100% SUBMITTAL

STATE OF TEXAS
DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NO.			
2022 (832) TAPS			
CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		1

FUNCTIONAL CLASS: N/A
DESIGN SPEED: N/A
AADT 2024: N/A
AADT 2024: N/A

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

FEDERAL-AID PROJECT # STP 2022 (832) TAPS

VA

SOMERVELL COUNTY

LIMITS: VARIOUS LOCATIONS IN THE CITY OF GLEN ROSE
PROJECT LENGTH = 9723.91 FT = 1.842 MI

TOTAL PROJECT LENGTH 9723.91 FT = 1.842 MI

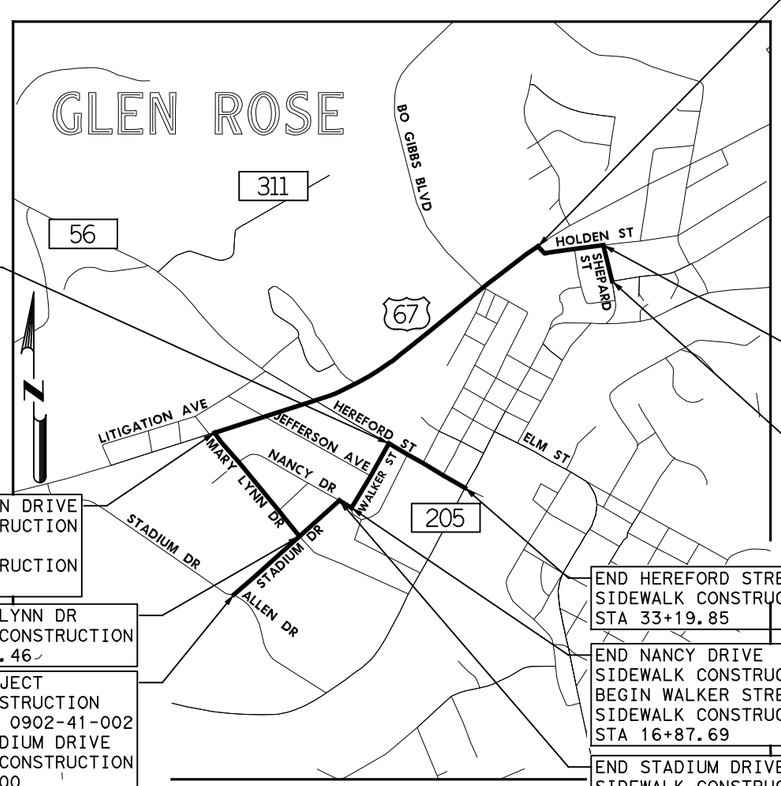
FOR THE CONSTRUCTION OF PEDESTRIAN, SIDEWALKS & CURB RAMPS CONSISTING OF: REMOVAL OF CONCRETE, ADJUSTING MANHOLES, CONCRETE CURB & GUTTER, CONCRETE DRIVEWAYS & SIDEWALKS, SIGNS & PAVEMENT MARKINGS

INDEX OF SHEETS

STATE OF TEXAS
LESLIE D. POLLACK
101285
LICENSED
PROFESSIONAL ENGINEER
04.15.24

Leslie D Pollack

HDR Engineering, Inc.
710 Hesters Crossing, Suite 150
Round Rock, Texas 78681
Texas Registered Engineering Firm F-754



END US 67
SIDEWALK CONSTRUCTION
BEGIN HOLDEN STREET
SIDEWALK CONSTRUCTION
STA 39+15.48

END WALKER STREET
SIDEWALK CONSTRUCTION
BEGIN HEREFORD STREET
SIDEWALK CONSTRUCTION
STA 24+51.42

BEGIN MARY LYNN DRIVE
SIDEWALK CONSTRUCTION
BEGIN US 67
SIDEWALK CONSTRUCTION
STA 0+00.00

END MARY LYNN DR
SIDEWALK CONSTRUCTION
STA 13+95.46

BEGIN PROJECT
BEGIN CONSTRUCTION
BEGIN CSJ 0902-41-002
BEGIN STADIUM DRIVE
SIDEWALK CONSTRUCTION
STA 0+00.00

END HEREFORD STREET
SIDEWALK CONSTRUCTION
STA 33+19.85

END NANCY DRIVE
SIDEWALK CONSTRUCTION
BEGIN WALKER STREET
SIDEWALK CONSTRUCTION
STA 16+87.69

END STADIUM DRIVE
SIDEWALK CONSTRUCTION
BEGIN NANCY DRIVE
SIDEWALK CONSTRUCTION
STA 15+28.79

END HOLDEN STREET
SIDEWALK CONSTRUCTION
BEGIN SHEPARD STREEET
SIDEWALK CONSTRUCTION
STA 46+52.43

END PROJECT
END CONSTRUCTION
END CSJ 0902-41-002
END SHEPARD ST
SIDEWALK CONSTRUCTION
STA 50+08.60

END PROJECT
END CSJ 0902-41-002
STA 50+08.60
REF MARKER N/A
END MP N/A

REGISTERED ACCESSIBILITY SPECIALIST (RAS) INSPECTION REQUIRED.
TDLR NO. EABPRJ: 2024012608

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

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON 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, 10/23/2023)

EXCEPTIONS: NONE
EQUATIONS : NONE
RAILROAD : NONE
EXCEPTIONS : NONE

** THE CITY OF GLEN ROSE HEREBY CONSENTS TO THE MANNER OF CONSTRUCTION AS INDICATED ON THESE PLANS.

DocuSigned by:
Troy Hill
CITY MANAGER — 4/25/2024 DATE

100% SUBMITTAL

FINAL PLANS

DATE OF LETTING: _____
DATE WORK BEGAN: _____
DATE WORK COMPLETED AND ACCEPTED: _____
FINAL CONTRACT COST: $_____
CONTRACTOR: _____
LIST OF APPROVED CHANGE ORDERS:

LETTING DATE: _____
CONTRACTOR: _____
WORK BEGAN: _____
WORK COMPLETED: _____
WORK ACCEPTED: _____
CHANGE ORDERS: _____

Texas Department of Transportation

CORRECT FOR LETTING: 04.15.24
Leslie D Pollack
LESLIE D. POLLACK, PROJECT MANAGER

RECOMMENDED FOR LETTING: 4/19/2024
DocuSigned by:
7879B0B892E51403...
DIRECTOR OF TRANSPORTATION, PLANNING & DEVELOPMENT

SUBMITTED FOR LETTING: 4/18/2024
DocuSigned by:
Sarah S. Homes, PE
AREA ENGINEER

APPROVED FOR LETTING: 4/19/2024
DocuSigned by:
David M Salazar, P.E.
B741E84FAD82411...
DISTRICT ENGINEER

PLOT DRIVER: TXDOT_PDF_BW.pltcfg
USER: RDMAUHAHAN
FILE: GR-SRTS-Title.dgn.DGN
PENTABLE: I0363866_Glen_Rose_SRTS.tbl
DATE: 4/15/2024 TIME: 12:09:55 PM SCALE: 1:1
GR-SRTS-Title.dgn.DGN
4/15/2024 12:09:55 PM $USERNAME$ PEN TABLE: $PENTBLL$

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW

SHEET NUMBERS	DESCRIPTION
	I. GENERAL
1	TITLE SHEET
2	INDEX OF SHEETS
3, 3A-3C	GENERAL NOTES
4	ESTIMATE AND QUANTITY
5 - 12	SUMMARIES
13	PROJECT LAYOUT
14 - 22	TYPICAL SECTIONS
	II. TRAFFIC CONTROL PLAN
23	TRAFFIC CONTROL PLAN GENERAL NOTES
	TRAFFIC CONTROL PLAN STANDARDS
24 - 35	BC (1)-21 - BC (12)-21*
36	TCP (1-4)-18*
37	TCP (2-1)-18*
38	TCP (2-3)-23*
39	WZ (BTS-1)-13*
40	WZ (BTS-2)-13*
	III. ROADWAY PLANS
41 - 86	REMOVAL PLAN
87 - 132	SIDEWALK PLAN
133	DRIVEWAY SCHEDULE
134	SIDEWALK DETAILS
135	DRIVEWAY DETAILS
	ROADWAY STANDARDS
136	CCCG (FTW)*
137	CSWD (FTW)*
138 - 141	PED-18*
141A-141C	PRD-13*
142	MB(1)-21*
143	MB(2)-21*
144	MB(3)-21*
145	MB(4)-21*
146	TSR (4)-13*
147	SMD (GEN)-08*
148	SMD (SLIP-1)-08*
149	SMD (SLIP-2)-08*
	IV TRAFFIC PLANS
150	SOSS
	DELINEATOR AND PAVEMENT MARKING STANDARDS
151	PM(1)-22*
152	PM(4)-22A*
153	PM(AP)-21*
	V. ENVIRONMENTAL
154	EPIC*
155 - 156	SWP3(B)-23*
	ENVIRONMENTAL STANDARDS
157 - 159	EC(9)-16*
160	TPD-19 (AUS)*

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

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

RYAN A. WHITNEY, P.E. (NO. 130723) — 05-03-2024 *DATE*

NO.	DATE	REVISION	APPR BY

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

INDEX OF SHEETS

SHEET 1 OF 1

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST.	COUNTY		SHEET NO.
FTW	SOMERVELL		2

DATE: 5/3/2024 1:17:35 PM
FILE: GR-SRTS--Index01.dgn

Special Notes
Electronic files containing answered pre-letting questions and other project related design information will be placed in the following FTP site periodically.

Check this site for new information. Notices of new postings will not be sent out by the Engineer.

The data located in these files is for non-construction purposes only and can be found at

TxDOT's public FTP site at https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting Responses/.

Access is read-only.

All files in the FTP site are subject to the License Agreement shown on the FTP site.

To obtain a copy of the project plans free of charge, submit a request from the following site: http://www.txdot.gov/business/letting-bids/plans-online.html

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

Area Engineer's Email: sarah.horner@txdot.gov
Assistant Area Engineer's Email: noel.spaar@txdot.gov

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

For Q&A's on Proposals navigate to https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors. Use the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

Single lane closures, except as otherwise shown in the plans, will be restricted to off-peak hours as defined in the following table:

Control: 0902-41-002

County: Somervell

Highway: VA

Peak Hours		Off-Peak Hours	
6 to 9 AM Monday through Friday	3 to 7 PM Monday through Friday	9 AM to 3 PM and 7 PM to 6 AM Monday through Friday	All day Saturday and Sunday

Work that requires closure of multiple travel lanes in the same direction, except as otherwise shown in the plans, are restricted to night hours between 9 PM and 6 AM.

Existing storm sewers and utilities are shown from the best available information. Verify the location of all underground facilities prior to starting work.

For dimensions of right-of-way not shown on the plans, see right-of-way map on file at the TxDOT District Office.

Modifications to Lane Closure / Work Restrictions:

Submit a request in writing for approval by the Engineer a minimum of 10 days in advance of implementing a change to lane closure restrictions.

When deemed necessary, the Engineer will lengthen, shorten, or otherwise modify lane closure restrictions as traffic conditions warrant.

When deemed necessary, the Engineer will modify the list of major events when new events develop, existing events are rescheduled, or when warranted.

Special Events/ Special Situations will be handled on a case-by-case basis. No work restricting lane closures is allowed from 3 PM a day before to 9 AM the day after the Special Event or Special Situation.

Mail box manipulation made necessary because of construction will be in accordance with Item 560 "Mailbox Assemblies," except that this work will not be paid for directly but will subsidiary to the pertinent bid items.

Provide all-weather surface for temporary ingress and egress to adjacent property, as directed. Materials, labor, equipment and incidentals necessary to provide temporary ingress and egress will not be paid for directly, but will be subsidiary to the various bid items.

Where necessary, the governing slopes indicated herein may be varied from the limits shown, to the extent approved.

All driveway openings will be determined by the Engineer and will conform with Texas Department of Transportation "Regulations for Access Driveways to State Highways" adopted September 1953, and revised June 2004.

Locations and lengths of all private entrances are approximate only. The actual locations, lengths, lines and grades are to be determined by the Engineer and shall conform to the regulations of The City of The City of Glen Rose

Do not discolor or damage existing curb and curb and gutter during construction operations. In the event of discoloration or damage, clean or repair as directed.

Remove the grass from the crown of shoulders or pavement edges by blading or other approved methods. Payment for this work will not be made directly, but will be subsidiary to the various items of the contract.

Item 4 – Scope of Work

Reimbursement for project overhead will not be considered until project completion has extended beyond the original Contract Time.

Item 5. Control of the Work

When supplementary bridge plans, shop drawings, shop details, erection drawings, working drawings, forming plans, or other drawings are required, prepare and submit drawings on sheets 8-1/2 by 11 inches, 17 by 22 inches, or full size drawings reduced to half scale if completely legible. If, in the opinion of the Engineer, the drawings are not completely legible, prepare and submit on sheets 22 by 34 inches, with a 1-1/2 inch left margin, and 1/2 inch top, right, and bottom margins.

Submit all sheets with a title in the lower right hand corner. The title must include the sheet index data shown on the lower right corner of the project plans, name of the structure or element or stream, sheet numbering for the shop drawings, name of the fabricator and the name of the Contractor.

Standard Operating Procedure for Alternate Precast Proposal Submission" found online at https://www.txdot.gov/inside-txdot/forms-publications/consultants-contractors/publications/bridge.html#design. Acceptance or denial of an alternate is at the sole discretion of the Engineer. Impacts to the project schedule and any additional costs resulting from the use of alternates are the sole responsibility of the Contractor.

Control: 0902-41-002

County: Somervell

Highway: VA

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 an 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 total area disturbed for this project is 1.34 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. 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. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the right of way. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the right of way to the Engineer and to the local government that operates a separate storm sewer system.

The following Holiday/Event lane closure restriction requirements apply to this project:
No work that restricts or interferes with traffic shall be allowed between 3 PM on the day preceding a Holiday or Event and 9 AM on the day after the Holiday or Event.

Holiday Lane Closure Restrictions	
New Year's Eve and New Year's Day (December 31 through January 1)	3 PM December 30 through 9 AM January 2
Easter Holiday Weekend (Friday through Sunday)	3PM Thursday through 9 AM Monday
Memorial Day Weekend (Friday through Monday)	3 PM Thursday through 9 AM Tuesday
Independence Day (July 3 through July 5)	3 PM July 2 through 9 AM July 6
Labor Day Weekend (Friday through	3 PM Thursday through 9 AM Tuesday

Monday)	
Thanksgiving Holiday (Wednesday through Sunday)	3 PM Tuesday through 9 AM Monday
Christmas Holiday (December 23 through December 26)	3 PM December 22 through 9 AM December 27

Plan work schedules around the appropriate dates above to ensure productive work is performed without lane closures.

Item 8. Prosecution and Progress

Working days will be computed and charged in accordance with Section 8.3.1.1, 'Five-Day Workweek.'

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 typically 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.

Permanent signs may be installed when construction in an area is complete and they will not conflict with the traffic control plan for the remainder of the job.

Existing signs are to remain as long as they do not interfere with construction and they do not conflict with the traffic control plan.

Any sign not detailed in the plans but called for in the layout will be as shown in the current "Standard Highway Sign Designs for Texas".

When traffic is obstructed, arrange warning devices in accordance with the latest edition of the "Texas Manual on Uniform Traffic Control Devices".

Cover or remove any work zone signs when work or condition referenced is not occurring.

Control: 0902-41-002

County: Somervell

Highway: VA

Do not place barricades, signs, or any other traffic control devices where they interfere with sight distance at driveways or side streets. Provide access to all driveways during all phases of construction unless otherwise noted in the plans or as directed.

Item 506. Temporary Erosion, Sedimentation, and Environmental Controls

The SW3P for this project will consist of using the following items as directed:

- Erosion control logs

Remove accumulated sediment or replace SW3P controls when the capacity has been reduced by 50% or when the depth of sediment at the control structure exceeds one foot.

Items 530 And 531. Intersections, Driveways and Turnouts, and Sidewalks

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.

Item 666. Reflectorized Pavement Markings with Retroreflective Requirements

Collection of retroreflectivity readings using a mobile retroreflectometer is the preferred method. If retroreflectivity readings are collected using a portable or handheld unit, then measurement is defined as a collective average of at least 20 readings taken along a 200-foot test section. A minimum of three measurements will be required per mile of roadway. Measurements collected on a centerline stripe will be averaged separately for stripe in each direction of travel. A TxDOT inspector must witness the calibration and collection of all retro-reflectivity data.

Item 6001. Portable Changeable Message Signs

Provide all portable changeable message signs and arrow panels with a photoelectric device to allow for automatic dimming of operations to approximately 50% of their normal brightness when ambient light drops to approximately five footcandles, and then increase back again for daytime operations.

One (1) electronic portable changeable message sign unit will be required. Individual or collective use of signs will be required by the Engineer when deemed necessary to supplement the traffic control plan.

Each sign must have programmed in its permanent memory the following 15 messages:

1. Exit Closed Ahead
2. Use Other Routes
3. Right Lane
4. Left Lane

Control: 0902-41-002

County: Somervell

Highway: VA

5. Closed Ahead
6. Two Lane
7. Detour Ahead
8. Thru Traffic
9. Prepare To Stop
10. Merging Traffic
11. Expect 15 Minute Delay
12. Max Speed ** MPH
13. Merge Right
14. Merge Left
15. No Exit Next ** Miles

Item 6185. Truck Mounted Attenuator (TMA) and Trailer Attenuator (TA)

In addition to the shadow vehicles with truck mounted attenuator (TMA) that are specified as being required on the traffic control plan for this project, provide 1 additional shadow vehicle(s) with TMA for TCP (2-3)-23 as detailed on General Note of this standard sheet.

Therefore, 1 total shadow vehicles with TMA will be required for this type of work. Determine if one or more of these operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0902-41-002 **DISTRICT** Fort Worth **COUNTY** Somervell
HIGHWAY Various

						TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB		**0902-41-002**			
		PROJECT ID		**A00182800**			
		COUNTY		**Somervell**			
		HIGHWAY		**Various**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL		
	104-6017	REMOVING CONC (DRIVEWAYS)	SY	1,771.000		1,771.000	
	104-6029	REMOVING CONC (CURB OR CURB & GUTTER)	LF	1,457.000		1,457.000	
	104-6036	REMOVING CONC (SIDEWALK OR RAMP)	SY	62.000		62.000	
	105-6011	REMOVING STAB BASE AND ASPH PAV (2"-6")	SY	442.000		442.000	
	110-6003	EXCAVATION (SPECIAL)	CY	10.000		10.000	
	132-6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	8.000		8.000	
	164-6001	BROADCAST SEED (PERM) (RURAL) (SANDY)	SY	773.000		773.000	
	427-6002	CONCRETE PAINT FINISH	SF	156.000		156.000	
	432-6001	RIPRAP (CONC)(4 IN)	CY	2.000		2.000	
	450-6048	RAIL (HANDRAIL)(TY B)	LF	39.000		39.000	
	479-6004	ADJUSTING MANHOLES (SANITARY)	EA	4.000		4.000	
	479-6005	ADJUSTING MANHOLES (WATER VALVE BOX)	EA	5.000		5.000	
	479-6008	ADJUSTING MANHOLES (WATER METER)	EA	10.000		10.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	13.000		13.000	
	506-6040	BIODEG EROSN CONT LOGS (INSTL) (8")	LF	108.000		108.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	108.000		108.000	
	529-6005	CONC CURB (MONO) (TY II)	LF	50.000		50.000	
	529-6008	CONC CURB & GUTTER (TY II)	LF	2,226.000		2,226.000	
	529-6016	CONC CURB (TY F1)	LF	14.000		14.000	
	530-6004	DRIVEWAYS (CONC)	SY	1,774.000		1,774.000	
	531-6001	CONC SIDEWALKS (4")	SY	3,549.000		3,549.000	
	531-6004	CURB RAMPS (TY 1)	EA	4.000		4.000	
	531-6005	CURB RAMPS (TY 2)	EA	8.000		8.000	
	531-6010	CURB RAMPS (TY 7)	EA	14.000		14.000	
	531-6013	CURB RAMPS (TY 10)	EA	4.000		4.000	
	531-6033	CONC SIDEWALKS (SPECIAL) (TYPE B)	SY	570.000		570.000	
	560-6025	RELOCATE EXISTING MAILBOX	EA	2.000		2.000	
	624-6010	GROUND BOX TY D (162922)W/APRON	EA	1.000		1.000	
	644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	4.000		4.000	
	644-6068	RELOCATE SM RD SN SUP&AM TY 10BWG	EA	19.000		19.000	
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	847.000		847.000	
	666-6170	REFL PAV MRK TY II (W) 4" (SLD)	LF	104.000		104.000	
	666-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	847.000		847.000	
	666-6303	RE PM W/RET REQ TY I (W)4"(SLD)(100MIL)	LF	104.000		104.000	
	668-6113	PRE PM TY C(ACC PRK)(BL&WH)(W/BORDR)LG	EA	1.000		1.000	
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	68.000		68.000	

Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0902-41-002 **DISTRICT** Fort Worth **COUNTY** Somervell
HIGHWAY Various

						TOTAL EST.	TOTAL FINAL
		CONTROL SECTION JOB		**0902-41-002**			
		PROJECT ID		**A00182800**			
		COUNTY		**Somervell**			
		HIGHWAY		**Various**			
ALT	**BID CODE**	**DESCRIPTION**	**UNIT**	EST.	FINAL		
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	500.000		500.000	
	677-6017	ELIM EXT PAV MRK & MRKS (SYMBOL)	EA	1.000		1.000	
	678-6001	PAV SURF PREP FOR MRK (4")	LF	104.000		104.000	
	678-6008	PAV SURF PREP FOR MRK (24")	LF	847.000		847.000	
	690-6123	RELOCATE OF PEDESTRIAN PUSH BUTTON	EA	1.000		1.000	
	752-6006	TREE REMOVAL (12" - 18" DIA)	EA	1.000		1.000	
	752-6023	TREE TRIMMING	EA	13.000		13.000	
	1004-6001	TREE PROTECTION	EA	13.000		13.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	215.000		215.000	
	6027-6010	GROUND BOX W/ APRON (ADJUST)	EA	4.000		4.000	
	6185-6002	TMA (STATIONARY)	DAY	215.000		215.000	
	08	CONTRACTOR FORCE ACCOUNT SAFETY CONTINGENCY (NON-PARTICIPATING)	LS	1.000		1.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000	

100% PLANS SUBMITTAL
DW: RW | CK: DR | DW: RD | CK: RW

REMOVAL QUANTITIES

LOCATION	104 6017	104 6029	104 6036	105 6011
	REMOVING CONC (DRIVEWAYS)	REMOVING CONC (CURB OR CURB & GUTTER)	REMOVING CONC (SIDEWALK OR RAMP)	REMOVING STAB BASE AND ASPH PAV (2"-6")
	SY	LF	SY	SY
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Sheet 18 of 46	55	16	-	-
Sheet 19 of 46	40	-	-	-
Sheet 20 of 46	50	-	-	-
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Sheet 23 of 46	23	-	-	-
Sheet 24 of 46	55	-	-	-
Sheet 25 of 46	146	-	-	-
Sheet 26 of 46	24	15	-	-
Sheet 27 of 46	22	-	-	-
Sheet 28 of 46	34	31	11	-
Sheet 29 of 46	38	-	-	-
Sheet 30 of 46	41	-	-	-
Sheet 31 of 46	18	-	-	-
Sheet 32 of 46	-	-	-	-
Sheet 33 of 46	13	-	-	-
Sheet 34 of 46	180	-	-	-
Sheet 35 of 46	27	-	-	-
Sheet 36 of 46	32	-	-	-
Sheet 37 of 46	-	-	-	-
Sheet 38 of 46	-	16	-	-
Sheet 39 of 46	36	-	-	-
Sheet 40 of 46	50	-	-	-
Sheet 41 of 46	19	-	-	-
Sheet 42 of 46	41	89	-	-
Sheet 43 of 46	62	147	-	-
Sheet 44 of 46	34	162	-	-
Sheet 45 of 46	-	112	-	-
Sheet 46 of 46	33	163	-	-
PROJECT TOTALS	1771	1457	62	442

DATE: 4/12/2024 6:21:41 PM
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HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SUMMARIES

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		5

100% PLANS SUBMITTAL
DW: RW | CK: DR | DW: RD | CK: RW

REMOVAL QUANTITIES

LOCATION	677 6001	677 6003	677 6017
	ELIM EXT PAV MRK & MRKS (4")	ELIM EXT PAV MRK & MRKS (8")	ELIM EXT PAV MRK & MRKS (SYMBOL)
	LF	LF	LF
Sheet 1 of 46	-	125	-
Sheet 2 of 46	-	-	-
Sheet 3 of 46	-	-	-
Sheet 4 of 46	-	-	-
Sheet 5 of 46	-	375	-
Sheet 6 of 46	-	-	-
Sheet 7 of 46	-	-	-
Sheet 8 of 46	-	-	-
Sheet 9 of 46	-	-	-
Sheet 10 of 46	-	-	-
Sheet 11 of 46	-	-	-
Sheet 12 of 46	-	-	-
Sheet 13 of 46	-	-	-
Sheet 14 of 46	-	-	-
Sheet 15 of 46	-	-	-
Sheet 16 of 46	-	-	-
Sheet 17 of 46	68	-	1
Sheet 18 of 46	-	-	-
Sheet 19 of 46	-	-	-
Sheet 20 of 46	-	-	-
Sheet 21 of 46	-	-	-
Sheet 22 of 46	-	-	-
Sheet 23 of 46	-	-	-
Sheet 24 of 46	-	-	-
Sheet 25 of 46	-	-	-
Sheet 26 of 46	-	-	-
Sheet 27 of 46	-	-	-
Sheet 28 of 46	-	-	-
Sheet 29 of 46	-	-	-
Sheet 30 of 46	-	-	-
Sheet 31 of 46	-	-	-
Sheet 32 of 46	-	-	-
Sheet 33 of 46	-	-	-
Sheet 34 of 46	-	-	-
Sheet 35 of 46	-	-	-
Sheet 36 of 46	-	-	-
Sheet 37 of 46	-	-	-
Sheet 38 of 46	-	-	-
Sheet 39 of 46	-	-	-
Sheet 40 of 46	-	-	-
Sheet 41 of 46	-	-	-
Sheet 42 of 46	-	-	-
Sheet 43 of 46	-	-	-
Sheet 44 of 46	-	-	-
Sheet 45 of 46	-	-	-
Sheet 46 of 46	-	-	-
PROJECT TOTALS	68	500	1

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HDR Engineering, Inc
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SUMMARIES

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		6

100% PLANS SUBMITTAL

DW:	RW
CK:	DR
DW:	RD
CK:	RW

SIDEWALK QUANTITIES

LOCATION	110 6003	132 6003	164 6001	427 6002	432 6001	450 6048
	EXCAVATION (SPECIAL)	EMBANKMENT (FINAL) (ORD COMP) (TYPE B)	BROADCAST SEED (PERM) (RURAL) (SANDY)	CONCRETE PAINT FINISH	RIP RAP (CONC) (4 IN)	RAIL (HANDRAIL)(TY B)
	CY	CY	SY	SF	CY	LF
Sheet 1 of 46	-	-	-	-	-	-
Sheet 2 of 46	-	-	-	-	-	-
Sheet 3 of 46	-	-	-	-	-	-
Sheet 4 of 46	-	-	-	-	-	-
Sheet 5 of 46	-	-	-	-	-	-
Sheet 6 of 46	-	-	-	-	-	-
Sheet 7 of 46	-	-	-	-	-	-
Sheet 8 of 46	-	-	-	-	-	-
Sheet 9 of 46	-	-	-	-	-	-
Sheet 10 of 46	-	-	-	-	-	-
Sheet 11 of 46	-	-	-	-	-	-
Sheet 12 of 46	-	-	-	-	2	-
Sheet 13 of 46	-	-	-	-	-	-
Sheet 14 of 46	-	-	-	-	-	-
Sheet 15 of 46	-	-	-	-	-	-
Sheet 16 of 46	-	-	-	-	-	39
Sheet 17 of 46	-	-	-	-	-	-
Sheet 18 of 46	-	-	-	-	-	-
Sheet 19 of 46	-	-	-	-	-	-
Sheet 20 of 46	-	-	-	-	-	-
Sheet 21 of 46	-	-	-	-	-	-
Sheet 22 of 46	-	-	-	-	-	-
Sheet 23 of 46	-	-	-	-	-	-
Sheet 24 of 46	-	-	-	-	-	-
Sheet 25 of 46	-	-	-	-	-	-
Sheet 26 of 46	-	-	-	-	-	-
Sheet 27 of 46	-	-	-	-	-	-
Sheet 28 of 46	-	-	-	-	-	-
Sheet 29 of 46	-	-	-	-	-	-
Sheet 30 of 46	-	-	-	-	-	-
Sheet 31 of 46	-	-	-	-	-	-
Sheet 32 of 46	-	-	-	-	-	-
Sheet 33 of 46	6	3	53	-	-	-
Sheet 34 of 46	2	2	138	-	-	-
Sheet 35 of 46	-	-	108	-	-	-
Sheet 36 of 46	2	3	186	-	-	-
Sheet 37 of 46	-	-	221	-	-	-
Sheet 38 of 46	-	-	67	-	-	-
Sheet 39 of 46	-	-	-	-	-	-
Sheet 40 of 46	-	-	-	-	-	-
Sheet 41 of 46	-	-	-	-	-	-
Sheet 42 of 46	-	-	-	-	-	-
Sheet 43 of 46	-	-	-	-	-	-
Sheet 44 of 46	-	-	-	-	-	-
Sheet 45 of 46	-	-	-	-	-	-
Sheet 46 of 46	-	-	-	156	-	-
PROJECT TOTALS	10	8	773	156	2	39

HDR Engineering, Inc
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Texas Department of Transportation

SAFE ROUTES

SUMMARIES

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		7

DATE: 5/28/2024 2:06:04 PM
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100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:	
RW		DR	RD	RW

SIDEWALK QUANTITIES

LOCATION	479 6004	479 6005	479 6008	502 6001	506 6040	506 6043
	ADJUSTING MANHOLES (SANITARY)	ADJUSTING MANHOLES (WATER VALVE BOX)	ADJUSTING MANHOLES (WATER METER)	BARRICADES, SIGNS AND TRAFFIC HANDLING	BIODEG EROSN CONT LOGS (INSTL) (8")	BIODEG EROSN CONT LOGS (REMOVE)
	EA	EA	EA	MO	LF	LF
Sheet 1 of 46	-	-	-	-	-	-
Sheet 2 of 46	-	-	-	-	-	-
Sheet 3 of 46	-	-	-	-	12	12
Sheet 4 of 46	-	-	-	-	-	-
Sheet 5 of 46	-	-	-	-	12	12
Sheet 6 of 46	-	-	-	-	-	-
Sheet 7 of 46	-	-	1	-	-	-
Sheet 8 of 46	1	1	1	-	-	-
Sheet 9 of 46	1	-	-	-	-	-
Sheet 10 of 46	-	-	-	-	-	-
Sheet 11 of 46	-	-	-	-	-	-
Sheet 12 of 46	-	-	-	-	-	-
Sheet 13 of 46	-	-	-	-	-	-
Sheet 14 of 46	1	-	-	-	-	-
Sheet 15 of 46	-	-	-	-	-	-
Sheet 16 of 46	-	-	1	-	-	-
Sheet 17 of 46	-	2	-	-	-	-
Sheet 18 of 46	-	-	-	-	-	-
Sheet 19 of 46	-	-	-	-	-	-
Sheet 20 of 46	-	1	2	-	-	-
Sheet 21 of 46	-	1	-	-	-	-
Sheet 22 of 46	-	-	-	-	-	-
Sheet 23 of 46	-	-	-	-	-	-
Sheet 24 of 46	-	-	-	-	-	-
Sheet 25 of 46	-	-	-	-	-	-
Sheet 26 of 46	-	-	-	-	24	24
Sheet 27 of 46	-	-	-	-	12	12
Sheet 28 of 46	-	-	-	-	-	-
Sheet 29 of 46	-	-	-	-	-	-
Sheet 30 of 46	-	-	-	-	-	-
Sheet 31 of 46	-	-	-	-	12	12
Sheet 32 of 46	-	-	-	-	12	12
Sheet 33 of 46	-	-	-	-	-	-
Sheet 34 of 46	-	-	-	-	-	-
Sheet 35 of 46	-	-	-	-	-	-
Sheet 36 of 46	-	-	-	-	-	-
Sheet 37 of 46	-	-	-	-	-	-
Sheet 38 of 46	-	-	-	-	16	16
Sheet 39 of 46	-	-	-	-	-	-
Sheet 40 of 46	-	-	-	-	-	-
Sheet 41 of 46	-	-	-	-	8	8
Sheet 42 of 46	-	-	-	-	-	-
Sheet 43 of 46	-	-	-	-	-	-
Sheet 44 of 46	1	-	5	-	-	-
Sheet 45 of 46	-	-	-	-	-	-
Sheet 46 of 46	-	-	-	-	-	-
PROJECT TOTALS	4	5	10	13	108	108

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Texas Department of Transportation

SAFE ROUTES

SUMMARIES

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		8

DATE: 4/12/2024 4:07:50 PM
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100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:	DW:
RW	DR	RD	RW	

SIDEWALK QUANTITIES

LOCATION	529 6005	529 6008	529 6016	530 6004	531 6001	531 6004	531 6005
	6" CONC CURB (MONO) (TY II)	CONC CURB & GUTTER (TY II)	CONC CURB (TY F1)	DRIVEWAYS (CONC)	CONC SIDEWALKS (4")	CURB RAMPS (TY 1)	CURB RAMPS (TY 2)
	LF	LF	LF	SY	SY	EA	EA
Sheet 1 of 46	-	8	-	-	34	-	-
Sheet 2 of 46	-	125	-	101	79	-	-
Sheet 3 of 46	-	168	-	-	132	-	-
Sheet 4 of 46	-	-	-	93	84	-	-
Sheet 5 of 46	-	197	-	-	94	1	2
Sheet 6 of 46	-	-	-	21	101	-	-
Sheet 7 of 46	-	-	-	36	79	-	-
Sheet 8 of 46	-	-	-	34	118	-	2
Sheet 9 of 46	-	-	-	150	80	-	-
Sheet 10 of 46	-	18	-	-	89	-	-
Sheet 11 of 46	-	-	-	63	67	-	-
Sheet 12 of 46	-	214	-	28	118	-	1
Sheet 13 of 46	-	172	-	-	86	-	-
Sheet 14 of 46	-	140	-	99	73	-	-
Sheet 15 of 46	-	200	-	22	84	-	-
Sheet 16 of 46	50	152	14	-	86	2	-
Sheet 17 of 46	-	34	-	11	55	-	1
Sheet 18 of 46	-	15	-	55	60	-	-
Sheet 19 of 46	-	-	-	40	107	-	-
Sheet 20 of 46	-	-	-	50	90	-	-
Sheet 21 of 46	-	61	-	-	90	-	-
Sheet 22 of 46	-	-	-	43	100	-	-
Sheet 23 of 46	-	-	-	23	16	-	-
Sheet 24 of 46	-	-	-	55	84	-	-
Sheet 25 of 46	-	-	-	146	89	-	-
Sheet 26 of 46	-	15	-	24	63	-	-
Sheet 27 of 46	-	-	-	22	110	-	-
Sheet 28 of 46	-	32	-	34	72	-	1
Sheet 29 of 46	-	-	-	38	49	-	-
Sheet 30 of 46	-	-	-	41	101	-	-
Sheet 31 of 46	-	-	-	18	112	-	-
Sheet 32 of 46	-	-	-	-	124	-	-
Sheet 33 of 46	-	-	-	13	81	-	-
Sheet 34 of 46	-	-	-	180	7	-	-
Sheet 35 of 46	-	-	-	27	15	-	-
Sheet 36 of 46	-	-	-	32	13	-	-
Sheet 37 of 46	-	-	-	-	-	-	-
Sheet 38 of 46	-	16	-	-	42	-	-
Sheet 39 of 46	-	-	-	36	99	-	-
Sheet 40 of 46	-	-	-	50	86	-	-
Sheet 41 of 46	-	-	-	19	63	-	-
Sheet 42 of 46	-	70	-	41	76	-	-
Sheet 43 of 46	-	133	-	62	86	-	-
Sheet 44 of 46	-	164	-	34	102	-	-
Sheet 45 of 46	-	118	-	-	59	1	1
Sheet 46 of 46	-	174	-	33	94	-	-
PROJECT TOTALS	50	2,226	14	1,774	3,549	4	8

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Texas Department of Transportation

SAFE ROUTES

SUMMARIES

SHEET 5 OF 8

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		9

DATE: 5/22/2024 5:11:27 PM
FILE: GR-SRTS-SUMMARIES05.dgn

100% PLANS SUBMITTAL

DW:	RW	CK:	DR	DW:	RD	CK:	RW

SIDEWALK QUANTITIES

LOCATION	531 6010	531 6013	531 6033	560 6025	624 6010	644 6001
	CURB RAMPS (TY 7)	CURB RAMPS (TY 10)	CONC SIDEWALKS (SPECIAL) (TYPE B)	RELOCATE EXISTING MAILBOX	GOUND BOX TY D (162922) W/ APRON	IN SM RD SN SUP&AM TY10BWG(1)SA(P)
	EA	EA	SY	EA	EA	EA
Sheet 1 of 46	-	-	-	-	-	-
Sheet 2 of 46	-	-	-	-	-	-
Sheet 3 of 46	-	-	-	-	-	-
Sheet 4 of 46	-	-	-	-	-	-
Sheet 5 of 46	3	-	-	-	-	-
Sheet 6 of 46	-	-	-	-	-	-
Sheet 7 of 46	-	-	-	-	-	-
Sheet 8 of 46	-	-	-	-	1	2
Sheet 9 of 46	-	-	-	-	-	-
Sheet 10 of 46	2	-	-	-	-	-
Sheet 11 of 46	-	-	-	-	-	-
Sheet 12 of 46	1	-	-	-	-	-
Sheet 13 of 46	0	2	-	-	-	-
Sheet 14 of 46	-	-	-	-	-	-
Sheet 15 of 46	-	-	-	-	-	-
Sheet 16 of 46	-	-	5	-	-	-
Sheet 17 of 46	-	-	-	-	-	-
Sheet 18 of 46	2	-	-	-	-	-
Sheet 19 of 46	-	-	-	-	-	-
Sheet 20 of 46	-	-	-	-	-	-
Sheet 21 of 46	-	2	-	-	-	-
Sheet 22 of 46	-	-	-	-	-	-
Sheet 23 of 46	-	-	-	-	-	-
Sheet 24 of 46	-	-	-	-	-	-
Sheet 25 of 46	-	-	-	-	-	-
Sheet 26 of 46	2	-	-	-	-	-
Sheet 27 of 46	-	-	-	-	-	-
Sheet 28 of 46	-	-	-	-	-	-
Sheet 29 of 46	-	-	-	-	-	-
Sheet 30 of 46	-	-	-	-	-	-
Sheet 31 of 46	-	-	-	-	-	-
Sheet 32 of 46	-	-	-	-	-	-
Sheet 33 of 46	-	-	34	-	-	-
Sheet 34 of 46	-	-	107	-	-	-
Sheet 35 of 46	-	-	115	-	-	-
Sheet 36 of 46	-	-	117	-	-	-
Sheet 37 of 46	-	-	145	-	-	-
Sheet 38 of 46	2	-	47	-	-	-
Sheet 39 of 46	-	-	-	-	-	-
Sheet 40 of 46	-	-	-	-	-	-
Sheet 41 of 46	-	-	-	-	-	-
Sheet 42 of 46	2	-	-	1	-	-
Sheet 43 of 46	-	-	-	1	-	-
Sheet 44 of 46	-	-	-	-	-	-
Sheet 45 of 46	-	-	-	-	-	2
Sheet 46 of 46	-	-	-	-	-	-
PROJECT TOTALS	14	4	570	2	1	4

HDR Engineering, Inc
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SAFE ROUTES

SUMMARIES

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		10

DATE: 4/12/2024 4:08:00 PM
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100% PLANS SUBMITTAL

DW:	RW	CK:	RW
	DR	DW:	RD
	CK:		

SIDEWALK QUANTITIES

LOCATION	644 6068	666 6048	666 6170	666 6182	666 6303	668 6113
	RELOCATE SM RD SN SUP&AM TY 10 BWG	REFL PAV MRK TY I (W) 24" (SLD) (100 MIL)	REFL PAV MRK TY II (W) 4" (SLD)	REFL PAV MRK TY II (W) 24" (SLD)	RE PM W/RET REQ TY I (W) 4" (SLD) (100MIL)	PRE PM TY C(ACC PRK) (BL&WH) (W/BORDR) LG
	EA	LF	LF	LF	LF	EA
Sheet 1 of 46	-	-	-	-	-	-
Sheet 2 of 46	1	-	-	-	-	-
Sheet 3 of 46	-	-	-	-	-	-
Sheet 4 of 46	-	-	-	-	-	-
Sheet 5 of 46	1	221	-	221	-	-
Sheet 6 of 46	1	-	-	-	-	-
Sheet 7 of 46	1	-	-	-	-	-
Sheet 8 of 46	2	30	-	30	-	-
Sheet 9 of 46	-	-	-	-	-	-
Sheet 10 of 46	1	52	-	52	-	-
Sheet 11 of 46	-	-	-	-	-	-
Sheet 12 of 46	-	54	-	54	-	-
Sheet 13 of 46	-	54	-	54	-	-
Sheet 14 of 46	-	-	-	-	-	-
Sheet 15 of 46	-	-	-	-	-	-
Sheet 16 of 46	2	54	-	54	-	-
Sheet 17 of 46	-	-	104	-	104	1
Sheet 18 of 46	-	64	-	64	-	-
Sheet 19 of 46	-	-	-	-	-	-
Sheet 20 of 46	-	-	-	-	-	-
Sheet 21 of 46	2	42	-	42	-	-
Sheet 22 of 46	-	-	-	-	-	-
Sheet 23 of 46	-	-	-	-	-	-
Sheet 24 of 46	-	-	-	-	-	-
Sheet 25 of 46	-	-	-	-	-	-
Sheet 26 of 46	-	66	-	66	-	-
Sheet 27 of 46	-	-	-	-	-	-
Sheet 28 of 46	-	-	-	-	-	-
Sheet 29 of 46	-	-	-	-	-	-
Sheet 30 of 46	2	-	-	-	-	-
Sheet 31 of 46	-	-	-	-	-	-
Sheet 32 of 46	1	-	-	-	-	-
Sheet 33 of 46	-	-	-	-	-	-
Sheet 34 of 46	-	-	-	-	-	-
Sheet 35 of 46	-	-	-	-	-	-
Sheet 36 of 46	-	-	-	-	-	-
Sheet 37 of 46	1	-	-	-	-	-
Sheet 38 of 46	-	64	-	64	-	-
Sheet 39 of 46	1	-	-	-	-	-
Sheet 40 of 46	1	-	-	-	-	-
Sheet 41 of 46	-	-	-	-	-	-
Sheet 42 of 46	1	84	-	84	-	-
Sheet 43 of 46	-	-	-	-	-	-
Sheet 44 of 46	-	-	-	-	-	-
Sheet 45 of 46	1	62	-	62	-	-
Sheet 46 of 46	-	-	-	-	-	-
PROJECT TOTALS	19	847	104	847	104	1

DATE: 4/12/2024 6:41:15 PM
FILE: GR-SRTS-SUMMARIES07.dgn

HDR Engineering, Inc
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SUMMARIES

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		11

100% PLANS SUBMITTAL
DW: RW | CK: DR | DW: RD | CK: RW

SIDEWALK QUANTITIES

LOCATION	678 6001	678 6008	690 6123	752 6006	752 6023	1004 6001	6001 6001	6027 6010	6185 6002
	PAV SURF PREP FOR MRK (4")	PAV SURF PREP FOR MRK (24")	RELOCATE OF PEDESTRIAN PUSH BUTTON	TREE REMOVAL (12"-18") DIA	TREE TRIMMING	TREE PROTECTION	PORTABLE CHANGEABLE MESSAGE SIGN	GROUND BOX W/ APRON (ADJUST)	TMA (STATIONARY)
	LF	LF	EA	EA	EA	EA	DAY	EA	DAY
Sheet 1 of 46	-	-	-	-	-	-	-	-	-
Sheet 2 of 46	-	-	-	-	-	3	-	-	-
Sheet 3 of 46	-	-	-	-	-	2	-	-	-
Sheet 4 of 46	-	-	-	-	-	-	-	-	-
Sheet 5 of 46	-	221	-	-	-	-	-	-	-
Sheet 6 of 46	-	-	-	-	-	-	-	-	-
Sheet 7 of 46	-	-	-	-	-	1	-	-	-
Sheet 8 of 46	-	30	-	-	-	-	-	1	-
Sheet 9 of 46	-	-	-	-	3	-	-	-	-
Sheet 10 of 46	-	52	-	-	-	-	-	-	-
Sheet 11 of 46	-	-	-	-	-	-	-	-	-
Sheet 12 of 46	-	54	-	-	-	1	-	-	-
Sheet 13 of 46	-	54	-	-	-	-	-	-	-
Sheet 14 of 46	-	-	-	-	-	-	-	-	-
Sheet 15 of 46	-	-	-	-	3	3	-	-	-
Sheet 16 of 46	-	54	-	-	1	2	-	-	-
Sheet 17 of 46	104	-	-	-	-	1	-	-	-
Sheet 18 of 46	-	64	-	1	1	-	-	-	-
Sheet 19 of 46	-	-	-	-	-	-	-	-	-
Sheet 20 of 46	-	-	-	-	2	-	-	-	-
Sheet 21 of 46	-	42	-	-	3	-	-	-	-
Sheet 22 of 46	-	-	-	-	-	-	-	-	-
Sheet 23 of 46	-	-	-	-	-	-	-	-	-
Sheet 24 of 46	-	-	-	-	-	-	-	-	-
Sheet 25 of 46	-	-	-	-	-	-	-	-	-
Sheet 26 of 46	-	66	-	-	-	-	-	1	-
Sheet 27 of 46	-	-	-	-	-	-	-	2	-
Sheet 28 of 46	-	-	1	-	-	-	-	-	-
Sheet 29 of 46	-	-	-	-	-	-	-	-	-
Sheet 30 of 46	-	-	-	-	-	-	-	-	-
Sheet 31 of 46	-	-	-	-	-	-	-	-	-
Sheet 32 of 46	-	-	-	-	-	-	-	-	-
Sheet 33 of 46	-	-	-	-	-	-	-	-	-
Sheet 34 of 46	-	-	-	-	-	-	-	-	-
Sheet 35 of 46	-	-	-	-	-	-	-	-	-
Sheet 36 of 46	-	-	-	-	-	-	-	-	-
Sheet 37 of 46	-	-	-	-	-	-	-	-	-
Sheet 38 of 46	-	64	-	-	-	-	-	-	-
Sheet 39 of 46	-	-	-	-	-	-	-	-	-
Sheet 40 of 46	-	-	-	-	-	-	-	-	-
Sheet 41 of 46	-	-	-	-	-	-	-	-	-
Sheet 42 of 46	-	84	-	-	-	-	-	-	-
Sheet 43 of 46	-	-	-	-	-	-	-	-	-
Sheet 44 of 46	-	-	-	-	-	-	-	-	-
Sheet 45 of 46	-	62	-	-	-	-	-	-	-
Sheet 46 of 46	-	-	-	-	-	-	-	-	-
PROJECT TOTALS	104	847	1	1	13	13	215	4	215

HDR Engineering, Inc
Firm Registration No. F-754
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SUMMARIES

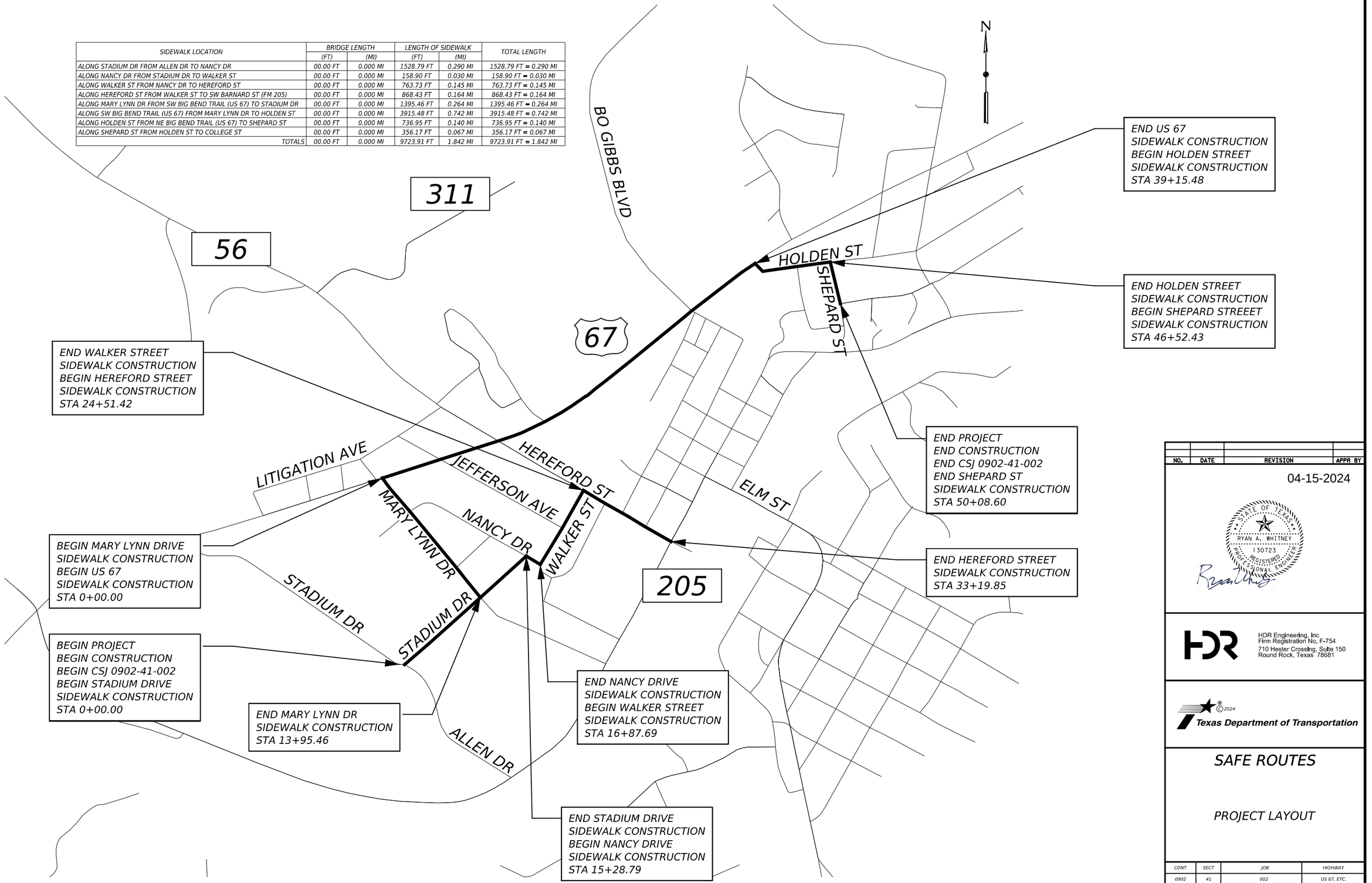
CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		12

DATE: 4/12/2024 6:41:20 PM
FILE: GR-SRTS-SUMMARIES08.dgn

100% PLANS SUBMITTAL

DW:	RW	CK:	RW
DW:	DR	CK:	RD

SIDEWALK LOCATION	BRIDGE LENGTH		LENGTH OF SIDEWALK		TOTAL LENGTH
	(FT)	(MI)	(FT)	(MI)	
ALONG STADIUM DR FROM ALLEN DR TO NANCY DR	00.00 FT	0.000 MI	1528.79 FT	0.290 MI	1528.79 FT = 0.290 MI
ALONG NANCY DR FROM STADIUM DR TO WALKER ST	00.00 FT	0.000 MI	158.90 FT	0.030 MI	158.90 FT = 0.030 MI
ALONG WALKER ST FROM NANCY DR TO HEREFORD ST	00.00 FT	0.000 MI	763.73 FT	0.145 MI	763.73 FT = 0.145 MI
ALONG HEREFORD ST FROM WALKER ST TO SW BARNARD ST (FM 205)	00.00 FT	0.000 MI	868.43 FT	0.164 MI	868.43 FT = 0.164 MI
ALONG MARY LYNN DR FROM SW BIG BEND TRAIL (US 67) TO STADIUM DR	00.00 FT	0.000 MI	1395.46 FT	0.264 MI	1395.46 FT = 0.264 MI
ALONG SW BIG BEND TRAIL (US 67) FROM MARY LYNN DR TO HOLDEN ST	00.00 FT	0.000 MI	3915.48 FT	0.742 MI	3915.48 FT = 0.742 MI
ALONG HOLDEN ST FROM NE BIG BEND TRAIL (US 67) TO SHEPARD ST	00.00 FT	0.000 MI	736.95 FT	0.140 MI	736.95 FT = 0.140 MI
ALONG SHEPARD ST FROM HOLDEN ST TO COLLEGE ST	00.00 FT	0.000 MI	356.17 FT	0.067 MI	356.17 FT = 0.067 MI
TOTALS	00.00 FT	0.000 MI	9723.91 FT	1.842 MI	9723.91 FT = 1.842 MI



NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
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Round Rock, Texas 78681

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SAFE ROUTES

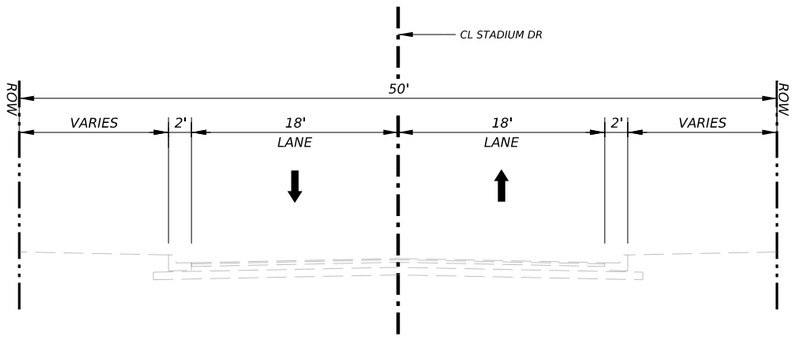
PROJECT LAYOUT

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		13

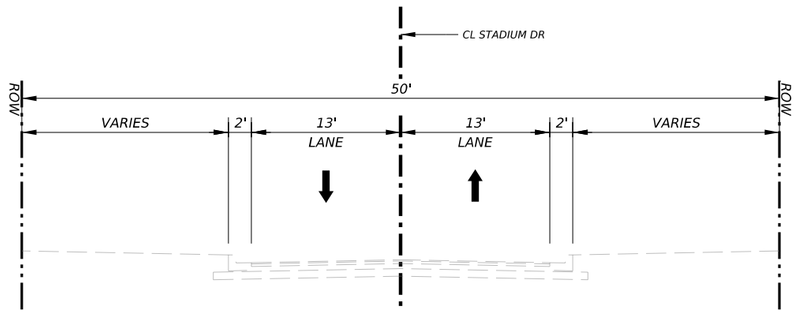
DATE: 4/12/2024 3:03:13 PM
FILE: GR-SRTS-ProjectLay01.dgn

100% PLANS SUBMITTAL

DW:	RW	CK:	RW
DW:	DR	CK:	RD



STADIUM DR
STA 01+31.88 TO STA 09+80.47
EXISTING TYPICAL SECTION



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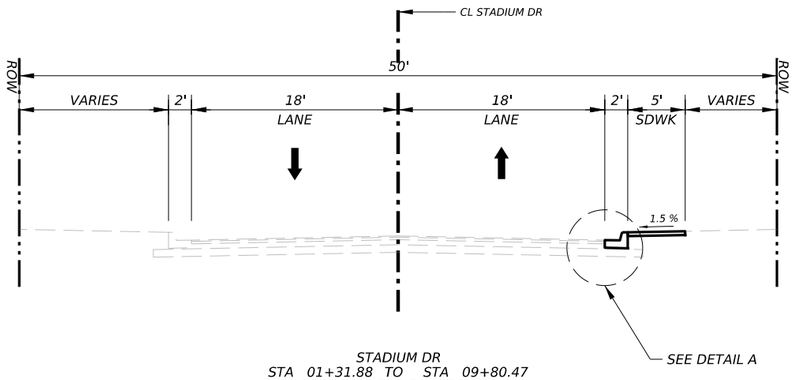
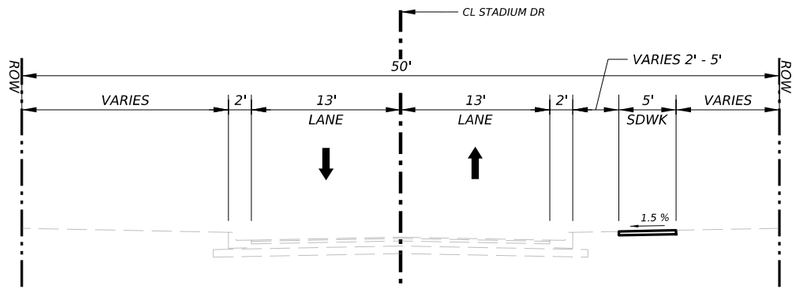
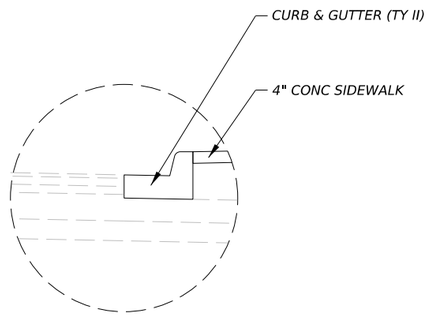
STA 09+80.47 TO STA 15+28.79
EXISTING TYPICAL SECTION



STADIUM DR
STA 01+31.88 TO STA 09+80.47
PROPOSED TYPICAL SECTION



STADIUM DR
STA 09+80.47 TO STA 15+28.79
PROPOSED TYPICAL SECTION



DETAIL A

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

STADIUM DR
TYPICAL SECTIONS

SHEET 1 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		14

DATE: 4/12/2024 3:03:57 PM
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100% PLANS SUBMITTAL

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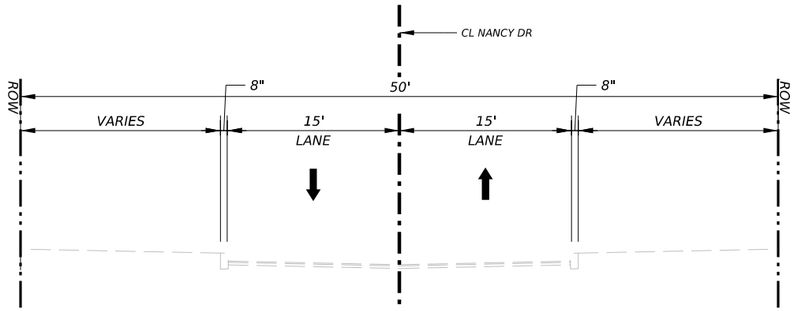
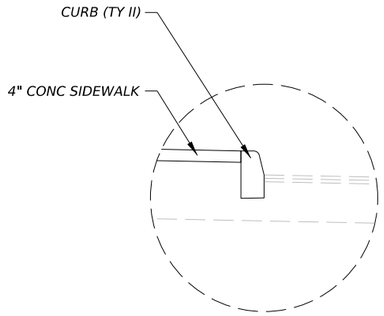
RW	DR	RD	RD	RW



NANCY DR
STA 15+28.79 TO STA 16+87.69
EXISTING TYPICAL SECTION



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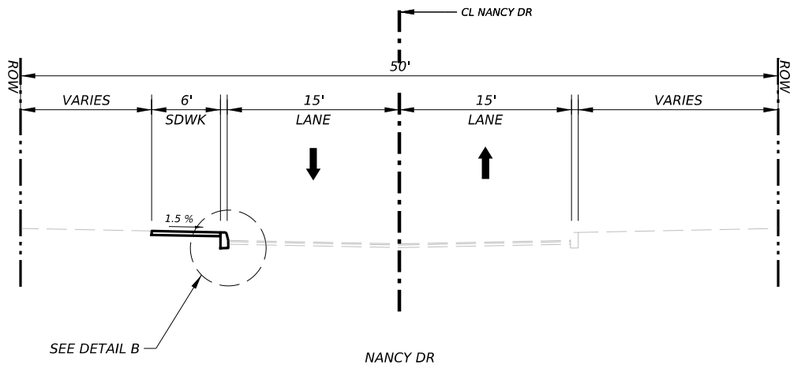

NANCY DR
STA 15+28.79 TO STA 16+87.69
PROPOSED TYPICAL SECTION

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
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SAFE ROUTES

NANCY DR
TYPICAL SECTIONS

SHEET 2 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		15

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100% PLANS SUBMITTAL

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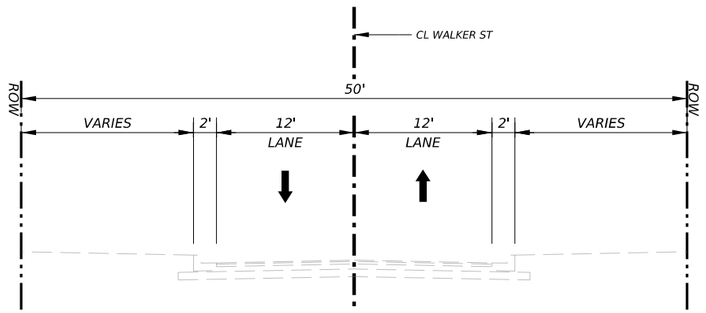
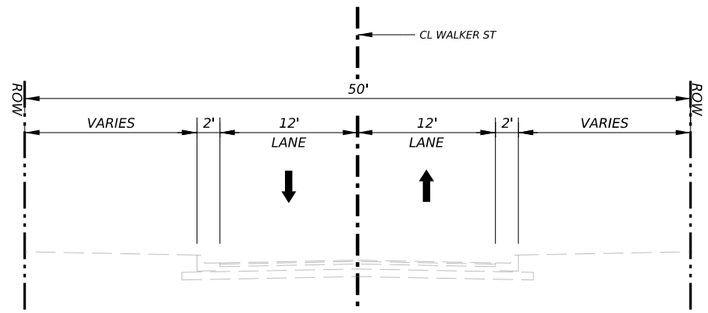
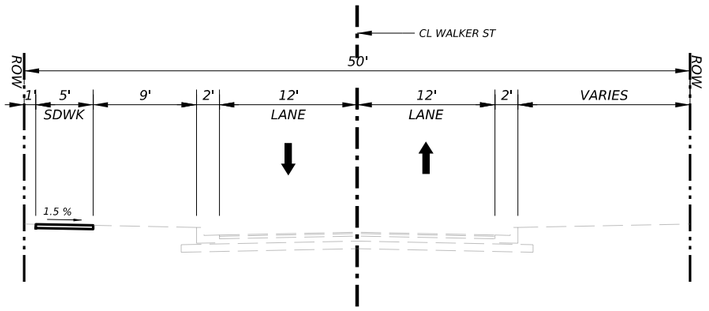
RW	DR	RD	RW



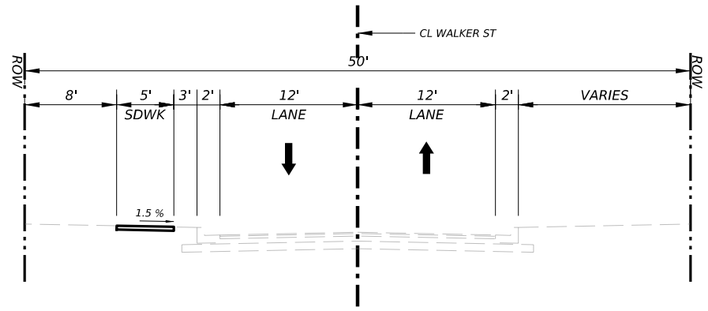
WALKER ST
STA 16+87.69 TO STA 20+55.06
EXISTING TYPICAL SECTION



WALKER ST
STA 20+55.06 TO STA 24+51.42
EXISTING TYPICAL SECTION



WALKER ST
STA 16+87.69 TO STA 20+55.06
PROPOSED TYPICAL SECTION



WALKER ST
STA 20+55.06 TO STA 24+51.42
PROPOSED TYPICAL SECTION

NO.	DATE	REVISION	APPR BY

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SAFE ROUTES

WALKER ST
TYPICAL SECTIONS

SHEET 3 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		16

DATE: 4/12/2024 3:04:17 PM
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100% PLANS SUBMITTAL

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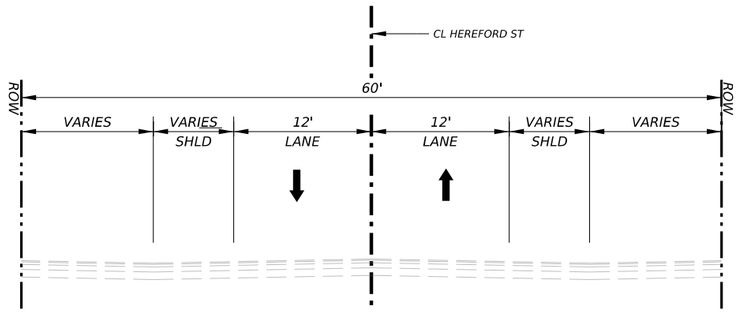
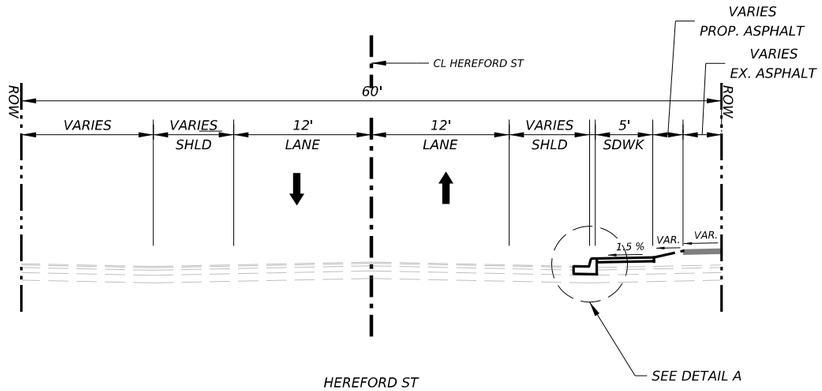
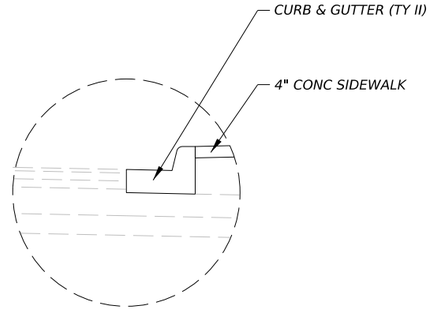
RW	DR	RD	RW



HEREFORD ST
STA 24+51.42 TO STA 33+19.85
EXISTING TYPICAL SECTION



HEREFORD ST
STA 24+51.42 TO STA 33+19.85
PROPOSED TYPICAL SECTION



DETAIL A

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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HDR Engineering, Inc
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Round Rock, Texas 78681

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SAFE ROUTES

HEREFORD ST
TYPICAL SECTIONS

SHEET 4 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		17

DATE: 4/12/2024 3:04:25 PM
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100% PLANS SUBMITTAL

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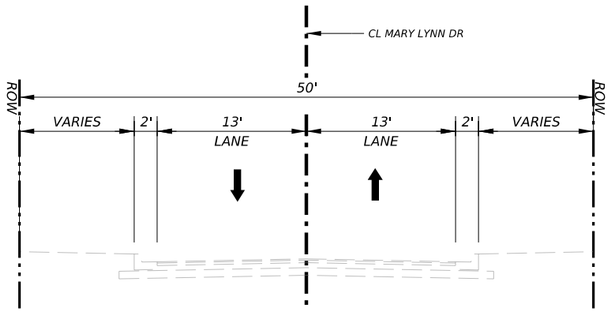
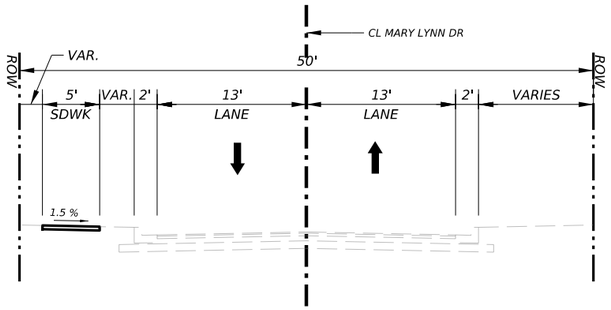


MARY LYNN DR
STA 00+00.00 TO STA 13+95.46
EXISTING TYPICAL SECTION



MARY LYNN DR
STA 00+00.00 TO STA 13+95.46
PROPOSED TYPICAL SECTION

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
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SAFE ROUTES

MARY LYNN DR
TYPICAL SECTIONS

SHEET 5 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		18

DATE: 4/12/2024 3:04:34 PM
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100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
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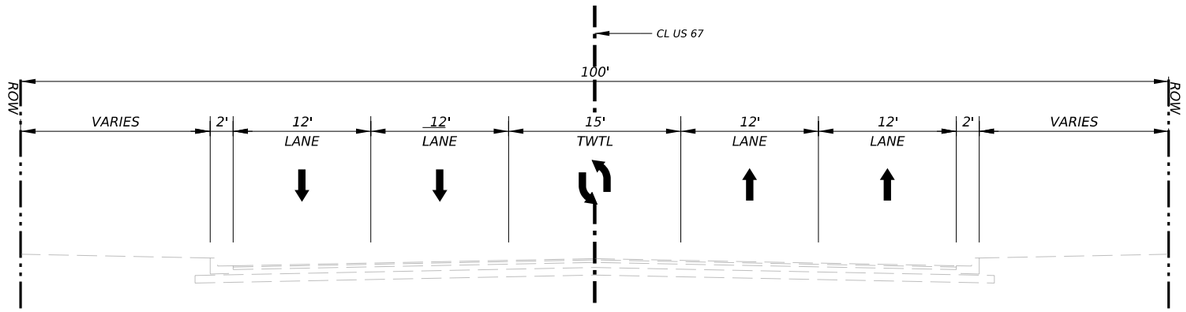
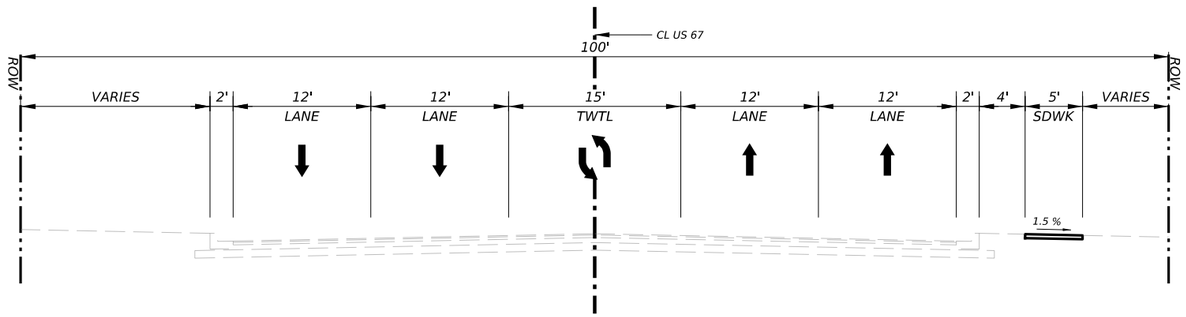


US 67
STA 00+00.00 TO STA 21+48.57
STA 31+50.09 TO STA 39+15.48
EXISTING TYPICAL SECTION



US 67
STA 00+00.00 TO STA 21+48.57
STA 31+50.09 TO STA 39+15.48
PROPOSED TYPICAL SECTION

NO.	DATE	REVISION	APPR BY

04-15-2024

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SAFE ROUTES

US 67
TYPICAL SECTIONS

SHEET 6 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		19

DATE: 4/12/2024 3:04:42 PM
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100% PLANS SUBMITTAL

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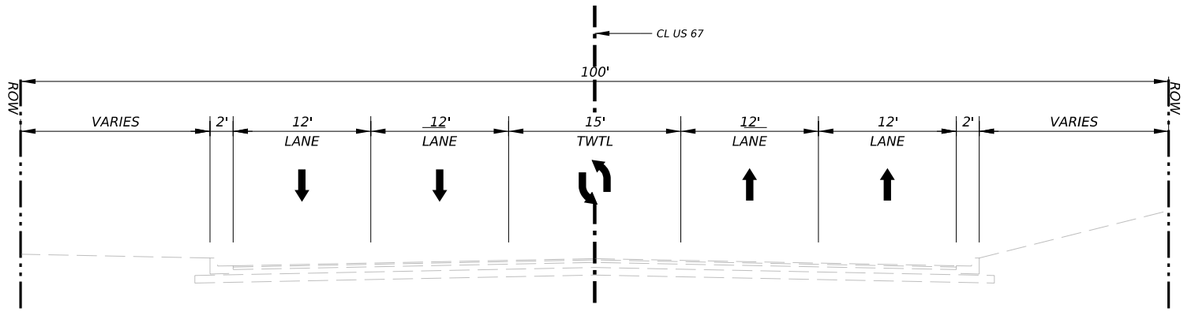
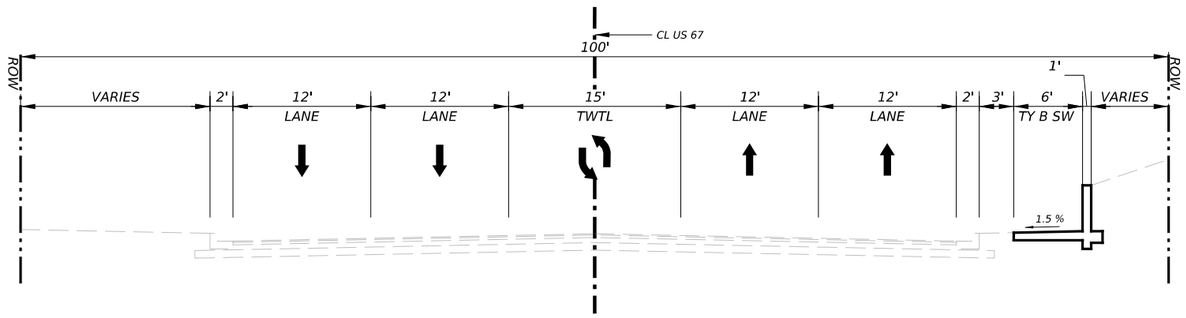


US 67
STA 21+48.57 TO STA 31+50.09
EXISTING TYPICAL SECTION



US 67
STA 21+48.57 TO STA 31+50.09
PROPOSED TYPICAL SECTION

NO.	DATE	REVISION	APPR BY

04-15-2024

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SAFE ROUTES

US 67
TYPICAL SECTIONS

SHEET 7 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		20

DATE: 4/12/2024 3:04:47 PM
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100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
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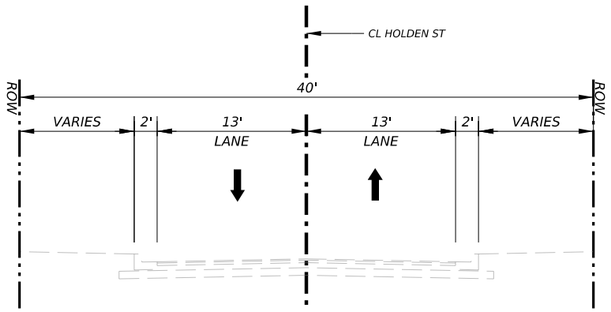
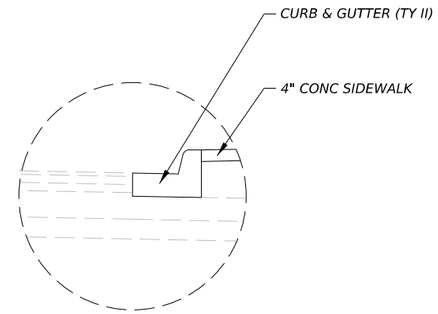
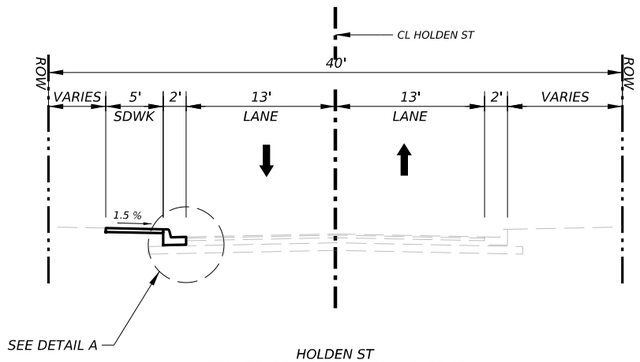


HOLDEN ST
STA 39+15.48 TO STA 46+52.43
EXISTING TYPICAL SECTION



DETAIL A



HOLDEN ST
STA 39+15.48 TO STA 46+52.43
PROPOSED TYPICAL SECTION

NO.	DATE	REVISION	APPR BY

04-15-2024

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SAFE ROUTES

HOLDEN ST
TYPICAL SECTIONS

SHEET 8 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		21

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100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
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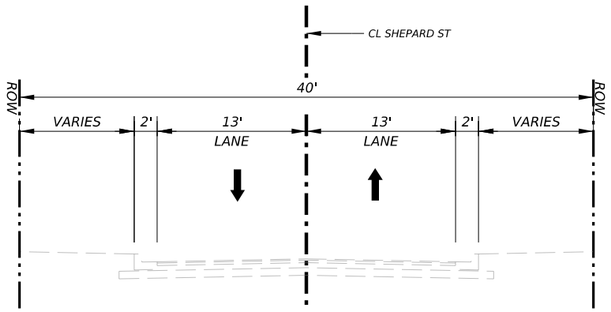
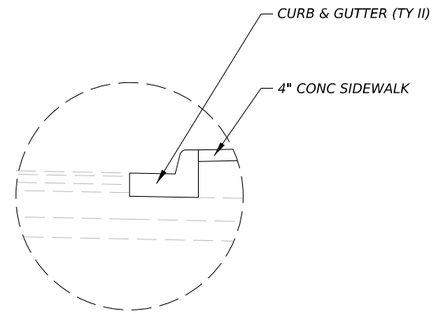


SHEPARD ST
STA 46+52.43 TO STA 50+08.60
EXISTING TYPICAL SECTION



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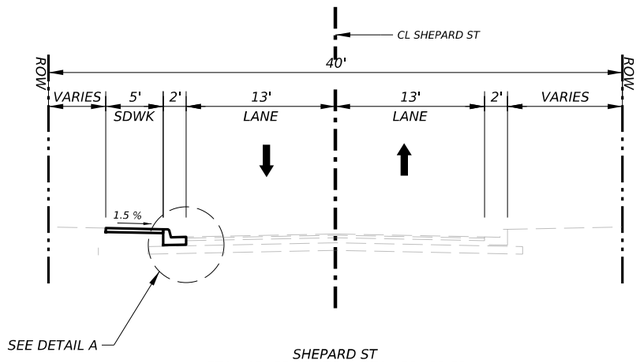

SHEPARD ST
STA 46+52.43 TO STA 50+08.60
PROPOSED TYPICAL SECTION

NO.	DATE	REVISION	APPR BY

04-15-2024

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SAFE ROUTES

SHEPARD ST
TYPICAL SECTIONS

SHEET 9 OF 9

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		22

DATE: 4/12/2024 3:05:05 PM
FILE: GR_SRTS_TYP09.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW

BARRICADES, WARNING SIGNS, SEQUENCE OF WORK, ETC.

1. TRAFFIC MUST BE HANDLED THROUGHOUT THE PROJECT DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE AND COMFORTABLE PASSAGE FOR VEHICULAR, PEDESTRIAN, AND BICYCLE TRAFFIC WITH MINIMAL INCONVENIENCE TO THE PUBLIC, AS SHOWN IN THE PLANS OR AS DIRECTED/APPROVED BY THE ENGINEER. ALL TRAFFIC HANDLING SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
2. TRAFFIC CONTROL PHASING MUST BE COMPLETED IN THE SEQUENCE OF CONSTRUCTION AS SHOWN ON THE PLAN SET UNLESS DIRECTED OTHERWISE BY THE ENGINEER AND APPROVED BY THE CITY.
3. THE CONTRACTOR MAY PROPOSE/RECOMMEND MODIFICATIONS TO THE SEQUENCE OF WORK FOR CONSIDERATION BY THE ENGINEER. ANY MAJOR RECOMMENDED MODIFICATION BY THE CONTRACTOR SHALL INCLUDE ANY CHANGES TO THE VARIOUS BID ITEMS, IMPACT TO TRAFFIC, EFFECT OF OVERALL PROJECT IN TIME AND COST, ETC. IF THE PROPOSAL IS IMPLEMENTED, THE CONTRACTOR WILL BE RESPONSIBLE FOR DEVELOPING DETAILED PLAN SHEETS TO BE SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS FOR INCLUSION WITH THE CHANGE ORDER. THE CONTRACTOR CANNOT PROCEED WITH ANY CONSTRUCTION OPERATIONS BASED ON A REVISED PHASE/SEQUENCE UNTIL WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. IF AT ANY TIME DURING CONSTRUCTION THE CONTRACTOR'S PROPOSED PLAN OF OPERATION FOR HANDLING TRAFFIC DOES NOT PROVIDE FOR SAFE AND COMFORTABLE MOVEMENT, THE CONTRACTOR WILL IMMEDIATELY CHANGE THEIR OPERATION TO CORRECT THE UNSATISFACTORY CONDITION.
4. THIS PROJECT WILL CONSIST OF LINEAR SHIFTING TCP, STARTING FROM ONE END AND MOVING THROUGHOUT THE PROJECT LIMITS TO THE OTHER END. BEFORE ANY CONSTRUCTION BEGINS, INSTALL ADVANCE WARNING SIGNS, MODIFY EXISTING/PROPOSED SIGNS, INSTALL EROSION CONTROL MEASURES FOLLOWING THE REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS AND INSTALL TEMPORARY SIGNING AND BARRICADES, AND WORK ZONE PAVEMENT MARKINGS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
5. DURING VARIOUS PHASES OF WORK, COVER EXISTING AND/OR NEWLY ERECTED SIGNS THAT MAY BE IN CONFLICT WITH APPLICABLE TRAFFIC CONTROL DEVICES DURING THAT PHASE.
6. CONSTRUCTION OF PROPOSED DRIVEWAYS MUST BE STEPPED IN ORDER TO PROVIDE LOCAL ACCESS TO PROPERTIES AND BUSINESSES ADJACENT TO THE RIGHT OF WAY AT ALL TIMES. PROPERTIES WITH MULTIPLE DRIVEWAY ACCESS CAN BE CLOSED, ONE AT A TIME, TO COMPLETE PROPOSED CONSTRUCTION. PROPERTIES WITH A SINGLE ACCESS DRIVEWAY WILL BE PHASED UNLESS OTHERWISE APPROVED. FLAGGERS WILL BE REQUIRED TO SAFELY DIRECT TRAFFIC THROUGH THE DRIVEWAY, WHEN NECESSARY.
7. AT NO TIME WILL TWO CONSECUTIVE INTERSECTING ROADWAYS BE CLOSED AT ONE TIME DURING CONSTRUCTION, UNLESS APPROVED BY THE ENGINEER.
8. NOTIFY THE ENGINEER IN WRITING OF IMPENDING/UPCOMING LANE CLOSURES FIVE WORKING DAYS IN ADVANCE OF LANE CLOSURES.

SAFETY

1. PROVIDE, CONSTRUCT, AND MAINTAIN BARRICADES, AND SIGNS IN ACCORDANCE WITH STATE STANDARDS BC(1-12)-21. ANY SIGNS REQUIRED THAT ARE NOT DETAILED IN THE STANDARDS SHEETS MUST BE IN CONFORMANCE WITH THE "TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND THE "STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS."
2. BARRICADES AND WARNING SIGNS MUST BE PLACED AS INDICATED ON THE PLANS, IN THE STANDARD DETAILS, OR PER THE LATEST TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD). THIS WILL BE CONSIDERED THE MINIMUM REQUIRED TO PROVIDE FOR THE SAFETY OF TRAFFIC DURING CONSTRUCTION. PROVIDE AND MAINTAIN OTHER SUCH BARRICADES AND SIGNS DEEMED NECESSARY BY THE ENGINEER OR AS DIRECTED BY FIELD CONDITIONS, TO PROVIDE FOR THE PASSAGE OF TRAFFIC IN SAFETY AT ALL TIMES.
3. PROVIDE AND MAINTAIN FLAGGERS AS DIRECTED/APPROVED BY THE ENGINEER, AT SUCH POINTS, AND FOR SUCH PERIODS OF TIME AS MAY BE REQUIRED, TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC AND THE CONTRACTOR'S PERSONNEL.
4. DO NOT STORE ANY CONSTRUCTION MATERIAL OR EQUIPMENT AT ANY LOCATION THAT WILL CONSTITUTE A HAZARD AND WILL ENDANGER TRAFFIC.
5. KEEP THE ROADWAY CLEAN AND FREE OF DIRT OR OTHER MATERIAL AT ALL TIMES. THE ENGINEER WILL CEASE CONSTRUCTION OPERATIONS IF THE CONTRACTOR DOES NOT MAINTAIN A CLEAN ROADWAY.
6. THE USE OF RUBBER-TIRED EQUIPMENT WILL BE REQUIRED FOR MOVING DIRT OR OTHER MATERIALS ALONG OR ACROSS PAVEMENT SURFACES. WHERE THE CONTRACTOR DESIRES TO MOVE ANY EQUIPMENT NOT LICENSED FOR OPERATION ON PUBLIC HIGHWAYS, ON OR ACROSS PAVEMENT, THEY SHALL PROTECT THE PAVEMENT FROM DAMAGE AS DIRECTED/APPROVED BY THE ENGINEER. THROUGHOUT CONSTRUCTION OPERATIONS, CONDUCT HAULING OPERATIONS IN A MANNER SUCH THAT VEHICLES WILL NOT HAUL OVER PREVIOUSLY RE-COMPACTED SUBGRADE OR COMPACTED BASE MATERIAL, EXCEPT IN SHORT SECTIONS FOR DUMPING MANIPULATIONS.

GENERAL

1. BEFORE THE COMMENCEMENT OF EACH PHASE, INSTALL ADVANCE WARNING SIGNS, TEMPORARY SIGNS, BARRICADES AND SWP3 ITEMS AS SHOWN ON THE PLANS AND/OR AS DIRECTED/APPROVED BY THE ENGINEER. PROVIDE 7 DAY ADVANCE NOTICE OF ANY WORK THROUGH THE USE OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS). THE ENGINEER MUST APPROVE ANY MODIFICATIONS TO THE PCMS.
2. MINIMIZE LANE CLOSURES AND REOPEN TRAVEL LANES TO VEHICULAR TRAFFIC WHEN POSSIBLE. AFTER COMPLETION OF CURB AND GUTTER CONSTRUCTION; REOPEN TRAVEL LANES TO TRAFFIC DURING CONSTRUCTION HOURS OF PEDESTRIAN FACILITIES.
3. MINIMIZE IMPACT TO PEDESTRIAN TRAFFIC AND REOPEN CROSSWALKS WHEN POSSIBLE.
4. MAINTAIN ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE DRIVEWAYS. COORDINATE WITH PROPERTY OWNERS TO SCHEDULE CONSTRUCTION OF DRIVEWAYS.
5. MAINTAIN ACCESS TO BUSINESSES DURING CONSTRUCTION OF SIDEWALKS IN FRONT OF THE BUSINESSES. COORDINATE WITH BUSINESS OWNERS TO SCHEDULE TIMES TO CONSTRUCT SIDEWALKS DIRECTLY IN FRONT OF THE BUSINESSES THAT WOULD OBSTRUCT ACCESS.
6. WHEN DEMOING AND REPLACING SIDEWALK IN KIND, SIDEWALK MUST NOT BE CLOSED FOR MORE THAN 3 CONSECUTIVE DAYS.
7. IF SIDEWALK IS CLOSED FOR CONSTRUCTION, CONTRACTOR MUST PROVIDE COMPETENT/TRAINED PERSONNEL TO ASSIST PEDESTRIANS IN TRAVERSING THROUGH THE WORK ZONE SAFELY. THE PREFERRED SIDEWALK DIVERSION DIRECTION IS BETWEEN THE WORK ACTIVITY AND ROW/PROPERTY LINE OR ON SHOULDER, PROVIDED THIS IS WITH ASSISTANCE OF COMPETENT CONTRACTOR PERSONNEL. USE WATER-FILLED BARRIER TO PROTECT PEDESTRIANS ON SHOULDER (SUBSIDIARY TO 502-6001). IN EVERY CASE, A PEDESTRIAN TRAVERSING THROUGH A WORK ZONE EITHER ON EXISTING SIDEWALK OR BEATEN PATH, OR DIVERTED THROUGH A WORK ZONE MUST BE ASSISTED BY CONTRACTOR'S COMPETENT/TRAINED PERSONNEL.
8. SAFETY OF PEDESTRIANS IN WORK ZONES IS CONTRACTOR'S RESPONSIBILITY. IF CONTRACTOR OBSERVES ANY SAFETY CONCERNS, THEY SHOULD CEASE WORK ACTIVITY, RESTORE PEDESTRIAN TRAFFIC, AND CONTACT THE ENGINEER IMMEDIATELY.
9. PERFORM WORK IN A LINEAR FASHION AND PROCEED IN THE DIRECTION OF TRAFFIC.
10. TRAFFIC CONTROL TO FOLLOW TXDOT STANDARD DETIALS TCP(1-4)-18 ONE LANE CLOSURE DETAIL, TCP(2-1)-18 WORK SPACE ON SHOULDER DETAIL, TCP(2-3)-23 TRAFFIC SHIFTS ON TWO-LANE ROADS, AND WZ (BTS-1)-13 AND WZ (BTS-2)-13 FOR ALL TRAFFIC SIGNAL WORK AT INTERSECTIONS.
11. COORDINATE WITH THE TXDOT STEPHENVILLE AREA OFFICE REGARDING WORK AT THE INTERSECTION OF US 67 AND HEREFORD ST AS PART OF PROJECT 0259-03-061. POINT OF CONTACT FOR THIS PROJECT IS JIM HOLDER (254-897-2272). COORDINATE WITH THE CONTRACTOR TO AVOID OVERLAPPING WORK AND UNNECESSARY DISRUPTION. DO NOT INSTALL CONFLICTING WORK ZONES.
12. FOR SIDEWALK WORK IN FRONT OF GLEN ROSE ELEMENTARY SCHOOL AND GLEN ROSE JUNIOR HIGH SCHOOL, COORDINATE WITH GLEN ROSE ISD TO MINIMIZE IMPACT TO PEDESTRIAN ACTIVITY AND SCHOOL DRIVEWAY ACCESS. COORDINATE WITH GLEN ROSE ISD TO PERFORM ALL WORK LOCATED AROUND THE SCHOOLS WHILE SCHOOL IS NOT IN SESSION.

TYPE OF WORK PERFORMED	TCP STANDARDS	APPLICATION
SIDEWALK CONSTRUCTION	TCP(1-4a)	FOR WORK ADJACENT TO EOP REQUIRING ADDITIONAL SPACE AND FOR ALL CURB & GUTTER WORK
	TCP(2-1)-18 TCP(2-3)-23	FOR WORK ADJACENT TO ROADWAY
	WZ(BTS-1)-13	FOR WORK IN INTERSECTION
	WZ(BTS-2)-13	FOR SIDEWALK CLOSURES (SIDEWALK DIVERSION)
DRIVEWAY CONSTRUCTION	TCP(1-4a)	FOR WORK ADJACENT TO EOP REQUIRING ADDITIONAL SPACE
	TCP(2-1)-18	FOR WORK ADJACENT TO ROADWAY
CROSSWALK RESTRIPING	WZ(BTS-2)-13	FOR CROSSWALK CLOSURES
ASPHALT PATCHING	TCP(1-4a)	FOR WORK ADJACENT TO EOP REQUIRING ADDITIONAL SPACE
REMOVALS	TCP(1-4a)	FOR WORK ADJACENT TO EOP REQUIRING ADDITIONAL SPACE
	TCP(2-1)-18 TCP(2-3)-23	FOR WORK ADJACENT TO ROADWAY

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

TRAFFIC CONTROL PLAN
GENERAL NOTES

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		23

DATE: 4/12/2024 3:05:44 PM
FILE: GR_SRTS_TCP_GEN.dgn

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

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	902	41	2	US 67, ETC
9-07 8-14	DIST	COUNTY		SHEET NO.
5-10 5-21	FTW	SOMERVELL		24

DATE: 4/12/2024 4:37:03 PM
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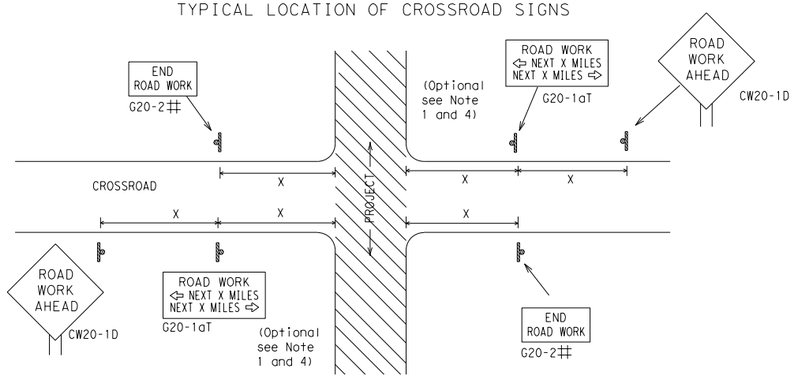
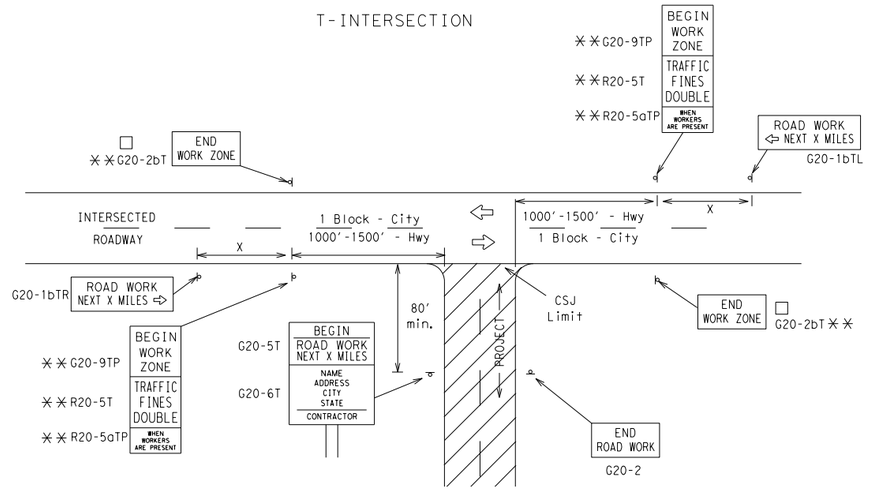
TYPICAL LOCATION OF CROSSROAD SIGNS



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]

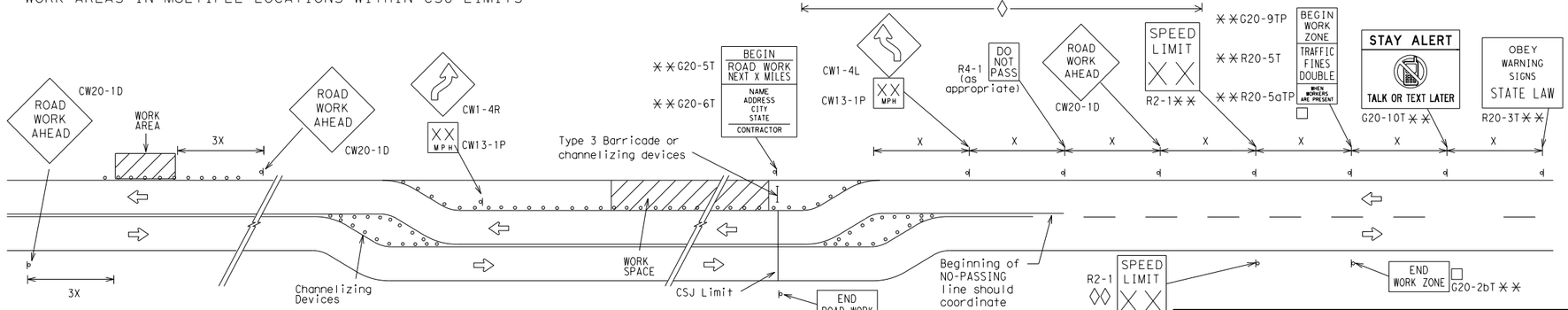
✳ For typical sign spacings on divided highways, expressways and freeways, see Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCP Standard Sheets.

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

GENERAL NOTES

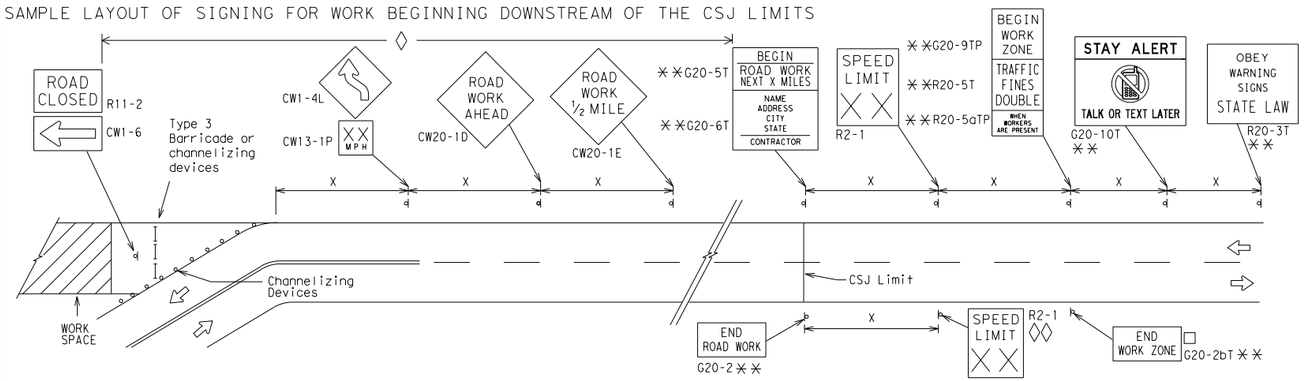
1. Special or larger size signs may be used as necessary.
2. Distance between signs should be increased as required to have 1500 feet advance warning.
3. Distance between signs should be increased as required to have 1/2 mile or more advance warning.
4. 36" x 36" "ROAD WORK AHEAD" (CW20-1D)signs may 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 DOWNSTREAM OF THE CSJ LIMITS



SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING AT 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.

SHEET 2 OF 12

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	902	41	2	US 67, ETC
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	FTW	SOMERVELL		25

DATE: 4/12/2024 4:37:03 PM
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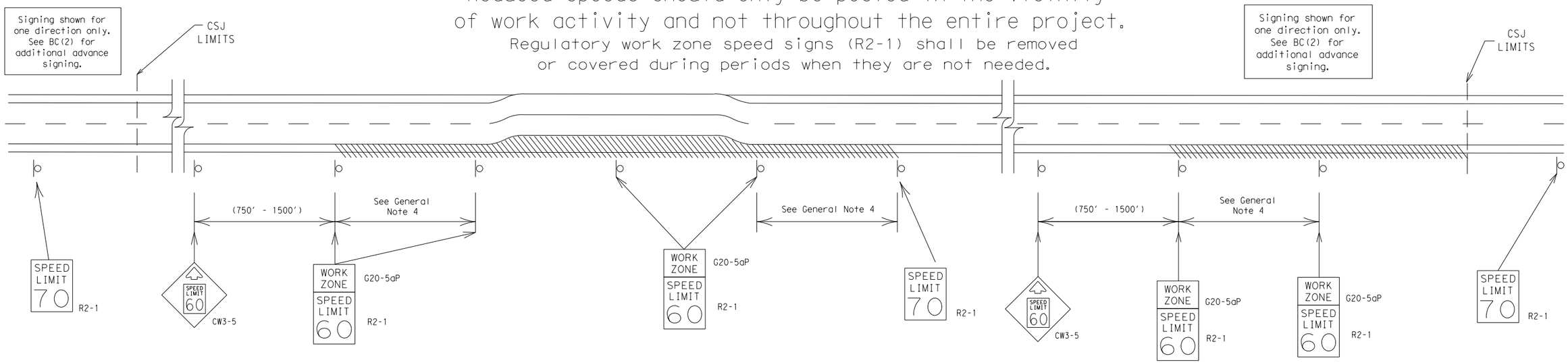
TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

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

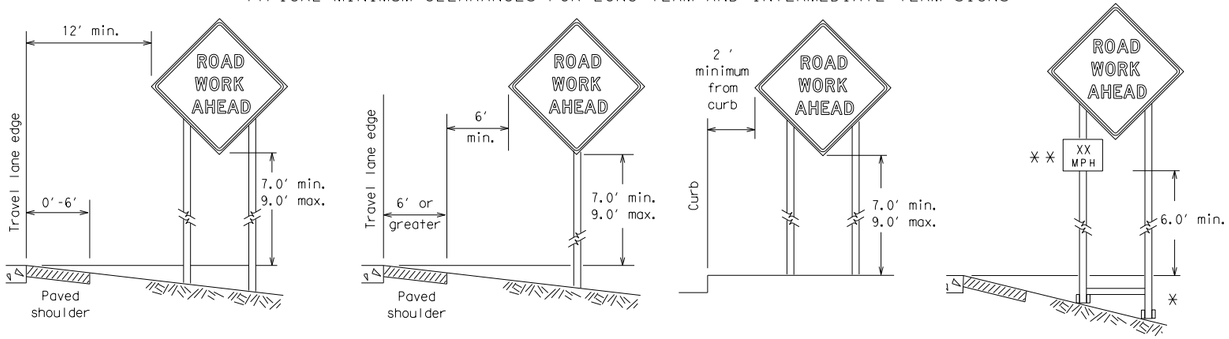
BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS 9-07 8-14 7-13 5-21	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		26

DATE: 4/12/2024 4:37:03 PM
FILE: bc-21.dgn

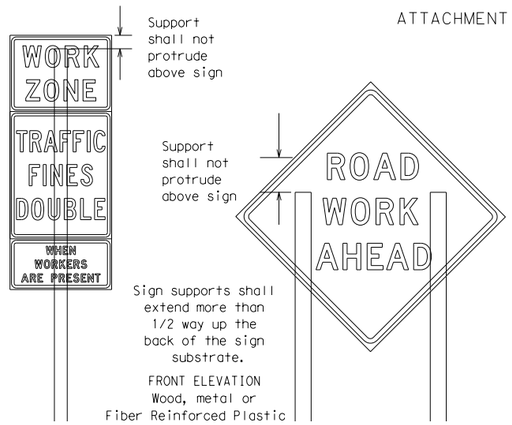
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS

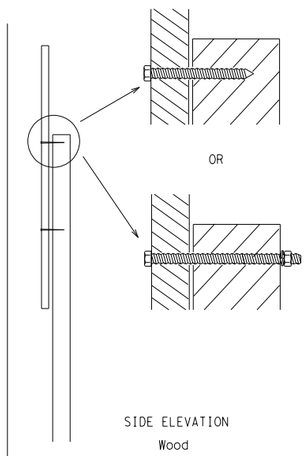


⁎ When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

⁎⁎ 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





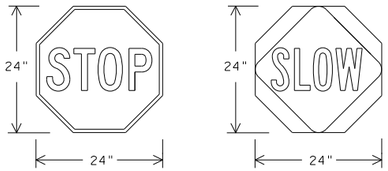
Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

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
REVISIONS	902	41	2	US 67, ETC
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	FTW	SOMERVELL		27

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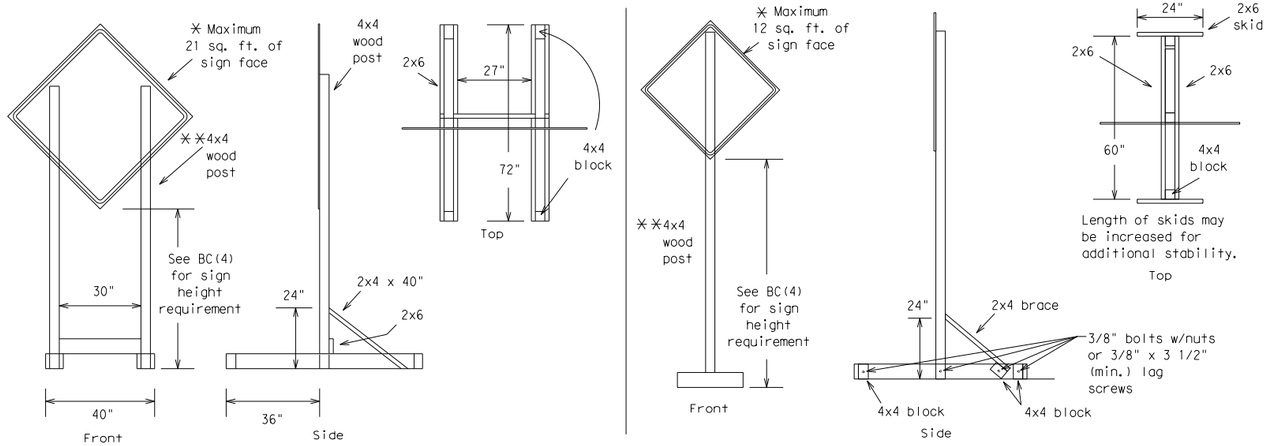
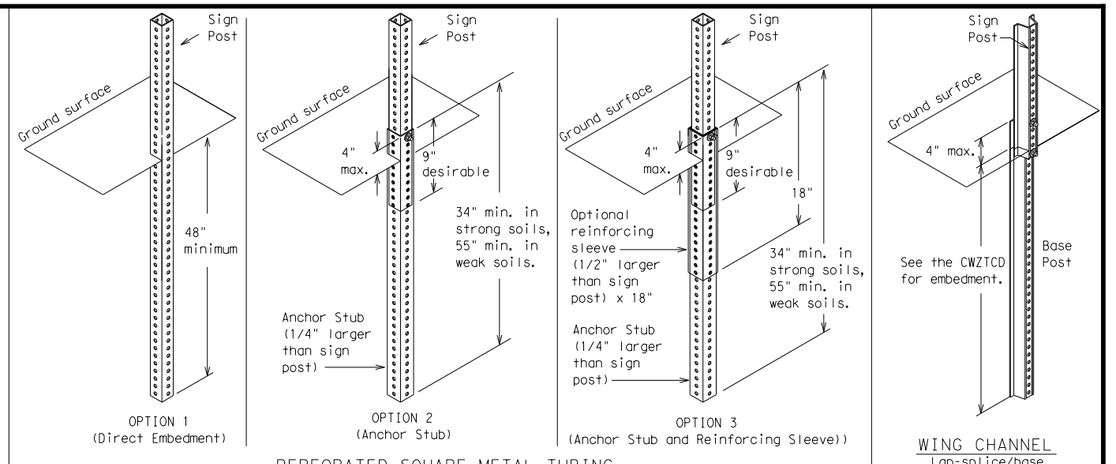


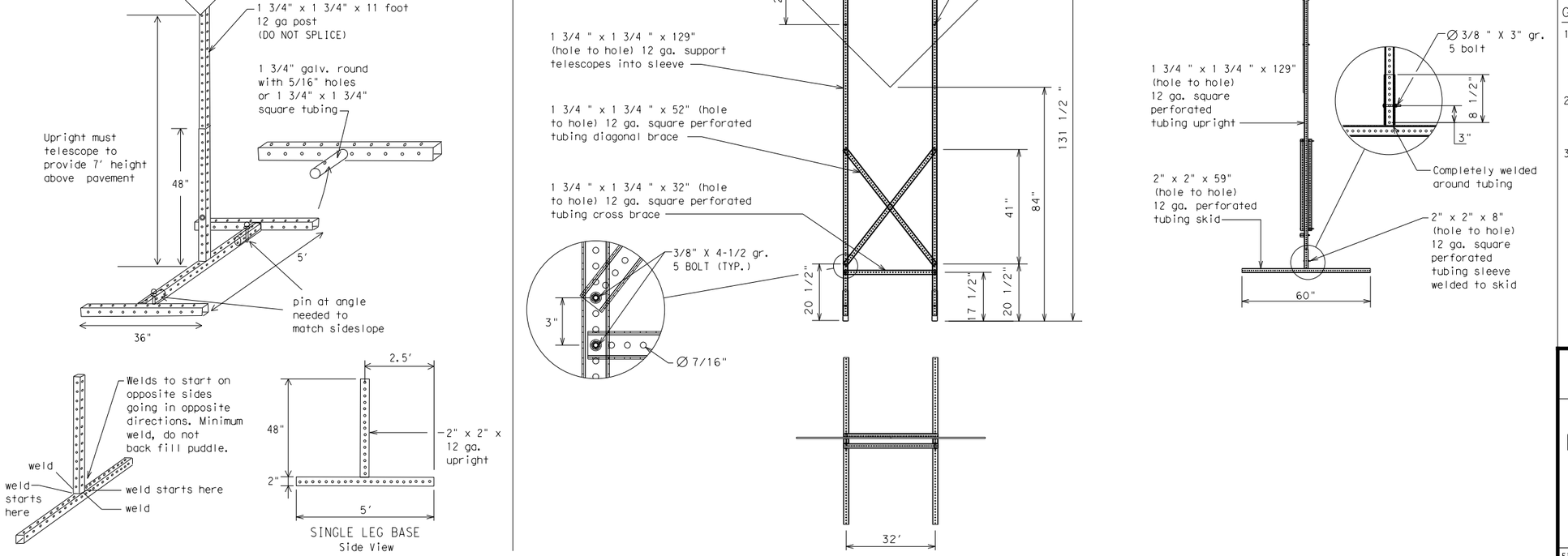
SKID MOUNTED WOOD SIGN SUPPORTS

* 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.

SHEET 5 OF 12

Texas Department of Transportation | Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TYPICAL SIGN SUPPORT

BC(5)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	902	41	2	US 67, ETC
9-07 8-14	DIST	COUNTY		SHEET NO.
7-13 5-21	FTW	SOMERVELL		28

DATE: 4/12/2024 4:37:03 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 *

* 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
STAY IN LANE *	

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

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

** 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	FTW	SOMERVELL		29

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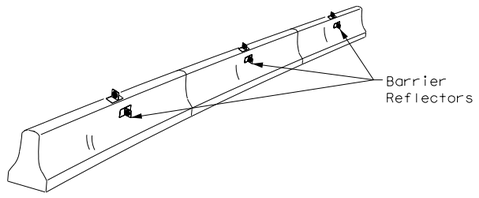
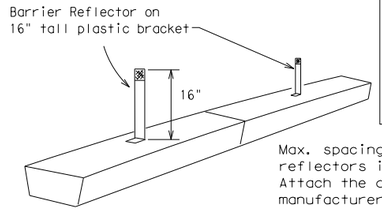
1. Barrier Reflectors shall be pre-qualified, and conform to the color and reflectivity requirements of DMS-8600. A list of prequalified Barrier Reflectors can be found at the Material Producer List web address shown on BC(1).
2. Color of Barrier Reflectors shall be as specified in the TMUTCD. The cost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

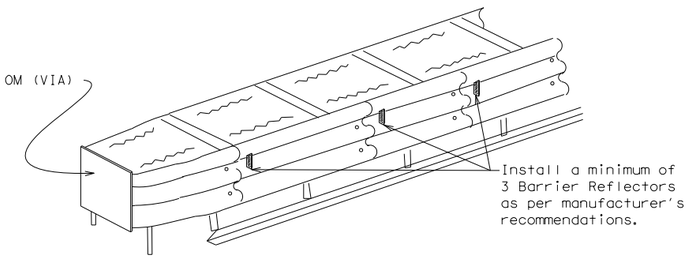


Max. spacing of barrier reflectors is 20 feet. Attach the delineators as per manufacturer's recommendations.

LOW PROFILE CONCRETE BARRIER (LPCB)

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.

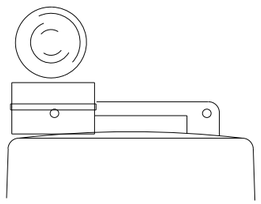


DELINEATION OF END TREATMENTS

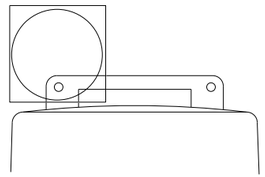
END TREATMENTS FOR CTB'S USED IN WORK ZONES

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

BARRIER REFLECTORS FOR CONCRETE TRAFFIC BARRIER AND ATTENUATORS



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

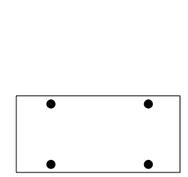
1. Type A flashing warning lights are intended to warn drivers that they are approaching or are in a potentially hazardous area.
2. Type A random flashing warning lights are not intended for delineation and shall not be used in a series.
3. A series of sequential flashing warning lights placed on channelizing 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.

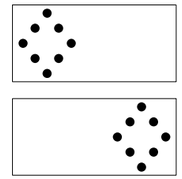
Arrow Boards may be located behind channelizing devices in place for a shoulder taper or merging taper, otherwise they shall be delineated with four (4) channelizing devices placed perpendicular to traffic on the upstream side of traffic.

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:

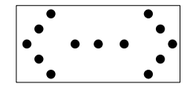


4 CORNER CAUTION

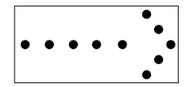
OR



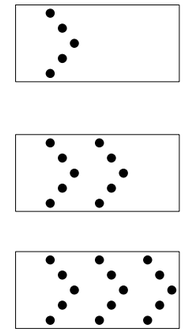
ALTERNATING DIAMOND CAUTION



DOUBLE ARROW



RIGHT/LEFT ARROW
(right arrow shown; left is similar)



RIGHT/LEFT SEQUENTIAL CHEVRON
(right chevron shown; left is similar)

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	902	41	2	US 67, ETC
9-07 8-14 7-13 5-21	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		30

101

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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:

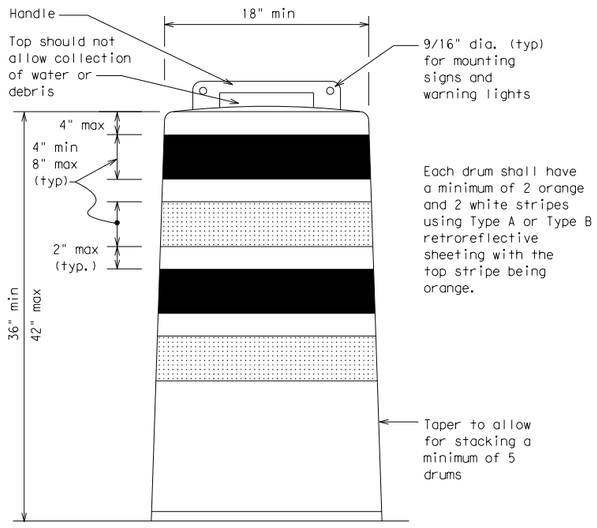
1. Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
2. The body and base shall lock together in such a manner that the body separates from the base when impacted by a vehicle traveling at a speed of 20 MPH or greater but prevents 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.

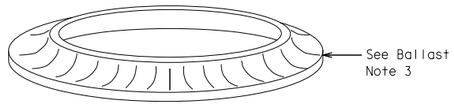
RETROREFLECTIVE SHEETING

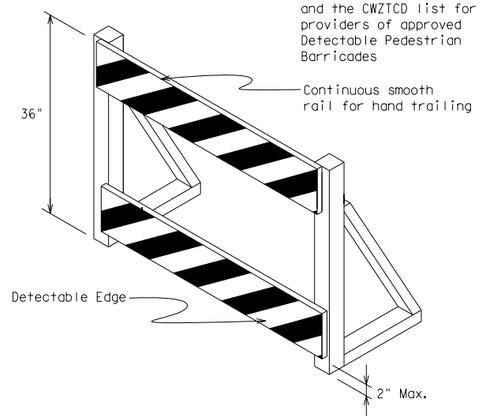
1. The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
2. The sheeting shall 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.

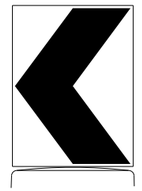




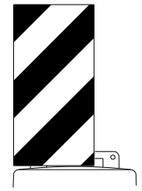


DETECTABLE PEDESTRIAN BARRICADES

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
REVISIONS	902	41	2	US 67, ETC
4-03 8-14	DIST	COUNTY		SHEET NO.
9-07 5-21	FTW	SOMERVELL		31
7-13				

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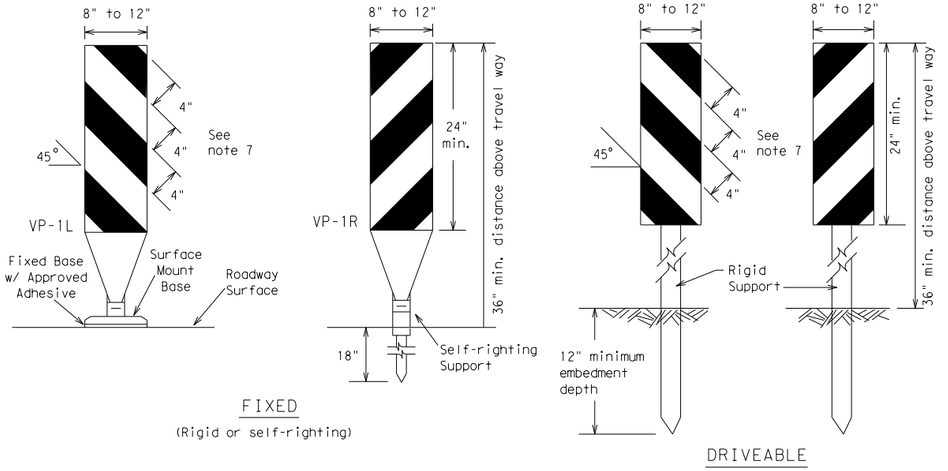
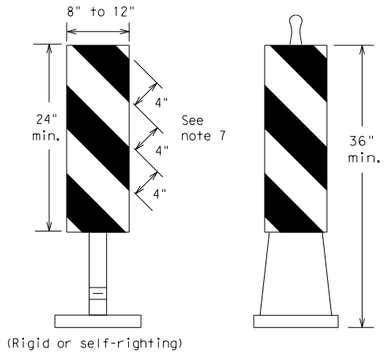


FIXED

(Rigid or self-righting)

DRIVEABLE

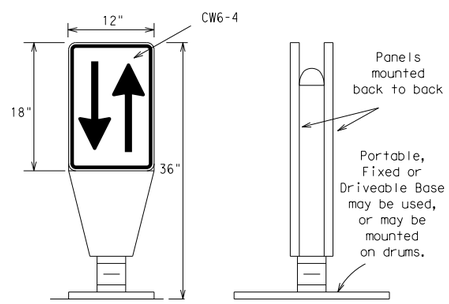


(Rigid or self-righting)

PORTABLE

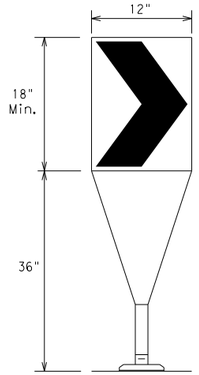
1. Vertical Panels (VP's) are normally used to channelize traffic or divide opposing lanes of traffic.
2. VP's may be used in daytime or nighttime situations. They may be used at the edge of shoulder drop-offs and other areas such as lane transitions where positive daytime and nighttime delineation is 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.

VERTICAL PANELS (VPs)



1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to convert a normal one-way roadway section to two-way operation. OTLD's are used on temporary centerlines. The upward and downward arrows on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the 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.

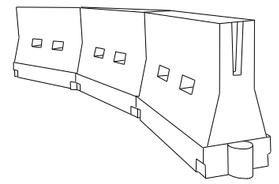
OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



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



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

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.

Posted Speed	Formula	Minimum Desirable Taper Lengths ✳✳			Suggested Maximum Spacing of Channelizing Devices	
		10′ Offset	11′ Offset	12′ Offset	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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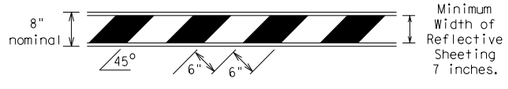
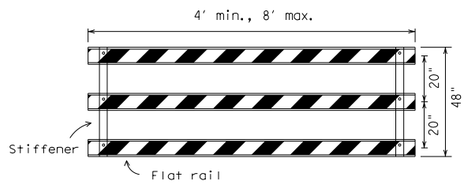
TYPE 3 BARRICADES

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.



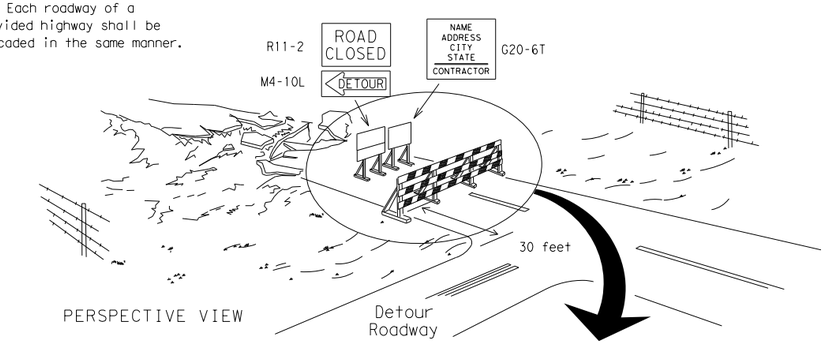
TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



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

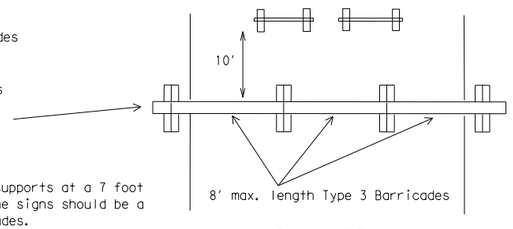
Each roadway of a divided highway shall be barricaded in the same manner.



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.

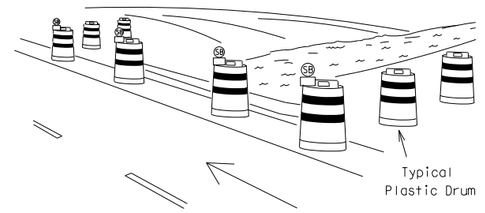
Barricade striping should slant downward in the direction of detour.



PLAN VIEW

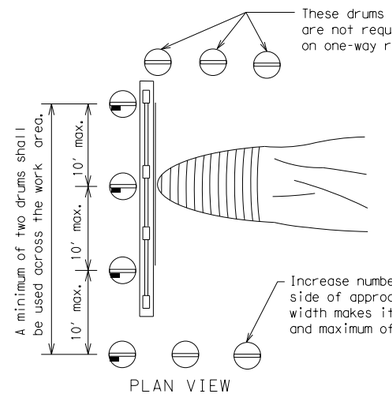
1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



PERSPECTIVE VIEW

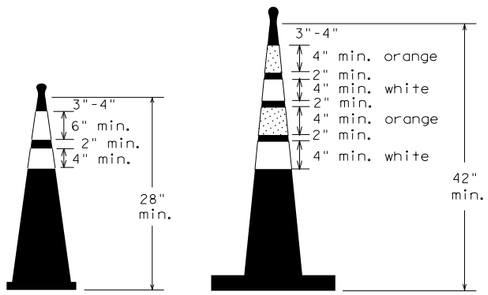
1. Where positive redirectional capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder 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

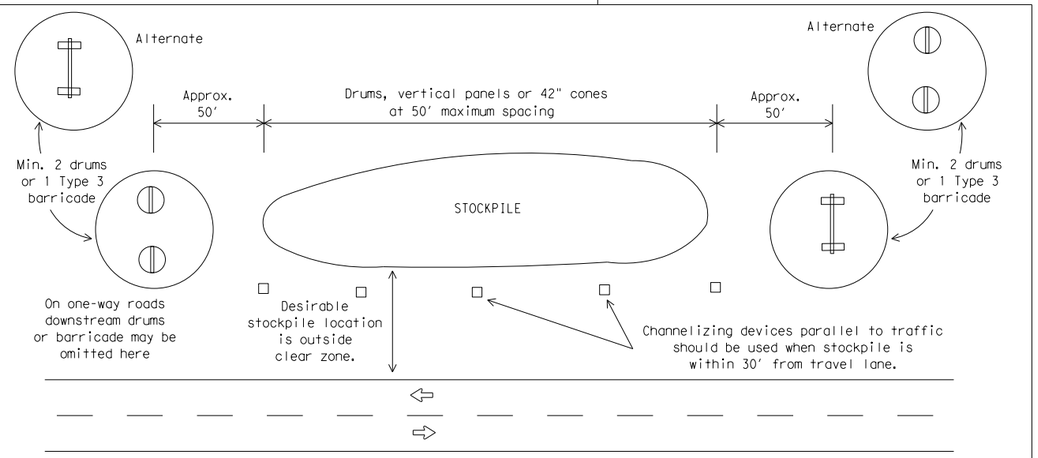


Two-Piece cones | One-Piece cones | Tubular Marker

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

SHEET 10 OF 12

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-21

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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.

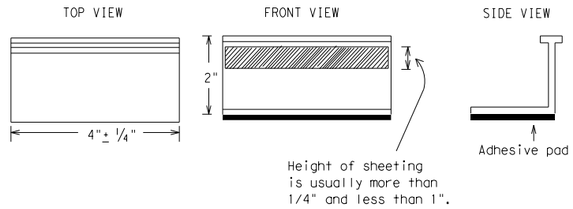
MAINTAINING WORK ZONE PAVEMENT MARKINGS

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

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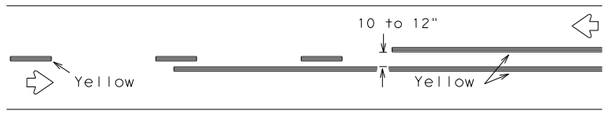
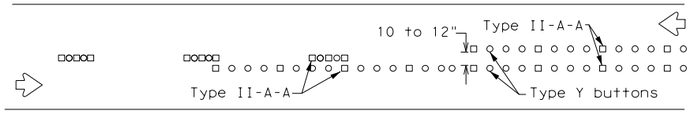
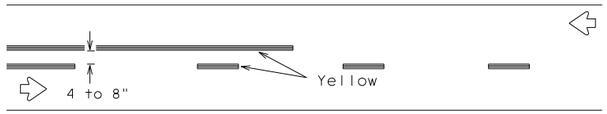
PAVEMENT MARKING PATTERNS



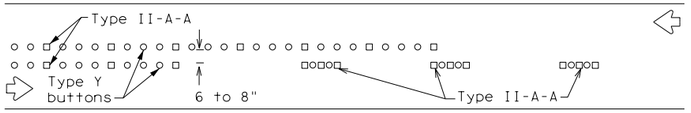
REFLECTORIZED PAVEMENT MARKINGS - PATTERN A



RAISED PAVEMENT MARKERS - PATTERN A



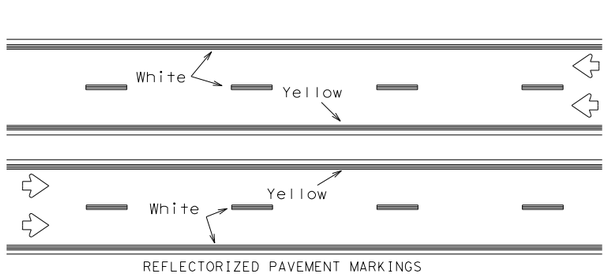
REFLECTORIZED PAVEMENT MARKINGS - PATTERN B



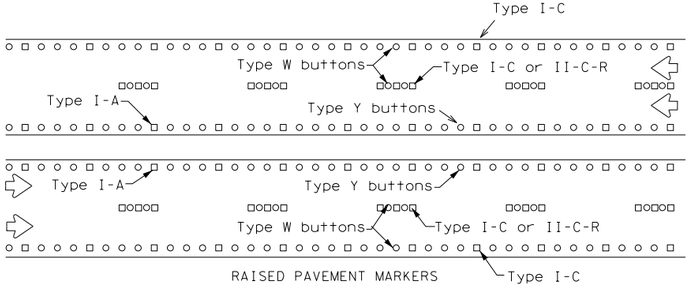
RAISED PAVEMENT MARKERS - PATTERN B

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



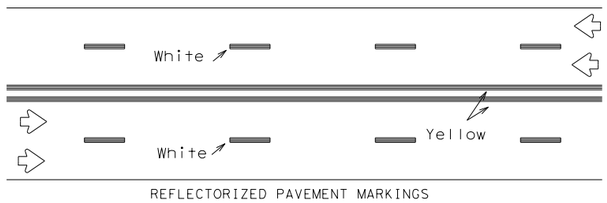
REFLECTORIZED PAVEMENT MARKINGS



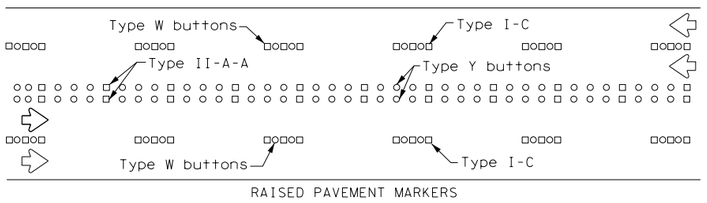
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

EDGE & LANE LINES FOR DIVIDED HIGHWAY



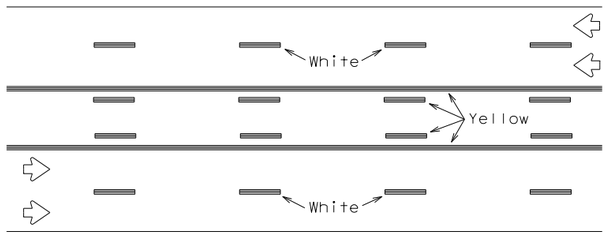
REFLECTORIZED PAVEMENT MARKINGS



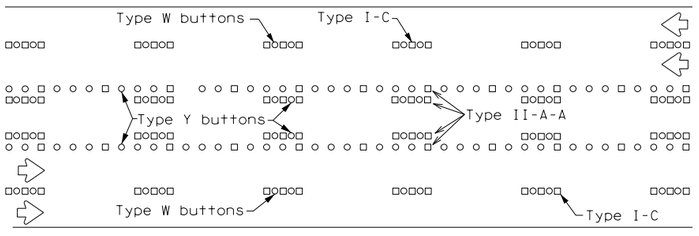
RAISED PAVEMENT MARKERS

Prefabricated markings may be substituted for reflectorized pavement markings.

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS



REFLECTORIZED PAVEMENT MARKINGS



RAISED PAVEMENT MARKERS

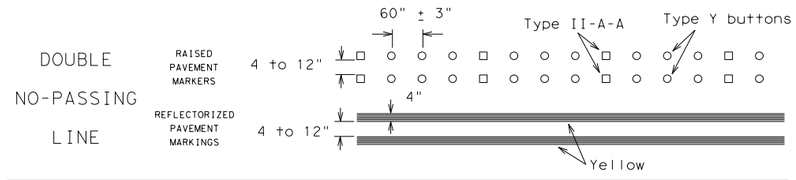
Prefabricated markings may be substituted for reflectorized pavement markings.

TWO-WAY LEFT TURN LANE

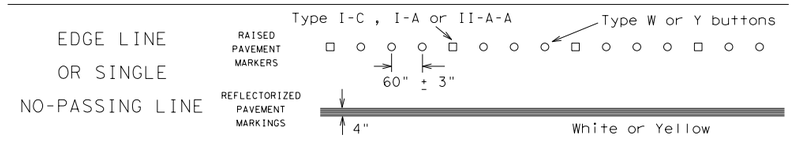
STANDARD WORK ZONE PAVEMENT MARKINGS DETAILS

SOLID LINES

DOUBLE NO-PASSING LINE

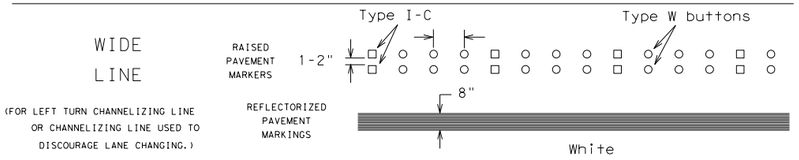


EDGE LINE OR SINGLE NO-PASSING LINE



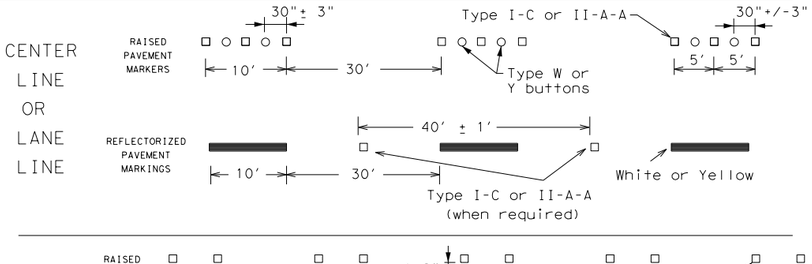
WIDE LINE

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

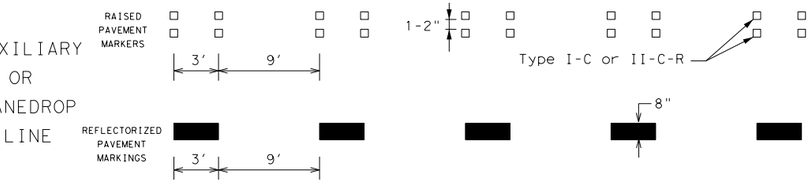


BROKEN LINES

CENTER LINE OR LANE LINE

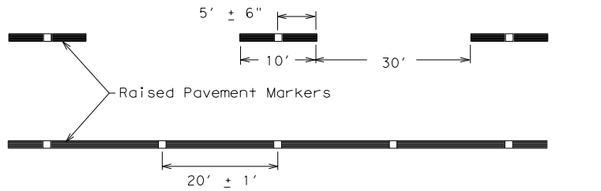


AUXILIARY OR LANEDROP LINE



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."

Texas Department of Transportation

Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

BC(12)-21

FILE: bc-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT February 1998	CONT	SECT	JOB	HIGHWAY
REVISIONS 1-97 9-07 5-21 2-98 7-13 11-02 8-14	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		35

106

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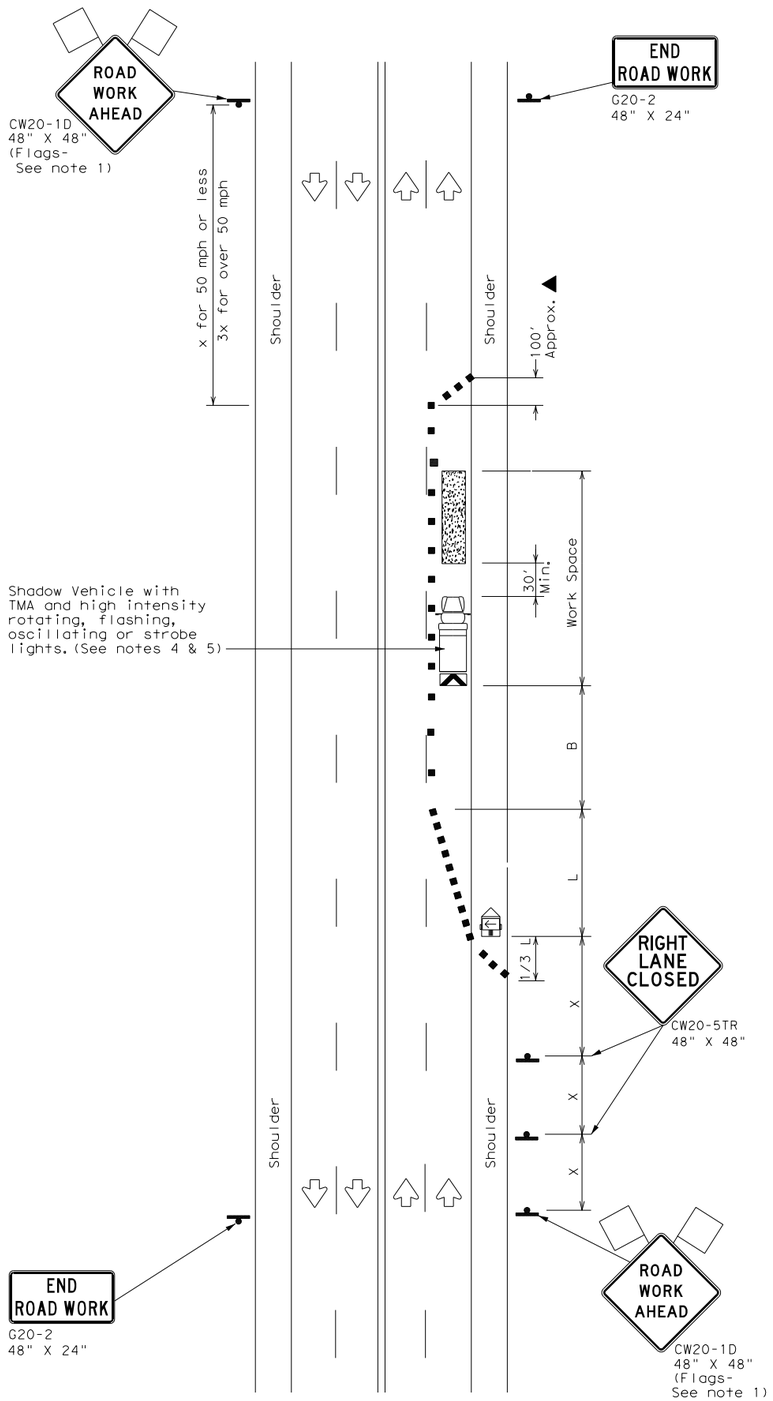
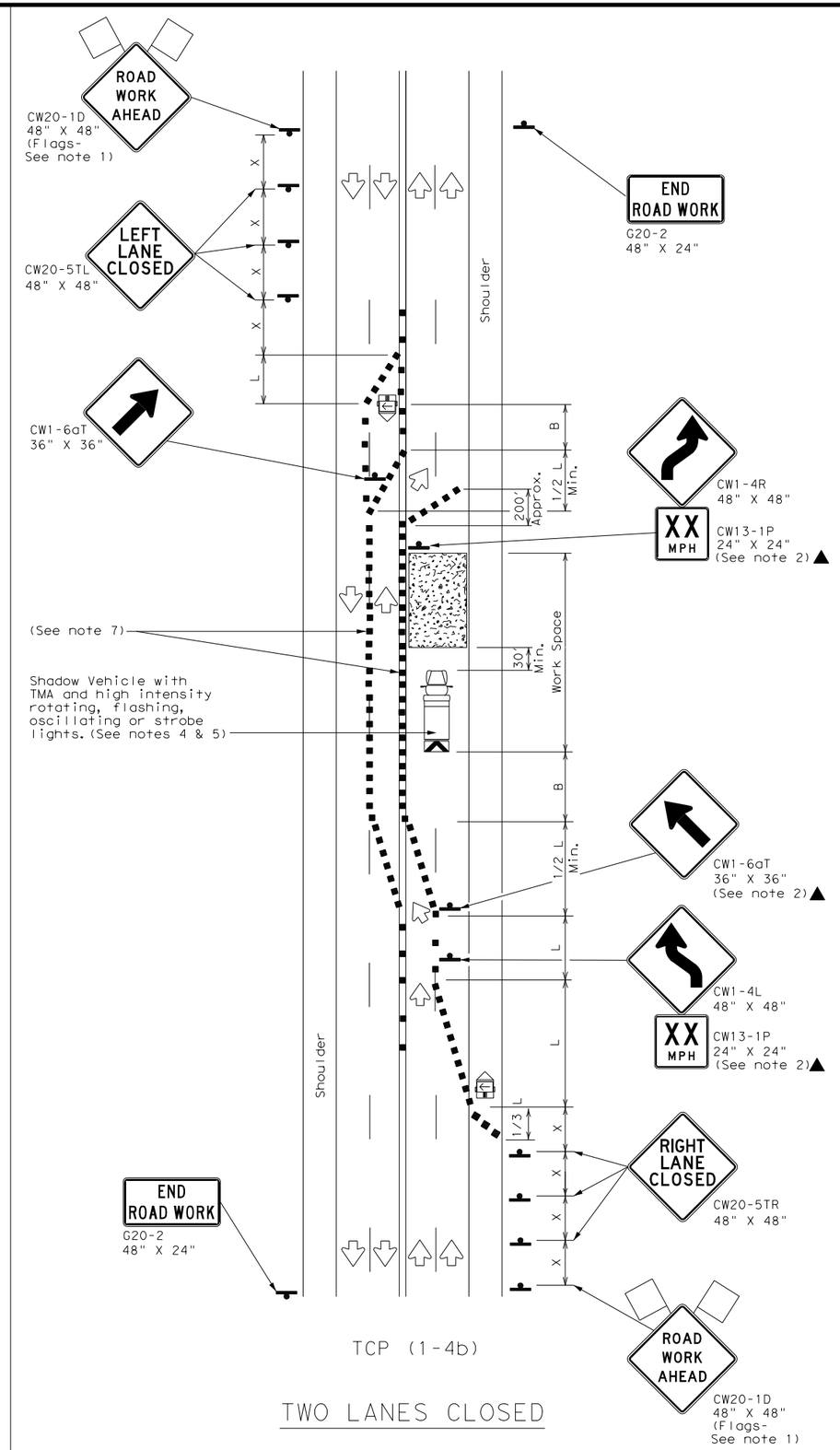


TCP (1-4a)

ONE LANE CLOSED



TCP (1-4b)

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 CW20-1D "ROAD WORK AHEAD" sign may be repeated if the visibility of the work zone is less than 1500 feet.
4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

TCP (1-4a)

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

TCP (1-4b)

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

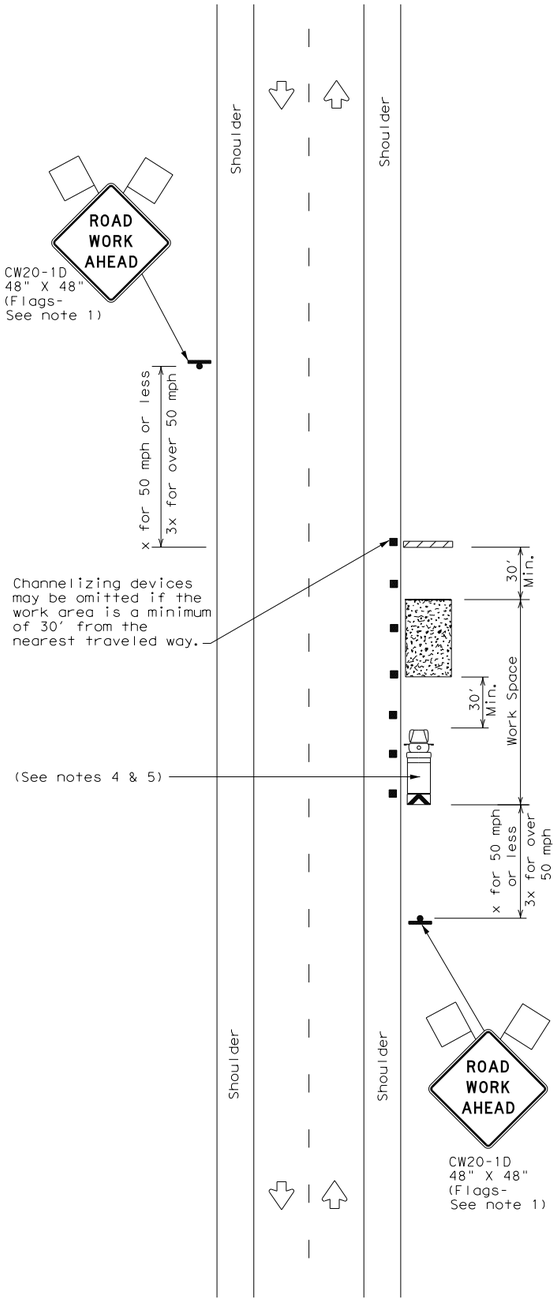
Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC CONTROL PLAN LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS

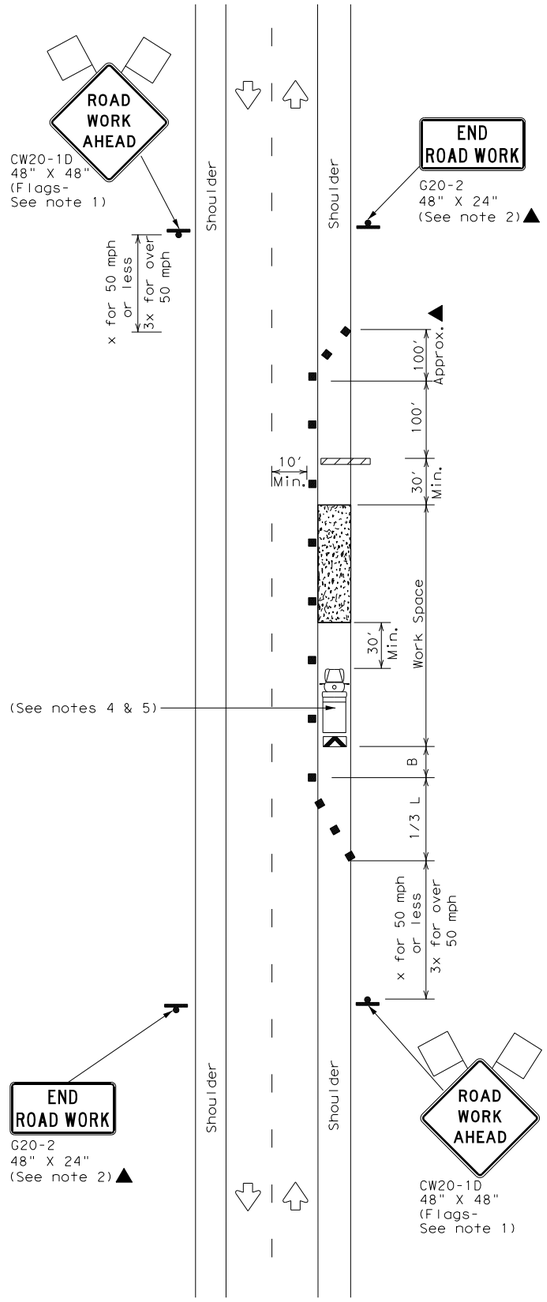
TCP (1-4)-18

FILE: tcp1-4-18.dgn	DN:	CK:	DW:	CK:
© TxDOT December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS	902	41	2	US 67, ETC
2-94 4-98	DIST	COUNTY		SHEET NO.
8-95 2-12	FTW	SOMERVELL		36
1-97 2-18				



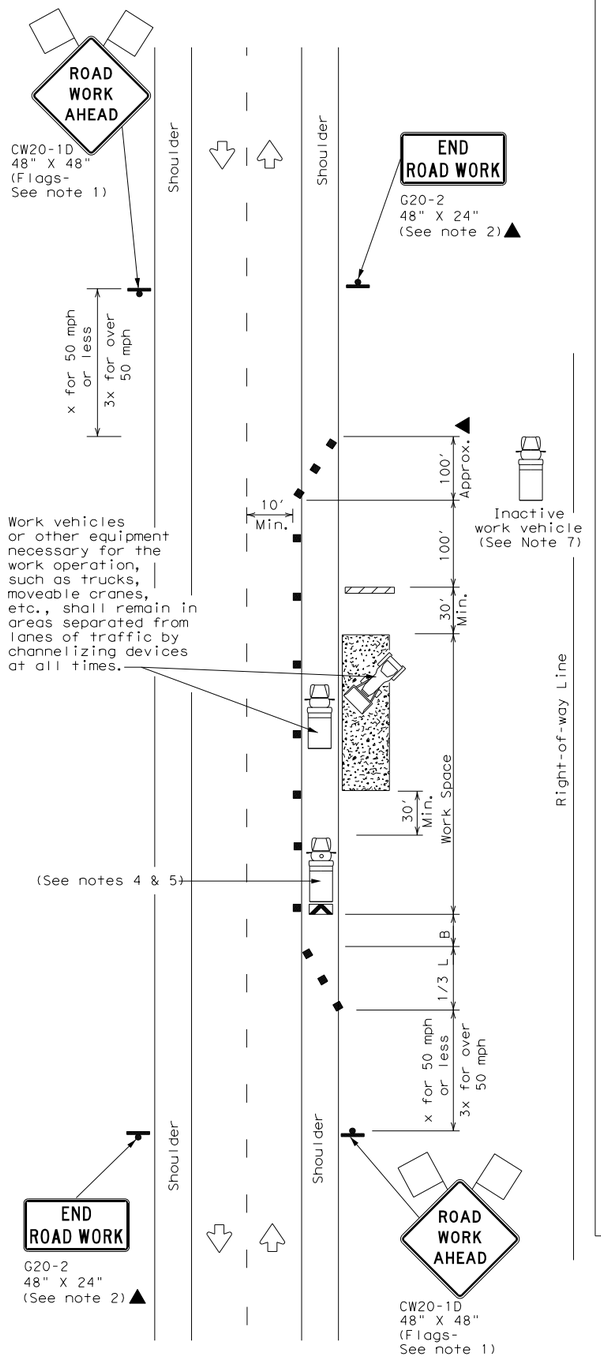
TCP (2-1a)

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	902	41	2	US 67, ETC
2-94 4-98	DIST	COUNTY		SHEET NO.
8-95 2-12	FTW	SOMERVELL		37
1-97 2-18				

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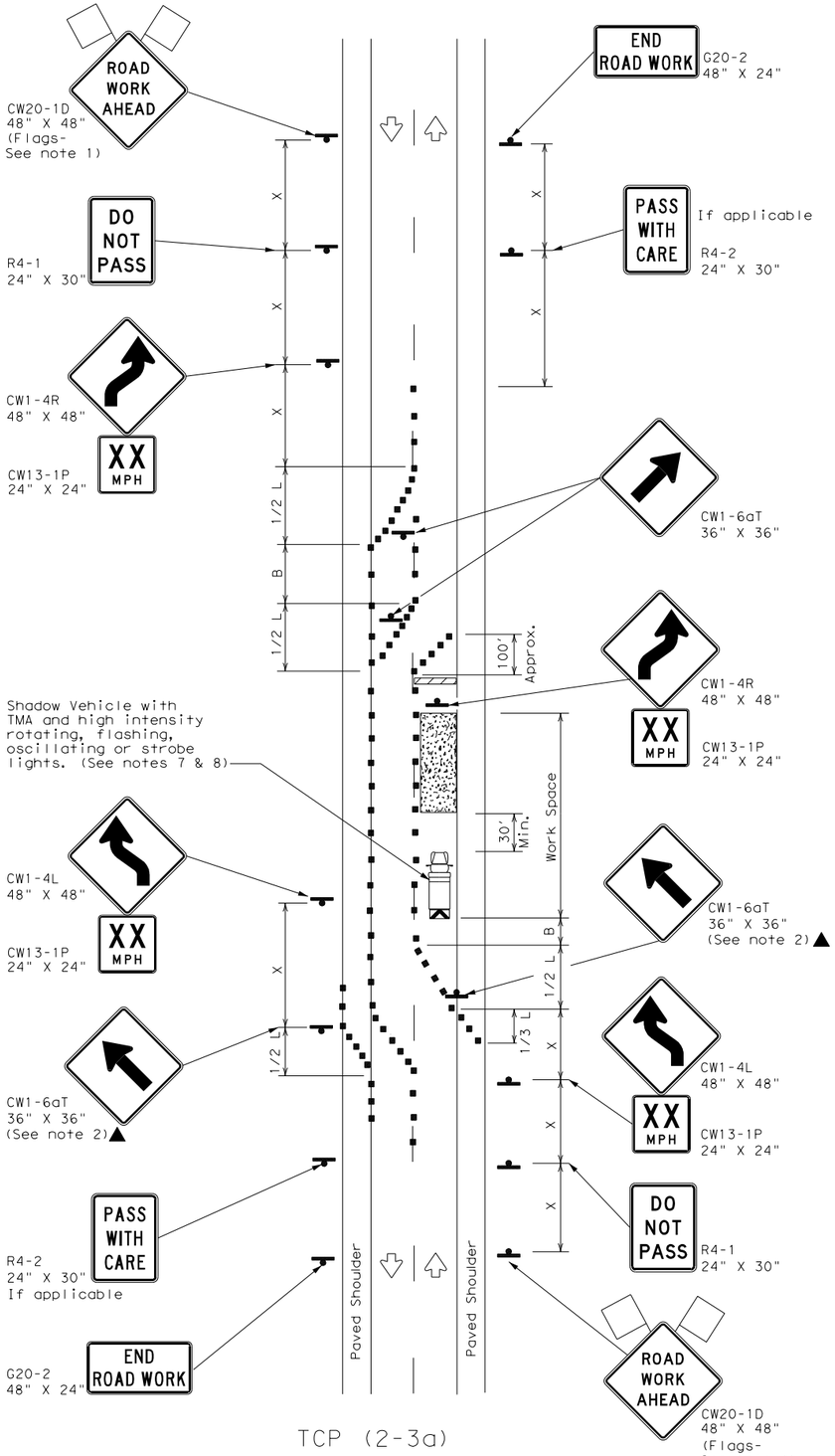
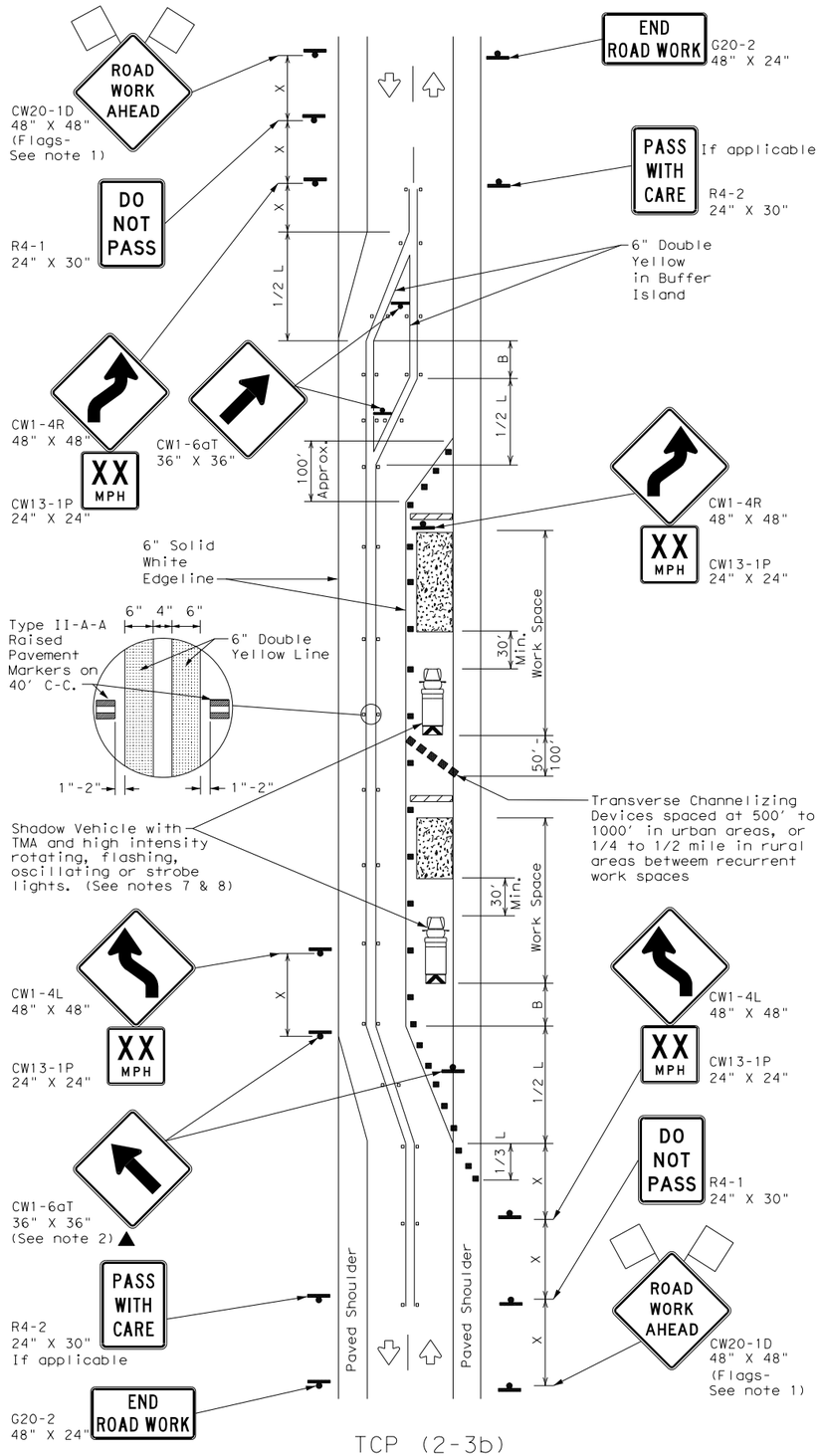


TCP (2-3a)
2-LANE ROADWAY WITH PAVED SHOULDERS
ONE LANE CLOSED
ADEQUATE FIELD OF VIEW



TCP (2-3b)
2-LANE ROADWAY WITH PAVED SHOULDERS
ONE LANE CLOSED
INADEQUATE FIELD OF VIEW

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Raised Pavement Markers Ty II-AA
	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
				TCP(2-3b)ONLY
			✓	✓

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. When work space will be in place less than three days existing pavement markings may remain in place. Channelizing devices shall be used to separate traffic.
4. Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Flagger should be positioned at end of traffic queue.
5. The R4-1 "DO NOT PASS," R4-2 " PASS WITH CARE" and construction regulatory speed zone signs may be installed within CW20-1D "ROAD WORK AHEAD" signs. Proper spacing of signs shall be maintained.
6. Conflicting pavement marking shall be removed for long term projects.
7. 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.
8. 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 (2-3a)

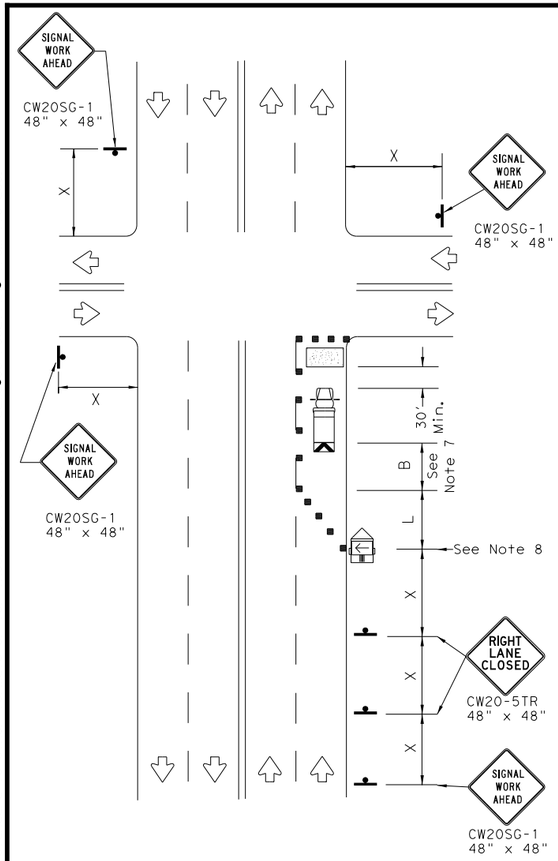
9. Conflicting pavement markings shall be removed for long-term projects. For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter device spacing is intended for the area of the conflicting markings, not the entire work zone.

Texas Department of Transportation
Traffic Safety Division Standard

TRAFFIC CONTROL PLAN TRAFFIC SHIFTS ON TWO-LANE ROADS

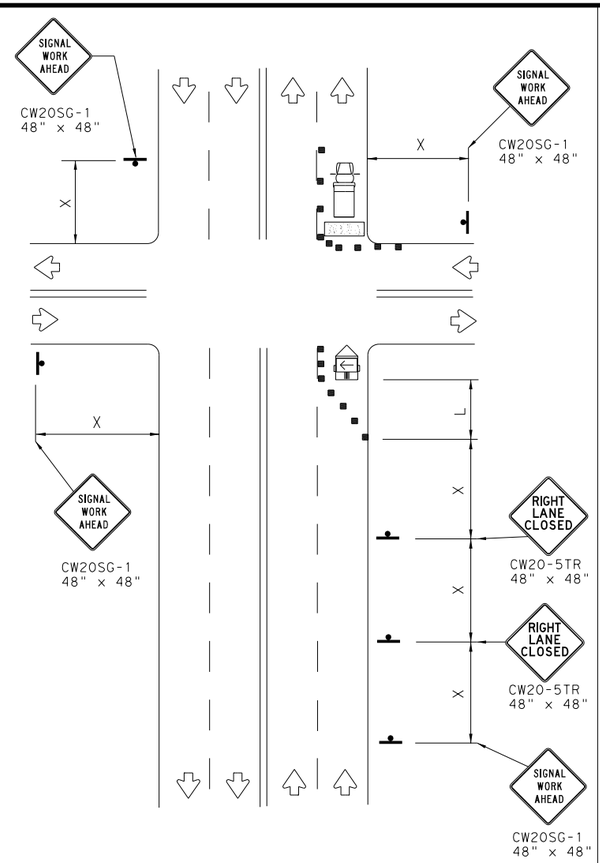
TCP (2-3) -23

FILE: tcp(2-3)-23.dgn	DN:	CK:	DW:	CK:
© TxDOT April 2023	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-85 4-98 2-18 8-95 3-03 4-23 1-97 2-12	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		38



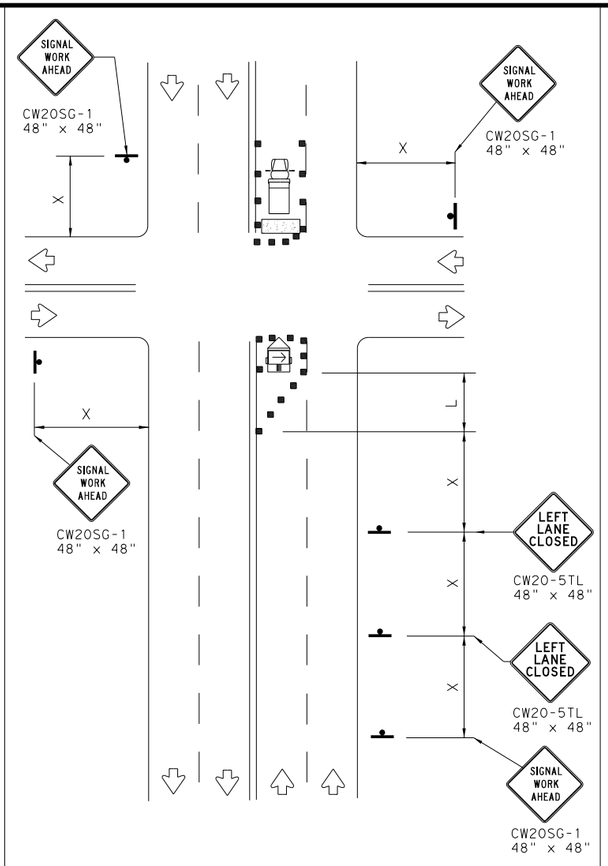
NEAR SIDE LANE CLOSURE

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

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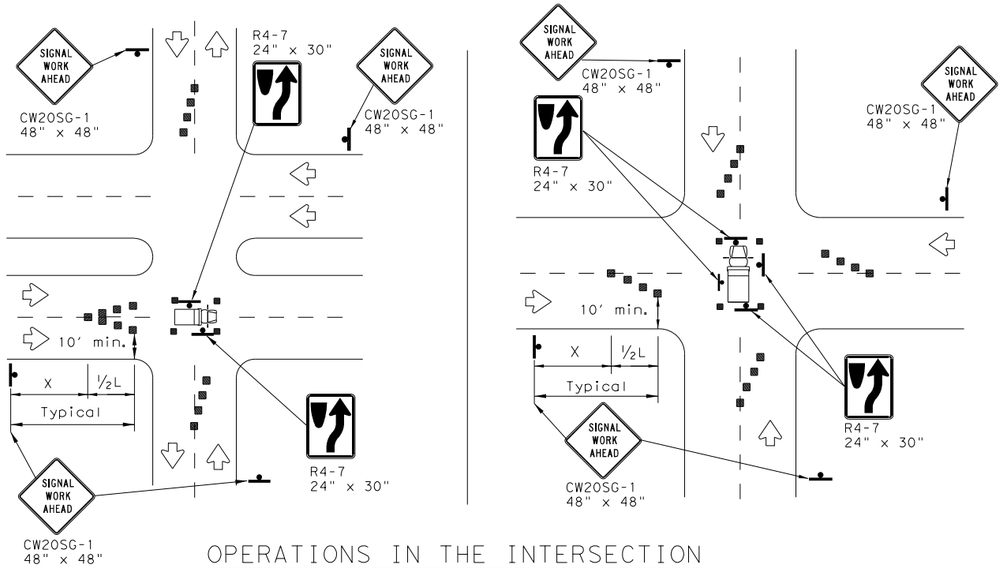
L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

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.

SHEET 1 OF 2

Texas Department of Transportation

Traffic Operations Division Standard

TRAFFIC SIGNAL WORK TYPICAL DETAILS

WZ(BTS-1)-13

FILE: wzbts-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©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	FTW	SOMERVELL		39

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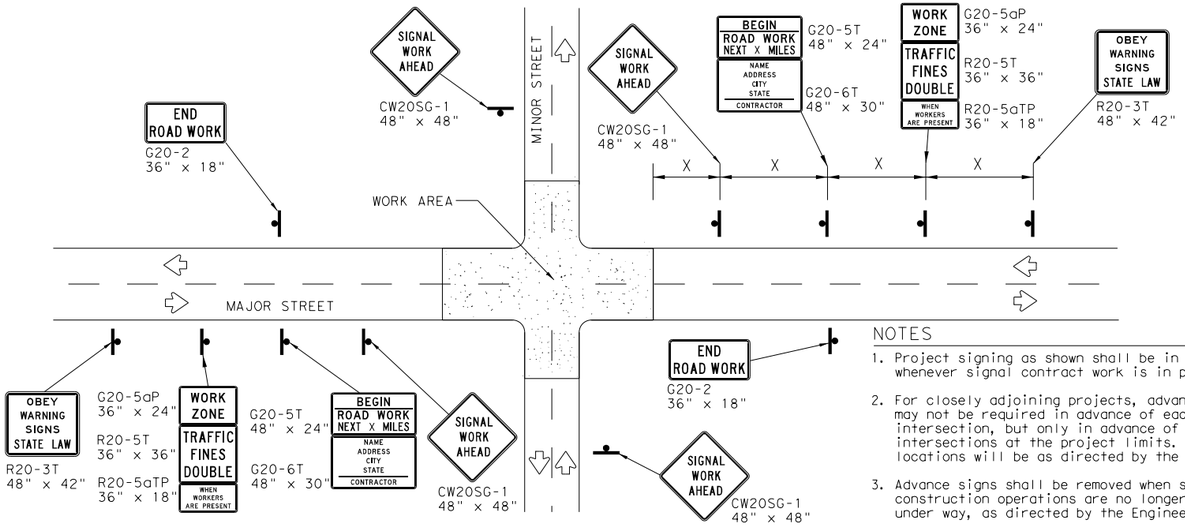


TYPICAL ADVANCE SIGNAL PROJECT SIGNING

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

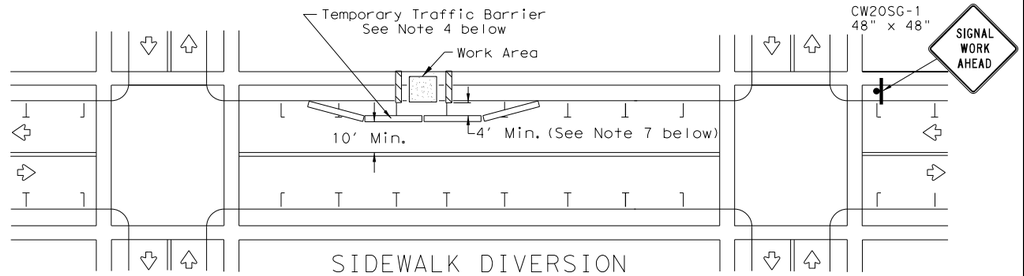
1. Weights used to keep signs from turning over should be sandbags filled with dry, cohesionless material.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects will not be permitted for use as sign support 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

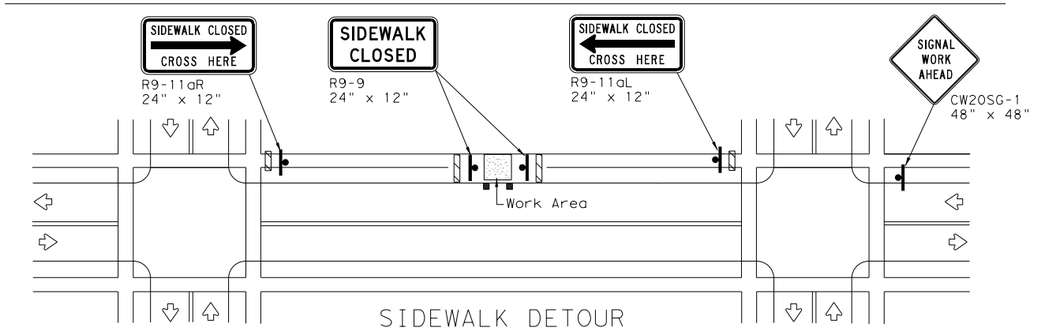
DEPARTMENTAL MATERIAL SPECIFICATIONS	
SIGN FACE MATERIALS	DMS-8300
FLEXIBLE ROLL-UP REFLECTIVE SIGNS	DMS-8310

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

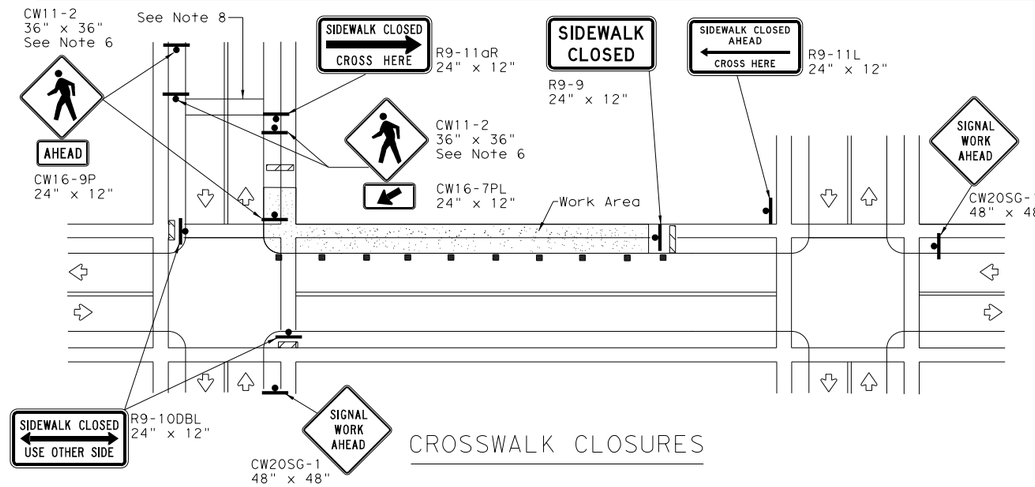
Only pre-qualified products shall be used. A copy of the "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found at the following web address:
http://www.txdot.gov/txdot_library/publications/construction.htm



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	902	41	2	US 67, ETC
2-98 10-99 7-13	DIST	COUNTY		SHEET NO.
4-98 3-03	FTW	SOMERVELL		40

DATE: 4/12/2024 4:37:38 PM
FILE: wzbts-13.dgn

100% PLANS SUBMITTAL

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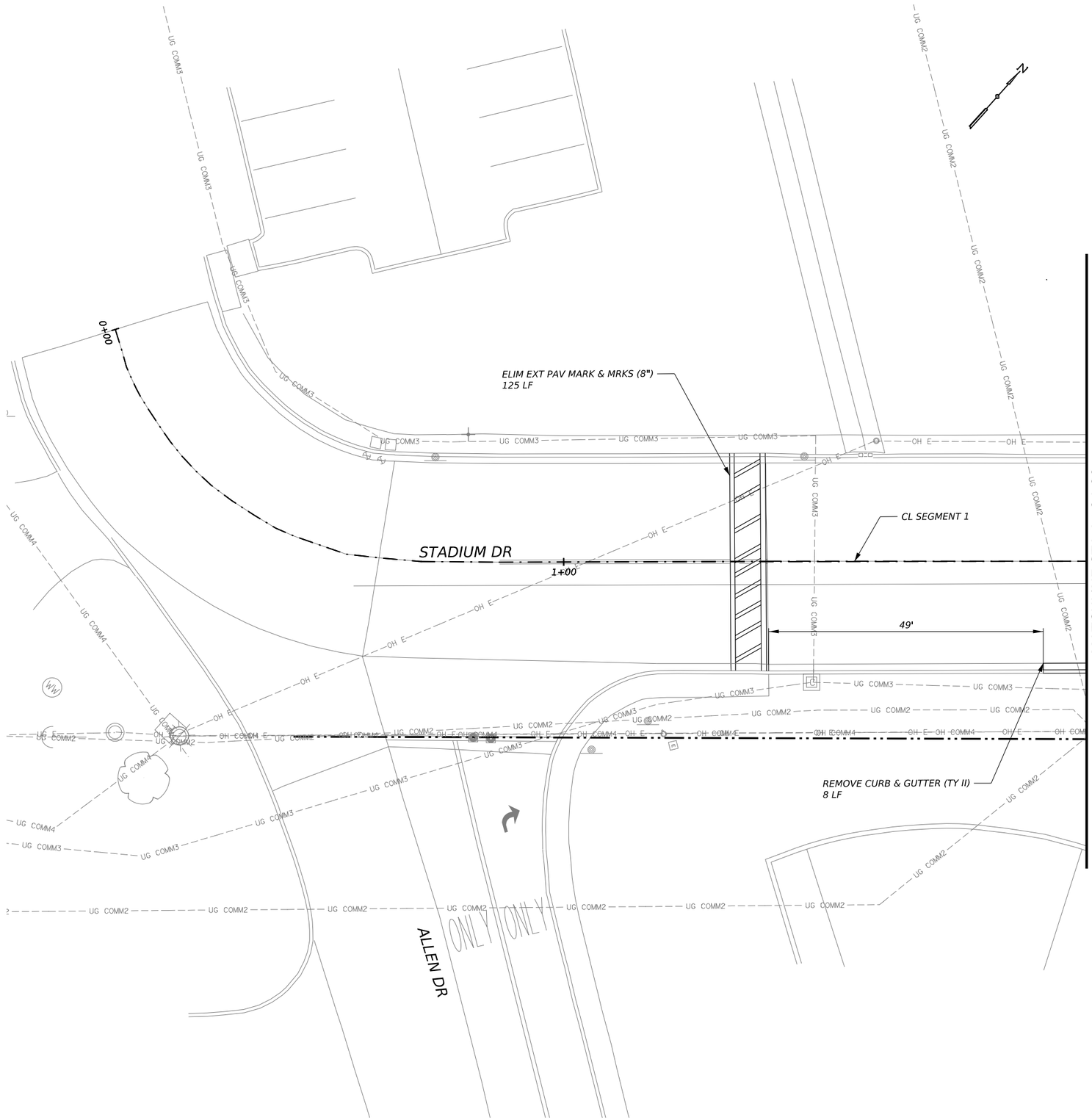

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

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2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
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4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
STADIUM DR
BEGIN SEG 1
TO STA 1+94.00

SHEET 1 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		41

DATE: 4/12/2024 3:07:13 PM
FILE: GR_SRTS_RMV_01.dgn

100% PLANS SUBMITTAL

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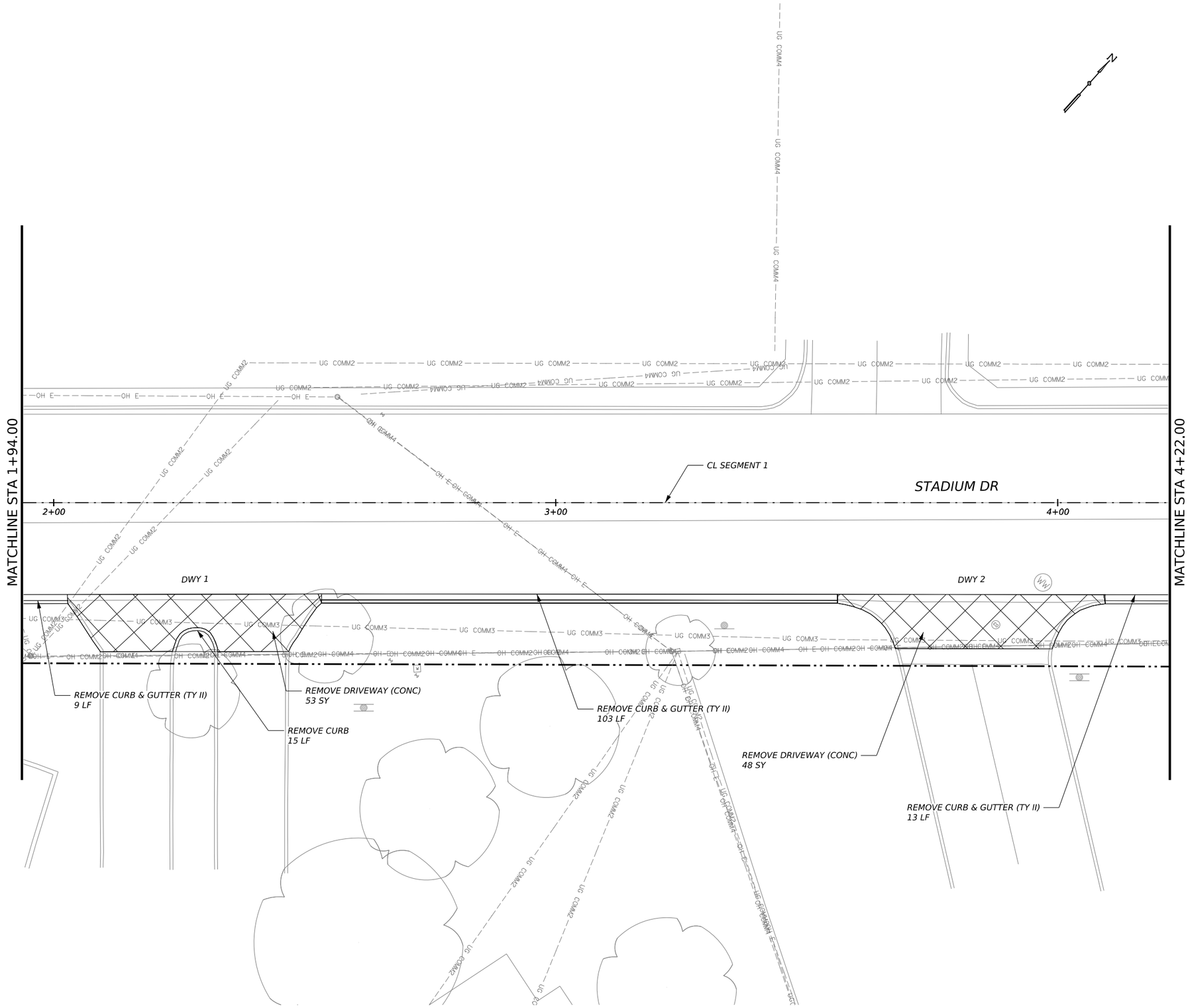

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
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SAFE ROUTES

REMOVAL PLAN
STADIUM DR
STA 1+94.00 TO STA 4+22.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		42

DATE: 4/12/2024 3:07:22 PM
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100% PLANS SUBMITTAL

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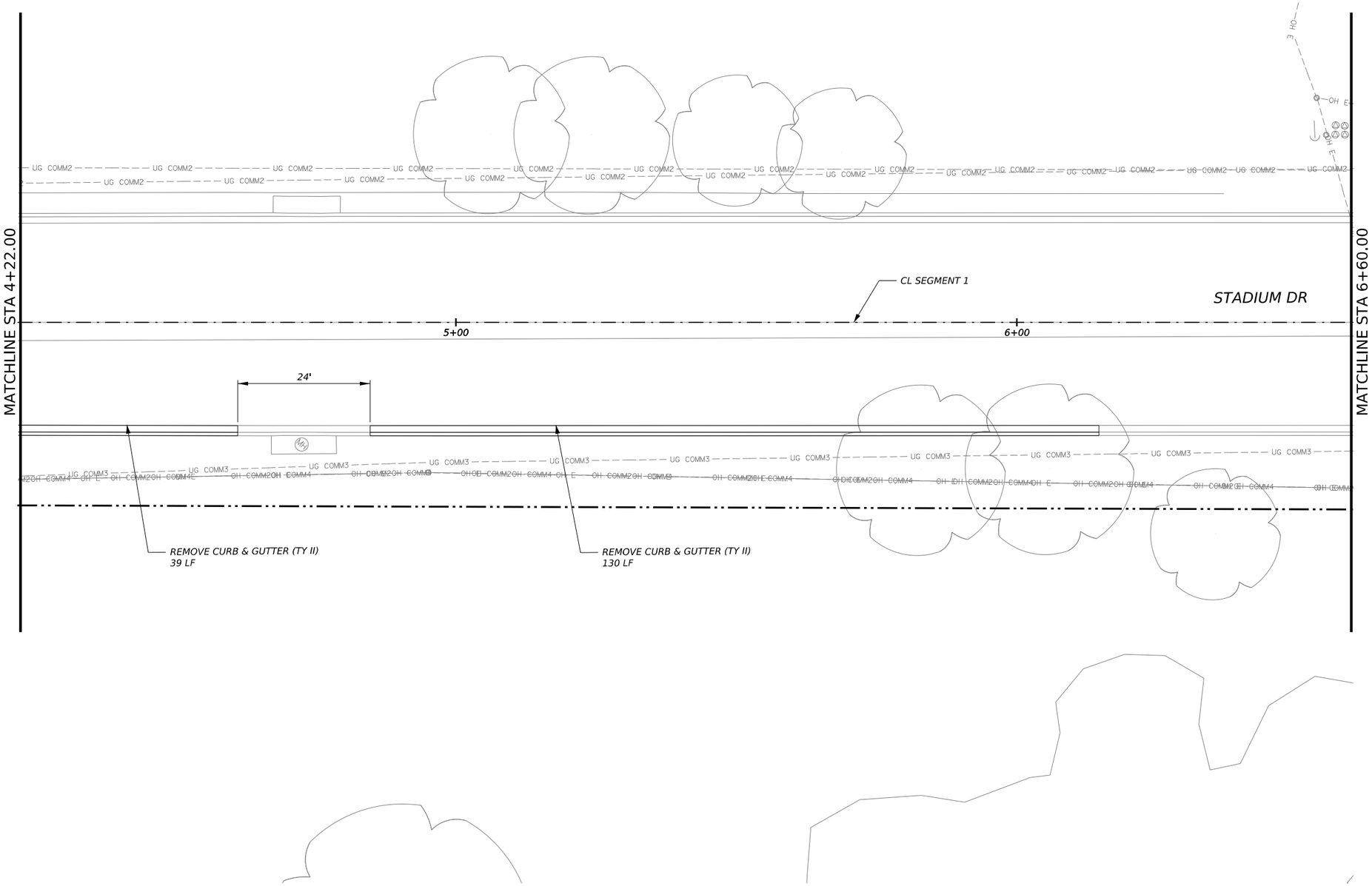

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
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04-15-2024

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Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
STADIUM DR
STA 4+22.00 TO STA 6+60.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		43

DATE: 4/12/2024 3:07:31 PM
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100% PLANS SUBMITTAL

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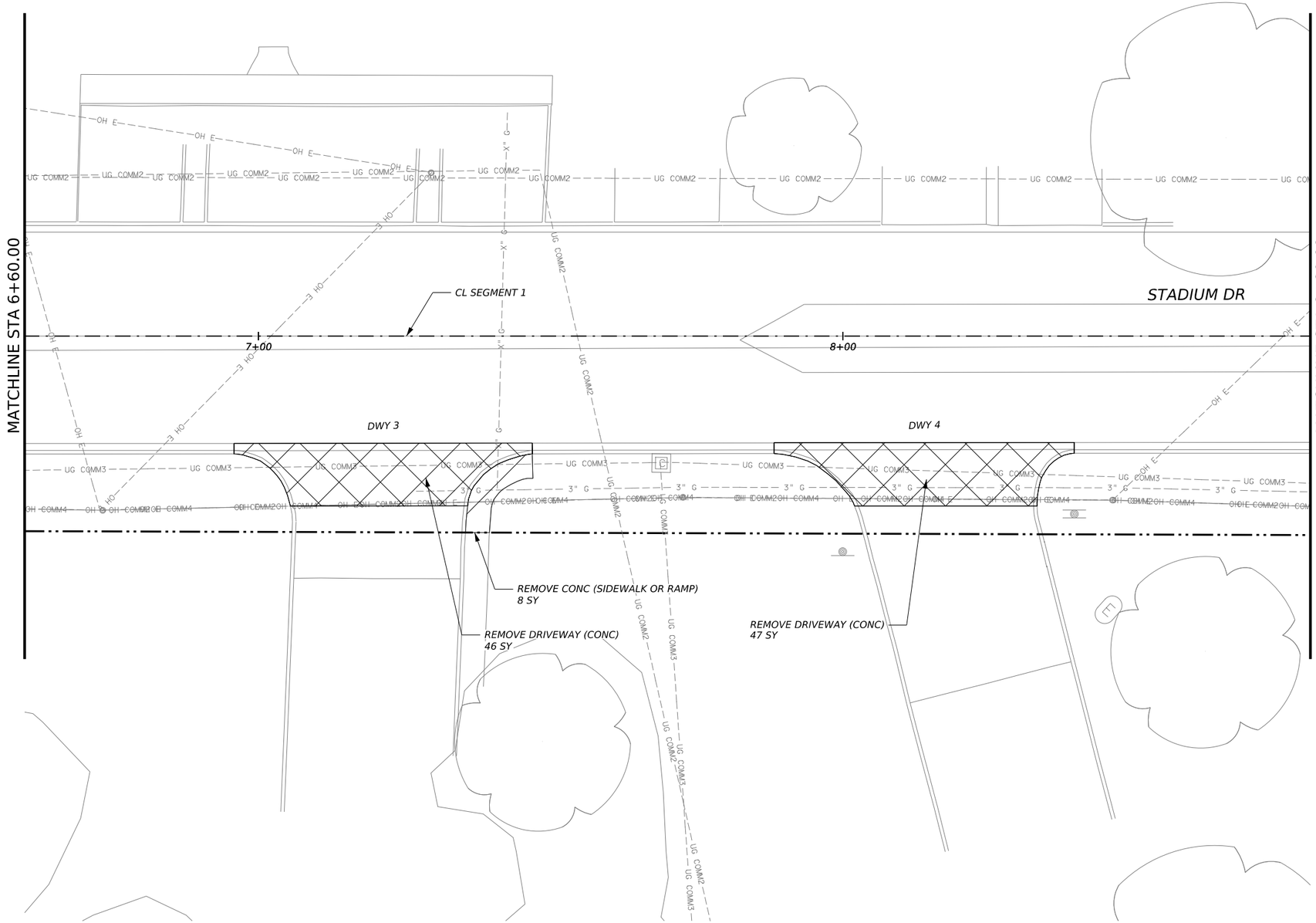

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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04-15-2024

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Round Rock, Texas 78681

SAFE ROUTES

REMOVAL PLAN
STADIUM DR
STA 6+60.00 TO STA 8+80.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		44

DATE: 4/12/2024 3:07:40 PM
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100% PLANS SUBMITTAL

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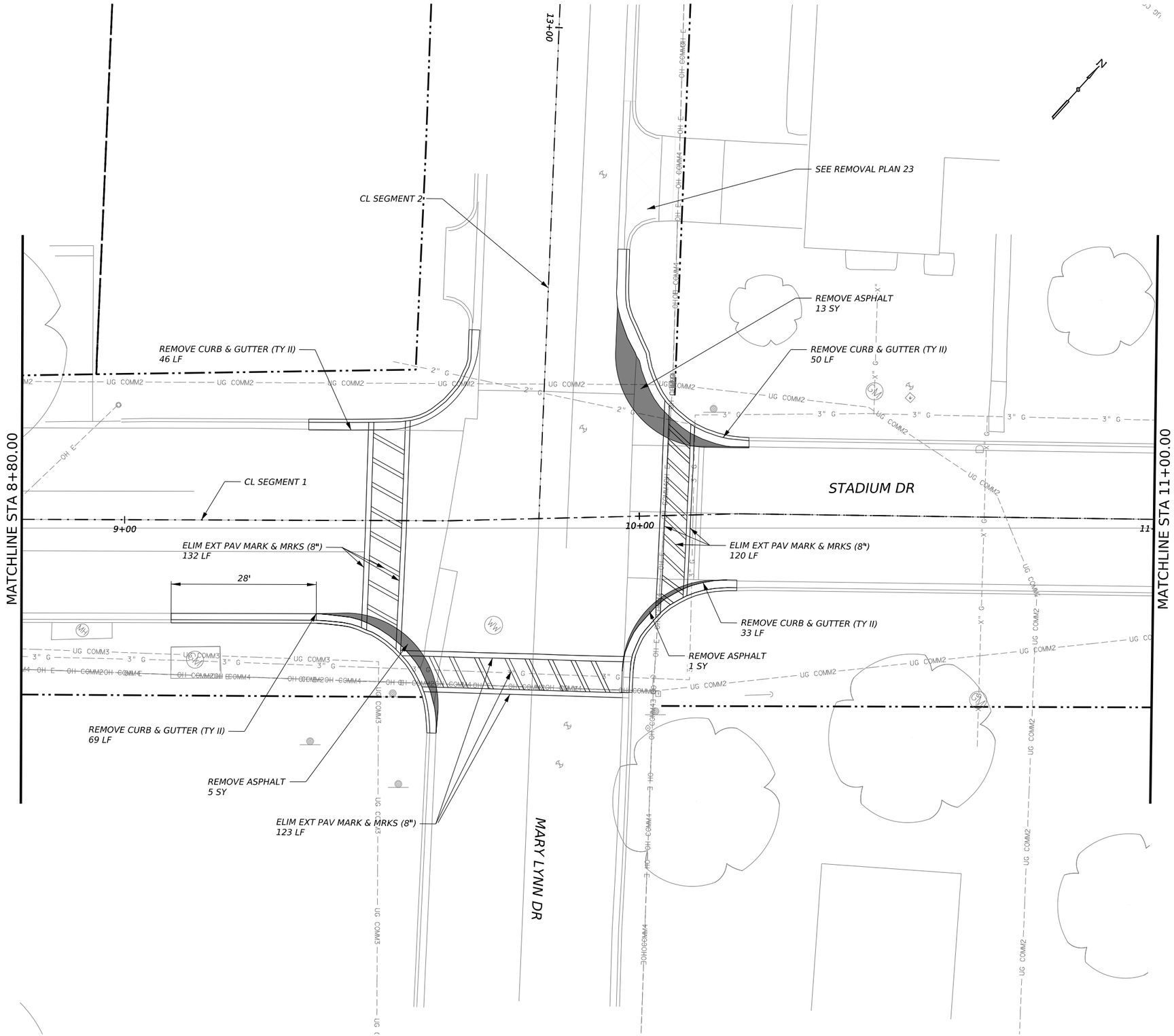
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
STADIUM DR
STA 8+80.00 TO STA 11+00.00

SHEET 5 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		45

DATE: 4/12/2024 3:07:48 PM
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100% PLANS SUBMITTAL

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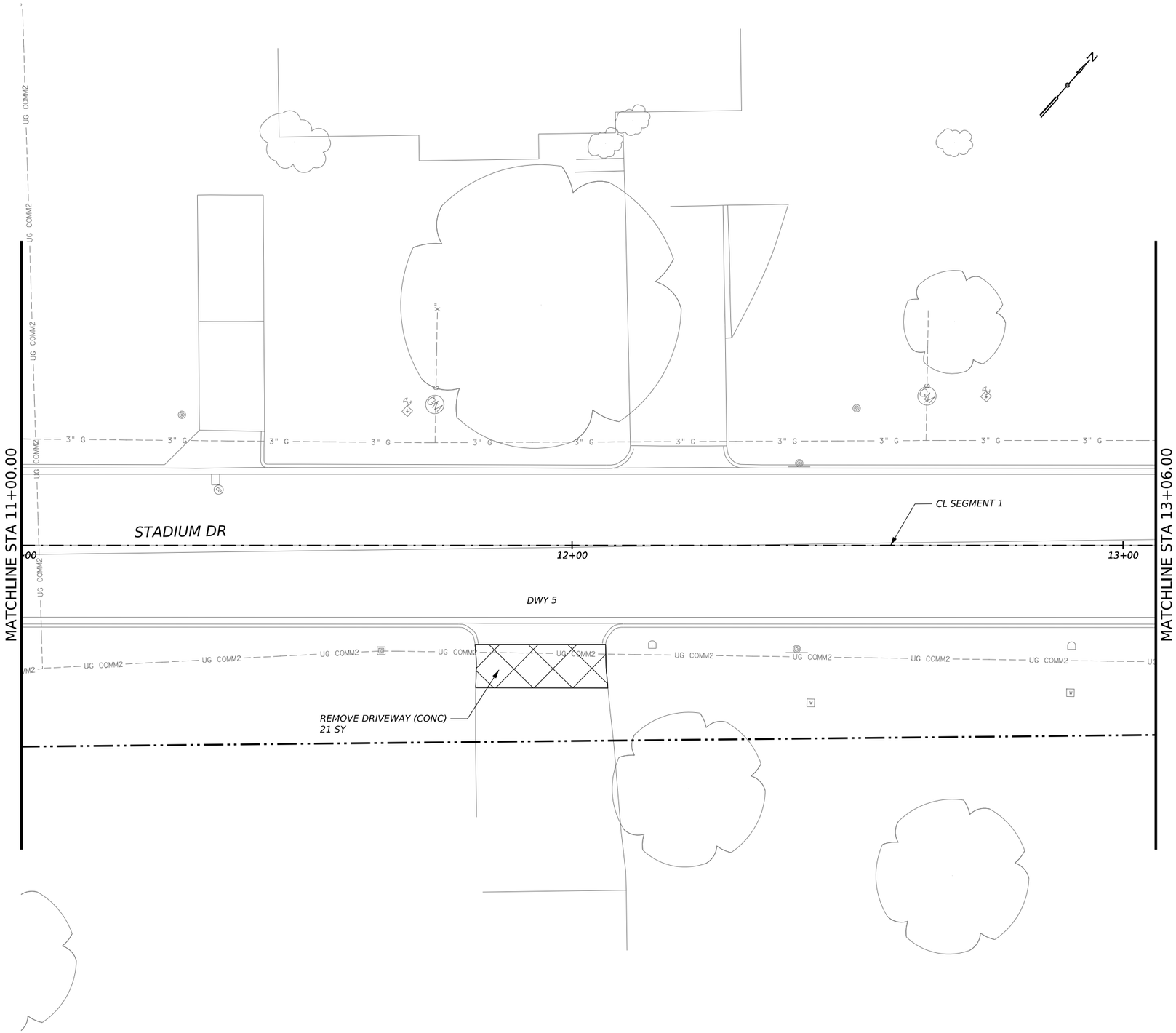

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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SCALE IN FEET
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04-15-2024

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Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
STADIUM DR
STA 11+00.00 TO STA 13+06.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		46

DATE: 4/12/2024 3:07:58 PM
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100% PLANS SUBMITTAL

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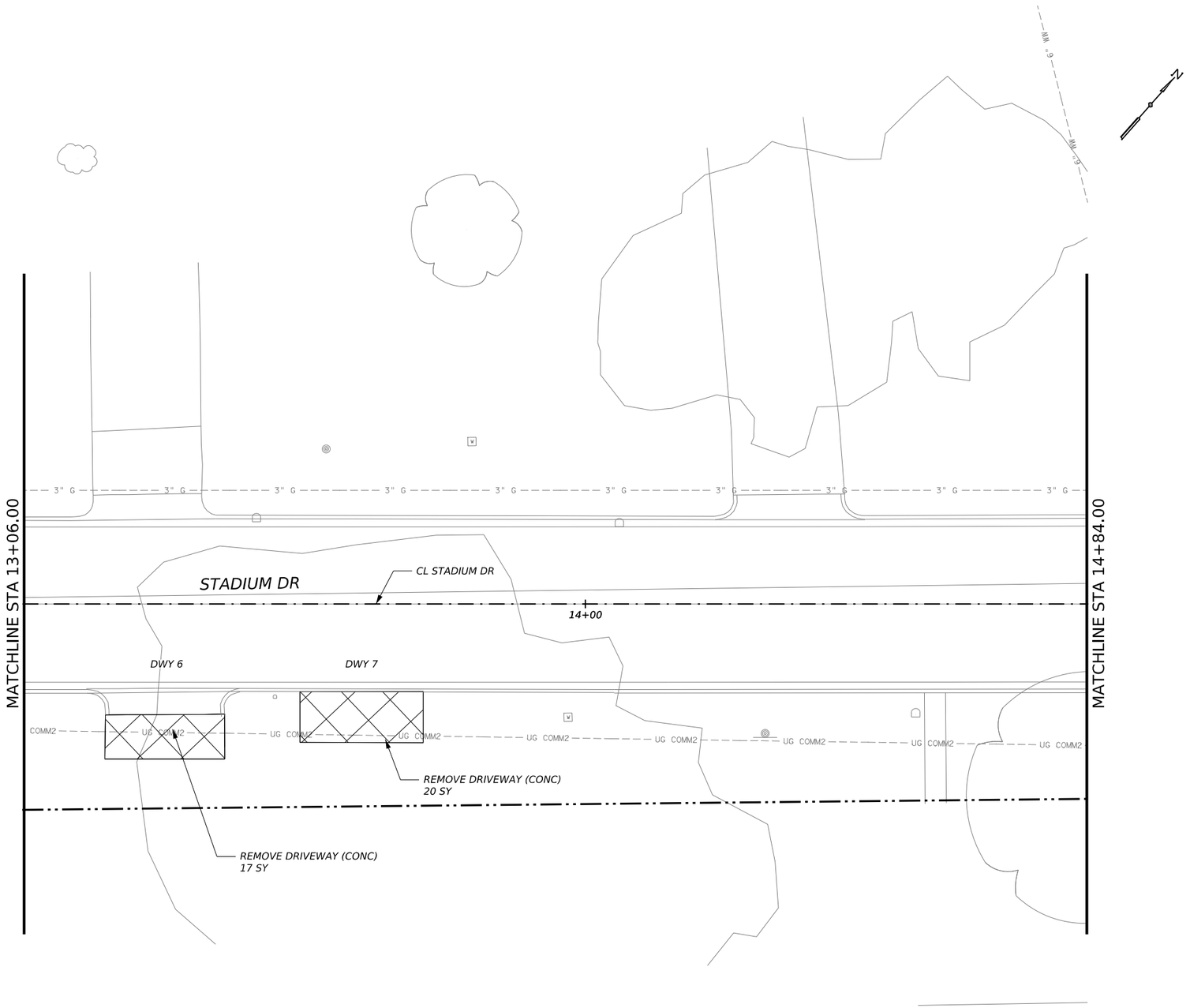

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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SCALE IN FEET
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Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
STADIUM DR
STA 13+06.00 TO STA 14+84.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		47

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100% PLANS SUBMITTAL

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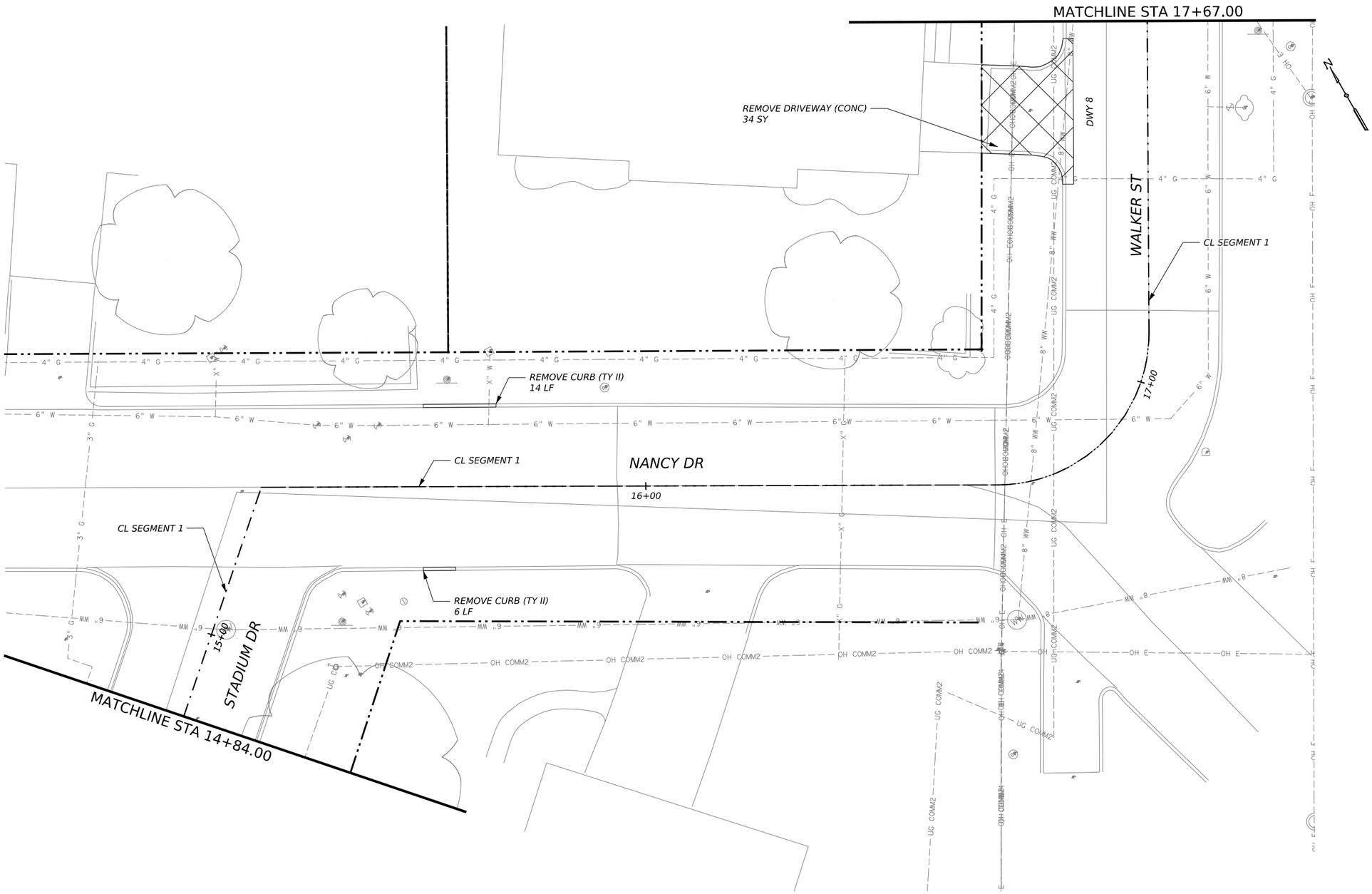

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

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04-15-2024

STATE OF TEXAS
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PROFESSIONAL
ENGINEER

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710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
NANCY DR
STA 14+49.81 TO STA 17+67.00

SHEET 8 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		48

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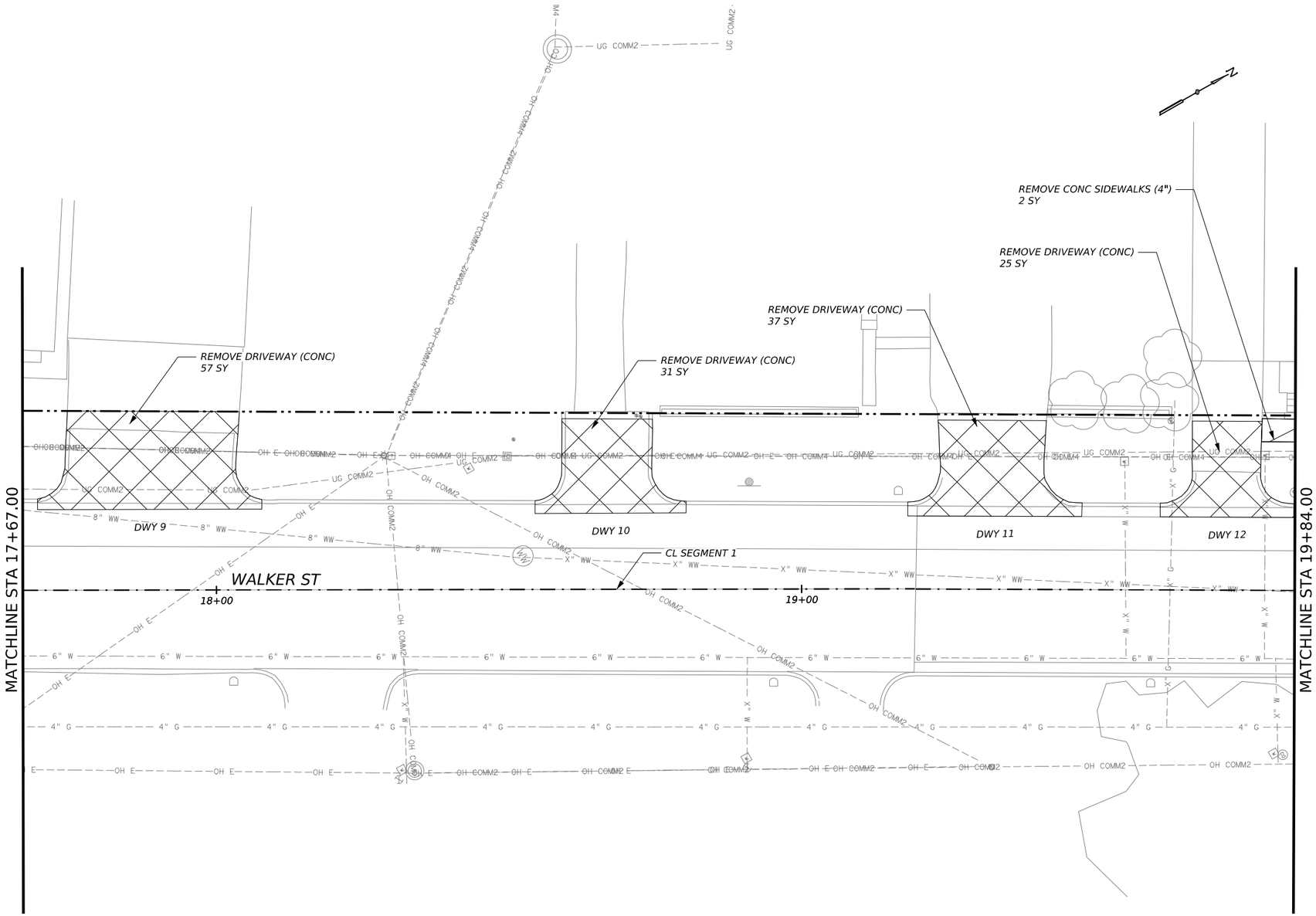

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
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0 10 20 30 40

SCALE IN FEET
1"=20'

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04-15-2024

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SAFE ROUTES

REMOVAL PLAN
WALKER ST
STA 17+67.00 TO STA 19+84.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		49

DATE: 4/12/2024 3:08:29 PM
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100% PLANS SUBMITTAL

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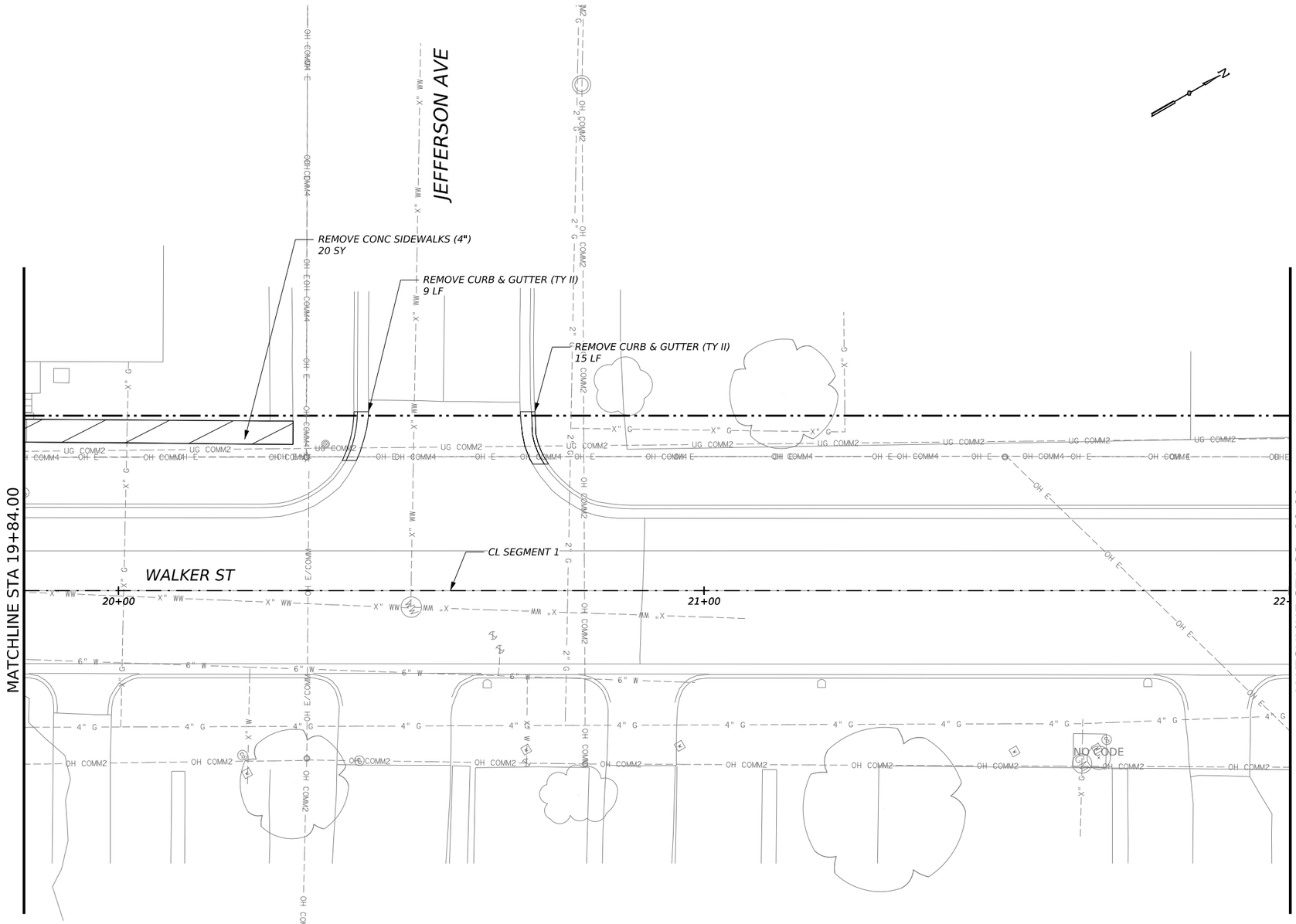

LEGEND

- APPARENT ROW
- CENTERLINE
- REMOVE DRIVEWAY
- REMOVE SIDEWALK/RAMP
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0 10 20 30 40

SCALE IN FEET
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
WALKER ST
STA 19+84.00 TO STA 22+00.00

SHEET 10 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		50

DATE: 4/12/2024 3:08:38 PM
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100% PLANS SUBMITTAL

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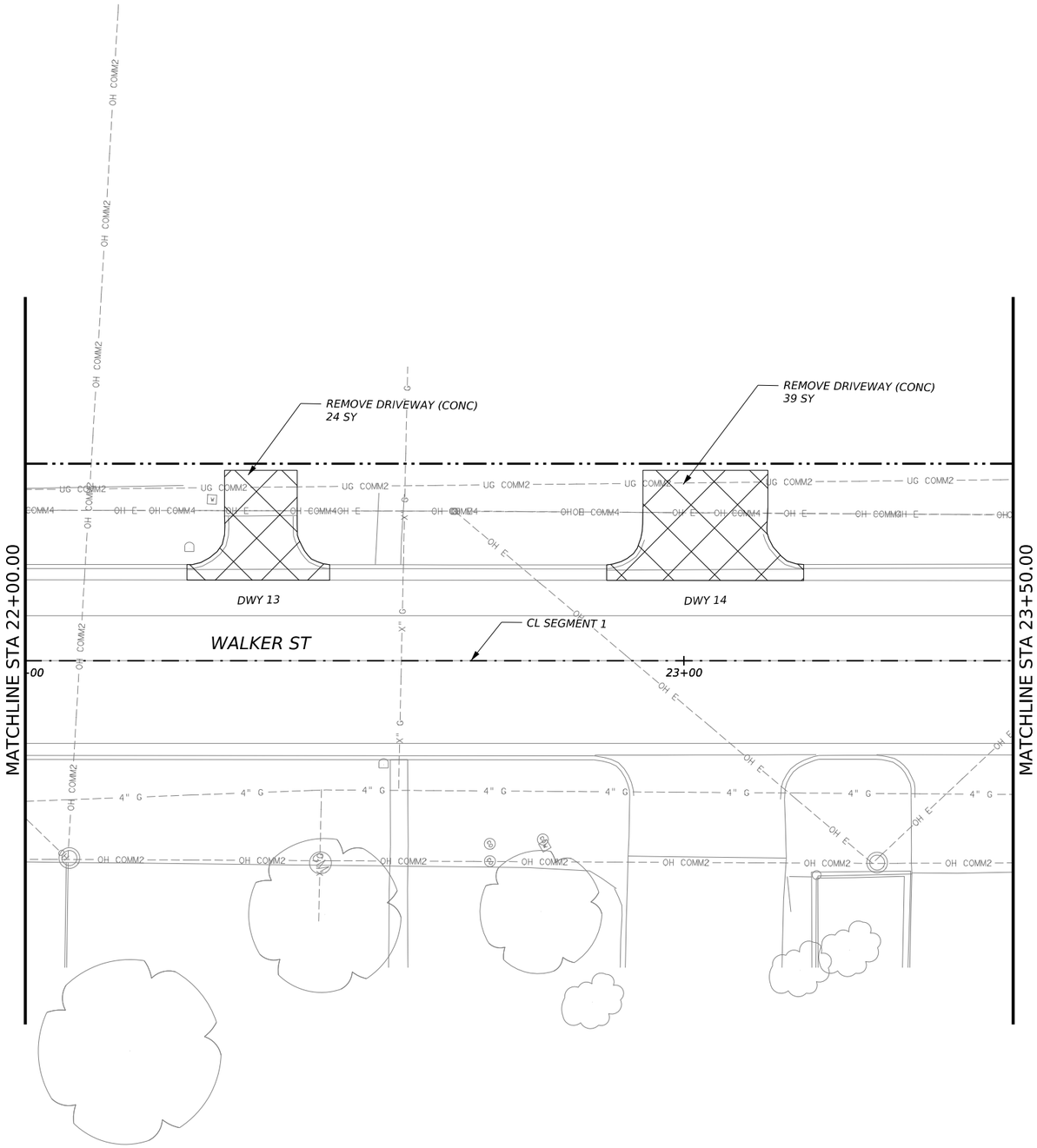

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
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- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
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SCALE IN FEET
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710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

REMOVAL PLAN
WALKER ST
STA 22+00.00 TO STA 23+50.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		51

DATE: 4/12/2024 3:08:48 PM
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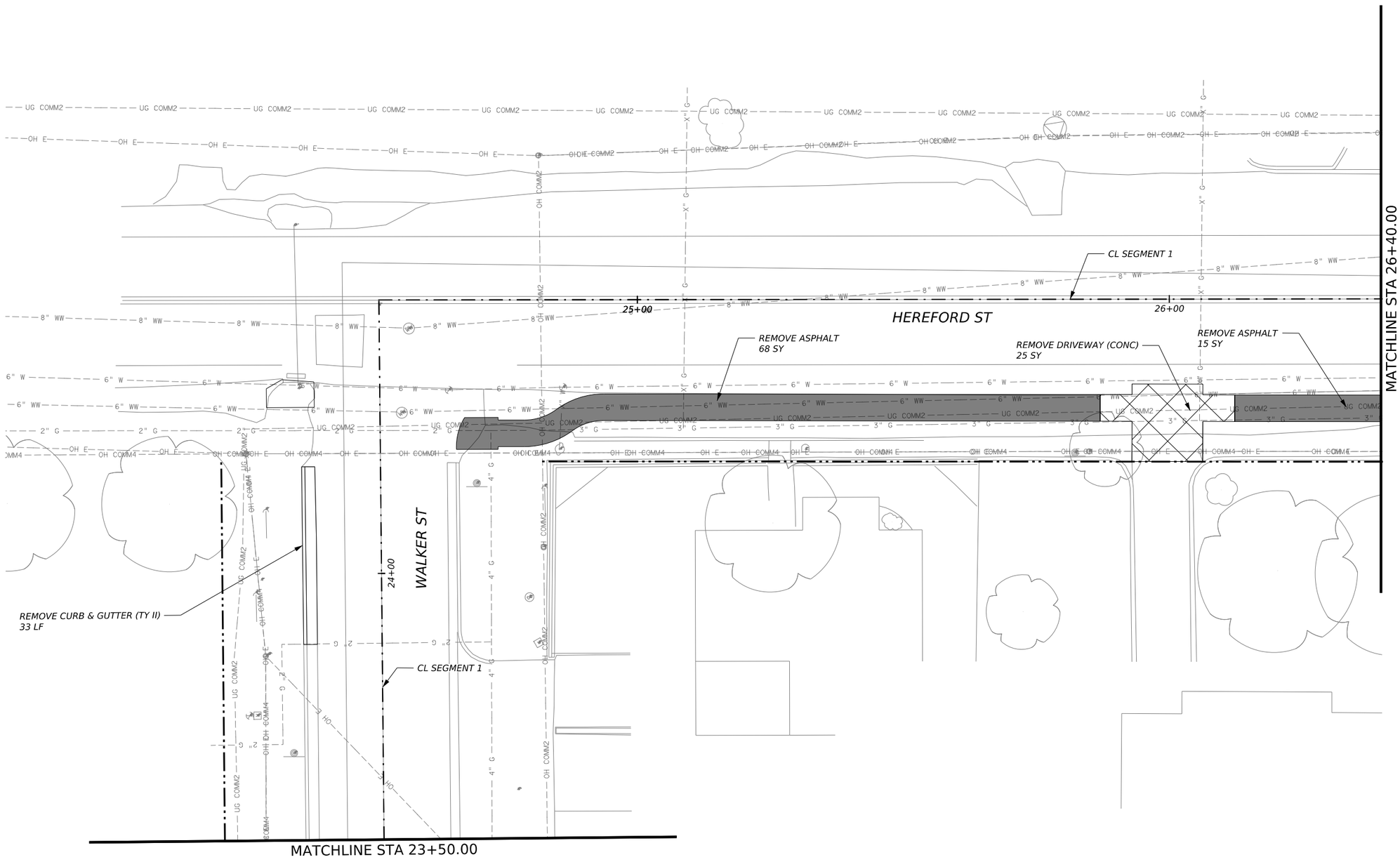
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
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Round Rock, Texas 78681

SAFE ROUTES

REMOVAL PLAN
HEREFORD ST
STA 23+50.00 TO STA 26+40.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		52

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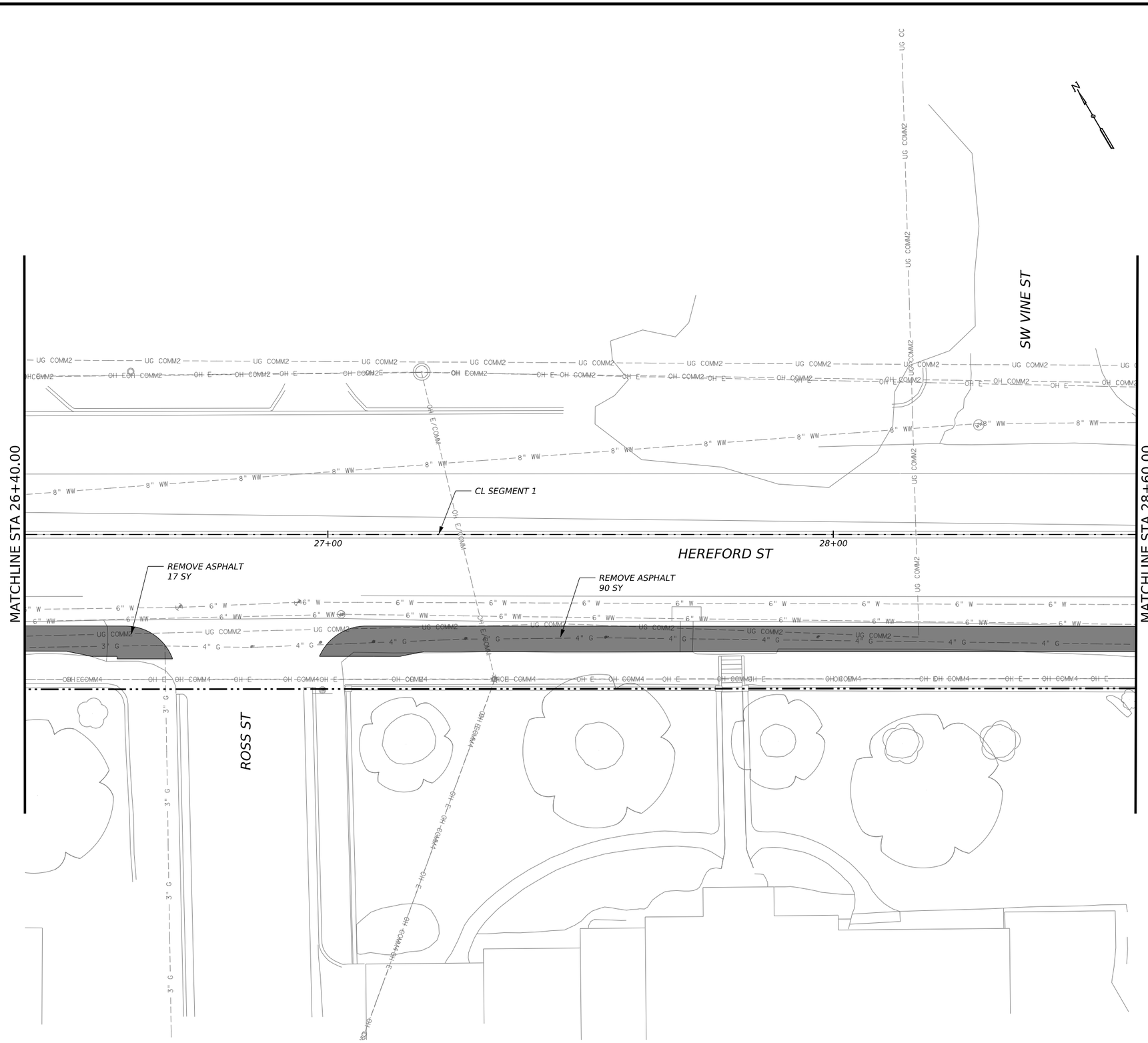

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
HEREFORD ST
STA 26+40.00 TO STA 28+60.00

SHEET 13 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		53

DATE: 4/12/2024 3:09:08 PM
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100% PLANS SUBMITTAL

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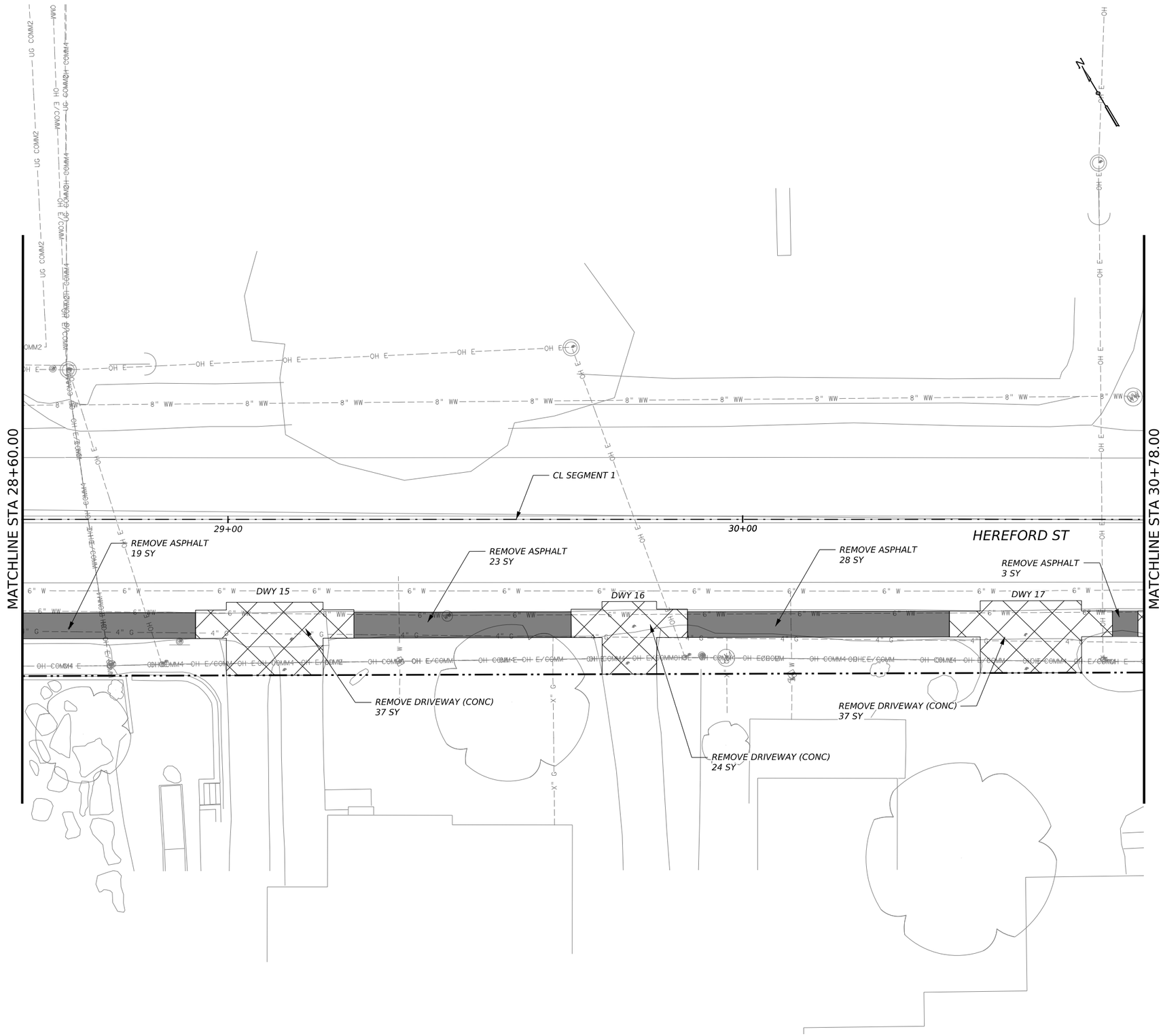

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
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PROFESSIONAL ENGINEER

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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
HEREFORD ST
STA 28+60.00 TO STA 30+78.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		54

DATE: 4/12/2024 3:09:18 PM
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100% PLANS SUBMITTAL

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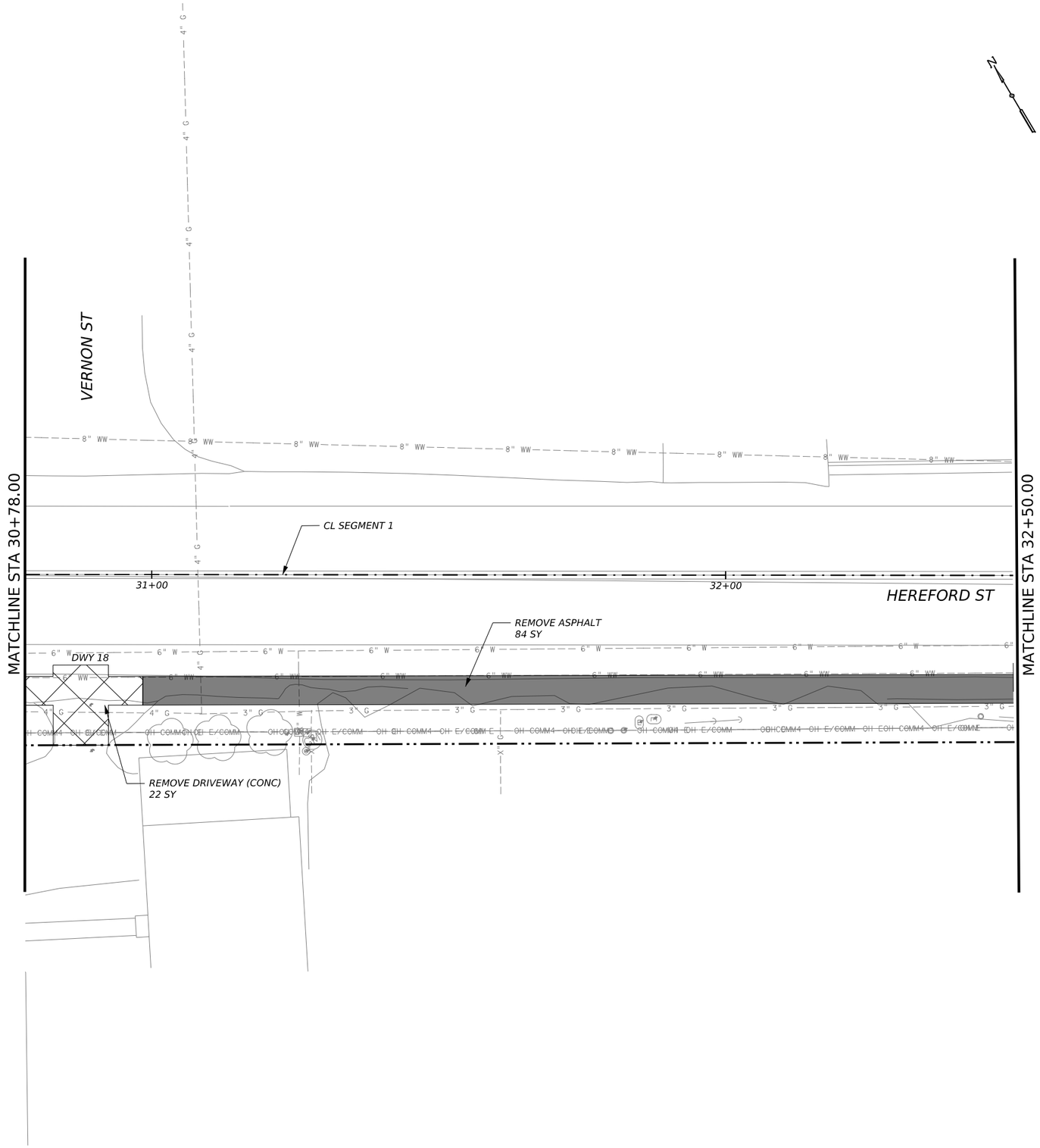

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

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Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
HEREFORD ST
STA 30+78.00 TO STA 32+50.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		55

DATE: 4/12/2024 3:09:33 PM
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100% PLANS SUBMITTAL

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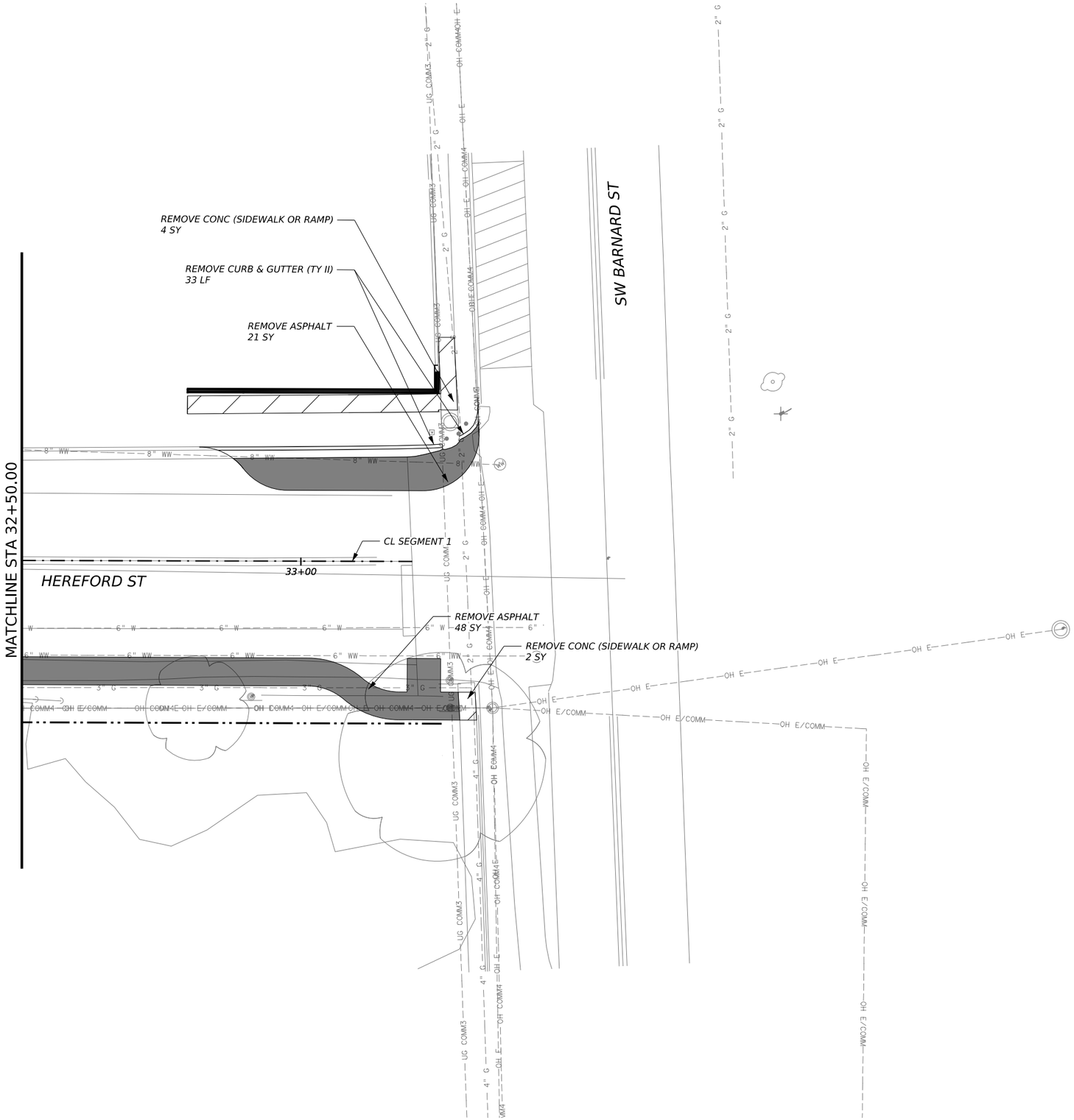

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
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04-15-2024

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HDR Engineering, Inc
Firm Registration No. F-754
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
HEREFORD ST
STA 32+50.00 TO END SEG 1

SHEET 16 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		56

DATE: 4/12/2024 3:09:42 PM
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100% PLANS SUBMITTAL

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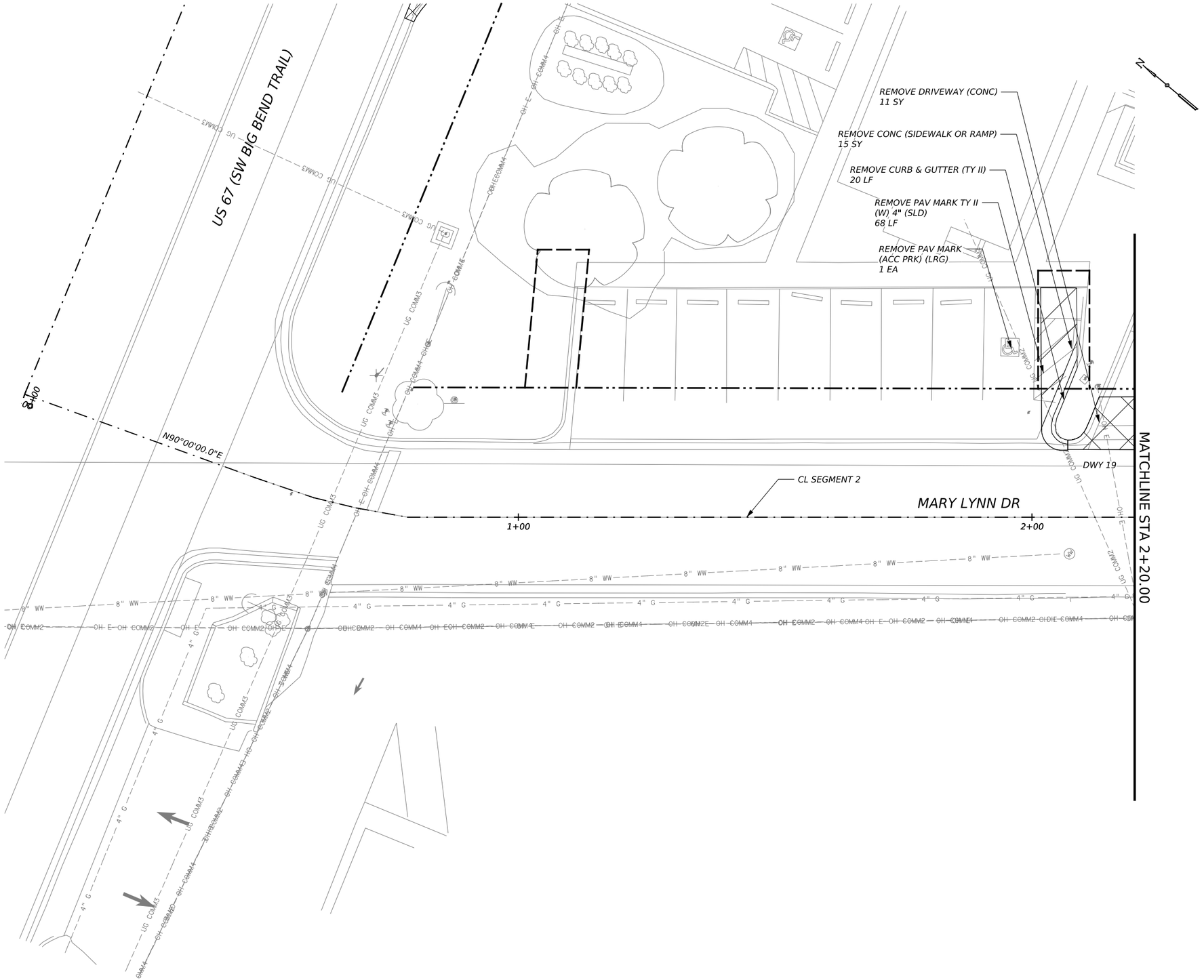

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

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130723
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PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
MARY LYNN
BEGIN SEG 2 TO STA 2+20.00

SHEET 17 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		57

DATE: 4/12/2024 3:09:52 PM
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100% PLANS SUBMITTAL

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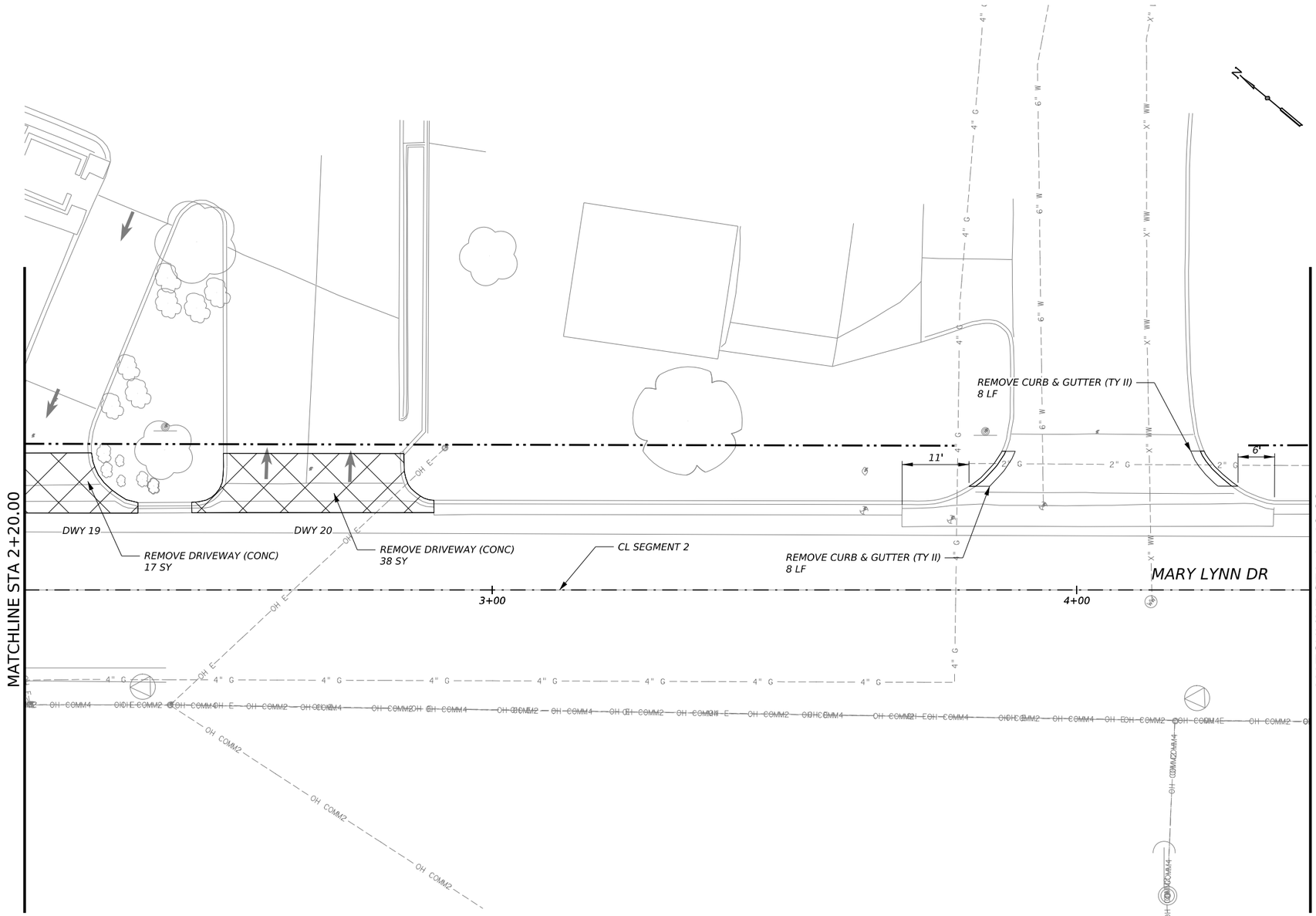

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
MARY LYNN
STA 2+20.00 TO STA 4+40.00

SHEET 18 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		58

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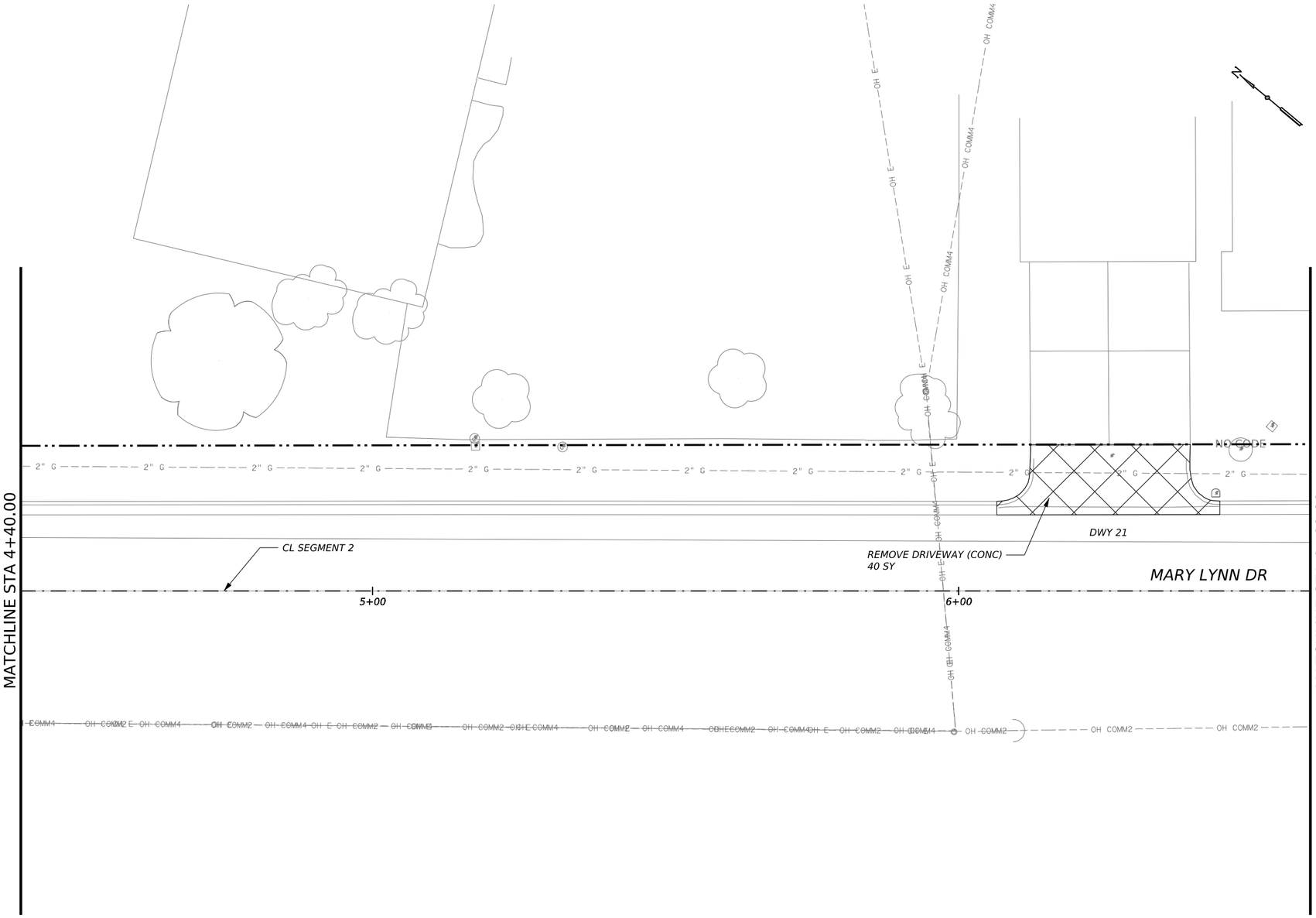

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
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PROFESSIONAL ENGINEER

HDR Engineering, Inc
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710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

REMOVAL PLAN
MARY LYNN DR
STA 4+40.00 TO STA 6+60.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		59

DATE: 4/12/2024 3:10:10 PM
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100% PLANS SUBMITTAL

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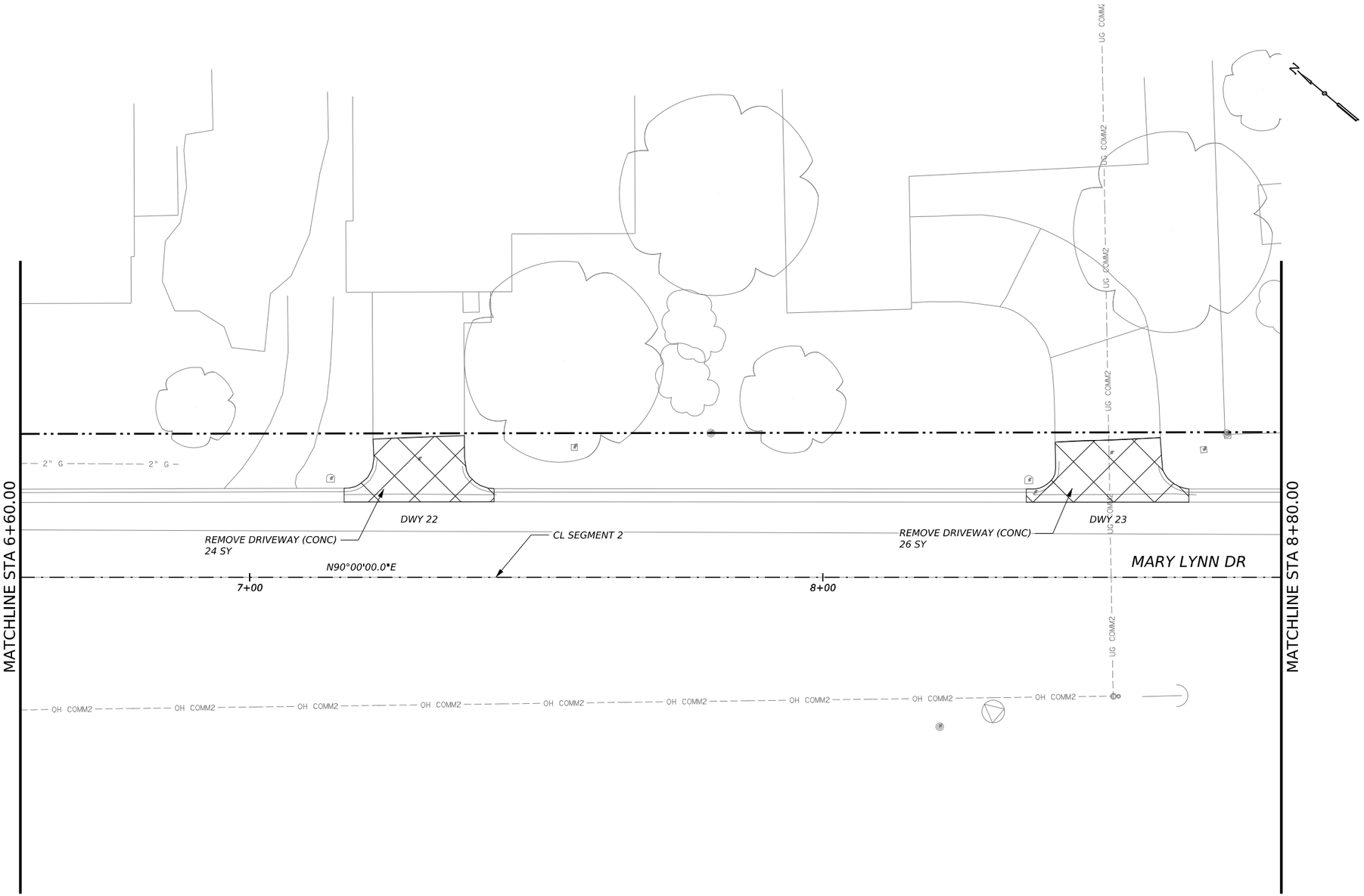

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
MARY LYNN DR
STA 6+60.00 TO STA 8+80.00

SHEET 20 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		60

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100% PLANS SUBMITTAL

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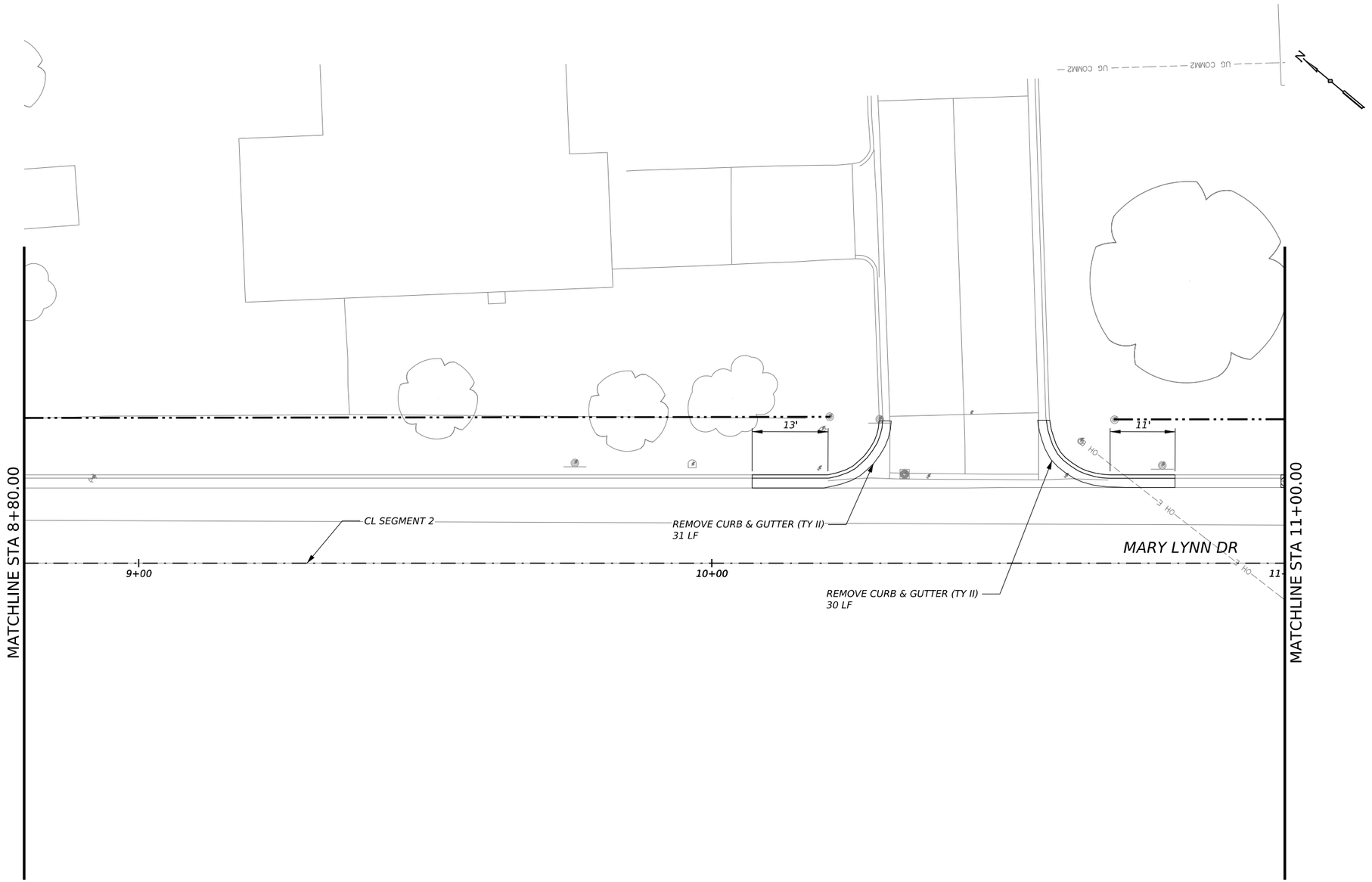

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
MARY LYNN DR
STA 8+80.00 TO STA 11+00.00

SHEET 21 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		61

DATE: 4/12/2024 3:10:28 PM
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100% PLANS SUBMITTAL

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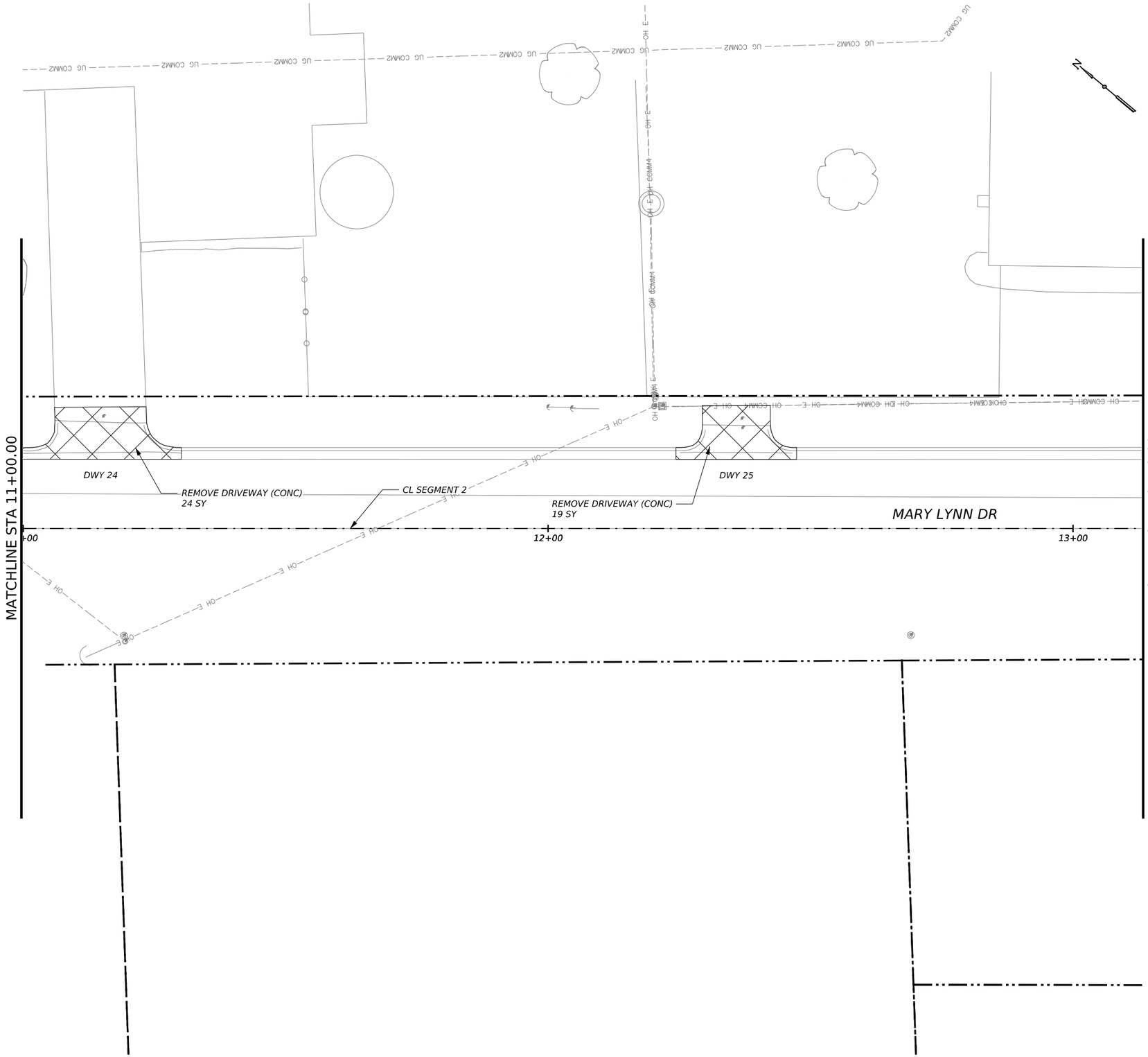

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

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SAFE ROUTES

REMOVAL PLAN
MARY LYNN DR
STA 11+00.00 TO STA 13+13.00

SHEET 22 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		62

DATE: 4/12/2024 3:10:38 PM
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100% PLANS SUBMITTAL

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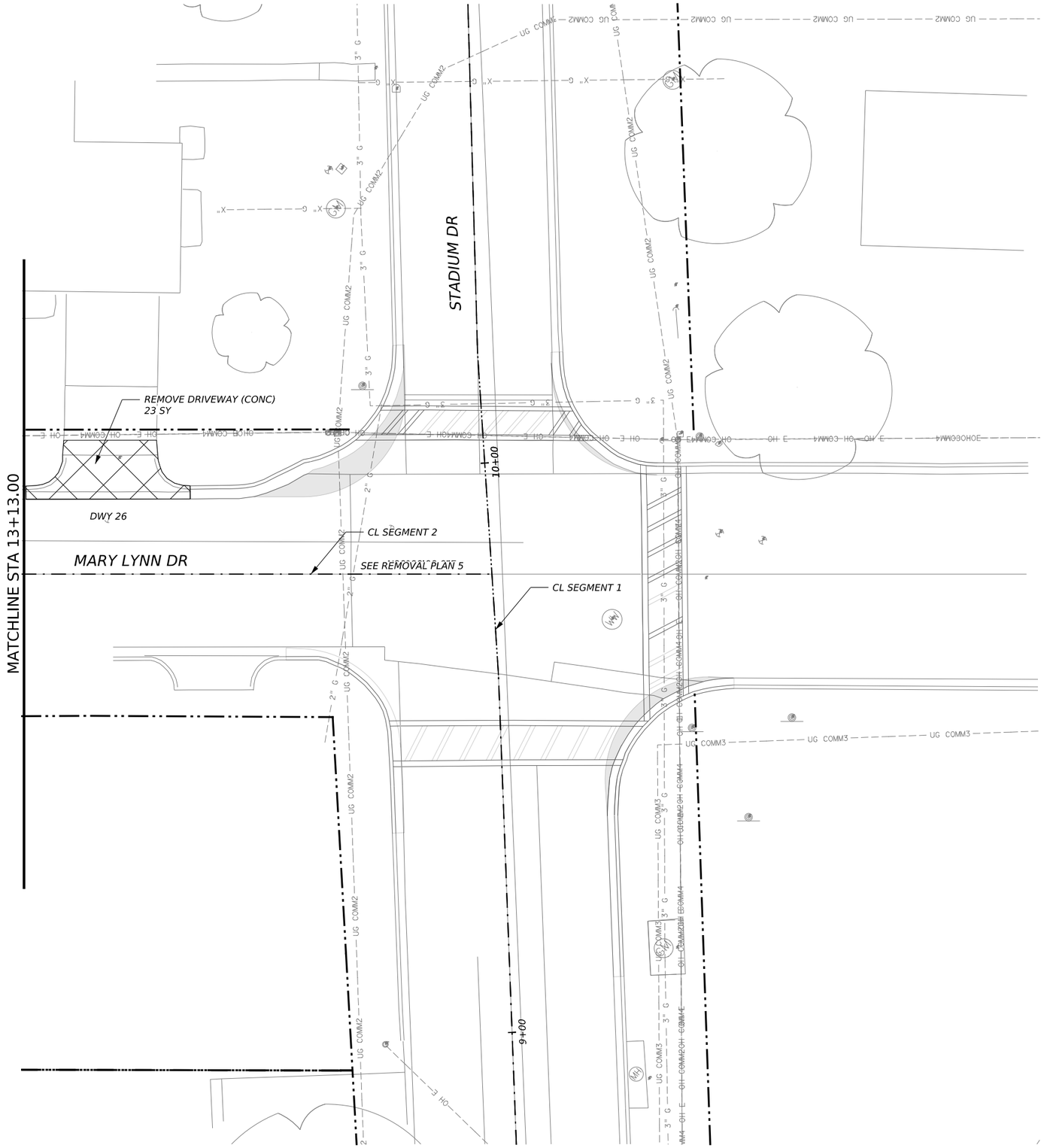

LEGEND

- APPARENT ROW
- CENTERLINE
- REMOVE DRIVEWAY
- REMOVE SIDEWALK/RAMP
- REMOVE ASPHALT
- TEMPORARY CONSTRUCTION LICENSE AREA

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

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PROFESSIONAL ENGINEER

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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
MARY LYNN DR
STA 13+13.00 TO END SEG 2

SHEET 23 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		63

DATE: 4/12/2024 3:10:47 PM
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100% PLANS SUBMITTAL

DW:	RW	CK:	RW
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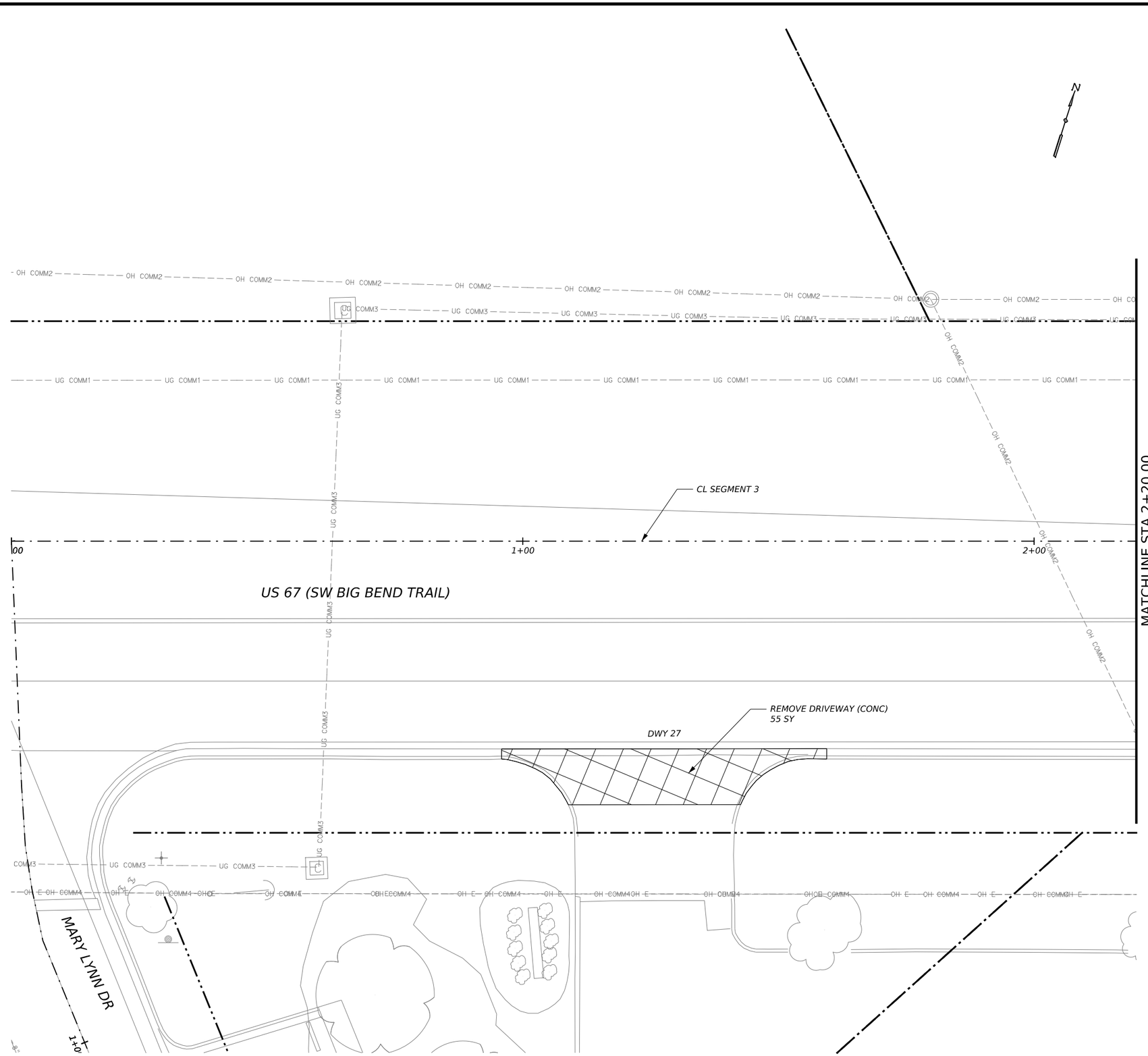

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

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130723
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PROFESSIONAL
ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
BEGIN SEG 3 TO STA 2+20.00

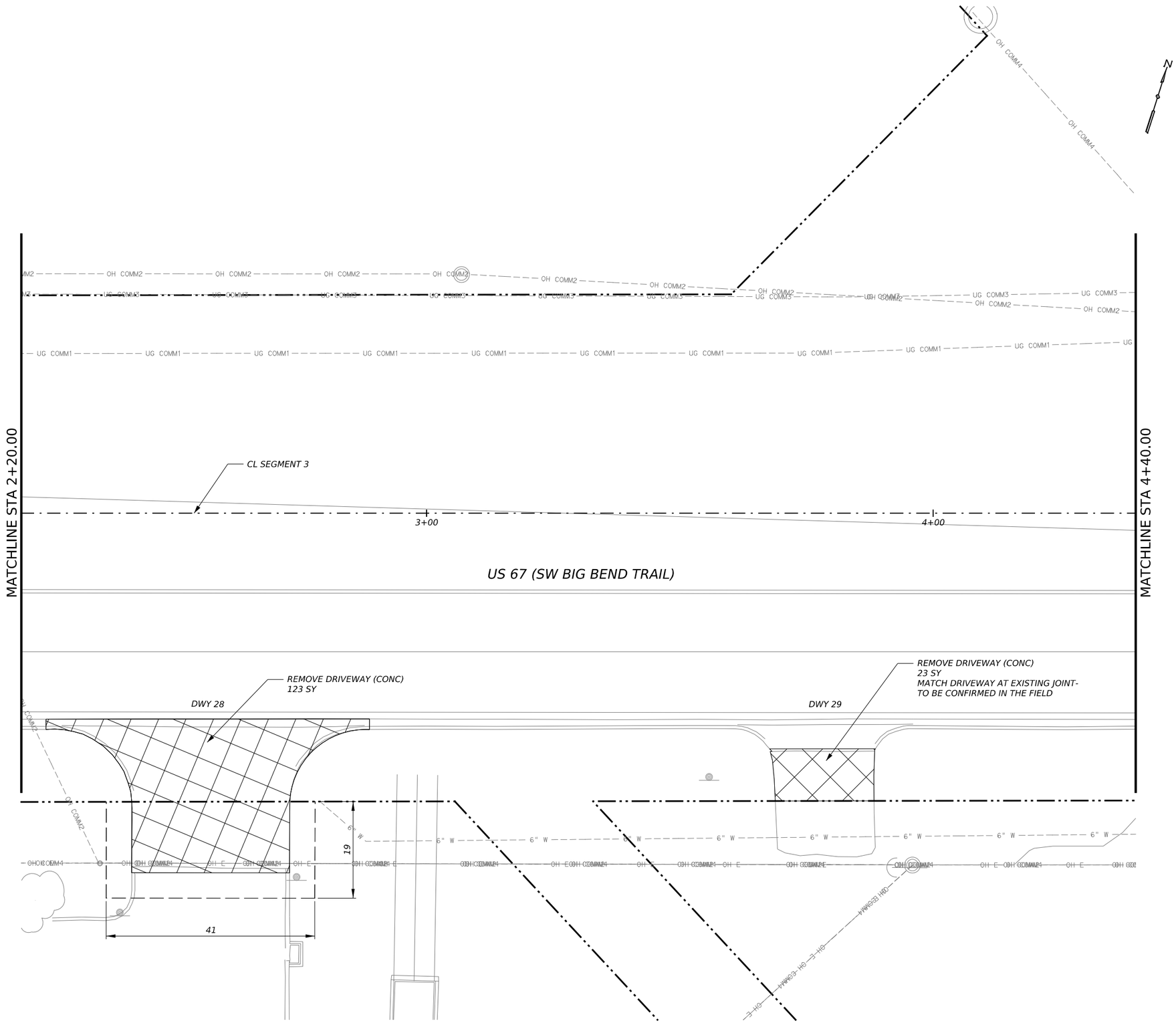
SHEET 24 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		64

DATE: 4/12/2024 3:10:56 PM
FILE: GR SRTS RMV 24.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:	DW:
RW	DR	RD	RW	



LEGEND

- APPARENT ROW
- CENTERLINE
- REMOVE DRIVEWAY
- REMOVE SIDEWALK/RAMP
- REMOVE ASPHALT
- TEMPORARY CONSTRUCTION LICENSE AREA

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3. THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.
4. COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

REMOVAL PLAN
US 67
STA 2+20.00 TO STA 4+40.00

SHEET 25 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		65

DATE: 4/12/2024 3:11:05 PM
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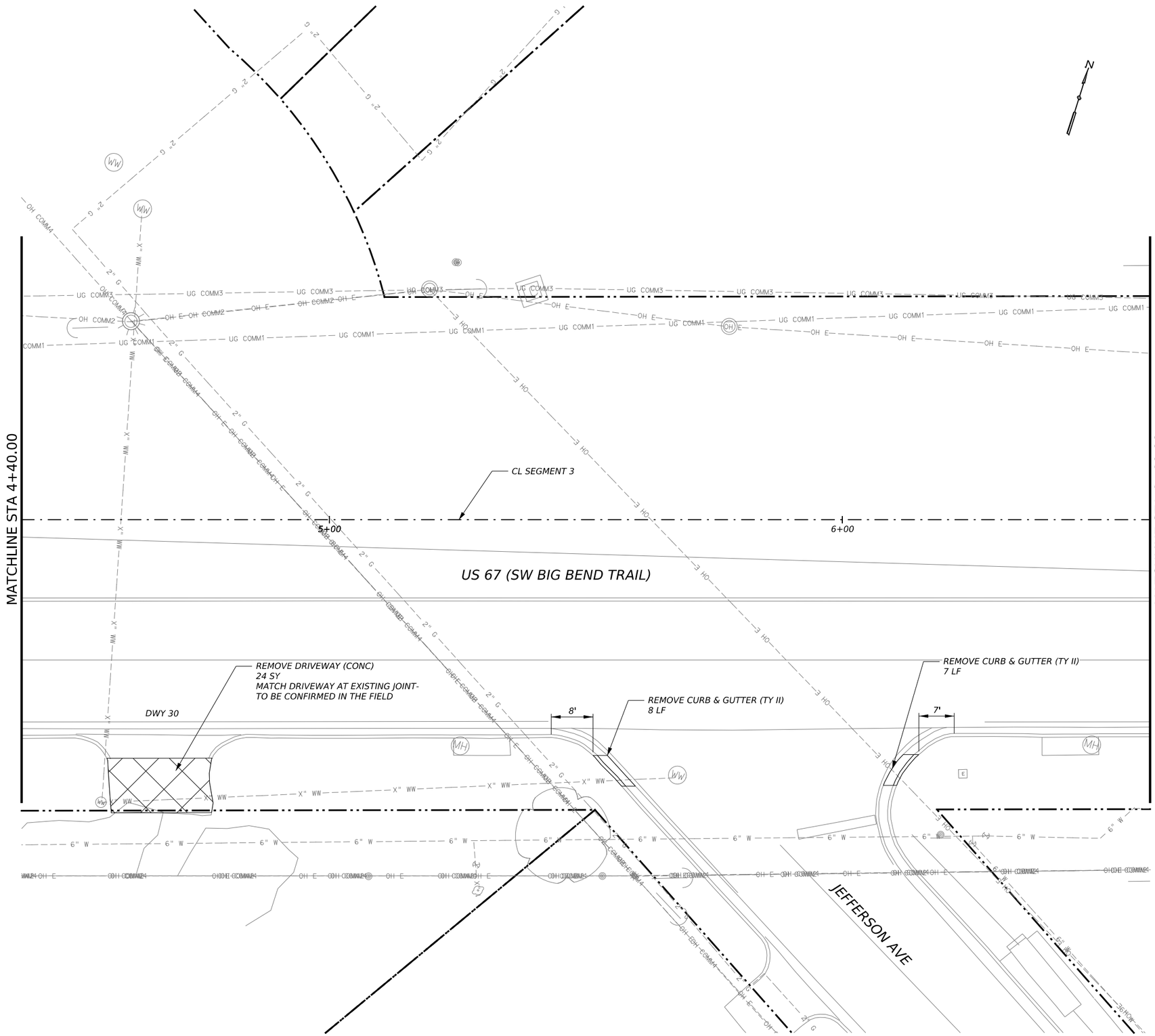
100% PLANS SUBMITTAL

DW:	RW	Cк:	DR	DW:	RD	Cк:	RW



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

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4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
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PROFESSIONAL ENGINEER

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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 4+40.00 TO STA 6+60.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		66

DATE: 4/12/2024 3:11:13 PM
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100% PLANS SUBMITTAL

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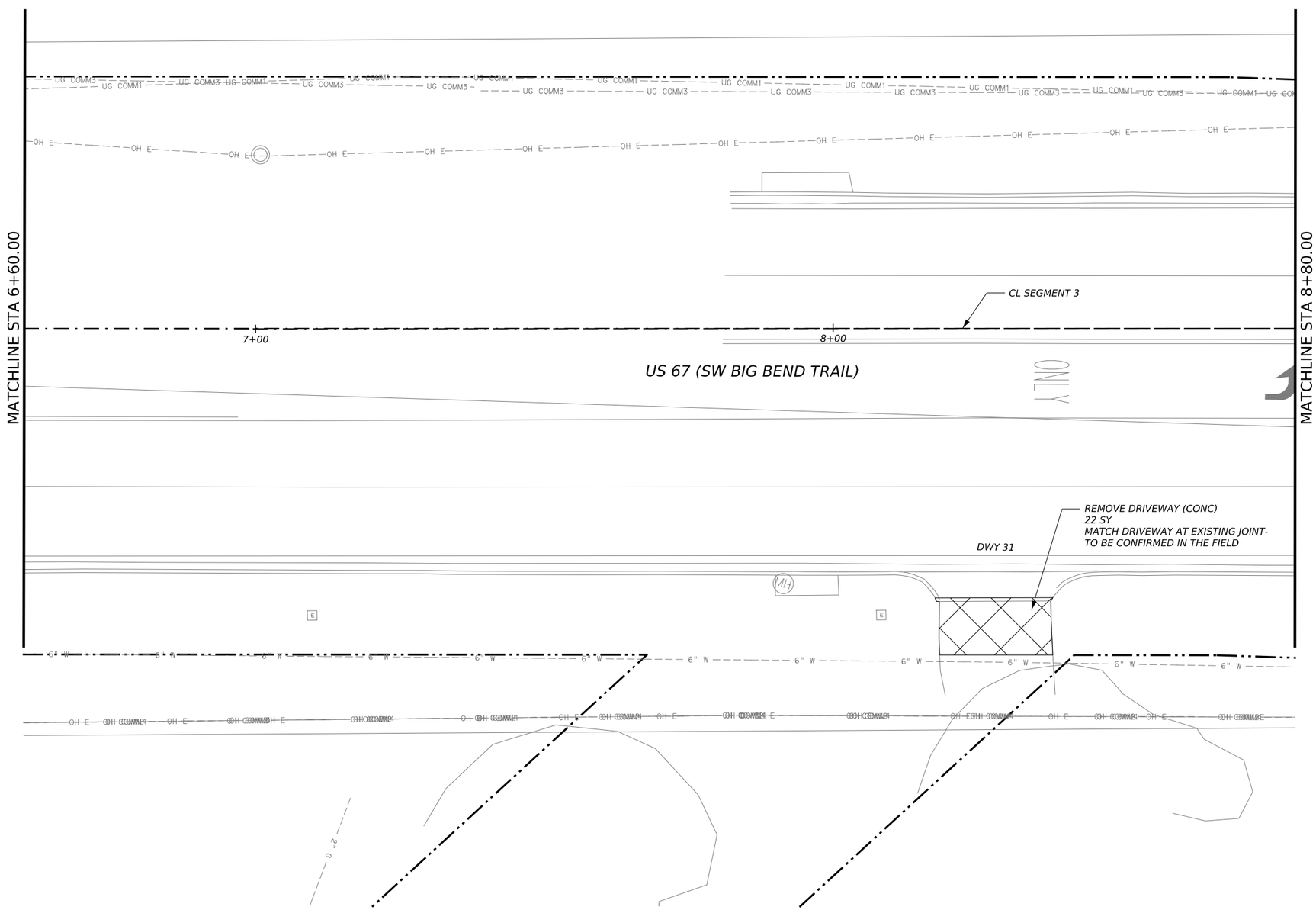

N

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

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Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 6+60.00 TO STA 8+80.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		67

DATE: 4/12/2024 3:11:22 PM
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100% PLANS SUBMITTAL

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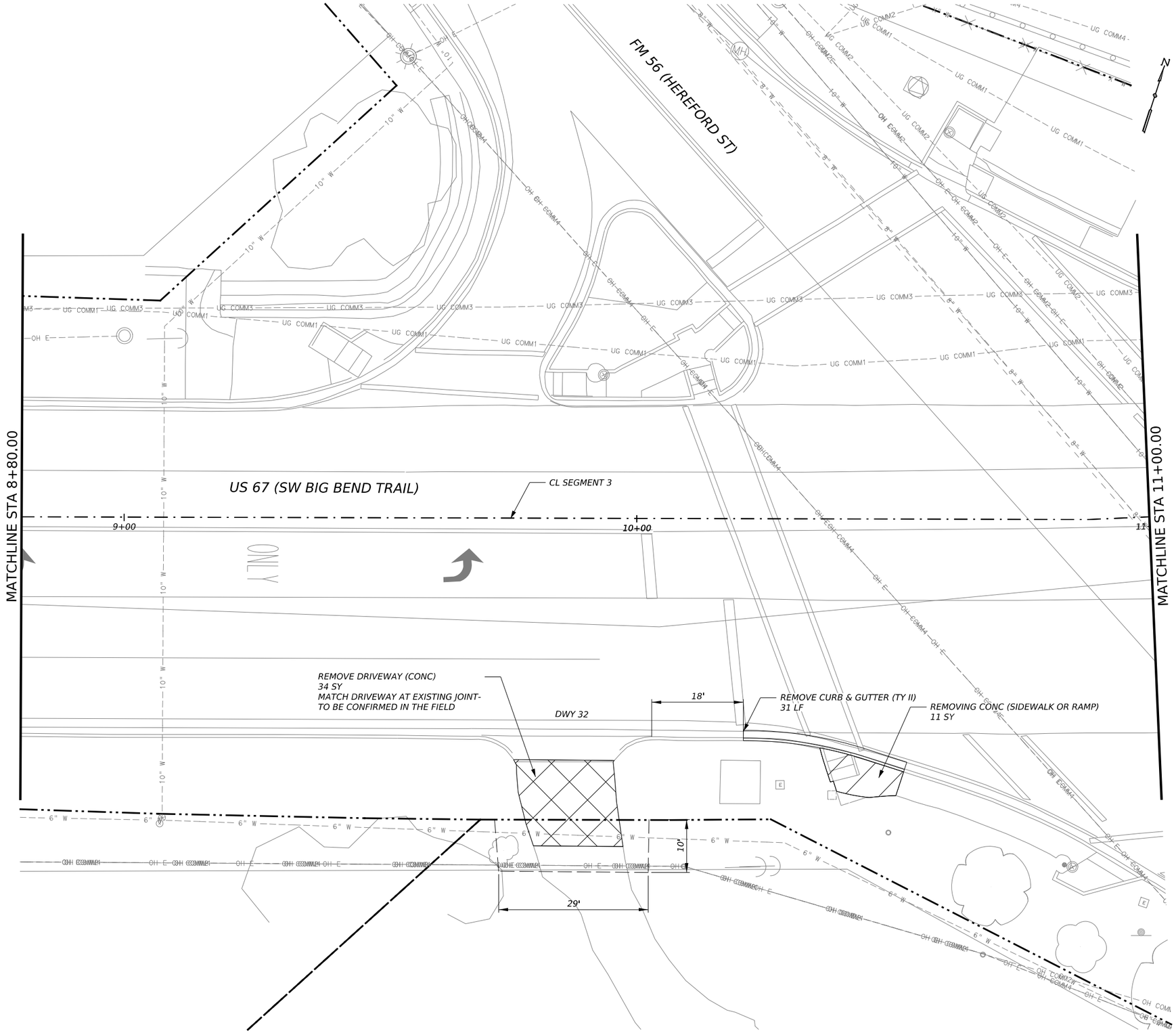

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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SCALE IN FEET
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NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 8+80.00 TO STA 11+00.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		68

DATE: 4/12/2024 3:11:31 PM
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100% PLANS SUBMITTAL

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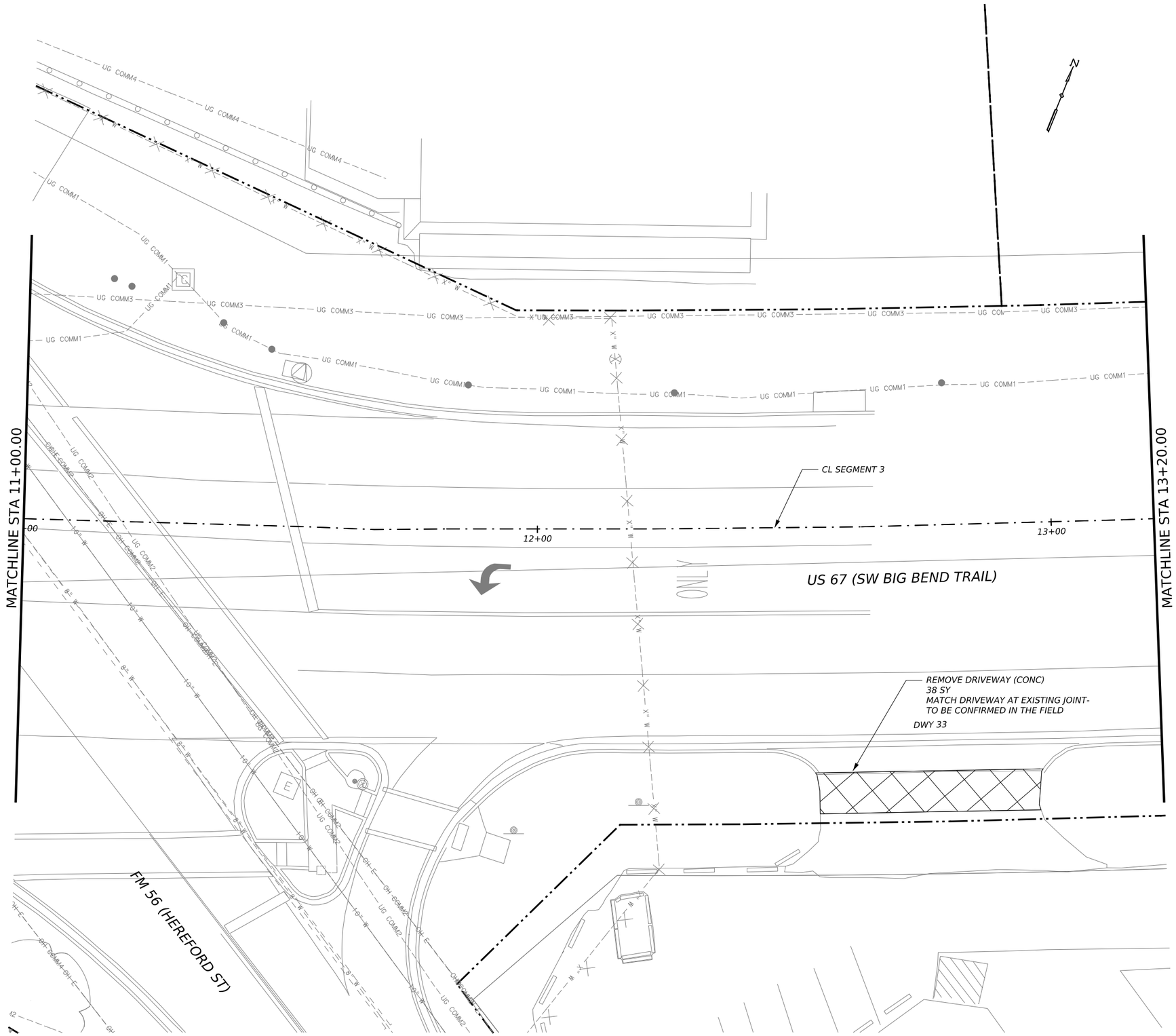

LEGEND

- APPARENT ROW
- CENTERLINE
- REMOVE DRIVEWAY
- REMOVE SIDEWALK/RAMP
- REMOVE ASPHALT
- TEMPORARY CONSTRUCTION LICENSE AREA

NOTES:

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0 10 20 30 40

SCALE IN FEET
1"=20'

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STATE OF TEXAS
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Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 11+00.00 TO STA 13+20.00

SHEET 29 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		69

DATE: 4/12/2024 3:11:41 PM
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100% PLANS SUBMITTAL

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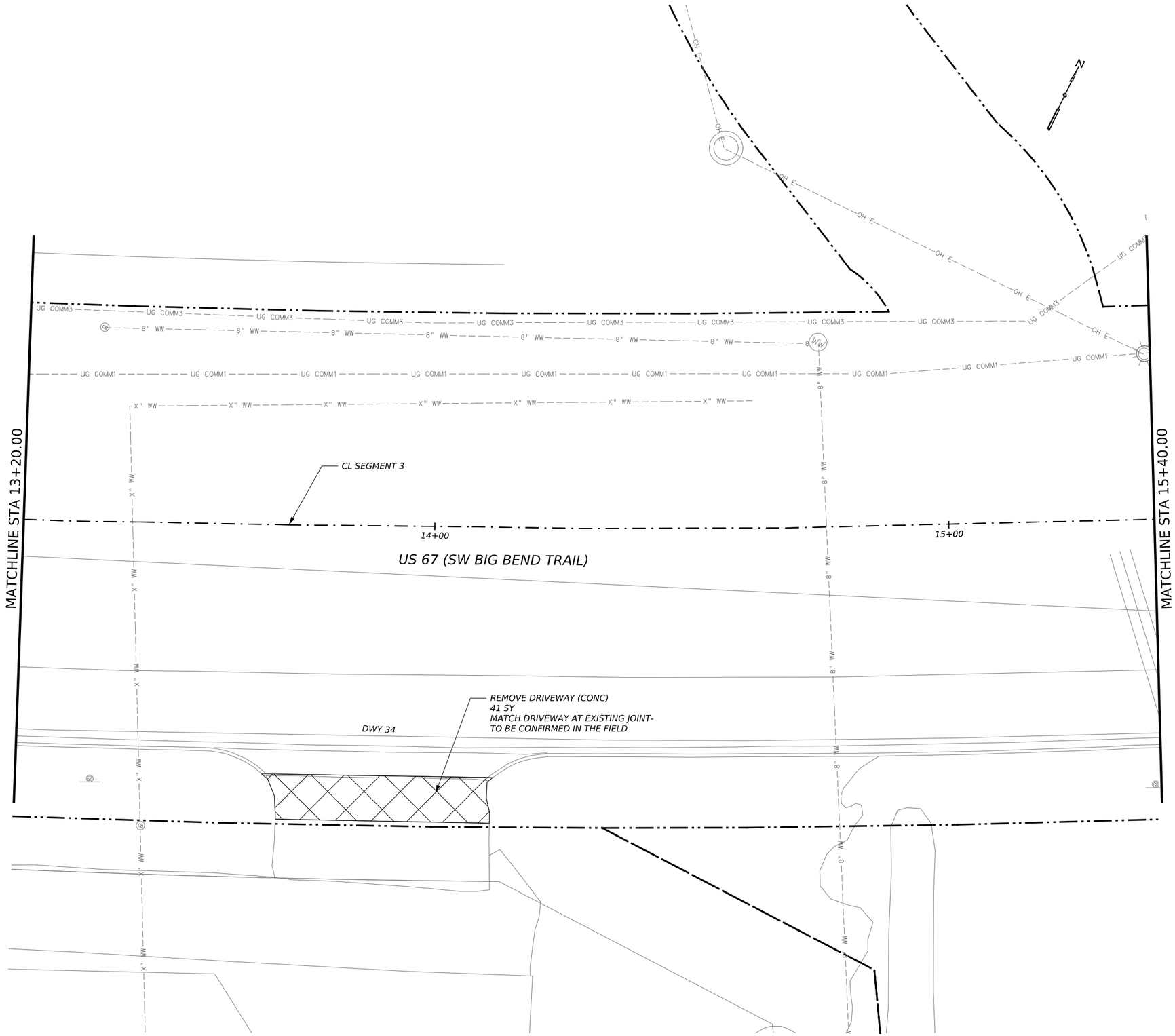
		DR	



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
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NO.	DATE	REVISION	APPR BY

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SAFE ROUTES

REMOVAL PLAN
US 67
STA 13+20.00 TO STA 15+40.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		70

DATE: 4/12/2024 3:11:50 PM
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100% PLANS SUBMITTAL

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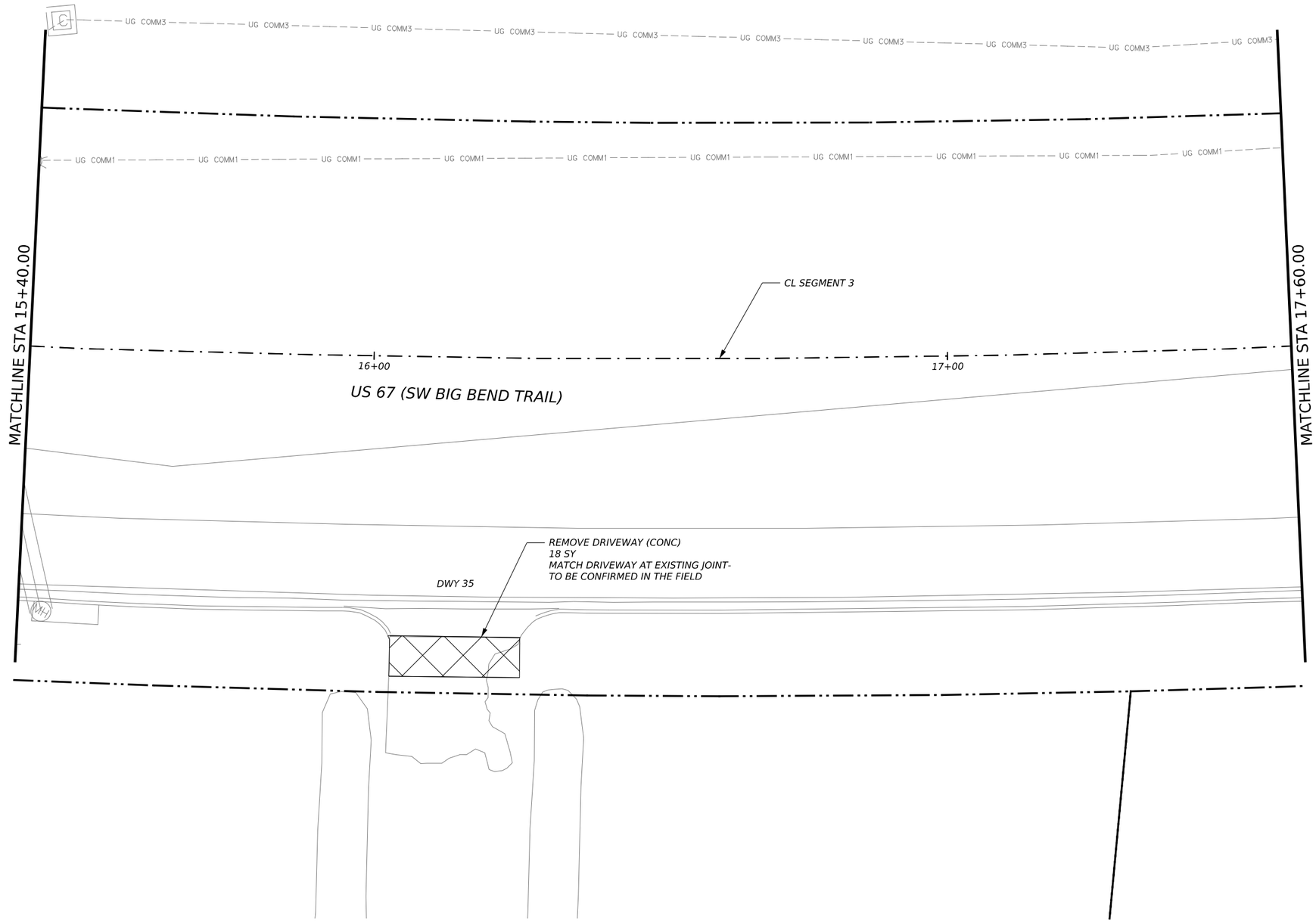
RW		DR		RD	RW



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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SCALE IN FEET
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04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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Round Rock, Texas 78681

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SAFE ROUTES

REMOVAL PLAN
US 67
STA 15+40.00 TO STA 17+60.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		71

DATE: 4/12/2024 3:12:09 PM
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100% PLANS SUBMITTAL

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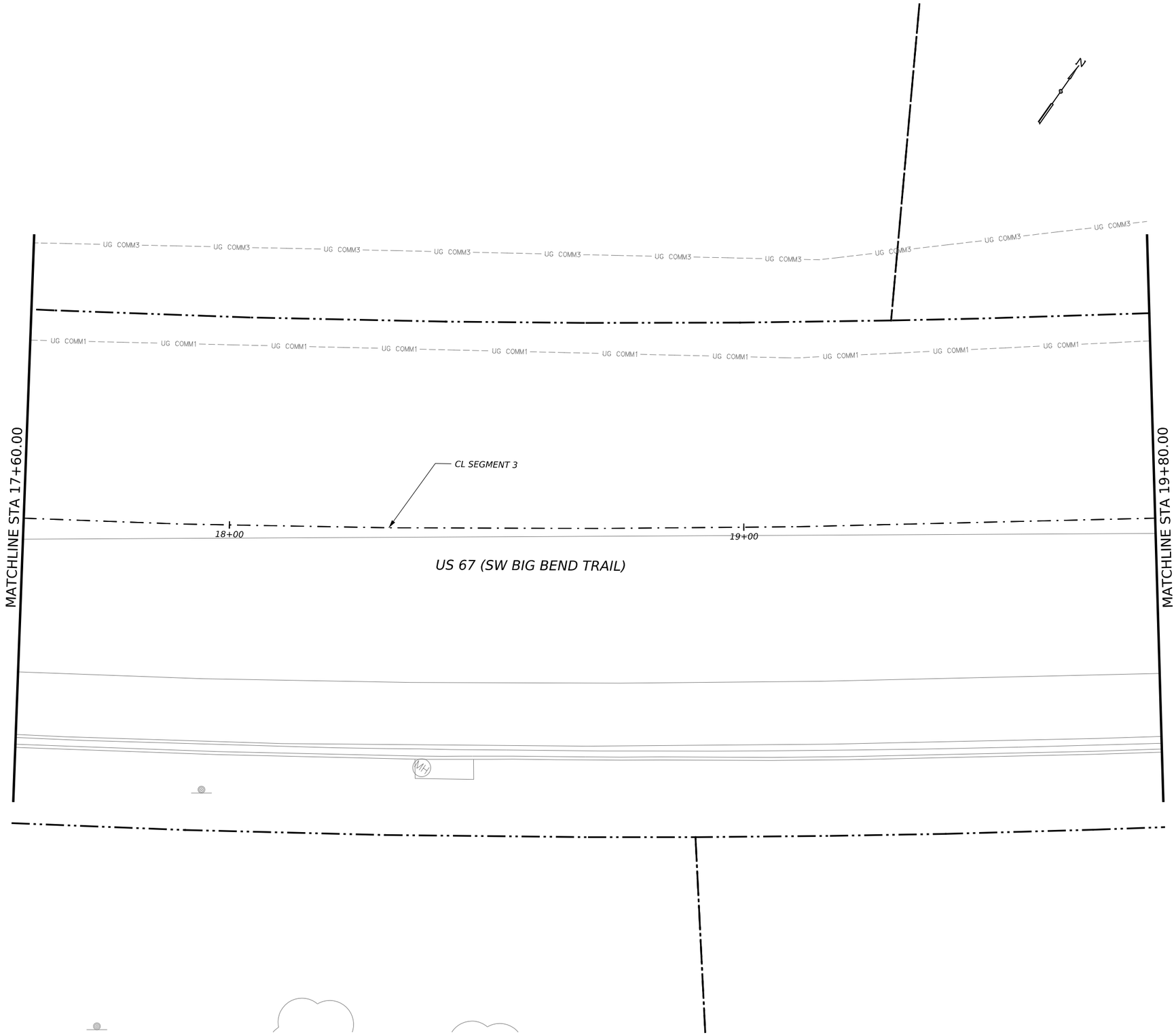

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
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PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 17+60.00 TO STA 19+80.00

SHEET 32 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		72

DATE: 4/12/2024 3:12:18 PM
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100% PLANS SUBMITTAL

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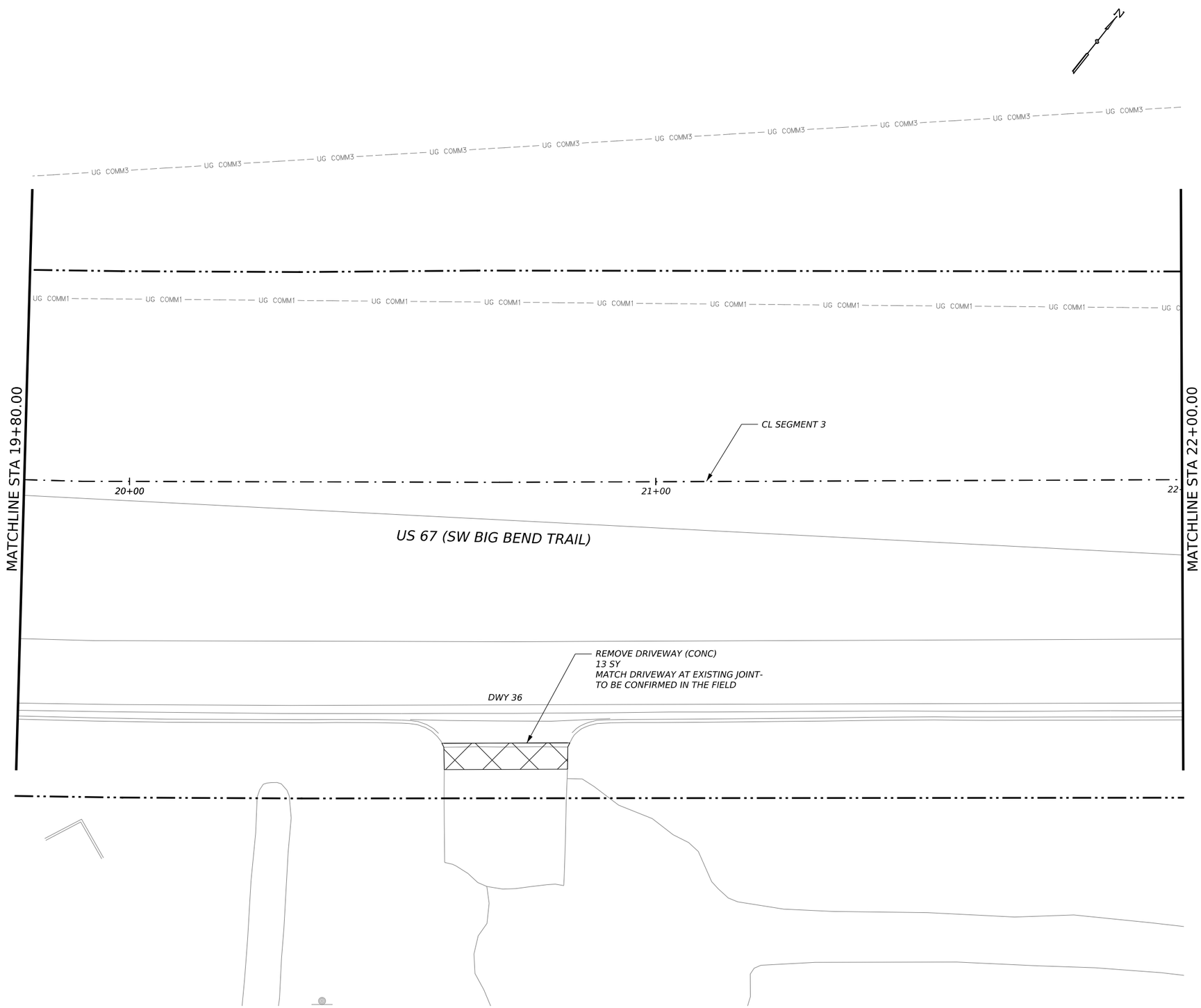

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
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PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 19+80.00 TO STA 22+00.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		73

DATE: 4/12/2024 3:12:27 PM
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100% PLANS SUBMITTAL

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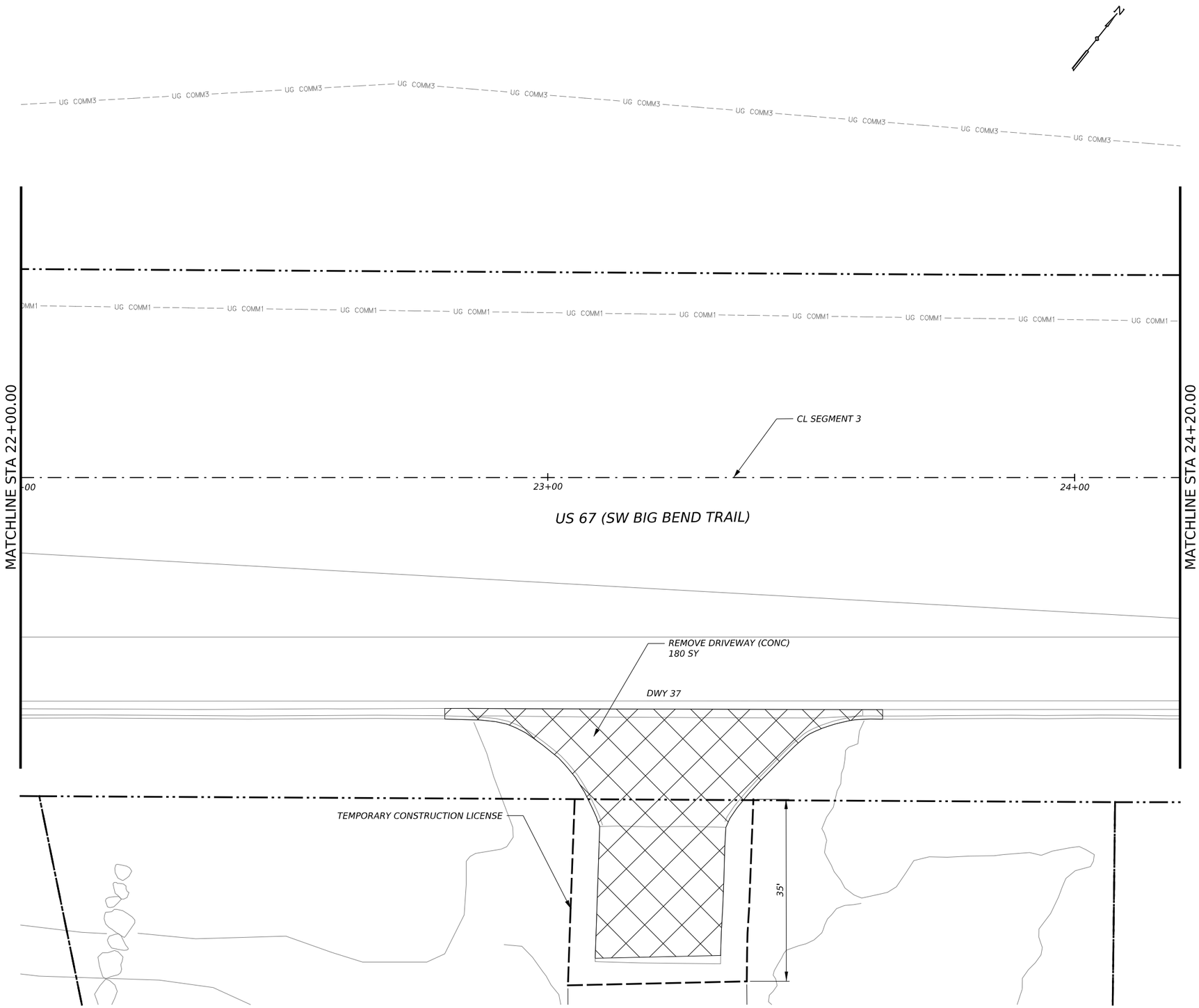

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 22+00.00 TO STA 24+20.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		74

DATE: 4/12/2024 3:12:35 PM
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100% PLANS SUBMITTAL

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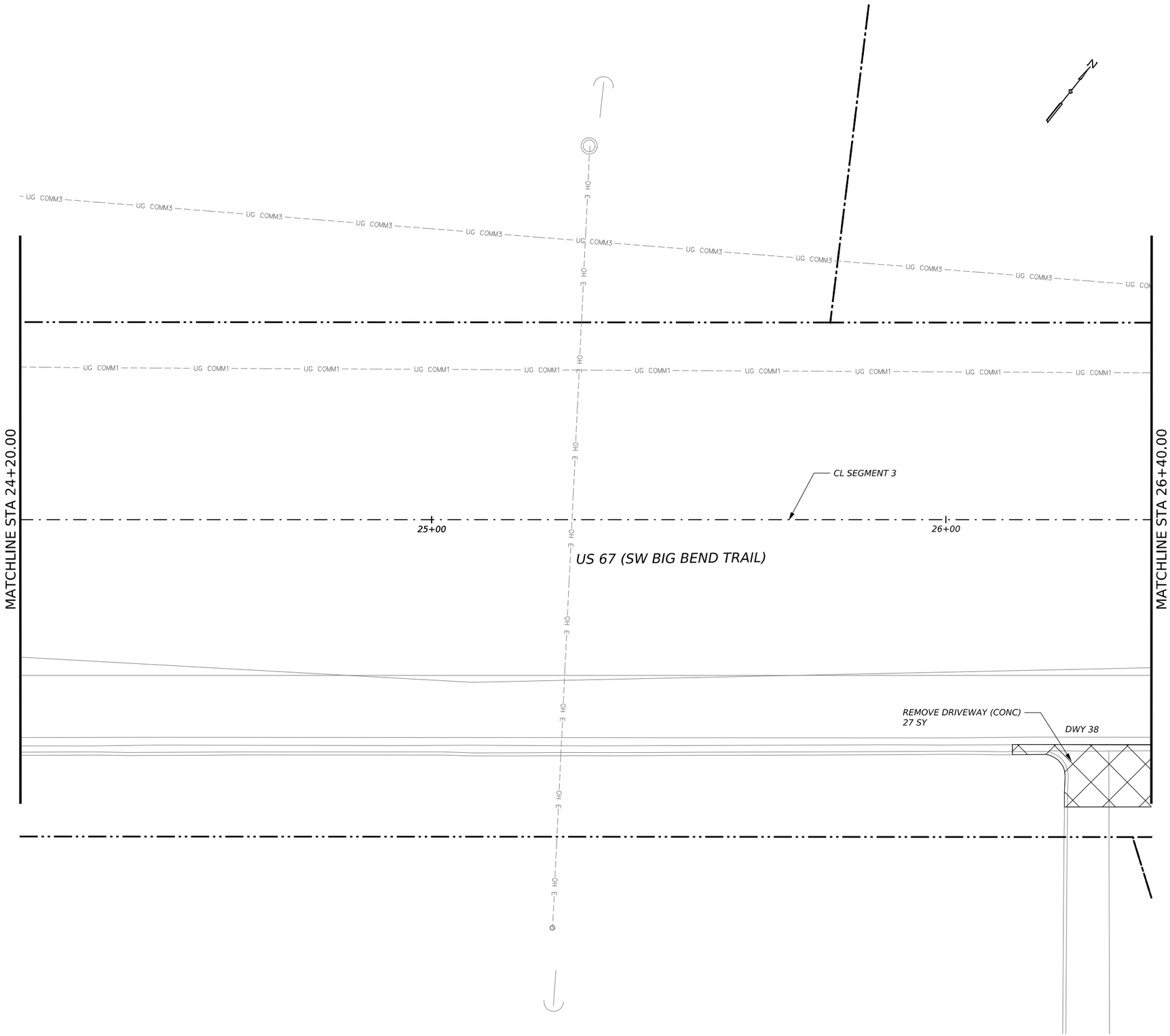

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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SCALE IN FEET
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 24+20.00 TO STA 26+40.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		75

DATE: 4/12/2024 3:12:44 PM
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100% PLANS SUBMITTAL

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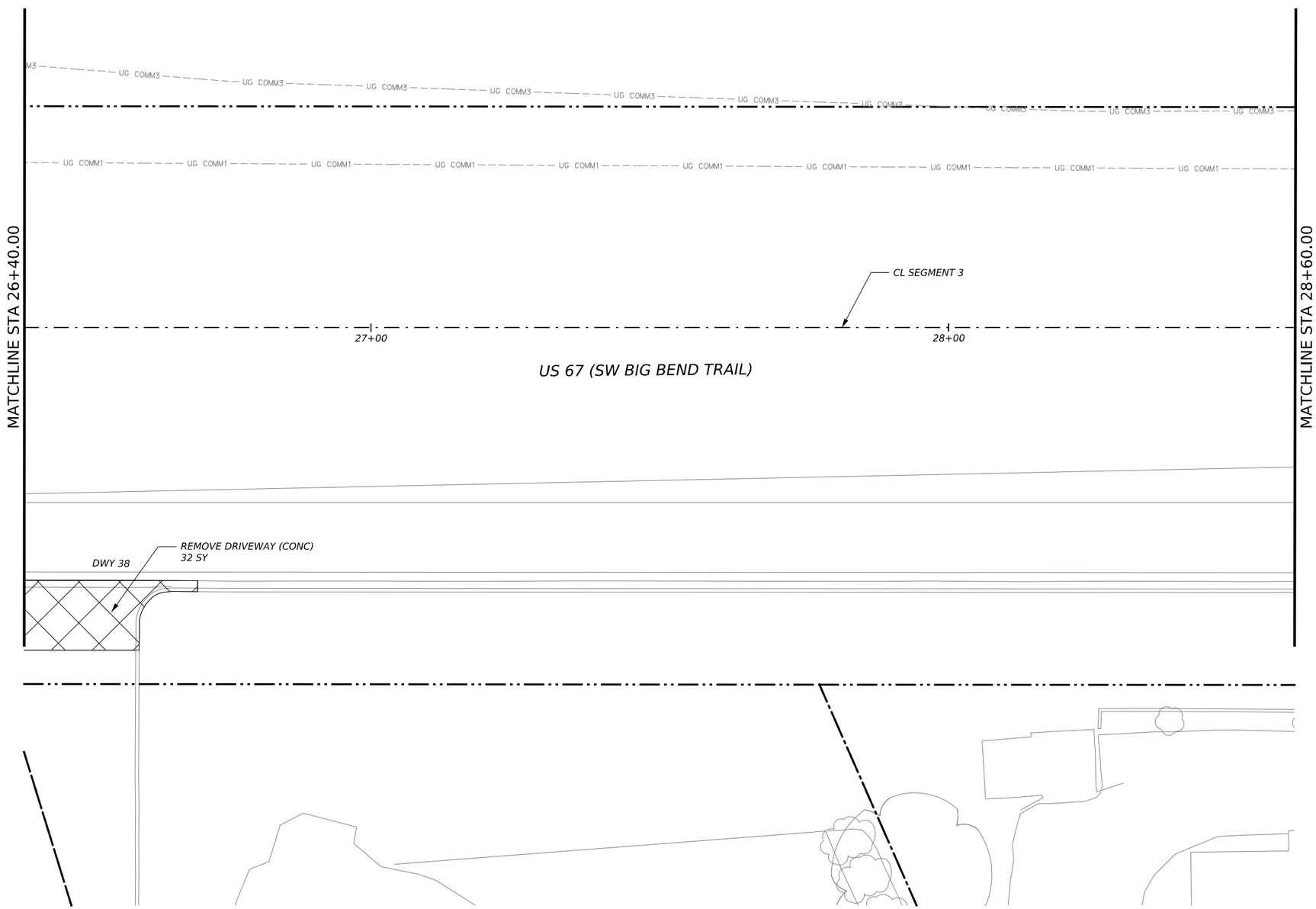

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

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Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 26+40.00 TO STA 28+60.00

SHEET 36 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		76

DATE: 4/12/2024 3:12:53 PM
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100% PLANS SUBMITTAL

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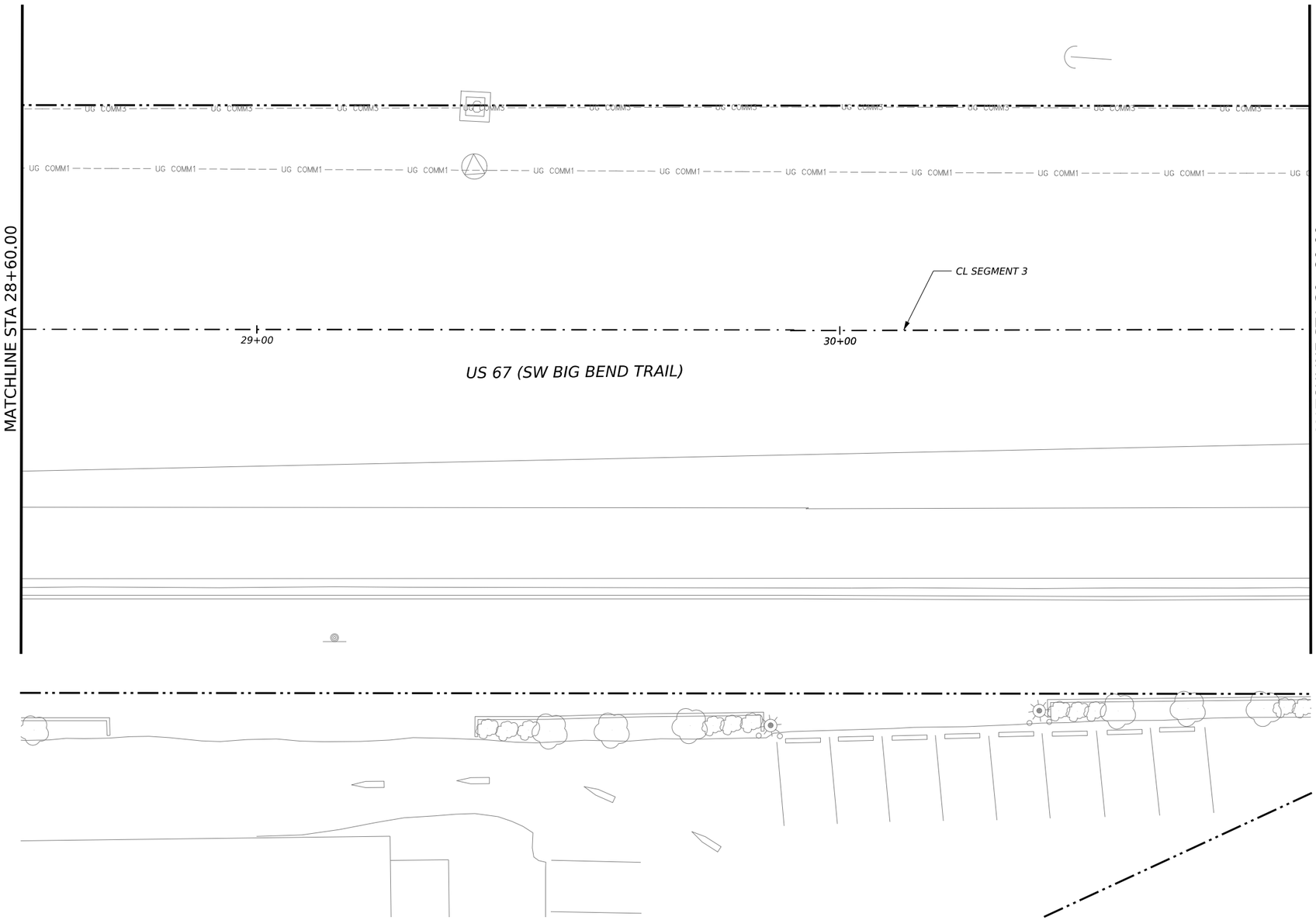

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

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0 10 20 30 40

SCALE IN FEET
1"=20'

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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 28+60.00 TO STA 30+80.00

SHEET 37 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		77

DATE: 4/12/2024 3:13:02 PM
FILE: GR_SRTS_RMV_37.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	RW	RD	RW
	DR		

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 30+80.00 TO STA 33+00.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		78

DATE: 4/12/2024 3:13:10 PM
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100% PLANS SUBMITTAL

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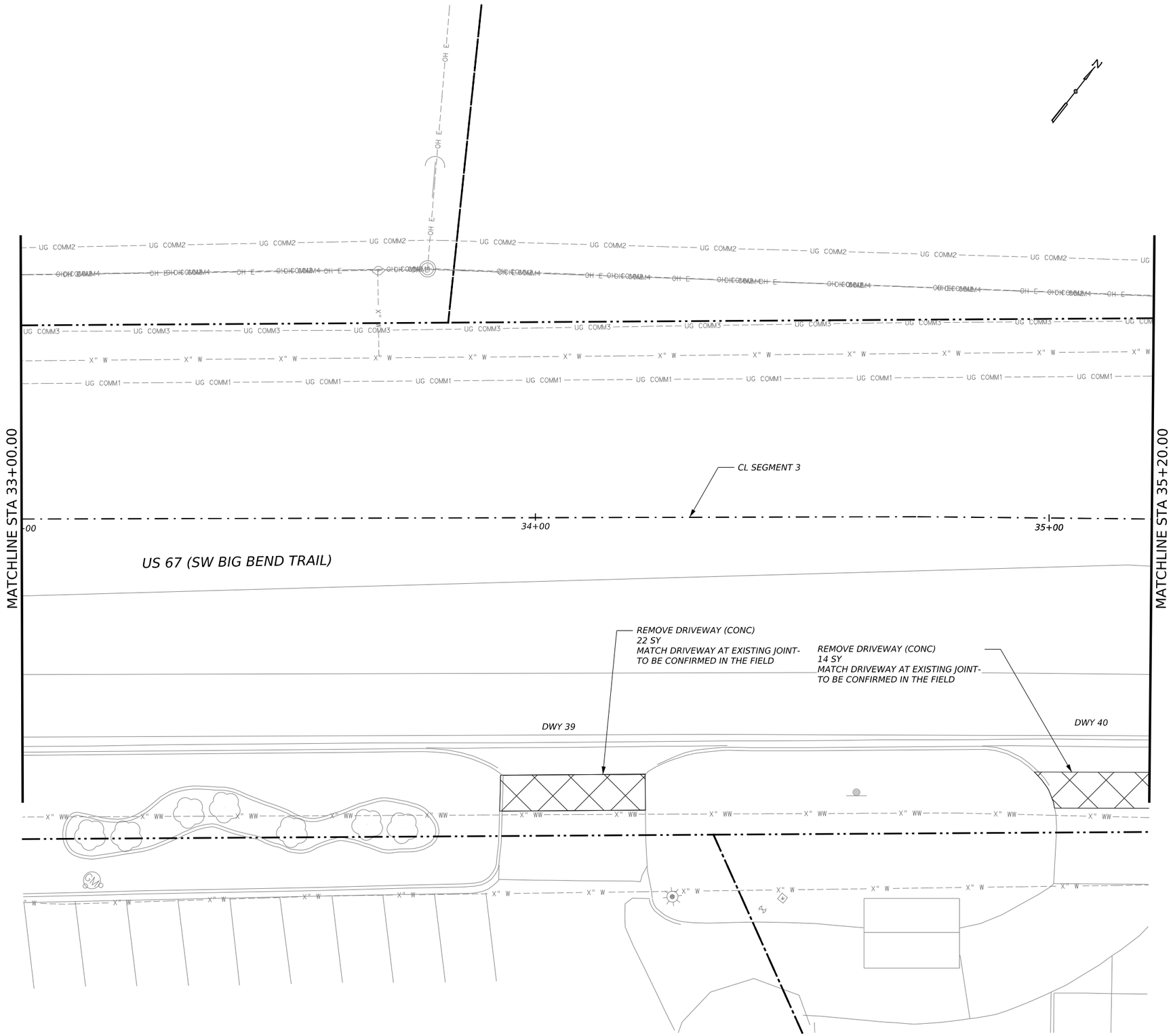
DW:	DR	CK:	RD



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 33+00.00 TO STA 35+20.00

SHEET 39 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		79

DATE: 4/12/2024 3:13:19 PM
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100% PLANS SUBMITTAL

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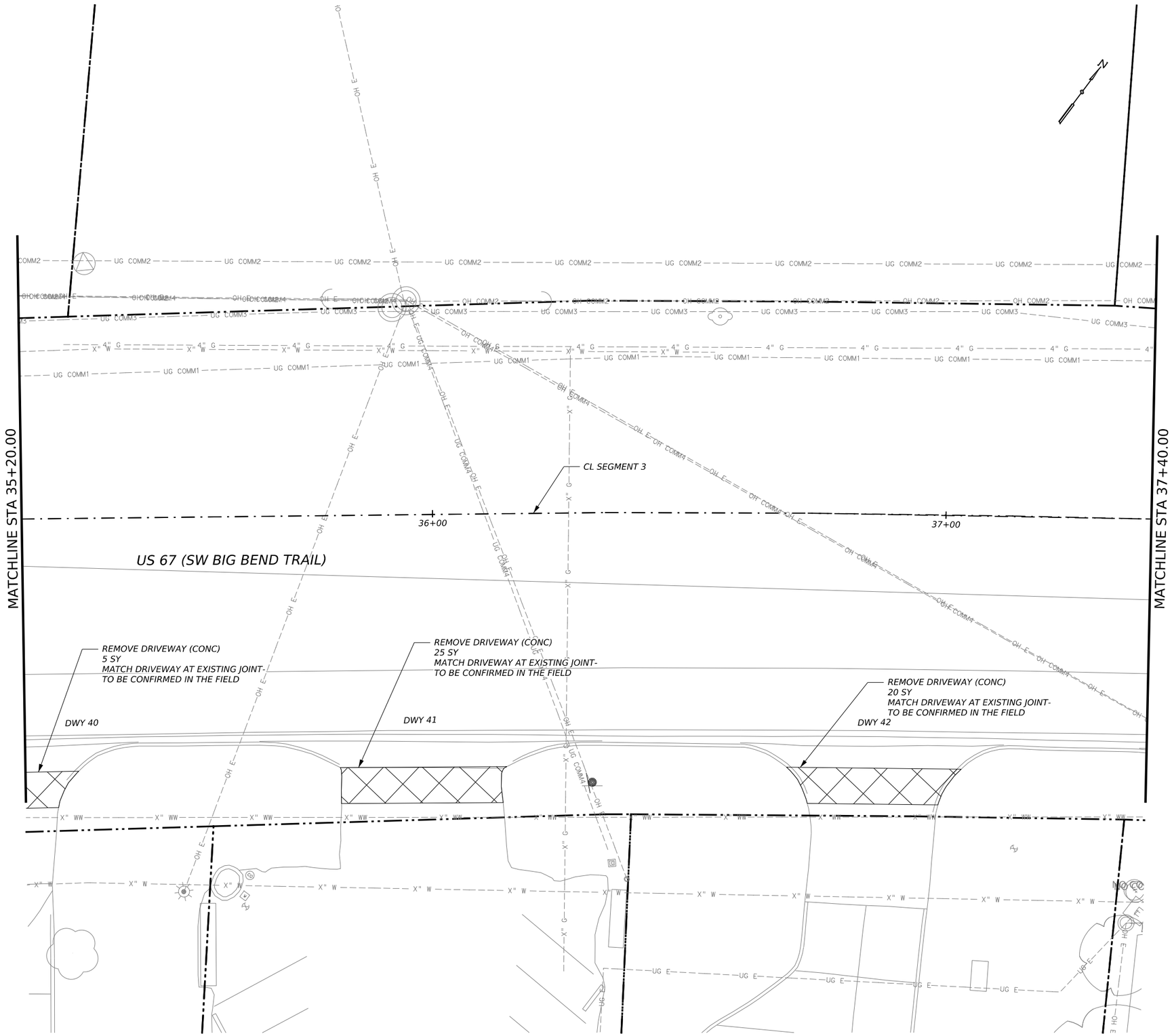

LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 35+20.00 TO STA 37+40.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		80

DATE: 4/12/2024 3:13:29 PM
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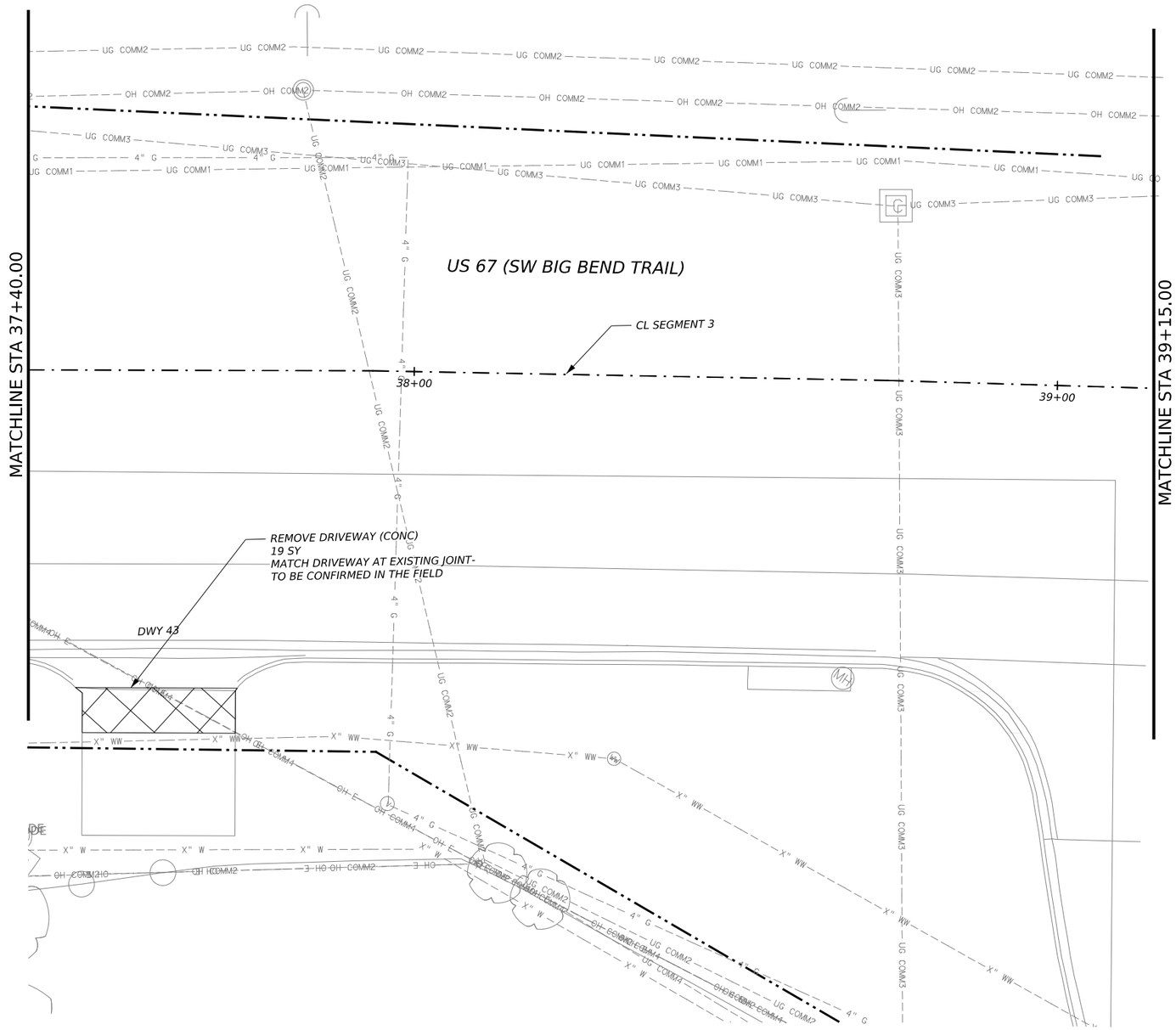
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	RW	DR	RD



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
US 67
STA 37+40.00 TO STA 39+15.00

SHEET 41 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		81

DATE: 4/12/2024 3:13:38 PM
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100% PLANS SUBMITTAL

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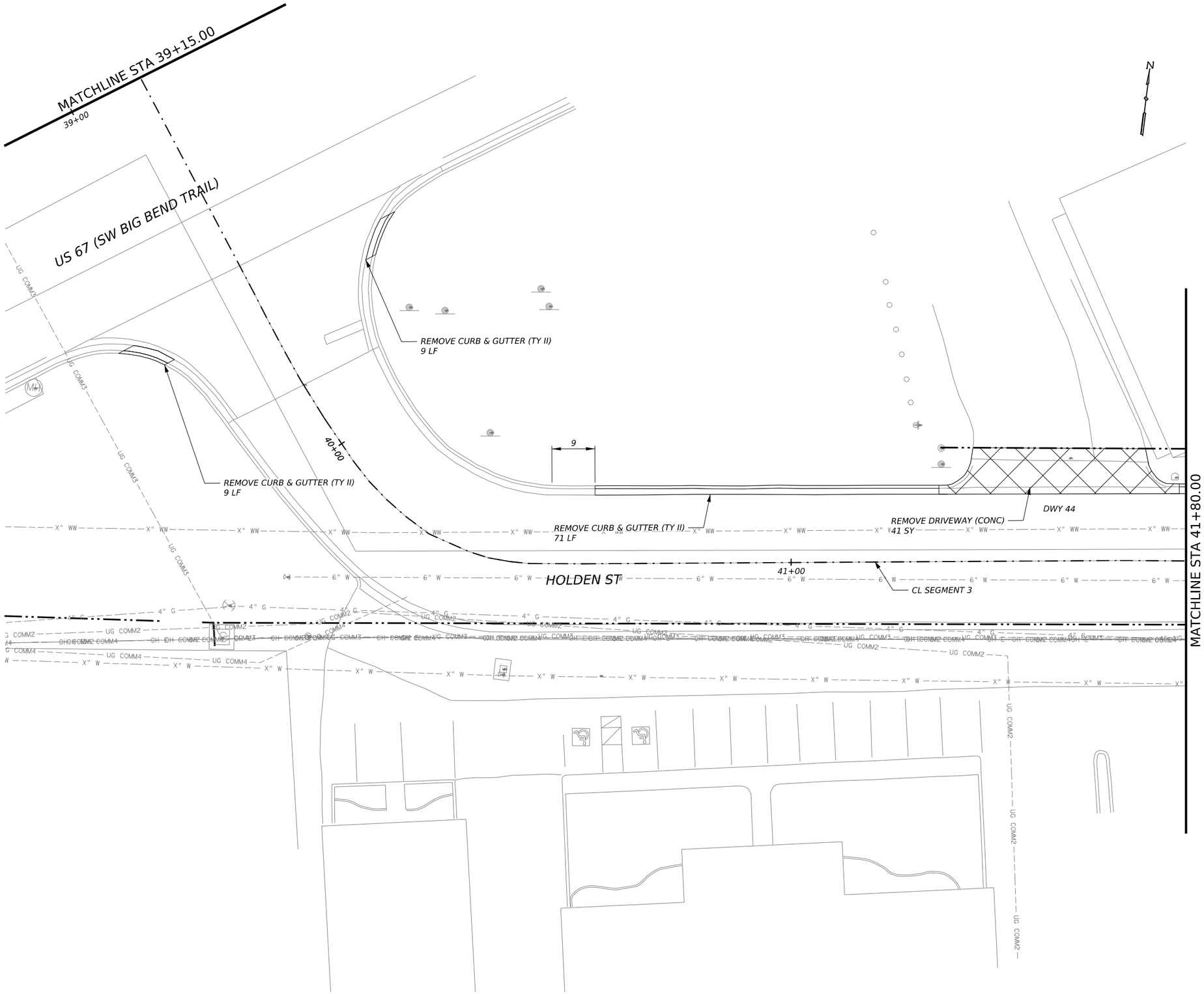
DW:	DR	CK:	RD



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
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PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
HOLDEN ST
STA 39+15.00 TO STA 41+80.00

SHEET 42 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		82

DATE: 4/12/2024 3:13:50 PM
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100% PLANS SUBMITTAL

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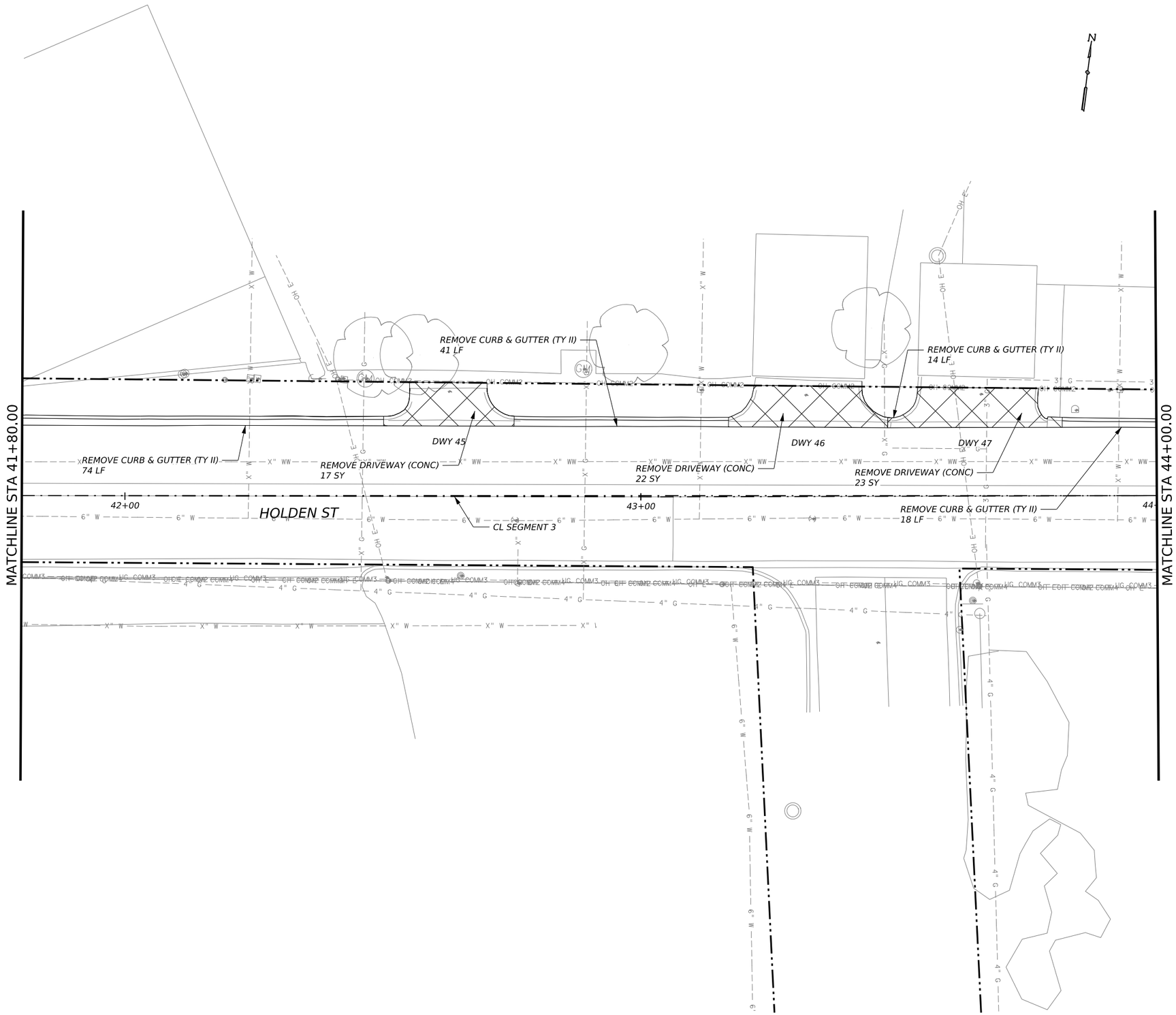
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
HOLDEN ST
STA 41+80.00 TO STA 44+00.00

SHEET 43 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		83

DATE: 4/12/2024 3:13:59 PM
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100% PLANS SUBMITTAL

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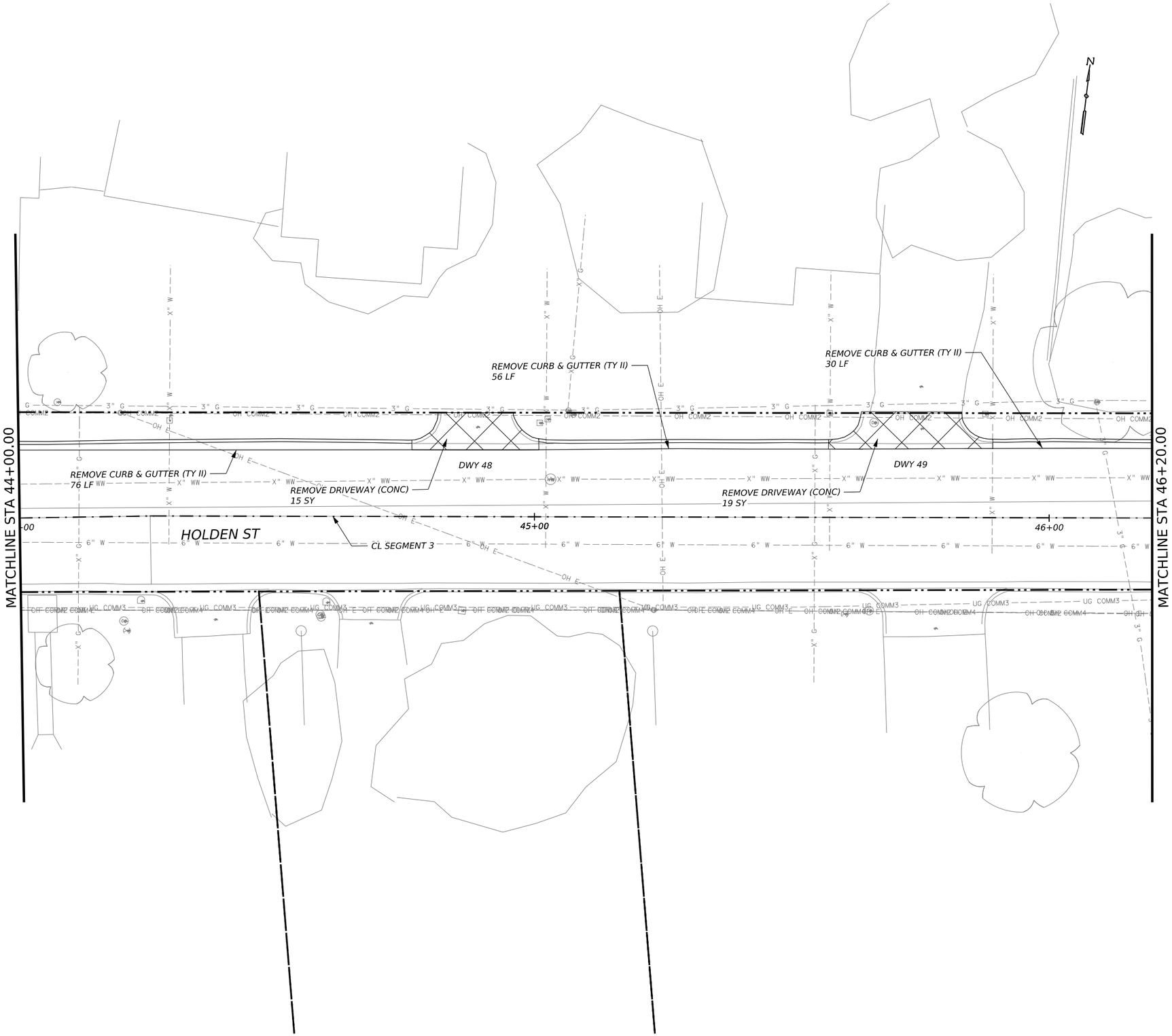
RW	DR	RD	RD	RW



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

REMOVAL PLAN
HOLDEN ST
STA 44+00.00 TO STA 46+20.00

SHEET 44 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		84

DATE: 4/12/2024 3:14:09 PM
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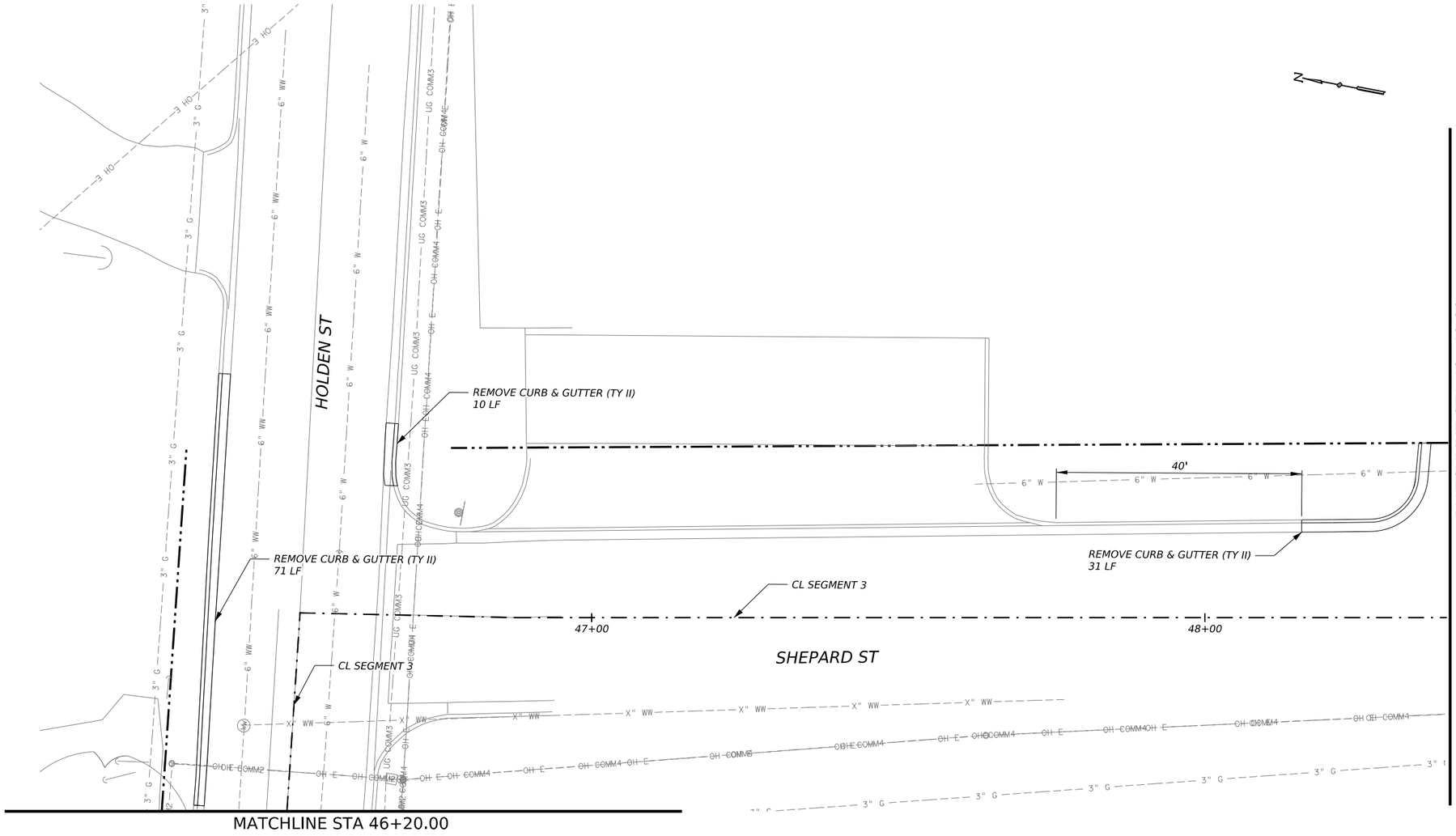
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *CENTERLINE*
- *REMOVE DRIVEWAY*
- *REMOVE SIDEWALK/RAMP*
- *REMOVE ASPHALT*
- *TEMPORARY CONSTRUCTION LICENSE AREA*

NOTES:

1. *REMOVALS SHOWN ARE GENERALLY IN THE AREA OF PROPOSED WORK AND MAY VARY SLIGHTLY IN THE FIELD.*
2. *WHEN REMOVING CURB & GUTTER OR SIDEWALK, REMOVALS SHOULD BE TO THE NEAREST JOINT, AS PERMITTED AND WITHIN REASON.*
3. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.*
4. *COORDINATE WITH ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*

0 10 20 30 40

SCALE IN FEET
1"=20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

REMOVAL PLAN
SHEPARD ST
STA 46+20.00 TO STA 48+40.00

SHEET 45 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		85

DATE: 4/12/2024 5:07:45 PM
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100% PLANS SUBMITTAL

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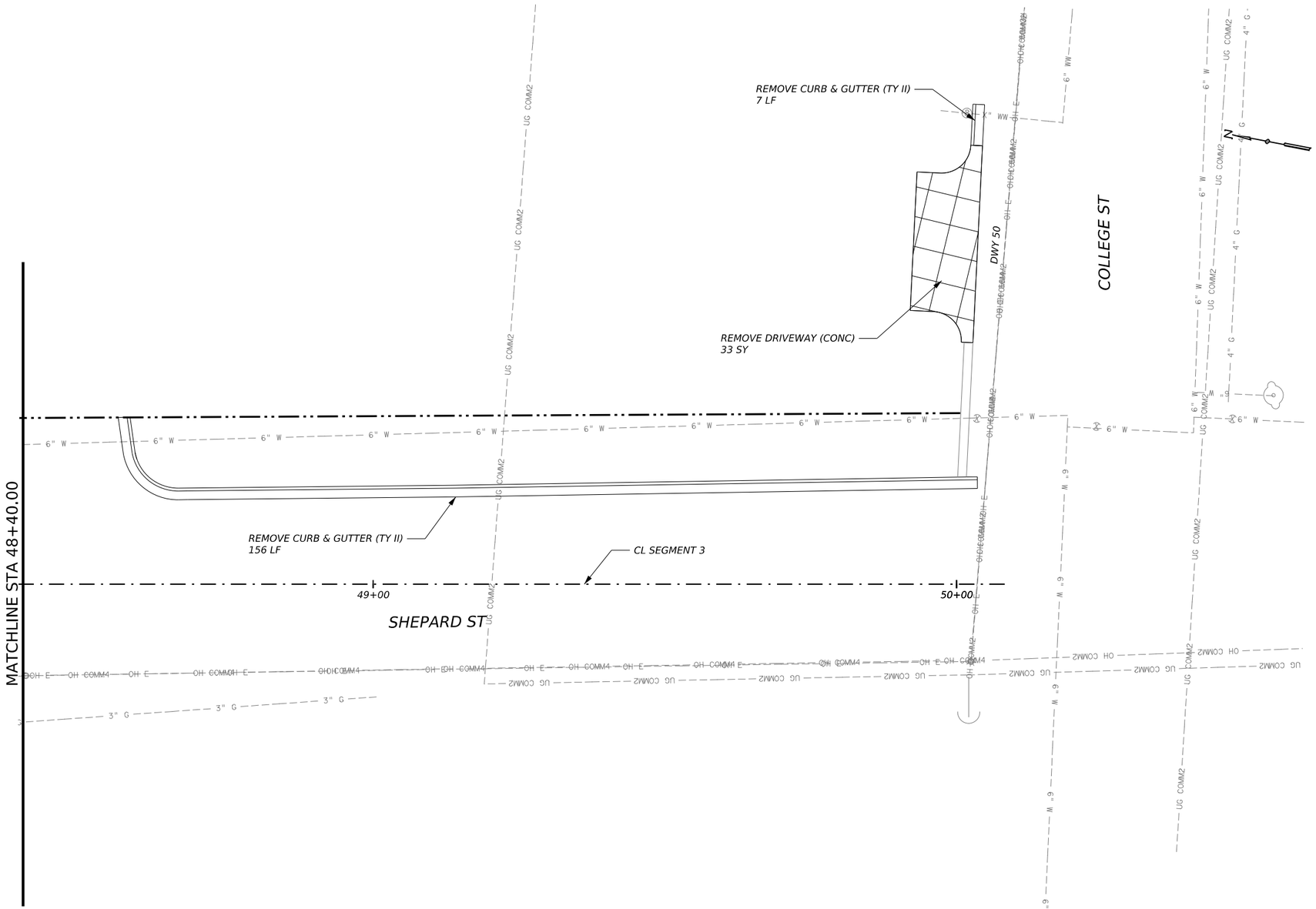
RW	DR	RD	RW



NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

REMOVAL PLAN
SHEPARD ST
STA 48+40.00 TO END SEG 3

SHEET 46 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		86

DATE: 4/12/2024 3:14:28 PM
FILE: GR_SRTS_RMV_46.dgn

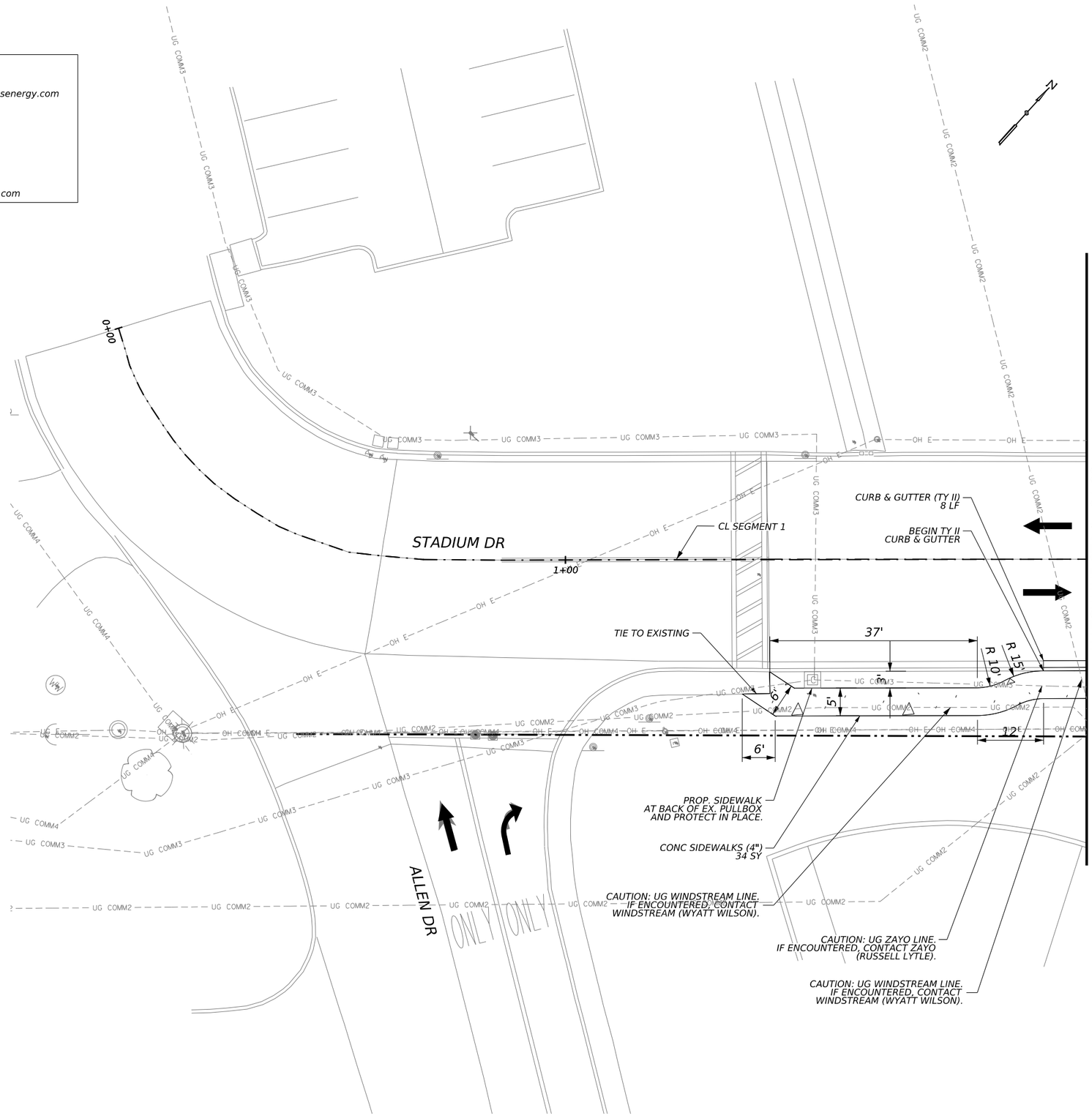
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:	DW:
RW	DR	RD	RW	

ATMOS ENERGY
MATTHEW CUNNINGHAM
325-203-2992
Matthew.Cunningham@atmosenergy.com

ZAYO
RUSSELL LYTLE
817-538-8532
Russell.Lytle@Zayo.com

WINDSTREAM
WYATT WILSON
254-203-0156
Wyatt.L.Wilson@windstream.com



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG (ECL)
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
2. TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.
3. SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.
4. PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.
5. SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.
6. ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
7. "REFL PAV MRK" CALLOUT ABOVE INCLUDE QUANITITES FOR REL PAV MRK TY I, REFL PAV MRK TY II AND PAV SURF PREP FOR MAKINGS.
8. LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.
9. PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.
10. SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.
11. LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.
12. ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.
13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
STADIUM DR
BEGIN SEG 1
TO STA 1+94.00

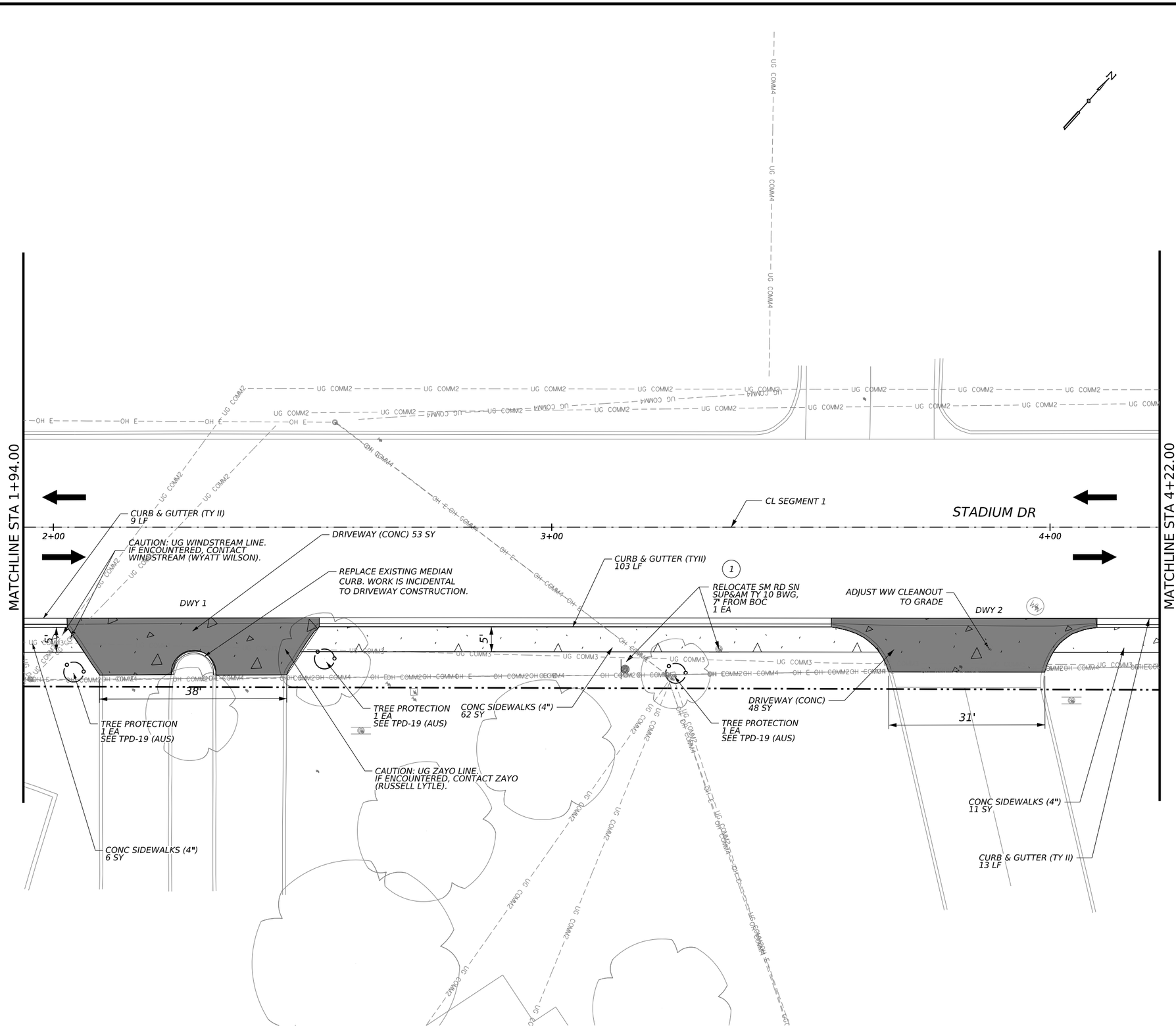
SHEET 1 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		87

DATE: 4/12/2024 3:14:39 PM
FILE: GR_SRTS_SDWK01.dgn

100% PLANS SUBMITTAL

DW:	RW	CK:	DR	DW:	RD	CK:	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

1. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*
2. *TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.*
3. *SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.*
4. *PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.*
5. *SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.*
6. *ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).*
7. *"REFL PAV MRK" CALLOUT ABOVE INCLUDE QUANITITES FOR REL PAV MRK TY I, REFL PAV MRK TY II AND PAV SURF PREP FOR MAKINGS.*
8. *LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.*
9. *PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.*
10. *SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.*
11. *LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.*
12. *ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.*
13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
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Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
STADIUM DR
STA 1+94.00 TO STA 4+22.00

SHEET 2 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		88

DATE: 4/12/2024 3:14:48 PM
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100% PLANS SUBMITTAL

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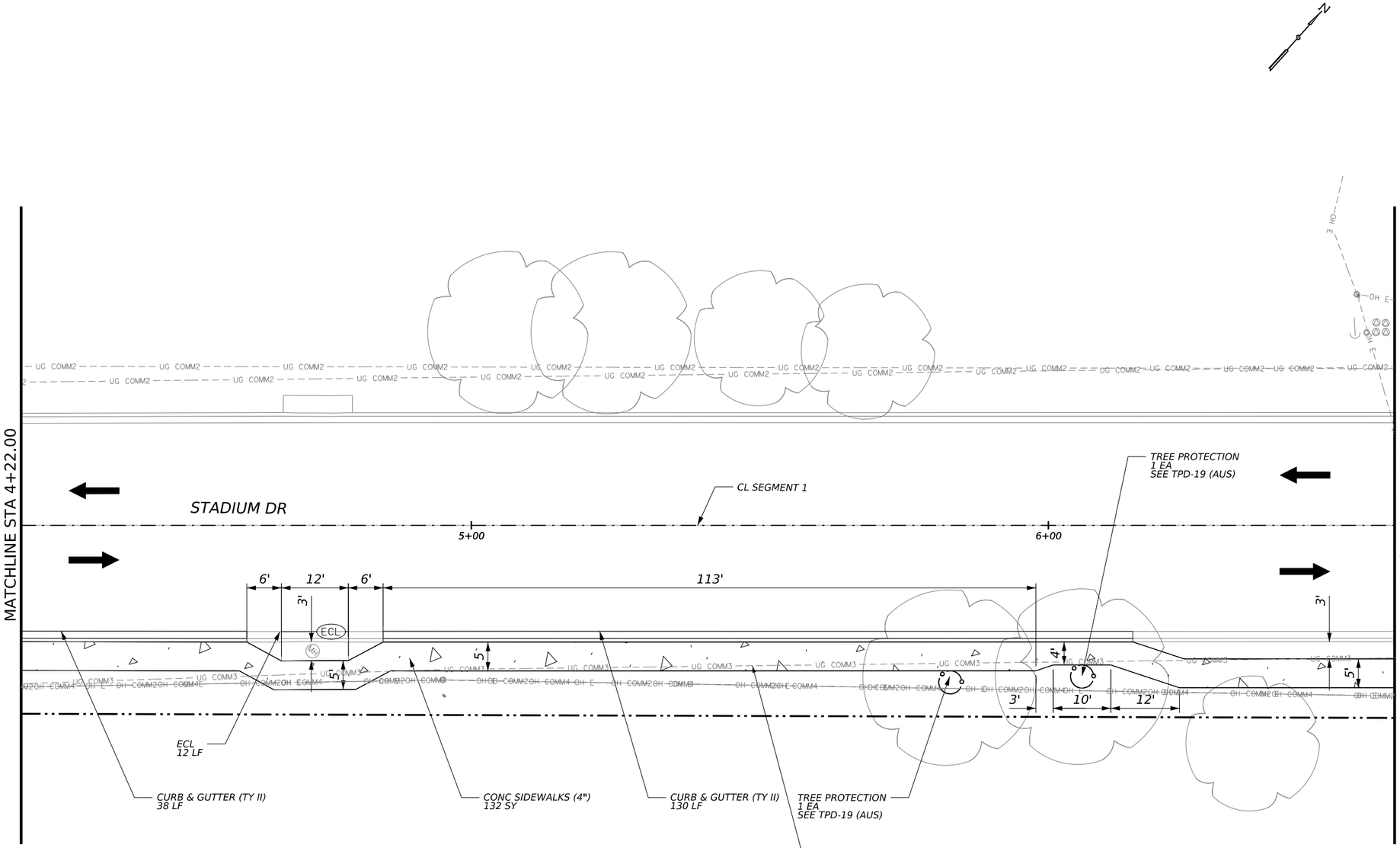
RW	DR	RD	RW	



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

1. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*
2. *TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.*
3. *SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.*
4. *PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.*
5. *SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.*
6. *ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).*
7. *"REFL PAV MRK" CALLOUT ABOVE INCLUDE QUANITITES FOR REL PAV MRK TY I, REFL PAV MRK TY II AND PAV SURF PREP FOR MAKINGS.*
8. *LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.*
9. *PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.*
10. *SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.*
11. *LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.*
12. *ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.*
13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
STADIUM DR
STA 4+22.00 TO STA 6+60.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		89

DATE: 4/12/2024 3:14:57 PM
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100% PLANS SUBMITTAL

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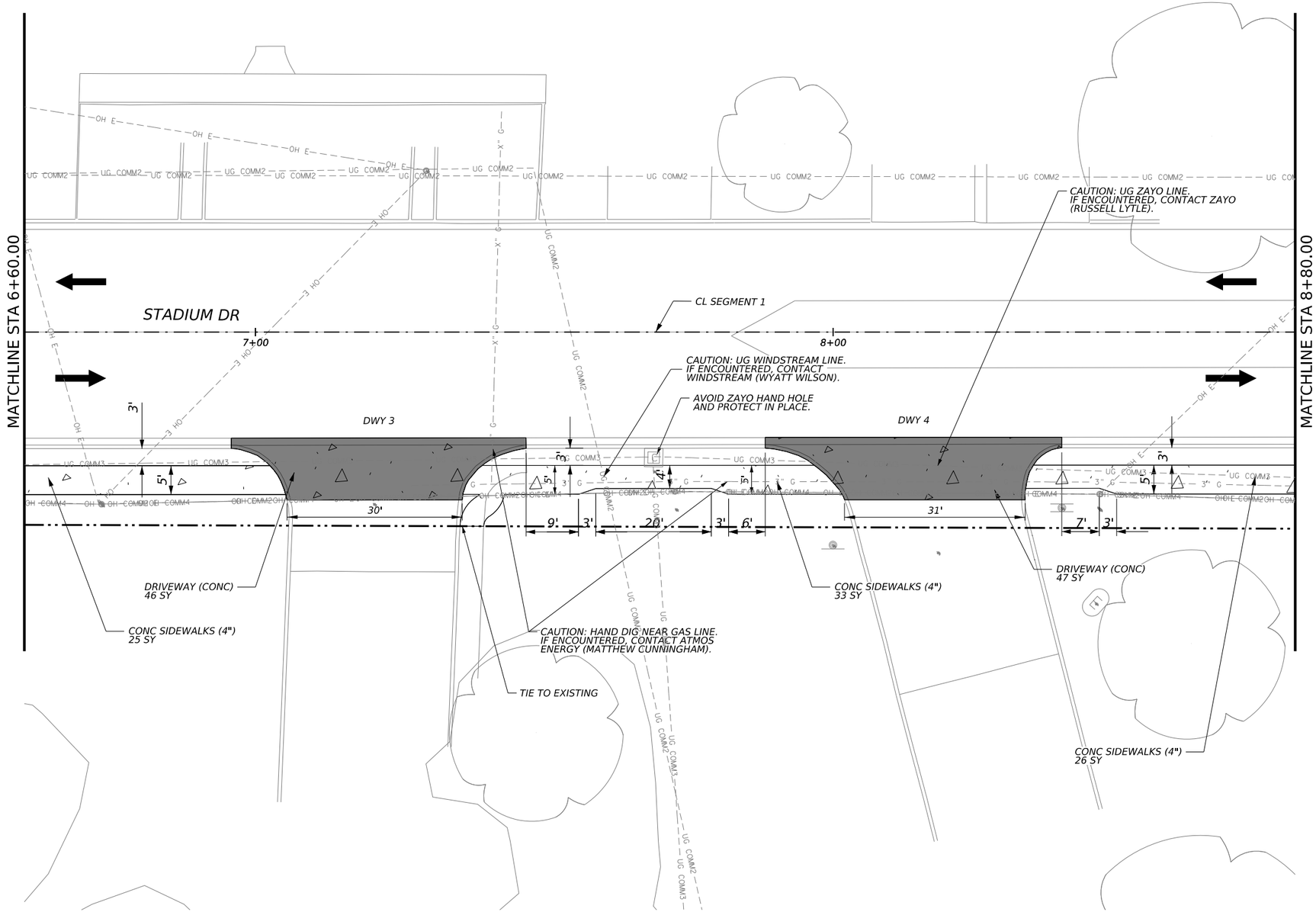
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
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CURB RAMPS

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F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

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04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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PROFESSIONAL ENGINEER

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Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
STADIUM DR
STA 6+60.00 TO STA 8+80.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		90

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100% PLANS SUBMITTAL

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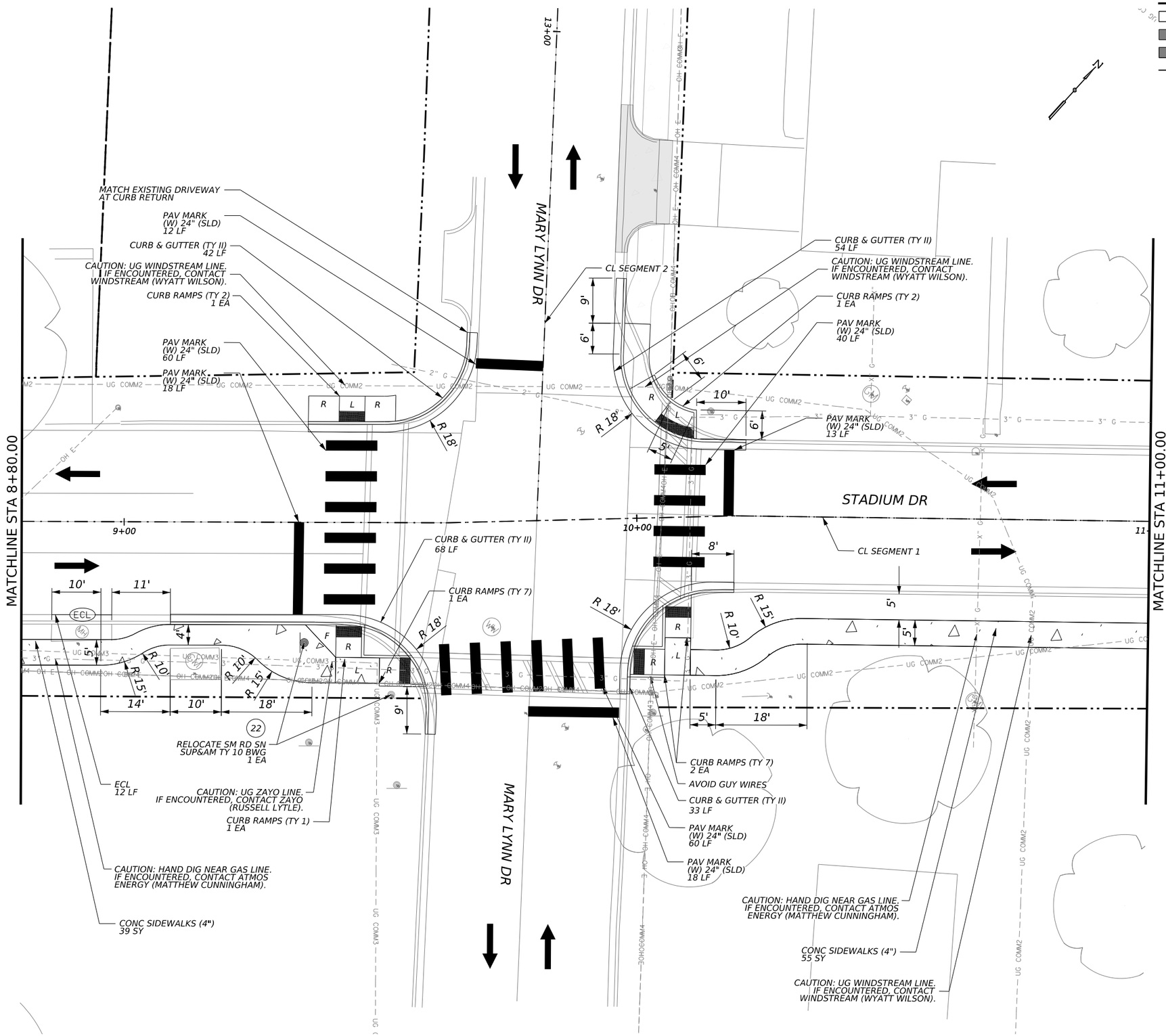

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

SCALE IN FEET
0 10 20 30 40
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
STADIUM DR
STA 8+80.00 TO STA 11+00.00

SHEET 5 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		91

DATE: 4/12/2024 3:15:15 PM
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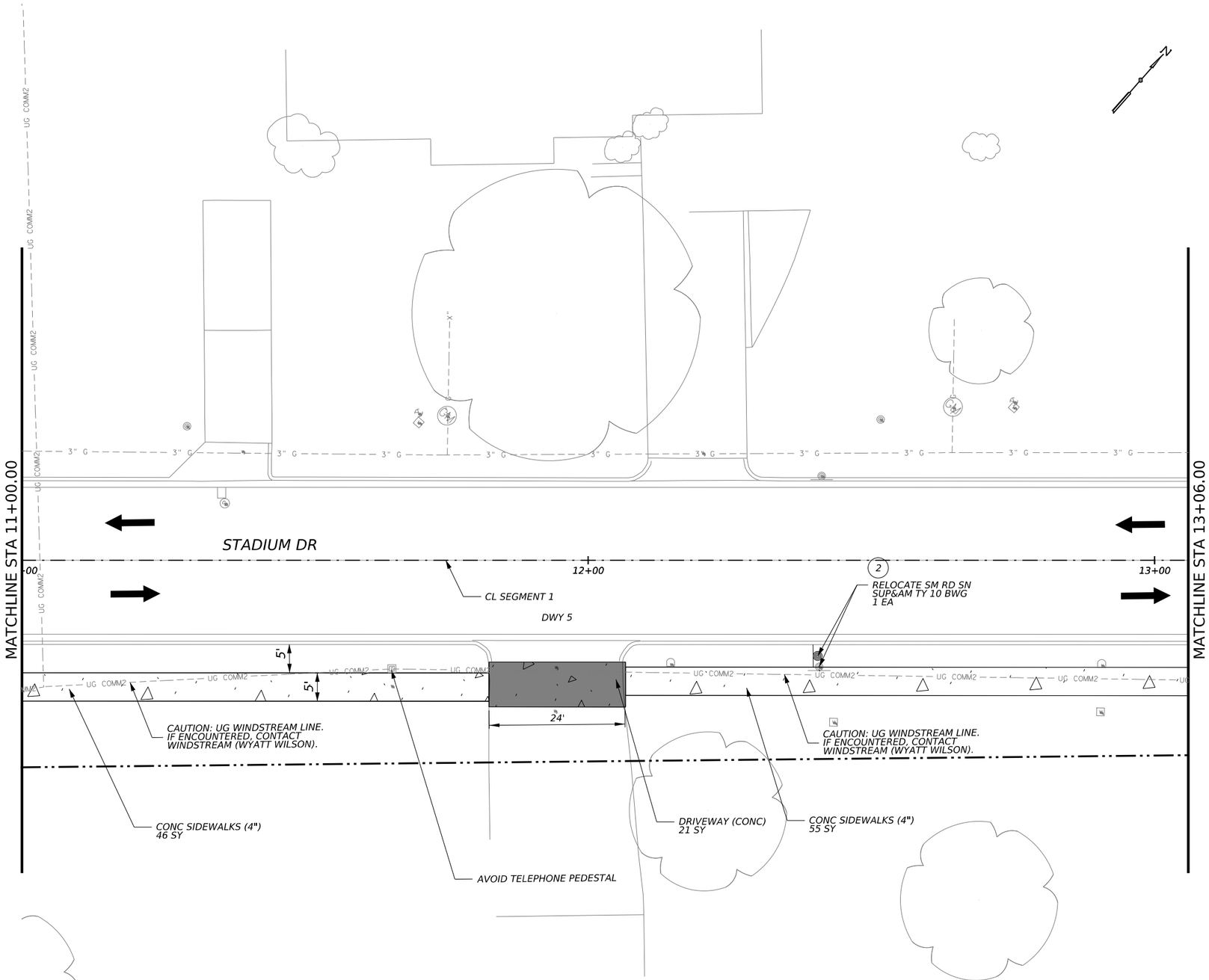
RW	DR	RD	RW



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG (ECL)
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

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13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
STADIUM DR
STA 11+00.00 TO STA 13+06.00

SHEET 6 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		92

DATE: 4/12/2024 3:15:24 PM
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100% PLANS SUBMITTAL

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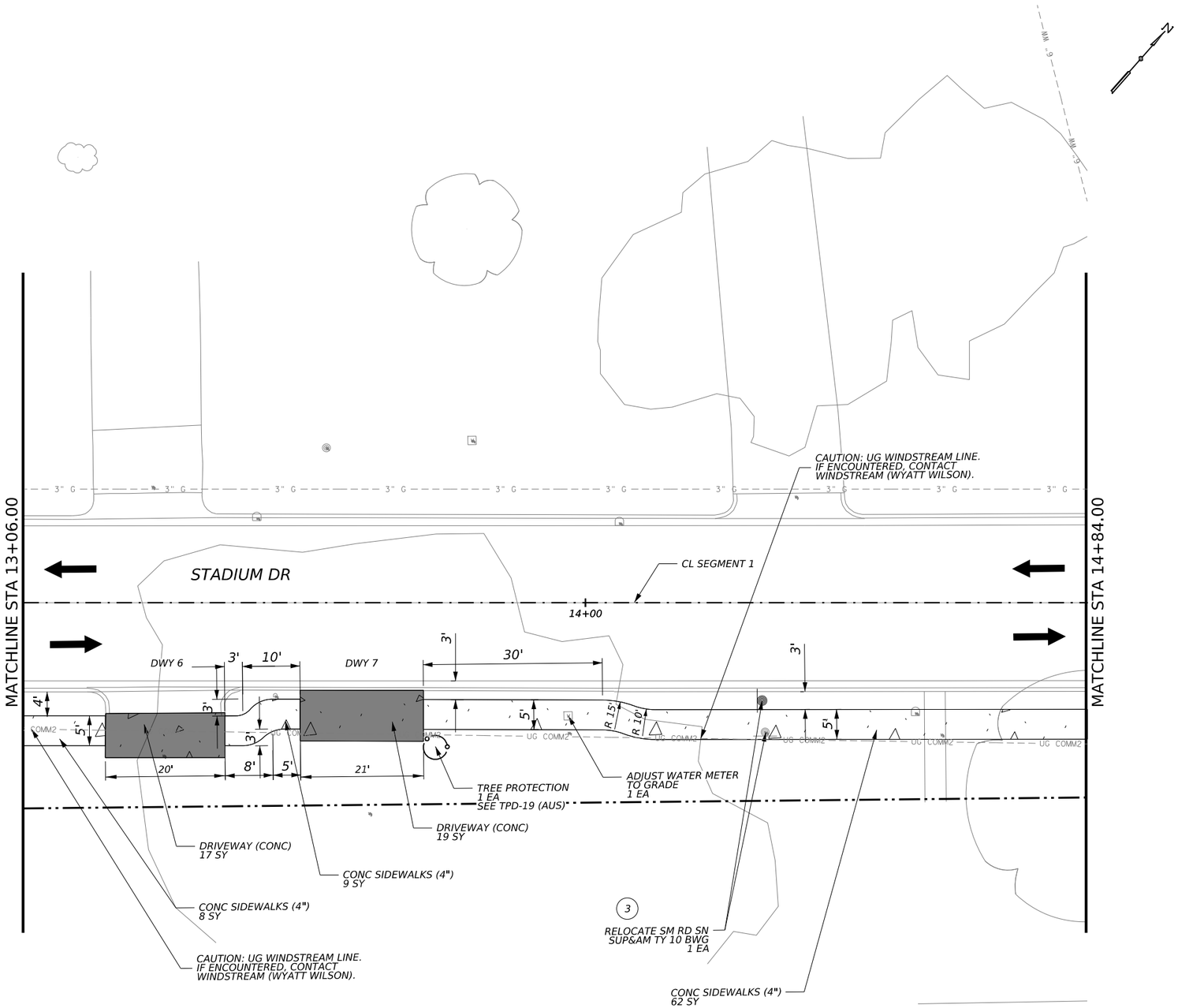

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG (ECL)
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

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13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
STADIUM DR
STA 13+06.00 TO STA 14+84.00

SHEET 7 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		93

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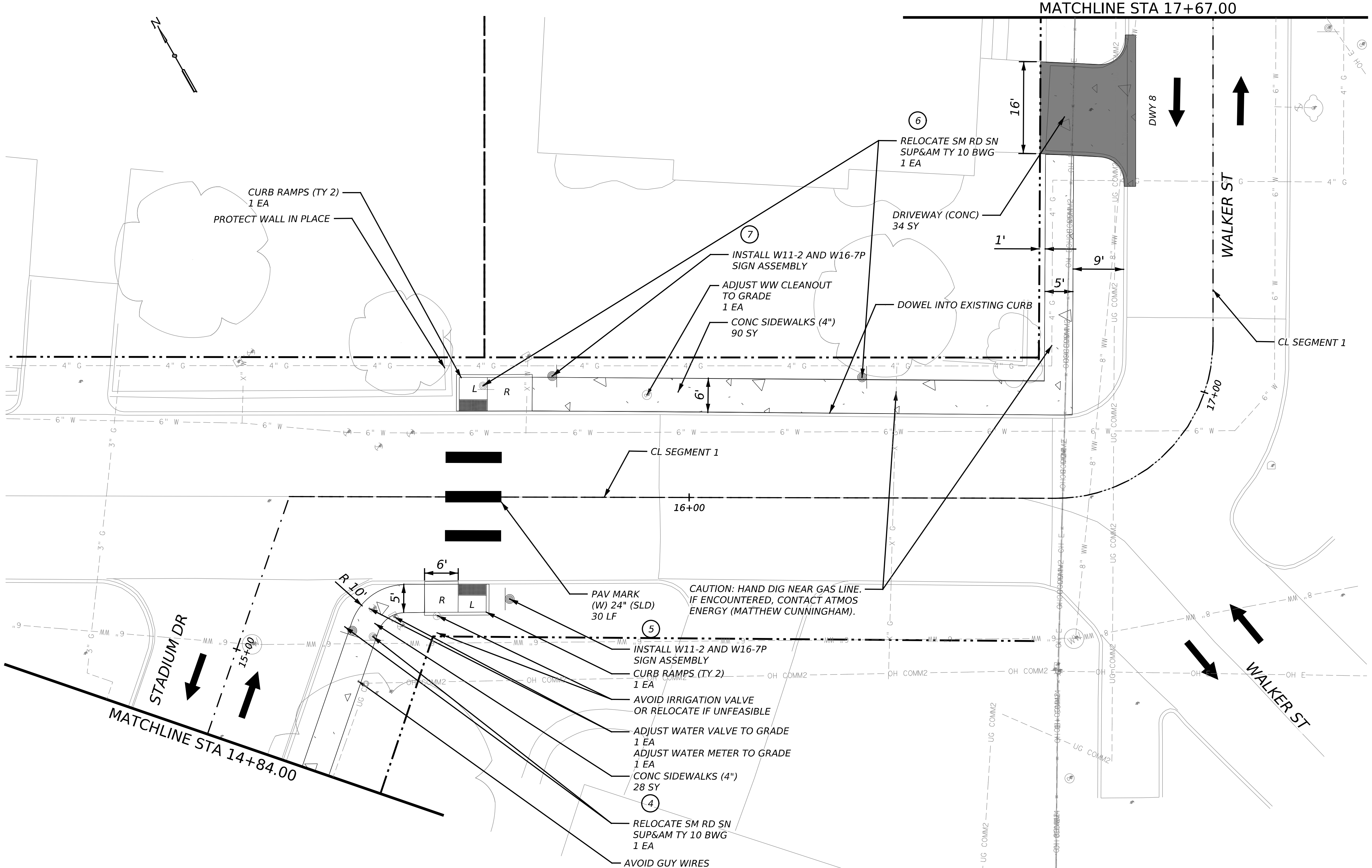

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
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SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

[illegible]

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

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Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
NANCY DR
STA 14+84.00 TO STA 17+67.00

SHEET 8 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		94

DATE: 4/12/2024 3:15:43 PM
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100% PLANS SUBMITTAL

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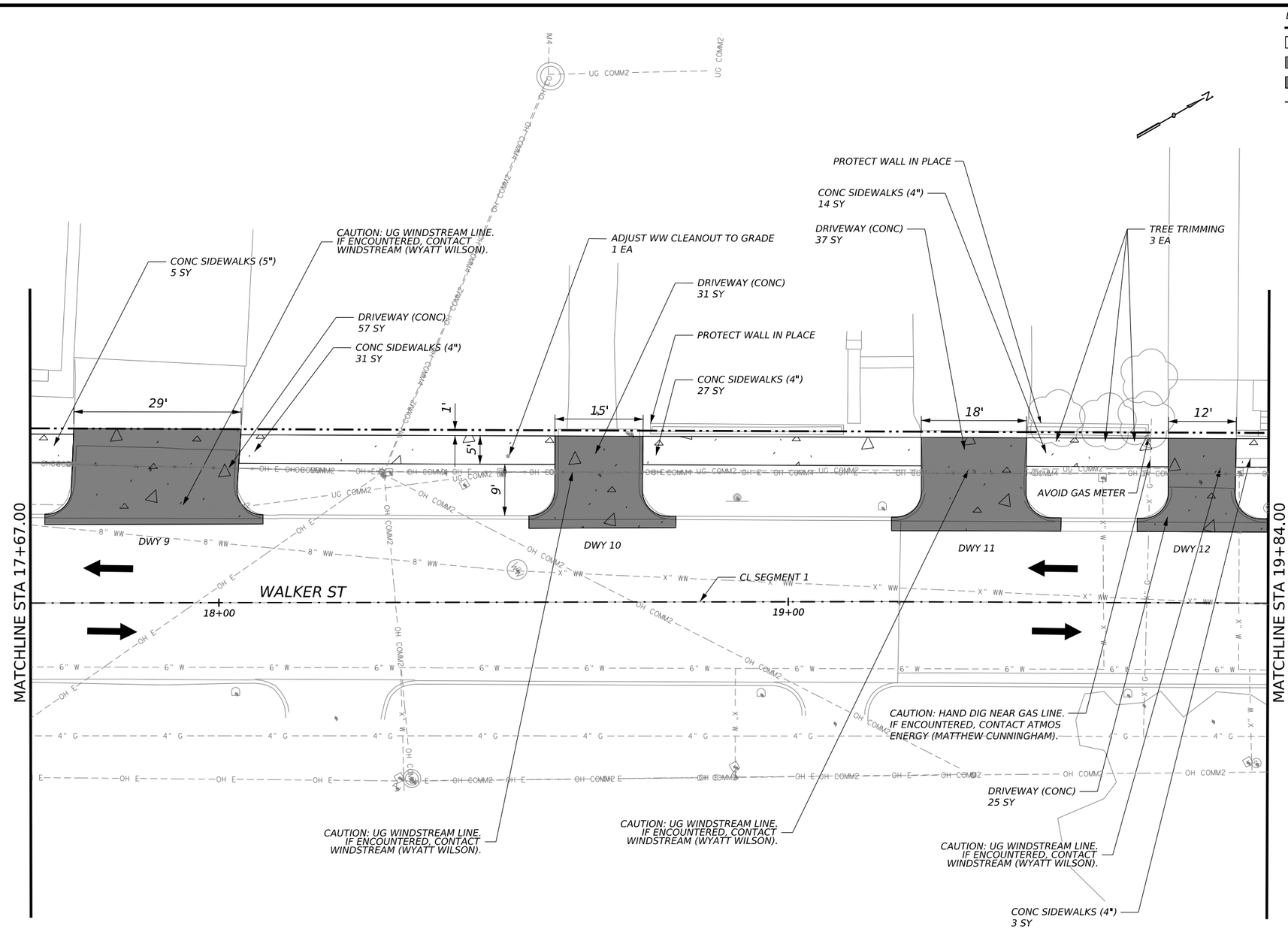
DW:	DR	CK:	RD



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
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SAFE ROUTES

SIDEWALK PLAN
WALKER ST
STA 17+67.00 TO STA 19+84.00

SHEET 9 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		95

DATE: 4/12/2024 3:15:53 PM
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100% PLANS SUBMITTAL

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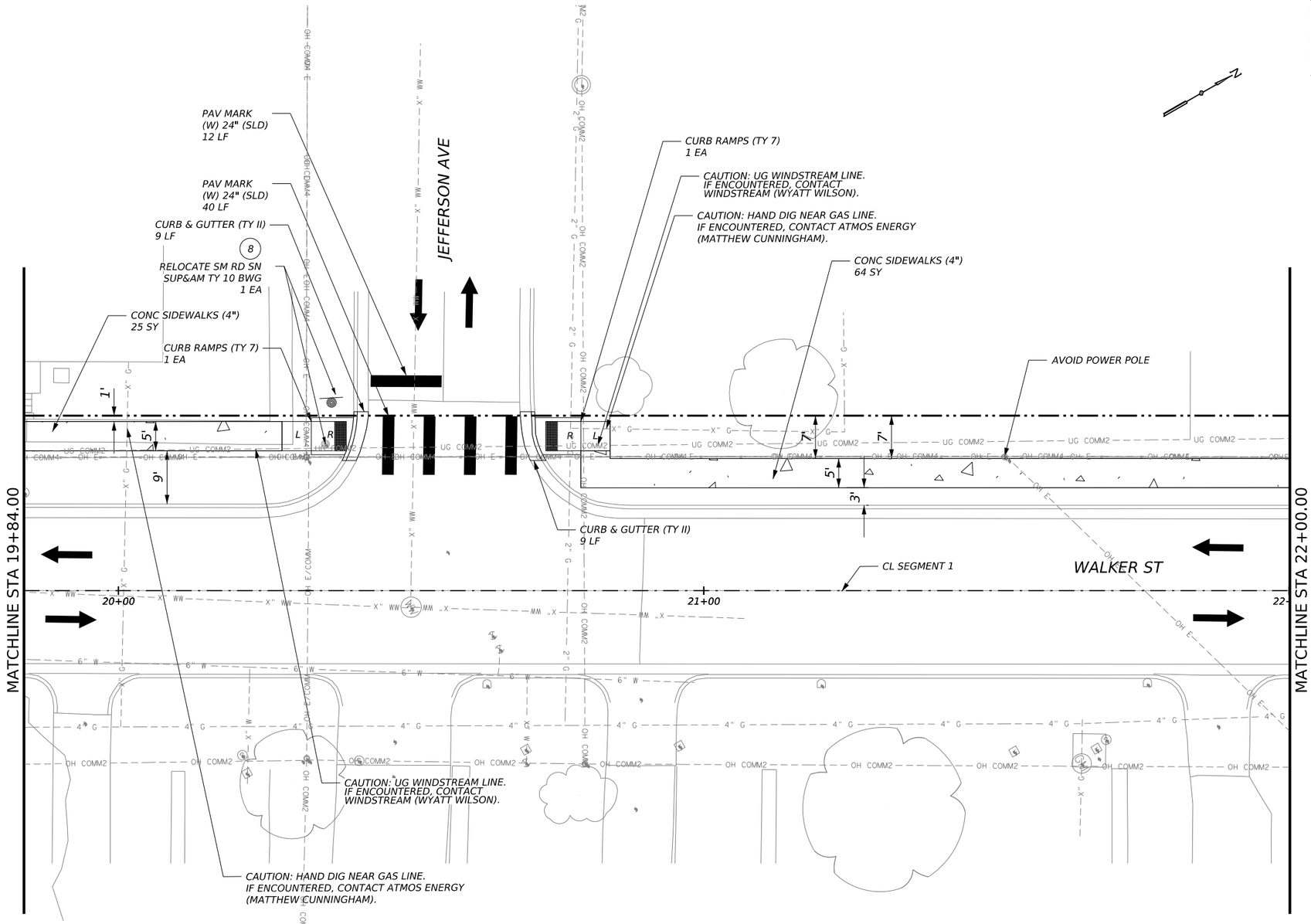
RW	RW	DR	RD	RW



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
2. TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.
3. SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.
4. PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.
5. SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.
6. ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
7. "REFL PAV MRK" CALLOUT ABOVE INCLUDE QUANITITES FOR REL PAV MRK TY I, REFL PAV MRK TY II AND PAV SURF PREP FOR MAKINGS.
8. LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.
9. PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.
10. SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.
11. LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.
12. ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.
13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
WALKER ST
STA 19+84.00 TO STA 22+00.00

SHEET 10 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		96

DATE: 4/12/2024 3:16:03 PM
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100% PLANS SUBMITTAL

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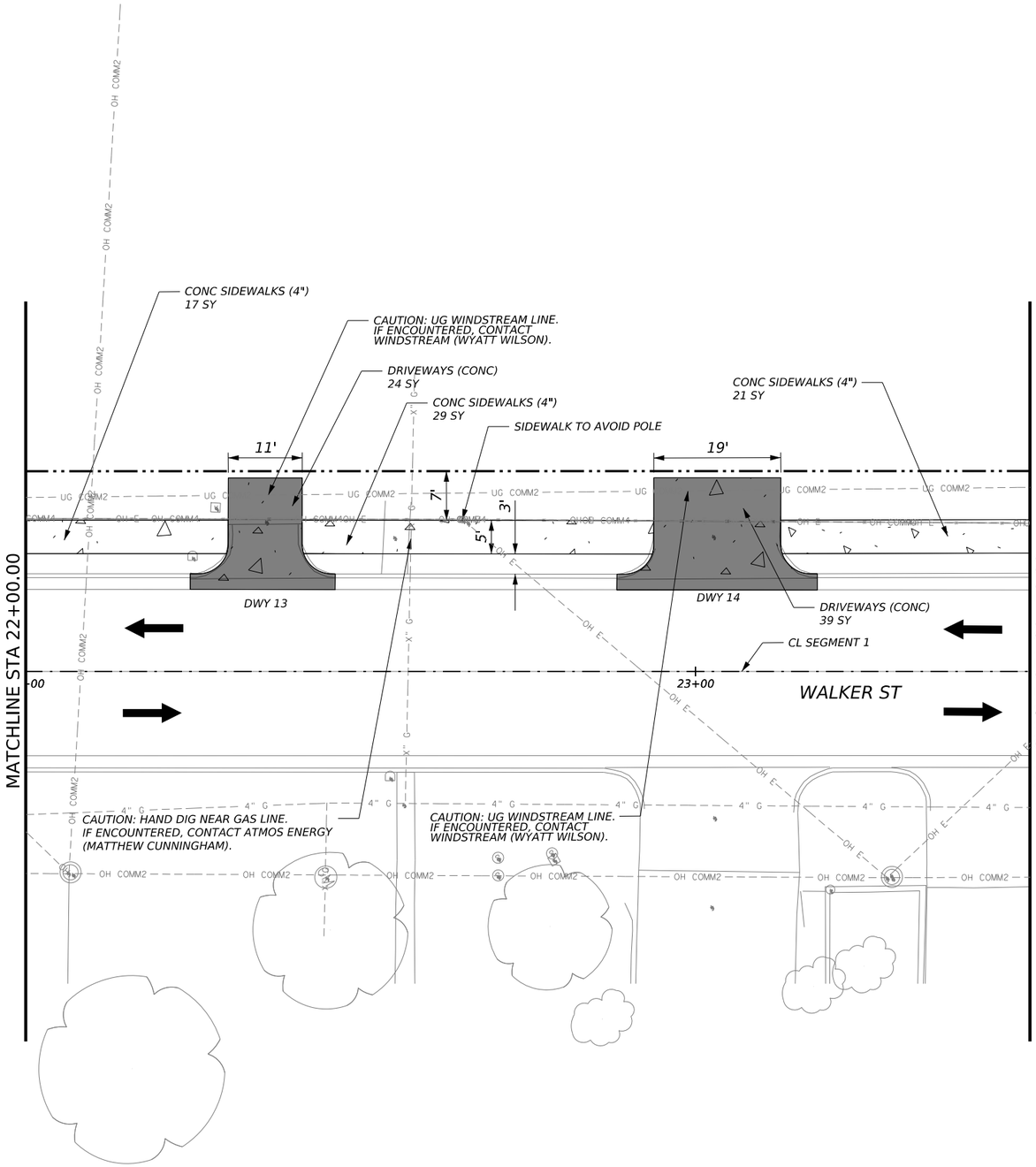

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG (ECL)
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
WALKER ST
STA 22+00.00 TO STA 23+50.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		97

DATE: 4/12/2024 3:16:12 PM
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100% PLANS SUBMITTAL

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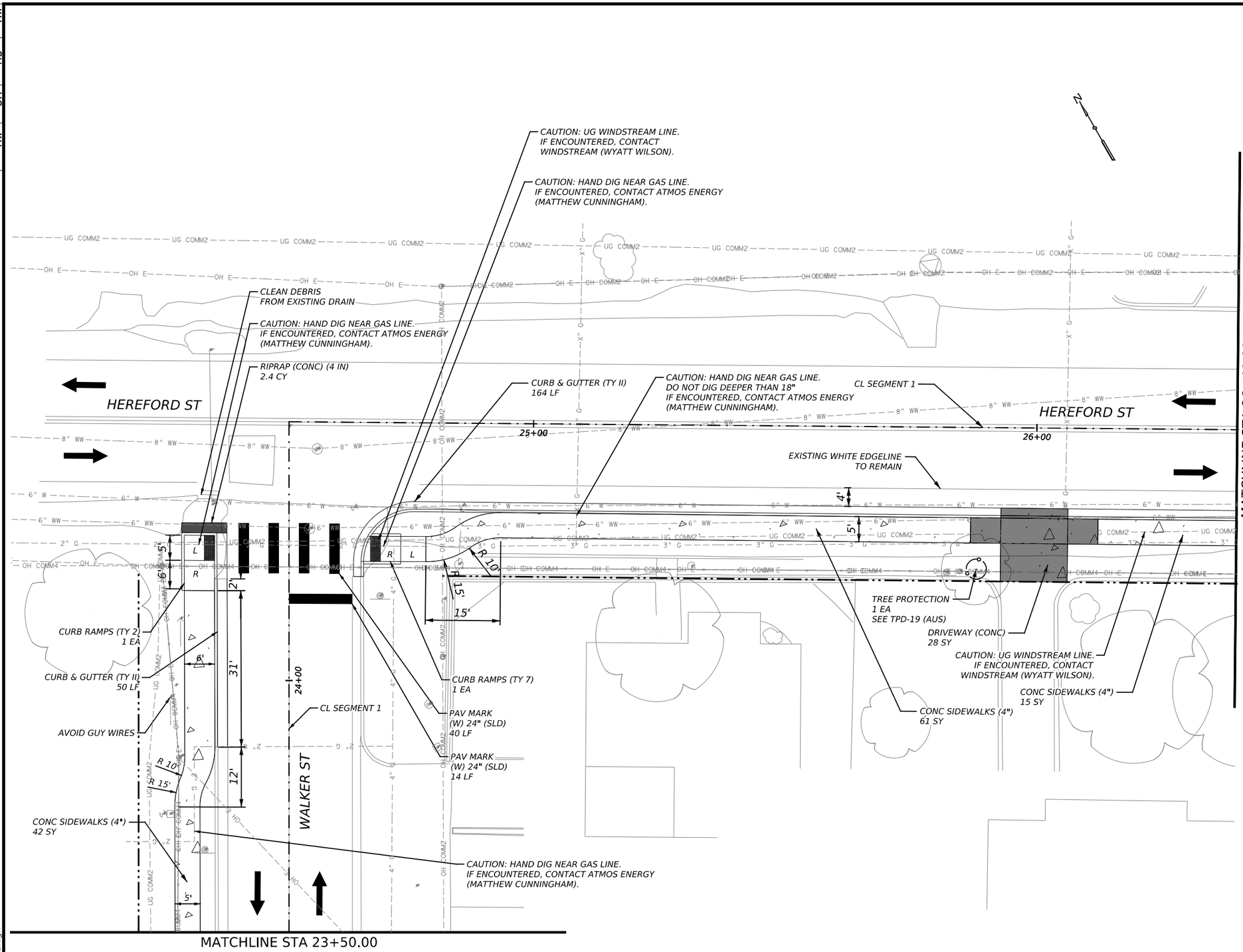
RW	RW	DR	RD



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

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13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
HEREFORD ST
STA 23+50.00 TO STA 26+40.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		98

DATE: 4/12/2024 7:43:13 PM
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100% PLANS SUBMITTAL

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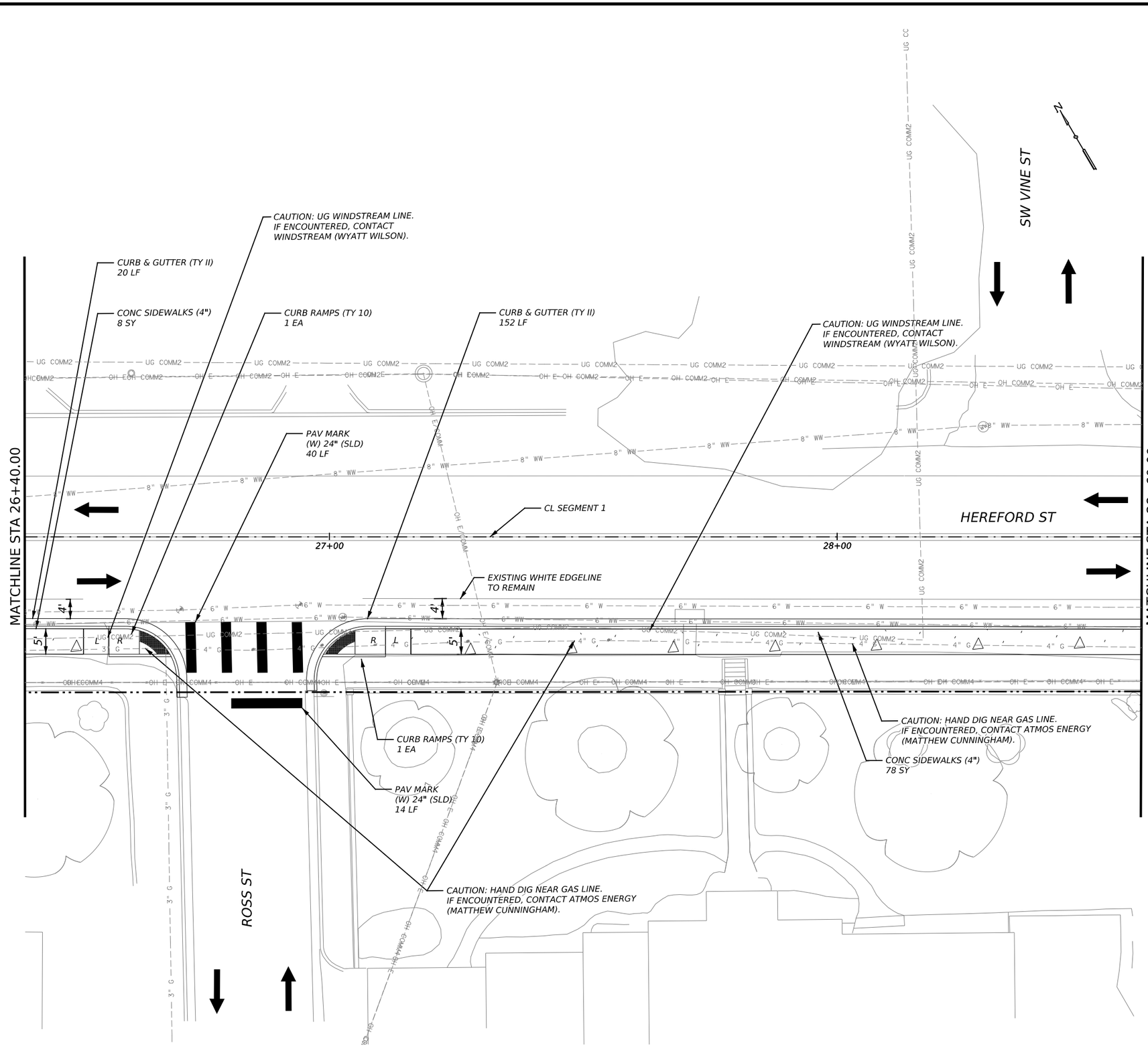

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
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13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
HEREFORD ST
STA 26+40.00 TO STA 28+60.00

SHEET 13 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		99

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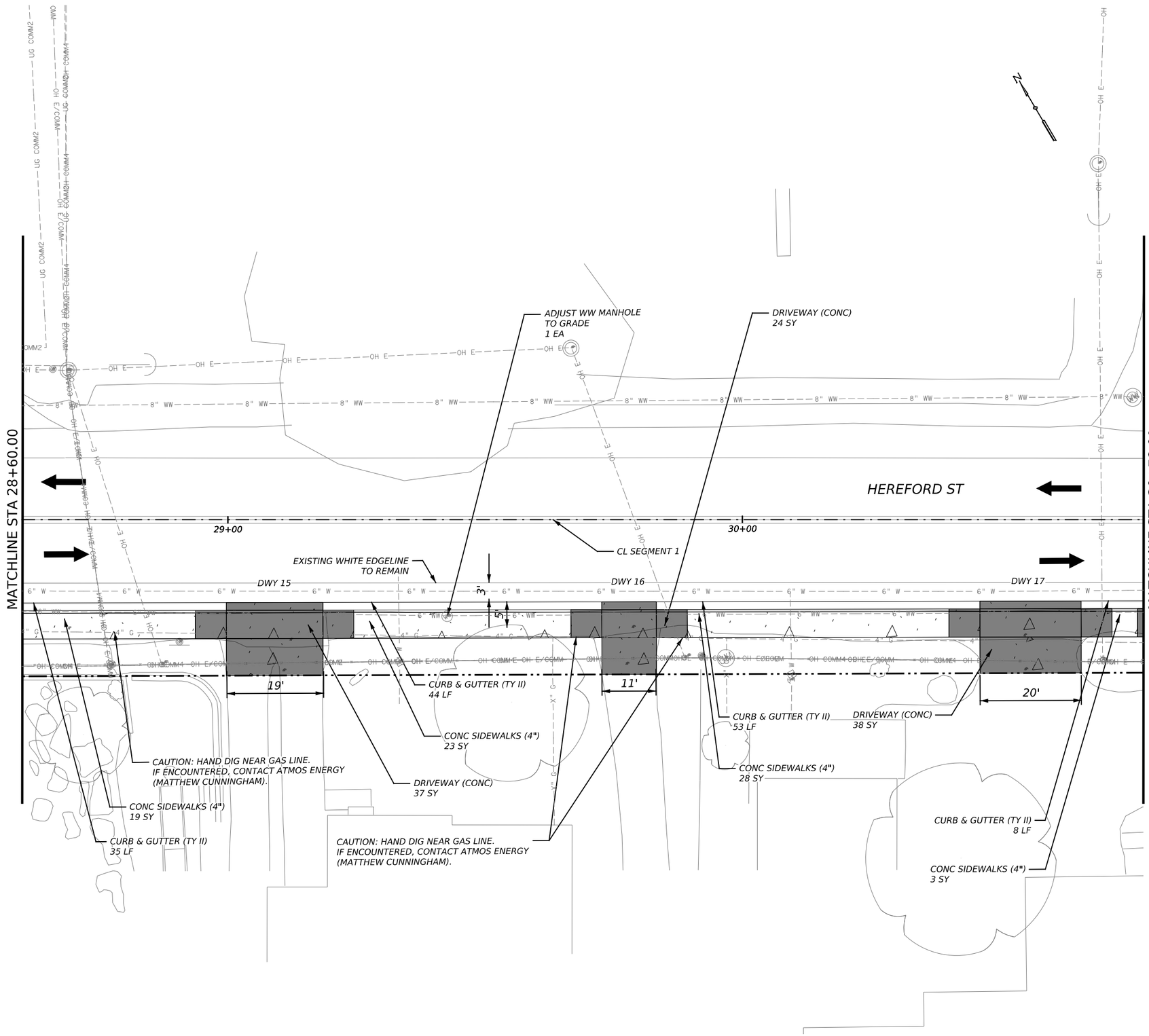

LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
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NOTES:

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10. *SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.*
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13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

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SAFE ROUTES

SIDEWALK PLAN
HEREFORD ST
STA 28+60.00 TO STA 30+78.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		100

DATE: 4/12/2024 3:16:40 PM
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100% PLANS SUBMITTAL

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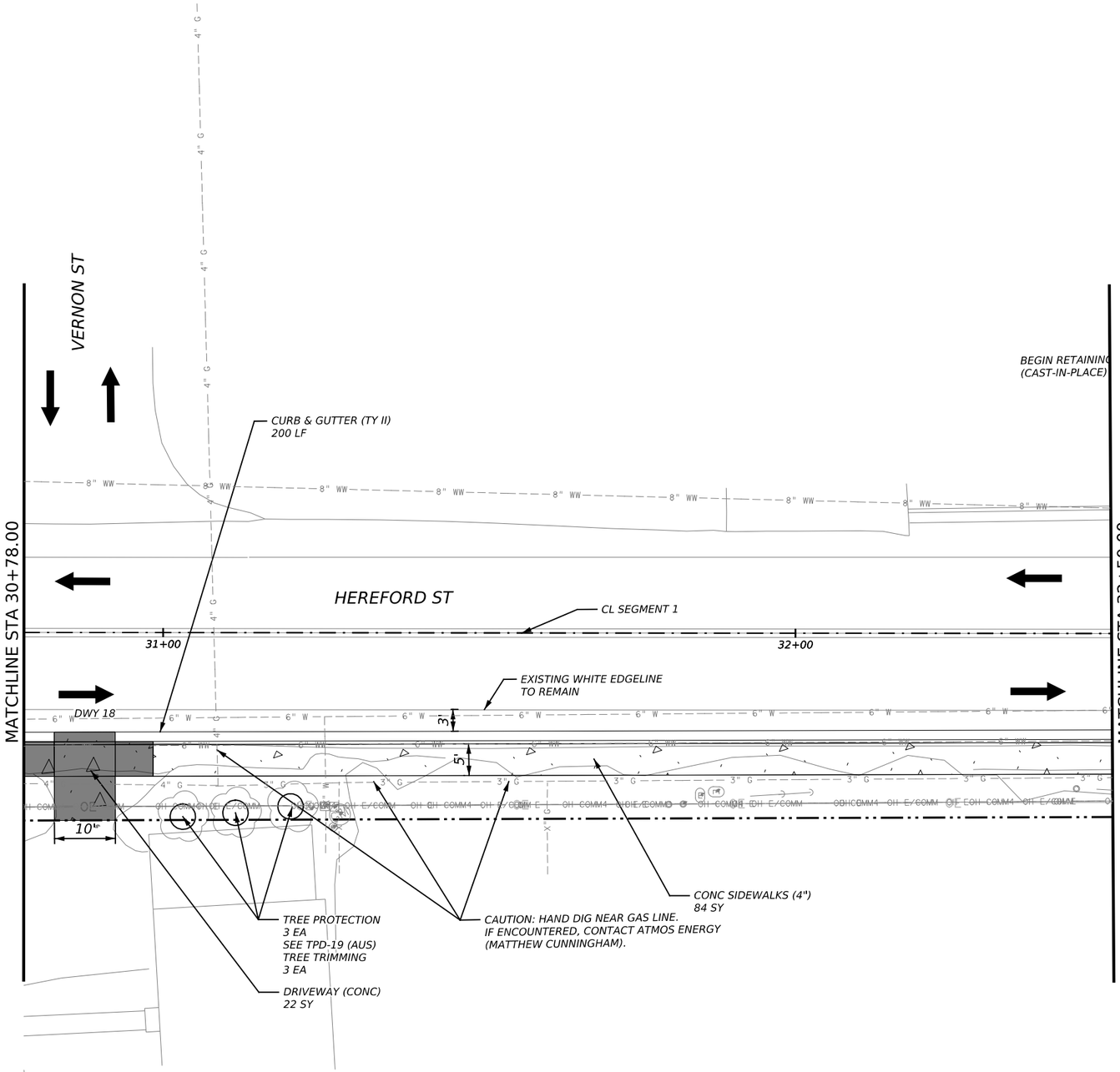

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
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0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

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Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
HEREFORD ST
STA 30+78.00 TO STA 32+50.00

SHEET 15 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		101

DATE: 4/12/2024 3:16:50 PM
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100% PLANS SUBMITTAL

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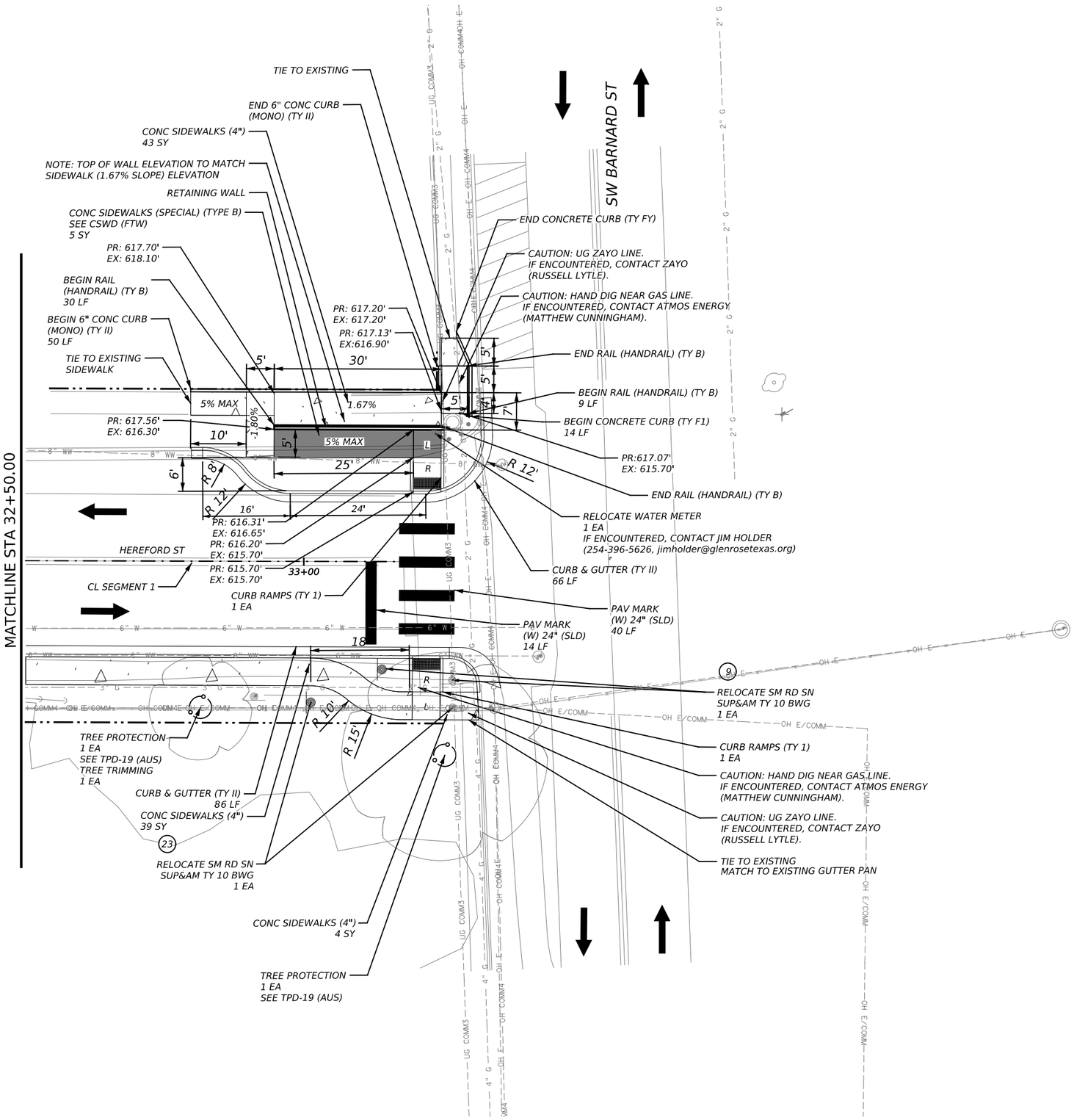
RW	CK:	DR	DSN:	RD	CK:	RW



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
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8. LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.
9. PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.
10. SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.
11. LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.
12. ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.
13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.
14. CONTRACTOR TO VERIFY ELEVATIONS IN THE FIELD AND CONFIRM DESIGN CHANGES WITH THE ENGINEER.

0 10 20 30 40

SCALE IN FEET
1" = 20'

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

NO.	DATE	REVISION	APPR BY

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

05-03-2024

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
HEREFORD ST
STA 33+00.00 TO END SEG 1

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		102

DATE: 5/3/2024 2:34:41 PM
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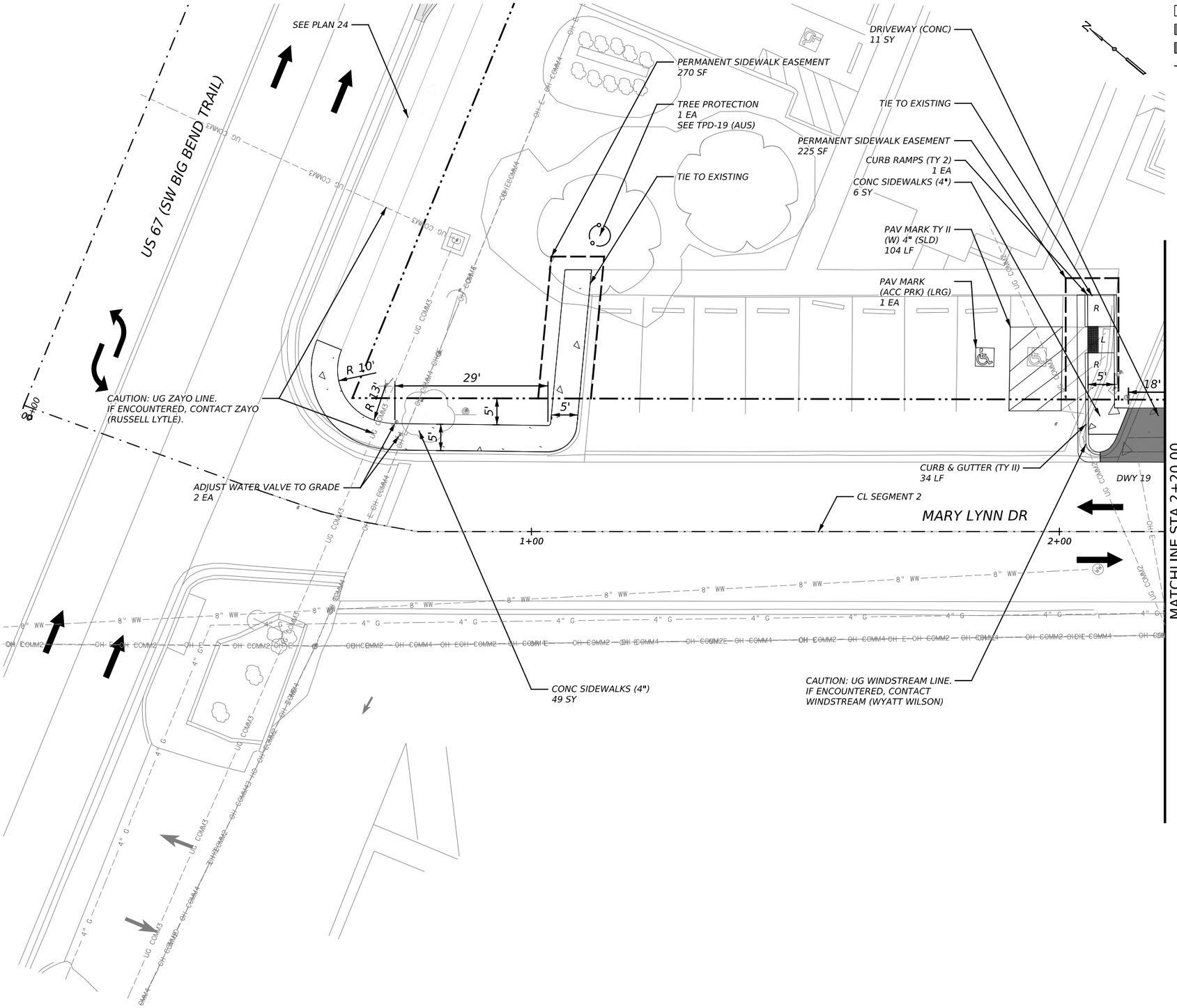
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

1. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*
2. *TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.*
3. *SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.*
4. *PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.*
5. *SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.*
6. *ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).*
7. *"REFL PAV MRK" CALLOUT ABOVE INCLUDE QUANITITES FOR REL PAV MRK TY I, REFL PAV MRK TY II AND PAV SURF PREP FOR MAKINGS.*
8. *LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.*
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13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

SIDEWALK PLAN
MARY LYNN
BEGIN SEG 2 TO STA 2+20.00

SHEET 17 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		103

DATE: 4/12/2024 3:17:08 PM
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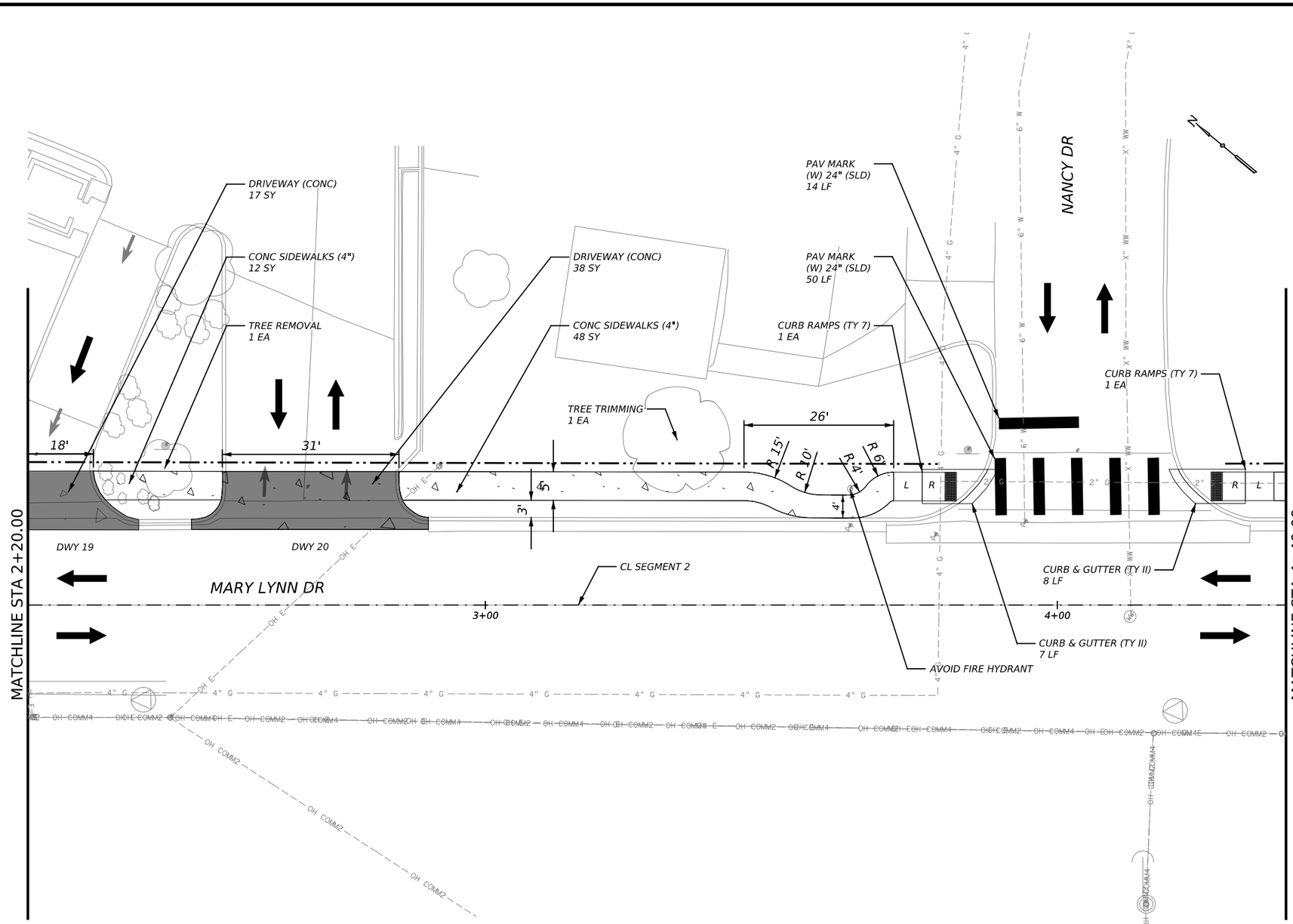
100% PLANS SUBMITTAL

DW:	RW	CK:	RW
CK:	DR	DW:	RD



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG (ECL)
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
MARY LYNN
STA 2+20.00 TO STA 4+40.00

SHEET 18 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		104

DATE: 4/12/2024 3:17:18 PM
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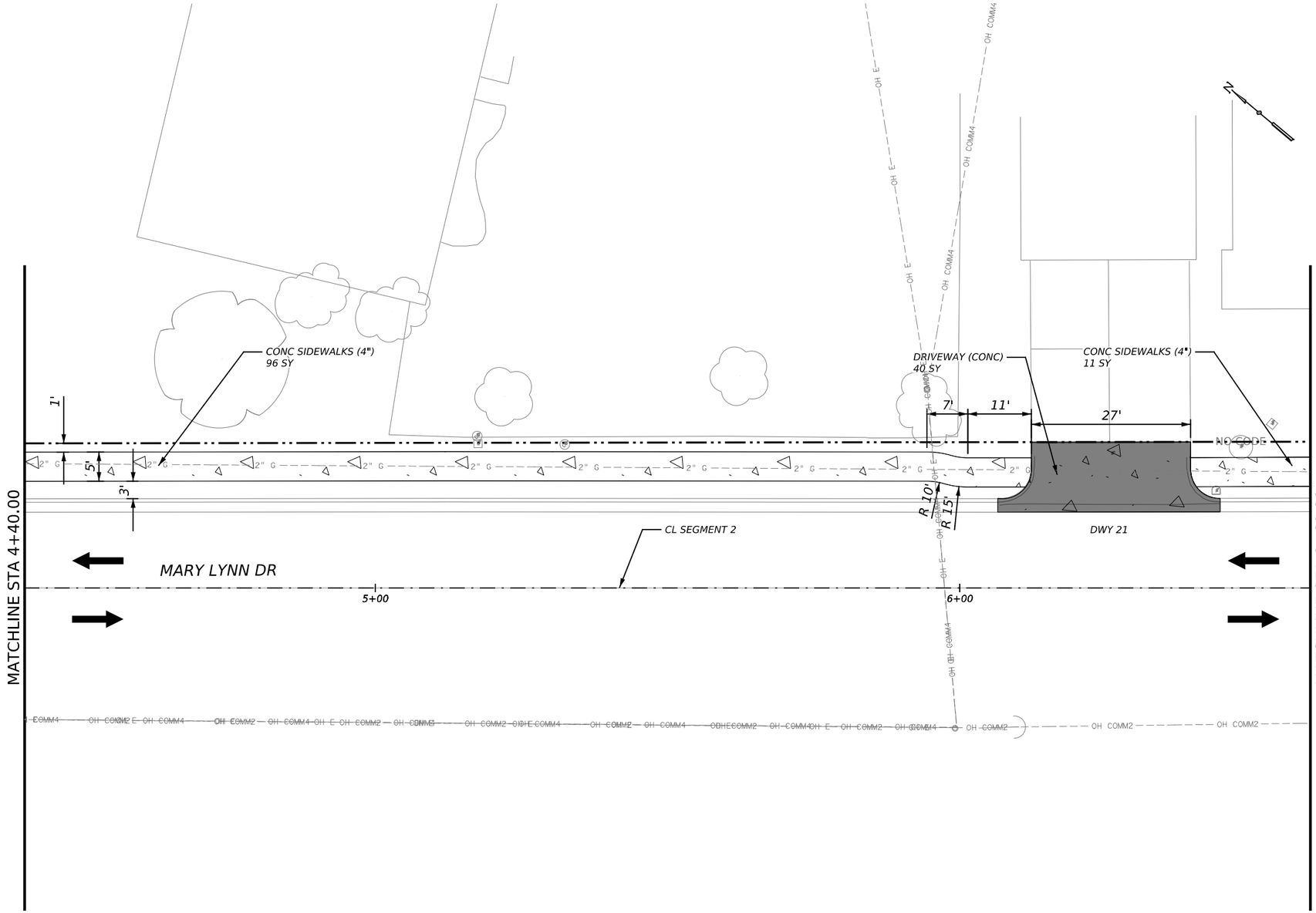
100% PLANS SUBMITTAL

DW:	RW	DR	RD	RW
CK:		CK:	DW:	CK:



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
MARY LYNN
STA 4+40.00 TO STA 6+60.00

SHEET 19 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		105

DATE: 4/12/2024 3:17:27 PM
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100% PLANS SUBMITTAL

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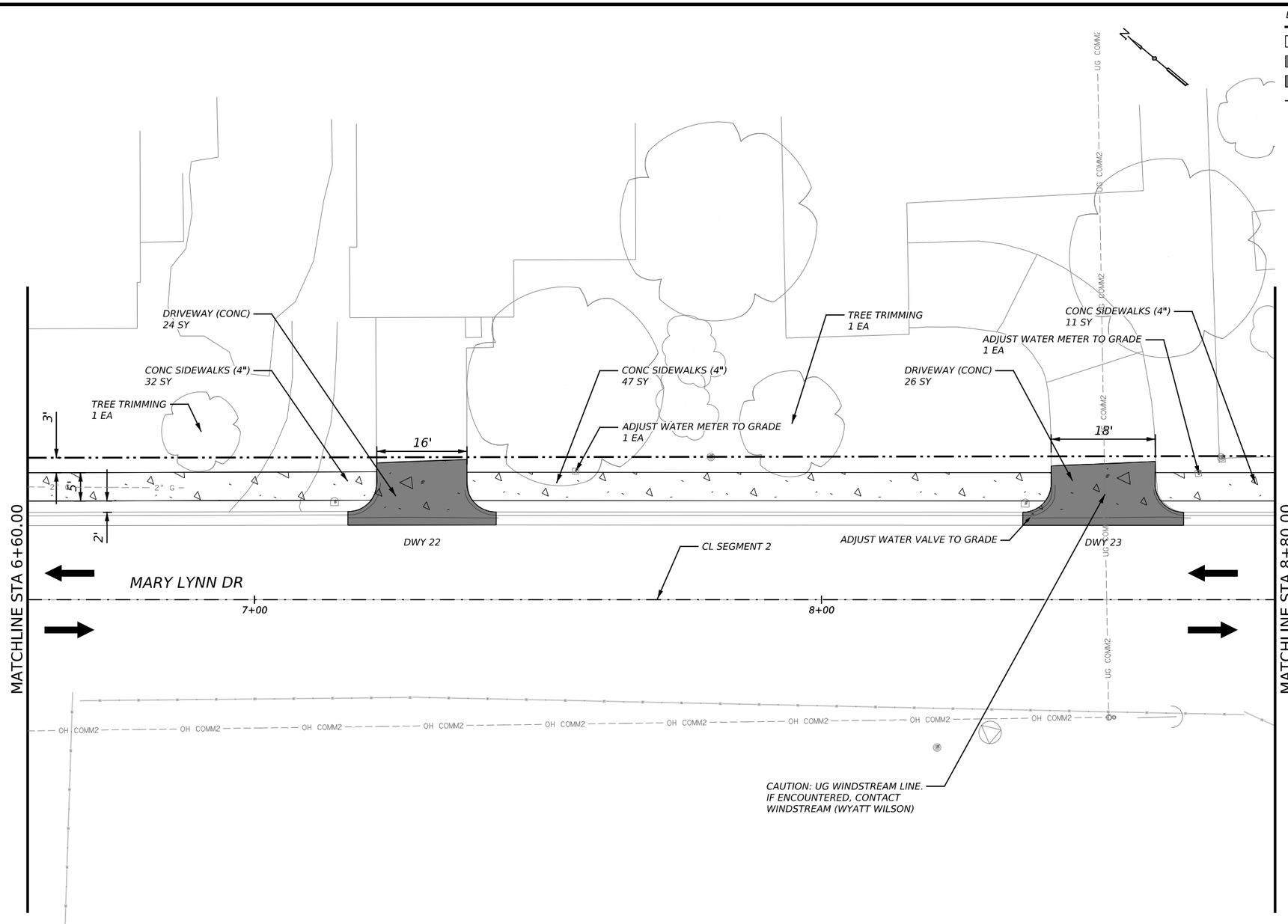
DW:	DR	CK:	RD



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

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13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
MARY LYNN
STA 6+60.00 TO STA 8+80.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		106

DATE: 4/12/2024 3:17:36 PM
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100% PLANS SUBMITTAL

DW:	RW	CK:	RW
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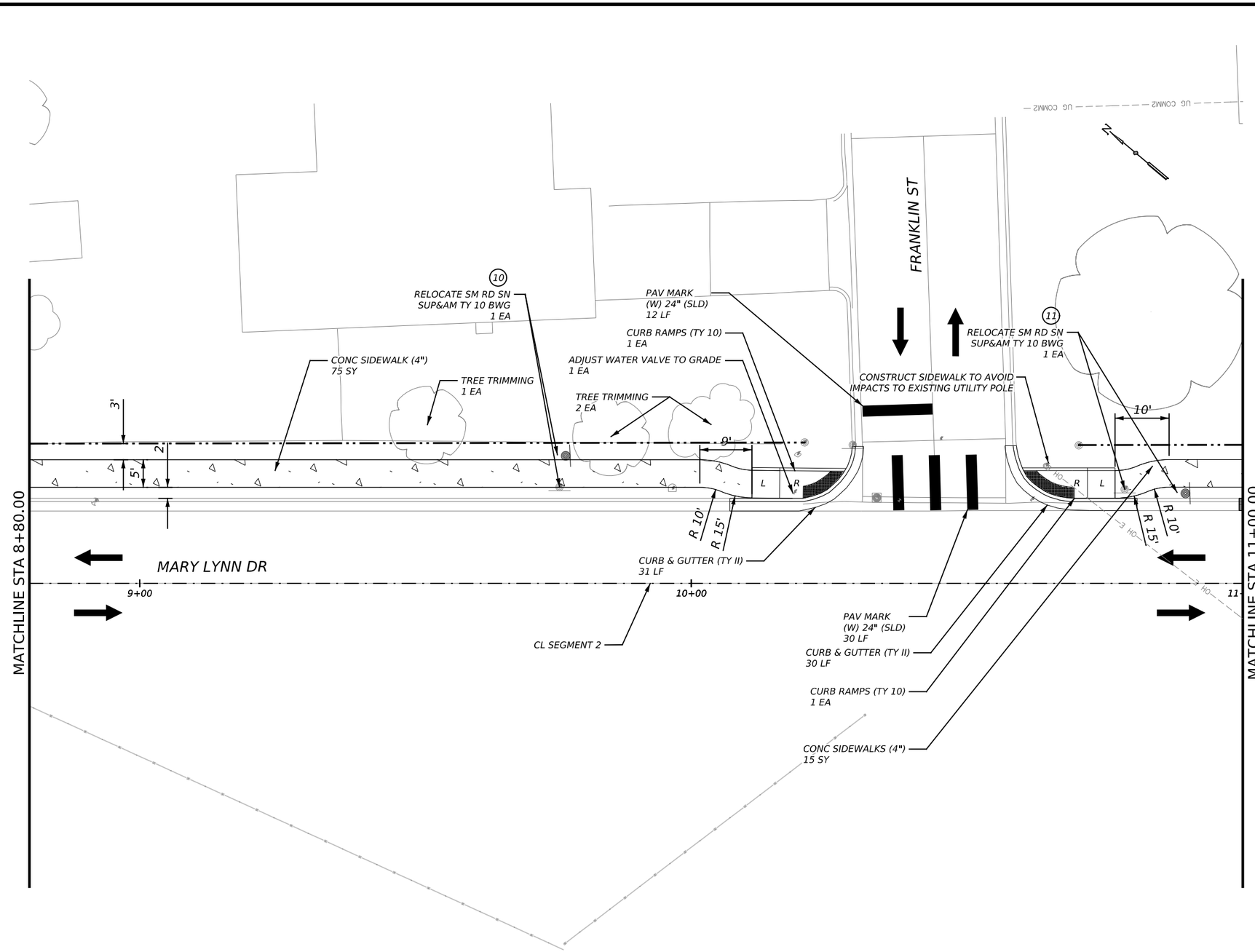

LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
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0 10 20 30 40

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

SIDEWALK PLAN
MARY LYNN
STA 8+80.00 TO STA 11+00.00

SHEET 21 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		107

DATE: 4/12/2024 3:17:46 PM
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100% PLANS SUBMITTAL

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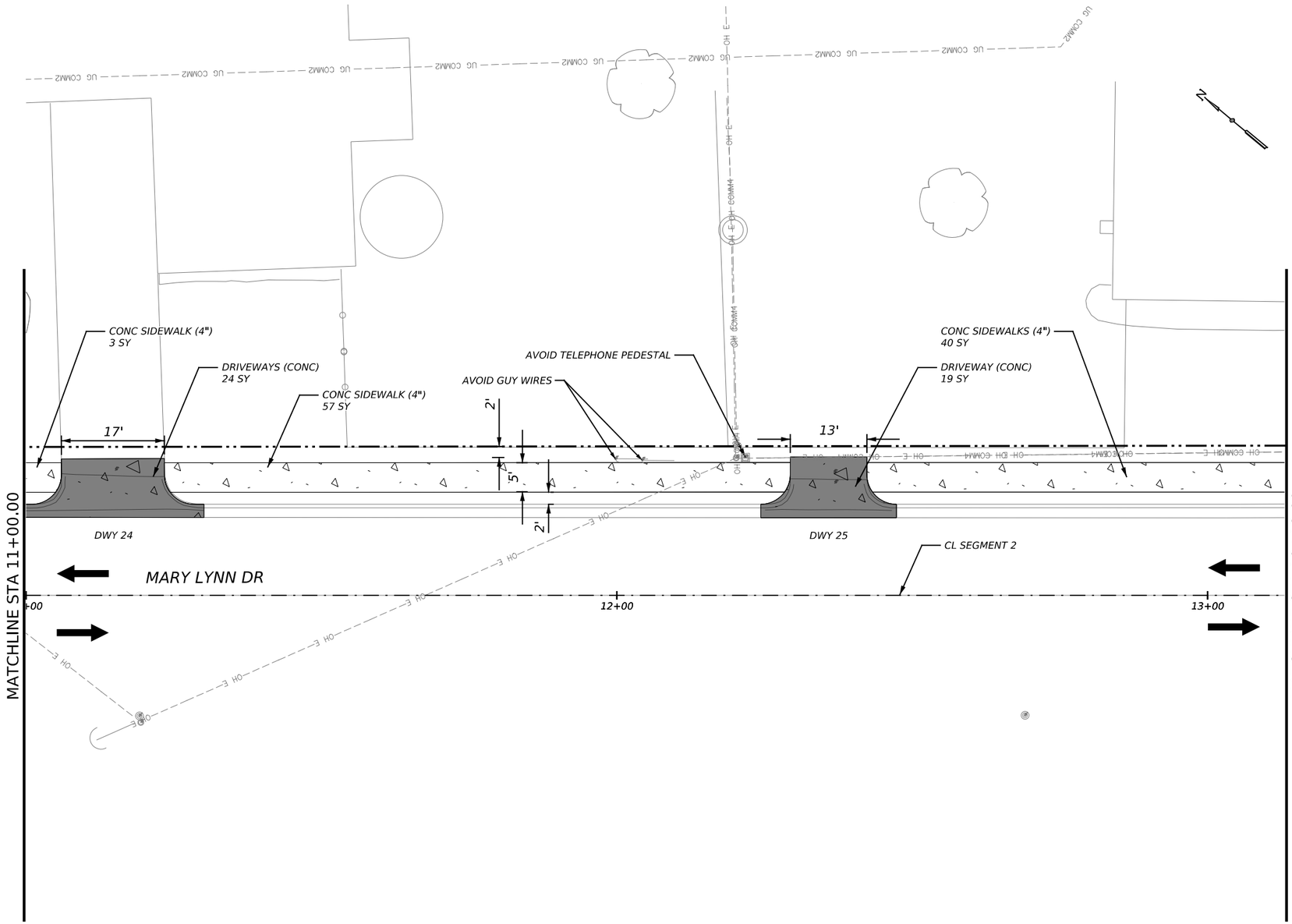

LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG* (ECL)
- *EXISTING POWER POLE*
- *EXISTING SIGN*
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CURB RAMPS

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0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

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STATE OF TEXAS
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Round Rock, Texas 78681

SAFE ROUTES

SIDEWALK PLAN
MARY LYNN
STA 11+00.00 TO STA 13+13.00

SHEET 22 OF 47

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		108

DATE: 4/12/2024 3:17:55 PM
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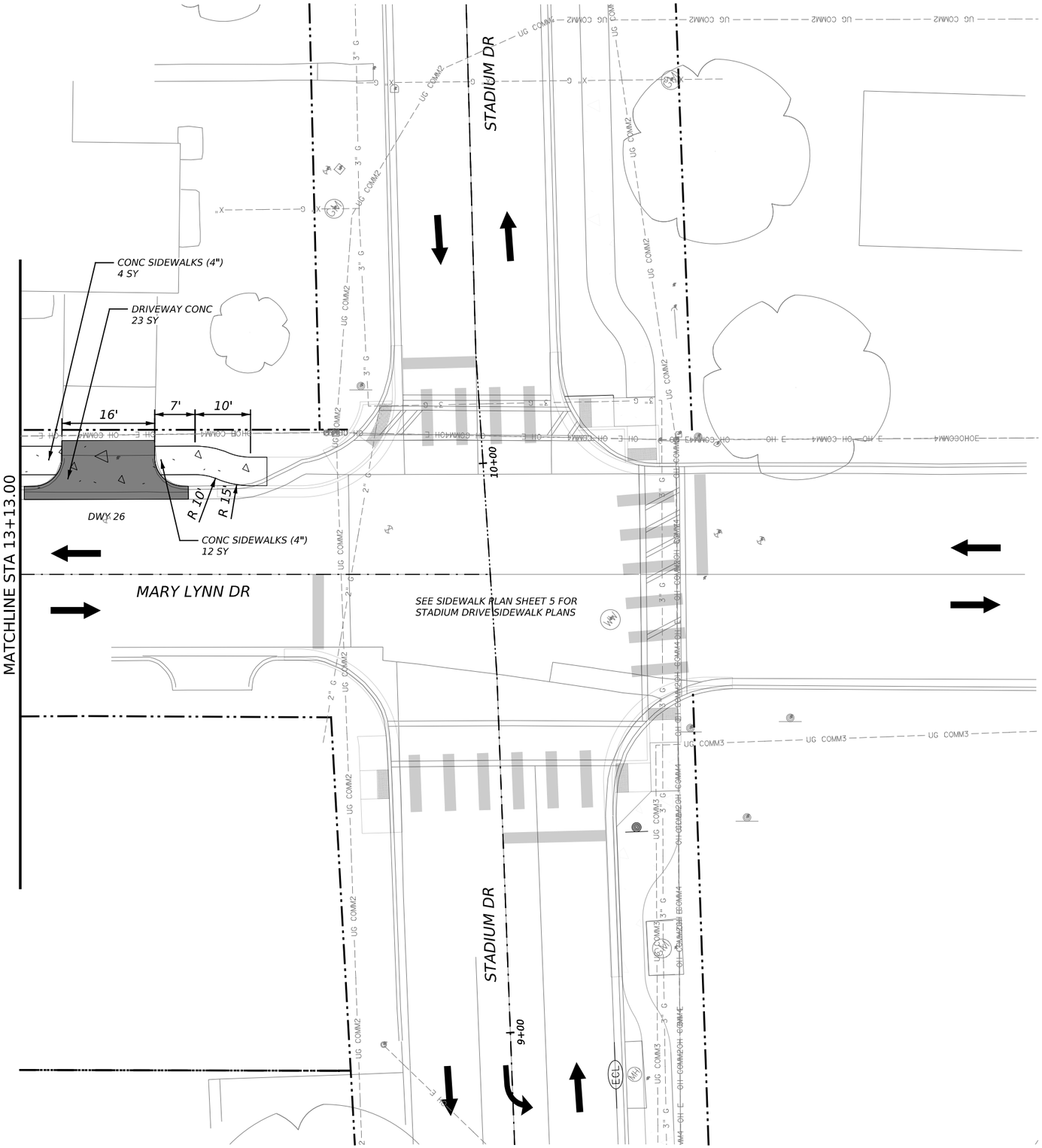
100% PLANS SUBMITTAL

DW:	RW	CK:	DR	DW:	RD	CK:	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
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- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

1. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*
2. *TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.*
3. *SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.*
4. *PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.*
5. *SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.*
6. *ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).*
7. *"REFL PAV MRK" CALLOUT ABOVE INCLUDE QUANITITES FOR REL PAV MRK TY I, REFL PAV MRK TY II AND PAV SURF PREP FOR MAKINGS.*
8. *LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.*
9. *PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.*
10. *SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.*
11. *LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.*
12. *ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.*
13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

SIDEWALK PLAN
MARY LYNN
STA 13+13.00 TO END SEG 2

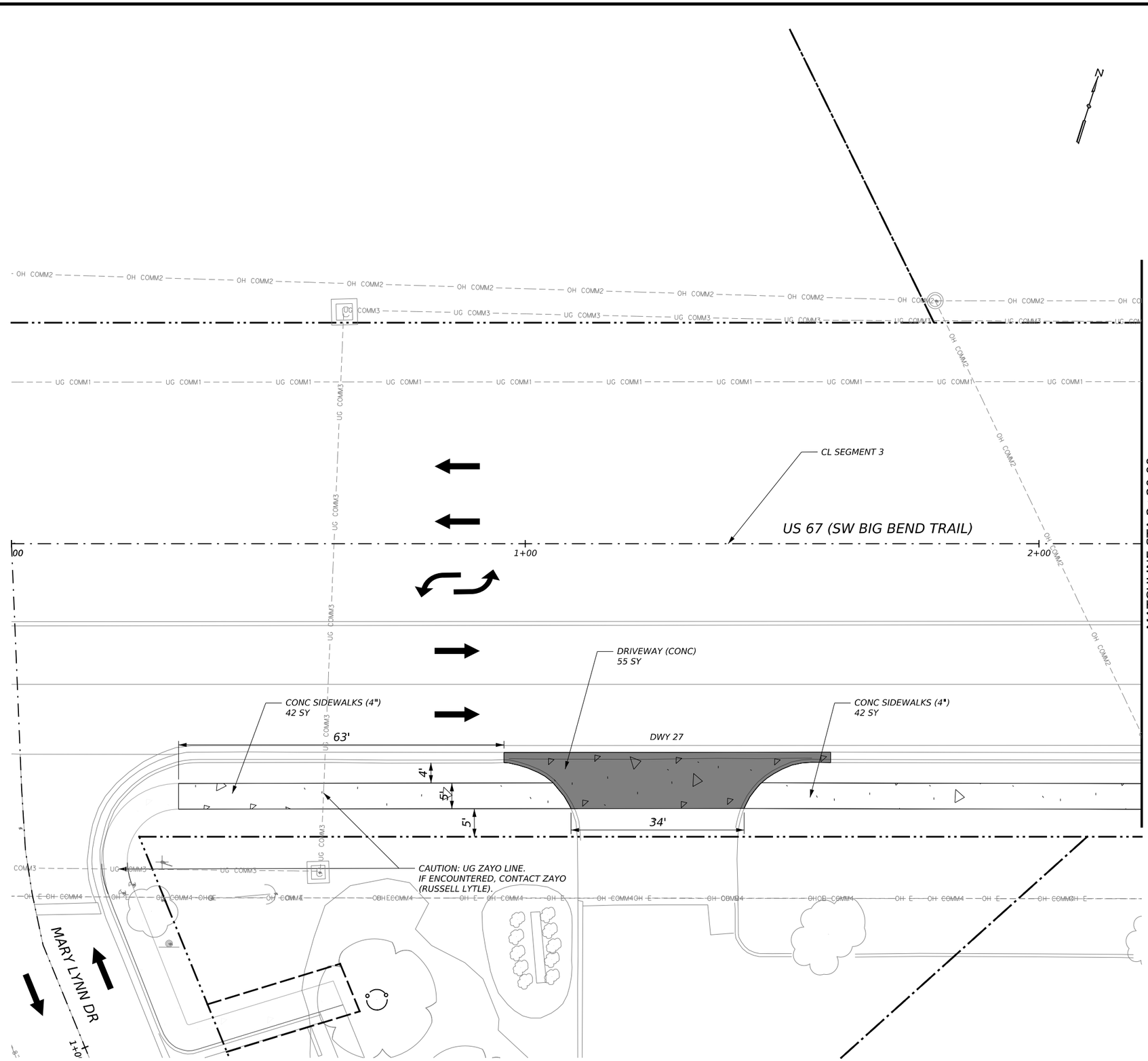
SHEET 23 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		109

DATE: 4/12/2024 3:18:05 PM
FILE: GR_SRTS_SDWK23.dgn

100% PLANS SUBMITTAL

DW:	RW	CK:	RW
DW:	DR	CK:	RD



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

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CURB RAMPS

R: RAMP
L: LANDING
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0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
BEGIN SEG 3
TO STA 2+20.00

SHEET 24 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		110

DATE: 4/12/2024 3:18:14 PM
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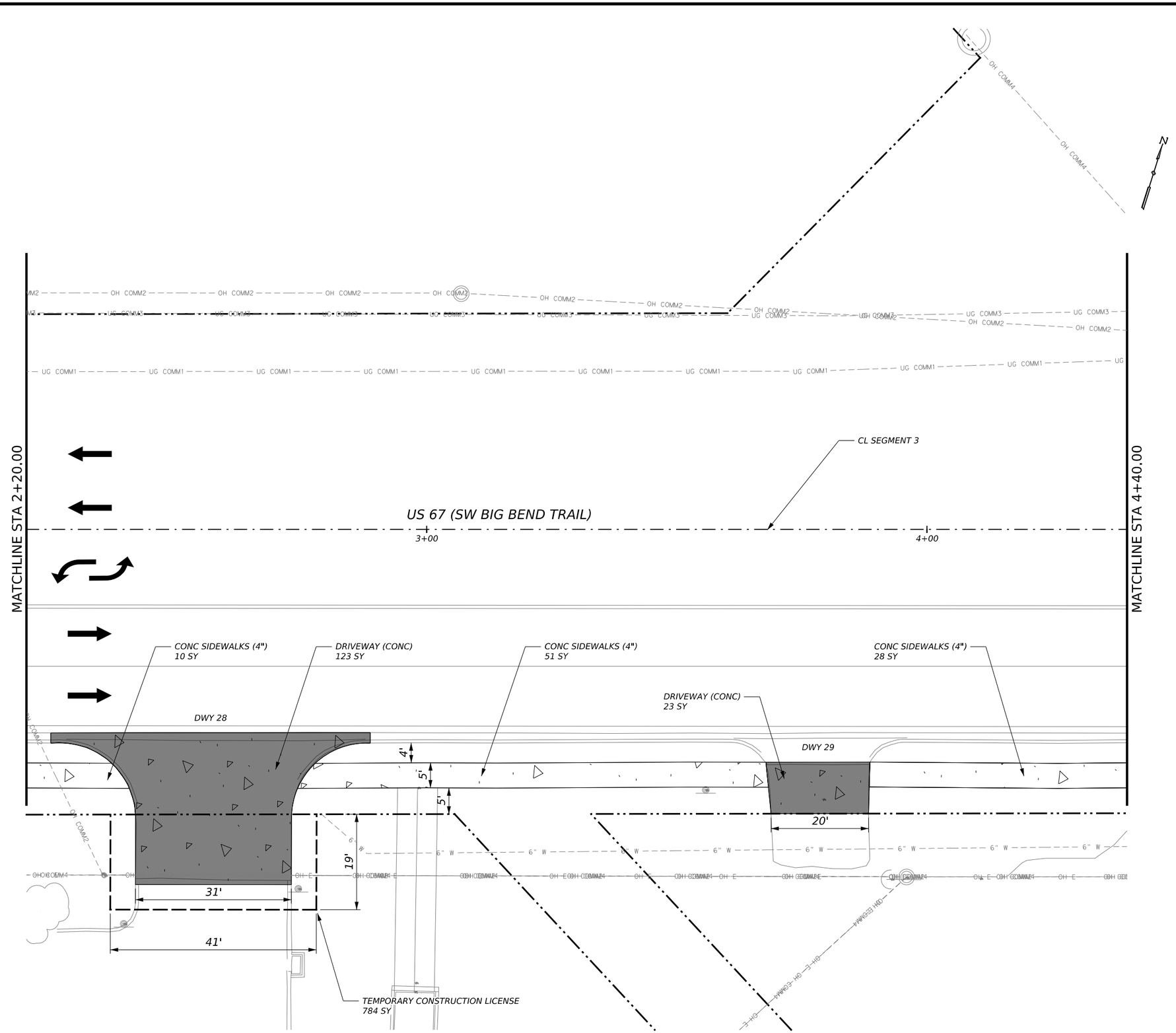
100% PLANS SUBMITTAL

DW:	RW	CK:	RW
DW:	RD	CK:	DR



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
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CURB RAMPS

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0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
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710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

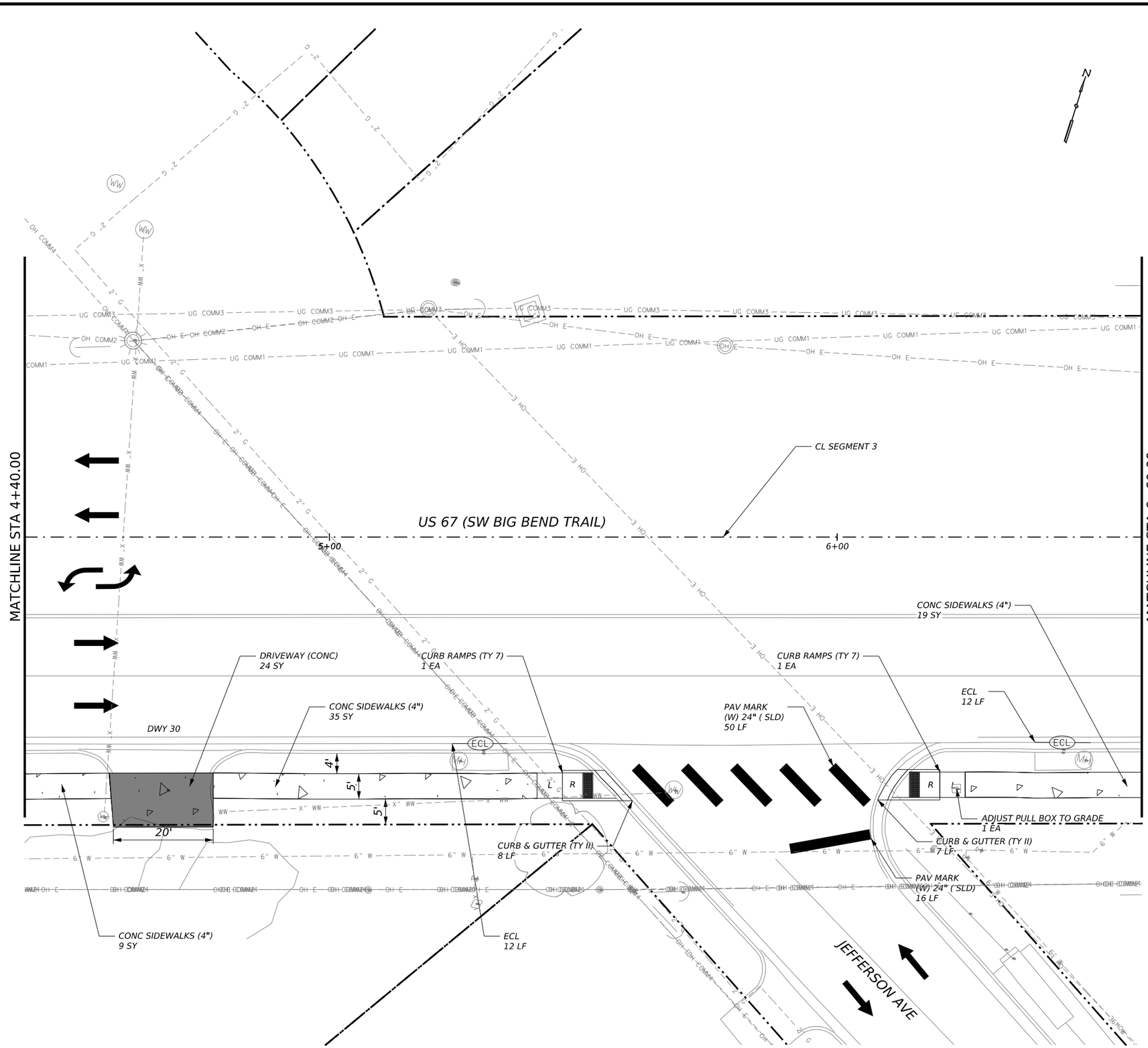
SIDEWALK PLAN
US 67
STA 2+20.00 TO STA 4+40.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		111

DATE: 4/12/2024 3:18:24 PM
FILE: GR_SRTS_SDWK23.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
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0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 4+40.00 TO STA 6+60.00

SHEET 26 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		112

DATE: 4/12/2024 3:18:33 PM
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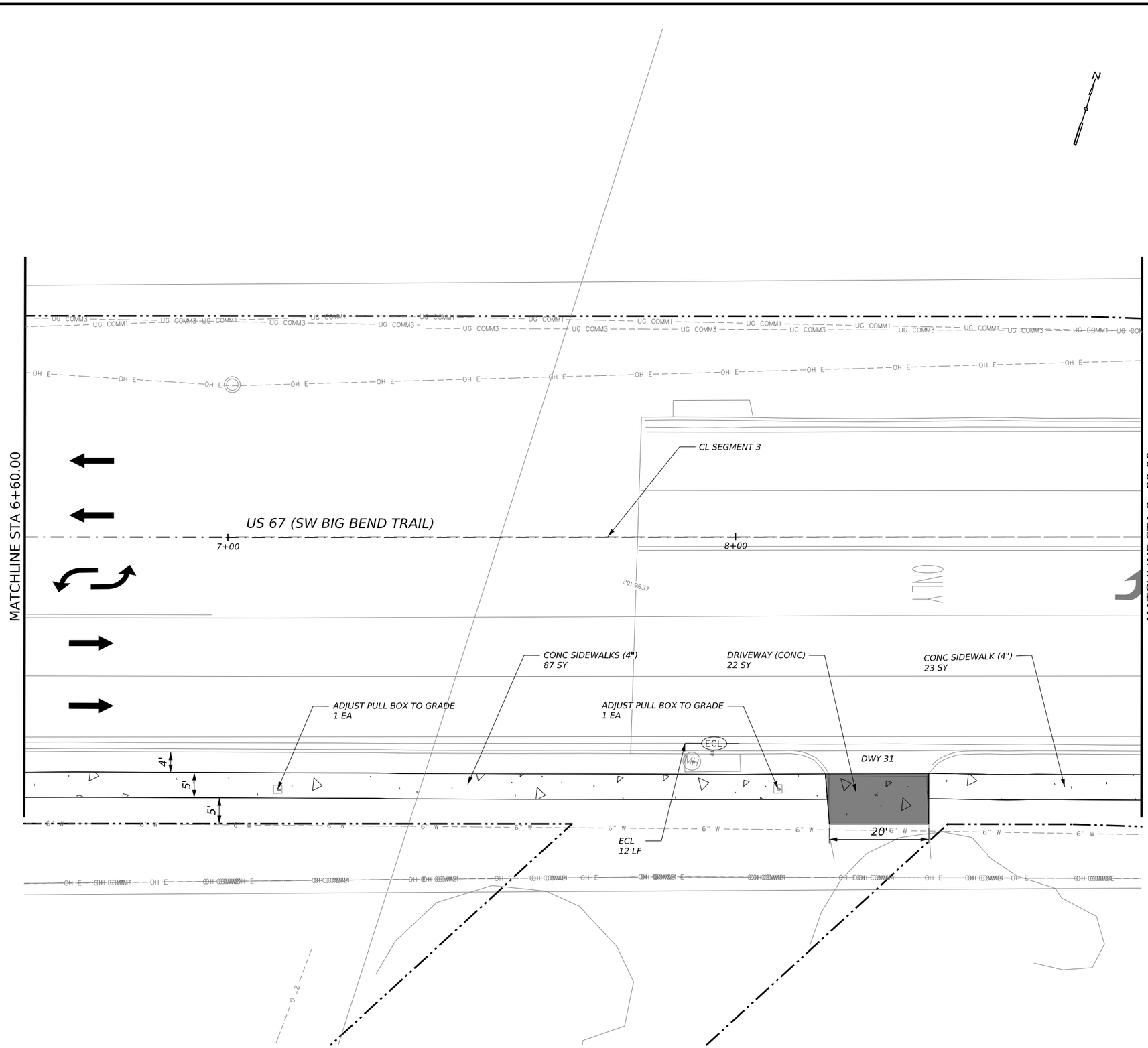
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 6+60.00 TO STA 8+80.00

SHEET 27 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		113

DATE: 4/12/2024 3:18:42 PM
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100% PLANS SUBMITTAL

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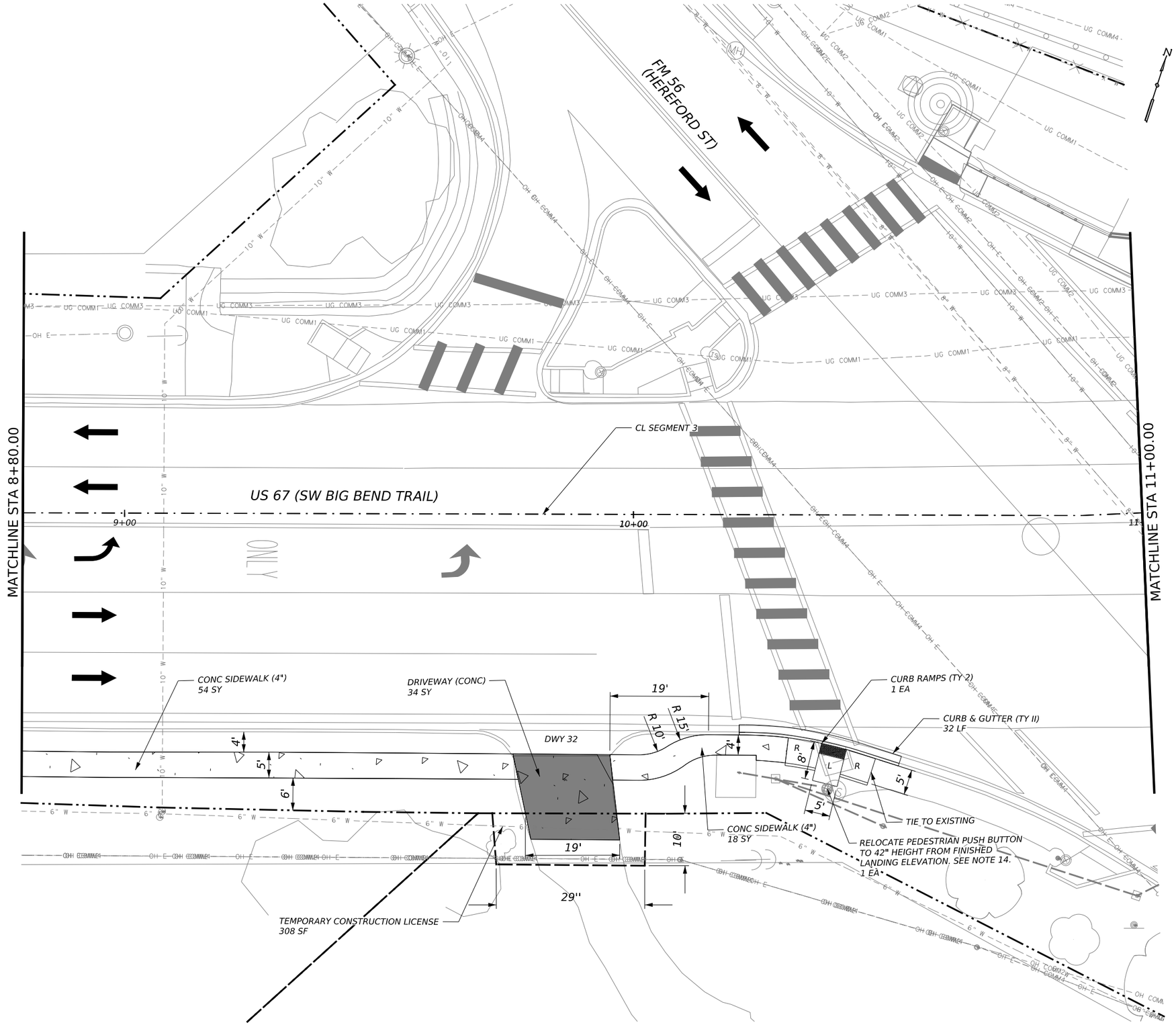
DW:	DR	CK:	RD



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
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13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.
14. ENSURE PUSH BUTTON REACH RANGE FROM CLEAR SPACE IS LESS THAN OR EQUAL TO 10". USE PUSH BUTTON EXTENDERS TO ACHIEVE ADA COMPLIANCE IF NECESSARY.

0 10 20 30 40

SCALE IN FEET
1" = 20'

CURB RAMPS

R: RAMP
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NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
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PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 8+80.00 TO STA 11+00.00

SHEET 28 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		114

DATE: 4/12/2024 3:18:52 PM
FILE: GR_SRTS_SDWK28.dgn

100% PLANS SUBMITTAL

DN: RW | CK: DR | DW: RD | CK: RW

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
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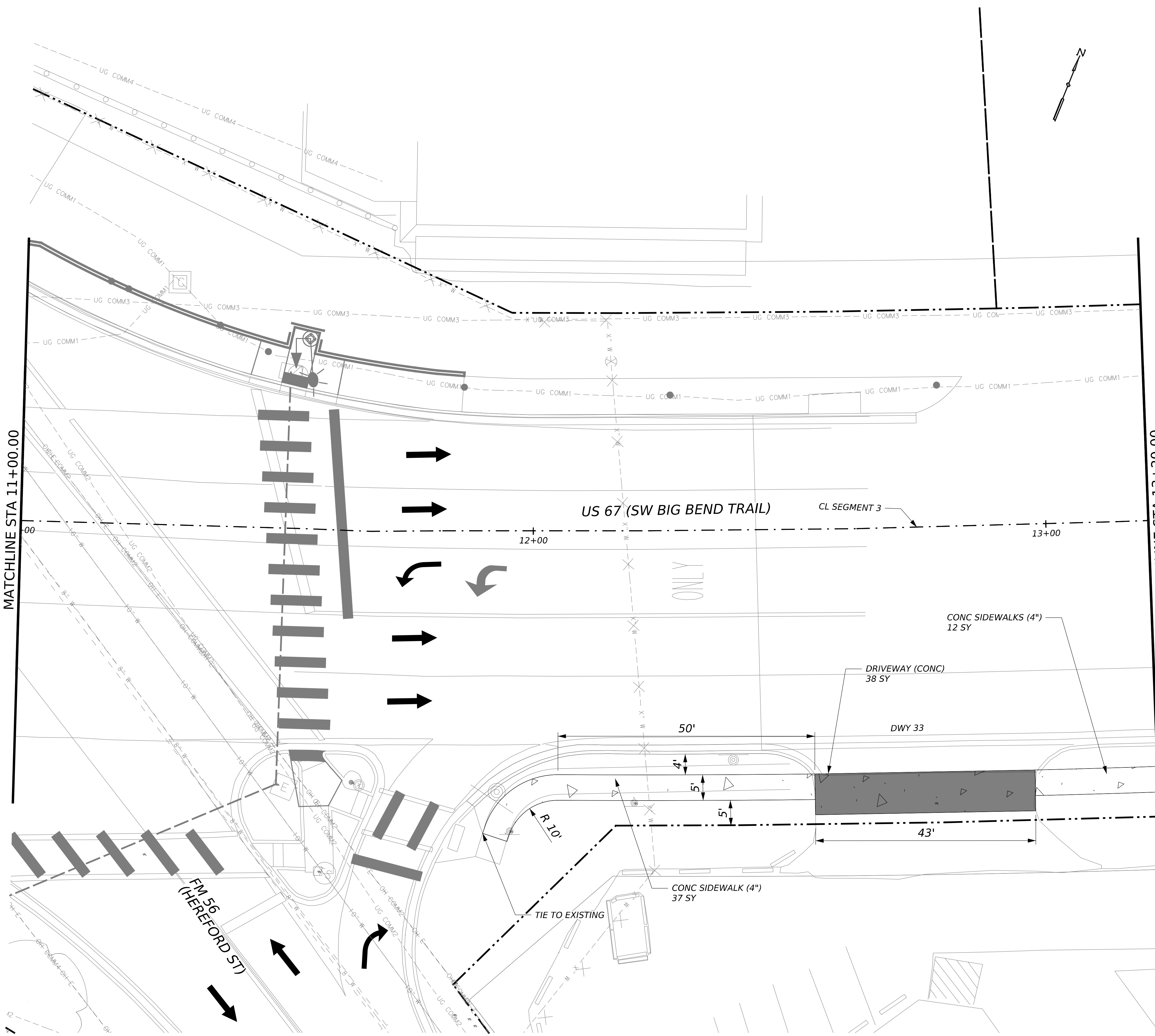

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710 Hester Crossing, Suite 150
Round Rock, Texas 78681

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SAFE ROUTES

SIDEWALK PLAN
US 67
STA 11+00.00 TO STA 13+20.00

SHEET 29 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		115

DATE: 4/12/2024 3:19:02 PM
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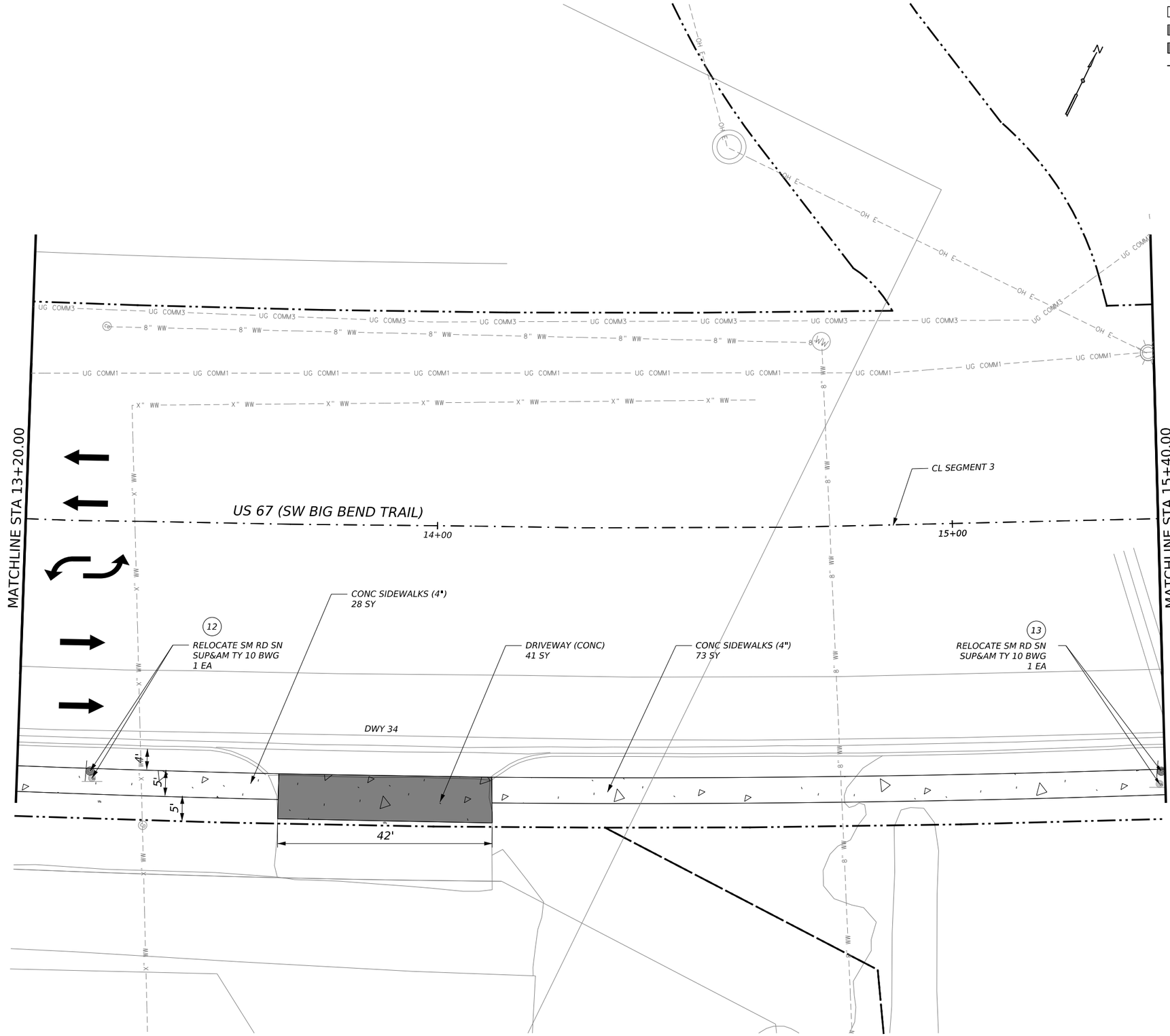
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
2. TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.
3. SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.
4. PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.
5. SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.
6. ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
7. "REFL PAV MRK" CALLOUT ABOVE INCLUDE QUANITITES FOR REL PAV MRK TY I, REFL PAV MRK TY II AND PAV SURF PREP FOR MAKINGS.
8. LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.
9. PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.
10. SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.
11. LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.
12. ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.
13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 13+20.00 TO STA 15+40.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		116

DATE: 4/12/2024 3:19:11 PM
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100% PLANS SUBMITTAL

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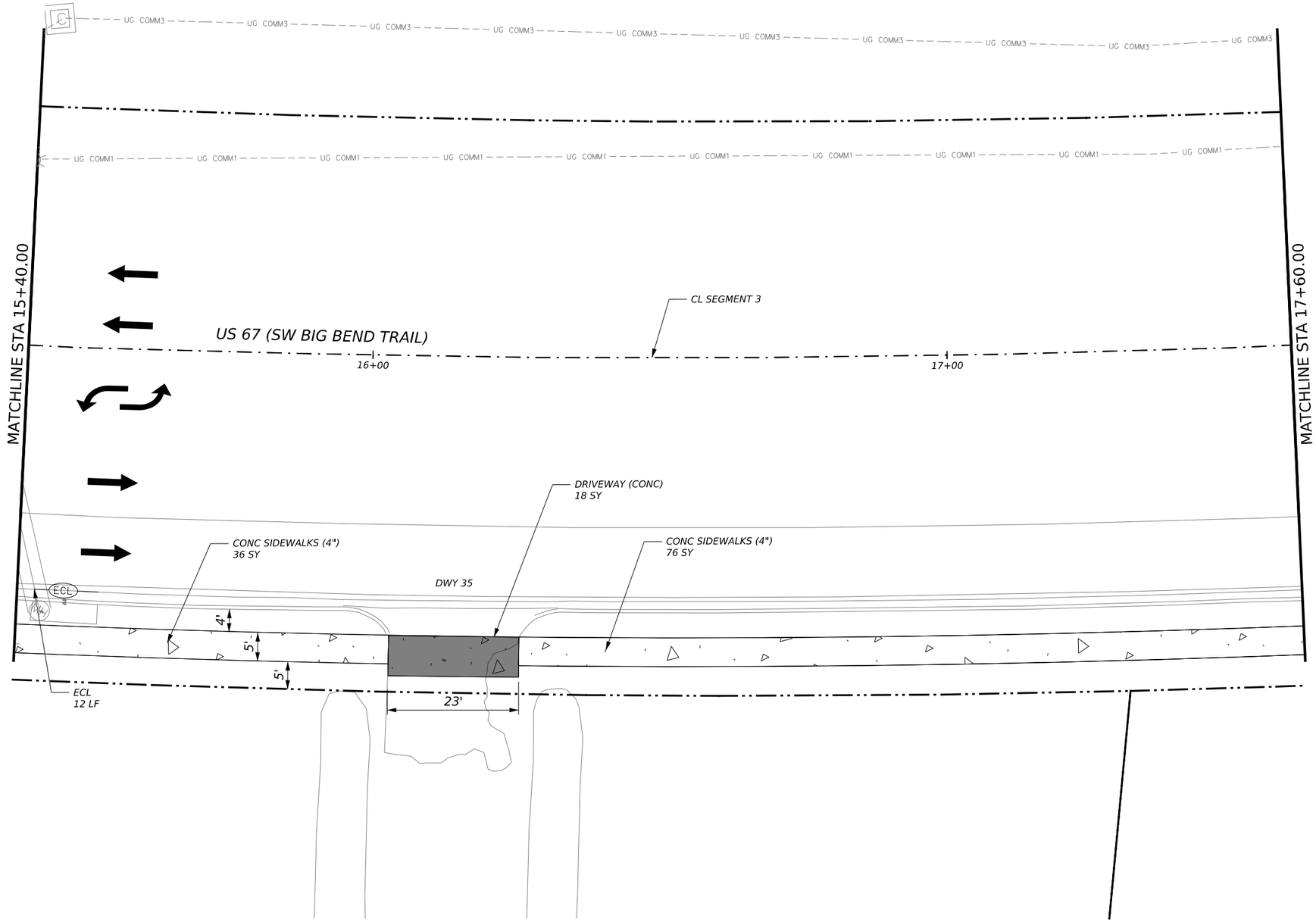
RW		DR		RD	RW



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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PROFESSIONAL ENGINEER

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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 15+40.00 TO STA 17+60.00

SHEET 31 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		117

DATE: 4/12/2024 3:19:20 PM
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100% PLANS SUBMITTAL

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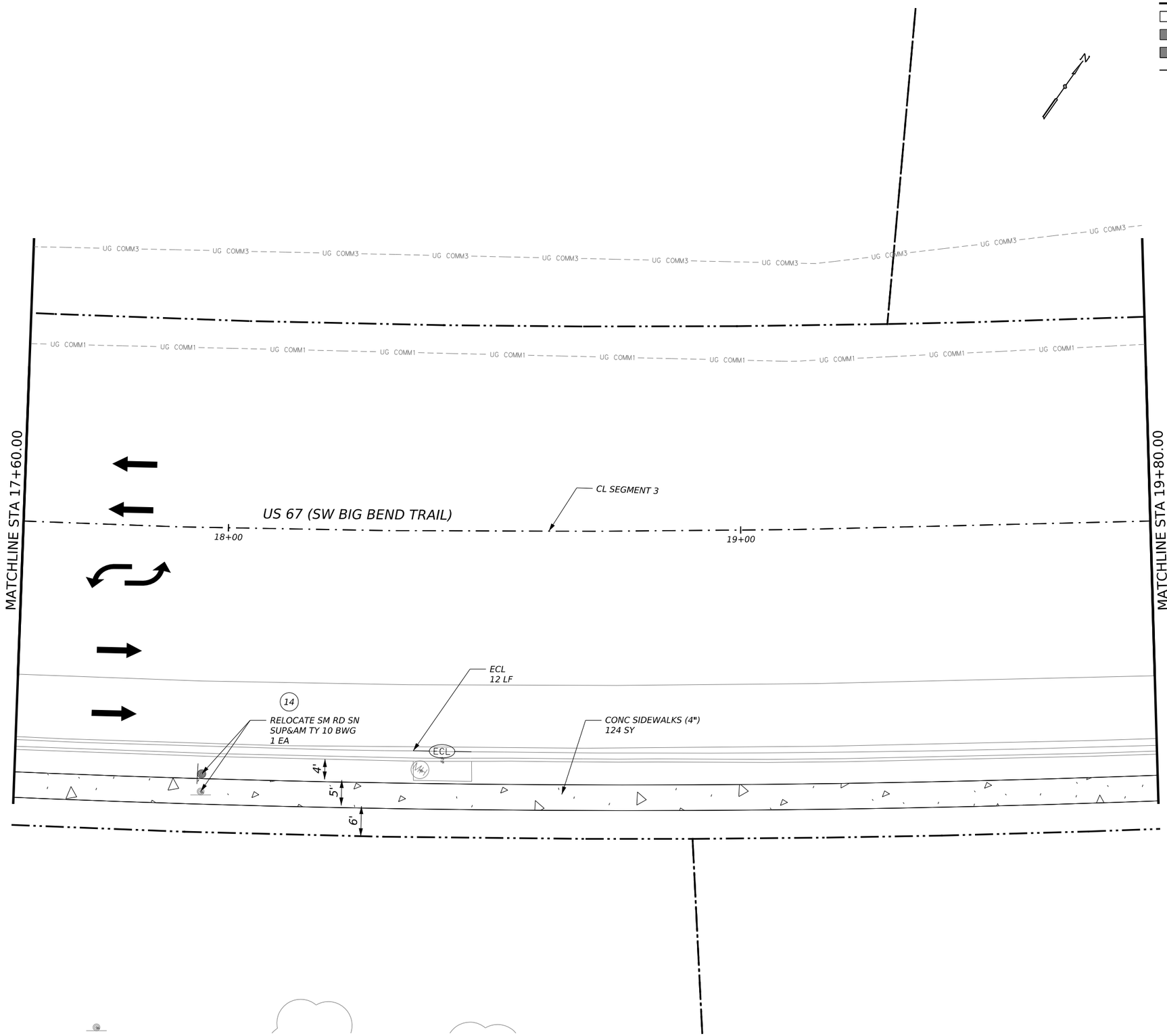
RW		DR	RD	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
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Round Rock, Texas 78681

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Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 17+60.00 TO STA 19+80.00

SHEET 32 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		118

DATE: 4/12/2024 3:19:30 PM
FILE: GR_SRTS_SDWK32.dgn

100% PLANS SUBMITTAL

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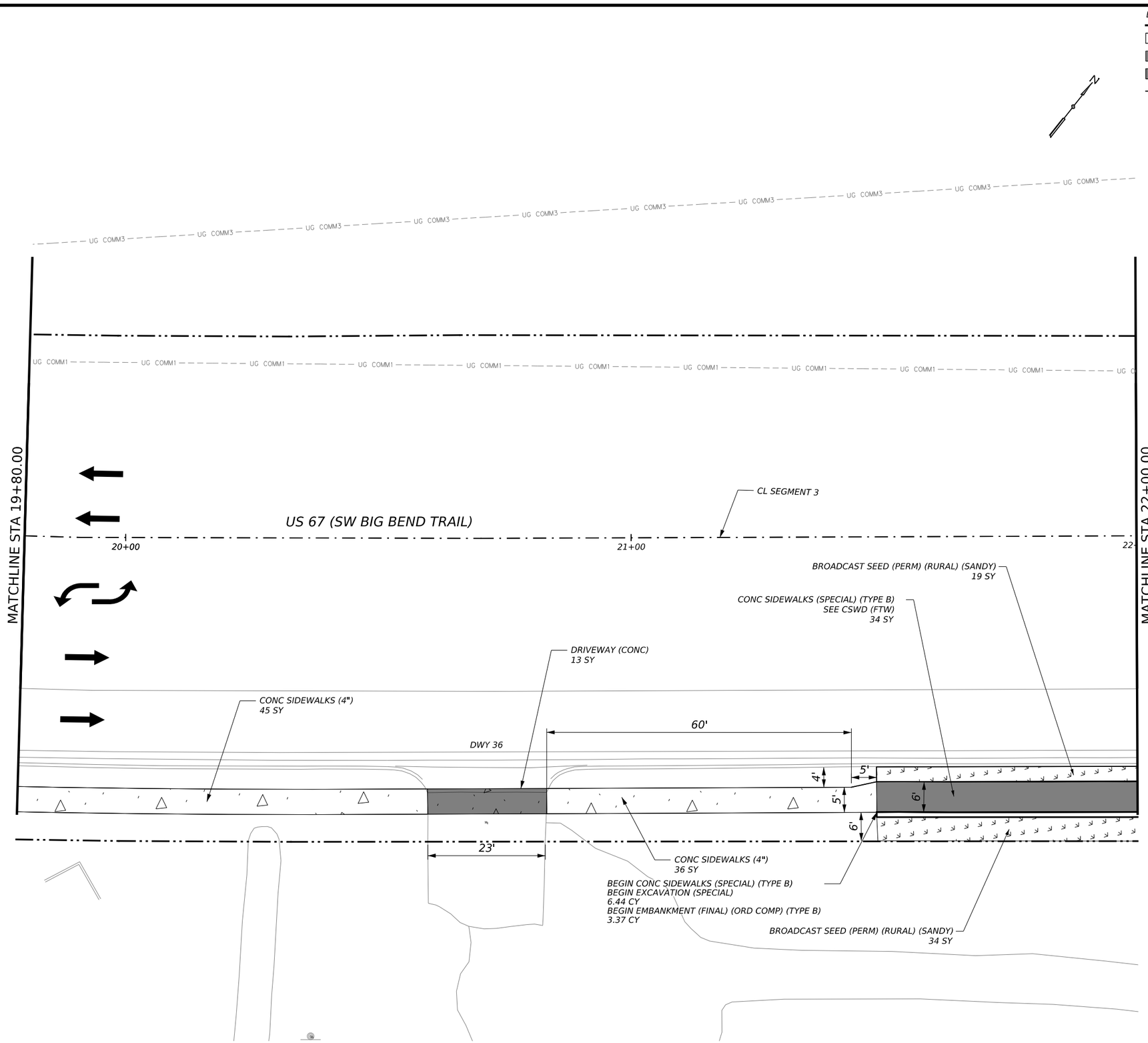
RW	DR	RD	RW	



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 19+80.00 TO STA 22+00.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		119

DATE: 4/12/2024 3:19:40 PM
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100% PLANS SUBMITTAL

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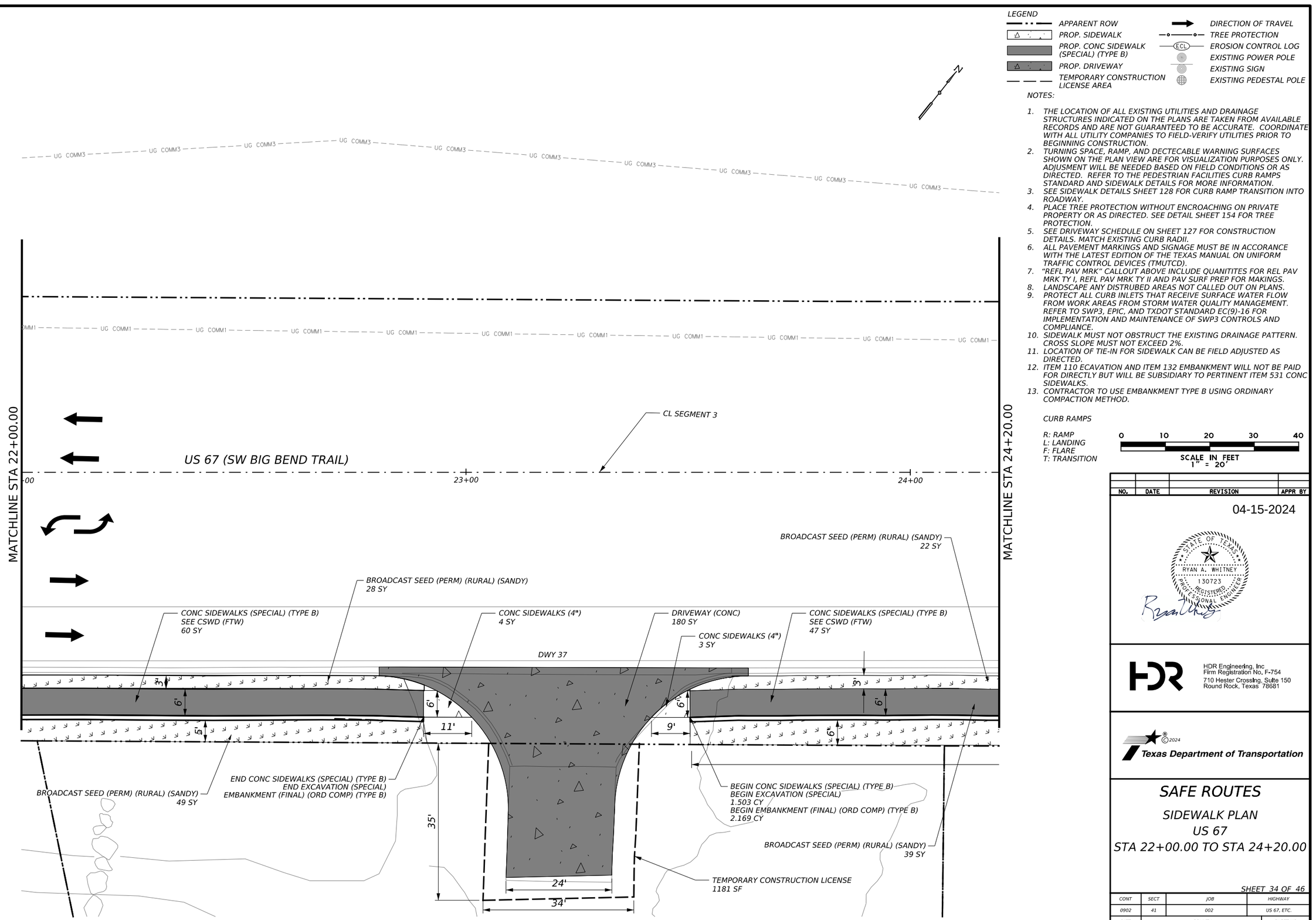

LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG* (ECL)
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

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CURB RAMPS

R: RAMP
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F: FLARE
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0 10 20 30 40
SCALE IN FEET
1" = 20'

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Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 22+00.00 TO STA 24+20.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		120

DATE: 4/12/2024 3:19:49 PM
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100% PLANS SUBMITTAL

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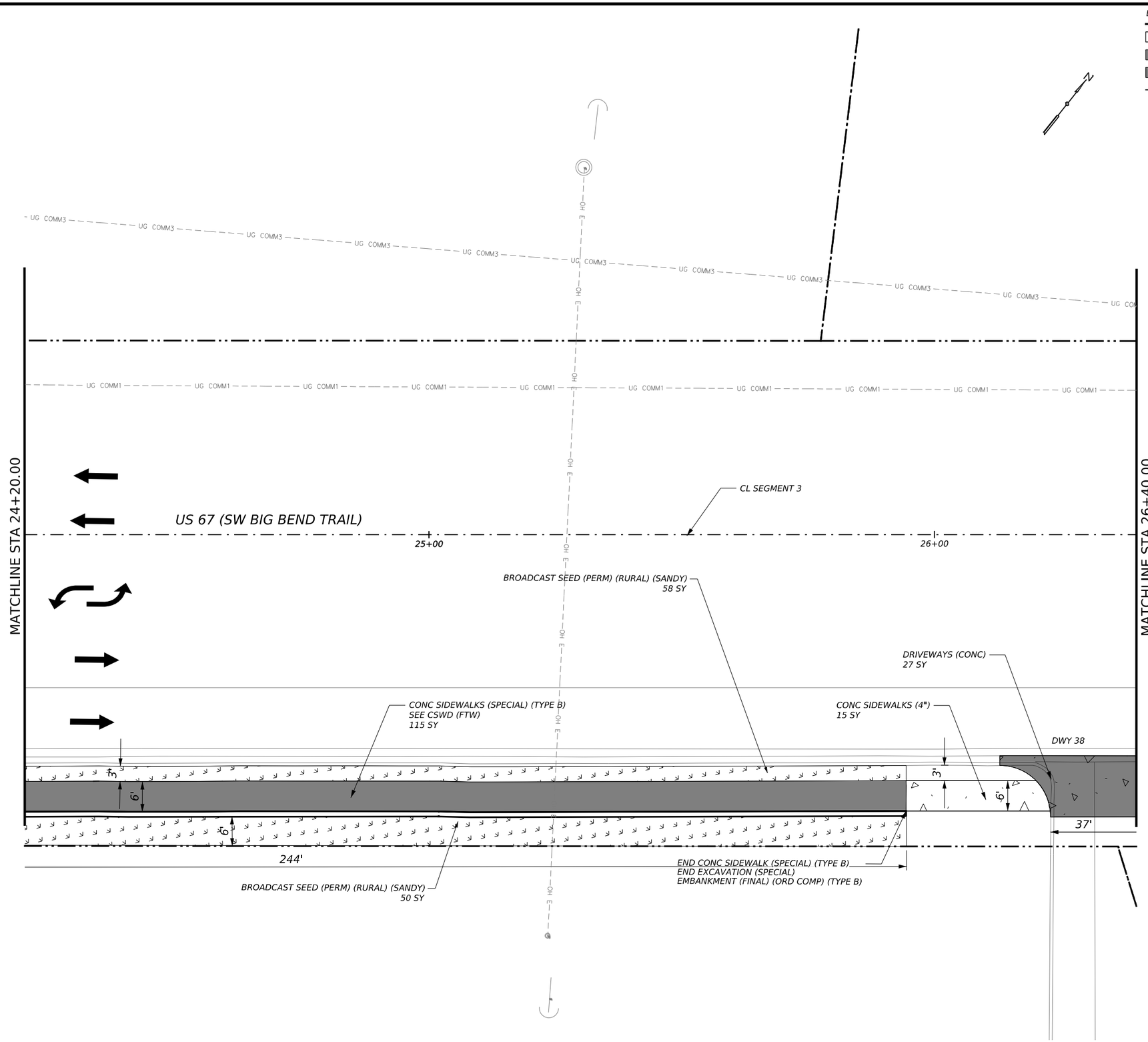

LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
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CURB RAMPS

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Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 24+20.00 TO STA 26+40.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		121

DATE: 4/12/2024 3:19:58 PM
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100% PLANS SUBMITTAL

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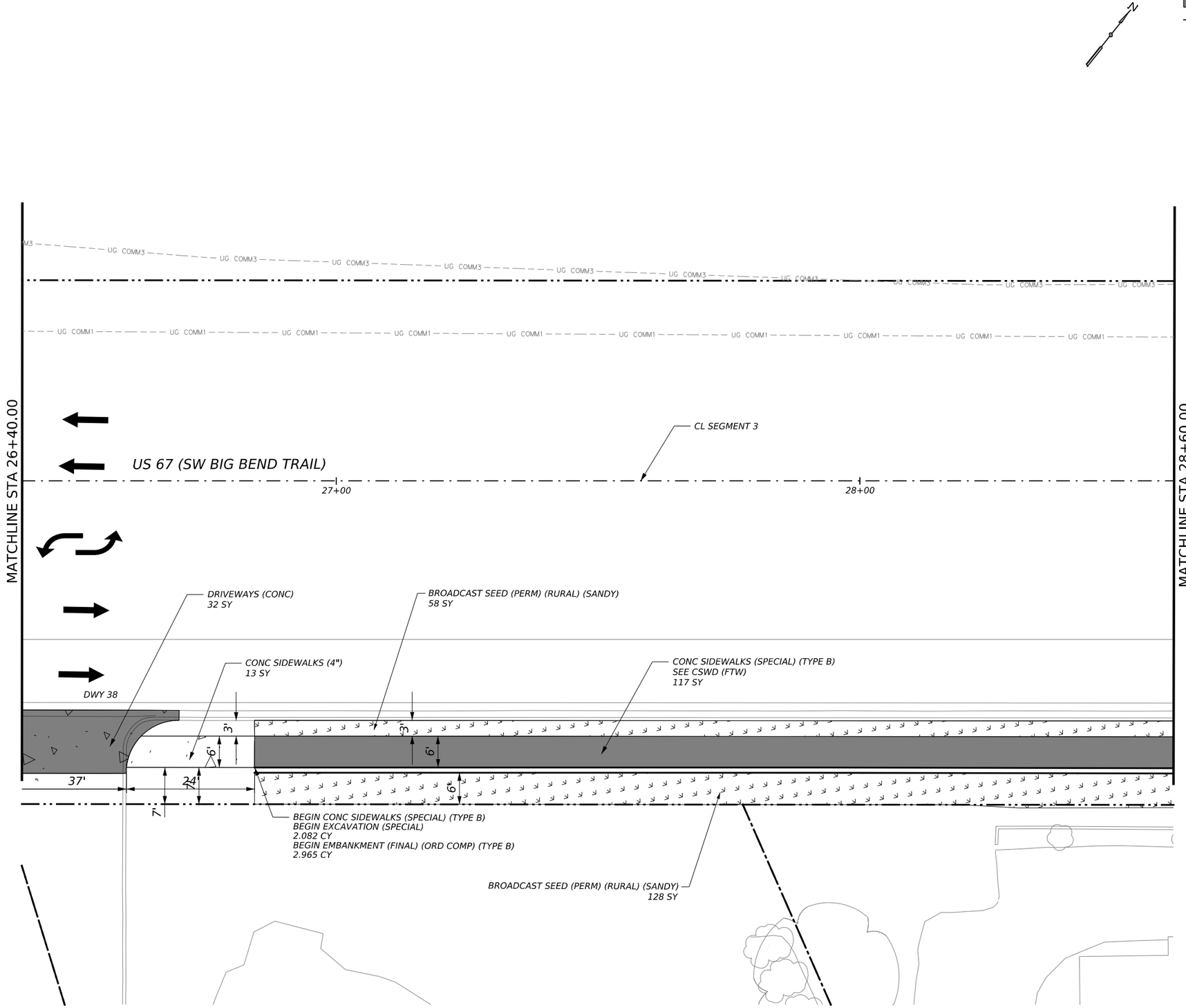
RW	DR	RD	RW



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
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8. LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.
9. PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.
10. SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.
11. LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.
12. ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.
13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 26+40.00 TO STA 28+60.00

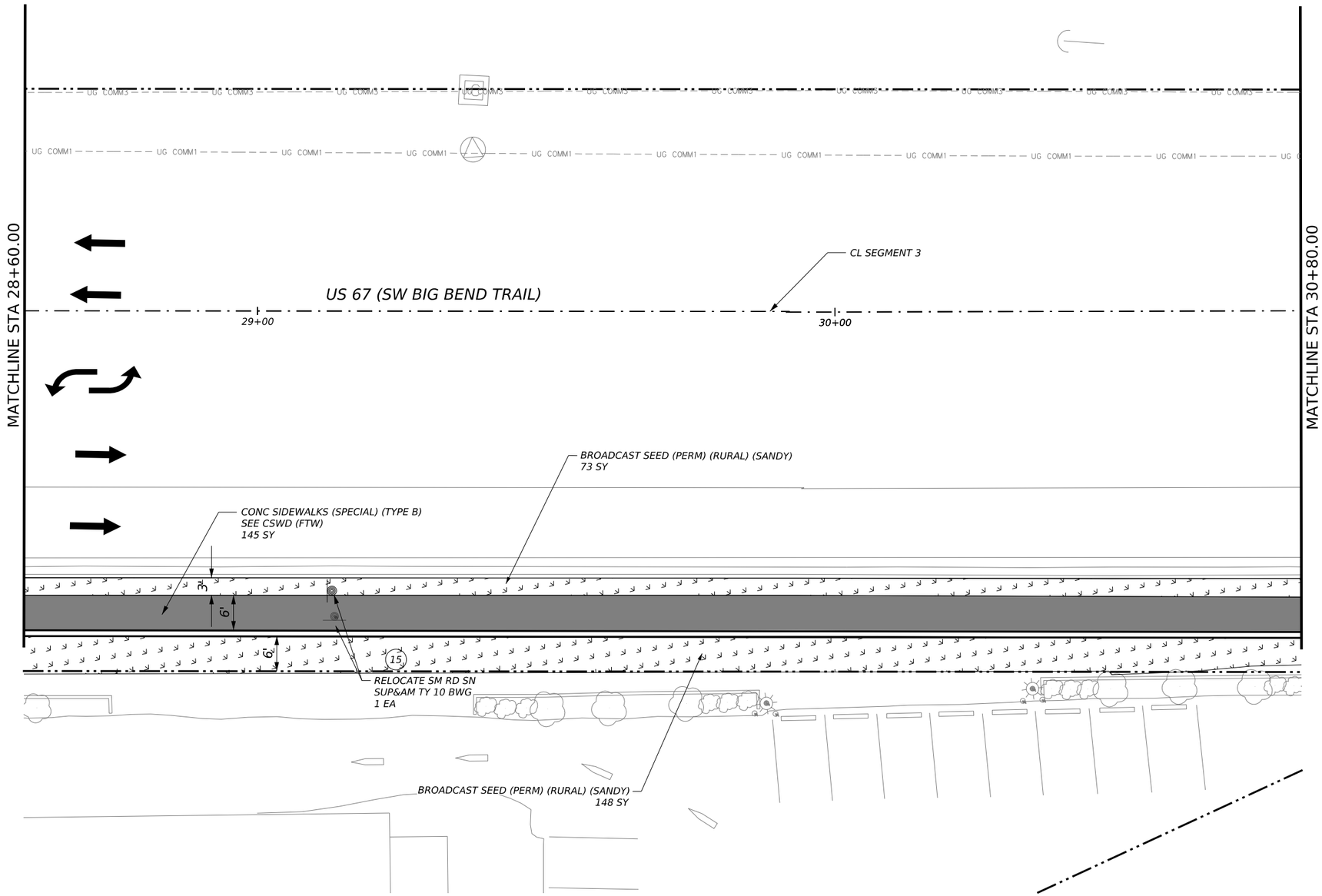
SHEET 36 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		122

DATE: 4/12/2024 3:20:07 PM
FILE: GR_SRTS_SDWK36.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	RW	DR	RD



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG (ECL)
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

1. THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
2. TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.
3. SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.
4. PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.
5. SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.
6. ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
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130723
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PROFESSIONAL ENGINEER

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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 28+60.00 TO STA 30+80.00

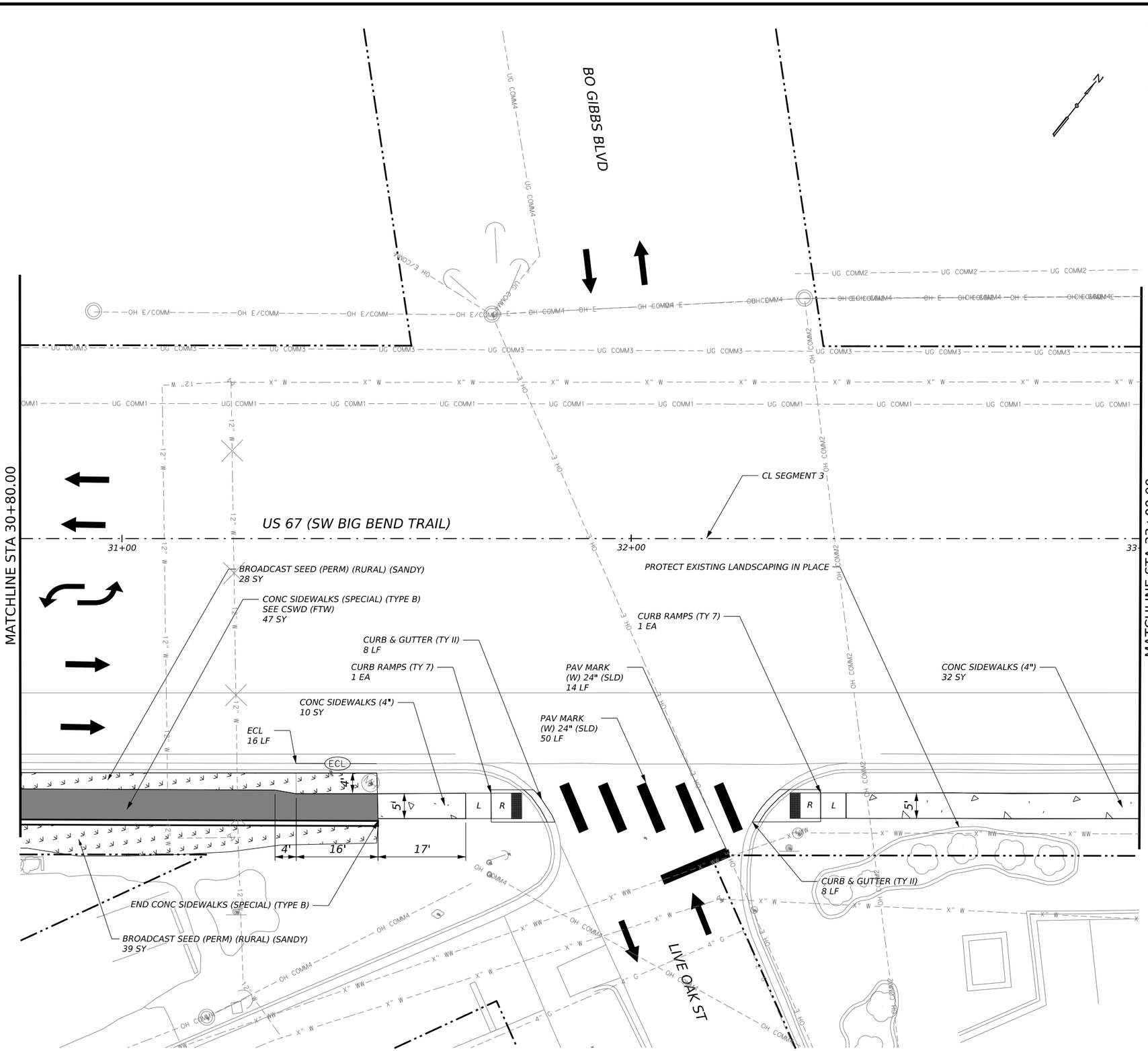
SHEET 37 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		123

DATE: 4/12/2024 3:20:17 PM
FILE: GR_SRTS_SDWK37.dgn

100% PLANS SUBMITTAL

DW:	RW	CK:	RW
DW:	DR	CK:	RD



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
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REGISTERED PROFESSIONAL ENGINEER

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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 30+80.00 TO STA 33+00.00

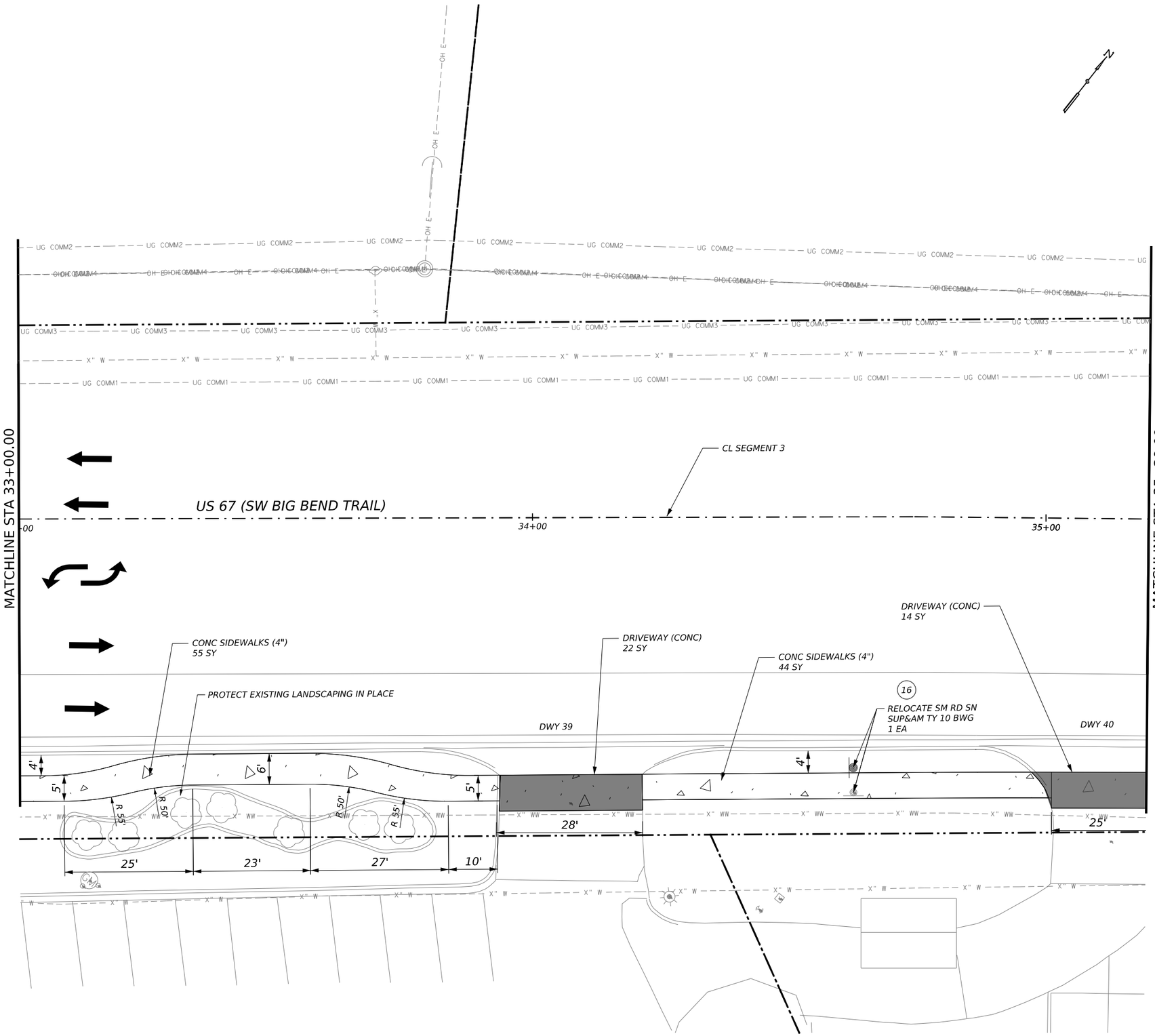
SHEET 38 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		124

DATE: 4/12/2024 3:20:27 PM
FILE: GR_SRTS_SDWK38.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:	
RW	RW	RD	DR	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
PROFESSIONAL REGISTERED ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 33+00.00 TO STA 35+20.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		125

DATE: 4/12/2024 3:20:36 PM
FILE: GR_SRTS_SDWK39.dgn

100% PLANS SUBMITTAL

DW:	RW	CK:	RW
DW:	DR	CK:	RD

STATION: 0+00.00
OFFSET: 0.00' RT

MATCHLINE STA 35+20.00

MATCHLINE STA 37+40.00

US 67 (SW BIG BEND TRAIL)

CL SEGMENT 3

36+00

37+00

DRIVEWAY (CONC)
5 SY

DWY 40

CONC SIDEWALKS (4")
31 SY

DRIVEWAY (CONC)
25 SY

DWY 41

17

RELOCATE SM RD SN
SUP&AM TY 10 BWG
1 EA

CONC SIDEWALKS (4")
33 SY

DRIVEWAY (CONC)
20 SY

DWY 42

CONC SIDEWALKS (4")
22 SY

5'

5'

25'

31'

25'

CAUTION: HAND DIG NEAR SPECTRUM LINE.
IF ENCOUNTERED, CONTACT SHERRI TRAHAN
(817-271-8108, Sherri_Trahan@kinetic-eng.com)

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG
- EXISTING POWER POLE
- EXISTING SIGN
- EXISTING PEDESTAL POLE

NOTES:

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13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

©2024 Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 35+20.00 TO STA 37+40.00

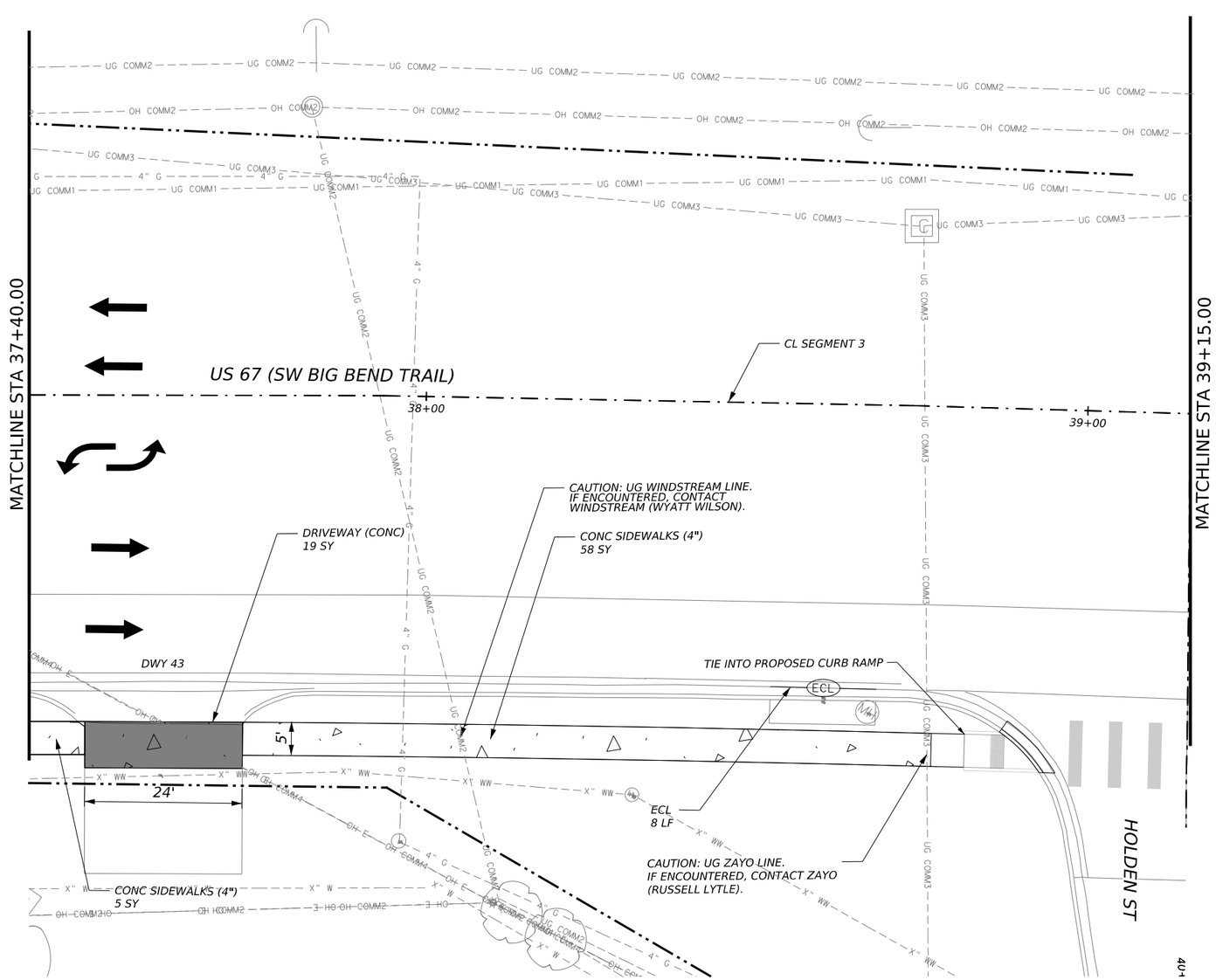
SHEET 40 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		126

DATE: 4/12/2024 3:20:45 PM
FILE: GR_SRTS_SDWK40.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

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CURB RAMPS

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0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

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Firm Registration No. F-754
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Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
US 67
STA 37+40.00 TO STA 39+15.00

SHEET 41 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		127

DATE: 4/12/2024 3:20:54 PM
FILE: GR_SRTS_SDWK41.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:	DW:	CK:
RW		DR		RD	RW

MATCHLINE STA 39+15.00

39+00

US 67 (SW BIG BEND TRAIL)

CURB RAMPS (TY 7)
1 EA

PAV MARK
(W) 24" (SLD)
14 LF

PAV MARK
(W) 24" (SLD)
70 LF

CURB RAMPS (TY 7)
1 EA

CAUTION: UG ZAYO LINE.
IF ENCOUNTERED, CONTACT ZAYO
(RUSSELL LYTLE).

CONC SIDEWALKS (4")
76 SY

CURB & GUTTER (TY II)
70 LF

RELOCATE SIGN
1 EA

DRIVEWAY (CONC)
41 SY

REINSTALL/RELOCATE EXIST MAILBOX
W/ AN ADDITIONAL SECOND POLE AT
BACK EDGE OF EXIST MAILBOX
STA 41+77.78

DWY 44

40+00

41+00

CL SEGMENT 3

HOLDEN ST

MATCHLINE STA 41+80.00

LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
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CURB RAMPS

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SAFE ROUTES

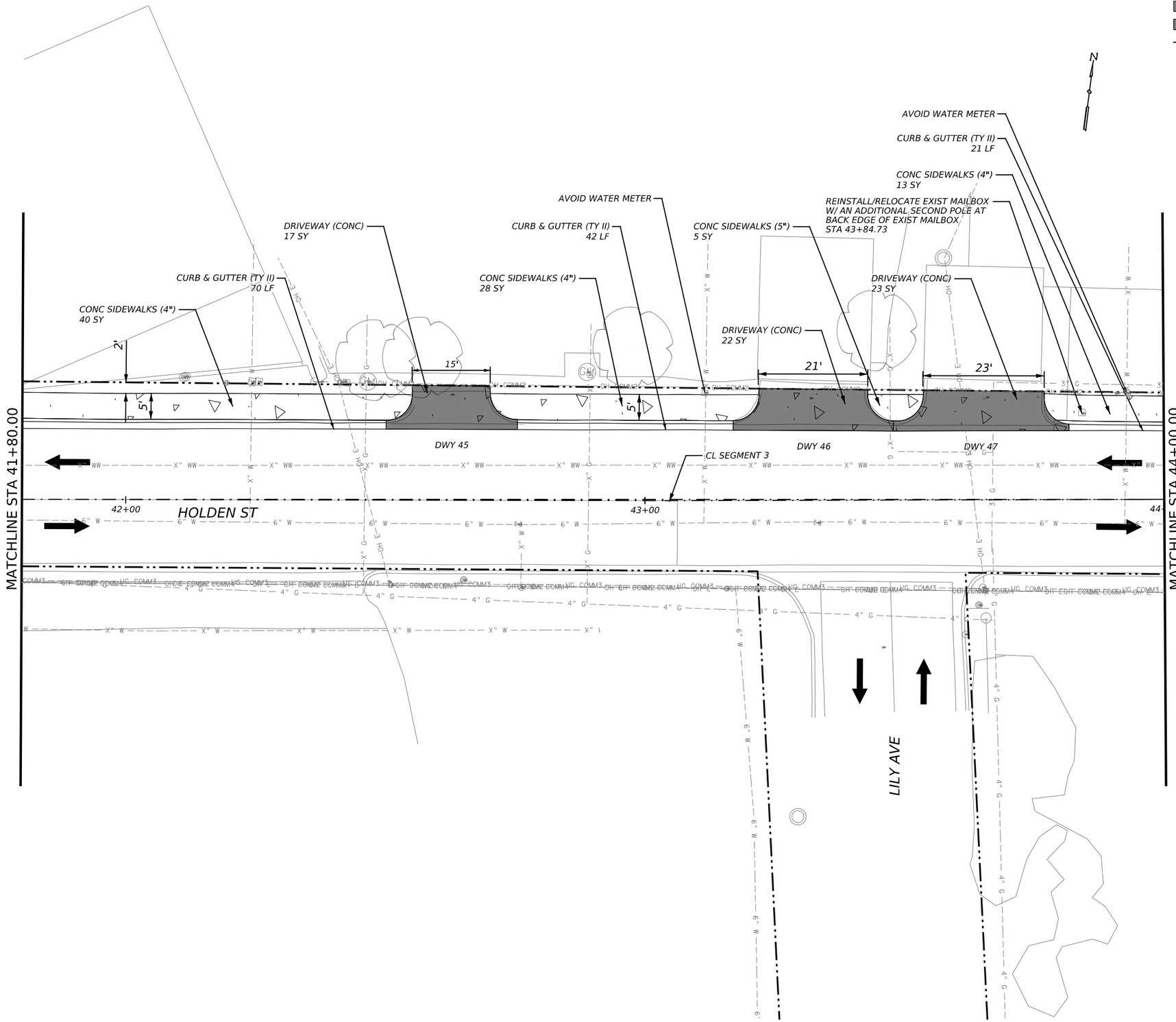
SIDEWALK PLAN
HOLDEN ST
STA 39+15.00 TO STA 41+80.00

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		128

DATE: 4/12/2024 3:21:04 PM
FILE: GR_SRTS_SDWK42.dgn

100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

NOTES:

1. *THE LOCATION OF ALL EXISTING UTILITIES AND DRAINAGE STRUCTURES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE. COORDINATE WITH ALL UTILITY COMPANIES TO FIELD-VERIFY UTILITIES PRIOR TO BEGINNING CONSTRUCTION.*
2. *TURNING SPACE, RAMP, AND DECTECABLE WARNING SURFACES SHOWN ON THE PLAN VIEW ARE FOR VISUALIZATION PURPOSES ONLY. ADJUSMENT WILL BE NEEDED BASED ON FIELD CONDITIONS OR AS DIRECTED. REFER TO THE PEDESTRIAN FACILITIES CURB RAMPS STANDARD AND SIDEWALK DETAILS FOR MORE INFORMATION.*
3. *SEE SIDEWALK DETAILS SHEET 128 FOR CURB RAMP TRANSITION INTO ROADWAY.*
4. *PLACE TREE PROTECTION WITHOUT ENCROACHING ON PRIVATE PROPERTY OR AS DIRECTED. SEE DETAIL SHEET 154 FOR TREE PROTECTION.*
5. *SEE DRIVEWAY SCHEDULE ON SHEET 127 FOR CONSTRUCTION DETAILS. MATCH EXISTING CURB RADII.*
6. *ALL PAVEMENT MARKINGS AND SIGNAGE MUST BE IN ACCORANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).*
7. *"REFL PAV MRK" CALLOUT ABOVE INCLUDE QUANITITES FOR REL PAV MRK TY I, REFL PAV MRK TY II AND PAV SURF PREP FOR MAKINGS.*
8. *LANDSCAPE ANY DISTRUBED AREAS NOT CALLED OUT ON PLANS.*
9. *PROTECT ALL CURB INLETS THAT RECEIVE SURFACE WATER FLOW FROM WORK AREAS FROM STORM WATER QUALITY MANAGEMENT. REFER TO SWP3, EPIC, AND TXDOT STANDARD EC(9)-16 FOR IMPLEMENTATION AND MAINTENANCE OF SWP3 CONTROLS AND COMPLIANCE.*
10. *SIDEWALK MUST NOT OBSTRUCT THE EXISTING DRAINAGE PATTERN. CROSS SLOPE MUST NOT EXCEED 2%.*
11. *LOCATION OF TIE-IN FOR SIDEWALK CAN BE FIELD ADJUSTED AS DIRECTED.*
12. *ITEM 110 ECAVATION AND ITEM 132 EMBANKMENT WILL NOT BE PAID FOR DIRECTLY BUT WILL BE SUBSIDIARY TO PERTINENT ITEM 531 CONC SIDEWALKS.*
13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
HOLDEN ST
STA 41+80.00 TO STA 44+00.00

SHEET 43 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		129

DATE: 4/12/2024 3:21:13 PM
FILE: GR SRTS SDWK43.dgn

100% PLANS SUBMITTAL

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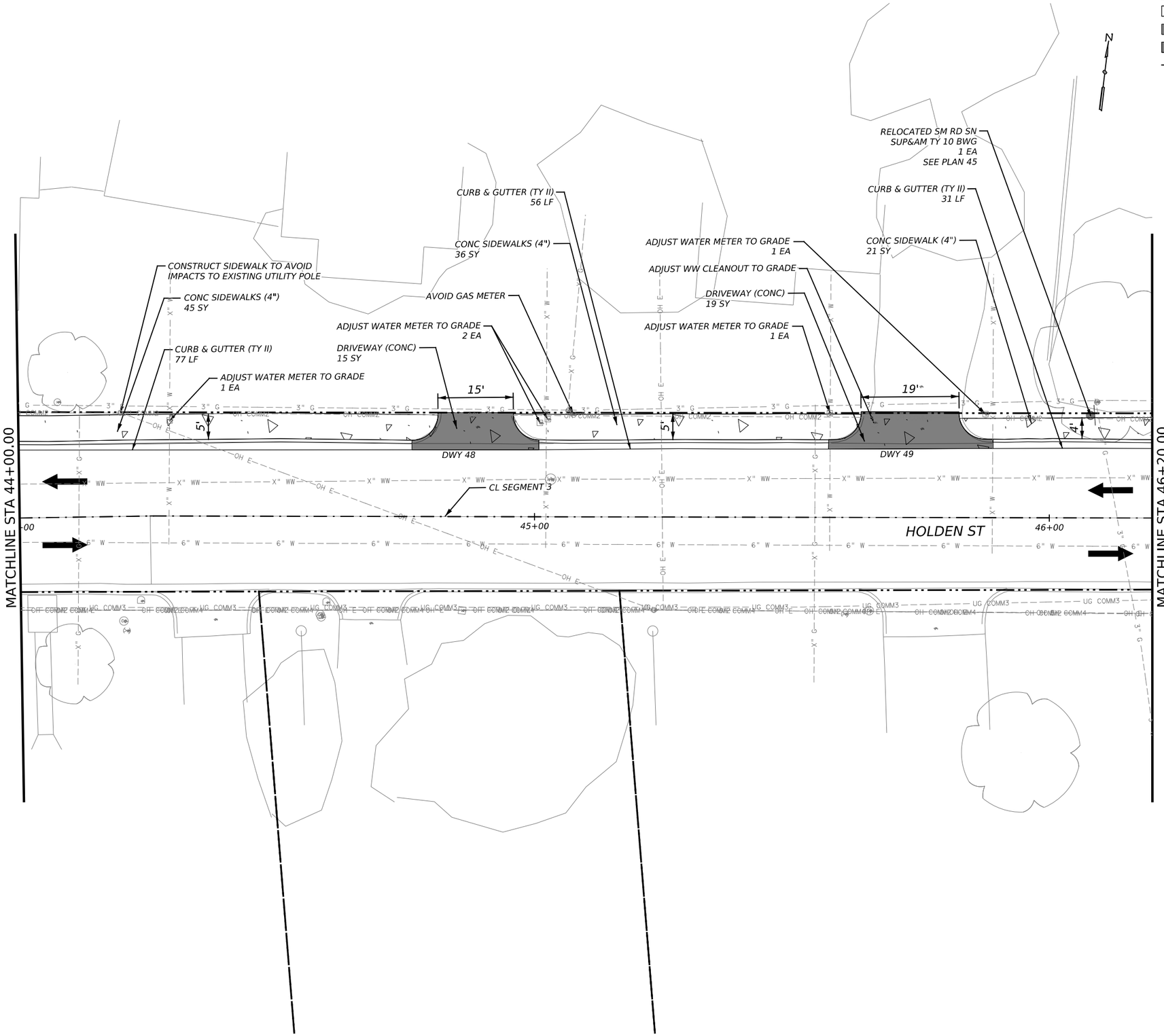
RW	CK:	DR	DW:	RD	CK:	RW



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
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- *EXISTING SIGN*
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13. *CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.*

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40

SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

SAFE ROUTES

SIDEWALK PLAN
HOLDEN ST
STA 44+00.00 TO STA 46+20.00

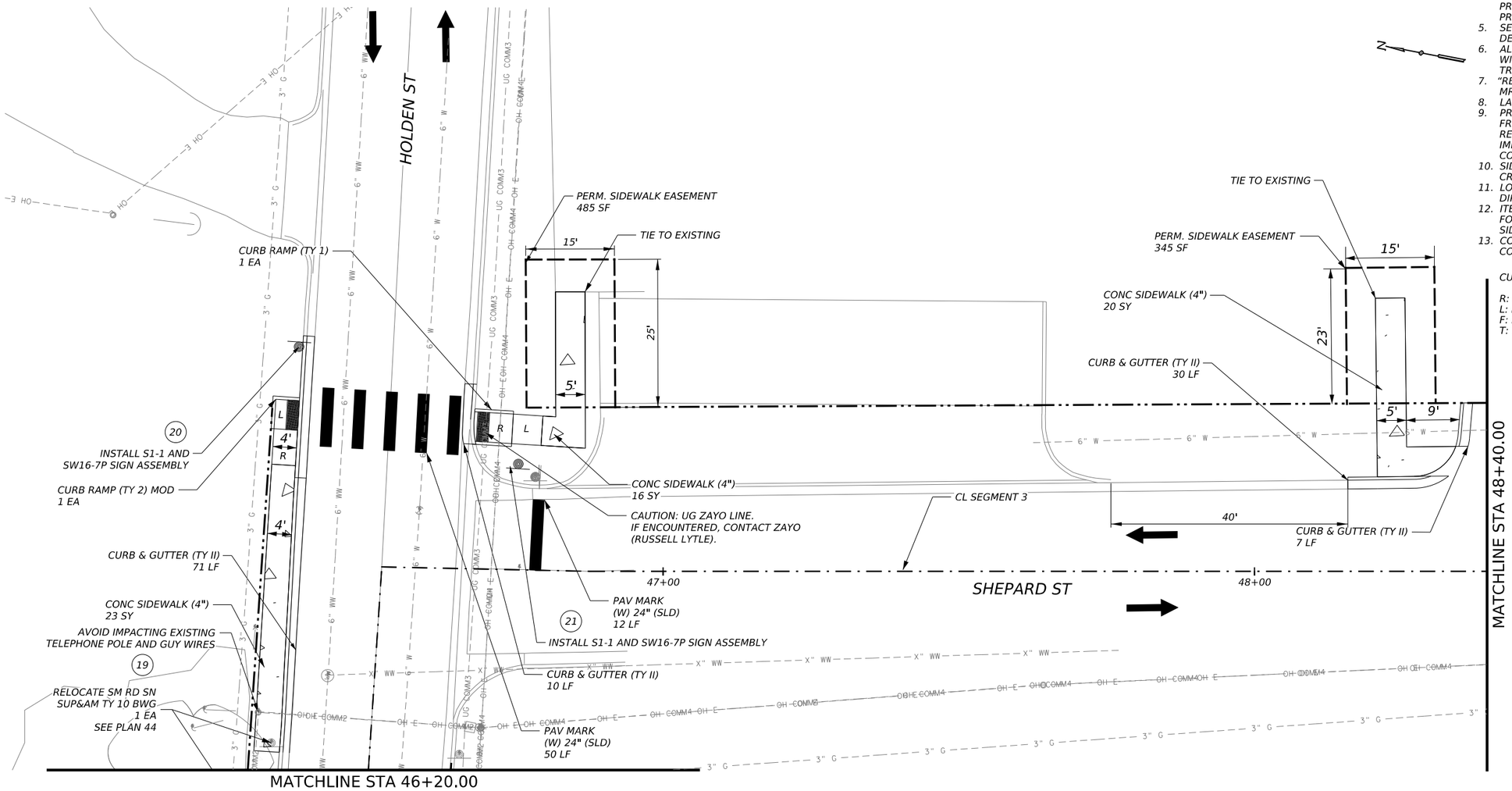
SHEET 44 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		130

DATE: 4/12/2024 3:21:24 PM
FILE: GR_SRTS_SDWK44.dgn

100% PLANS SUBMITTAL

DW:	RW	CK:	RW
DW:	RW	CK:	DR
DW:	RD		



LEGEND

- *APPARENT ROW*
- *PROP. SIDEWALK*
- *PROP. CONC SIDEWALK (SPECIAL) (TYPE B)*
- *PROP. DRIVEWAY*
- *TEMPORARY CONSTRUCTION LICENSE AREA*
- *DIRECTION OF TRAVEL*
- *TREE PROTECTION*
- *EROSION CONTROL LOG*
- *EXISTING POWER POLE*
- *EXISTING SIGN*
- *EXISTING PEDESTAL POLE*

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CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

©2024
Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
SHEPARD ST
STA 46+20.00 TO STA 48+40.00

SHEET 45 OF 46

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		131

DATE: 4/12/2024 3:21:33 PM
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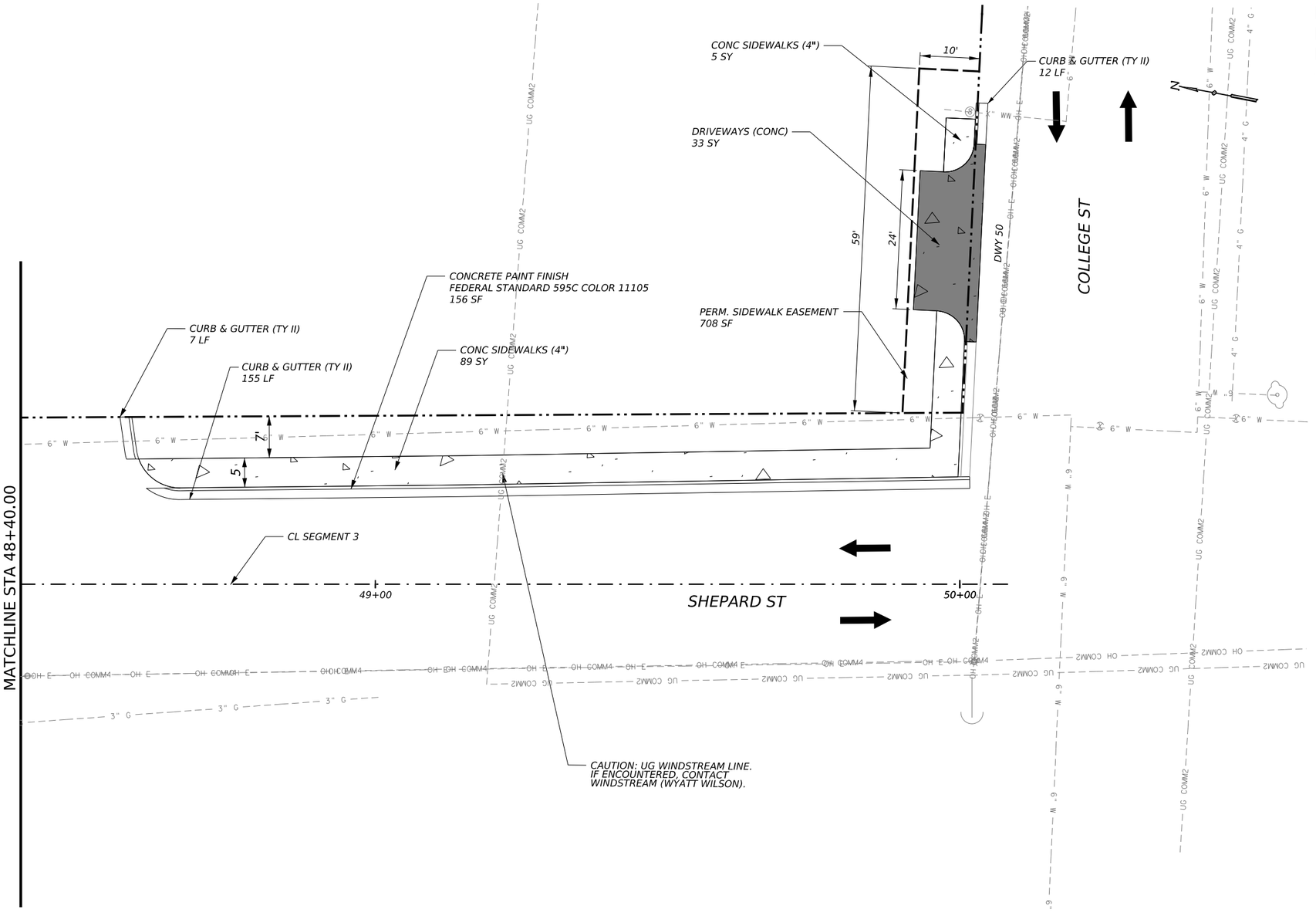
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



LEGEND

- APPARENT ROW
- PROP. SIDEWALK
- PROP. CONC SIDEWALK (SPECIAL) (TYPE B)
- PROP. DRIVEWAY
- TEMPORARY CONSTRUCTION LICENSE AREA
- DIRECTION OF TRAVEL
- TREE PROTECTION
- EROSION CONTROL LOG
- EXISTING POWER POLE
- EXISTING SIGN
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13. CONTRACTOR TO USE EMBANKMENT TYPE B USING ORDINARY COMPACTION METHOD.

CURB RAMPS

R: RAMP
L: LANDING
F: FLARE
T: TRANSITION

0 10 20 30 40
SCALE IN FEET
1" = 20'

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL
ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

SIDEWALK PLAN
SHEPARD ST
STA 48+40.00
TO END SEG 3

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		132

DATE: 4/12/2024 3:21:43 PM
FILE: GR_SRTS_SDWK46.dgn

100% PLANS SUBMITTAL
DN: RW CK: DR DW: RD CK: RW

DRIVEWAY	STATION	TYPE	DWY RECONSTRUCTION LENGTH (LF)	DRIVEWAY WIDTH (FT)	DRIVEWAY AREA (SY)
1	2+02.79	COMMERCIAL	11	38	53
2	3+56.11	COMMERCIAL	11	31	48
3	6+95.81	COMMERCIAL	11	30	46
4	7+88.26	COMMERCIAL	11	31	47
5	11+79.45	RESIDENTIAL	8	24	21
6	13+62.62	RESIDENTIAL	8	20	17
7	13+47.88	RESIDENTIAL	9	21	19
8	17+42.36	RESIDENTIAL	17	16	34
9	17+74.17	RESIDENTIAL	17	29	57
10	18+59.03	RESIDENTIAL	16	15	31
11	19+23.12	RESIDENTIAL	16	18	37
12	19+66.35	RESIDENTIAL	16	12	25
13	22+30.39	RESIDENTIAL	17	11	24
14	22+93.79	RESIDENTIAL	17	19	39
15	28+99.45	RESIDENTIAL	8	19	17
16	29+71.08	RESIDENTIAL	8	11	11
17	30+46.06	RESIDENTIAL	8	19	17
18	30+82.98	RESIDENTIAL	8	12	12
19	2+06.76	COMMERCIAL	10	18	28
20	2+48.65	COMMERCIAL	10	31	38
21	6+12.26	RESIDENTIAL	12	27	40
22	7+20.62	RESIDENTIAL	11	16	24
23	8+39.94	RESIDENTIAL	11	18	26
24	11+05.50	RESIDENTIAL	10	17	24
25	12+28.79	RESIDENTIAL	10	13	19
26	13+19.40	RESIDENTIAL	10	16	23
27	1+05.85	COMMERCIAL	11	34	55
28	2+40.53	COMMERCIAL	30	31	123
29	3+68.52	COMMERCIAL	10	20	23
30	4+57.04	COMMERCIAL	11	20	24
31	8+18.35	COMMERCIAL	10	20	22
32	9+76.94	COMMERCIAL	17	19	34
33	12+51.61	COMMERCIAL	8	43	38
34	13+66.84	COMMERCIAL	9	42	41
35	16+03.07	COMMERCIAL	7	23	18
36	20+59.52	COMMERCIAL	5	23	13
37	23+03.44	COMMERCIAL	47	24	180
38	26+23.26	COMMERCIAL	12	37	59
39	33+92.64	COMMERCIAL	7	28	22
40	35+00.68	COMMERCIAL	7	25	19
41	35+81.68	COMMERCIAL	7	31	25
42	36+72.39	COMMERCIAL	7	25	20
43	37+48.39	COMMERCIAL	7	24	19
44	41+36.28	COMMERCIAL	9	35	41
45	42+55.23	RESIDENTIAL	8	15	17
46	43+22.02	RESIDENTIAL	8	21	22
47	43+53.68	RESIDENTIAL	8	23	23
48	44+81.31	RESIDENTIAL	7	15	15
49	45+63.82	RESIDENTIAL	7	19	19
50	50+06.89	COMMERCIAL	11	24	33
				Total	1682

DATE: 4/12/2024 3:21:51 PM
FILE: GR_SRTS_DWY_SCH.dgn

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

[illegible]

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

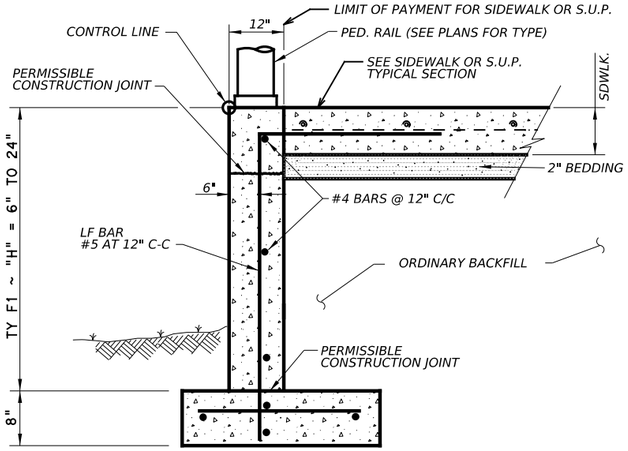
Texas Department of Transportation

SAFE ROUTES

DRIVEWAY SCHEDULE

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		133

100% PLANS SUBMITTAL
DW RW | CK DR | DW RD | CK RW



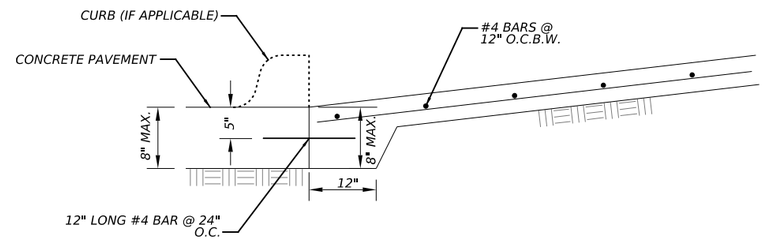
CONC CURB (TY F1)‡

CONCRETE CURB NOTES:
All Concrete, including adjacent sidewalk or S.U.P., shall be Class "C".
All Reinforcing Steel shall be Grade 60.
Minimum 4' sidewalk width for CONC CURB (TYPES C1 & C2).

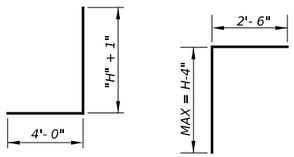
‡ *Until the sidewalk is complete, lateral support for the "F" curbs will be required.*

ALL WORK SHOWN BEYOND TYPICAL SIDEWALK, S.U.P., AND PED RAIL IS SUBSIDIARY.

DESIGN SOIL PARAMETERS:
Soil Unit Wt.= 120 pcf
Phi = 30 Degrees
Cohesion = 50 psf
Min. PI = 15
Max. PI = 30
SURCHARGE:
TYPE F CURB q = 2' Adjacent to sidewalk
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.

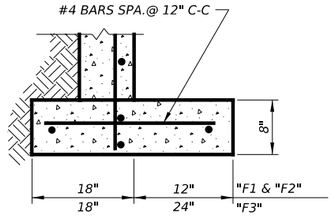


SECTION VIEW
RAMP TIE-IN AT PAVEMENT
NOT TO SCALE



BAR LC

BAR LF



FOOTING DETAIL

NO.	DATE	REVISION	APPR BY

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED PROFESSIONAL ENGINEER

05-03-2024

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

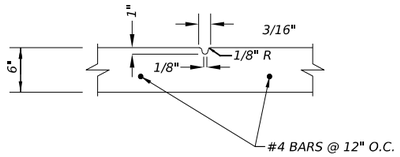
SIDEWALK DETAIL

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		134

DATE: 5/3/2024 11:34:40 AM
FILE: GR_SRTS_DET01.dgn

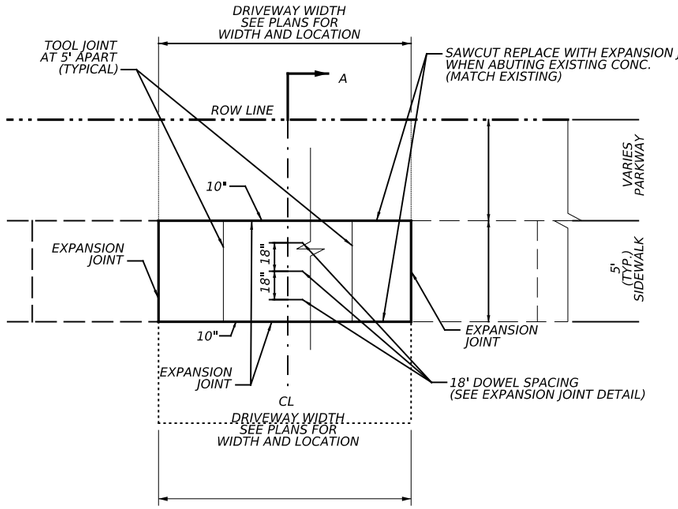
100% PLANS SUBMITTAL

DW:	CK:	DW:	CK:
RW	DR	RD	RW



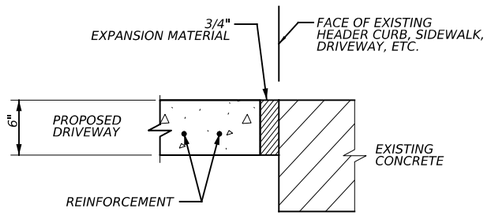
TOOL JOINT

NOT TO SCALE



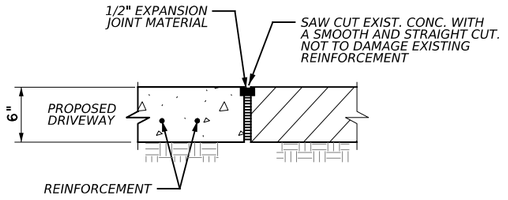
TYPICAL DRIVEWAY DETAIL

NOT TO SCALE



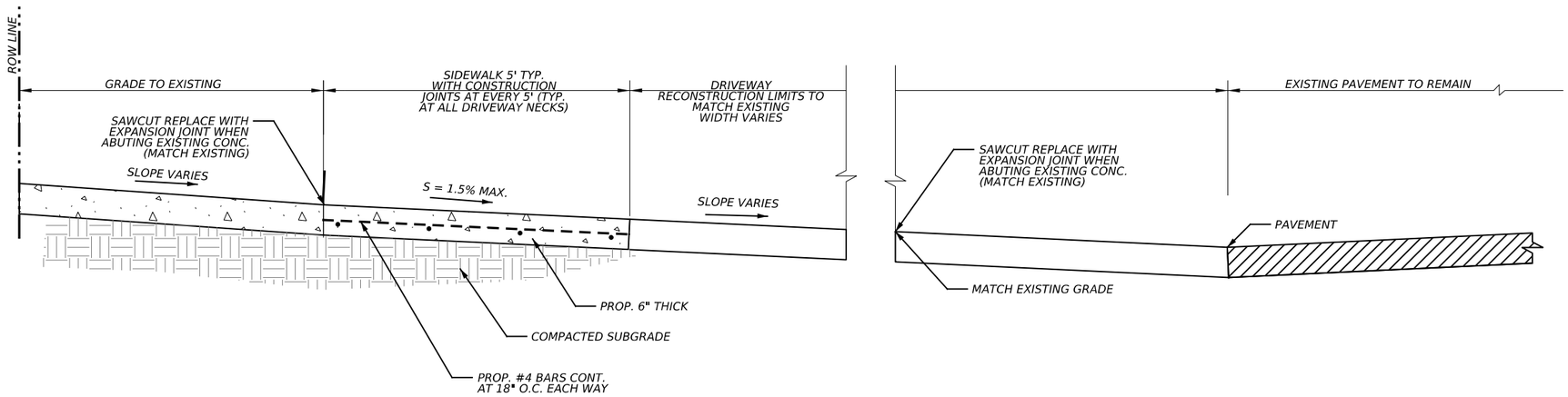
SECTION THRU DRIVEWAY
MATCH EXISTING CONCRETE
(INCLUDES SAW CUTS)

NOT TO SCALE



SAWCUT DETAIL

NOT TO SCALE



SECTION A-A

NOT TO SCALE

NO.	DATE	REVISION	APPR BY

04-15-2024

STATE OF TEXAS
RYAN A. WHITNEY
130723
REGISTERED
PROFESSIONAL ENGINEER

HDR Engineering, Inc
Firm Registration No. F-754
710 Hester Crossing, Suite 150
Round Rock, Texas 78681

Texas Department of Transportation

SAFE ROUTES

DRIVEWAY DETAIL

CONT	SECT	JOB	HIGHWAY
0902	41	002	US 67, ETC.
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		135

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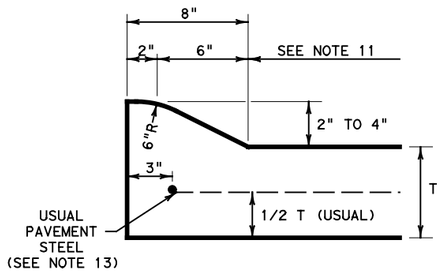
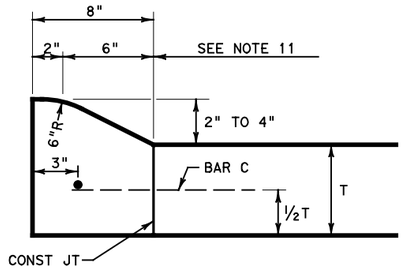
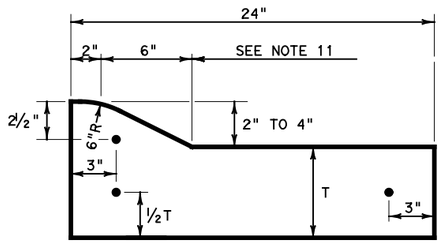


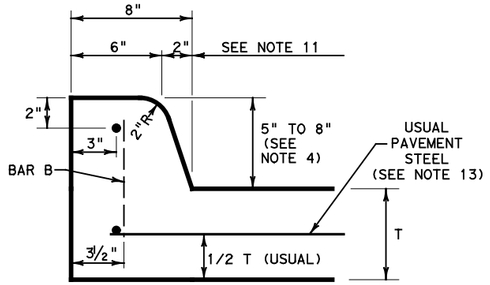
TYPE I CURB (MONOLITHIC)
2" - 4" HEIGHT



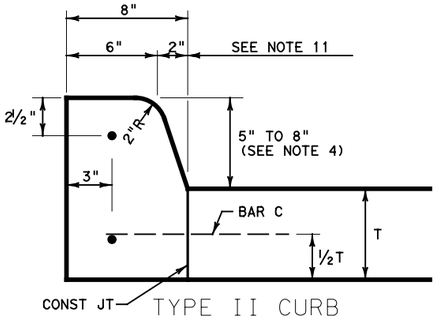
TYPE I CURB
2" - 4" HEIGHT



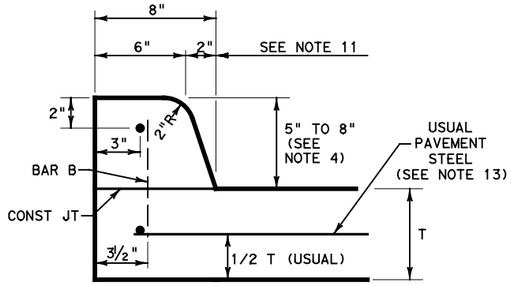
TYPE I CURB AND GUTTER
2" - 4" HEIGHT



TYPE II CURB (MONOLITHIC)
5" - 8" HEIGHT



TYPE II CURB
5" - 8" HEIGHT
DOWELED VERTICAL JOINT



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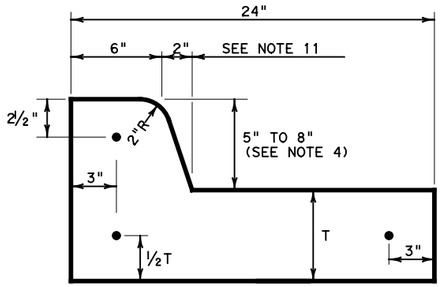
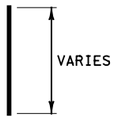
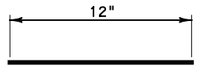
DOWELED HORIZONTAL JOINT



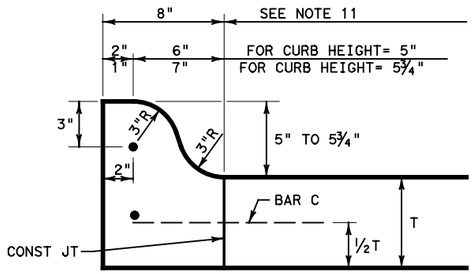
TYPE II CURB AND GUTTER
5" - 8" HEIGHT



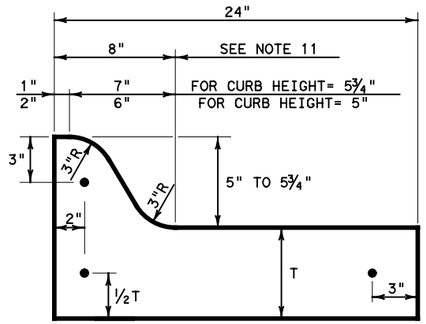
BAR B
L = (T/2) + (H- 1½")
WHERE "H" = CURB HEIGHT
FOR NEW PAVEMENT, EMBED T/2 INTO FRESH CONCRETE.
FOR EXISTING PAVEMENT, DRILL 3/8" DIAM HOLE T/2 + 1/4" INTO PAVEMENT. SECURE WITH TY III EPOXY, CLASS "E" OR "F".



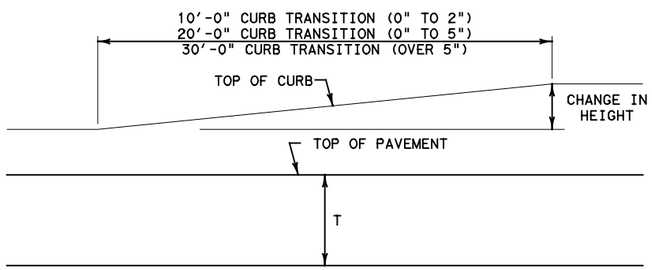
BAR C
EMBED 6" INTO EXISTING CONCRETE PAVEMENT.
DRILL 3/8" X 6 1/4" HOLE SECURE WITH TY III EPOXY, CLASS "E" OR "F".



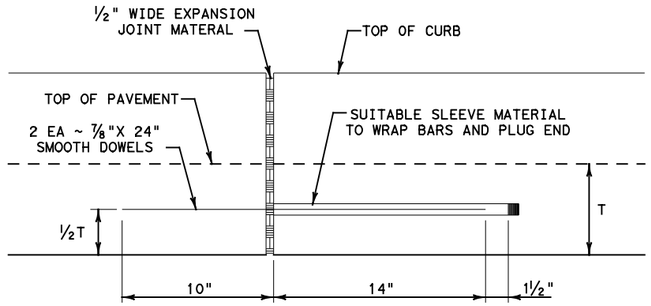
TYPE IIA CURB
5" - 5 3/4" HEIGHT



TYPE IIA CURB AND GUTTER
5" - 5 3/4" HEIGHT



CURB TRANSITION
NOTE: TO BE PAID FOR AS HIGHEST CURB



EXPANSION JOINT DETAIL

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ITEM 529, "CONCRETE CURB, GUTTER, AND COMBINED CURB AND GUTTER".
2. ALL CONCRETE SHALL BE CLASS "A".
3. ALL REINFORCING BARS SHALL BE #4, UNLESS OTHERWISE SHOWN.
4. UNLESS OTHERWISE SHOWN, ALL TYPE II CURB SHALL BE 6" HEIGHT .
5. ROUND EXPOSED SHARP EDGES WITH A ROUNDING TOOL, TO A MINIMUM RADIUS OF ¼".
6. ALL EXISTING CURBS AND DRIVEWAYS TO BE REMOVED SHALL BE SAW CUT FULL DEPTH OR REMOVED AT EXISTING JOINTS.
7. WHERE CONCRETE CURB IS PLACED ON EXISTING CONCRETE PAVEMENT, THE PAVEMENT SHALL BE DRILLED AND THE REINFORCING BARS GROUTED OR EPOXIED IN PLACE.
8. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH PAVEMENT JOINTS IN ALL CURBS OR 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 OR DRIVEWAYS, AND AT LOCATIONS DIRECTED BY THE ENGINEER.
9. VERTICAL AND HORIZONTAL DOWELS BARS AND TRANSVERSE REINFORCING BARS SHALL BE PLACED AT 4' C-C.
10. DIMENSION "T" SHOWN IS THE THICKNESS OF ADJACENT CONCRETE PAVEMENT, OR, WHEN CURB IS INSTALLED ADJACENT TO FLEXIBLE PAVEMENT, "T" IS 6" MINIMUM, 8" MAXIMUM.
11. USUAL PROFILE GRADE LINE. REFER TO TYPICAL SECTIONS AND PLAN-PROFILE SHEETS FOR EXACT LOCATIONS.
12. A SEALED, ½" EXPANSION JOINT SHALL BE PROVIDED WHERE CURB AND GUTTER IS ADJACENT TO SIDEWALK OR RIPRAP.
13. LONGITUDINAL AND TRANSVERSE PAVEMENT STEEL SHALL BE PLACED IN ACCORDANCE WITH PAVEMENT DETAILS SHOWN ELSEWHERE IN THE PLANS.

Texas Department of Transportation

Fort Worth District Standard

CONCRETE CURB AND CURB AND GUTTER DETAILS

CCCG (FTW)

ORIGINAL DRAWING: 05/2019	cccg-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.		SHEET NO.
DATE	REVISIONS	6			136
05/2019	NEW STANDARD	STATE	STATE DIST.NO.	COUNTY	
07/2022	DESIGNATE USUAL 6" HEIGHT	TEXAS	FTW	SOMERVELL	
		CONT.	SECT.	JOB	HIGHWAY NO.
		902	41	2	US 67, ETC

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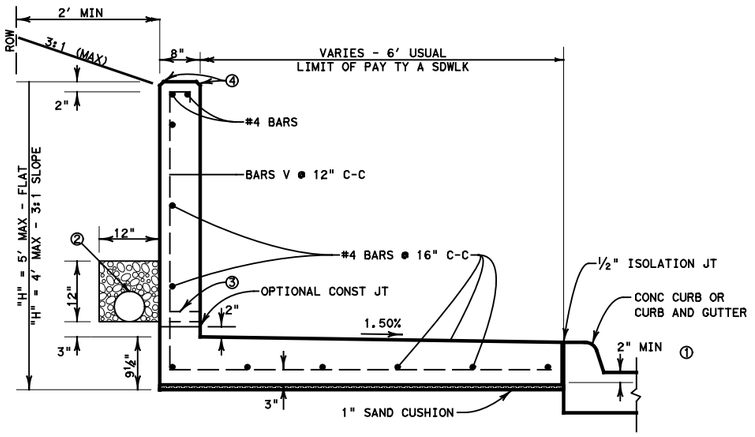
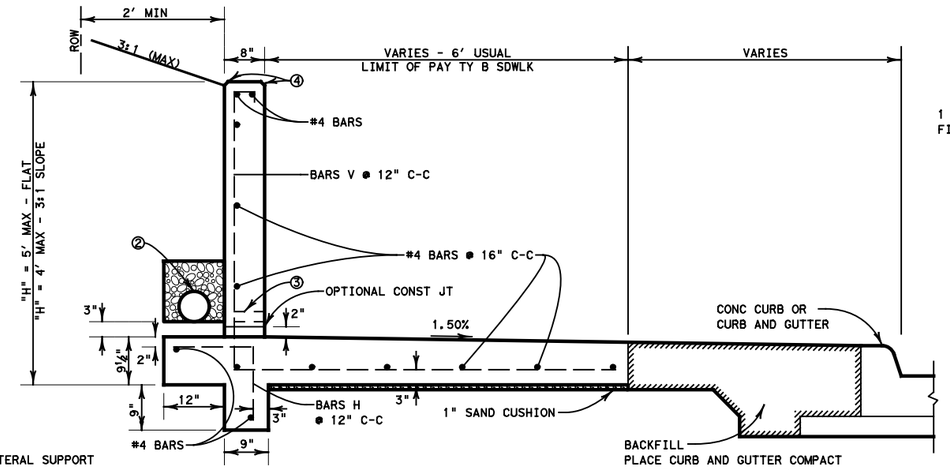


TYPE A SIDEWALK-ADJACENT TO CURB

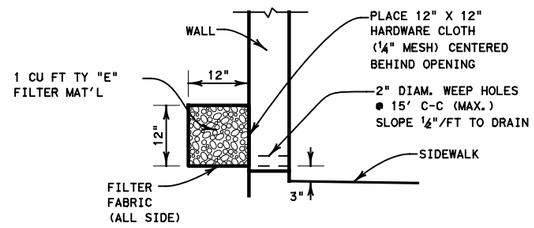


① 2" MINIMUM REQUIRED FOR LATERAL SUPPORT
② INSTALL 6" PIPE UNDERDRAIN (TY. 5, 6, 7, OR 8) ENTIRE LENGTH OF WALL. USE TY. "E" FILTER MATERIAL. SLOPE TO DRAIN AND CONNECT TO STORM DRAIN.
⑤ IF, IN THE OPINION OF THE ENGINEER, USE OF UNDERDRAIN IS IMPRACTICAL, INSTALL WEEP HOLES AS SHOWN.
④ ¾" CHAMFER

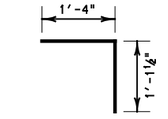
TYPE B SIDEWALK-REMOTE FROM CURB

SPECIAL CONCRETE SIDEWALK w/ INTEGRATED RETAINING WALL

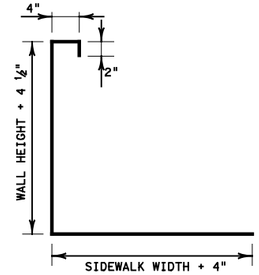
N. T. S.



WEEP HOLE DETAIL

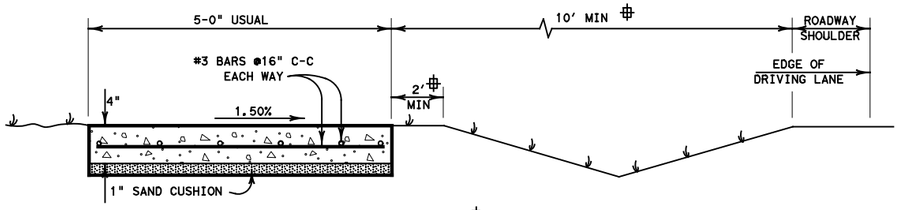


#4 BARS H @ 12" C-C



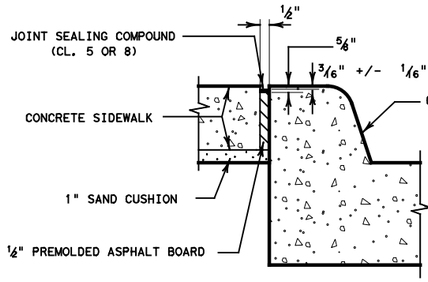
#4 BARS V @ 12" C-C

REINFORCING STEEL DETAILS



⌗SIDEWALK TO BE 10' MIN. FROM EDGE OF SHOULDER OR 2' MIN. FROM TOP OF DITCH BACK SLOPE, WHICHEVER IS GREATER (10' MIN. FROM EDGE OF SHOULDER IF NO DITCH.)

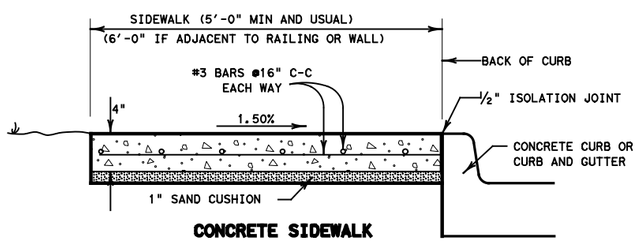
CONCRETE SIDEWALK
(ROADWAY W/O CURB)



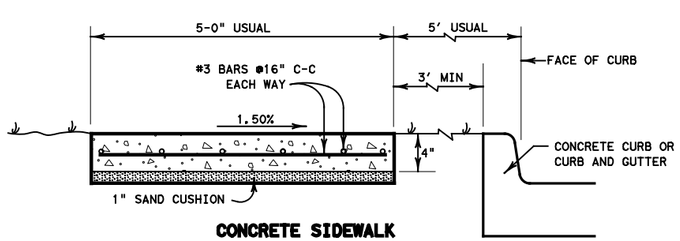
1/2" ISOLATION JOINT
(SIDEWALK ADJACENT TO CURB)

GENERAL NOTES:

1. ALL CONCRETE SHALL BE CLASS "C".
2. ALL REINFORCING STEEL SHALL BE GRADE 60, # 4 BARS UNLESS OTHERWISE INDICATED.
3. SEE PLAN SHEETS FOR LOCATIONS OF SIDEWALKS AND RETAINING WALLS.
4. LONGITUDINAL SLOPE OF SIDEWALKS SHALL NOT EXCEED 5% EXCEPT IN CASES WHERE THE ADJACENT ROADWAY SLOPE EXCEEDS 5%. IF ROADWAY SLOPE EXCEEDS 5%, LONGITUDINAL SLOPE OF SIDEWALK MAY MATCH THAT OF ROADWAY.
5. IF SIDEWALK WIDTH IS LESS THAN 5', PROVIDE 5' X 5' PASSING AREAS AT INTERVALS NOT TO EXCEED 200' SPACING.
6. RETAINING WALL WILL BE SUBSIDIARY TO THE ITEM, "CONC SIDEWALKS (SPECIAL) (TYPE A)" OR "CONC SIDEWALKS (SPECIAL)(TYPE B)", WITH LIMITS OF PAY AS SHOWN.
7. SURFACE TREATMENT OF RETAINING WALL FACE DETAILED ELSEWHERE IN THE PLANS.
8. SEE PED STANDARDS FOR TREATMENT AT INTERSECTIONS AND CROSSWALKS.



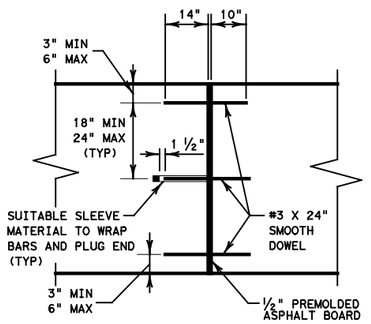
CONCRETE SIDEWALK
(ADJACENT TO CURB)



CONCRETE SIDEWALK
(REMOTE FROM CURB)

CONCRETE SIDEWALK DETAILS

N. T. S.



TRANSVERSE EXPANSION JOINT

Texas Department of Transportation

Fort Worth District Standard

CONCRETE SIDEWALK DETAILS
CSWD (FTW)

ORIGINAL DRAWING: 05/2019	cswd-ftw.dgn	PROJECT NO.			SHEET NO.
DATE	REVISIONS				137
05/2019	NEW STANDARD	STATE	STATE DIST.NO.	COUNTY	
11/2020	REVISE JOINT NOMENCLATURE, REVISE ALLOWABLE SEALANT TYPES	TEXAS	FTW	SOMERVELL	
		CONT.	SECT.	JOB	HIGHWAY NO.
		902	41	2	US 67, ETC

http://www.dot.state.tx.us/ftw/specinfo/standard.htm
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DATE: 4/12/2024
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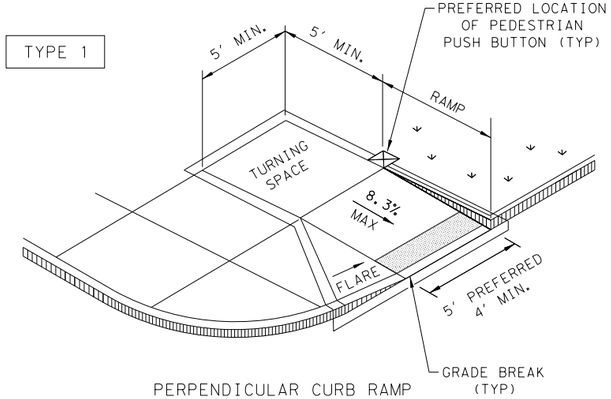
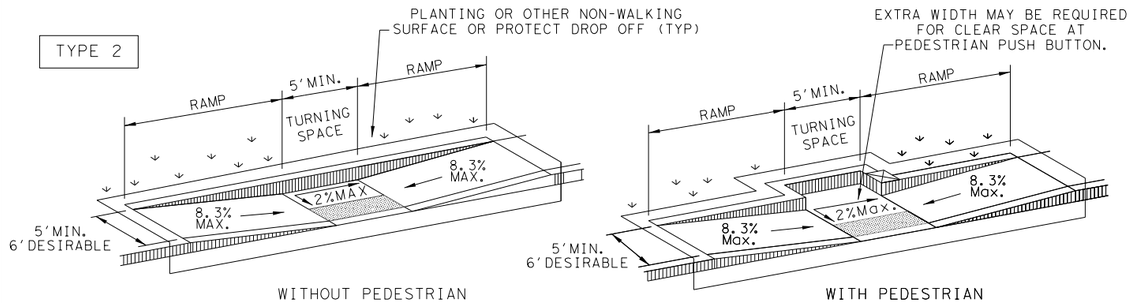
TYPE 1



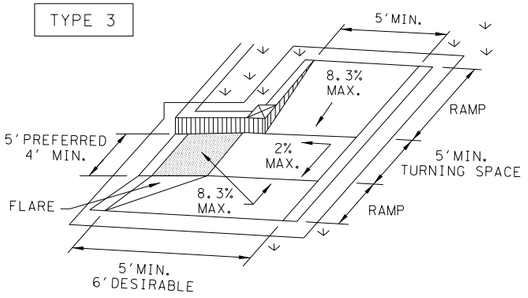
PERPENDICULAR CURB RAMP

TYPE 2

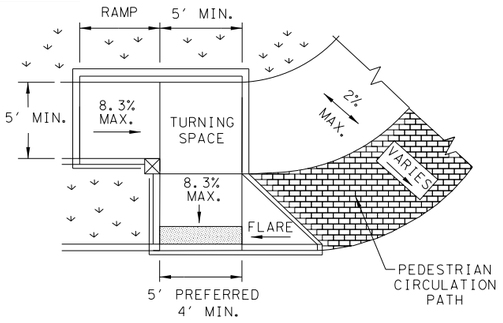


PARALLEL CURB RAMP

TYPE 3

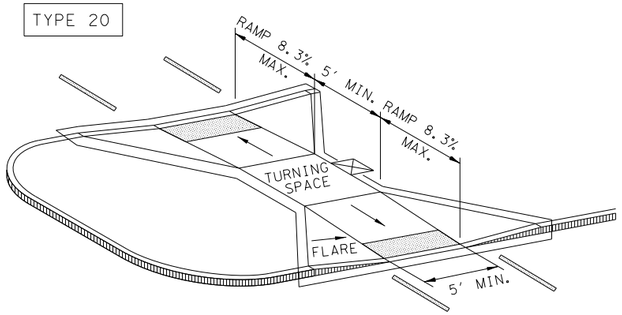


TYPE 6



COMBINATION CURB RAMPS

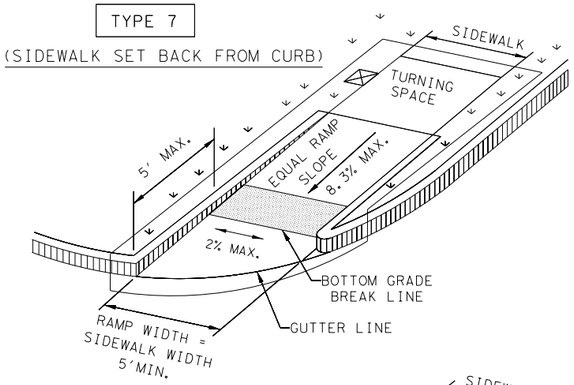
TYPE 20



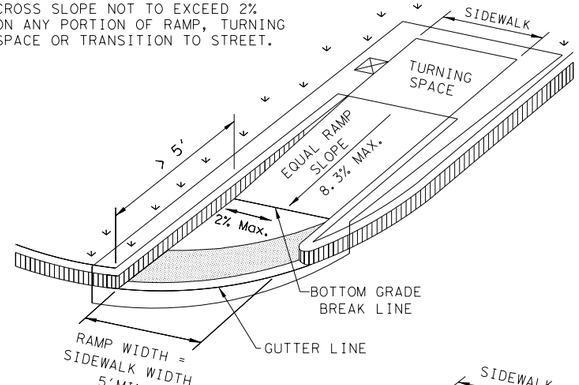
CURB RAMPS AT MEDIAN ISLANDS

TYPE 7

(SIDEWALK SET BACK FROM CURB)

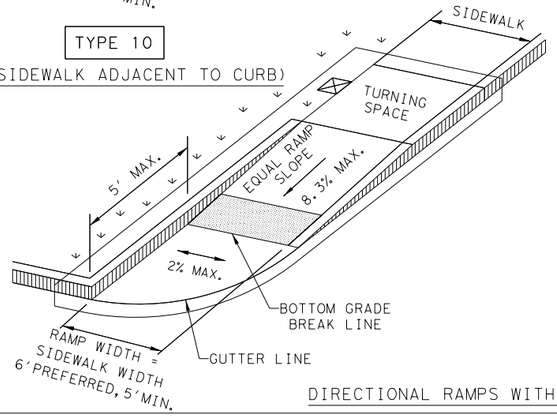


CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, TURNING SPACE OR TRANSITION TO STREET.

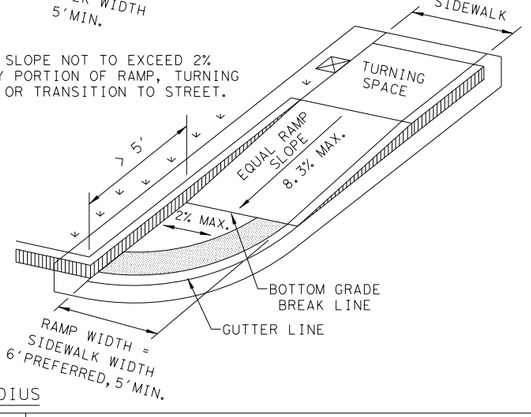


TYPE 10

(SIDEWALK ADJACENT TO CURB)

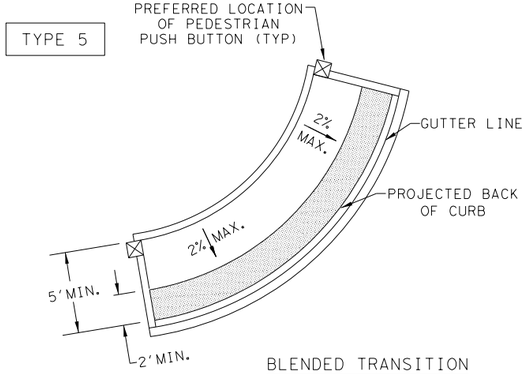


CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, TURNING SPACE OR TRANSITION TO STREET.



DIRECTIONAL RAMPS WITHIN RADIUS

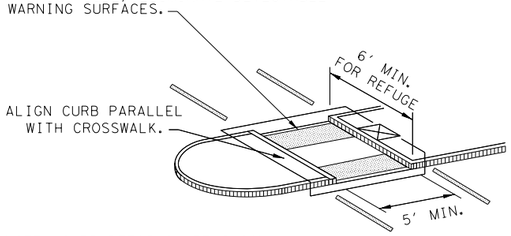
TYPE 5



BLENDED TRANSITION
(FLUSH LANDING)

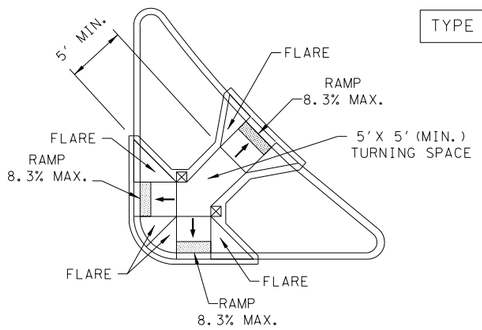
INSTALL DETECTABLE WARNING SURFACE AT EACH END OF THE CUT-THROUGH RAMP WITH A MINIMUM 2' USUAL SIDEWALK SURFACE BETWEEN. IF MEDIAN IS LESS THAN 6' WIDE, ELIMINATE DETECTABLE WARNING SURFACES.

TYPE 21



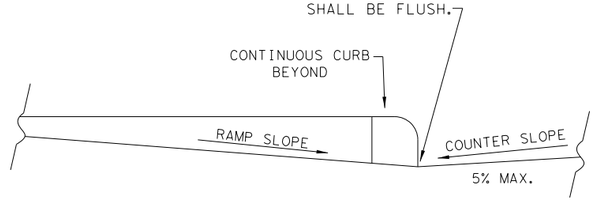
NOTE: CURB DETAILS ARE SHOWN ELSEWHERE IN THE PLANS.

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

SHEET 1 OF 4

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	902	41	2	US 67, ETC
REVISED 08,2005 REVISED 06,2012 REVISED 01,2018	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		138

DATE: 4/12/2024
FILE: 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

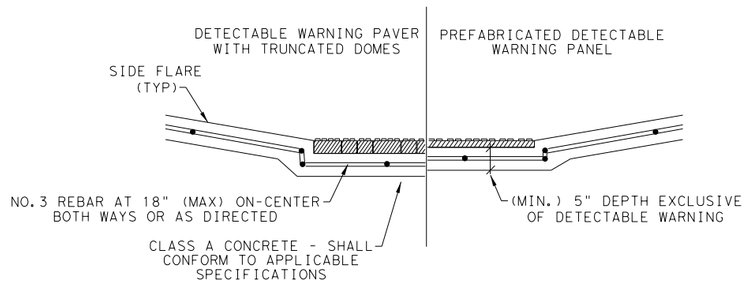
19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material 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.

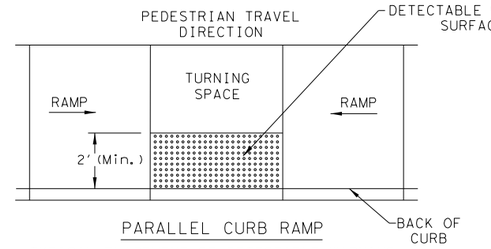
SIDEWALKS

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.



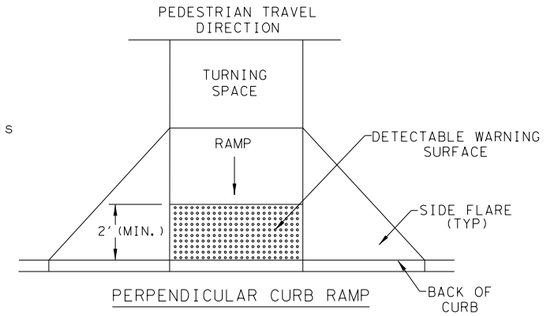
SECTION VIEW DETAIL
CURB RAMP AT DETECTIBLE WARNINGS

DETECTABLE WARNING SURFACE DETAILS



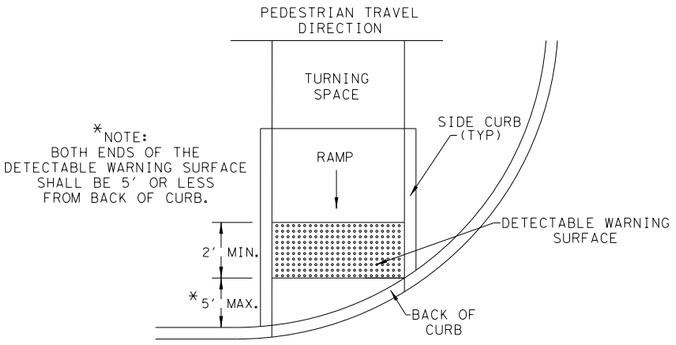
PARALLEL CURB RAMP

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.

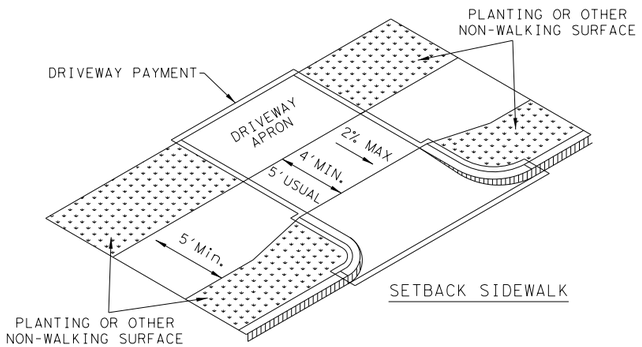
Texas Department of Transportation | Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

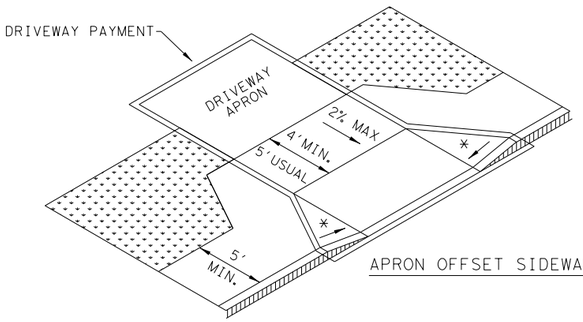
PED-18

FILE: ped18	DN: TxDOT		DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002	CONT	SECT	JOB		HIGHWAY
REVISIONS REVISED 08,2005 REVISED 06,2012 REVISED 01,2018	902	41	2		US 67, ETC
	DIST	COUNTY			SHEET NO.
	FTW	SOMERVELL			139

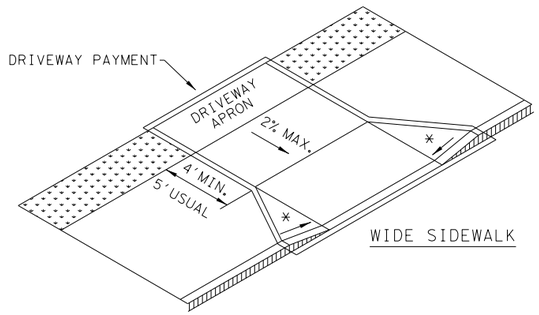
SIDEWALK TREATMENT AT DRIVEWAYS



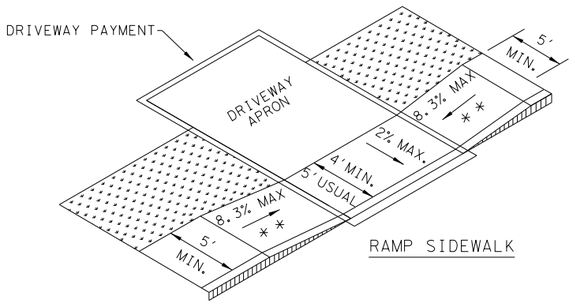
SETBACK SIDEWALK



APRON OFFSET SIDEWALK



WIDE SIDEWALK

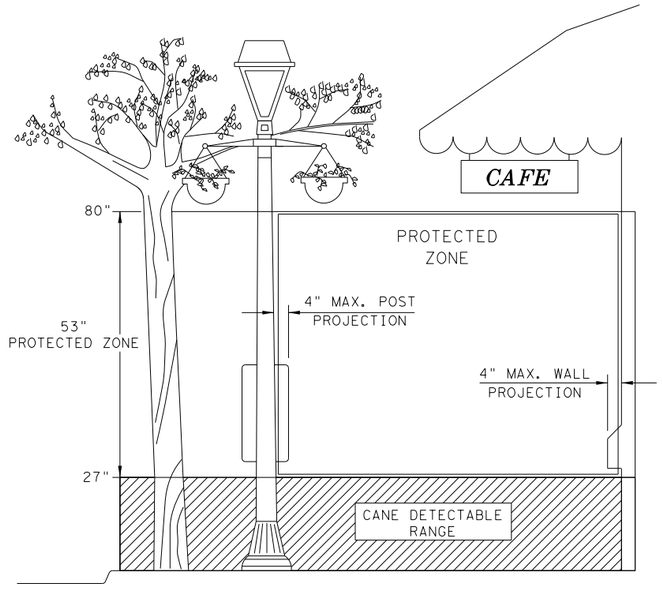


RAMP SIDEWALK

NOTES:

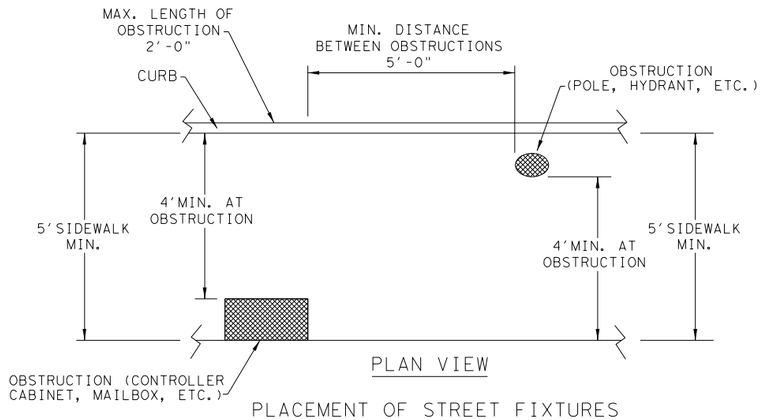
* WHERE DRIVEWAYS CROSS THE PEDESTRIAN ROUTE, SIDES SHALL BE FLARED AT 10% MAX SLOPE.

* * 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

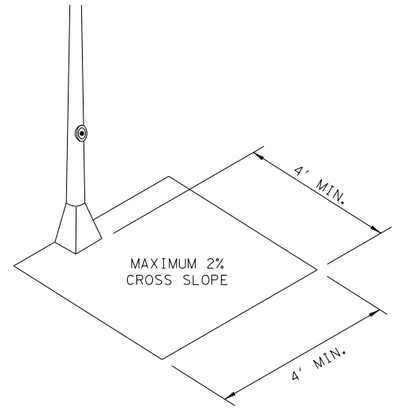
NOTE: IN PEDESTRIAN CIRCULATION AREA, MAXIMUM 4" PROJECTION FOR POST OR WALL MOUNTED OBJECTS BETWEEN 27" AND 80" ABOVE THE SURFACE.



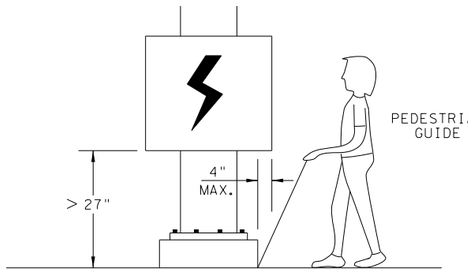
PLAN VIEW

PLACEMENT OF STREET FIXTURES

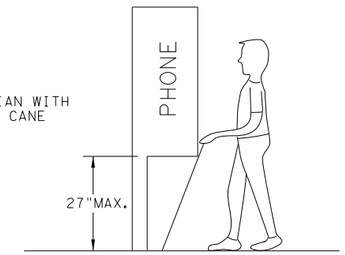
NOTE: ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' X 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.



CLEAR SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON



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"

DATE: 4/12/2024
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Design Division Standard

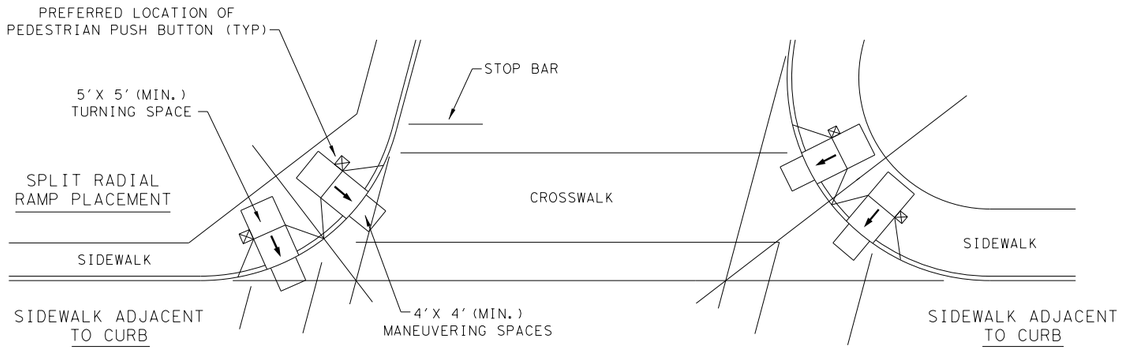
PEDESTRIAN FACILITIES CURB RAMPS

PED-18

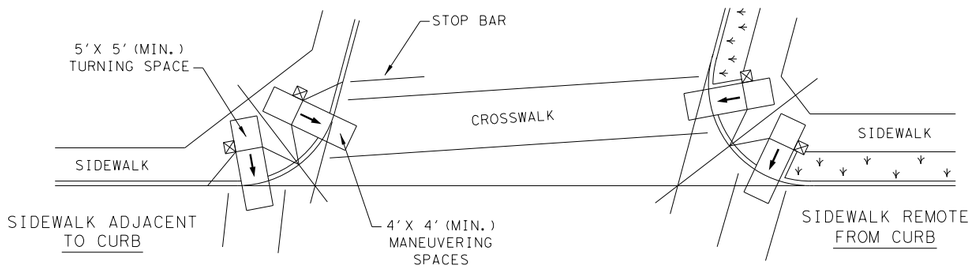
FILE: ped18	DN: TxDOT		DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002	CONT	SECT	JOB		HIGHWAY
REVISIONS	902	41	2		US 67, ETC
REVISED 08,2005 REVISED 06,2012 REVISED 01,2018	DIST	COUNTY			SHEET NO.
	FTW	SOMERVELL			140

DATE: 4/12/2024
FILE: ped18.dgn

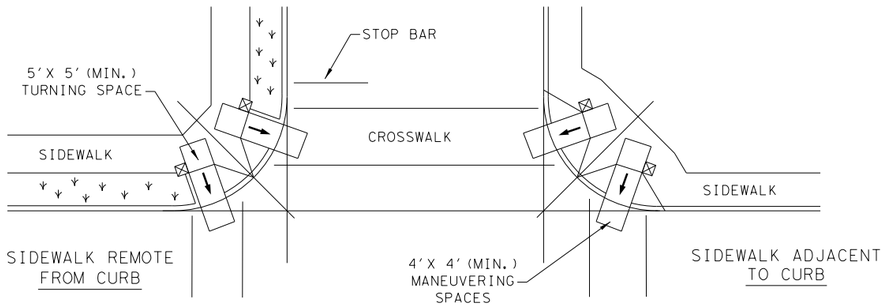
TYPICAL CROSSING LAYOUTS
SEE SHEET 1 OF 4 FOR DETAILS AND DIMENSIONS



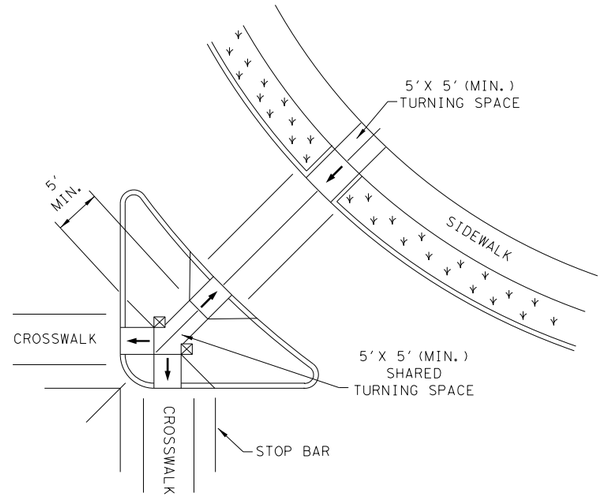
SKEWED INTERSECTION WITH "LARGE" RADIUS



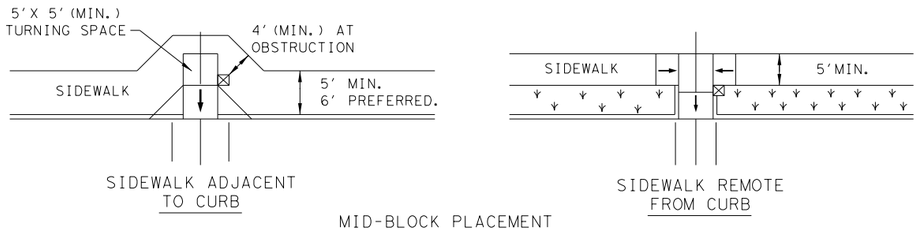
SKEWED INTERSECTION WITH "SMALL" RADIUS



NORMAL INTERSECTION WITH "SMALL" RADIUS



AT INTERSECTION
W/FREE RIGHT TURN & ISLAND



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.

SHEET 4 OF 4

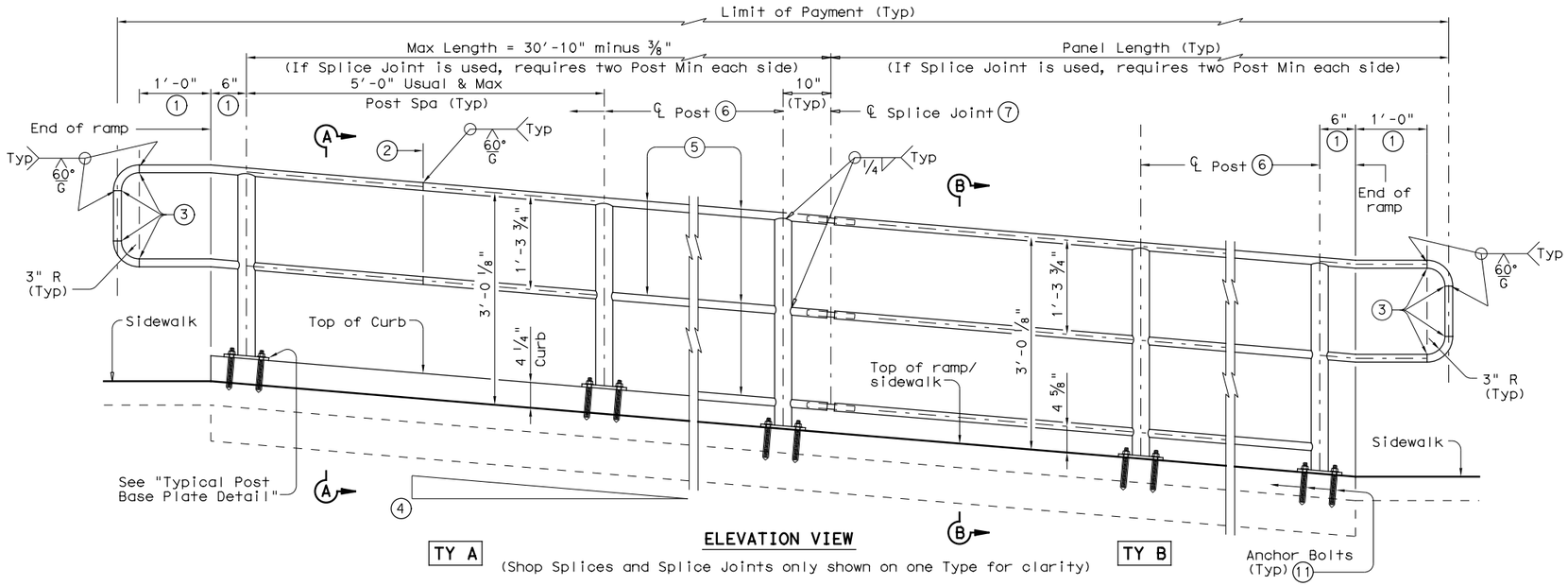
Texas Department of Transportation

Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

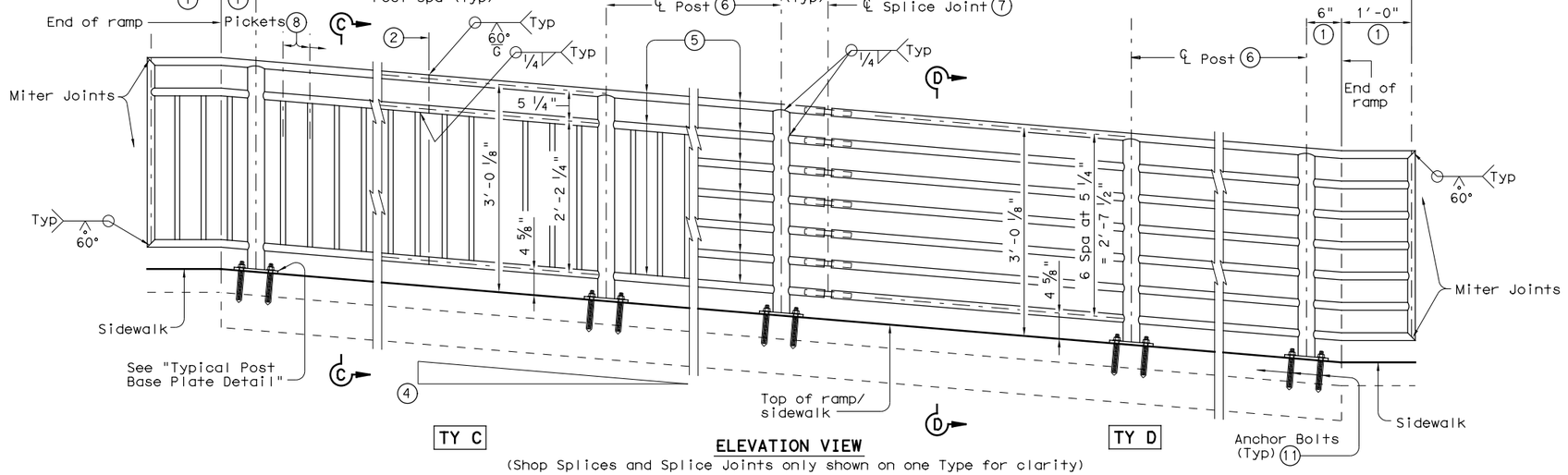
PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
© TxDOT: MARCH, 2002	CONT	SECT	JOB	HIGHWAY
REVISIONS	902	41	2	US 67, ETC
REVISED 08, 2005 REVISED 06, 2012 REVISED 01, 2018	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		141



ELEVATION VIEW

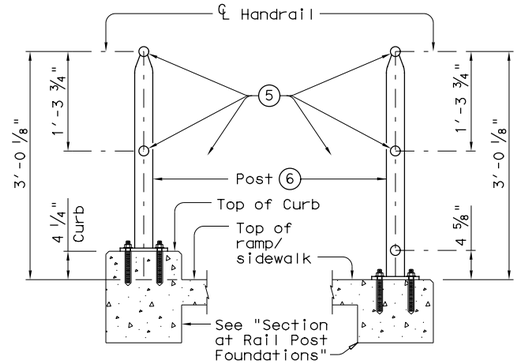
(Shop Splices and Splice Joints only shown on one Type for clarity)



ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

RECOMMENDED USAGE (9)(10)	
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

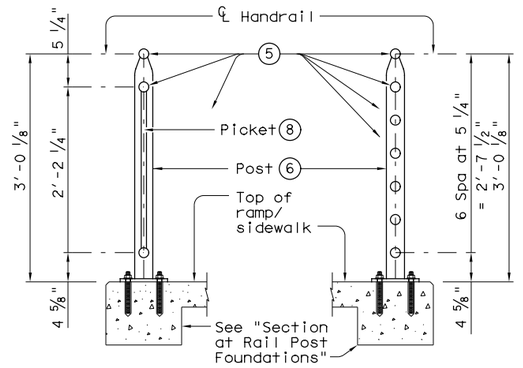


SECTION A-A

(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.

DATE: 5/3/2024
FILE: prd13.dgn

SHEET 1 OF 3

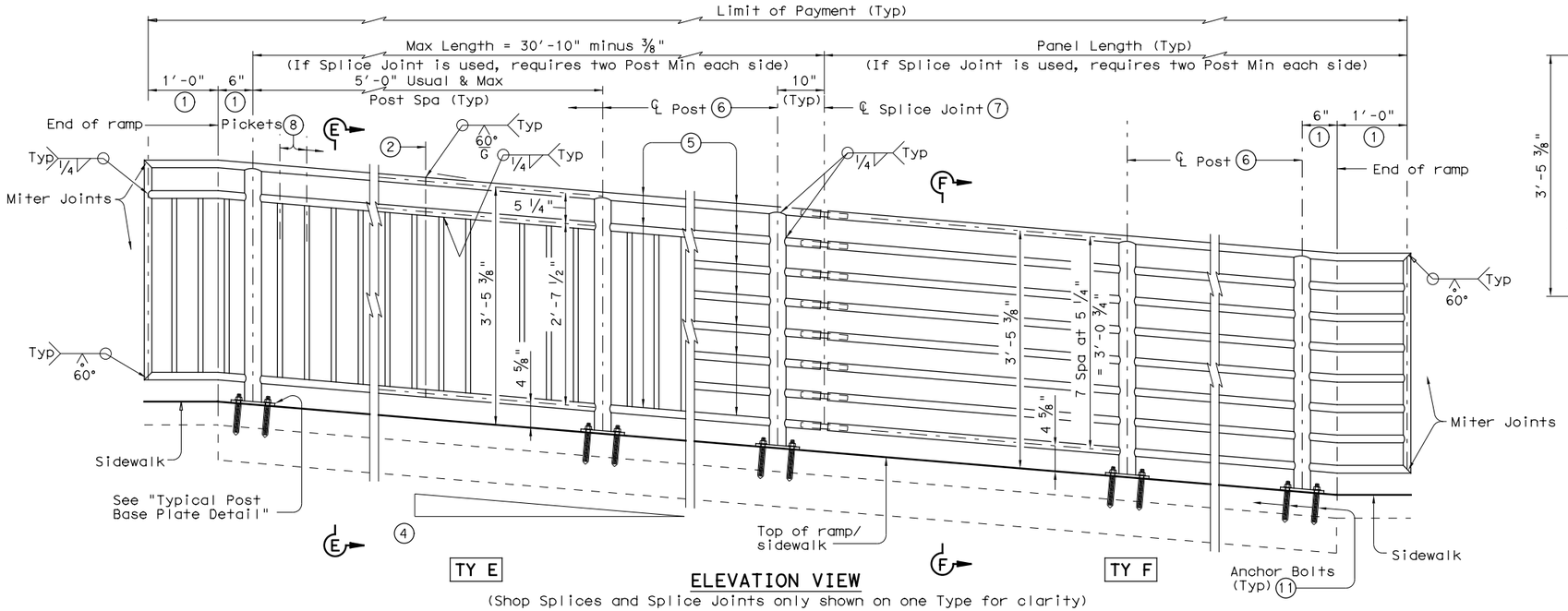
Texas Department of Transportation

Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

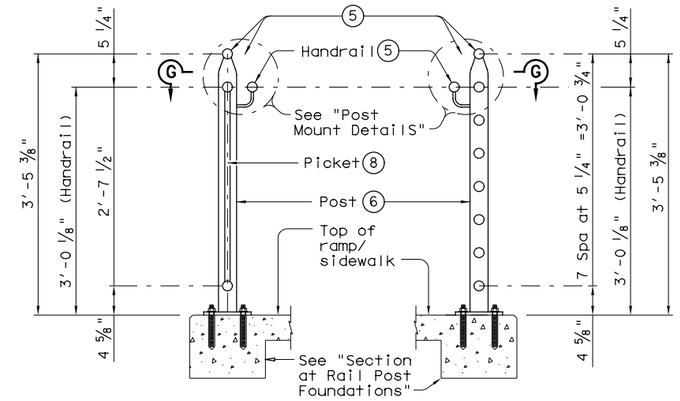
PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT Decmeber 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		141A



ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

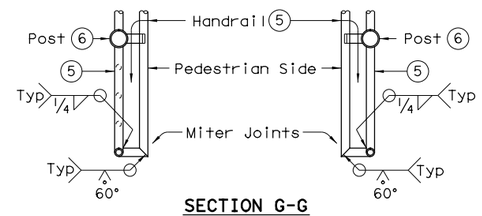


SECTION E-E

(Showing Handrail **TY E**)

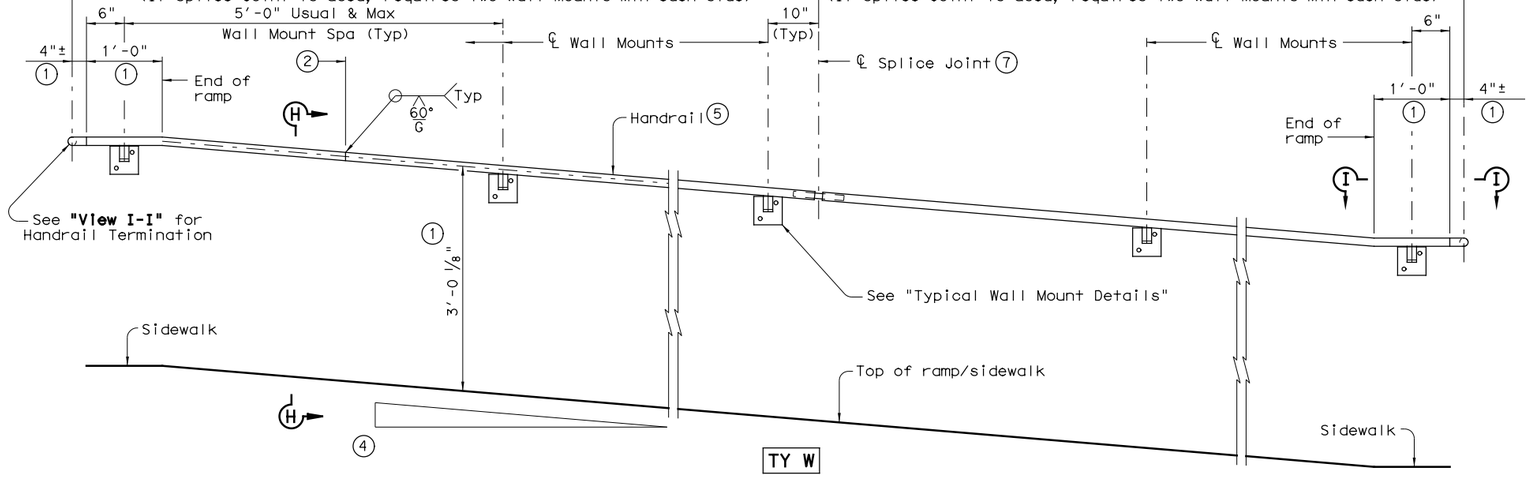
SECTION F-F

(Showing Handrail **TY F**)

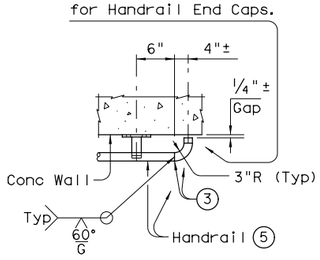


SECTION G-G

(Showing Handrail Termination)

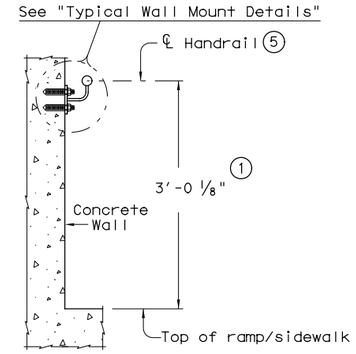


ELEVATION VIEW



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.

Texas Department of Transportation — Design Division Standard

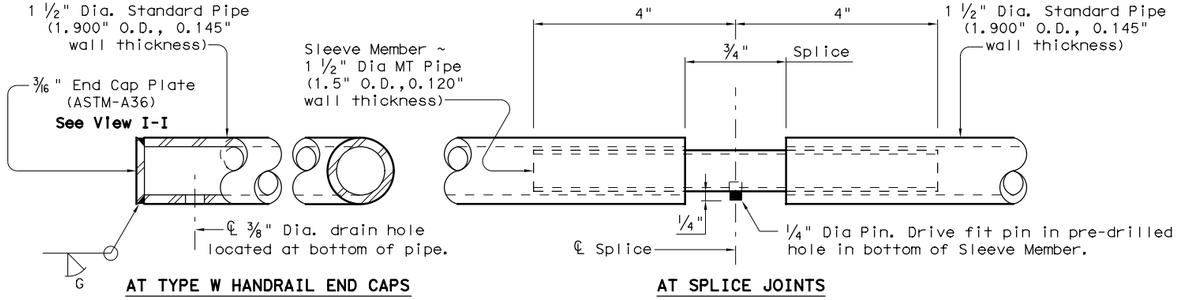
PEDESTRIAN HANDRAIL DETAILS

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)	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		141B

DATE: 5/3/2024
FILE: prd13.dgn

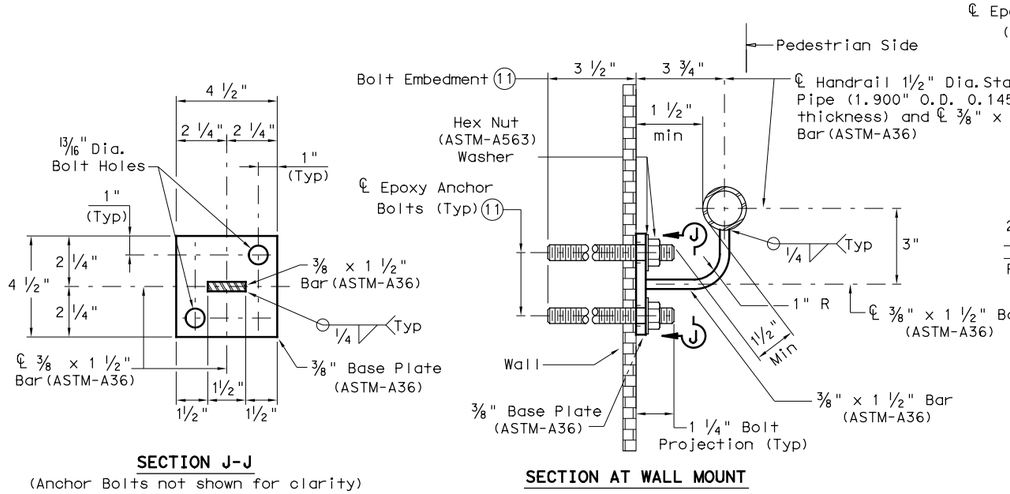
DATE: 5/3/2024
FILE: prd13.dgn



AT TYPE W HANDRAIL END CAPS

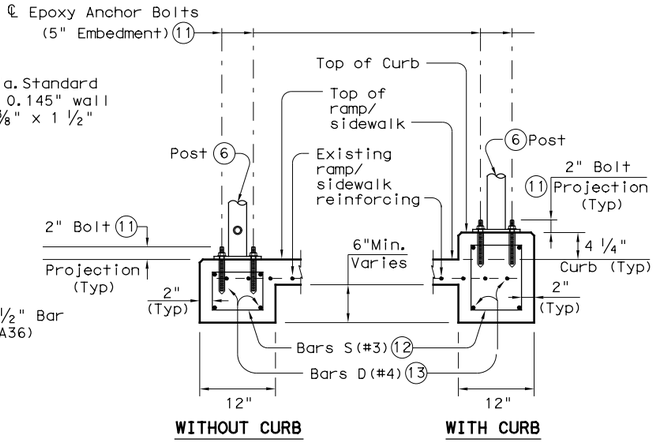
AT SPLICE JOINTS

HANDRAIL FABRICATION DETAILS



SECTION J-J
(Anchor Bolts not shown for clarity)

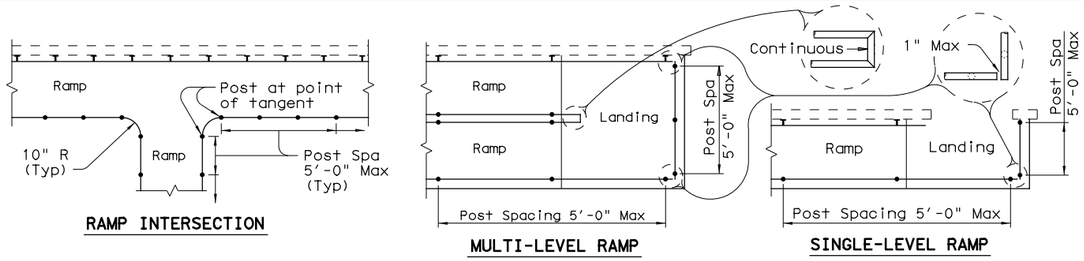
SECTION AT WALL MOUNT



WITHOUT CURB

WITH CURB

SECTION AT RAIL POST FOUNDATIONS



RAMP INTERSECTION

MULTI-LEVEL RAMP

SINGLE-LEVEL RAMP

PLAN SHOWING RAIL AT RAMP CONDITIONS

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 ⅝" Dia. ASTM A36 threaded rods with one hex nut and one hardened steel washer at each bolt. ⅝" 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 ⅝" 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 ⅛" by grinding.

TYPICAL WALL MOUNT DETAILS

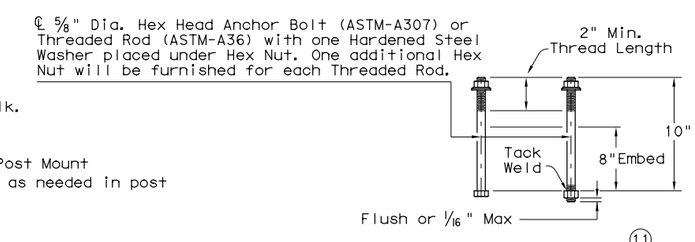
(5) 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp/sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.

(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.

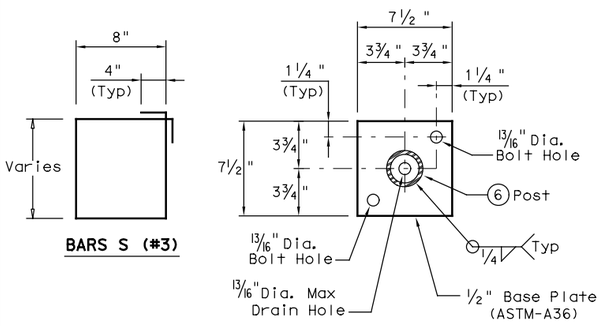
(11) See "General Notes" for anchor bolt information.

(12) Bars S(#3) spaced at 12" Max (Spaced 3" from outside edge of overall length of Ramp/Sidewalk).

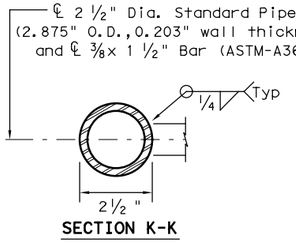
(13) Provide 1 ½" end cover to Bars D(#4) from outside edge of overall length of Ramp/Sidewalk.



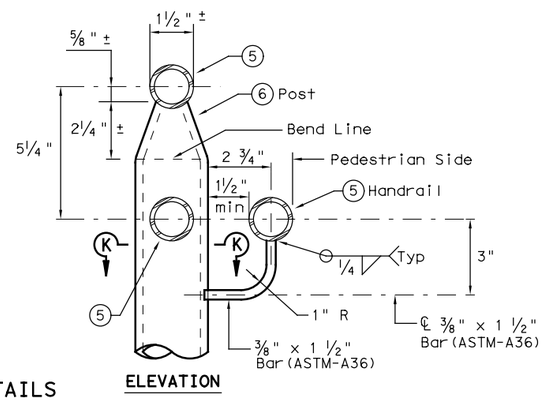
CAST-IN-PLACE ANCHOR BOLT OPTIONS
(Used for Post Base Plate only)



TYPICAL POST BASE PLATE DETAIL



SECTION K-K



ELEVATION

POST MOUNT DETAILS

SHEET 3 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	902	41	2	US 67, ETC
REVISED MAY, 2013 (VP)	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		141C

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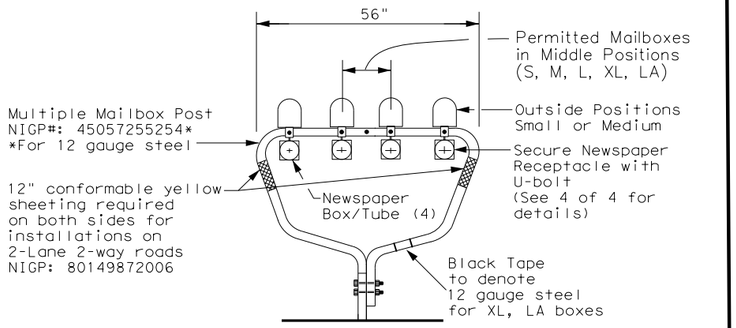
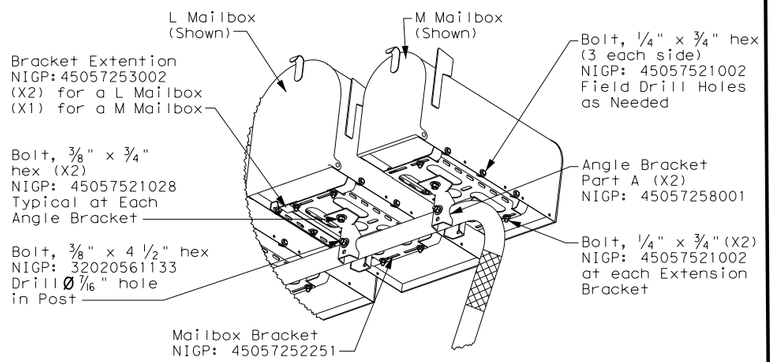
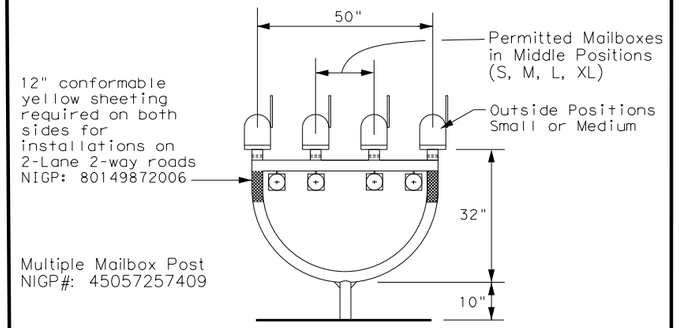
FILE: mb-21(1).dgn

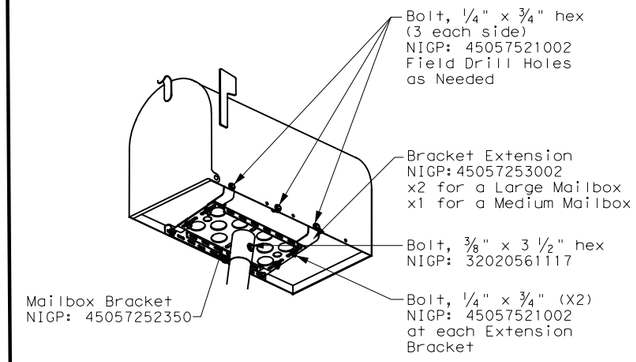
TYPE 1 - MULTIPLE





TYPE 4 - MULTIPLE





MAILBOX SIZES

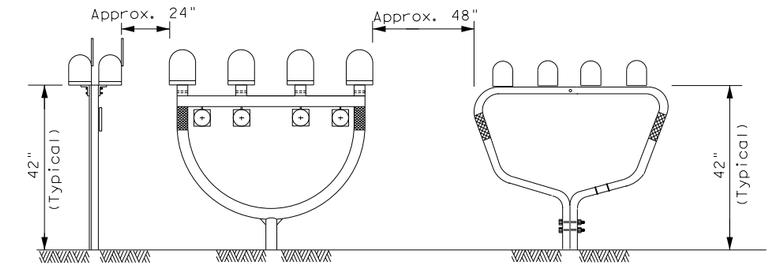
MAILBOX SIZE	TYPICAL DIMENSIONS			MAX ** WEIGHT
	LENGTH	WIDTH	HEIGHT	
SMALL	19 1/2"	6"	7"	6 LBS
MEDIUM	22 1/2" *	8" *	11 1/2" *	8 LBS
LARGE	23 1/2"	11 1/2"	13 1/2"	11 LBS
EXTRA LARGE	18"	14"	12"	13 LBS
LOCKABLE	18"	11 1/2"	15"	23 LBS

* See Note 1.
** Excluding Molded Plastic on 4 X 4 Post

GENERAL NOTES:

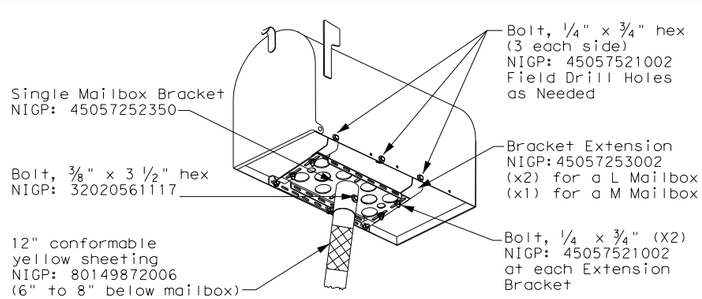
1. Dimensions shown (length, width, and height) are typical, not maximums. However, anytime a medium size mailbox is mounted on a single/double mount or on the outside position on a multi mount, the dimensions shown are maximums.
2. Mailboxes shall be made of light weight sheet metal or light weight plastic. Heavy steel, cast iron or decorative mailboxes shall not be used on the state highway system.

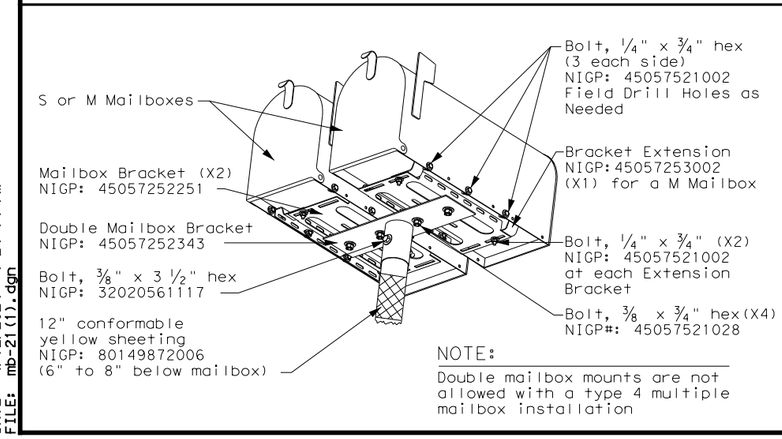
TYPICAL INSTALLATION MEASUREMENTS



NOTE:
Mailbox installations in sidewalk areas shall be in accordance with the latest TxDOT Design Standard sheets PED-Pedestrian Facilities Curb Ramps.

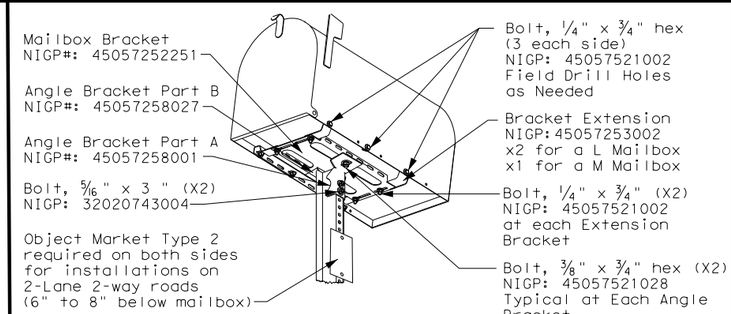
TYPE 2 and 4 - SINGLE/DOUBLE

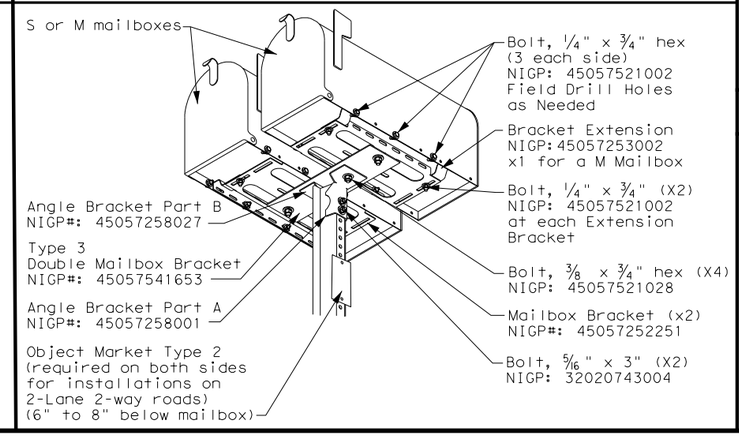




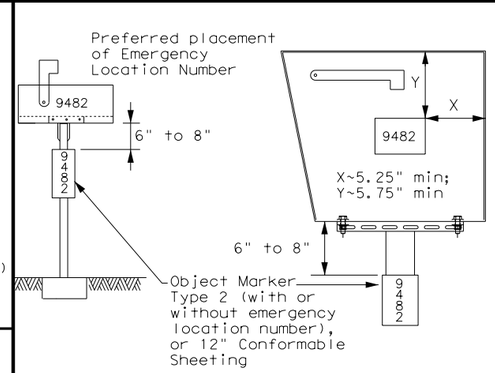
NOTE:
Double mailbox mounts are not allowed with a type 4 multiple mailbox installation

TYPE 3 - SINGLE/DOUBLE





PLACEMENT OF EMERGENCY LOCATION NUMBER

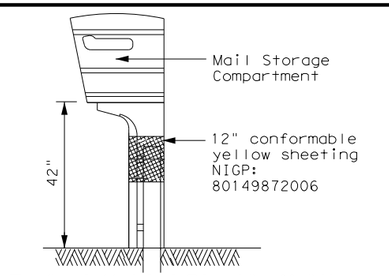


NOTES:

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	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		142

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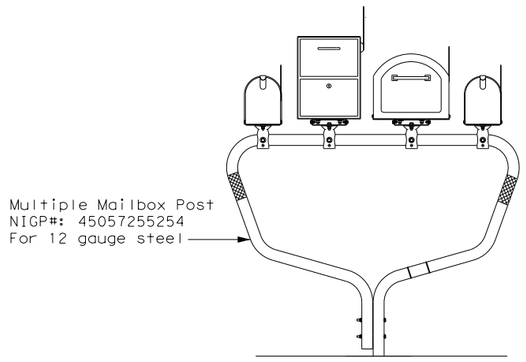
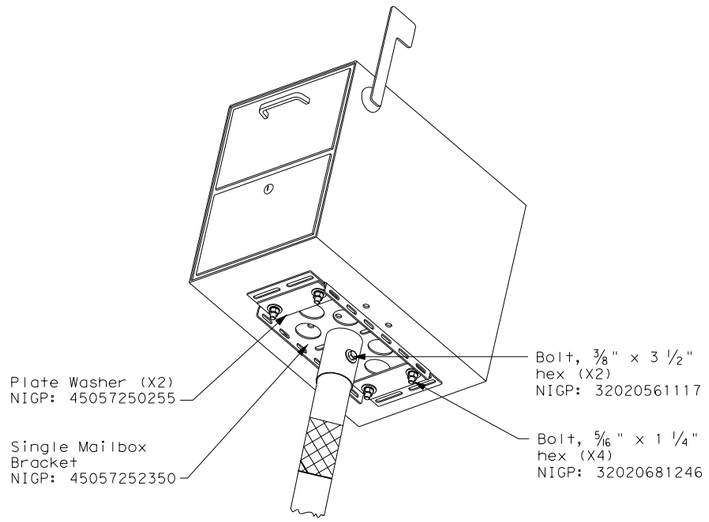
FILE: mb-21(1).dgn

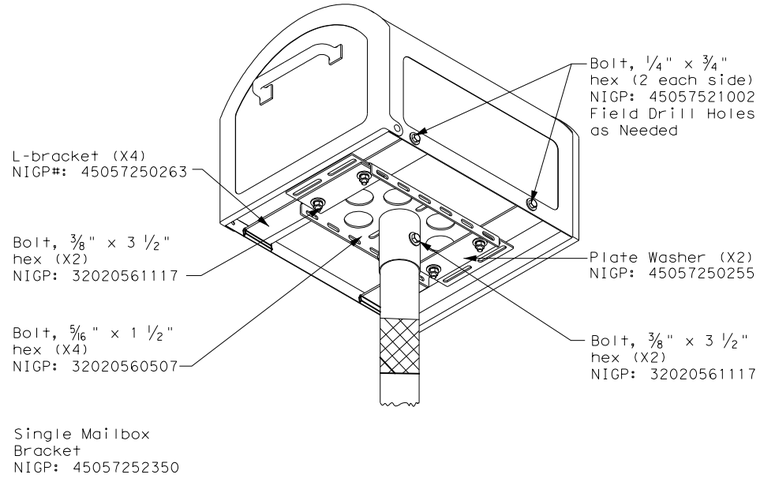
TYPE 1- MULTI LOCKABLE AND XL MAILBOX



TYPE 2/4 - SINGLE LOCKABLE MAILBOX

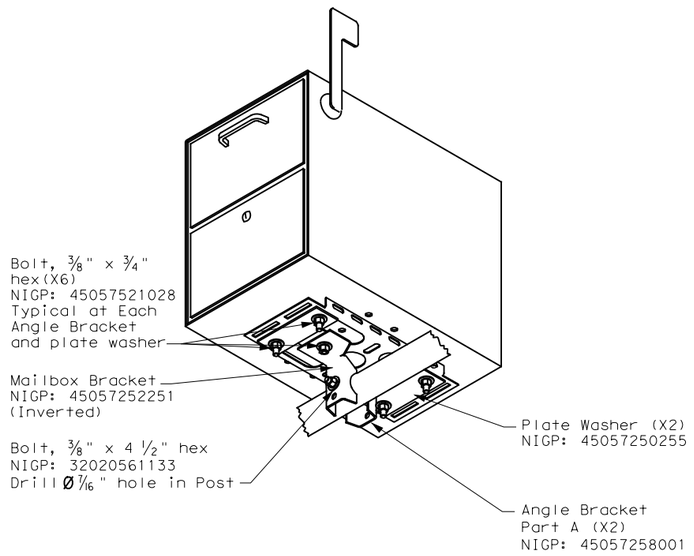


TYPE 2/4 - SINGLE XL MAILBOX

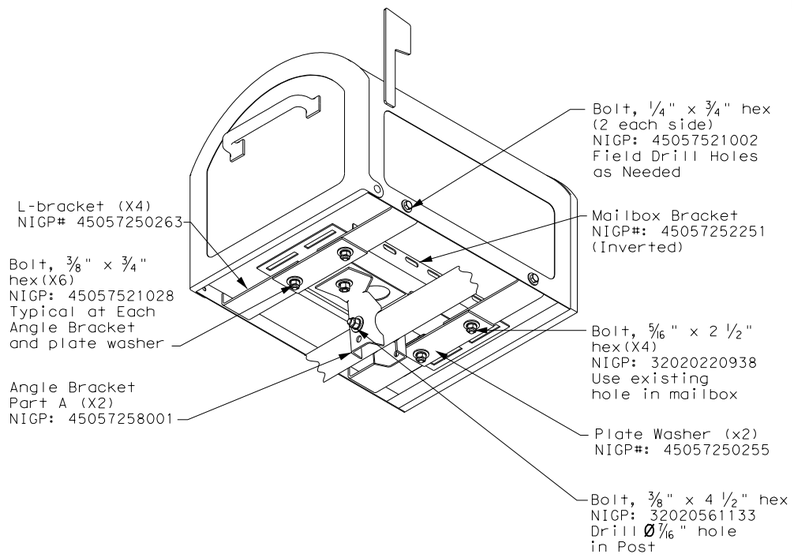


NOTE:
Follow same configuration when mounting an XL mailbox on a Type 4 multi post.

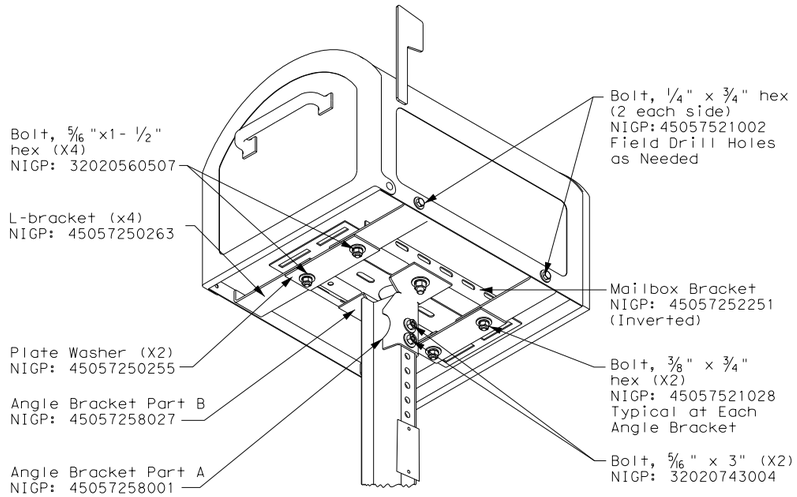
TYPE 1 MULTI – LOCKABLE ARCHITECTURAL (LA)



TYPE 1 MULTI – XL MAILBOX



TYPE 3 - XL MAILBOX MOUNTING



Texas Department of Transportation

Maintenance Division Standard

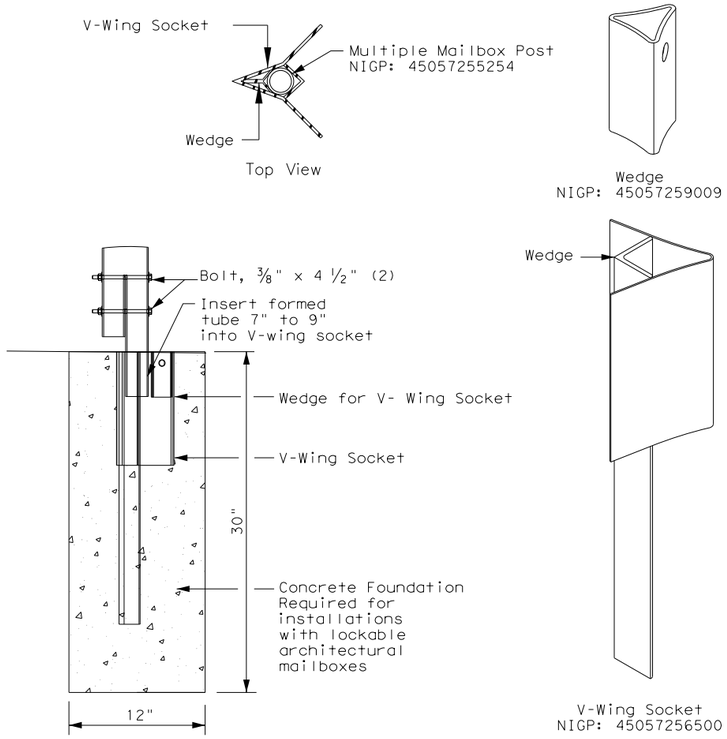
XL AND LOCKABLE ARCHITECTURAL MAILBOX ASSEMBLY

MB(2)-21

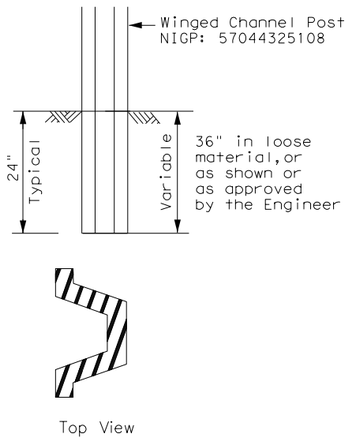
FILE: MB-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT March 2004	CONT	SECT	JOB	HIGHWAY
REVISIONS 2/2005 11/2009 4/2015 6/2005 1/2011 11/2006 7/2014	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		143

DATE: 4/12/2024 4:22:41 PM
FILE: mb-21(1).dgn

TYPE 1 - SUPPORT/FOUNDATION
Thin Wall Tube w/ V-LOC Anchorage

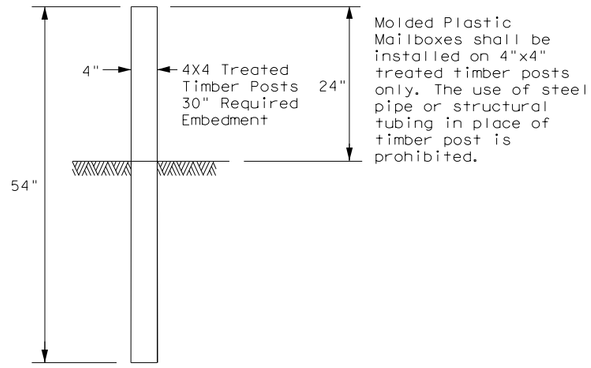


TYPE 3 - SUPPORT/FOUNDATION

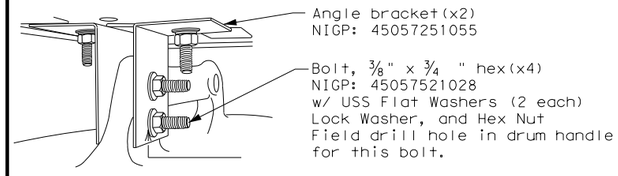


NOTES:
1. Attach Object Marker(OM) facing direction of traffic.
2. OM will also be required on opposite side if installed on a 2-Lane, 2-Way roadway.

TYPE 5 - SUPPORT/FOUNDATION



TYPE 6 - TEMPORARY MAILBOX SUPPORT

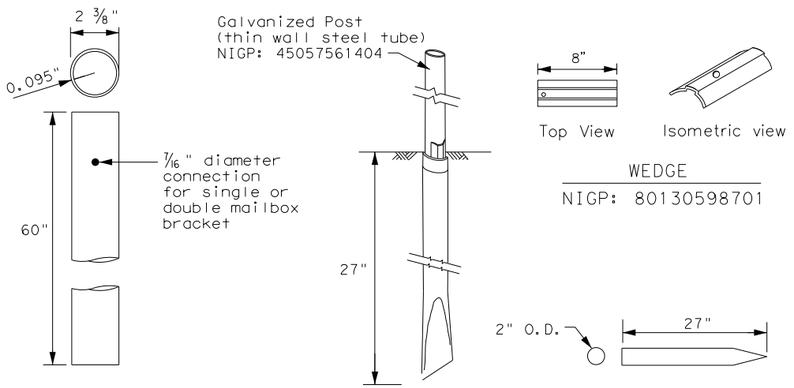


Plastic Drum NIGP: 55093383655
Rubber Collar NIGP: 55093387102

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

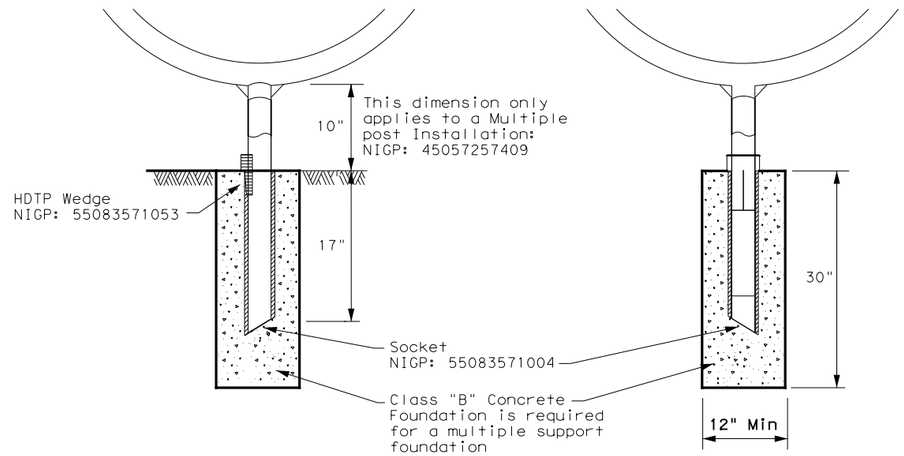
TYPE 2 - SUPPORT/FOUNDATION
Thin Wall Steel Tube w/Wedge Anchor System



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	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		144

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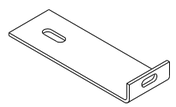
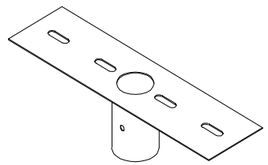
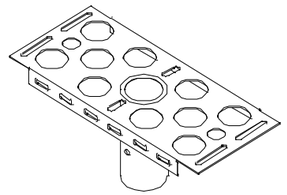
TYPE	TYPE 1	TYPE 2	TYPE 3	TYPE 4			TYPE 5	TYPE 6
Configuration	Multiple	Single or Double	Single or Double	Single	Double	Multiple	Single	Single
Mailbox Size NIGP #	Outside Position: S or M Inside Position: S, M, L, XL, or LA	Single: S, M, L, XL, or LA Double: SS, SM, MM	Single: S, M, L, or XL Double: 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



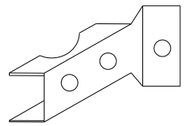
NIGP: 45057250263
L-Bracket x4 for
XL sized mailboxes



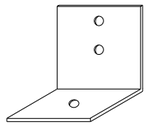
NIGP: 45057252343
Double Mailbox Bracket
For Type 2 and Type 4
double mount



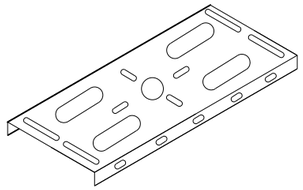
NIGP: 45057252350
Single Mailbox Bracket
For Type 2 single and for
Type 4 single and multi mount



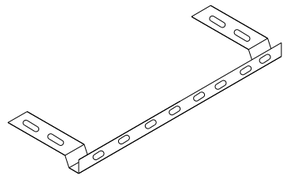
NIGP: 45057258001
Part "A" Angle Bracket
For Type 1 multi (2 per mailbox)
and Type 3 single and double



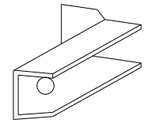
NIGP: 45057251055
Type 6 Angle Bracket
(2 per mailbox)



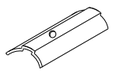
NIGP: 45057252251
Mailbox Bracket
For Type 1 multi and
any double mount (use 2)



NIGP: 45057253002
Bracket Extension
Use 1 for a medium Mailbox
Use 2 for a Large Mailbox



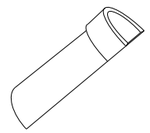
NIGP: 45057258027
Part "B" Angle Bracket
For Type 3 single
and double



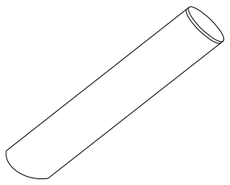
NIGP: 80130598701
Wedge for Type 2

NIGP: 45057250255
Plate Washer for Architecural
and XL Mailboxes

NIGP: 45057541653
Type 3 double mailbox bracket

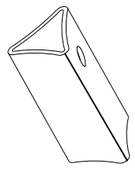


NIGP: 55083571053
Type 4 Mailbox Wedge

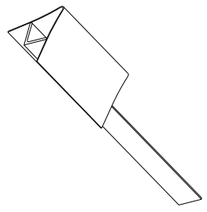


NIGP: 55083571004
Type 4 Mailbox Socket

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

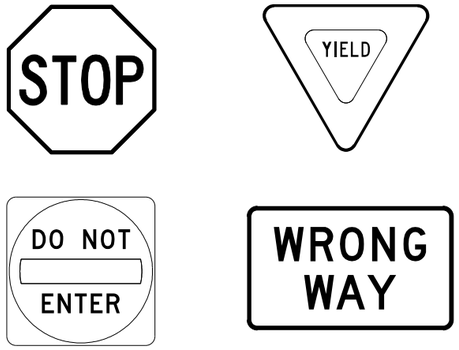
MB(4)-21

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	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		145

DATE: 4/12/2024 4:24:15 PM
FILE: mb-21(1).dgn

REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS

(STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)



REQUIREMENTS FOR FOUR SPECIFIC SIGNS ONLY

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	WHITE	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE B OR C SHEETING
LEGEND	RED	TYPE B OR C SHEETING

REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS

(EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND, BORDERS AND SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
6. Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
8. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

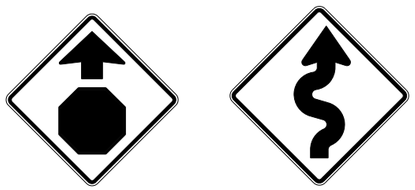
ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

REQUIREMENTS FOR WARNING SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLOURESCENT YELLOW	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR SCHOOL SIGNS

TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	FLOURESCENT YELLOW GREEN	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
SYMBOLS	RED	TYPE B OR C SHEETING

Texas Department of Transportation

Traffic Operations Division Standard

TYPICAL SIGN REQUIREMENTS

TSR(4)-13

FILE: tsr4-13.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
© TxDOT October 2003	CONT	SECT	JOB	HIGHWAY
REVISIONS	902	41	2	US 67, ETC
12-03 7-13	DIST	COUNTY		SHEET NO.
9-08	FTW	SOMERVELL		146

4

DATE: 4/12/2024 4:24:23 PM
FILE: tsr4-13 (2).dgn

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

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)

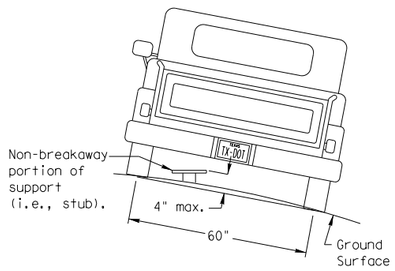
Anchor Type

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

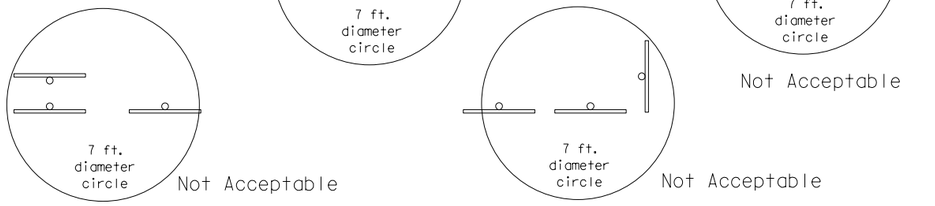
P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
IF REQUIRED
1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))
BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
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



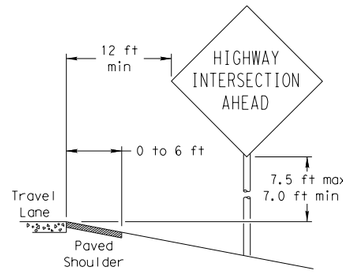
To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).

No more than 2 sign posts should be located within a 7 ft. circle.



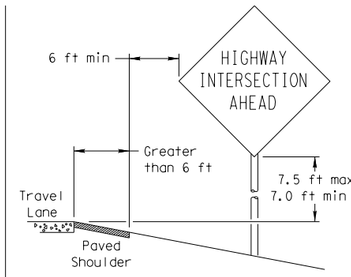
SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

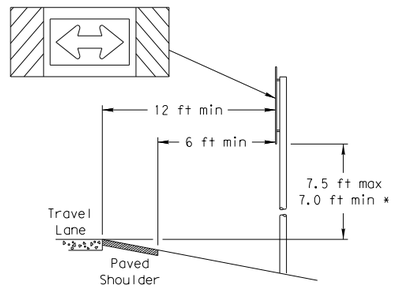
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



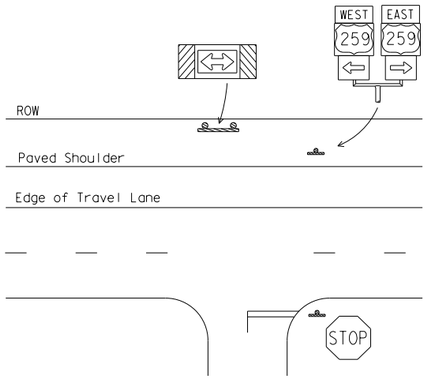
GREATER THAN 6 FT. WIDE

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.

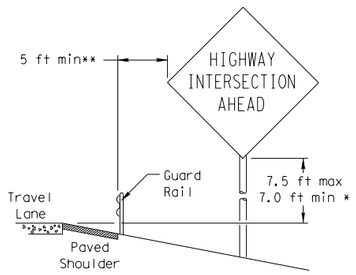
T-INTERSECTION



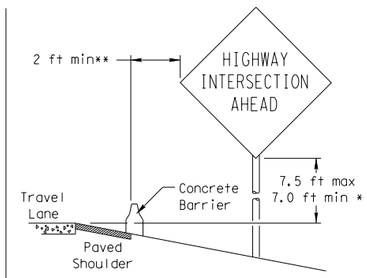
When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.



BEHIND BARRIER



BEHIND GUARDRAIL



BEHIND CONCRETE BARRIER

**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

* 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.

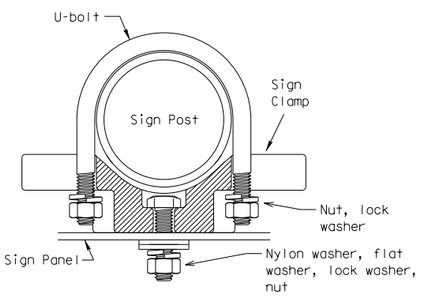
The maximum values may be increased when directed by the Engineer.

See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

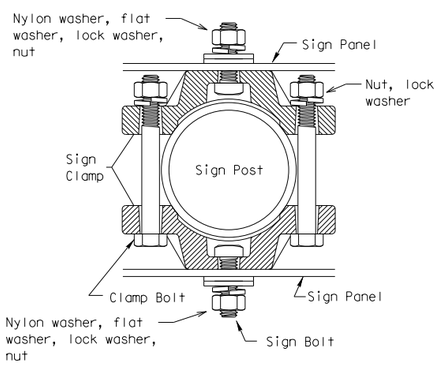
The website address is:
http://www.txdot.gov/publications/traffic.htm

TYPICAL SIGN ATTACHMENT DETAIL

Single Signs



Back-to-Back Signs



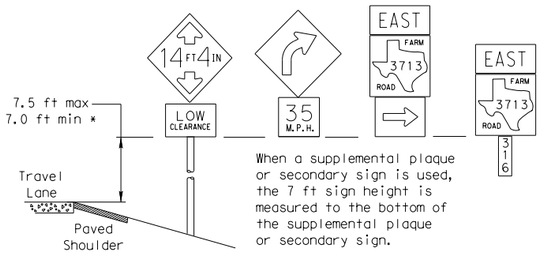
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

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.

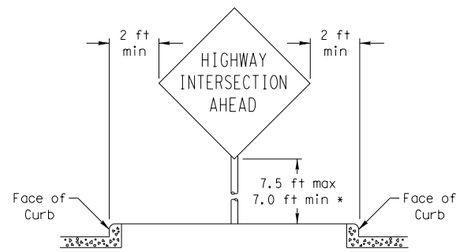
Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

SIGNS WITH PLAQUES



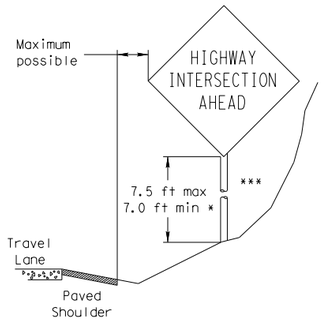
When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

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

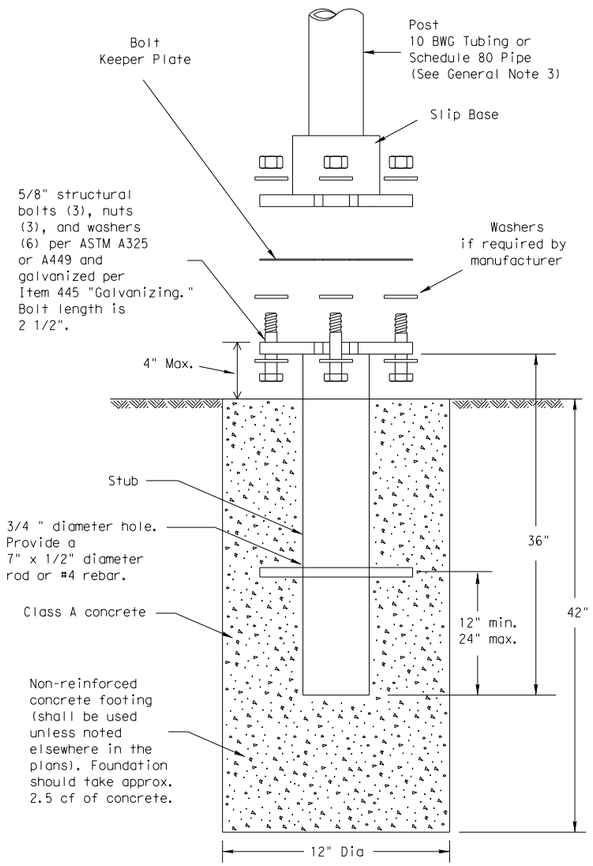
SMD(GEN)-08

REVISIONS	DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
9-08	CONT	SECT	JOB	HIGHWAY
	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		147

26A

DATE:4/12/2024 4:24:32 PM
FILE:smdgen.dgn

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.

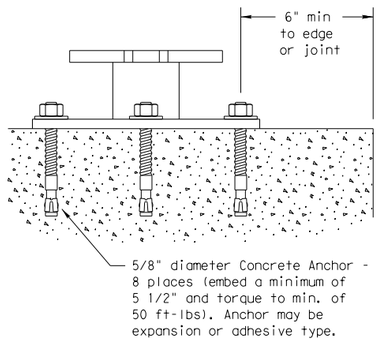
   Schedule 80 Pipe (2.875" outside diameter)
   - 0.276" nominal wall thickness
   - Steel tubing per ASTM A500 Gr C
   - Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
     - 46,000 PSI minimum 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
902	41	2	US 67, ETC

DIST	COUNTY	SHEET NO.
FTW	SOMERVELL	148

26B

DATE: 4/12/2024 4:24:40 PM
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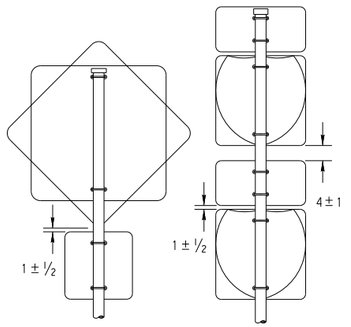
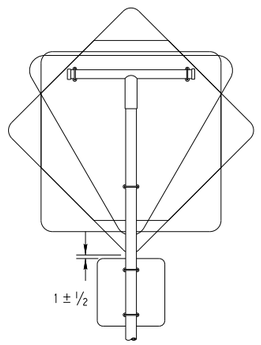
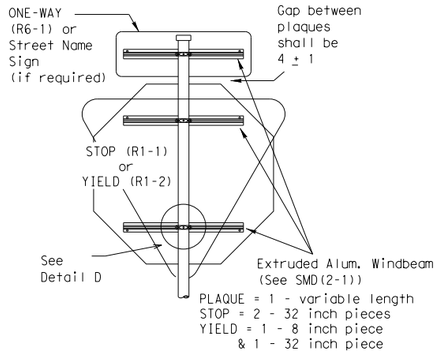


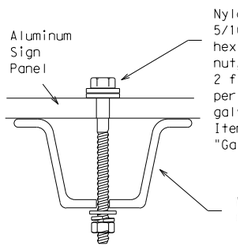
SM RD SGN ASSM TY XXXXX(1)XX(P)



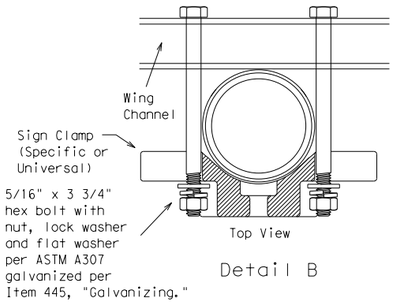
SM RD SGN ASSM TY XXXXX(1)XX(T)



SM RD SGN ASSM TY XXXXX(1)XX(P-BM)



Detail A



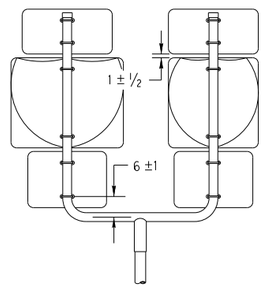
Detail B

GENERAL NOTES:

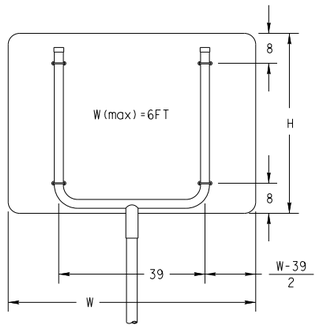
1.

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

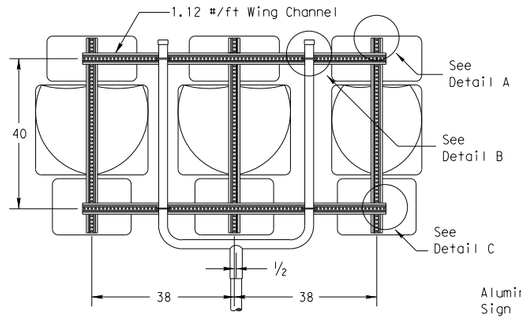
2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
4. Aluminum sign blanks shall conform to Departmental Material 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.



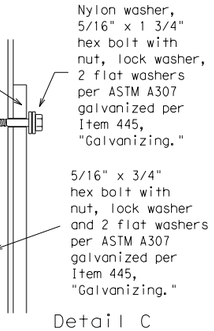
SM RD SGN ASSM TY XXXXX(1)XX(U)



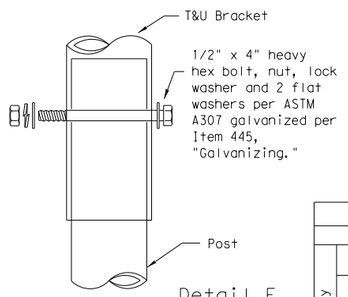
SM RD SGN ASSM TY XXXXX(1)XX(U)



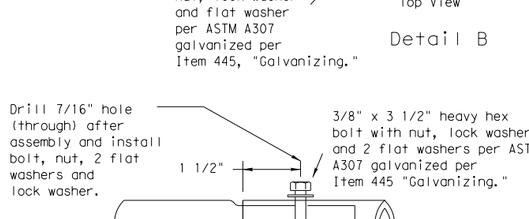
SM RD SGN ASSM TY XXXXX(1)XX(U-WC)
(See Note 11)



Detail C

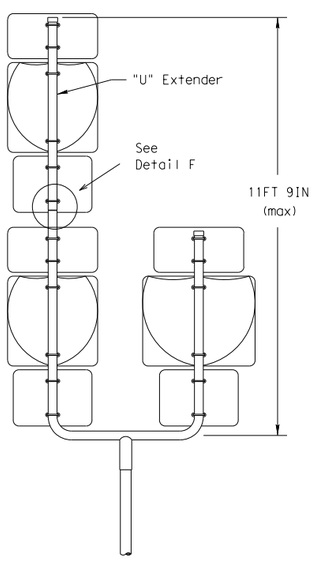


Detail E

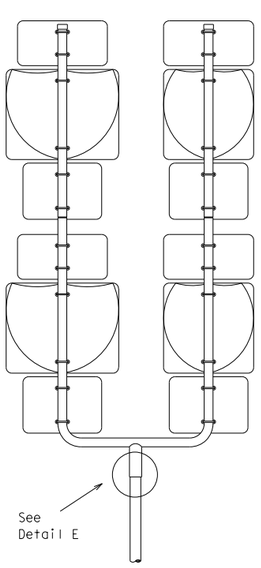


Detail F

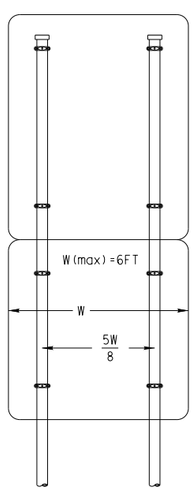
Splices shall only be allowed behind the sign substrate.



SM RD SGN ASSM TY S80(1)XX(U-1EXT)

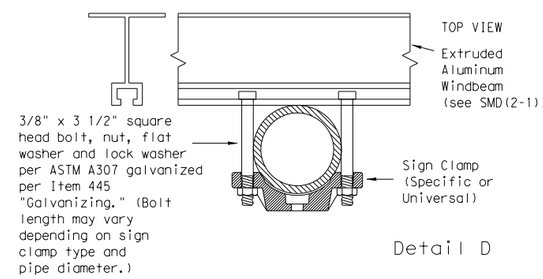


SM RD SGN ASSM TY S80(1)XX(U-2EXT)

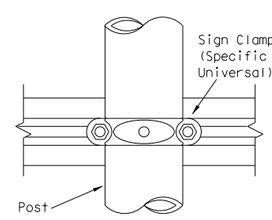


SM RD SGN ASSYM TY XXXXX(2)XX(P)

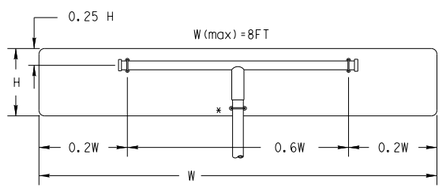
SIDE VIEW



Detail D



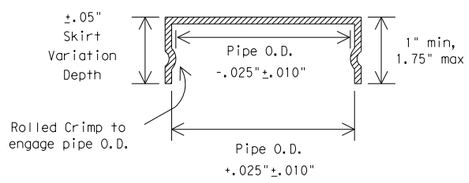
REQUIRED SUPPORT		
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	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

DN: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
CONT	SECT	JOB	HIGHWAY
902	41	2	US 67, ETC
DIST	COUNTY		SHEET NO.
FTW	SOMERVELL		149

9-08 REVISIONS

26C

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FILE: smds2.dgn

SUMMARY OF SMALL SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS	FLAT ALUMINUM (TYPE A)	EXAL ALUMINUM (TYPE G)	SM RD SGN ASSM TY XXXXX (X) XX (X-XXXX) POST TYPE: FRP = Fiberglass, TWT = Thin-Wall, 10BWG = 10 BWG, S80 = Sch 80	POSTS: 1 or 2	ANCHOR TYPE: UA=Universal Conc, UB=Universal Bolt, SA=Slipbase-Conc, SB=Slipbase-Bolt, WS=Wedge Steel, WP=Wedge Plastic	MOUNTING DESIGNATION: PREFABRICATED: P = "Plain", T = "T", U = "U"	MOUNTING DESIGNATION: 1EXT or 2EXT = # of Ext, BM = Extruded Wind Beam, WC = 1.12 #/ft Wing Channel, EXAL= Extruded Alum Sign Panels	BRIDGE MOUNT CLEARANCE SIGNS (See Note 2) TY = TYPE: TY N, TY S
2	1	R2-1	SPEED LIMIT (20 MPH)	N/A - EXISTING			10BWG	1	SA	P		
2		X	SCHOOL ZONE	N/A - EXISTING								
2		X	CELL PHONE USE PROHIBITED	N/A - EXISTING								
6	2	S5-2	END SCHOOL ZONE	N/A - EXISTING			10BWG	1	SA	P		
7	3	W8-18	ROAD MAY FLOOD	N/A - EXISTING			10BWG	1	SA	P		
8	4	R1-1	STOP SIGN	N/A - EXISTING			10BWG	1	SA	P		
8	5	W11-2	PEDESTRIAN	30" X 30"	X		10BWG	1	SA	P		
8		W16-7P	DOWNWARD DIAGONAL ARROW	24" X 12"	X							
8	6	R2-1	SPEED LIMIT (15 MPH)	N/A - EXISTING			10BWG	1	SA	P		
8		X	CHILDREN AT PLAY	N/A - EXISTING								
8	7	W11-2	PEDESTRIAN	30" X 30"	X		10BWG	1	SA	P		
8		W16-7P	DOWNWARD DIAGONAL ARROW	24" X 12"	X							
10	8	R1-1	STOP SIGN	N/A - EXISTING			10BWG	1	SA	P		
16	9	R1-1	STOP SIGN	N/A - EXISTING			10BWG	1	SA	P		
21	10	R2-1	SPEED LIMIT (15 MPH)	N/A - EXISTING			10BWG	1	SA	P		
21		X	CHILDREN AT PLAY	N/A - EXISTING								
21	11	S5-2	END SCHOOL ZONE	N/A - EXISTING			10BWG	1	SA	P		
30	12	W11-3	LARGE ANIMALS (DEER)	N/A - EXISTING			10BWG	1	SA	T		
30	13	M3-1	NORTH	N/A - EXISTING			10BWG	1	SA	T		
30		M1-4	ROUTE 67	N/A - EXISTING								
32	14	R2-1	SPEED LIMIT (45 MPH)	N/A - EXISTING			10BWG	1	SA	P		
37	15	R3-9b	TWO-WAY LEFT TURN ONLY (POST-MOUNTED)	N/A - EXISTING			10BWG	1	SA	P		
39	16	W11-12T	WATCH FOR EMERGENCY VEHICLES	N/A - EXISTING			10BWG	1	SA	T		
40	17	R2-1	SPEED LIMIT (45 MPH)	N/A - EXISTING			10BWG	1	SA	P		
42	18	X	NO PARKING VIOLATORS WILL BE TOWED AWAY AT OWNER'S EXPENSE	N/A - EXISTING			10BWG	1	SA	P		
45	19	S5-2	END SCHOOL ZONE	N/A - EXISTING			10BWG	1	SA	P		
45	20	S1-1	SCHOOL CROSSING (SYMBOL)	30" x 30"	X		10BWG	1	SA	P		
45		SW16-7P	DOWNWARD DIAGONAL ARROW	21" x 15"	X							
45	21	S1-1	SCHOOL CROSSING (SYMBOL)	30" x 30"	X		10BWG	1	SA	P		
45		SW16-7P	DOWNWARD DIAGONAL ARROW	21" x 15"	X							
5	22	R1-1	STOP SIGN	N/A - EXISTING			10BWG	1	SA	P		
16	23	M1-6F	FARM ROAD 56	N/A - EXISTING			10BWG	2	SA	P		
		M6-1	LEFT ARROW	N/A - EXISTING								
		M1-6F	205	N/A - EXISTING								
		M6-1	RIGHT ARROW	N/A - EXISTING								

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080"
7.5 to 15	0.100"
Greater than 15	0.125"

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

http://www.txdot.gov/

NOTE:

1. Sign supports shall be located as shown on the plans, except that the Engineer may shift the sign supports, within design guidelines, where necessary to secure a more desirable location or to avoid conflict with utilities. Unless otherwise shown on the plans, the Contractor shall stake and the Engineer will verify all sign support locations.
2. For installation of bridge mount clearance signs, see Bridge Mounted Clearance Sign Assembly (BMCS)Standard Sheet.
3. For Sign Support Descriptive Codes, see Sign Mounting Details Small Roadside Signs General Notes & Details SMD(GEN).

Texas Department of Transportation

Traffic Operations Division Standard

SUMMARY OF SMALL SIGNS

SOSS

FILE: sums16.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT May 1987	CONT	SECT	JOB	HIGHWAY
REVISIONS	902	41	2	US 67, ETC
4-16	DIST	COUNTY		SHEET NO.
8-16	FTW	SOMERVELL		150

18

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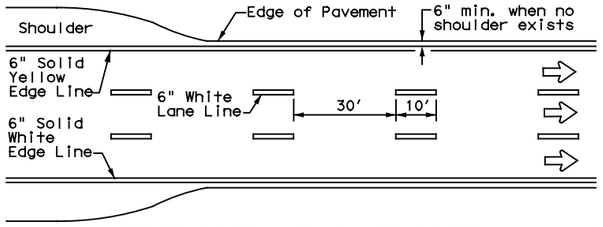
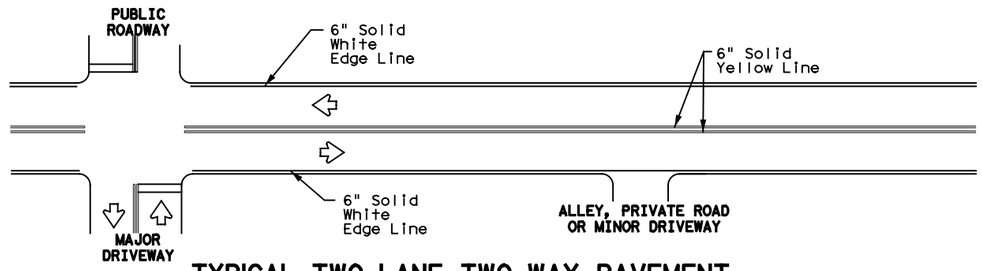
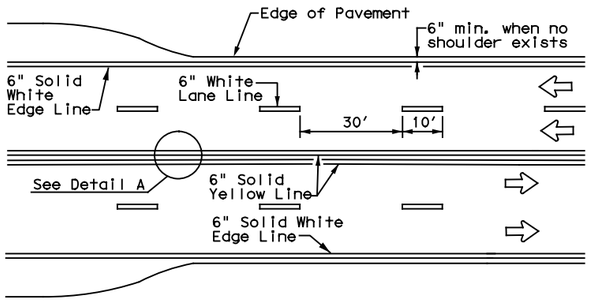
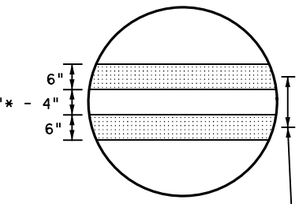


EDGE LINE AND LANE LINES ONE-WAY ROADWAY WITH OR WITHOUT SHOULDERS



TYPICAL TWO-LANE, TWO-WAY PAVEMENT MARKINGS THROUGH INTERSECTIONS





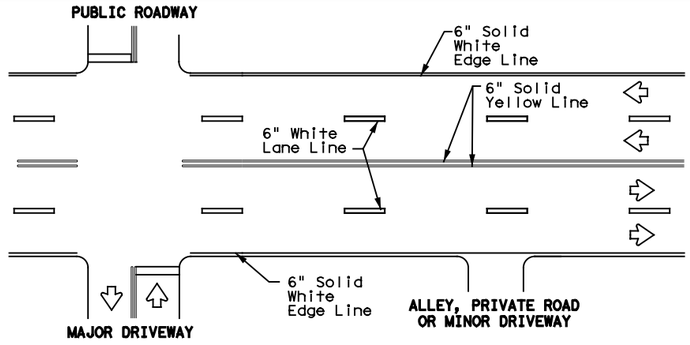
DETAIL "A"

9"** min. - 10" typ.
(18" max. for traveled way greater than 48' only)

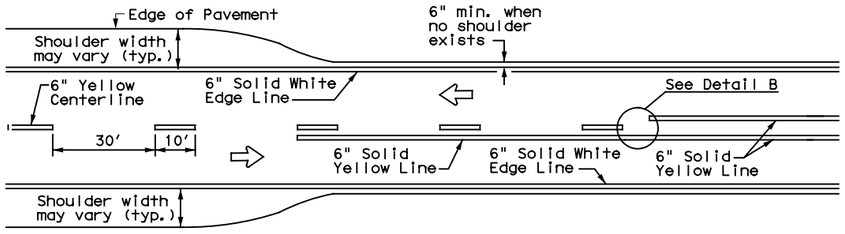
CENTERLINE AND LANE LINES FOUR LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS

* 2" minimum for restripe projects when approved by the Engineer.

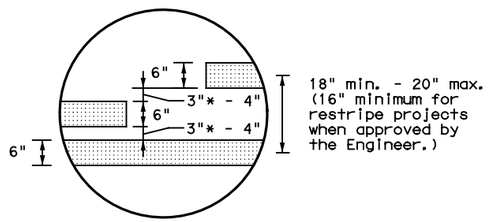
** 8" minimum for restripe projects when approved by the Engineer.



TYPICAL MULTI-LANE, TWO-WAY PAVEMENT MARKINGS THROUGH INTERSECTIONS

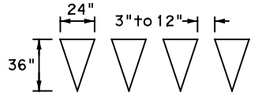


TWO LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS



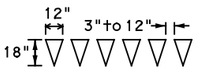
DETAIL "B"

* 2" minimum for restripe projects when approved by the Engineer.

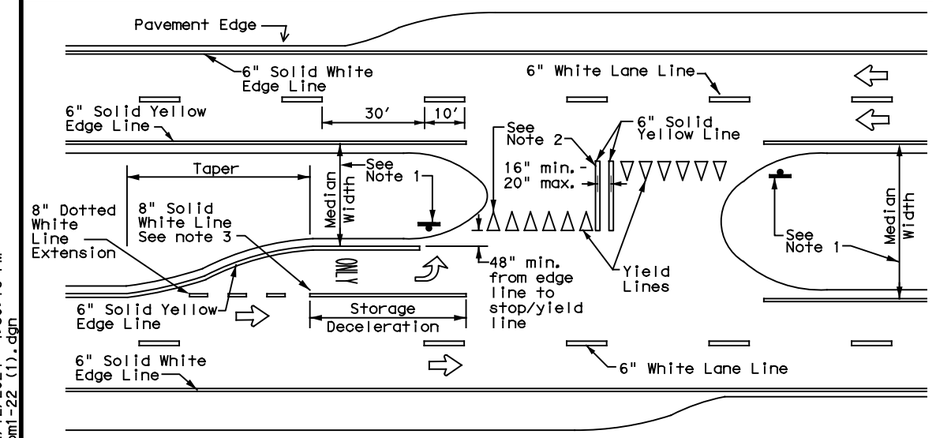


For posted speed on road being marked equal to or greater than 45 MPH.

YIELD LINES



For posted speed on road being marked equal to or less than 40 MPH.



FOUR LANE DIVIDED ROADWAY CROSSOVERS

NOTES

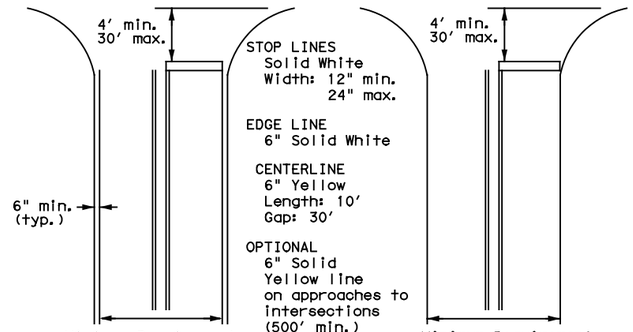
1. Where divided highways are separated by median widths at the median opening itself of 30 feet or more, median openings shall be signed as two separate intersections. Each median opening has two width measurements, with one measurement for each approach. The narrow median width will be the controlling 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
REVISIONS 11-78 8-00 6-20	902	41	2	US 67, ETC
8-95 3-03 12-22	DIST	COUNTY		SHEET NO.
5-00 2-12	FTW	SOMERVELL		151

22A

DATE: 4/12/2024 4:30:16 PM
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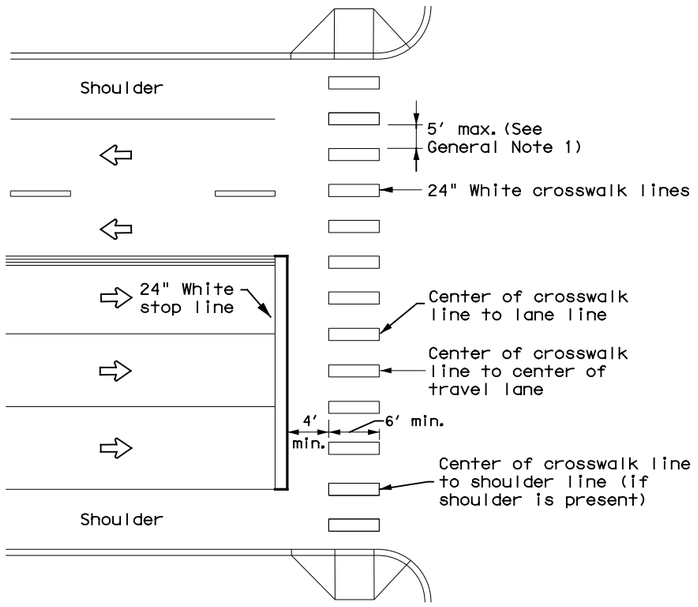


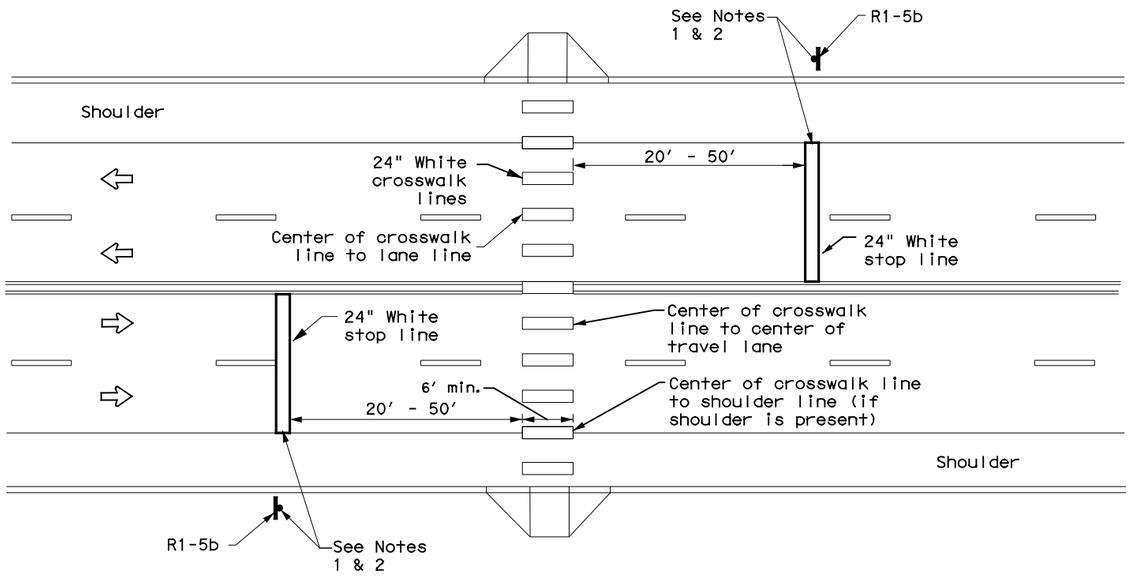
HIGH-VISIBILITY LONGITUDINAL CROSSWALK AT CONTROLLED APPROACH

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.

Texas Department of Transportation

Traffic Safety Division Standard

CROSSWALK PAVEMENT MARKINGS

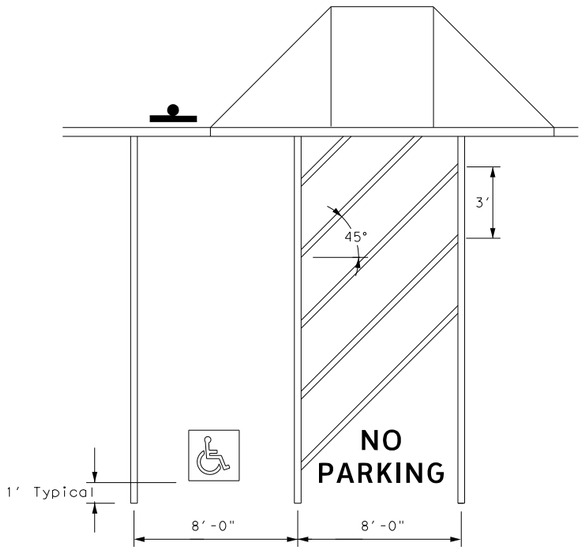
PM(4)-22A

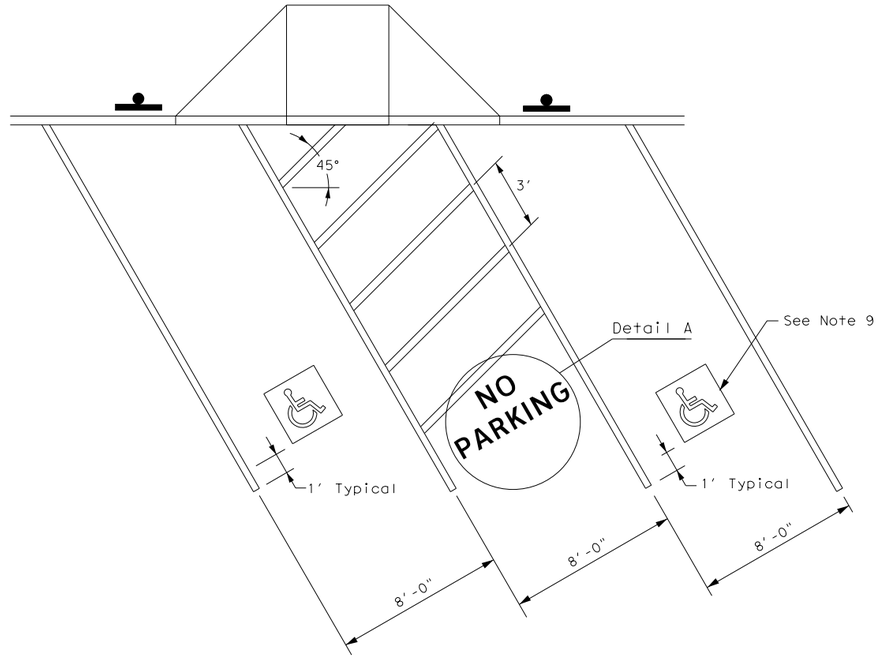
FILE: pm4-22a.dgn	DN:	CK:	DW:	CK:
© TxDOT December 2022	CONT	SECT	JOB	HIGHWAY
REVISIONS	902	41	2	US 67, ETC
6-20	DIST	COUNTY		SHEET NO.
6-22	FTW	SOMERVELL		152
12-22				

22D

DATE: 4/12/2024 4:30:26 PM
FILE: pm4-22a (2).dgn

DATE: 4/12/2024 4:30:34 PM
FILE: pm(ap)-21.dgn





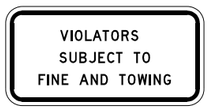
PERPENDICULAR OR ANGLED ACCESSIBLE PARKING SPACE DIMENSIONS

GENERAL NOTES:

1. All paved accessible parking space limit lines shall be 4" solid white lines.
2. Paved accessible parking spaces must include a white International Symbol of Accessibility applied conspicuously on the surface in a color that contrasts the pavement. A blue background with white border may supplement the symbol for additional contrast.
3. The words "NO PARKING" must be applied on any access aisle adjacent to the parking space. The words must be white, applied:
   a) in all capital letters.
   b) centered within each access aisle adjacent to the parking space.
4. RESERVED PARKING (R7-8T) sign including the International Symbol of Accessibility.
   a) shall be REQUIRED for each accessible parking space.
   b) shall NOT be placed between two accessible parking spaces.
   c) shall NOT be placed in a location that restricts movement of wheelchairs within the adjacent sidewalk.
   d) shall have a mounting height of 7 feet to the bottom of the sign.
5. A sign identifying the consequences of parking illegally in a paved accessible parking space. Must:
   a) at a minimum state "VIOLATORS SUBJECT TO FINE AND TOWING" (Plaque)(R7-8aPT).
   b) be mounted on a pole, post, wall or freestanding board.
   c) be no more than eight inches (8") below sign R7-8T a sign required by the Texas Accessibility Standards, 502.6.
   d) be installed so that the bottom edge of the sign is no lower than 48 inches and no higher than 80 inches above the ground level.
6. Signs identifying van parking spaces shall contain the designation "VAN ACCESSIBLE" (R7-8P) Signs shall be 60 inches minimum above the ground level measured to the bottom of the sign.
7. Perpendicular or angled parking spaces shall be 8 feet wide minimum with an access aisle 8 feet minimum wide (van accessible). Two parking spaces are permitted to share a common access aisle.
8. Access aisles shall be at street level, extend the full length of the parking space they serve, follow ADA surface requirements, and marked to discourage parking in the access aisle. Curb ramps shall connect the access aisle to the adjacent pedestrian access route. Curb ramps shall not be located within the access aisle.
9. International Symbol of Accessibility Parking Space Marking and sign details can be found in The Standard Highway Sign Designs for Texas (SHSD) at the following website. http://www.txdot.gov/

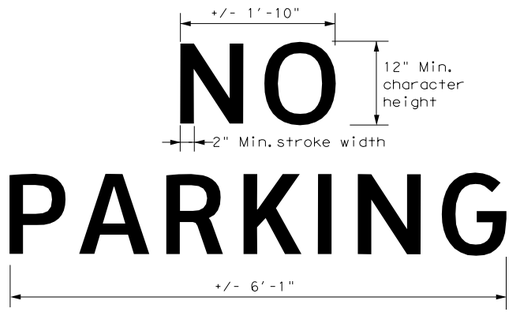
R7-8T

R7-8P



R7-8aPT

ACCESSIBLE PARKING SIGNS



Detail A

ALUMINUM SIGN BLANKS THICKNESS	
Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

DEPARTMENTAL MATERIAL SPECIFICATIONS	
ALUMINUM SIGN BLANKS	DMS-7110
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
SIGN FACE MATERIALS	DMS-8300

Texas Department of Transportation

Traffic Safety Division Standard

PAVEMENT MARKINGS AND SIGNING FOR ACCESSIBLE PARKING

PM(AP)-21

FILE: pm(ap)-21	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
©TxDOT July 2021	CONT	SECT	JOB	HIGHWAY
REVISIONS	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		153

22F

DATE: 4/12/2024
FILE: GR_SRTS_epic.dgn Prepared by Ana C. Ferriz on 6/14/2023

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit 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.

List MS4 Operator(s) that may receive discharges from this project. They may need to be notified prior to construction activities.

1.

2.

☐ No Action Required ☒ Required Action

Action No.

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000
2. Comply with the SW3P and revise when necessary to control pollution or required by the Engineer.
3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.
4. When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas.

The Contractor must adhere to all of the terms and conditions associated with the following permit(s):

☒ No Permit Required
☐ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)
☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)
☐ Individual 404 Permit Required
☐ Other Nationwide Permit Required: NWP# _____

Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.

1.

2.

3.

4.

The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts.

Best Management Practices:

Erosion	Sedimentation	Post-Construction TSS
☐ Temporary Vegetation	☐ Silt Fence	☐ Vegetative Filter Strips
☐ Blankets/Matting	☐ Rock Berm	☐ Retention/Irrigation Systems
☐ Mulch	☐ Triangular Filter Dike	☐ Extended Detention Basin
☐ Sodding	☐ Sand Bag Berm	☐ Constructed Wetlands
☐ Interceptor Swale	☐ Straw Bale Dike	☐ Wet Basin
☐ Diversion Dike	☐ Brush Berms	☐ Erosion Control Compost
☐ Erosion Control Compost	☐ Erosion Control Compost	☐ Mulch Filter Berm and Socks
☐ Mulch Filter Berm and Socks	☐ Mulch Filter Berm and Socks	☐ Compost Filter Berm and Socks
☐ Compost Filter Berm and Socks	☐ Compost Filter Berm and Socks	☐ Vegetation Lined Ditches
	☐ Stone Outlet Sediment Traps	☐ Sand Filter Systems
	☐ Sediment Basins	☐ Grassy Swales

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 immediate area and contact the Engineer immediately.

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

4.

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.
Contractor must adhere to Construction Specification Requirements Specs 162, 164, 192, 193, 506, 730, 751, 752 in order to comply with requirements for invasive species, beneficial landscaping, and tree/brush removal commitments.

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

4.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

4.

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediate area, and contact the Engineer immediately.

LIST OF ABBREVIATIONS

BMP:	Best Management Practice	SPCC:	Spill Prevention Control and Countermeasure
CGP:	Construction General Permit	SW3P:	Storm Water Pollution Prevention Plan
DSHS:	Texas Department of State Health Services	PCN:	Pre-Construction Notification
FHWA:	Federal Highway Administration	PSL:	Project Specific Location
MOA:	Memorandum of Agreement	TCEQ:	Texas Commission on Environmental Quality
MOU:	Memorandum of Understanding	TPDES:	Texas Pollutant Discharge Elimination System
MS4:	Municipal Separate Stormwater Sewer System	TPWD:	Texas Parks and Wildlife Department
MBTA:	Migratory Bird Treaty Act	TxDOT:	Texas Department of Transportation
NOT:	Notice of Termination	T&E:	Threatened and Endangered Species
NWP:	Nationwide Permit	USACE:	U.S. Army Corps of Engineers
NOI:	Notice of Intent	USFWS:	U.S. Fish and Wildlife Service

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.

Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:
* Dead or distressed vegetation (not identified as normal)
* Trash piles, drums, canister, barrels, etc.
* Undesirable smells or odors
* Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)?

☐ Yes ☒ No

If "No", then no further action is required.
If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

☐ Yes ☐ No

If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notify DSHS 15 working days prior to any scheduled demolition.

In either case, 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.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

Texas Department of Transportation — Design Division Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

EPIC

FILE: epic.dgn	DN: TxDOT	CK: RG	DW: VP	CK: AR
©TxDOT: February 2015	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-12-2011 (DS)	902	41	2	US 67, ETC
05-07-14 ADDED NOTE SECTION IV.	DIST	COUNTY		SHEET NO.
01-23-2015 SECTION I (CHANGED ITEM 1122 TO ITEM 506, ADDED GRASSY SWALES.	FTW	SOMERVELL		154

STORMWATER POLLUTION PREVENTION PLAN (SWP3):

This SWP3 has been developed in accordance with the TPDES Construction General Permit TXR150000 (CGP). The Texas Department of Transportation (TxDOT) ensures that project specifications include adequate best management practices (BMPs) for this project.

For all projects with soil disturbing activity and for projects 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 projects environmental permits, issues, and commitments (EPICs). A copy of the CGP is included in Attachment 2.12 of the SWP3 binder.

1.0 SITE/PROJECT DESCRIPTION

1.1 PROJECT CONTROL SECTION JOB (CSJ):
0902-41-002

1.2 PROJECT LIMITS:
From: INTERSECTION OF STADIUM DR AND ALLEN DR

To: INTERSECTION OF SHEPARD ST AND COLLEGE ST

1.3 PROJECT COORDINATES:
BEGIN: (Lat) 32°13'48.45"N ,(Long) 97°45'50.61"W

END: (Lat) 32°14'20.56"N ,(Long) 97°45'4.73"W

1.4 TOTAL PROJECT AREA (Acres): 16.4

1.5 TOTAL AREA TO BE DISTURBED (Acres): 1.34

1.6 NATURE OF CONSTRUCTION ACTIVITY:
CONSTRUCTION OF PEDESTRIAN INFRASTRUCTURE INCLUDING SIDEWALKS, CURB RAMPS, AND RESTRIPING

1.7 MAJOR SOIL TYPES:

Soil Type	Description
VENUS LOAM, 0 - 3% SLOPES	90% VENUS AND SIMILAR SOILS, 10% MINOR COMPONENTS WELL DRAINED, LOW RATE OF RUNOFF, LOW EROSION POTENTIAL
GRANBURY FINE SANDY LOAM, 1 - 5% SLOPES	85% GRANBURY, VERY FINE SANDY LOAM 15% MINOR COMPONENTS, WELL DRAINED MEDIUM RATE OF RUNOFF, SLIGHT EROSION POTENTIAL
KRUM CLAY 0 - 3% SLOPES	75% KRUM AND SIMILAR SOILS, 25% MINOR COMPONENTS, WELL DRAINED, HIGH RATE OF RUNOFF, SEVERE EROSION POTENTIAL

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 2.5.)

☒ 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: CONSTRUCTION SIDEWALKS, DRIVEWAYS, AND PEDESTRIAN RAMPS
☐ 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
N/A	PALUXY RIVER /NORTH PALUXY RIVER (1229); NO IMPAIRMENTS
NO TMDLs or I-PLANS	WERE IDENTIFIED

* Add (*) for impaired waterbodies with pollutant in ().

1.12 ROLES AND RESPONSIBILITIES: TxDOT

☒ Development of plans and specifications
☐ Submit Notice of Intent (NOI) to TCEQ (≥5 acres)
☒ Post Construction Site Notice
☒ Submit NOI/CSN to local MS4
☒ Perform SWP3 inspections
☒ Maintain SWP3 records and update to reflect daily operations
☒ Complete and submit Notice of Termination to TCEQ
☒ Maintain SWP3 records for 3 years
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR

☒ Day To Day Operational Control
☐ Submit Notice of Intent (NOI) to TCEQ (≥5 acres)
☒ Post Construction Site Notice
☒ Submit NOI/CSN to local MS4
☒ Maintain schedule of major construction activities
☒ Install, maintain and modify BMPs
☒ Complete and submit Notice of Termination to TCEQ
☒ Maintain SWP3 records for 3 years
☐ Other: _____
☐ Other: _____
☐ Other: _____

1.14 LOCAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) OPERATOR COORDINATION:

MS4 Entity
NO MS4s RECEIVE STORMWATER DISCHARGE FROM THE SITE.

STATE OF TEXAS
KEVIN A. MARSH
132803
LICENSED
PROFESSIONAL ENGINEER
6/20/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3)

July 2023 Sheet 1 of 2

Texas Department of Transportation

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
	0902-41-002		155
STATE	STATE DIST.	COUNTY	
TEXAS	FTW	SOMERVELL	
CONT.	SECT.	JOB	HIGHWAY NO.
0902	41	002	US 67, ETC.

STORMWATER POLLUTION PREVENTION 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 ☐ 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

- X ☐ 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

Sediment control BMPs requiring design capacity calculations (See SWP3 Attachment 1.3.):

T / P

- ☐ ☐ Sediment Trap
  - ☐ Calculated volume runoff from 2-year, 24-hour storm for each acre of disturbed area
  - ☐ 3,600 cubic feet of storage per acre drained
- ☐ ☐ Sedimentation Basin
  - ☐ Not required (<10 acres disturbed)
  - ☐ Required (>10 acres) and implemented.
    - ☐ Calculated volume runoff from 2-year, 24-hour storm for each acre of disturbed area
    - ☐ 3,600 cubic feet of storage per acre drained
  - ☐ Required (>10 acres), but not feasible due to:
    - ☐ Available area/Site geometry
    - ☐ Site slope/Drainage patterns
    - ☐ Site soils/Geotechnical factors
    - ☐ Public safety
    - ☐ Other: _____

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
- X Haul roads dampened for dust control
- X Loaded haul trucks to be covered with tarpaulin
- X Stabilized construction exit
- ☐ Daily street sweeping
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

2.5 POLLUTION PREVENTION MEASURES:

- ☐ Chemical Management
- X Concrete and Materials Waste Management
- X Debris and Trash Management
- X Dust Control
- X Sanitary Facilities
- ☐ Other: _____
- ☐ 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 2.5 of this SWP3.

When dewatering activities are present, a daily inspection will be conducted once per day during those activities and documented in accordance with CGP and TxDOT requirements.

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 2.5 of this SWP3.

STATE OF TEXAS
KEVIN A. MARSH
132803
LICENSED
PROFESSIONAL ENGINEER

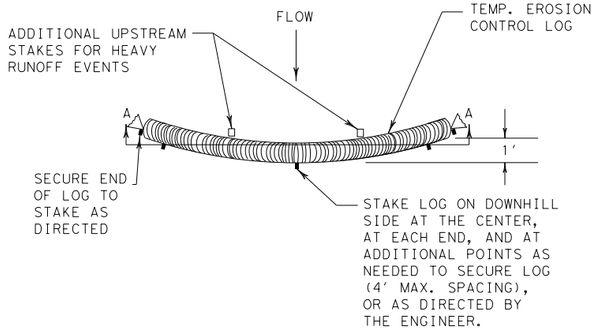
6/20/2024

STORMWATER POLLUTION PREVENTION PLAN (SWP3)

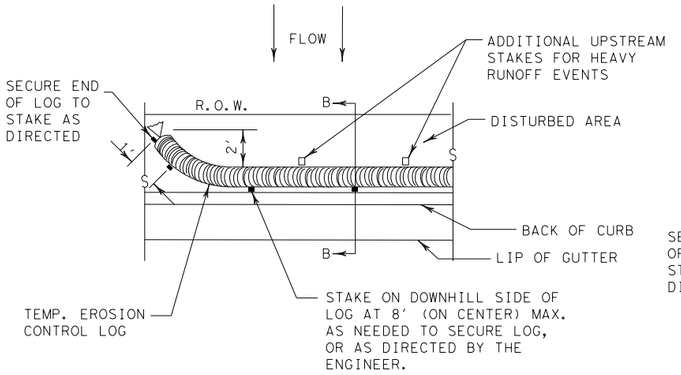
July 2023 Sheet 2 of 2

Texas Department of Transportation

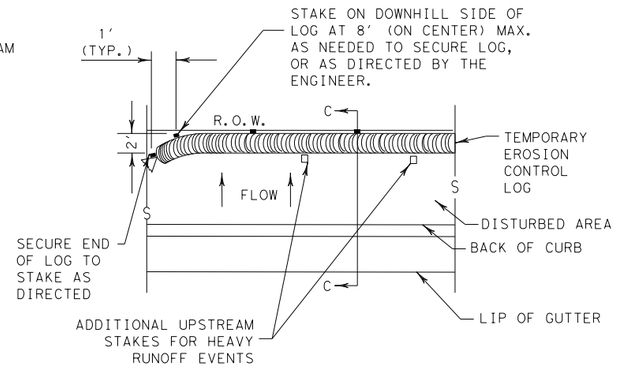
FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
	0902-41-002		156
STATE	STATE DIST.	COUNTY	
TEXAS	FTW	SOMERVELL	
CONT.	SECT.	JOB	HIGHWAY NO.
0902	41	002	US 67, ETC.



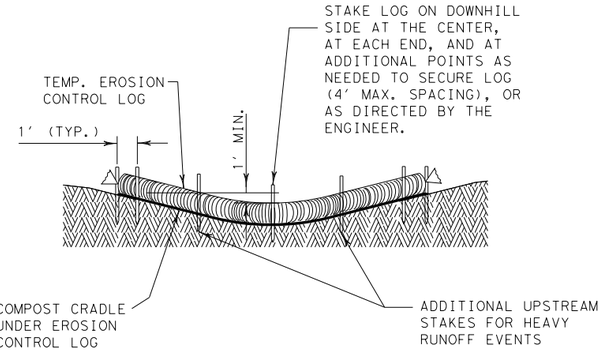
PLAN VIEW



PLAN VIEW



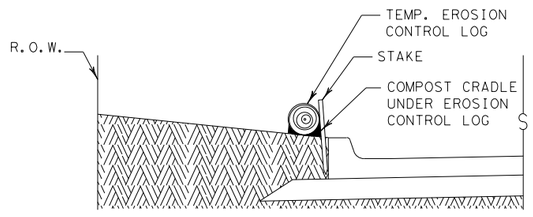
PLAN VIEW



SECTION A-A

EROSION CONTROL LOG DAM

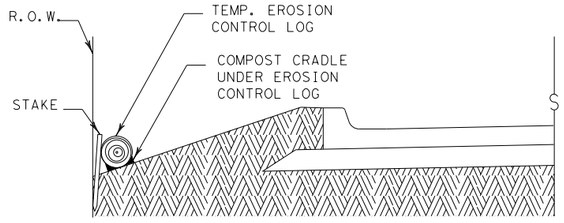
CL-D



SECTION B-B

EROSION CONTROL LOG AT BACK OF CURB

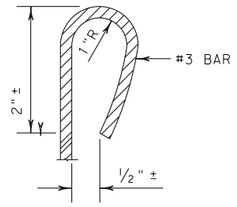
CL-BOC



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.

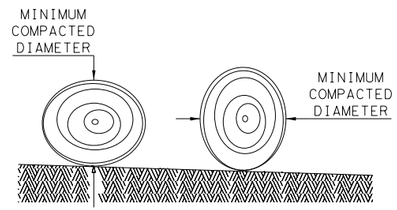
Log Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

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

DATE: 4/12/2024
FILE: ec916.dgn

Texas Department of Transportation

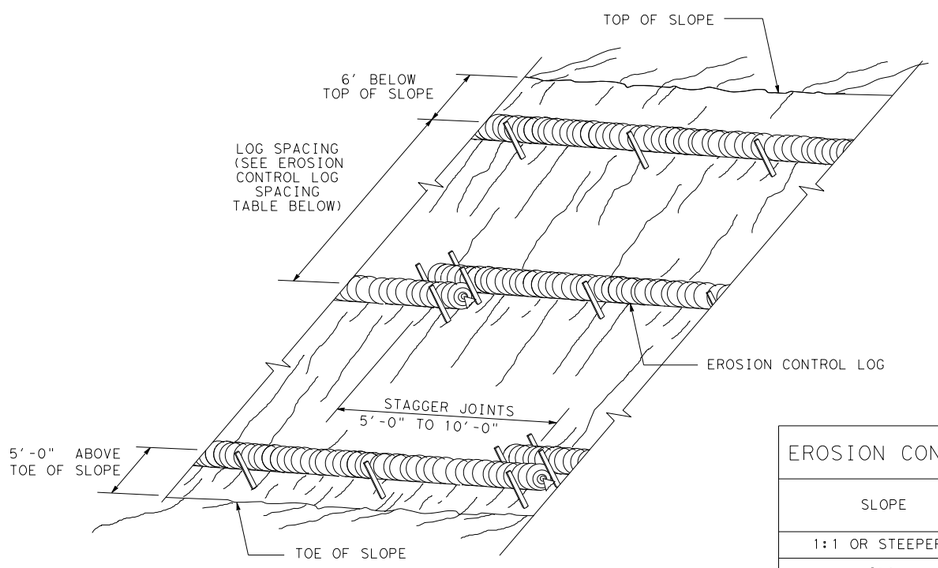
Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

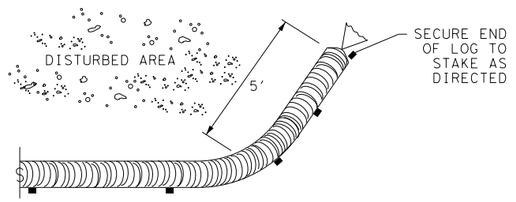
EC(9)-16

FILE: ec916	DN: TxDOT		CK: KM		DW: LS/PT		CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY		
REVISIONS	902	41	2		US 67, ETC		
	DIST	COUNTY			SHEET NO.		
	FTW	SOMERVELL			157		



EROSION CONTROL LOGS ON SLOPES
STAKE AND TRENCHING ANCHORING

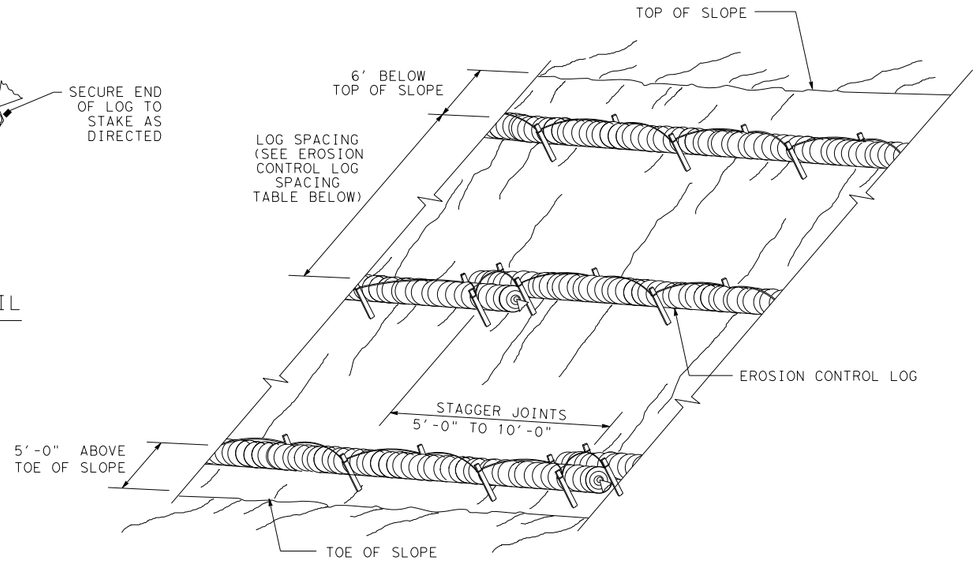
CL-SST



END SECTION RAP DETAIL

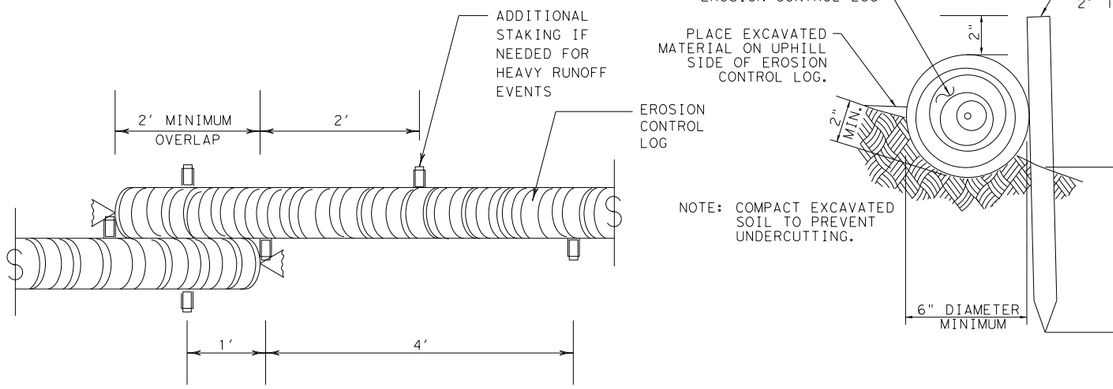
EROSION CONTROL LOG SPACING TABLE				
SLOPE	LOG DIAMETER			
	6"	8"	12"	18"
1:1 OR STEEPER	5'	10'	15'	20'
2:1	10'	20'	30'	40'
3:1	15'	30'	45'	60'
4:1 OR FLATTER	20'	40'	60'	80'

* 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

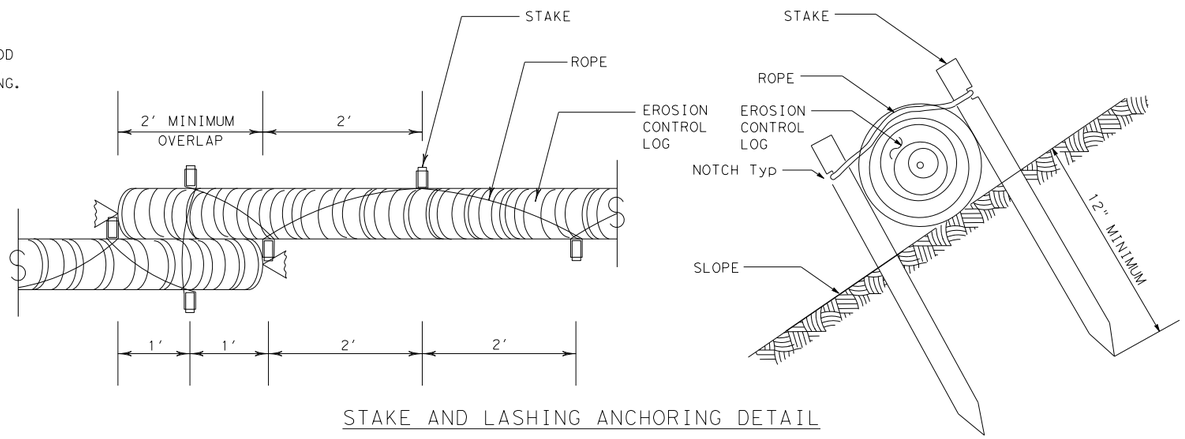
CL-SSL



STAKE AND TRENCHING ANCHORING DETAIL

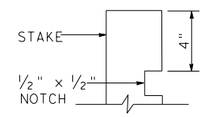
CL-SST

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

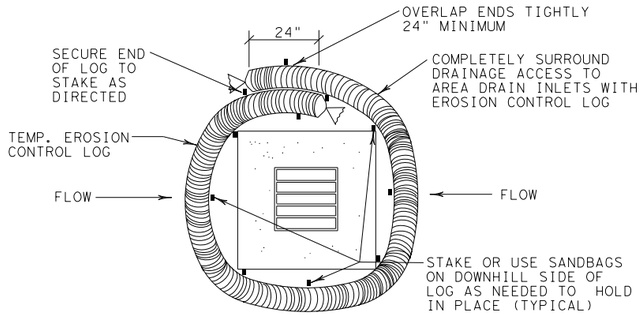
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC(9)-16

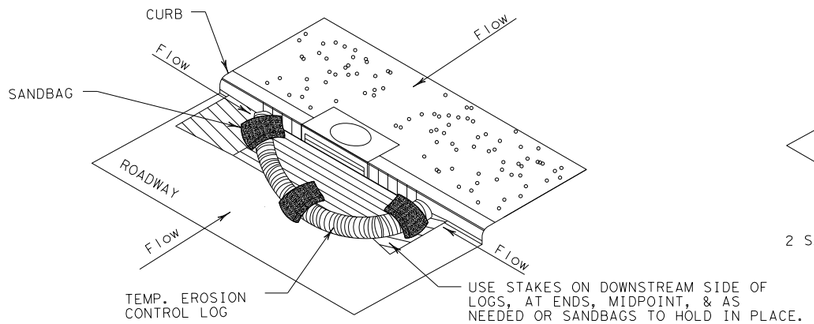
FILE: ec116	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS	902	41	2	US 67, ETC
	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		158

DATE: 4/12/2024
FILE: ec916.dgn



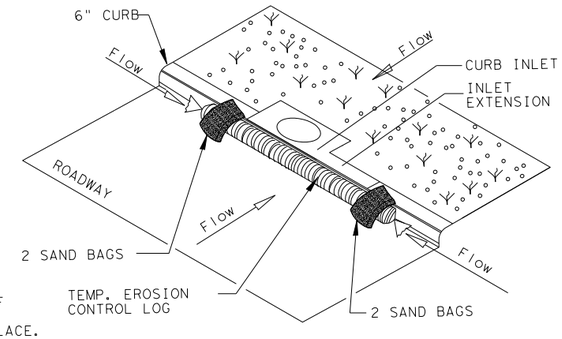
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

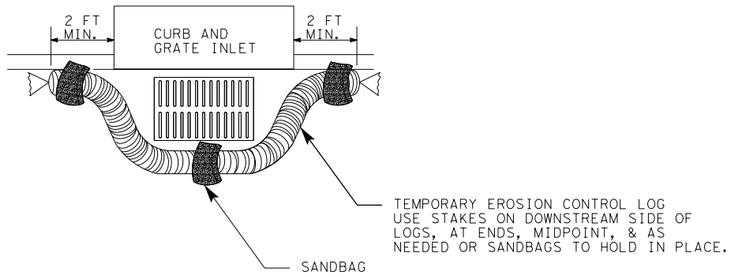
CL-CI



EROSION CONTROL LOG AT CURB INLET

CL-CI

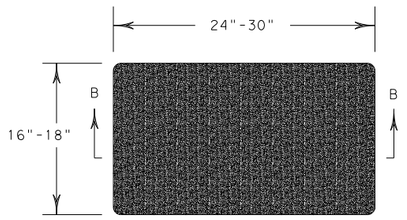
NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



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

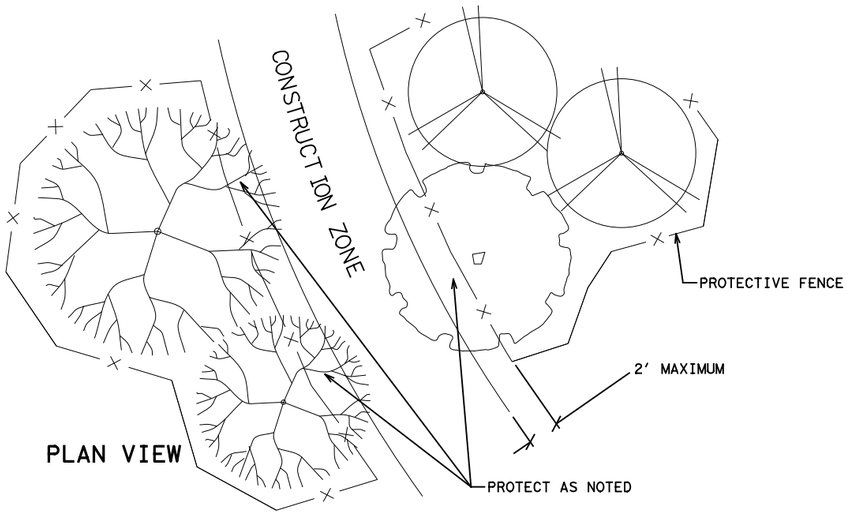
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

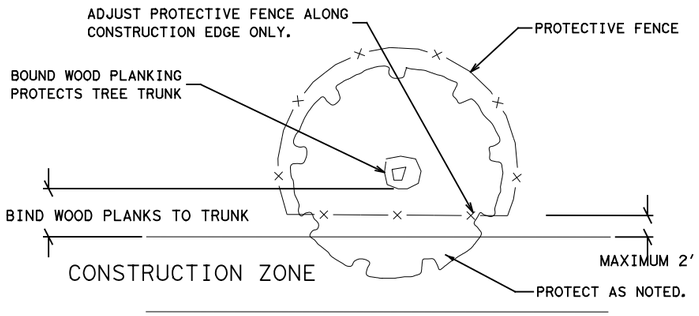
EC(9)-16

FILE: ec916	DN: TxDOT		CK: KM		DW: LS/PT		CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY		
REVISIONS	902	41	2		US 67, ETC		
	DIST	COUNTY			SHEET NO.		
	FTW	SOMERVELL			159		

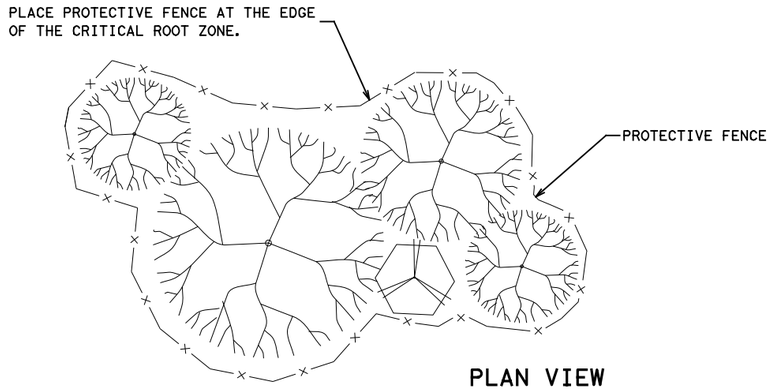
DATE: 4/12/2024
FILE: ec916.dgn



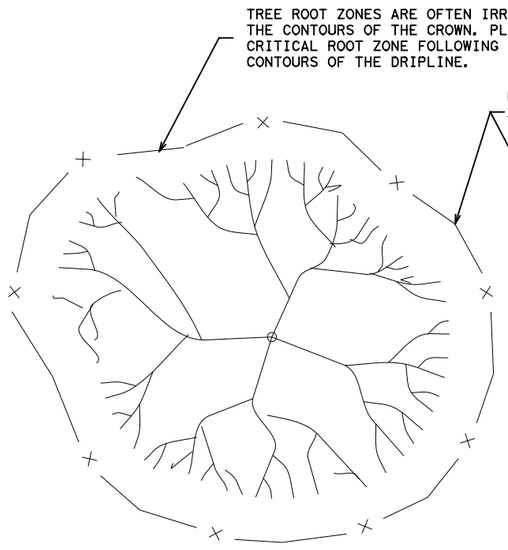
LINEAR CONSTRUCTION THROUGH STAND OF TREES

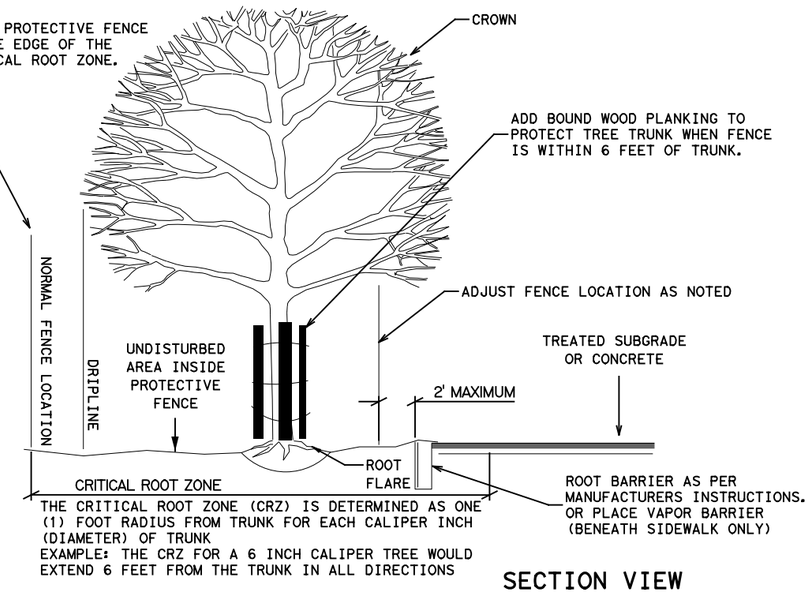


PLAN VIEW
PAVING UNDER TREES



TYPICAL TREE GROUPING PROTECTION





TYPICAL TREE PROTECTION

NOTES:

CRITICAL ROOT ZONE IS 1 FT. AWAY FROM TREE TRUNK FOR EVERY 1 IN. OF TREE DIAMETER MEASURED AT 4 FT. HEIGHT.

WATER TREES EVERY 2 WEEKS WITH A MINIMUM OF 100 GALLONS PER TREE.

SPRAY TREE WITH WATER TO REMOVE CONSTRUCTION DUST WHEN DIRECTED.

CONSTRUCTION FENCE SHALL BE 4 FT. TALL.

DO NOT PERFORM WORK OR STORE EQUIPMENT WITHIN PROTECTED AREA.

COVER THE CRITICAL ROOT ZONE BETWEEN THE PROTECTED AREA AND THE CONSTRUCTION ZONE WITH 4 IN. OF MULCH

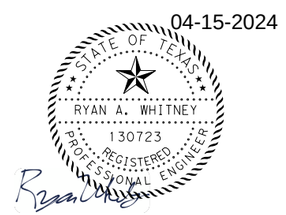
PERFORM TREE TRIMMING AND WOUND REPAIR PER STANDARD SPECIFICATIONS.

DAMAGED AND EXPOSED ROOTS SHALL BE TRIMMED AND TREATED PER STANDARD SPECIFICATIONS. BACKFILL EXPOSED ROOTS WITH TOPSOIL WITHIN 24 HOURS OF EXPOSURE.

PLACE PLASTIC UNDER CONCRETE PLACED IN THE CRITICAL ROOT ZONE.

PLACE A ROOT BARRIER IN THE CRITICAL ROOT ZONE AT THE EDGE OF TREATED SUBGRADE TO THE DEPTH OF THE SUBGRADE.

ALL WORK IS SUBSIDIARY TO BID ITEM.



Texas Department of Transportation | Austin District Standard

TREE PROTECTION DETAILS

TPD-19(AUS)

©TxDOT•YEAR•	CONT	SECT	JOB	HIGHWAY
REVISIONS	902	41	2	US 67, ETC
06/16: SHEET CREATED 04/19: APPROVED	DIST	COUNTY		SHEET NO.
	FTW	SOMERVELL		160

DATE: 4/12/2024 4:32:20 PM
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