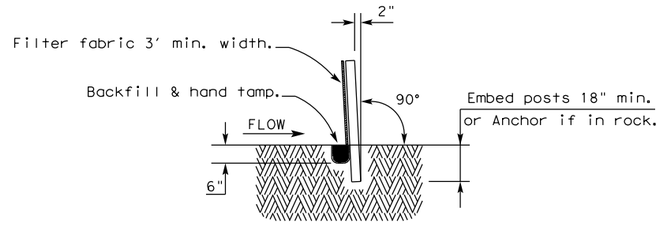


TEMPORARY SEDIMENT CONTROL FENCE

SCF





SECTION A-A

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.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

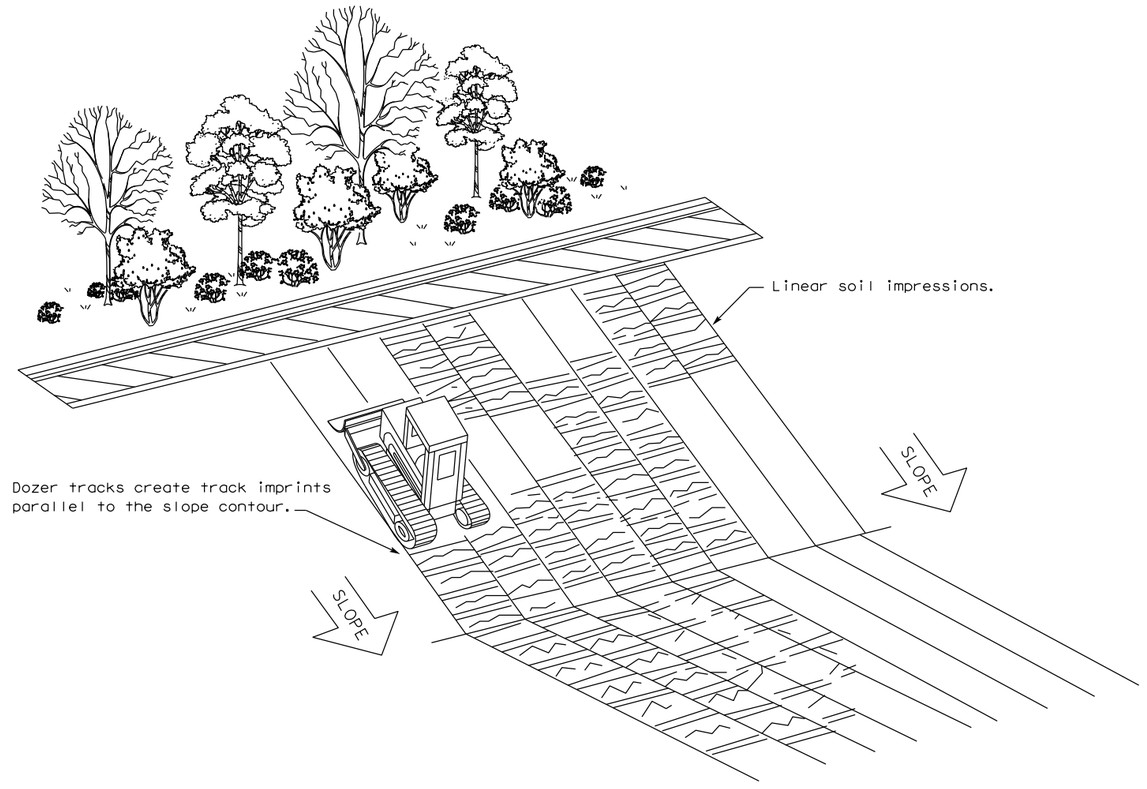
LEGEND

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

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCE & VERTICAL TRACKING

EC(1)-16

FILE: ec116	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS
	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90,ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		250

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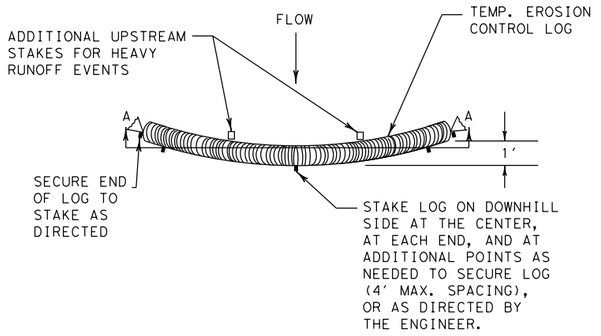
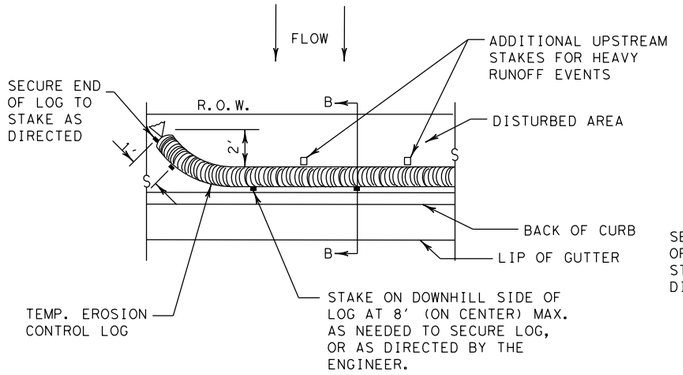


PLAN VIEW



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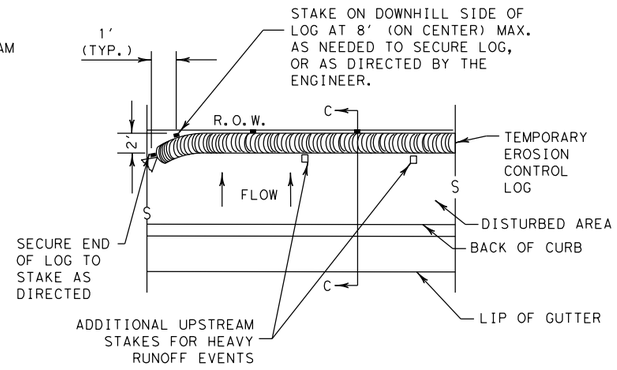

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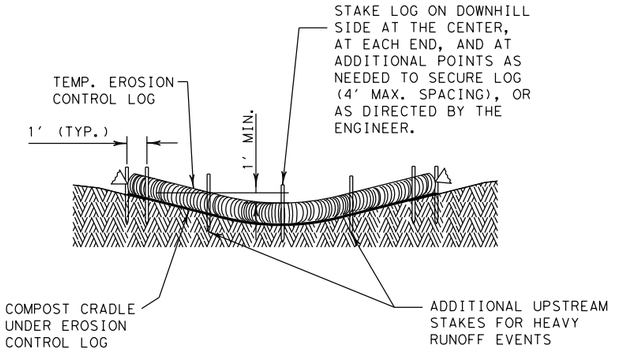
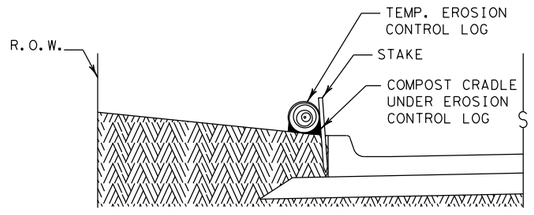


SECTION A-A

EROSION CONTROL LOG DAM

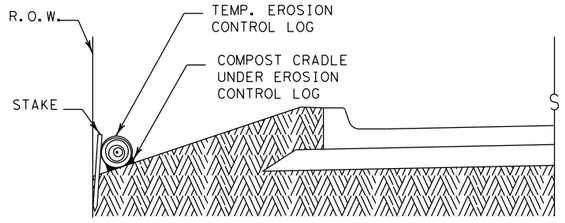
CL-D



SECTION B-B

EROSION CONTROL LOG AT BACK OF CURB

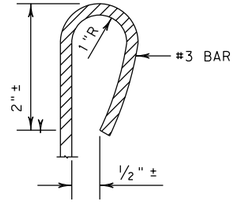
CL-BOC



SECTION C-C

EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY

CL-ROW



REBAR STAKE DETAIL

LEGEND

- CL-D — EROSION CONTROL LOG DAM
- CL-BOC — EROSION CONTROL LOG AT BACK OF CURB
- CL-ROW — EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY
- CL-SST — EROSION CONTROL LOGS ON SLOPES STAKE AND TRENCHING ANCHORING
- CL-SSL — EROSION CONTROL LOGS ON SLOPES STAKE AND LASHING ANCHORING
- CL-DI — EROSION CONTROL LOG AT DROP INLET
- CL-CI — EROSION CONTROL LOG AT CURB INLET
- CL-GI — EROSION CONTROL LOG AT CURB & GRATE INLET

GENERAL NOTES:

1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE ENGINEER.
2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
3. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
7. COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
8. SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT SIZE TO HOLD LOGS IN PLACE.
9. TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.

SEDIMENT BASIN & TRAP USAGE GUIDELINES

An erosion control log sediment trap may be used to filter sediment out of runoff draining from an unstabilized area.

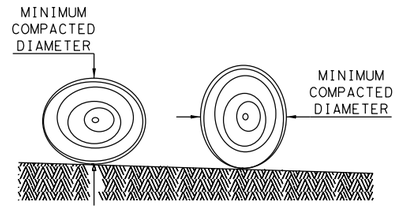
Log Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Control logs should be placed in the following locations:

1. Within drainage ditches spaced as needed or min. 500' on center
2. Immediately preceding ditch inlets or drain inlets
3. Just before the drainage enters a water course
4. Just before the drainage leaves the right of way
5. Just before the drainage leaves the construction limits where drainage flows away from the project.

The logs should be cleaned when the sediment has accumulated to a depth of 1/2 the log diameter.

Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.



DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC(9)-16

FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		251

DATE: 6/10/2024
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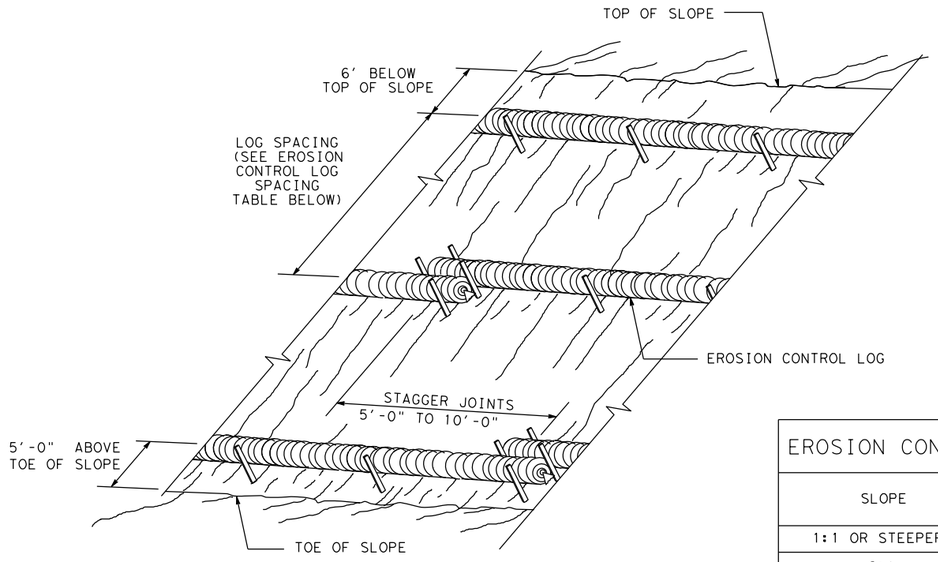
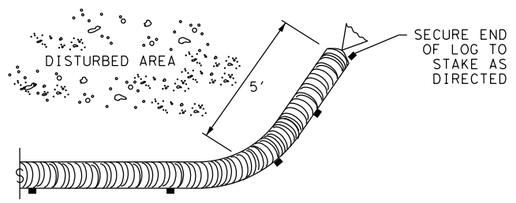


EROSION CONTROL LOGS ON SLOPES
STAKE AND TRENCHING ANCHORING

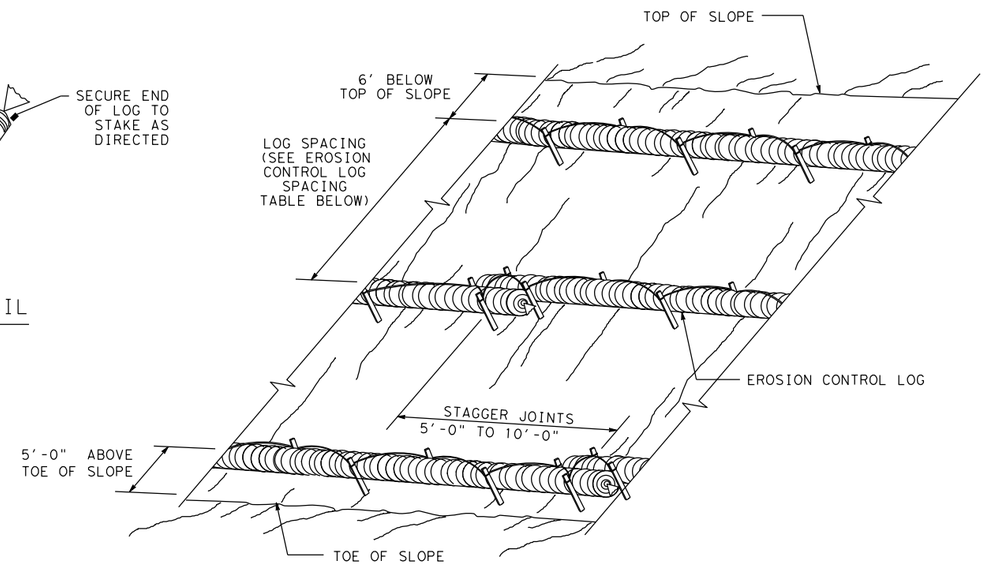
CL-SST



END SECTION RAP DETAIL

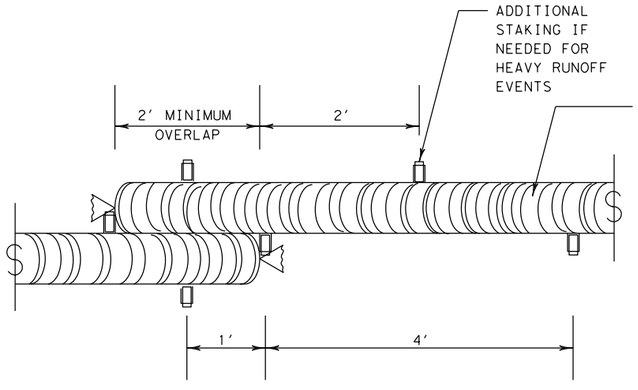
EROSION CONTROL LOG SPACING TABLE				
SLOPE	LOG DIAMETER			
	6"	8"	12"	18"
1:1 OR STEEPER	5'	10'	15'	20'
2:1	10'	20'	30'	40'
3:1	15'	30'	45'	60'
4:1 OR FLATTER	20'	40'	60'	80'

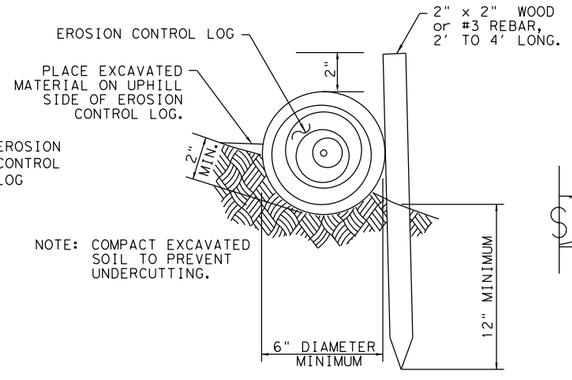
* ADJUSTMENTS CAN BE MADE FOR SOIL TYPE:
SOFT, LOAMY SOILS-ADJUST ROWS CLOSER TOGETHER;
HARD, ROCKY SOILS- ADJUST ROWS FARTHER APART



EROSION CONTROL LOGS ON SLOPES
STAKE AND LASHING ANCHORING

CL-SSL

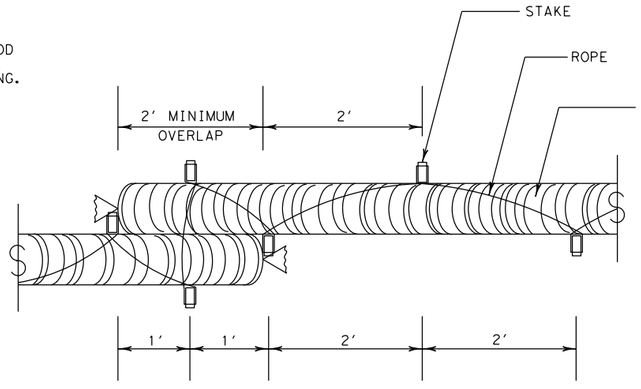


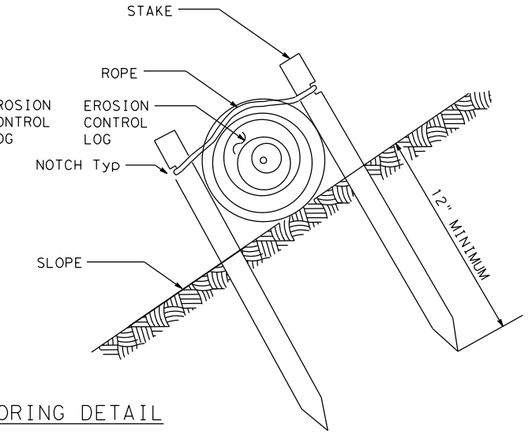


STAKE AND TRENCHING ANCHORING DETAIL

CL-SST

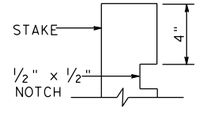
TRENCH DEPTH TABLE	
LOG DIAMETER	DEPTH
6"	2"
8"	3"
12"	4"
18"	5"





STAKE AND LASHING ANCHORING DETAIL

CL-SSL



STAKE NOTCH DETAIL

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC(9)-16

FILE: ec116	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		252

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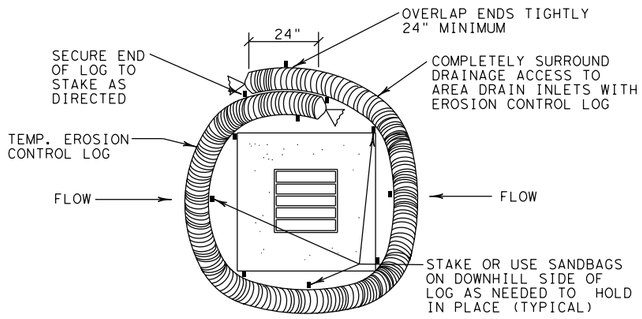
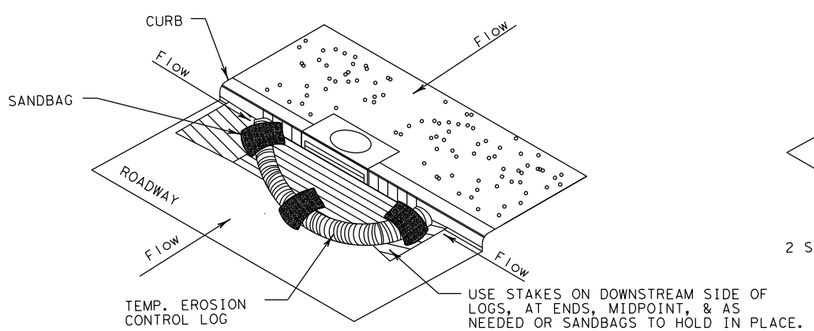


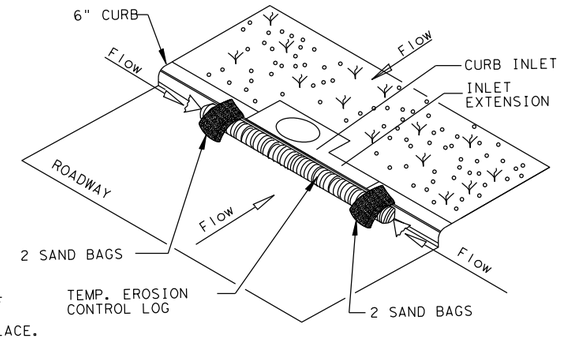
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

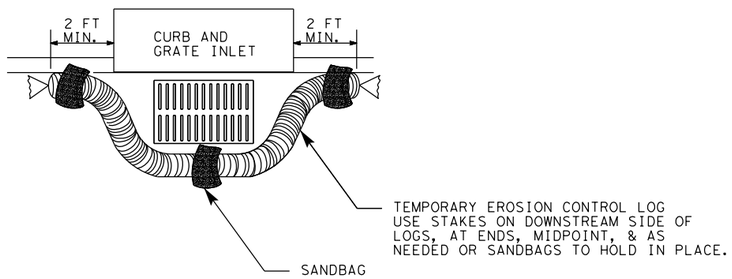
CL-CI



EROSION CONTROL LOG AT CURB INLET

CL-CI

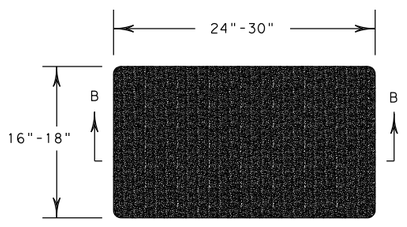
NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



EROSION CONTROL LOG AT CURB & GRADE INLET

CL-GI

SECTION B-B



SANDBAG DETAIL

SHEET 3 OF 3

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC(9)-16

FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	0026	04	048, ETC.	US 90, ETC.
	DIST	COUNTY		SHEET NO.
	YKM	COLORADO, ETC.		253