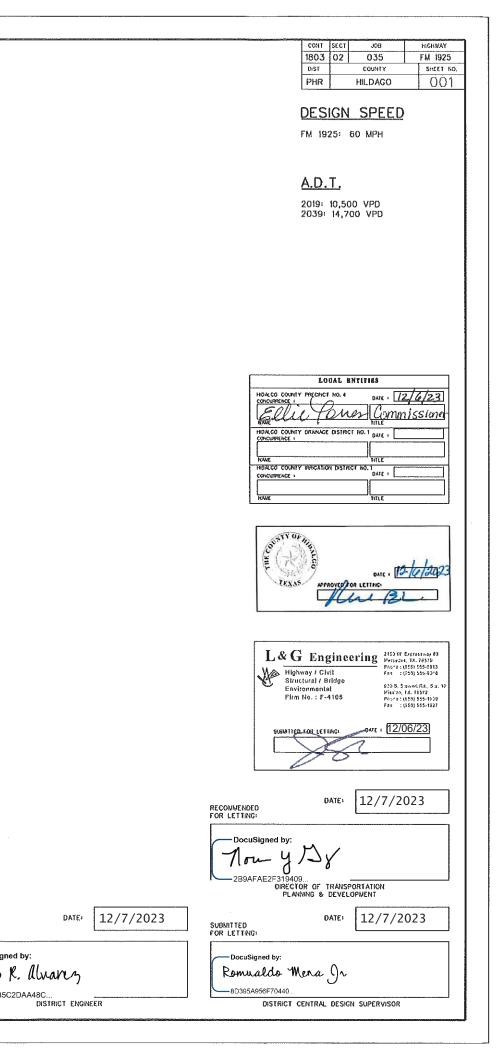
INDEX OF SHEETS SHEET NO. DESCRIPTION	STATE OF TEXAS DEPARTMENT OF TRANSPORTATION
FINAL PLANS	PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT FEDERAL PROJECT NUMBER F 2024(623)
DATE WORK BEGAN:	CSJ: 1803-02-035
DATE WORK ACCEPTED:	NET LENGTH OF PROJECT - 8,264.48 FEET - 1.56 MILES
FINAL CONTRACT COST: 8	HIDALGO COUNTY
LIST OF APPROVED FIELD CHANGES, CHANGE ORDERS & SUPPLEMENTAL AGREEMENTS:	F.M. 1925
	FROM: FM 907 (ALAMO RD) TO: SHARP RD.
	FOR THE RECONSTRUCTION AND WIDENING OF A NON-FREEWAY FACILITY WORK TO CONSIST OF GRADING, LIME TREATED SUBGRADE, CEMENT TREATED FLEXIBLE BASE, ASPHALTIC CONCRETE PAVEMENT, CURB & GUTTER, STORM SEWER, SIGNING, DELINEATION, AND PAVEMENT MARKINGS.
THIS IS TO CERTIFY THAT ALL CONSTRUCTION SUBSTANTIAL WORK WAS PERFORMED IN ACCORDANCE WITH THE PLANS SPECIFICATIONS AND CONTRACT.ALL PROPOSED CONSTRUCTION WAS COMPLETED UNLESS OTHERWISE NOTED.	END INCIDENTAL CONSTRUCTION CSJ: 1803-02-035 STA: 261-50.00 REF MRKR: 518 MELE PT: 3.771 DF0: 14.907 OF0 16.00 CSJ: 1803-02-035 CSJ: 1803-02-035 CS
	LOCATION MAP NOT TO SCALE EXCEPTIONS: NONE EQUATIONS: NONE RAILROAD CROSSINGS: NONE
TDLR INSPECTION NOT REQUIRED	RECOMMENDED
SPECIFICATIONS ADOPTED BY THE TEXAS DEPARIMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION LIEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-ALD CONSTRUCTION CONTRACTS (FORM FHWA 1273, OCTOBER 23, 2023).	Texas Department of Transportation ALL RI GHTS RESERVED



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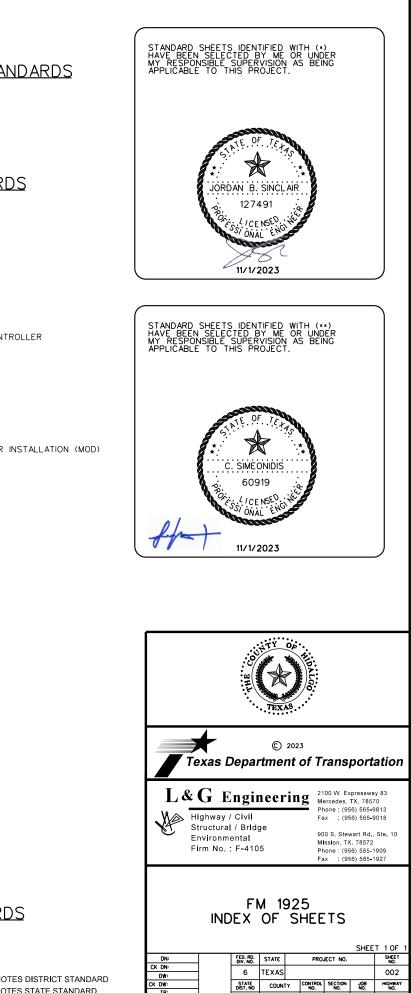
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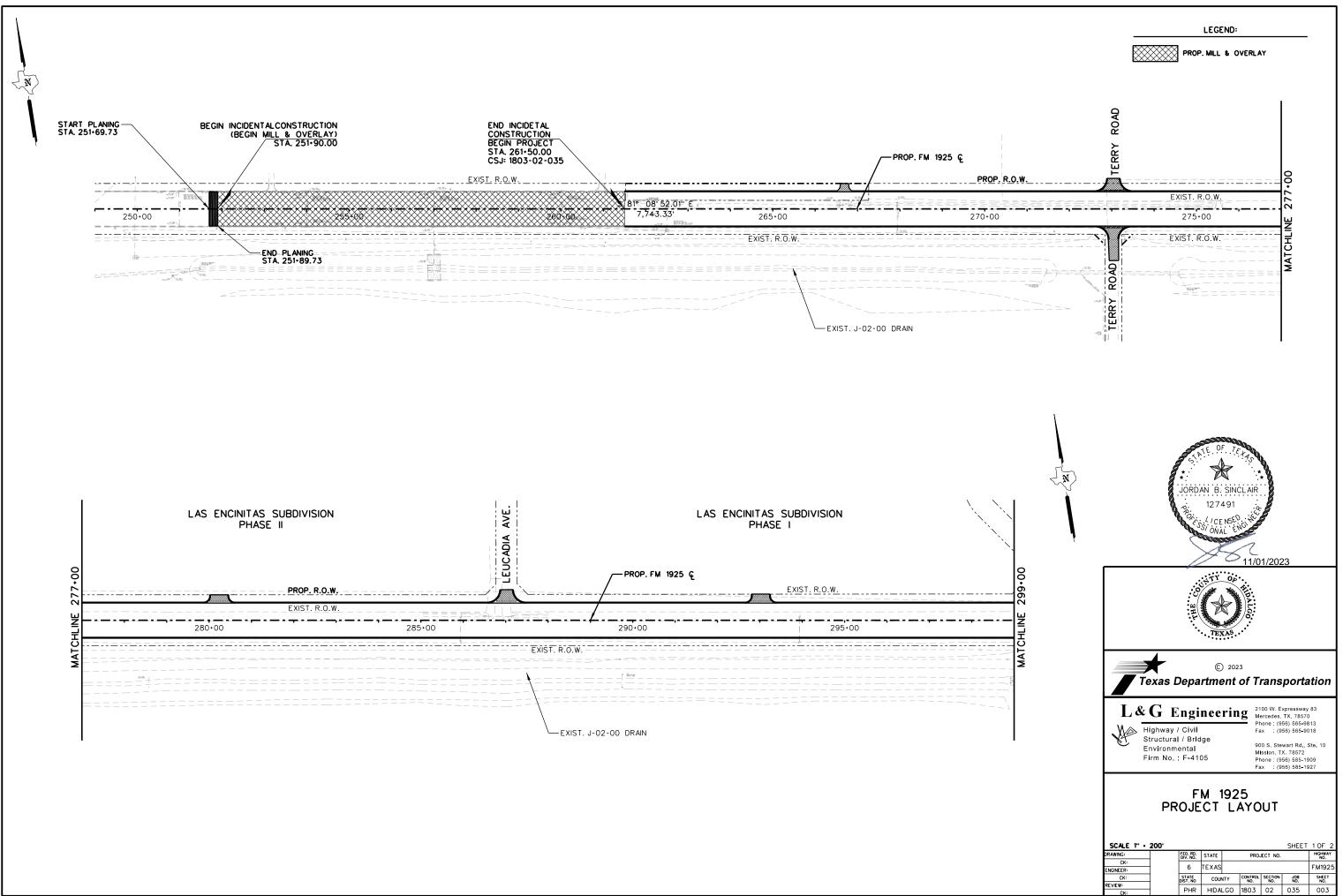
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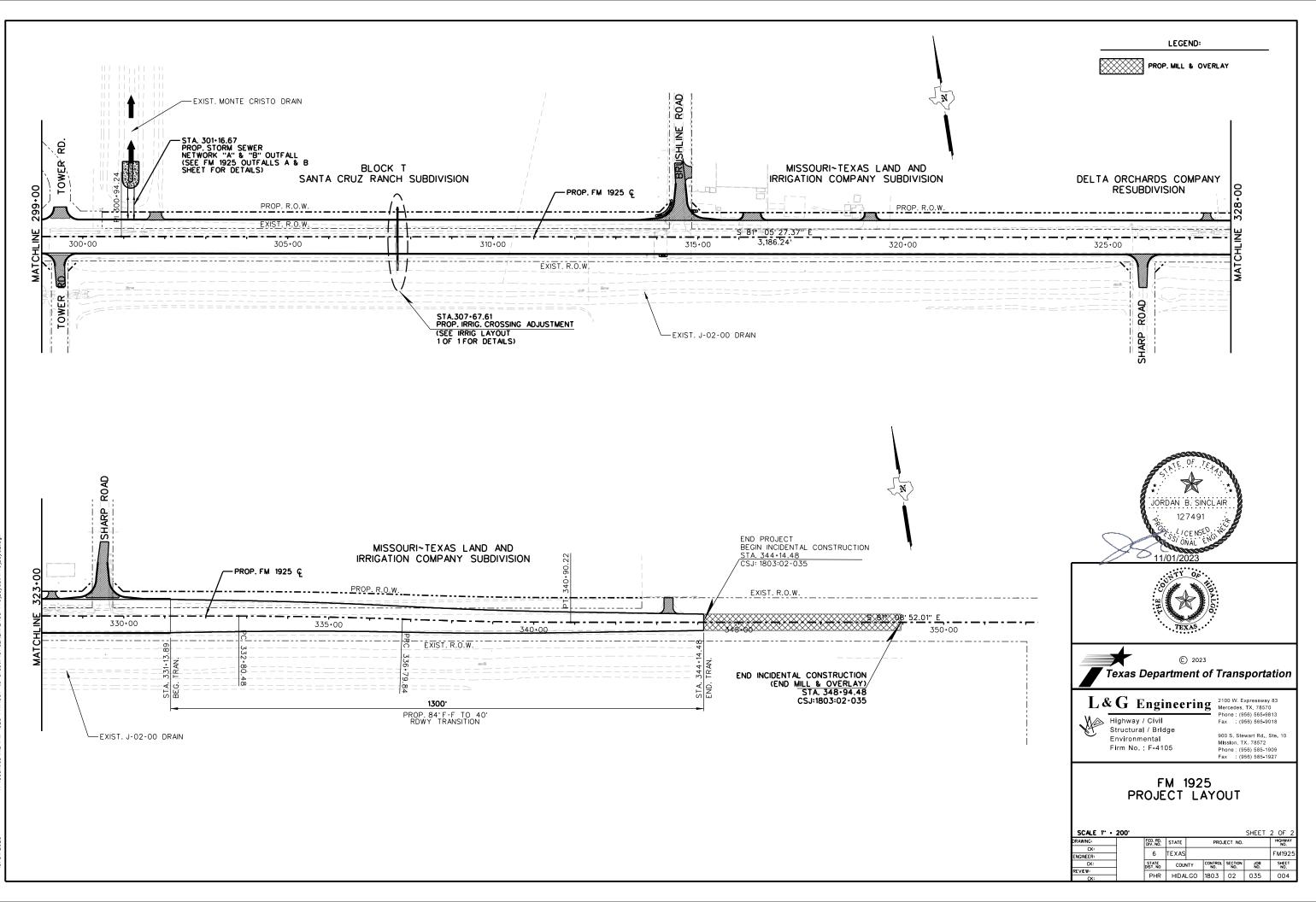
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STATE COUNTY CONTROL SECTION JOB HIGHWAY DIST. NO COUNTY CONTROL SECTION NO. NO. NO. HIGHWAY NO. PHR HIDALGO 1803 02 035 FM 1925

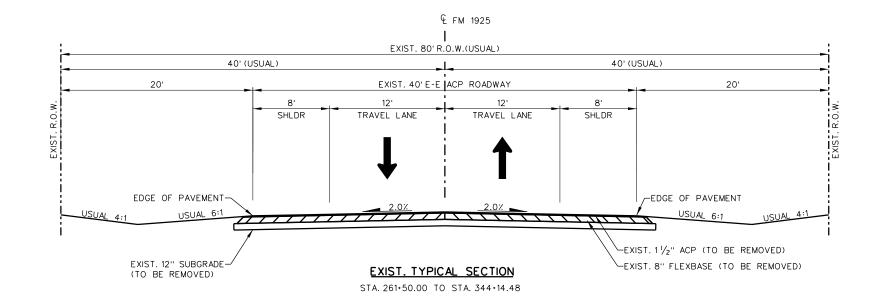


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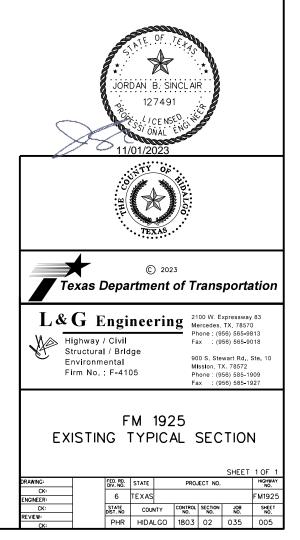


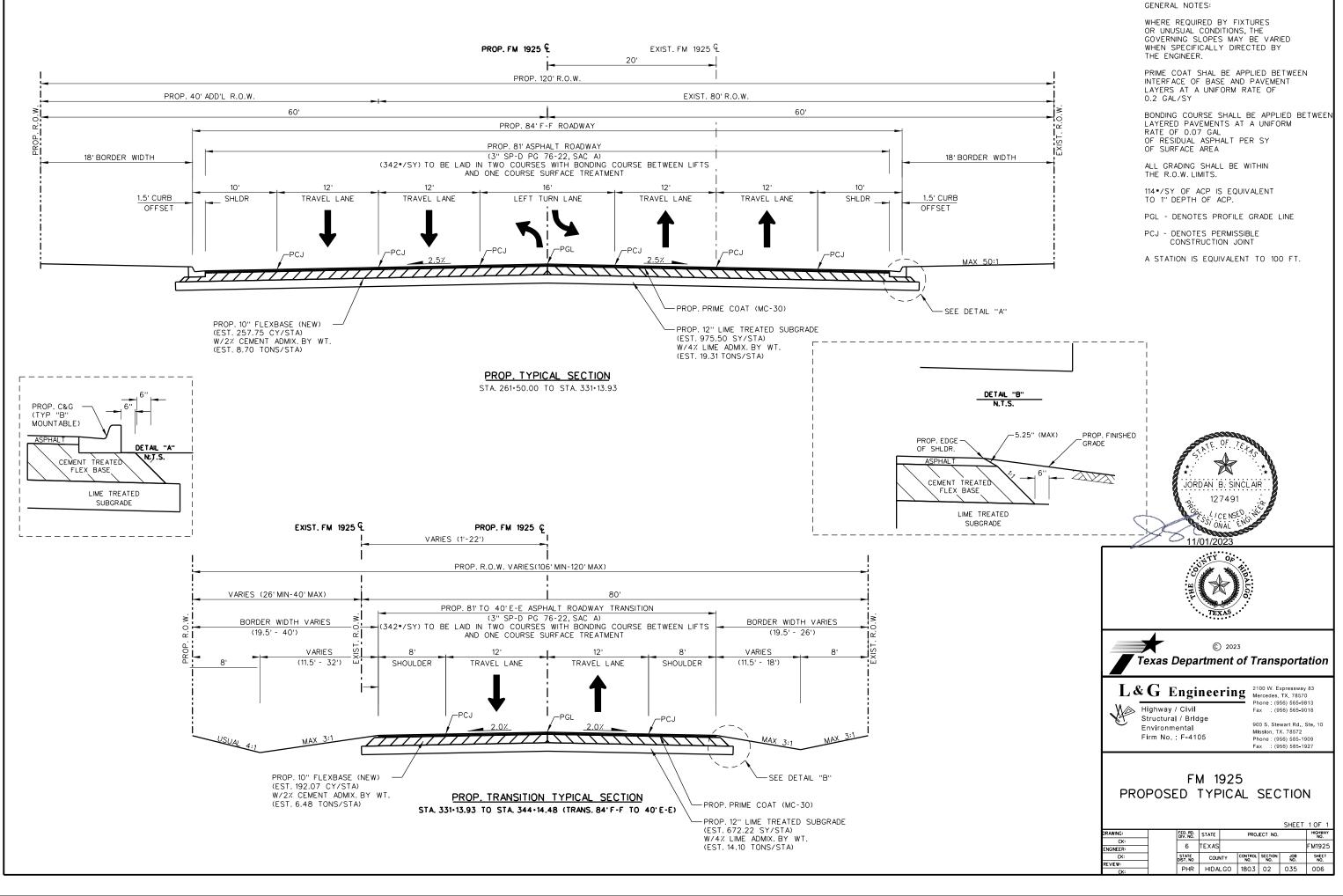
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GENERAL NOTES:

ALL EXIST. ACP AND BASE MATERIAL FROM FM 1925 ROADWAY THAT IS IN THE CUT PLAN OF THE PROP. TYPICAL SECTIONS WILL BE REMOVED UNDER ITEM 110 (EXCAVATION) AND SHALL NOT BE USED AS SALVAGE MATERIAL.





/3//2023 K:\Counties\HD\FM 1925 PHI(907 to Uresti)\01 GENERAL\04 TypicalSections\TXD0T\_FM1925\_PHIL\_TYP SEC

**Project Number:** 

County: Hidalgo

Highway: FM 1925

## 2014 SPECS GENERAL NOTES:

General Requirements and Covenants to ITEMS 1 thru 9

For all pits or quarries, comply with the "Texas Aggregate Quarry and Pit Safety Act."

Provide on a weekly basis a list of equipment, including idle equipment, utilized on the project that week.

The 1-800 call services for utility locations do not include TxDOT facilities. Contact the Pharr District Signal Section (956-702-6225) for coordination regarding TxDOT underground lines.

#### ITEM 2: Instructions to Bidders

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

Hector Siller, P.E., Pharr Area Engineer; Jesus Noriega, P.E., Assist. Area Engineer;

Hector.Siller@txdot.gov Jesus.Noriega@txdot.gov

Contractor questions will be accepted through email, phone, and in person by the above individuals. Questions may also be submitted via the Letting Pre-Bid Q&A web page. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address:

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

All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page.

The Letting Pre-Bid Q&A web page for each project can be accessed by using the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

Information found on TxDOT's FTP server will be considered for informational purposes only. Index of /pub/txdot-info/Pre-Letting Responses/Pharr District/21-Pharr District (Construction) (state.tx.us)

#### ITEM 5: Control of the Work

The responsibility for the construction surveying on this contract will be in accordance with Article 5.9.1., "Method A."

General Notes

Sheet A

Sheet A

Control: 1803-02-035

Project Number: County: Hidalgo Highway: FM 1925

Prior to contract letting, bidders may obtain a free computerized transfer of files (from the Engineer's office) that contains the earthwork information. If copies of the actual cross-sections in additional to, or instead of the electronic files are requested, they will be available at the Engineer's office for borrowing by copying companies for the purpose of making copies for the bidder at the bidders expense.

### 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/buv-america-material-classification-sheet.html for clarification on material categorization.

#### ITEM 7: Legal Relations and Responsibilities

No significant traffic generator events identified.

Roadway or Lane closures during the following key dates and/or special events are prohibited:

- National Holidays
- The day before a National Holiday
- · During emergency events such as natural disasters or as directed by the engineer

#### ITEM 8: Prosecution and Progress

Prepare progress schedules using the Critical Path Method (CPM).

Working days will be computed and charged in accordance with Article 8.3.1.4. Standard Workweek.

### ITEM 100: Preparing Right of Way

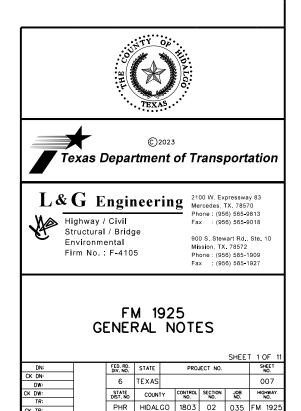
Preparation of right of way will be done in accordance with the construction phasing shown on the Traffic Control Plans. Performance of this item will not be allowed outside of the project's current construction phase without prior approval by the Engineer.

General Notes

#### Sheet B

Control: 1803-02-035

Sheet B



Project Number:	Sheet C
County: Hidalgo	Control: 1803-02-035
Highway: FM 1925	

## ITEM 132: Embankment

Embankment (DENS CONT) shall be Type C with a max. PI of 40. Material used as embankment material in the top two feet below the bottom of Flexible Base shall meet the following requirements based on preliminary tests and such other tests found necessary by the Engineer.

1. The material shall be such as to produce a well-bonded embankment and shall have a minimum PI of 8 and a maximum PI of 30.

It is the Contractor's responsibility to advise the Engineer of the location of the source sufficiently in advance to avoid delay.

#### ITEM 160: Topsoil

Use topsoil as needed and directed by the Project Engineer for select problem areas. Unless otherwise approved by the Project Engineer, use topsoil from approved sources outside the right of way as per standard specifications. Existing topsoil is to be salvaged and retained for re-use on the project as topsoil.

#### ITEM 164: Seeding for Erosion Control

During drill seeding operations, application methods shall be in accordance with the method shown in the Standard Specification Book.

SS-1 Tacking Agent shall be a ratio of 2:1, two (Emulsion) to one (water) and applied at a rate of 0.05 gallons per square yard. The SS-1 Tacking Agent required for Drill Seed operations, will not be paid for directly, but will be subsidiary to Item 164 "Drill Seeding." Watering shall not be used with the Drill Seed Method. A biodegradable tacking agent may be used in lieu of the SS-1 tacking agent in accordance with the manufacturer's recommendations when approved by the Engineer.

Cool Season or Warm Season Grasses shall be included as part of Item 164 (See Table 3 and/or Table 4 in the Standard Specification Manual for dates and seed type).

Seed mixture shall be as specified under Item 164

## ITEM 166: Fertilizer

Fertilizer rate is based on a rate of 100 Lbs. of Nitrogen per acre. The Nitrogen-Phosphorous-Potassium (NPK) ratio shall include a minimum of 5 percent phosphorous and 5 percent Potassium. Fertilizer shall be homogenized.

General Notes

Sheet C

Project Number:	
County: Hidalgo	Contro
Highway: FM 1925	

#### ITEM 247: Flexible Base

Flexible Base Type E will be composed of caliche (argillaceous Limestone, calcareous or calcareous clay particles) and may contain stone, conglomerate, gravel, sand or granular materials when these materials are in situ with the caliche.

Flexible Base (TY E GR 4) caliche shall conform to the following requirements:

Retained on Sq. Sieve:	Percent Retained
2"	0
\$\frac{1}{2}^{37}	20-60
No. 4	40-75
No. 40	70-90
Max. PI	15
Max. Wet Ball PI	15
Wet Ball Mill Max. Amount	50
Min. Comp. Strength PSI	150 at 15 PSI lateral pres
Triaxial Test	Tex-117-E

The Wet Ball Test (Tex-116-E) shall be run and the Plasticity Index of the material passing the No.40 sieve shall be determined (Wet Ball PI).

The percent of density as determined by Compaction Ratio (Tex-113-E) for the new Flexible Base shall be a minimum of 98%.

The Contractor's attention is called to the fact that certain existing and/or proposed structures may be within the limits of the Flexible Base. It shall be the Contractor's responsibility to perform construction operations without damage to these structures.

For water added under Item 247, the sulfate content will not exceed 3000-ppm and the chloride content will not exceed 3000-ppm.

#### ITEM 260: Lime Treatment (Road-Mixed)

The Contractor's attention is called to the fact that certain existing and/or proposed structures are within the limits of the lime-treated Subgrade. Unless otherwise directed by the Engineer, these structures shall be installed before the final rolling of this Subgrade. It shall be the Contractor's responsibility to perform the proper lime treating operation without damage to these structures.

The slurry method of applying lime will be required, except when the lime is to be added to naturally wet materials as directed by the Engineer.

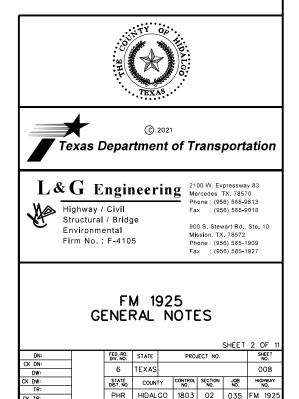
General Notes

## Sheet D

ol: 1803-02-035

sure

Sheet D



**Project Number:** 

County: Hidalgo

Highway: FM 1925

For this project, the Engineer will direct a random number of lime trucks to be check weighed.

The percent of density as determined by Tex-121-E for the new and salvage Flexible Base shall be a minimum of 98% for all courses.

Proof roll all constructed lime treated subgrade and bases courses in accordance with Item 216, "Proof Rolling." Correct soft spots as directed. Correction of soft spots in the subgrade or base courses will be at the Contractor's expense.

Contractor is to place an underseal and/or pavement course as indicated on plans within 14 calendar days of initial prime coat application. Otherwise, reapply prime coat as directed by the Engineer. Reapplication of the prime coat will be at the Contractor's expense.

Allow the mixture to mellow for a minimum period of 48 hours for all types of lime utilized. Additional time might be required due to sulfate and organic testing requirements, as directed by Engineer.

#### ITEM 275: Cement Treatment (Road-Mixed)

The percent of density as determined by Tex-120-E for the new and salvage Flexible Base shall be a minimum of 98% for all courses.

Proof roll all constructed cement treated subgrade and bases courses in accordance with Item 216, "Proof Rolling." Correct soft spots as directed. Correction of soft spots in the subgrade or base courses will be at the Contractor's expense.

Contractor is to place an underseal and/or pavement course as indicated on plans within 14 calendar days of initial prime coat application. Otherwise, reapply prime coat as directed by the Engineer. Reapplication of the prime coat will be at the Contractor's expense.

#### ITEM 302: Aggregates for Surface Treatments

Loc.	County	County CSJ Highway		Binder	SAC	
*1	Hidalgo	1803-02-035	FM 1925	SPG 79-13	В	

\* Crushed gravel will not be allowed on the above locations noted with (\*).

The aggregate for the surface treatment shall be surface dry before application unless otherwise directed by the Engineer.

General Notes

Sheet E

Sheet E

Control: 1803-02-035

Project Number:	
County: Hidalgo	Control
Highway: FM 1925	

#### ITEM 310: Prime Coat

The Contractor shall exercise diligence in the application of asphalt by the use of flagging and rolling procedures to keep from spraying or splattering the traveling public with asphaltic material.

All existing Flexible Base, which may become exposed by the milling operation, shall be primed at the rate of 0.2 Gal/SY.

Do not apply subsequent courses over the initial prime coat any earlier than the day after the prime coat was applied, unless otherwise authorized or directed by the Engineer.

#### ITEM 316: Seal Coat

In addition to cleaning by brooming of paved surfaces to be sealed as required by this Item, blading may also be necessary to clean dirt and grass from edges of the pavement and/or turnout areas. The cost of this blading will not be paid for directly, but will be considered subsidiary to the various bid Items of the project.

The type and grade of asphalt as shown on the plans and/or as directed by the Engineer, shall be used on these projects. Asphalt cement will be used during the warm season. An emulsified asphalt will be used during the cooler season if permitted in writing by the Engineer. The emulsified asphalt, if used, shall be HFRS 2P. Estimated quantities shown for the bid Item is based on an average of the estimated rates of application for asphaltic cement and emulsified asphalt. These rates should be used for estimating and comparison purposes only.

The one or two-course surface treatment shall be in place for a sufficient period of time in the opinion of the Engineer, for the surface treatment to properly dry and cure before placing the Asphaltic Concrete Pavement.

Traffic will not be permitted on the surface treatment unless authorized by the Engineer.

When emulsified asphalt is used, do not apply subsequent courses over the surface treatment any earlier than the day after the surface treatment was applied, unless otherwise authorized or directed by the Engineer.

Contractor is to place ACP layer(s) as indicated on plans within 14-calendar days of seal coat placement unless otherwise directed by the Engineer.

#### ITEM 3076: Dense-Graded Hot-Mix Asphalt

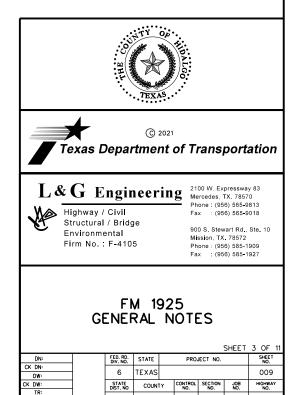
The Contractor shall exercise diligence in the application of "Bonding Course" by the use of flagging and rolling procedures to keep from spraying or splattering the traveling public with asphaltic material.

General Notes

## Sheet F

ol: 1803-02-035

Sheet F



PHR HIDALGO 1803 02 035 FM 1925

Project Number:
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County: Hidalgo

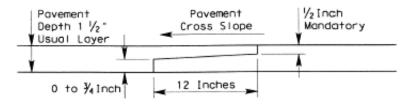
Highway: FM 1925

Blading (not to exceed more than 3-ft from the pavement edge) may also be necessary to clean dirt and grass from pavement edges and turnout areas as work under this bid item. The cost of this blading will not be paid for directly, but shall be considered subsidiary to this bid item.

A portion of RAP generated from this project will remain the property of the State. This quantity can be found on the Estimate and Quantity Tables under Item 305 or Item 354.

Level-up will be placed before the surface course. An asphaltic concrete spreading and finishing machine and/or motor graders; when approved by the Engineer may be used to place the ACP level-up.

All unconfined longitudinal joints shall be constructed with a joint maker providing a maximum ½inch vertical edge and a minimum 6:1 edge taper or as approved by the Engineer. The Engineer may waive this requirement when no impacts to the traveling public are foreseen.



NOTCHED WEDGE JOINT

The engineer may allow for variances to the dimensions shown.

The Hamburg Wheel Test requirement for PG 64 binder will be 5,000 passes @ 0.5 inch rut depth.

Design mixture using a Superpave Gyratory Compactor.

Public and private driveways need to have a smooth vertical transition between the edge of pavement and the existing driveways. The Contractor is to add a vertical taper if needed which will be subsidiary to Item 3076.

The use of RAP and RAS (recycled asphalt shingles) will not be allowed as part of the mix design for the final riding surface.

Use a release agent from the Department's MPL to clean and to coat the inside of truck beds for hauling equipment. Hauling equipment shall be cleaned prior to hauling material to job site. Submit a copy of the bill of lading to the Engineer as part of the OCP. Ensure the pavement is free from any spillage of hydraulic oil or diesel from construction equipment. The Department may reject trucks that contain any foreign material and suspend production if the pavement is contaminated by any pollutants mentioned above.

General Notes

Sheet G

Sheet G

Control: 1803-02-035

Project Number:	
County: Hidalgo	Co
Highway: FM 1925	

The percentage of RAS used in the total mix shall not exceed 3% when allowed

When SAC B aggregate is used, material properties are required to be 10 or less on the magnesium sulfate soundness test and 20 or less on the Micro-Deval test.

## ITEM 3077: Superpave Mixtures

The Contractor shall exercise diligence in the application of "Bonding Course" by the use of flagging and rolling procedures to keep from spraying or splattering the traveling public with asphaltic material.

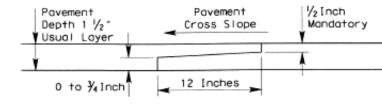
Blading (not to exceed more than 3-ft from the pavement edge) may also be necessary to clean dirt and grass from pavement edges and turnout areas as work under this bid item. The cost of this blading will not be paid for directly, but shall be considered subsidiary to this bid item.

A portion of RAP generated from this project will remain the property of the State. This quantity can be found on the Estimate and Quantity Tables under Item 305 or Item 354.

Level-up will be placed before the surface course. An asphaltic concrete spreading and finishing machine and/or motor graders; when approved by the Engineer may be used to place the ACP level-up.

Aggregates used on shoulders and ramps are required to meet SAC requirements.

All unconfined longitudinal joints shall be constructed with a joint maker providing a maximum 1/2inch vertical edge and a minimum 6:1 edge taper or as approved by the Engineer. The Engineer may waive this requirement when no impacts to the traveling public are foreseen.



#### NOTCHED WEDGE JOINT

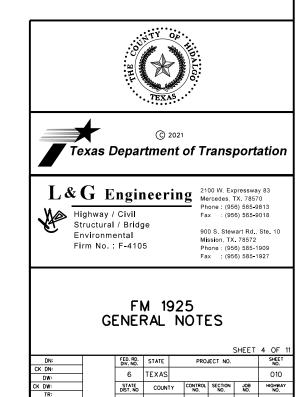
The engineer may allow for variances to the dimensions shown.

Public and private driveways need to have a smooth vertical transition between the edge of pavement and the existing driveways. The Contractor is to add a vertical taper if needed which will be subsidiary to Item 3077.

General Notes

#### Sheet H

ontrol: 1803-02-035



STATE DIST. NO COUNTY CONTROL SECTION JOB NO. NO. NO. NO.

PHR HIDALGO 1803 02 035 FM 1925

HIGHWAY NO.

Sheet H

Project Number:	
County: Hidalgo	

Sheet I

Control: 1803-02-035

Highway: FM 1925

The use of RAP and RAS (recycled asphalt shingles) will not be allowed as part of the mix design for the final riding surface.

Use a release agent from the Department's MPL to clean and to coat the inside of truck beds for hauling equipment. Hauling equipment shall be cleaned prior to hauling material to job site. Submit a copy of the bill of lading to the Engineer as part of the QCP. Ensure the pavement is free from any spillage of hydraulic oil or diesel from construction equipment. The Department may reject trucks that contain any foreign material and suspend production if the pavement is contaminated by any pollutants mentioned above.

The percentage of RAS used in the total mix shall not exceed 3% when allowed.

SAC B aggregate must have material properties that require 10 or less on the magnesium sulfate soundness test and 20 or less on the Micro-Deval test.

#### ITEM 3084 - Bonding Course

The minimum application rates are listed in Table BC.

The target shear bond strengths are listed in Table BCS. The informational test cores shall be taken once a shift for first 5 lots of placement or a change to placement method of bonding course, bonding material, or hot mix material. The remaining informational test cores shall be taken once every 3 lots for surface mix. Informational tests are not required for non-surface mix beyond the first 5 lots unless there is a change to placement method of bonding course, bonding material, or hot mix material. Results from these informational tests will not be used for specification compliance.

Table BC						
Material	Minimum Application Rate (gal. per square vard)					
TRAIL – Emulsified Asphalt	0.06					
TRAIL – Hot Asphait	0.12					
Spray Applied Underseal Membrane	0.10					

Table BCS (For Informational Tests)

Material	Target Shear Bond Strength (Tex-249-F psi)
SMA – Stone-Matrix Asphalt	60.0
All Other Materials	40.0

ITEM 3096: Asphalts, Oils, and Emulsions

Temporary ramps/detours and driveways may use Performance Grade Binder 64-22.

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#### ITEM 354: Planing and Texturing Pavement

Contractor is to place seal coat or ACP layer(s) as indicated on plans within 14-calendar days of planing/milling operation unless otherwise directed by the Engineer.

All planing/milling operation drop offs greater than 1-inch need to have a 3:1 slope taper unless otherwise directed by the Engineer. The cost of the 3:1 slope taper is subsidiary to Item 354.

For locations on the plans that propose full width planning/milling as shown on the typical sections, Contractor is to place seal coat or ACP layer(s) as indicated on the plans within 2-calendar days of the planing/milling operation unless otherwise directed by the Engineer. Contractor will not be allowed to move onto the next planing/milling location or seal coat/ACP overlay location until the exposed area is covered as per above. Contractor cannot get paid for the planing/milling operation until exposed area is covered as per above.

All planing/milling material; RAP (recycled asphalt pavement) from this project will remain the property of the State unless otherwise noted in the plans and/or as directed by the Engineer. Stockpile 938T of material generated from the project at designated site located at 1300 TX-107. La Villa. TX 78562.

## ITEM 400: Excavation and Backfill for Structures

If the Contractor elects to cut pavement (existing/detour) for structural work beyond that required by the construction phasing shown in the plans and approved by the Engineer, it shall be restored at his expense and backfilled to its original condition or better in accordance with Item 400.

Unless shown otherwise in the plans, use a 1-ft depth for Item 400 Structural Excavation (Special) for gravel bedding needed below drainage structures with unstable material.

#### Structural Excavation Special (Gravel):

Use durable natural stone when tested in accordance with Tex-411-A, has weight loss of no more than 18% after 5 cycles of magnesium sulfate solution. Provide gravel conforming to an aggregate Grade No. 1 as shown on Table 4 of Article 421.2.

#### ITEM 416: Drilled Shaft Foundations

Payment for furnishing and installing anchor bolts mounted in drill shafts will be included in the unit price bid for the various diameter drill shafts.

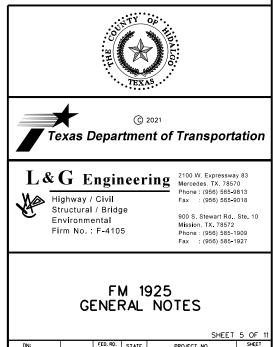
The Contractor shall coordinate with the utility companies to verify utility locations before drilling foundations.

Sheet I

General Notes

## Sheet J

Sheet J



						SHEET	5 (	JF 11
DN:	FED. RD. DIV. NO.	STATE		PROJECT NO.			SHEET NO.	
CK DN:	6	TEXAS						D11
DW:	0	TLAAS					,	511
K DW:	STATE DIST, NO	COUNTY		CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO.	
TR:			~ ~					
CK TR:	PHR	HIDALGO		1803	02	035	FΜ	1925

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The Contractor shall form, or provide a smooth finish, the portions of drilled shaft that project above the ground line. Place a ¼ inch chamfer on the top edge of each pole foundation. This work will not be paid for directly, but will be considered subsidiary to this bid item.

All drilled shaft foundations will be based on the lengths shown on the plans or those established in writing. Adequate calculations for measurements of foundations have been made in accordance with Article 9.1. of the Standard Specifications. Increases or decreases in the quantities required by change in design will be measured as specified and the revised quantities will be the basis for payment.

In the presence of excess ground water and/or unstable conditions in sub-grade soils prevents excavation to the line and depths indicated on the plans for "Drilled Shaft Foundation", other proposed methods of foundation installation such as casing, etc. shall be submitted for review and approved by the Engineer.

### ITEM 421: Hydraulic Cement Concrete

Provide equipment at the batch plant for determining the free moisture and/or absorption of aggregates in accordance with applicable TXDOT Test.

Provide the following items for concrete batch inspection in accordance with specifications outlined in DMS-10101, "Computer Equipment":

- (1) One Desktop Microcomputer or One Laptop Microcomputer
- (2) One Integrated Printer/Scanner/Copier/Fax Unit
- (3) Contractor-Furnished Software
- (4) Hardware

Submit to the Engineer for approval the project locations for all Portland Cement concrete washout areas prior to starting any concrete work.

Fiber Reinforced Concrete is not permitted.

#### ITEM 432: Riprap

Provide Class "A" concrete minimum for riprap aprons placed around all box culvert and pipe safety end treatments. Provide ¼-inch thick dummy joints at least every 15-ft for riprap aprons placed around box and pipe culverts.

Do not use fiber reinforced concrete RIPRAP on side slopes equal to or steeper than 6:1 unless approved by the Engineer.

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#### ITEM 464: Reinforced Concrete Pipe

Use tongue and groove pipe where the RCP extends into the lime treated subgrade. The 4-foot depth restriction for heavy equipment passage over pipe structures is voided. The Contractor will be responsible for any construction damage to these facilities.

Do not use mortar joints.

All reinforced concrete pipe shall include rubber gaskets unless shown otherwise on the plans or directed by the Engineer.

#### ITEM 465: Junction Boxes, Manholes, and Inlets

For TY PSL with RG, FG, or SFG lid inlets, provide Class B concrete riprap with (6"x6" W3xW3 (No. 6 gauge) welded wire fabric) for any side that is touching the natural ground. The riprap will be 4-in thick and 3-ft wide with an 8-in deep by 6-in wide toe unless otherwise shown in the plans. The cost will be subsidiary to Item 465 unless otherwise shown in the plans.

For all inlet extensions, provide a temporary circular curb/inlet extension opening for drainage during construction. The circular opening will be a 4-in Diameter by 2-in deep slot that matches the statewide PCO standard. Fill curb circular curb/inlet extension opening with epoxy and mortar as per Item 429 Concrete Structure Repair specifications. Epoxy and mortar is subsidiary to Item 465.

### ITEM 467: Safety End Treatment

All Type II SET's shall have riprap, Class "A" minimum, aprons as shown on the plans. The Contractor may submit an alternate precast SET design for approval by the Engineer.

### ITEM 471: Frames, Grates, Rings, and Covers

All grates will be tack welded to the frames in a manner satisfactory to the Engineer.

## ITEM 502: Barricades, Signs, and Traffic Handling

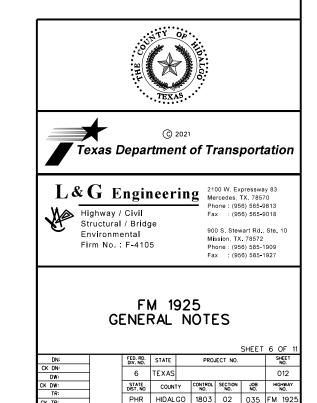
Shadow vehicles equipped with Truck-Mounted Attenuators are required for traffic handling. See notes for Item 6185: Truck Mounted Attenuator/Trailer Attenuator, for additional references pertaining to the TMAs.

Replace/relocate all regulatory signs removed due to construction operations with the same sign on fixed support(s) immediately upon its removal. First obtain Project Engineer approval before removing any regulatory roadway sign. Required flaggers are to be available to direct traffic during sign intermediate down time.

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## Sheet L

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Relocate any Directional Sign Assemblies removed during construction operations immediately upon their removal.

These signs shall be relocated to a location in accordance with the Latest Version of the "Texas Manual on Uniform Traffic Control Devices". In no case will a sign be removed without a replacement sign and support(s) being readily available and a location established. Removal and relocation of these signs required for traffic control will not be paid for directly, but shall be considered subsidiary to Item 502.

From the beginning to the end of the project, all traffic control devices need to be in acceptable condition as per the Texas Quality Guidelines for Work Zone Traffic Control Devices.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The "Safety Contingency" is not intended to be used in lieu of bid items established by the contract.

#### ITEM 504: Field Office and Laboratory

Furnish (1) Field Office (Type C).

The Contractor will furnish a Type D Structure (Asphalt Mix Laboratory) modified by the following.

#### Laboratory room:

The other room of this building will be used as a laboratory and will include access to a bathroom facility from the interior. The laboratory and bathroom facility will have the walls, ceiling and floor insulated such that the air temperature can be maintained at 76 degrees Fahrenheit at all times.

Furnish for the Department's use in the asphalt laboratory one (1) desktop computer.

#### ITEM 506: Temporary Erosion, Sedimentation, and Environmental Controls

Before starting each phase of construction, review with the Engineer the SW3P used for temporary erosion control as outlined on the plans. Before construction, place the temporary erosion and sedimentation control features as shown on the SW3P. Location of Construction Exits are to be approved by the Engineer. After completing earthwork operations, restore and reseed the disturbed areas in accordance with the Department's specifications for permanent or temporary erosion control. Before starting grading operations and during the project duration, place the temporary or permanent erosion control measures to prevent sediment from leaving the right of way.

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The Contractor Force Account "Erosion Control Maintenance" that has been established for this project is intended to be utilized for work zone Best Management Practice (BMP) maintenance, to improve the effectiveness of the Environmental Controls that may need maintenance attention and/or require replacement while the project is still under the construction stage. These procedures will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent BMP management reviews on the project. The "Erosion Control Maintenance" is not intended to be used in lieu of bid items established by the contract.

## ITEM 508: Constructing Detours

Flexible Base, prime coat, and Asphaltic Concrete Pavement used for detours shall meet the requirements of Items 247, 310 and 3076 respectively, except for measurement and payment.

#### ITEM 529: Concrete Curb, Gutter, and Combined Curb and Gutter

Before final acceptance of the project, remove discoloration caused by tire marks, mud, asphalt, paint or other similar material by any method satisfactory to the Engineer to achieve a uniform color and texture of the finished surface exposed to view.

Curb attached to the MBGF thrie-beam transition section will be subsidiary to the MBGF transition.

## ITEM 530: Intersections, Driveways, and Turnouts

Prime coat shall meet the requirements of Item 310.

Daily testing requirements for Hot Mix Asphaltic Concrete Pavements for drives, commercial entrances and/or turnouts may be waived by the Engineer.

Public and private driveways need to have a smooth vertical transition tie-in between the proposed driveway and the existing driveway. The Contractor is to add a vertical taper if needed which will be subsidiary to Item 530.

#### ITEM 560: Mailbox Assemblies

Coordinate and verify final mailbox locations with TxDOT and the US Postmaster.

ITEM 585: Ride Quality for Pavement Surfaces

Use Surface Test Type "B" for service roads and ramps.

Quality control results shall be submitted to TxDOT the next working day after each day's paving.

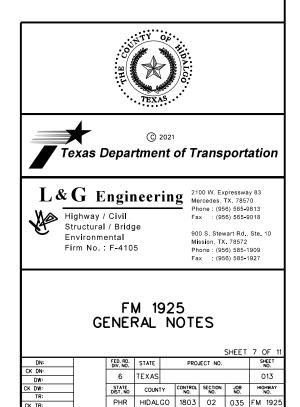
General Notes

## Sheet N

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Pavement areas with public turnout intersections that carry major traffic volumes will not be subjected to inertial profiler testing. These areas shall be evaluated using the 10-ft. straightedge.

Diamond grinding shall be used to remove localized roughness.

Use Surface Test Type B pay adjustment schedule 1 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces." This includes ramps and service road travel lanes.

#### ITEM 610: Roadway Illumination Assemblies

Luminaires shown on the proposed Traffic Signal installation layout sheets may be shown at an angle for clarity. All luminaires shown shall be installed perpendicular to the main roadway under construction.

In addition to ED (3)-14, each cable for luminaires shall be identified in each ground box, pole base, or other accessible location with yellow electrical tape wrapped around the cable. The tape marking shall be at least 2 inches.

All luminaires on traffic signal poles shall be rated for 240 vac. All safety lighting poles shall be serviced for 480 vac.

Luminaires installed on traffic signal poles will not be paid for directly, but shall be considered subsidiary to the various bid Items of the project.

#### ITEM 618: Conduit

All conduit ends in pole bases, controllers and ground boxes shall be plugged with 4 to 6 inches of polyurethane sealant or its equivalent after cables are in place.

Conduit shall be placed in a straight line not to exceed 2.0 feet in any direction. The depth of the conduit shall be 2.0 feet except when crossing a roadway where the depth shall not be more than 3.0 feet nor less than 1.0 foot below the bottom of the base material in the roadway when placed by the jacking or boring method. Any evidence of damage to the roadway during the jacking or boring operation shall be sufficient grounds to stop the method being used.

Conduit runs under paved roadways or driveways shall be jacked or bored and then pushed across. At these locations, galvanized rigid metal may be used. All other runs shall be made by trenching. Existing pavement which will be removed, reconstructed or overlaid with new pavement may be trenched across.

Trenches for conduit runs shall be a minimum 2 feet deep and 4 inches wide. The conduit shall be placed on a 2-inch sand cushion and then backfilled with a minimum of 6 inches sand fill. The remainder

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of the trench shall be backfilled with flexible base, soil or two-sack concrete as required by location of conduit on the project or as directed. The top 3 inches shall match the existing surface material.

All conduit elbows and rigid extensions required to be installed on PVC conduit systems will not be paid for separately, but will be considered subsidiary to the various bid items.

Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) - Construction Division's (CST) materials producers list. Category is "Roadway Illumination and Electrical Supplies."

## ITEM 620: Electrical Conductors

For Flashing Beacons (Item 685) and Ped poles (Item 687) within the project, provide single-pole breakaway disconnects.

Use Bussman HEBW, Littelfuse LEB, Ferraz-Shawmut FEB, or equal on ungrounded conductors.

For all grounded conductors use Bussman HET, Littelfuse LET, Ferraz-Shawmut FEBN, or equal on ungrounded conductors. For all grounded conductors use Bussman HET, Littelfuse LET, Ferraz Shawmut FEBN, or equal. These breakaway connectors have a white colored marking and a permanently installed solid neutral.

## ITEM 621 · Tray Cable

Connect luminaires on traffic signal poles using a 4 conductor trav cable with conductor colors of red, black and green #12 AWG (XHHW). The white (neutral) conductor will not be needed and will be capped.

### ITEM 628: Electrical Services

Arrange for and cooperate with the utility company to provide electrical power for the service(s) shown and as required by the plans. A meter will be required on all electrical services.

#### ITEMS 636: Signs

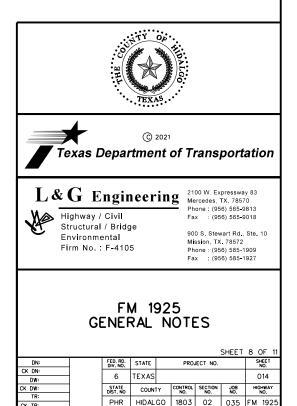
Complete sign blanks and panels shall be handled and stored at the job site in such a manner that comers, edges and faces are not damaged. Finished sign blanks shall be stored in either a weatherproof ware-house or outside and off the ground in a vertical position. All paper, cardboard and chemically treated separators and packaging shall be removed prior to outside storage.

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#### ITEM 644: Small Roadside Sign Assemblies

All signs shall be installed as shown in the plans and in accordance with the current edition of the "Texas Manual on Uniform Traffic Control Devices" and the "Sign Crew Field Book" (SCFB).

All signs shall be erected according to the locations shown on the signing layout sheets except that a sign may be shifted in order to secure a more desirable location. All sign locations will be staked as shown in the plans and as approved. It is the intent of the plans to erect all roadside traffic signs with the sign edge a minimum of 6 feet from the edge of the shoulder, or if none, 12 feet from the edge of the travel lane. In curb and gutter sections the sign edge shall be a minimum of 2 feet from the face of the curb.

For this project, aluminum type sign blanks as provided for under Item 636 will be required for all proposed signing installed under Item 644. Aluminum sign blanks less than 7.5 souare feet shall be 0.08 inch thick, sign blanks 7.5 to 15 square feet shall be 0.100 inch thick and sign blanks greater than 15 square feet shall be 0.125 inch thick.

All excess excavation shall be spread uniformly inside the right of way as directed and shall be included in the price of these Items.

Sign types which design details are not shown on the plans shall conform with the latest edition of the Department's "Standard Highway Sign Design for Texas" Manual.

Signs shown to be removed shall include the complete sign installation and separate the sign post at the concrete foundation. The concrete foundation shall be disposed in accordance with this Bid Item. Except for concrete foundations, all removed sign panels, sign posts, and hardware shall remain then property of the Department. All removed sign installations shall be completely disassembled. All salvageable sections of sign panels shall be recycled by TxDOT. The removed sign material will be required to be hauled to the maintenance yard closest to the project. No signs shall be removed without prior approval.

#### ITEM 656: Foundations for Traffic Control Devices

The dimensions shown on the plans for location of signal pole foundations, conduit and other items may be varied to meet existing conditions as approved.

The work area shall be cleaned up and all loose material resulting from the contract operations shall be removed from the work area each day before work is suspended.

No traffic signal pole shall be placed on the foundations prior to seven (7) days following placement of concrete.

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Sheet Q

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#### ITEMS 662 and 666: Work Zone Pavement Markings and Retroreflectorized Pavement Markings

All permanent pavement markings and work zone pavement markings for this project under these Items shall be 0.100 inches (100 mil) thick thermoplastic.

Any permanent pavement markings or non-removal work zone pavement markings lacking reflectivity in accordance with the requirements of Tex \$28-B, or that fail to meet minimum retro reflectivity requirements for longitudinal pavement markings when required, will be addressed per the requirements of the specification. The roadway will be re-striped at no additional compensation.

Pavement surface preparation for markings and markers will not be paid for directly, but shall be considered subsidiary to Item 666.

Prior to any striping operations, an on-site coordination meeting between all the parties involved will be required to review striping details and requirements to ensure quality work.

The beads used on this project shall meet the requirements of Departmental Materials Specification DMS-8290, Glass Traffic Beads Texas Type II & III. Use a 50% Type II/ 50% Type III mix utilizing a double drop system with Type III beads dropped first.

#### ITEM 677: Eliminating Existing Pavement Markings and Markers

Asphalt and aggregate types and grades shall be as approved in writing when a surface treatment is used to eliminate existing pavement markings.

#### ITEM 680: Highway Traffic Signals

The installation of highway traffic signals shall consist of the following principal Items:

- 1. Furnishing and installing 16-phase full traffic actuated controllers, base mounted cabinets, conflict monitors, load switches and loop amplifiers.
- 2. Furnishing and installing either steel mast arm poles, or steel strain poles and span wire and pedestal poles (as shown on plans), electrical service, luminaires, signal heads, signal cables, pedestrian heads and pedestrian push buttons with signs that meet the "Americans" with Disabilities Act" Standards, loop detectors, ground boxes, conduit runs and controller concrete foundations.
- 3. Removal and disposal of existing signal material specified in the plans.
- 4. All other Items not listed above which are needed to provide for complete traffic signal installations and for proper signal operation as called for in the plans and specifications shall be furnished and installed.

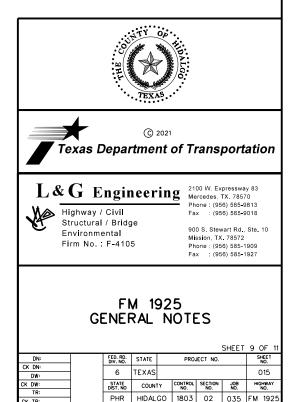
Any deviation of location for proposed signal work shall be as approved.

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## Sheet R

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## Signal controller

The signal installations shall be wired in accordance with the phase diagrams in the plans. The proposed base mounted cabinet shall contain 16-phase conflict monitor which display the "R-Y-G" and "Walk" phases. In addition to detecting phasing conflicts, the conflict monitor shall also be able to detect multiple signal head indications within every phase. The conflict monitor shall continue to operate in the event of a power supply failure in the timer and shall be able to retain in memory the time and date of the failure detection. Time changes shall be programmable in the field without replacing components or use of external devices. The full-actuated controller shall meet N.E.M.A. Specifications.

A controller manufacturer's technician shall be required to load initial timing programs into the controllers as called for in the plans. Once the traffic signals are turned on, the same technician shall monitor the signal operation and traffic movement and shall adjust settings for best signal operation. The technician shall provide the State with a certification that the timing plan and coordination has been established according to the plans. This certification shall include a record showing all settings and functions programmed into the timer and any related units.

The controller must be delivered with two sets of wiring diagrams and operating manuals enclosed in a weatherproof bag.

All wiring not covered by the plans and specifications shall be in accordance with the latest edition of the National Electrical Code.

#### Existing utilities

The exact location of existing underground utilities shall be verified with the utility companies prior to construction to avoid conflict with or damage to these utilities.

Coordination with the utility companies will be required to make any adjustments, due to utility conflicts, as defined in the specifications or deemed necessary.

#### Uniformity in Equipment

- 1. All traffic signal heads furnished shall be by the same manufacturer.
- 2. All signal fittings and pipe brackets shall be of an approved metallic material and of the same design and manufacturer.
- 3. All traffic signal poles furnished shall be by the same manufacturer.
- 4. All loop detector amplifiers furnished shall be by the same manufacturer.

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Sheet S

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### Handling of Traffic

Roads and streets shall be kept open to traffic at all times. The setting of loop detectors shall be arranged so as to close only one lane of a roadway at a time. The installation of signal heads, poles and conduit shall also be arranged so as to permit the continuous movement of traffic in both directions at all times.

All construction operations shall be conducted to provide the least possible interference to traffic as shown on the plans, as provided for in the specifications and/or as directed. All signing, barricading and handling of traffic shall conform to the current edition of the "Texas Manual on Uniform Traffic Control Devices".

#### Sequence of work

- 1. The existing traffic signal installations shall remain in operation at all times during construction of the proposed traffic signal installations or modifications.
- 2. The complete removal of the specified existing traffic signals or specified Items will be required when the proposed traffic signal installations are in place and operational.
- 3. All labor, tools, and materials used to remove the specified existing traffic signal material shall not be paid for directly, but be considered subsidiary to the various items of work.
- Final inspection shall be conducted in conjunction with the district signal shop.

#### ITEM 682: Vehicle and Pedestrian Signal Heads

All signal heads shall be covered with burlap from the time of installation until the signal is placed in operation. All signal heads shall be of polycarbonate material and yellow in color. Signal heads shall have standard detachable visors. LED's shall be furnished for all traffic signal heads.

Signal heads shall be positioned carefully to provide the best view of signal indications to motorists. All signal heads shall be installed to a neat overall appearance. Nominal height for signal heads above pavement surface shall be 18 feet 6 inches, plus/minus 3 inches

Pedestrian signal heads shall be positioned carefully to provide the best view to pedestrians.

#### ITEM 684: Traffic Signal Cables

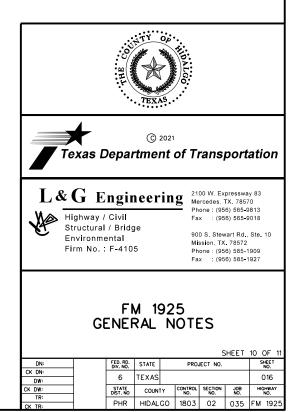
All signal cable shall be #12 AWG; 2/c loop. Lead-In shall be #14 AWG shielded and loop wires in pavement.

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## Sheet T

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#### ITEM 686: Traffic Signal Pole Assemblies (Steel)

The locations for the proposed traffic signal poles are approximate. The exact locations will be determined in the field in coordination with the District Signal Shop.

Erection and/or removal of poles and luminaries located near any overhead electrical power lines shall be accomplished using established industry and utility safety practices. The appropriate utility company shall be consulted with prior to beginning such work.

#### ITEM 688: Pedestrian Detectors and Vehicle Loop Detectors

The Contractor shall install loop vehicle detectors in accordance with the Intersection layouts in the plans or as directed. Each loop detector Lead-In cable shall be tagged inside the controller cabinet with its loop number. The loop amplifiers shall indicate the loop and phase of control or direction of control. Loop wires in street shall be #14 AWG. Pedestrian detectors shall meet the minimum requirements called for by the "Americans with Disabilities Act".

Loop detector lead-in cable shall be continuous from ground box to the controller.

Splices for loop wire will be permitted only at ground boxes or pole base with approved weatherproof splice kits.

A minimum length of 2.0 feet for each cable shall be left in each ground box.

ITEM 1007: Irrigation Wells. Gates and Valves

If the Contractor elects, a larger size Item may be furnished and installed at no extra cost to the State.

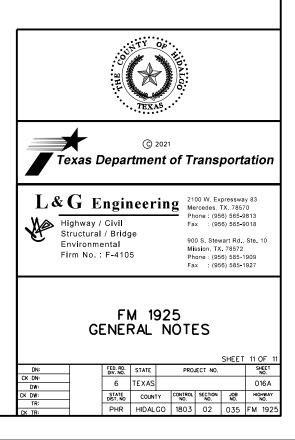
#### ITEM 6185: Truck Mounted Attenuator/Trailer Attenuator

In addition to the shadow vehicles with truck mounted attenuator (TMA) that are specified as being required on the traffic control plan for the project, provide  $\underline{1}$  additional shadow vehicle(s) with TMA as per TCP (2-3) -18 as detailed on General Note 8 of this standard sheet; provide  $\underline{1}$  additional shadow vehicle(s) with TMA as per TCP (2-5) -18 as detailed on General Note 4 of this standard sheet.

Therefore,  $\underline{2}$  total shadow vehicles with TMA will be required on this project for the type of work as shown on the plans. The Contractor will be responsible for determining if one or more of his construction operations will be ongoing at the same time and thus determine the total number of TMAs needed for the project.

General Notes

Sheet U



										SUMMA	RY OF RC	ADWAY I	TEMS									
				Δ CUT     Δ	FILL			SUBGR	RADE	F	LEXIBLE BASE		PRIME	COAT	SE AL	COAT		HOT MIX	ASPHAL T		PLA	ANING
			100	110	132	160	204	260	260	247	275	275	310	310	316	316	3077	3077	3077	3084	3	54
			6002	6001	6006	6005	6003	6011	6043	6225	6001	6031	INFO-ONLY	6009	6005	6486	INFO-ONLY	6065	6065	6001	6041	6051
	INCIDENTAL	RECONST.	PREPARING	EXCAVATION	EMBANKMENT	FURNISHING	SPRINK	LIME TREAT	LIME	FLEX. BASE	CEMENT	CEMENT	AREA	PRIME	ASPH	AGGR	AREA	SP MIXES (SP-D)	SP MIXES (SP-D)	BONDING	PLANE	PLANE
LOCATION	LENGTH	LENGTH	ROW	(ROADWAY)	(FINAL)	AND	DUST	(EXIST MATL)	HYD,COM OR	(RDWY DEL)	2% BY. WT	TREAT	_	COAT	(TIER II)	(TY-D GR-4P)	-	(SAC-A)	(SAC-A)	COURSE	ASPH CONC	ASPH CONC
LOCATION					(DENS CONT)	PLACING	CONTROL	(12")	QK(SLRY)	TY"E" GR.4		NEW BASE	8	(MC-30)		(SAC -B)	$\bigotimes$	(PG76-22)	(PG76-22)	0.07 GAL/SY		PAV
					(TY C)	TOPSOIL	8MG/STA		4.0% BY WT.	(FINAL POS)		(10'')		0.2 GAL/SY	0.30 GAL/SY			171•/SY	342•/SY		(1.5")	(0" TO 11/2")
	(FT)	(FT)	(STA)	(CY)	(CY)	(CY)	(MG)	(SY)	(TON)	(CY)	(TON)	(SY)	(SY)	(GAL)	(GAL)	(CY)	(SY)	(TON)	(TON)	(GAL)	(SY)	(SY)
			EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.
FM 1925	1440	8264	82.64	62089	1730	50	661	77364	1532	20621	696	76446	71418	14284	21426	595	71418	938	12212	4999	10780	386
GRAND TOTAL	1440	8264	82.64	62089	1730	50	661	77364	1532	20621	696	76446	71418	14284	21426	595	71418	938	12212	4999	10780	386

 $\pmb{\varkappa}$  percent of lime and cement may be varied where required or as directed by the engineer SFOR CONTRACTORS USE ONLY (NON-PAY)

(A) ITEM 110 (EXCAVATION) INCLUDES THE REMOVAL OF EXIST. ACP AND BASE MATERIAL FROM FM 1925 ROADWAY THAT IS IN THE CUT PLAIN OF THE PROPOSED TYPICAL SECTION AND SHALL NOT BE USED AS SALVAGE MATERIAL.

EST. WT. OF SUBGRADE = 2970 •/CY (COMPACTED)

EST.WT.OF FLEXIBLE BASE (NEW) = 3375 •/CY COMPACTED DRY WEIGHT

						SUN	MARY OF	TEMPORA	RY & PERM	ANENT TR	AFFIC SIGN	IALS						
	4	16			6	518				620		621	6	24	625	628	68	80
	NON-PAY	6032	6016	6023	6024	6029	6033	6034	6007	6009	6010	6005	6002	6008	6003	6119	6002	6004
	DRILL SHAFT	DRILL SHAFT	CONDT	CONDT	CONDT	CONDT	CONDT	CONDT	ELEC	ELEC	ELEC	TRAY	GRND BOX	GRND BOX	ZINC-COAT	ELC SRV	INSTALL	REMOVING
INTERSECTION		(TRF SIG	(PVC)	(PVC)	(PVC)	(PVC)	(PVC)	(PVC)	CONDR	CONDR	CONDR	CABLE	TY A	TYC	STL WIRE	TYD	HWY TRF	TRAFFIC
LOCATION	POLE)	POLE)	(SCH 40)	(SCH 40)	(SCH 40)	(SCH 40)	(SCH 40)	(SCH 40)	(NO. 8)	(NO. 6)	(NO. 6)	(4 CONDR)	(122311)	(162911)	STRAND	120/240 060		SIGNALS
	(24'') 🛞	(36")	(1")	(2")	(2")(BORE)	(3")	(4'')	(4")(BORE)	BARE	BARE	INSULATED	(12 AWG)	W/ APRON	W/ APRON	(3/8 IN)	(NS)AL(T)TS(O)	(ISOLATED)	
	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(LF)	(LF)	(EA)	(EA)
	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.
				0.75	170	75		115	0.05			775			1100			
BRUSHLINE	5.7	60.8	65	935	130	75	60	145	285	55	110	335	8		1100		1	
GRAND TOTAL	5.7	60.8	65	935	130	75	60	145	285	55	110	335	8	3	1100	1	1	1

FOR CONTRACTORS USE ONLY (NON-PAY)

							SUN	MARY OF	TEMPORARY	& PERMA	NENT TRA	FFIC SIGN	ALS CONT	INUED							
	681					682							684			68	6	687		688	
	6001	6001	6002	6003	6004	6005	6006	6018	6054	6055	6008	6010	6012	6027	6080	6019	6020	6001	6001	6003	6004
[	TEMP	VEH SIG	VEH SIG	VEH SIG	VEH SIG	VEH SIG	VEH SIG	PED SIG	BACK	BACK	TRF SIG	TRAF SIG	TRAF SIG	TRAF SIG	TRAF SIG	INS TRF	INS TRF	PED POLE	PED	PED	VEH LP
INTERSECTION						SEC (12 IN)		SEC (LED)	PLATE	PLATE			CBL (TY A)		CBL (TY C)	SIG PL AM	SIG PL AM	ASSEMBLY	DETECT PUSH		DETECT (SAWCUT)
LOCATION	SIGNALS	LED	LED	LED	LED	LED		(COUNTDOWN)	W/REF BRDR		(12 AWG)	(12 AWG)	(12 AWG)	(14 AWG)	(14 AWG)	(S) STR	(S) STR			CONTROLLER	(SAWCUT)
		(GRN)	(GRN ARW)	(YEL)	(YEL ARW)	(RED)	(RED ARW)		(3 SEC)(VENT)			(5 CONDR)	(7 CONDR)	(1 CONDR)	(2 CONDR)		(TY D) LUM		(APS)	UNIT	
	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	ALUM (EA)	ALUM (EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(EA)	(LF)
	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.
BRUSHLINE	1	6	1	6	2	6	1	4	6	1	420	975	220	130	1665	2	2	1	4	1	1270
GRAND TOTAL	1	6	1	6	2	6	1	4	6	1	420	975	220	130	1665	2	2	1	4	1	1270

SUMMARY O SIGNS	F REMOVE	E AND INS	TALL SMA	LL ROAD					
	636	644							
	6001	6027	6030	6076					
LOCATION	ALUMINUM	IN SM RD	IN SM RD	REMOVE					
	SIGNS	SN SUP&AM	SN SUP&AM	SM RD SN					
	(TYA)	TY S80 (1)	TY S80 (1)	SUP & AM					
		SA (P)	SA (T)						
	(SF)	(EA)	(EA)	(EA)					
	EST.	EST.	EST.	EST.					
FM 1925									
SHEET 1 OF 5	34	3	2	5					
SHEET 2 OF 5	33	3	1	4					
SHEET 3 OF 5	84	3	4	7					
SHEET 4 OF 5	63	3	3	5					
SHEET 5 OF 5									
GRAND TOTAL	214	12	10	21					

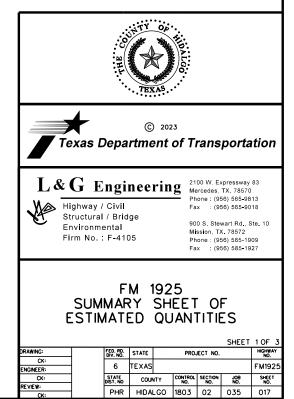
SUMMARY OF DRIVEWAYS									
530									
	6002	6004	6005						
LOCATION	INTERSECTION	DRIVEWAYS	DRIVEWAYS						
	(ACP)	●(CONC)	(ACP)						
	(SY)	(SY)	(SY)						
	EST.	EST.	EST.						
FM 1925	2284	106	398						
BRUSHLINE			78						
GRAND TOTAL	2284	106	476						

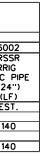
● SEE DRIVEWAY TABLE SHEET FOR PRIVATE & INTERSECTION LOCATIONS. "INTERSECTIONS" SHALL BE CONSIDERED PUBLIC DRIVEWAYS AND SHALL BE CONSTRUCTED TO THE PROPOSED ROADWAY ACP, FLEXBASE, AND SUBGRADE THICKNESSES.

SUMMARY OF	F MAILBOXES
	560
	6007
LOCATION	MAILBOX INSTALL-S (WC-POST)
	TY 3 EA
	EST.
FM 1925	
STA. 343-24.05 (LT)	1
GRAND TOTAL	1

			SUMMAR	Y OF PR	OP. IRRIGAT	ION STRU	JCTURES			
		4(	00		402	464	10	07	10	08
	NON-PAY	6006	6010	6011	6001	6008	6006	6005	6001	600
LOCATION	STRUCT EXCAV	CUT & RESTORING PAV	STRUCT EXCAV (SPL)	SAND BACKFILL	TRENCH EXCAVATION PROTECTION	RCP CL III (36'')	IRRIG GATE (24'')	IRRIG WELL (30")	PRSSR IRRIG PVC PIPE (18'')	PRSS IRRIC PVC F (24)
	(CY)	(SY)	(CY)	(CY)	(LF)	(LF)	EA	EA	(LF)	ĹF
	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST
FM 1925										
STA. 307•67	347	67	26	81	133	120	1	2	4	140
TOTAL	347	67	26	81	133	120	1	2	4	140

★ FOR CONTRACTORS USE ONLY (NON-PAY)





					512		545	I	SUM	MARY O	F TRAFFIC	CONTRO					1		677			6195
TCF	P PHASE	50: 600 BARRIC SIGNS TRAFF HANDI (MC	01 6001 ADES, CONSTRUC AND DETOUR TC ING 0) (SY)	6005 TING PORT CTB (FUR&INST) (F-SHAPE) (TYPE 1) (LF)	512 6053 PORT CTB (REMOVE) F-SHAPE TYPE 1 (LF)	ATTEN (REMOVE (EA)	SH CRASH ATT ) (INS) (S)(N) (E)	CUSH W EN M TL) R (TL3) A)	MRK NON- EMOV (W) 6"(SLD) (LF)	6012 WK ZN PAV MRK NON- REMOV (W) 8" (SLD) (LF)	MRK NON- REMOV (W) 24" (SLD) (LF)	6017 WK ZN PAV MRK NON- REMOV (W) (W) (ARROW) (LF)	MRK NON- REMOV (Y) 6" (SLD) (LF)	6050 WK ZN PAV MRK REMOV (REFL) TY II-A-A (LF)	6109 WK ZN PAV MRK SHT TERM TY W (LF)	6111 WK ZN PAV MRK SHT TERM TY Y-2 (LF)	6001 ELIM EXT PAVE MRK & MRKS (4") (LF)	(LF)	6007 ELIM EXT PAVE MRK & MRKS (24") (LF)	6008 ELIM EXT PAVE MRK & MRKS ARROW (LF)	6012 ELIM EXT PAVE MRK & MRKS WORD (LF)	6185 6002 TMA (STATIONARY) (DAY)
PHASE I-	HASE I SHEET 1 OF	5 ES1	EST.	EST.	EST.	EST.	ES	T	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.
PHASE 1- PHASE 1-	SHEET 2 OF SHEET 3 OF SHEET 4 OF	5 5	20 689 1268																			
	SHEET 5 OF	5																				
PHASE II - PHASE II -	SHEET 1 OF SHEET 2 OF SHEET 3 OF	5 5		522 2138 2101	522 2138 2101 162	1 4 4	1 4 4		3200 4440 4417	100	38	1	3200 4440 6038	80 112 151			4296 5325 10136		26	2	1	
PHASE II -	SHEET 4 OF SHEET 5 OF II - STEP 2		340	162	162	1	1		4522				4522	113			8585					
	HASE III SHEET 1 OF	6							620				620	16			1914					
PHASE III - PHASE III -	SHEET 2 OF SHEET 3 OF SHEET 4 OF	6 6							3516 4454 4605	100	38	1	3516 4454 6490	88 111 162			3960					
PHASE III - PHASE III -	SHEET 5 OF SHEET 6 OF III - STEP 2	6							4207				4404	110				1800				
	ASE IV														1193	2004						
GRAM	ND TOTAL	17	2317	4923	4923	10	10		33981	200	76	2	37684	943	1193	2004	34216	1800	26	2	1	24
		SUMMARY	OF REMOVAL	OF CONCRET	E ITEMS A	ND PROPO	SED CON	CRETE I	TEMS													
	6009	6013	104 6017	6022	6002	496 6004	6007	6016	6051			6004	531 6005									
	REMOVING CONC (RIPRAP)	REMOVING CONC (FOUNDATIONS	REMOVING CONC (DRIVEWAYS	REMOVING CONC ) (CURB &	REMOVE STR (INLET)	REMOVE STR (SET)	REMOVE STR (PIPE)	REMOVE STR (PIPE)	REMOV STR (PIPE	& GUTT		ER RAMPS										
	(SY) EST.	(SY) EST.	(SY) EST.	GUT TER) (LF) EST.	(EA) EST.	(EA) EST.	(LF)	(EA) EST.	GATE (LF) EST.		T) (GUTTE (LF)	(EA)	(EA)									
& P SHEET	51.					251.	EST.	231.					EST.									
1 OF 20 2 OF 20 3 OF 20				10	2	2	85		24	110												
4 OF 20 5 OF 20 6 OF 20						2	53		25	1000 991 970	167 100											
6 OF 20 7 OF 20 8 OF 20 9 OF 20						4	117 60			1005 1000 974	85											
10 OF 20 11 OF 20 12 OF 20					2	2	102			1000 1000 1000									r			
13 OF 20 14 OF 20 15 OF 20		33	384 60			4	118		47 27	1007 1000 1000		1	2								iounit.	
16 OF 20						6	105			847	149										E	ALL.
18 OF 20 19 OF 20 20 OF 20																					- <b>7</b>	XAS
& D SHEET 15 OF 18							40	1													(	© 2023
IRRIGATION TA. 307+67							14.4													Теха		ent of Transpor
OUTFALL	18																			 	<b>F</b>	2100 W. Expressy
RAND TOTAL	18	33	444	10	4	22	824	1	123	13915	765	1	 							Highw		ering Phone : (956) 565 Fax : (956) 565
	6010			ED PVMT. MARK	INGS, PREFAB. 666 6078							572	1							Envire	tural / Bridge onmental No. : F-4105	900 S. Stewart Rd Mission, TX. 7857 Phone : (956) 585
PAVEMENT	6018 REFL F MRK T	PAV REFL	PAV REFL P 'I TY	AV REFL PAV	REFL PAN	RET REQ	W/ RE P	EQ TY RE	T REQ TY	6321 RE PM W/ RET REQ T	Y MRKR	6009 REFL PAV MRKR	1						ŀ			Fax : (956) 585
SHEET	(W) 6" ( (100Mi (LF)	IL) (100	MIL) (100MI	.) (100MIL)	/) (W)(WORD (100MIL) (EA)		.) (100	MIL)	() 6" (BRK) (100MIL) (LF)	(Y) 6" (SLD (100MIL) (LF)	) TY I-C (EA)	TY II-A-A (EA)									FM	1925
FM 1925	EST.			EST.	EST.	EST.	ES		EST.	EST.	EST.	EST.	]							SI ES	UMMARY	SHEET OF QUANTITIES
SHEET 1 OF 5 SHEET 2 OF SHEET 3 OF	6		40			<u>300</u> 1000	12 38	20 330 910	230 960 955	1220 3980 3820	16 50	40 96										SHEE
SHEET 4 OF SHEET 5 OF	6 6 207	62 7	70 0 260 60	2	2	1000 960 450	<u> </u>	950 940	955 480 580	4380 5460	50 79 23	96 161 129								RAWING: CK: NGINEER:	FED. RD. DIV. NO. STATE 6 TEXA	E PROJECT NO.
HEET 6 OF RAND TOTAL		, 62	0 430	4	2	3710	21 191	90 140	3205	3420 22280	218	84 606	_						R	CK: EVIEW: CK:		DUNTY CONTROL SECTION JOB NO. NO. NO. DALGO 1803 02 035

						SHEET	2	OF	3
DRAWING:	FED. RD. DIV. NO.	STATE		PROJ	ECT NO.			HIGHW/ NO.	AY
CK: ENGINEER:	6	TEXAS					F	M19	25
CK:	STATE DIST. NO	COU	YTY	CONTROL NO.	SECTION NO.	JOB NO.		SHEE NO.	T
REVIEW:	PHR	HIDA	LGO	1803	02	035		018	

					SL	JMMARY O	F PROP. [	DRAINAGE	STRUCTUR	RES					
		ITEM	400		ITEM 402	ITEM 432					M 464				ITEM 465
	NON-PAY	6006	6010	6011	6001	6002	6003	6038	6039	6040	6041	6042	6043	6044	6006
SHEET NO.	STRUCT	CUT &	STRUCT	SAND	TRENCH	RIRRAP	RC PIPE	RC PIPE	RC PIPE	RC PIPE	RC PIPE	RC PIPE	RC PIPE	RC PIPE	JCTBOX
	EXCAV	RESTORE	EXCAV	BACKFILL	EXCAVATION	(CONC)	(CL III)	(CL III)	(CL III)	(CL III)	(CL III)	(CL III)	(CL III)	(CL III)	(COMPL)
	⊗	PAV	(SPL)		PROTECTION	(5")	(18'')	(18'')	(24'')	(30")	(36")	(42'')	(48'')	(54'')	(PJB)
								(SPL)	(SPL)	(SPL)	(SPL)	(SPL)	(SPL)	(SPL)	(4'X4')
	(CY)	(SY)	(CY)	(CY)	(LF)	(CY)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)
	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.
U&D SHEETS															
1 OF 18															
2 OF 18	331			14.4	295			81	295						
3 OF 18	636			268	630			240		390					
4 OF 18	839	39		266	540					540					
5 OF 18	590	41		255	508			163			345				
6 OF 18	651			280	549			159			390				
7 OF 18	1580	42		644	738			78				355	305		
8 OF 18	1391	70		639	636			156					480		
9 OF 18	1513	65		622	449							6.45		449	
10 OF 18	1450			470	724			79			074	645 190			
11 OF 18 12 OF 18	797 992	29		294 345	503 687			79 160	86		234 441	190			
13 OF 18	<u> </u>	29		345	650			160	00	195	295				
14 OF 18	715			318	674			80		594	295				
15 OF 18	384	11		184	192			166	19.3	109					
16 OF 18	J0 <del>4</del>			104	192			100	195	109					
17 OF 18															
18 OF 18				1			40	1					1	1	
OUTFALL	506		29	172	166	43						83		83	
GRAND TOTAL	13156	297	29	5221	7941	43	40	1601	574	1828	1705	1273	785	532	1

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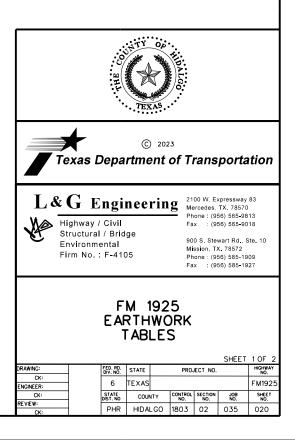
							SUMMAF	RY OF PRO	P. DRAINAG	SE STRUCT	<b>FURES</b>					
									ITEM 465							
	6014	6018	6030	6031	6032	6034	6035	6036	6038	6039	6040	6042	6043	6044	6071	6076
SHEET NO.	INLET (COMPL) (PCO)(3') (LEFT) (EA)	INLET (COMPL) (PCO)(4') (LEFT) (EA)	INLET (COMPL) (PCU)(3') (LEFT) (EA)	INLET (COMPL) (PCU)(3') (RIGHT) (EA)	INLET (COMPL) (PCU)(3') (BOTH) (EA)	INLET (COMPL) (PCU)(4') (LEFT) (EA)	INLET (COMPL) (PCU)(4') (RIGHT) (EA)	INLET (COMPL) (PCU)(4') (BOTH) (EA)	INLET (COMPL) (PCU)(5') (LEFT) (EA)	INLET (COMPL) (PCU)(5') (RIGHT) (EA)	INLET (COMPL) (PCU)(5') (BOTH) (EA)	INLET (COMPL) (PCU)(6') (LEFT) (EA)	INLET (COMPL) (PCU)(6') (RIGHT) (EA)	INLET (COMPL) (PCU)(6') (BOTH) (EA)	INLET (COMPL) (PSL)(RC) (4'X4') (EA)	INLET (COMPL (PSL)(R (6'X6' (EA) EST.
	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.
U&D SHEETS 1 OF 18																
2 OF 18			1	1												
3 OF 18			1	1	1	1	1	1								
4 OF 18															1	
5 OF 18				2		2										
6 OF 18			1		1			1		1						
7 OF 18				1								1				1
8 OF 18			1		1							1	2	1		
9 OF 18																2
10 OF 18				1					1							
11 OF 18					1				1	1	1					
12 OF 18			1	1		1	1									
13 OF 18				1	1	1		1								
14 OF 18			1				1									
15 OF 18	1	1		2											1	
16 OF 18																
17 OF 18																
18 OF 18																
OUTFALL																
														l	-	
GRAND TOTAL	1	1	6	10	5	5	3	3	2	2	1	2	2	1	2	3

				S	UMMARY OF	SEDIMENT	CONTROL D	EVICES					
	164	164	166	168					506				
	6028	6030	NON-PAY	6001	6002	6011	6021	6024	6038	6039	6041	6043	604
	CELL FBR	CELL FBR			ROCK FILTER	ROCK FILTER	CONSTRUCTION	CONSTRUCTION	TEMP SEDMT	TEMP SEDMT	BIODEGRADABLE	BIODEGRADABLE	BIODEGR
SW3P LAYOUT SHEET	MLCH SEED	MLCH SEED	FERTILIZER	VEGETATIVE	DAMS	DAMS	EXIT	EXIT	CONT FENCE	CONT FENCE	EROSION CNTRL	EROSION CNTRL	EROSION
SWOP LATOUT SHEET	(PERM)(URBAN)	(TEMP) (WARM)	⊗	WATERING	(INSTALL)	(REMOVE)	(INSTALL)	(REMOVE)	(INSTALL)	(REMOVE)	LOGS (12" DIA)	LOGS	LOGS (6
	(CLAY)		0		(TY 2)		(TY 2)				INSTALL	REMOVE	INST.
	(ACRE)	(ACRE)	(TON)	(MG)	(LF	(LF	(SY)	(SY)	(LF)	(LF)	(LF)	(LF)	(LF
	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	EST.	ES'
FM 1925													
SHEET 1 OF 4 (PHASE I)													
SHEET 2 OF 4 (PHASE I)		0.09					78	78					
SHEET 3 OF 4 (PHASE I)		0.98											
SHEET 4 OF 4 (PHASE I)		0.84					78	78					
SHEET 1 OF 4 (PHASE II)	0.67	0.67	0.17	102			78	78				80	80
SHEET 2 OF 4 (PHASE II)	0.95	0.95	0.24	145	35	35	78	78	345	345		130	
SHEET 3 OF 4 (PHASE II)	0.99	0.99	0.25	151							20	165	14
SHEET 4 OF 4 (PHASE II)	1.04	1.04	0.26	159			78	78				30	30
	0.70	0.70											
SHEET 1 OF 4 (PHASE III)	0.72	0.72	0.18	110			78	78				80	80
SHEET 2 OF 4 (PHASE III)	0.98	0.98	0.25	150								100	100
SHEET 3 OF 4 (PHASE III)	1.01	1.01	0.25	154			78	78				115 30	115
SHEET 4 OF 4 (PHASE III)	0.81	0.81	0.20	124			/8	/8				30	1 30
	7 17	0.00	1.00	1005	76	76	E 4 C	EAC	745	745		770	71
GRAND TOTAL	7.17	9.08	1.80	1095	35	35	546	546	345	345	20	730	710

STOR CONTRACTORS USE ONLY (NON-PAY) NOTES: 1. FERTILIZER APPLICATION RATE - 3394 GAL/AC @ 45 CYCLES. 2. VEGETATIVE WATERING APPLICATION RATE - 3394 GAL/AC @ 45 CYCLES.

76 .T PL) (RC) 6') N) T.	6149 INLET (COMPL) (PAZD)(SL) 3F TX3F T) (EA) EST.	ITEM 467 6363 SET (TY II) (18") (RCP) (6:1)(P) (EA) EST.	
	1	2	BILL OF THE OF T
045 GRADAB DN CNT (6" DL STALL LF) SST. 80	RL		Image: Construction of the system of the
130 145 30 80 100 115 30 710			Fax : (956) 586-1927           FM 1925           SUMMARY SHEET OF           SHEET 3 OF 3

tation	Material Name	(sq. f	Volumes (t.) (cu. yd.	ted Adjusted Volumes .) (cu. yd.)	Factor Ord	Jinate	Station	Material Name	(sq.	ft.) (cu. y	sted Adjusted Volumes d.) (cu. yd.)	Factor	· Ordi
1+50.00	DIRT						288+00.00	DIRT				_	
	Excavation	88.6	0	0	1	0		Excavation	226.6	809	809	1	
62+00 00	Fill	13.2	0	0	1	0		Fill	5.1	16	16	1	2
62+00.00	DIRT Excavation	85.9	162	162	1		289+00.00	DIRT	240.0	010	010		
	Fill	20.9	32	32	1	130		Excavation	210.6	810	810	1	2
63+00.00	DIRT	20.5	52	52	-	100	290+00.00	Fill DIRT	2.9	15	15	1	2
	Excavation	105.1	354	354	1		230+00.00	Excavation	219	796	796	1	
	Fill	12.3	61	61	1	423		Fill	4.4	14	14	1	2
264+00.00	DIRT						291+00.00	DIRT					
	Excavation	133.4	442	442	1			Excavation	237.1	845	845	1	
265+00.00	Fill DIRT	10.8	43	43	1	822		Fill	3.6	15	15	1	2
203+00.00	Excavation	162.7	548	548	1		292+00.00	DIRT	252.7	007	007	1	
	Fill	8.9	36	36	1	1334		Excavation Fill	252.7 3.4	907 13	907 13	1 1	2
66+00.00	DIRT	0.0			-	1001	293+00.00	DIRT	5.4	15	15	1	2
	Excavation	192.3	657	657	1		293100.00	Excavation	281.6	989	989	1	
	Fill	6.9	29	29	1	1962		Fill	1.9	10	10	1	2
267+00.00	DIRT						294+00.00	DIRT					
	Excavation	187.6	704	704	1			Excavation	258.3	1000	1000	1	
	Fill	6.2	24	24	1	2642		Fill	2	7	7	1	2
268+00.00	DIRT	198.1	714	714	1		295+00.00	DIRT					
	Excavation Fill	3.8	14	714 19	1 1	3337		Excavation	297.7	1030	1030	1	~
69+00.00	DIRT	5.0	10	15	-		296+00.00	Fill DIRT	2.5	8	8	1	2
	Excavation	245.3	821	821	1		250+00.00	Excavation	262.5	1037	1037	1	
	Fill	1.7	10	10	1	4148		Fill	3.5	1057	11	1	3
70+00.00	DIRT						297+00.00	DIRT				-	5
	Excavation	280	973	973	1	5446		Excavation	232.7	917	917	1	
71.00.00	Fill	1	5	5	1	5116		Fill	2.7	11	11	1	3
271+00.00	DIRT Excavation	266.1	1011	1011	1		298+00.00	DIRT					
	Fill	0.5	3	3	1 1	6124		Excavation	208.5	817	817	1	2
72+00.00	DIRT	0.5	5	5	Ŧ	0124	299+00.00	Fill DIRT	4	12	12	1	3
	Excavation	238.9	935	935	1		299+00.00	Excavation	173.5	707	707	1	
	Fill	0.3	1	1	1	7058		Fill	2.7	12	12	1	3
73+00.00	DIRT						300+00.00	DIRT				-	5
	Excavation	181.6	779	779	1			Excavation	121.1	546	546	1	
	Fill	0	1	1	1	7836		Fill	8.8	21	21	1	3
74+00.00	DIRT	204.2	715	715	1		301+00.00	DIRT					
	Excavation Fill	204.3 7.4	715 14	715 14	1 1	8537		Excavation	114.4	436	436	1	2
75+00.00	DIRT	7.4	14	14	T	8557	303+00-00	Fill	15	44	44	1	3
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Excavation	218	782	782	1		302+00.00	DIRT Excavation	114.1	423	423	1	
	Fill	5.9	25	25	1	9294		Fill	17.4	60	60	1	3
76+00.00	DIRT						303+00.00	DIRT				-	
	Excavation	199.5	773	773	1			Excavation	161.1	510	510	1	
	Fill	4.8	20	20	1	10047		Fill	5.6	43	43	1	3
77+00.00	DIRT	252.6	0.7	0.27	1		304+00.00	DIRT					
	Excavation Fill	252.6 2.4	837 13	837 13	1 1	10871		Excavation	187.8	646	646	1	
78+00.00	DIRT	2.4	15	12	T	100/1	205-00-00	Fill	4.6	19	19	1	3
	Excavation	321.3	1063	1063	1		305+00.00	DIRT Excavation	210.1	727	727	1	
	Fill	1.6	7	7		11927		Fill	4.1	737 16	737 16	1 1	3
79+00.00	DIRT						306+00.00	DIRT	7.1	10	10	1	J
	Excavation	325.2	1197	1197	1			Excavation	234.2	823	823	1	
	Fill	0.9	5	5	1	13119		Fill	3.6	14	14	1	3
80+00.00	DIRT	222 5	1100	1100	4		307+00.00	DIRT					
	Excavation	322.5	1199	1199	1	1/21/		Excavation	269.3	932	932	1	
81+00.00	Fill DIRT	1.1	4	4	1	14314		Fill	3.1	12	12	1	3
	Excavation	341.2	1229	1229	1		308+00.00	DIRT Excavation	301.6	1057	1057	1	
	Fill	0.2	2	2		15541		Fill	301.6 2.7	1057 11	1057 11	1	3
82+00.00	DIRT		-	-	-		309+00.00	DIRT	2.1	11	11	Т	3
	Excavation	363	1304	1304	1		303.00.00	Excavation	306.9	1127	1127	1	
	Fill	0.9	2	2	1	16843		Fill	2.7	10	10	1	З
83+00.00	DIRT	0.00	40.45	40.44	-		310+00.00	DIRT					
	Excavation	363	1344	1344	1	10105		Excavation	290.8	1107	1107	1	
84+00.00	Fill DIRT	0	2	2	1	18185	011.00.00	Fill	2.9	10	10	1	4
.04+00.00	Excavation	322.1	1269	1269	1		311+00.00	DIRT	262.0	1027	1077	-	
	Fill	1.1	2	2		19452		Excavation Fill	263.8 3.9	1027 13	1027 13	1 1	4
85+00.00	DIRT		4	-	-		312+00.00	DIRT	5.9	13	12	T	4
	Excavation	263.4	1084	1084	1		512+00.00	Excavation	227.3	909	909	1	
	Fill	2.6	7	7		20529		Fill	5.7	18	18	1	4
86+00.00	DIRT						313+00.00	DIRT					
	Excavation	200.7	859	859	1	24277		Excavation	184.6	763	763	1	
07.00.00	Fill	3.1	11	11	1	21377		Fill	6	22	22	1	4
87+00.00	DIRT	210.2	701	761	1		314+00.00	DIRT					
	Excavation Fill	210.3 3.5	761 12	761 12	1 1	22126		Excavation	140.7	602	602	1	
	1.00	5.5	12	12	т	22120		Fill	18	44	44	1	4

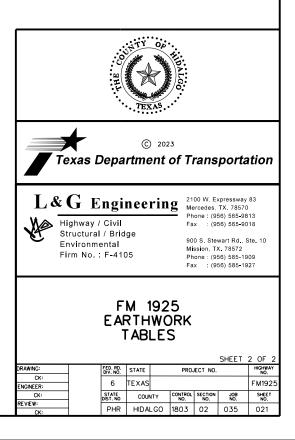


tation	Material Name		Volumes	Volumes .) (cu. yd.)	Factor	Ordinate
315+00.00	DIRT					
513.00.00	Excavation	151.2	541	541	1	
	Fill	9.5	51	51	1	44424
316+00.00	DIRT					
	Excavation	140.1	539	539	1	
317+00.00	Fill DIRT	8.4	33	33	1	44930
511-00.00	Excavation	196.2	623	623	1	
	Fill	6.8	28	28	1	45525
318+00.00	DIRT					
	Excavation	249.7	826	826	1	
210,00,00	Fill	5.1	22	22	1	46329
319+00.00	DIRT Excavation	315.8	1047	1047	1	
	Fill	2.9	15	15	1	47361
320+00.00	DIRT					
	Excavation	303.4	1147	1147	1	
321+00.00	Fill DIRT	1.5	8	8	1	48500
321+00.00	Excavation	334.1	1181	1181	1	
	Fill	0	3	3	1	49678
322+00.00	DIRT	-	-		-	
	Excavation	353	1272	1272	1	
222100.00	Fill	0	0	0	1	50950
323+00.00	DIRT Excavation	332.8	1270	1270	1	
	Fill	0	0	0	1	52220
324+00.00	DIRT		-		-	
	Excavation	299.5	1171	1171	1	
225+00-00	Fill	0	0	0	1	53391
325+00.00	DIRT Excavation	263	1042	1042	1	
	Fill	203	0	0	1	54433
326+00.00	DIRT		-		-	
	Excavation	245.4	941	941	1	
227,00.00	Fill	0	0	0	1	55374
327+00.00	DIRT Excavation	211.6	846	846	1	
	Fill	1.1	2	2	1	56218
328+00.00	DIRT	-	-		-	
	Excavation	216.9	794	794	1	
220100.00	Fill	4.4	10	10	1	57002
329+00.00	DIRT Excavation	184.3	743	743	1	
	Fill	7.1	21	21	1	57724
330+00.00	DIRT					
	Excavation	162.9	643	643	1	<b>F O -</b> -
221,00.00	Fill	8.6	29	29	1	58338
331+00.00	DIRT Excavation	151.8	583	583	1	
	Fill	8.6	32	32	1	58889
332+00.00	DIRT					
	Excavation	125.4	513	513	1	
222100 00	Fill	0	16	16	1	59386
333+00.00	DIRT Excavation	92.5	404	404	1	
	Fill	92.5 0	404	404	1	59790
334+00.00	DIRT	-				
	Excavation	49.6	263	263	1	
225+00 00	Fill DIRT	1.3	2	2	1	60051
335+00.00	DIR I Excavation	19.6	128	128	1	
	Fill	19.0	22	22	1	60157
336+00.00	DIRT					,
	Excavation	6.7	49	49	1	
227+00 00	Fill	30.5	76	76	1	60130
337+00.00	DIRT Excavation	9.2	29	29	1	
	Fill	51.7	152	152	1	60007
338+00.00	DIRT		_		-	
	Excavation	14.4	44	44	1	_
220.00.00	Fill	30.3	152	152	1	59899
339+00.00	DIRT Excavation	18.2	60	60	1	
	Fill	10.7	76	76	1	59883
340+00.00	DIRT		-			
	Excavation	33.8	96	96	1	
241,00.00	Fill	6.3	31	31	1	59948
341+00.00	DIRT Excavation	43.1	142	142	1	

Station	Material Name		Volume	djusted Adj es Volum .yd.) (cu.	nes Fact	t Mass or Ordinate
342+00.00	DIRT				-	
	Excavation	45.7	/ 164	l 164	1	
	Fill	4.3	3 16	5 16	5 1	60219
343+00.00	DIRT					
	Excavation	42.4	163	3 163	3 1	
	Fill	8.1	. 23	3 23	3 1	60359
		GRAND	SUMMARY 1	TOTALS		
	1	Material		Unadjusted	Adjusted	Mult
	1	Name		Volumes	Volumes	Factor
				(cu. yd.)	(cu. yd.)	
	[	DIRT				
			Excavation	62089	62089	1
			Fill	1730	) 1730	1

GRANI	D SUMMARY <sup>-</sup>	FOTALS			
Material		Unadjusted	Adjusted	Mult	
Name		Volumes (cu. yd.)	Volumes (cu. yd.)	Factor	
DIRT					
	Excavation	62089	62089	1	1
	Fill	1730	1730	1	1

ITEM 110 (EXCAVATION) INCLUDES THE REMOVAL OF EXIST. ACP AND BASE MATERIAL FROM FM 1925 ROADWAY THAT IS IN THE CUT PLAIN OF THE PROPOSED TYPICAL SECTION AND SHAL NOT BE USED AS SALVAGE MATERIAL.





DISTRICT Pharr HIGHWAY FM 1925 COUNTY Hidalgo

		CONTROL SECTI	ON JOB	1803-02	-035		
		PRO	JECT ID	A00111	.487		
		C	OUNTY	Hidal	go	TOTAL EST.	TOTAL FINAL
		HI	GHWAY	FM 19			FINAL
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	100-6002	PREPARING ROW	STA	82.640		82.640	
	104-6009	REMOVING CONC (RIPRAP)	SY	18.000		18.000	
	104-6013	REMOVING CONC (FOUNDATIONS)	SY	33.000		33.000	
	104-6017	REMOVING CONC (DRIVEWAYS)	SY	444.000		444.000	
	104-6022	REMOVING CONC (CURB AND GUTTER)	LF	10.000		10.000	
	110-6001	EXCAVATION (ROADWAY)	CY	62,089.000		62,089.000	
	132-6006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	1,730.000		1,730.000	
	160-6005	FURNISHING AND PLACING TOPSOIL	CY	50.000		50.000	
	164-6028	CELL FBR MLCH SEED(PERM)(URBAN)(CLAY)	AC	7.170		7.170	
	164-6030	CELL FBR MLCH SEED(TEMP)(WARM)	AC	9.080		9.080	
	168-6001	VEGETATIVE WATERING	MG	1,095.000		1,095.000	
	204-6003	SPRINKLING (DUST CONTROL)	MG	661.000		661.000	
	247-6225	FL BS (RDWY DEL)(TY E GR 4)(FNAL POS)	CY	20,621.000		20,621.000	
	260-6011	LIME TRT (EXST MATL) (12")	SY	77,364.000		77,364.000	
	260-6043	LIME (HYD, COM OR QK)(SLURRY)	TON	1,532.000		1,532.000	
	275-6001	CEMENT	TON	696.000		696.000	
	275-6031	CEMENT TREAT (NEW BASE) (10")	SY	76,446.000		76,446.000	
	310-6009	PRIME COAT (MC-30)	GAL	14,284.000		14,284.000	
	316-6005	ASPH (TIER II)	GAL	21,426.000		21,426.000	
	316-6486	AGGR (TY-D GR-4P)(SAC-B)	CY	595.000		595.000	
	354-6041	PLANE ASPH CONC PAV (1.5")	SY	10,780.000		10,780.000	
	354-6051	PLANE ASPH CONC PAV (0" TO 1 1/2")	SY	386.000		386.000	
	400-6006	CUT & RESTORING PAV	SY	364.000		364.000	
	400-6010	STRUCT EXCAV (SPECIAL)	CY	55.000		55.000	
	400-6011	SAND BACKFILL	CY	5,302.000		5,302.000	
	402-6001	TRENCH EXCAVATION PROTECTION	LF	8,074.000		8,074.000	
	416-6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	60.800		60.800	
	432-6002	RIPRAP (CONC)(5 IN)	CY	43.000		43.000	
	464-6003	RC PIPE (CL III)(18 IN)	LF	40.000		40.000	
	464-6008	RC PIPE (CL III)(36 IN)	LF	120.000		120.000	
	464-6038	RC PIPE (CL III)(18 IN)(SPL)	LF	1,601.000		1,601.000	
	464-6039	RC PIPE (CL III)(24 IN)(SPL)	LF	574.000		574.000	
	464-6040	RC PIPE (CL III)(30 IN)(SPL)	LF	1,828.000		1,828.000	
	464-6041	RC PIPE (CL III)(36 IN)(SPL)	LF	1,705.000		1,705.000	
	464-6042	RC PIPE (CL III)(42 IN)(SPL)	LF	1,273.000		1,273.000	
	464-6043	RC PIPE (CL III)(48 IN)(SPL)	LF	785.000		785.000	
	464-6044	RC PIPE (CL III)(54 IN)(SPL)	LF	532.000		532.000	



DISTRICT	COUNTY	CCSJ	SHEET
Pharr	Hidalgo	1803-02-035	22



DISTRICT Pharr HIGHWAY FM 1925 COUNTY Hidalgo

		CONTROL SECTIO	ON JOB	1803-02	2-035		
		PROJ	ECT ID	A00111487 Hidalgo			TOTAL FINAL
		C	OUNTY			TOTAL EST.	
		HIG		FM 19	-	-	
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	465-6006	JCTBOX(COMPL)(PJB)(4FTX4FT)	EA	1.000		1.000	
	465-6014	INLET (COMPL)(PCO)(3FT)(LEFT)	EA	1.000		1.000	
	465-6018	INLET (COMPL)(PCO)(4FT)(LEFT)	EA	1.000		1.000	
	465-6030	INLET (COMPL)(PCU)(3FT)(LEFT)	EA	6.000		6.000	
	465-6031	INLET (COMPL)(PCU)(3FT)(RIGHT)	EA	10.000		10.000	
	465-6032	INLET (COMPL)(PCU)(3FT)(BOTH)	EA	5.000		5.000	
	465-6034	INLET (COMPL)(PCU)(4FT)(LEFT)	EA	5.000		5.000	
	465-6035	INLET (COMPL)(PCU)(4FT)(RIGHT)	EA	3.000		3.000	
	465-6036	INLET (COMPL)(PCU)(4FT)(BOTH)	EA	3.000		3.000	
	465-6038	INLET (COMPL)(PCU)(5FT)(LEFT)	EA	2.000		2.000	
	465-6039	INLET (COMPL)(PCU)(5FT)(RIGHT)	EA	2.000		2.000	
	465-6040	INLET (COMPL)(PCU)(5FT)(BOTH)	EA	1.000		1.000	
	465-6042	INLET (COMPL)(PCU)(6FT)(LEFT)	EA	2.000		2.000	
	465-6043	INLET (COMPL)(PCU)(6FT)(RIGHT)	EA	2.000		2.000	
	465-6044	INLET (COMPL)(PCU)(6FT)(BOTH)	EA	1.000		1.000	
	465-6071	INLET (COMPL)(PSL)(RC)(4FTX4FT)	EA	2.000		2.000	
	465-6076	INLET (COMPL)(PSL)(RC)(6FTX6FT)	EA	3.000		3.000	
	465-6149	INLET (COMPL)(PAZD)(SL)(3FTX3FT)	EA	1.000		1.000	
	467-6363	SET (TY II) (18 IN) (RCP) (6: 1) (P)	EA	2.000		2.000	
	496-6002	REMOV STR (INLET)	EA	4.000		4.000	
	496-6004	REMOV STR (SET)	EA	22.000		22.000	
	496-6007	REMOV STR (PIPE)	LF	824.000		824.000	
	496-6016	REMOV STR (PIPE)	EA	1.000		1.000	
	496-6051	REMOV STR (PIPE GATE)	LF	123.000		123.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	17.000		17.000	
	506-6002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	35.000		35.000	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	35.000		35.000	
	506-6021	CONSTRUCTION EXITS (INSTALL) (TY 2)	SY	546.000		546.000	
	506-6024	CONSTRUCTION EXITS (REMOVE)	SY	546.000		546.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	345.000		345.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	345.000		345.000	
	506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF	20.000		20.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF	730.000		730.000	
	506-6045	BIODEG EROSN CONT LOGS (INSTL) (6")	LF	710.000		710.000	
	508-6001	CONSTRUCTING DETOURS	SY	2,317.000		2,317.000	
	512-6005	PORT CTB (FUR & INST)(F-SHAPE)(TY 1)	LF	4,923.000		4,923.000	



DISTRICT	COUNTY	CCSJ	SHEET
Pharr	Hidalgo	1803-02-035	23



DISTRICT Pharr HIGHWAY FM 1925 **COUNTY** Hidalgo

		CONTROL SECTIO	ON JOB	1803-02	-035		
		PROJ	ECT ID	A00111487 Hidalgo			TOTAL FINAL
		C	OUNTY			TOTAL EST.	
		ніс		FM 19	25		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	-	
	512-6053	PORT CTB (REMOVE)(F-SHAPE)(TY 1)	LF	4,923.000		4,923.000	
	529-6028	CONC CURB & GUTTER (TY B) (MOUNTABLE)	LF	13,915.000		13,915.000	
	529-6031	CONC CURB & GUTTER(VALLEY GUTTER)(48")	LF	765.000		765.000	
	530-6002	INTERSECTIONS (ACP)	SY	2,284.000		2,284.000	
	530-6004	DRIVEWAYS (CONC)	SY	106.000		106.000	
	530-6005	DRIVEWAYS (ACP)	SY	476.000		476.000	
	531-6004	CURB RAMPS (TY 1)	EA	1.000		1.000	
	531-6005	CURB RAMPS (TY 2)	EA	2.000		2.000	
	545-6005	CRASH CUSH ATTEN (REMOVE)	EA	10.000		10.000	
	545-6019	CRASH CUSH ATTEN (INSTL)(S)(N)(TL3)	EA	10.000		10.000	
	560-6007	MAILBOX INSTALL-S (WC-POST) TY 3	EA	1.000		1.000	
	618-6016	CONDT (PVC) (SCH 40) (1")	LF	65.000		65.000	
	618-6023	CONDT (PVC) (SCH 40) (2")	LF	935.000		935.000	
	618-6024	CONDT (PVC) (SCH 40) (2") (BORE)	LF	130.000		130.000	
	618-6029	CONDT (PVC) (SCH 40) (3")	LF	75.000		75.000	
	618-6033	CONDT (PVC) (SCH 40) (4")	LF	60.000		60.000	
	618-6034	CONDT (PVC) (SCH 40) (4") (BORE)	LF	145.000		145.000	
	620-6007	ELEC CONDR (NO.8) BARE	LF	285.000		285.000	
	620-6009	ELEC CONDR (NO.6) BARE	LF	55.000		55.000	
	620-6010	ELEC CONDR (NO.6) INSULATED	LF	110.000		110.000	
	621-6005	TRAY CABLE (4 CONDR) (12 AWG)	LF	335.000		335.000	
	624-6002	GROUND BOX TY A (122311)W/APRON	EA	8.000		8.000	
	624-6008	GROUND BOX TY C (162911)W/APRON	EA	3.000		3.000	
	625-6003	ZINC-COAT STL WIRE STRAND (3/8")	LF	1,100.000		1,100.000	
	628-6119	ELC SRV TY D 120/240 060(NS)AL(E)TS(O)	EA	1.000		1.000	
	636-6001	ALUMINUM SIGNS (TY A)	SF	214.000		214.000	
	644-6027	IN SM RD SN SUP&AM TYS80(1)SA(P)	EA	12.000		12.000	
	644-6030	IN SM RD SN SUP&AM TYS80(1)SA(T)	EA	10.000		10.000	
	644-6076	REMOVE SM RD SN SUP&AM	EA	21.000		21.000	
	662-6008	WK ZN PAV MRK NON-REMOV (W)6"(SLD)	LF	33,981.000		33,981.000	
	662-6012	WK ZN PAV MRK NON-REMOV (W)8"(SLD)	LF	200.000		200.000	
	662-6016	WK ZN PAV MRK NON-REMOV (W)24"(SLD)	LF	76.000		76.000	
	662-6017	WK ZN PAV MRK NON-REMOV (W)(ARROW)	EA	2.000		2.000	
	662-6037	WK ZN PAV MRK NON-REMOV (Y)6"(SLD)	LF	37,684.000		37,684.000	
	662-6050	WK ZN PAV MRK REMOV (REFL) TY II-A-A	EA	943.000		943.000	
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	1,193.000		1,193.000	
	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	2,004.000		2,004.000	



DISTRICT	COUNTY	CCSJ	SHEET
Pharr	Hidalgo	1803-02-035	24



DISTRICT Pharr HIGHWAY FM 1925 COUNTY Hidalgo

		CONTROL SECTION	ON JOB	1803-02	2-035		
		PROJ	ECT ID				TOTAL FINAL
		c	OUNTY			TOTAL EST.	
ALT		HIGH		FM 19	925		
	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	-	
	666-6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	207.000		207.000	
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	620.000		620.000	
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	430.000		430.000	
	666-6054	REFL PAV MRK TY I (W)(ARROW)(100MIL)	EA	4.000		4.000	
	666-6078	REFL PAV MRK TY I (W)(WORD)(100MIL)	EA	2.000		2.000	
	666-6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	3,710.000		3,710.000	
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	19,140.000		19,140.000	
	666-6318	RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL)	LF	3,205.000		3,205.000	
	666-6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	22,280.000		22,280.000	
	672-6007	REFL PAV MRKR TY I-C	EA	218.000		218.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	606.000		606.000	
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	34,216.000		34,216.000	
	677-6002	ELIM EXT PAV MRK & MRKS (6")	LF	1,800.000		1,800.000	
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	26.000		26.000	
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2.000		2.000	
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	1.000		1.000	
	680-6002	INSTALL HWY TRF SIG (ISOLATED)	EA	1.000		1.000	
	680-6004	REMOVING TRAFFIC SIGNALS	EA	1.000		1.000	
	681-6001	TEMP TRAF SIGNALS	EA	1.000		1.000	
	682-6001	VEH SIG SEC (12")LED(GRN)	EA	6.000		6.000	
	682-6002	VEH SIG SEC (12")LED(GRN ARW)	EA	1.000		1.000	
	682-6003	VEH SIG SEC (12")LED(YEL)	EA	6.000		6.000	
	682-6004	VEH SIG SEC (12")LED(YEL ARW)	EA	2.000		2.000	
	682-6005	VEH SIG SEC (12")LED(RED)	EA	6.000		6.000	
	682-6006	VEH SIG SEC (12")LED(RED ARW)	EA	1.000		1.000	
	682-6018	PED SIG SEC (LED)(COUNTDOWN)	EA	4.000		4.000	
	682-6054	BACKPLATE W/REF BRDR(3 SEC)(VENT)ALUM	EA	6.000		6.000	
	682-6055	BACKPLATE W/REF BRDR(4 SEC)(VENT)ALUM	EA	1.000		1.000	
	684-6008	TRF SIG CBL (TY A)(12 AWG)(3 CONDR)	LF	420.000		420.000	
	684-6010	TRF SIG CBL (TY A)(12 AWG)(5 CONDR)	LF	975.000		975.000	
	684-6012	TRF SIG CBL (TY A)(12 AWG)(7 CONDR)	LF	220.000		220.000	
	684-6027	TRF SIG CBL (TY A)(14 AWG)(1 CONDR)	LF	130.000		130.000	
	684-6080	TRF SIG CBL (TY C)(14 AWG)(2 CONDR)	LF	1,665.000		1,665.000	
	686-6019	INS TRF SIG PL AM (S)STR(TY D)	EA	2.000		2.000	
	686-6020	INS TRF SIG PL AM (S)STR(TY D)LUM	EA	2.000		2.000	
	687-6001	PED POLE ASSEMBLY	EA	1.000		1.000	
	688-6001	PED DETECT PUSH BUTTON (APS)	EA	4.000		4.000	



DISTRICT	COUNTY	CCSJ	SHEET
Pharr	Hidalgo	1803-02-035	24A



DISTRICT Pharr HIGHWAY FM 1925 COUNTY Hidalgo

						i	
	CONTROL SECTION JOB PROJECT ID		1803-0	2-035			
			A0011	1487			
		co	DUNTY	Hida	lgo	TOTAL EST.	TOTAL FINAL
		HIG	HWAY	FM 1	925		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	688-6003	PED DETECTOR CONTROLLER UNIT	EA	1.000		1.000	
	688-6004	VEH LP DETECT (SAWCUT)	LF	1,270.000		1,270.000	
	1007-6005	IRRIGATION WELL (30")	EA	2.000		2.000	
	1007-6006	IRRIGATION GATE (24")	EA	1.000		1.000	
	1008-6001	PRSSR IRRIG PVC PIPE (18")	LF	4.000		4.000	
	1008-6002	PRSSR IRRIG PVC PIPE (24")	LF	140.000		140.000	
	3077-6065	SP MIXES SP-D SAC-A PG76-22	TON	13,150.000		13,150.000	
	3084-6001	BONDING COURSE	GAL	4,999.000		4,999.000	
	6185-6002	TMA (STATIONARY)	DAY	24.000		24.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000		1.000	



DISTRICT	COUNTY	CCSJ	SHEET
Pharr	Hidalgo	1803-02-035	24B

## GENERAL NOTES AND SPECIFICATIONS DATA:

USE A POWER-BROOM WHEN CLEANING THE ROADWAY AS NEEDED.

REMOVE & DISPOSE ALL MATERIAL NOT DEEMED SALVAGEABLE BY THE ENGINEER, UNLESS OTHERWISE SHOWN ON THE PLANS.

ON EXISTING PAVEMENT THAT WILL REMAIN IN PLACE, SAND BLAST OR SURFACE TREAT IN ORDER TO REMOVE EXISTING STRIPING.

DO NOT BLOCK DRAINAGE WHEN HANDLING & STOCKPILING EXCAVATED MATERIAL.

MAINTAIN ACCESS TO DRIVEWAYS AND INTERSECTIONS THROUGH ALL PHASES OF CONSTRUCTION.

MAINTAIN POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION.

ALWAYS COMPLETE THE PROPOSED DRIVEWAYS DURING THEIR TCP PHASE BEFORE SWITCHING TRAFFIC TO A NEW PHASE UNLESS DIRECTED BY THE ENGINEER.

## TRAFFIC CONTROL DEVICES:

AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION, AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.

NOTIFY THE AREA ENGINEER(AE) IN WRITING(E-MAIL IS ACCEPTABLE) ONCE THE TRAFFIC CONTROL PLAN(TCP) AND ALL TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED AS PER PLANS ON THE PROJECT SO THAT THE DEPARTMENT'S RESPONSIBLE PERSON ACCOMPANIED BY THE CONTRACTOR'S RESPONSIBLE PERSON CAN CONDUCT A NIGHT INSPECTION ON THE SAID TCP AND TRAFFIC CONTROL DEVICES. COMMENCEMENT OF WORK WILL NOT BE AUTHORIZED NOR ALLOWED UNTIL THE AE NOTIFIES THE CONTRACTOR IN WRITING(E-MAIL IS ACCEPTABLE) TO PROCEED WITH THE WORK.

CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF TRAFFIC CONTROL DEVICES IN ACCEPTABLE CONDITION TO REPLACE ANY DAMAGED TRAFFIC CONTROL DEVICE WITHIN 24 HOURS OF NOTIFICATION.

PROVIDE ADDITIONAL SIGNS AND BARRICADES AS NECESSARY TO ADDRESS FIELD CONSTRUCTIBILITY & VISIBILITY. THESE ADDITIONAL SIGNS WILL BE CONSIDERED SUBSIDIARY TO ITEM 502.

REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.

ADJUST STOP SIGNS AS NEEDED ON INTERSECTING STREETS DURING THE VARIOUS CONSTRUCTION PHASES. DO NOT REMOVE ANY EXISTING STOP SIGNS UNTIL TEMPORARY SIGNS ARE IN PLACE.

COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE, TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC.

NOTIFY THE ENGINEER IN WRITING WHEN MAJOR TRAFFIC CHANGES ARE TO BE MADE. NOTIFICATIONS MUST BE GIVEN A MINIMUM OF THREE WORKING DAYS PRIOR TO THE CHANGE.

ALL WORK ZONE PAVEMENT MARKINGS FOR THIS PROJECT SHALL BE 0.100 INCHES (100 MIL) THICK THERMOPLASTIC.

## SAFETY:

PROTECT EXPOSED PITS THAT MUST REMAIN OPEN DURING NON-WORKING HOURS AS PER OSHA REQUIREMENTS.

## **PROJECT SPECIFIC NOTES:**

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF ITEM 7, "LEGAL RELATIONS AND RESPONSIBILITIES" OF THE STANDARD SPECIFICATIONS

IRRIGATION AND DRAINAGE STRUCTURES SHALL BE CONSTRUCTED ONCE COORDINATION BETWEEN THE CONTRACTOR, IRRIGATION DISTRICT & DRAINAGE DISTRICT HAS BEEN COMPLETED. CONTRACTOR SHALL THEN NOTIFY THE IRRIGATION / DRAINAGE DISTRICT(S) TWO (2) WEEKS PRIOR TO CONSTRUCTION OF THE STRUCTURES.

THE PORTION OF THE PROJECT WHICH COINCIDES WITH EXISTING ROADS AND/OR PRIVATE DRIVES SHALL BE KEPT OPEN TO TRAFFIC AT ALL TIMES UNLESS OTHERWISE PROVIDED FOR OR APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY TXDOT AND COUNTY OFFICIALS A MINIMUM OF THREE (3) DAYS PRIOR TO CLOSING ANY ROADWAYS AND/OR TURNOUTS.

THE CONTRACTOR SHALL USE THE NECESSARY TCP STANDARDS FOR INSTALLATION OF THE IRRIGATION CROSSING IN CONJUNCTION WITH THE CUT & RESTORE WORK PER PHASE OF CONSTRUCTION.

CONSTRUCT DETOUR AND ADJUST/RELOCATE EXISTING SIDE DRAINS AS NECESSARY TO MAINTAIN PROPER DRAINAGE. ADJUSTMENT/RELOCATION OF EXISTING SIDE DRAINS SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 508 "CONSTRUCTING DETOURS.'

ALL STORM DRAIN LATERALS SHALL BE PLUGGED TEMPORARILY DURING CONSTRUCTION WHEN CONSTRUCTED HALF AT A TIME.

WHEN CONNECTING PROPOSED ROADWAY AND/OR DETOURS TO SECTIONS OF EXISTING PAVEMENT BEING USED BY TRAFFIC AND SUCH OPERATIONS RESULT IN A DROPOOFF OF MORE THAN TWO (2) INCHES, A FOUR (4) FOOT BUFFER ZONE OR 3:1 SLOPE WILL BE REQUIRED. THE SLOPE MUST BE CONSTRUCTED WITH A COMPACTED MATERIAL CAPABLE OF SUPPORTING VEHICLES, AS APPROVED BY THE ENGINEER. THIS WORK SHALL BE DONE EXPEDITIOUSLY DURING DAYLIGHT HOURS.

INTERSECTIONS SHALL BE CONSTRUCTED ONE AT A TIMEI AND RE-OPENED TO TRAFFIC WHEN CONSTRUCTION OF INTERSECTING ROADWAY IS COMPLETED.

THE CONTRACTOR WILL NOT BE ALLOWED TO PARK EQUIPMENT WITHIN IRRIGATION DISTRICT ROW AS TO AVOID DAMAGE TO EXISTING IRRIGATION LINES / STRUCTURES.

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING THE FINAL PAVEMENT LAYER.





Texas Department of Transportation										
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STATE	FED.RD. DIV.NO.	FEDER	AL AID	PROJECT N	١0.	SH N	EET O.			
TEXAS	6					0	25			
DIST.	COUNTY	CONT.	SECT.	JOB	HIGHW	/AY	NO.			
PHR	HIDALGO	1803	02	035	FМ	192	25			

## PHASE

#### THIS PHASE CONSISTS OF THE CONSTRUCTION OF IRRIGATION CROSSING, TEMPORARY DETOUR

1. INSTALL PROJECT LIMIT AND ADVANCE WARNING SIGNS AND INSTALL CROSSROAD BARRICADES/SIGNS, AS SHOWN ON THE TRAFFIC CONTROL PLANS (TCP), IN ACCORDANCE WITH THE LATEST (TMUTCD) AND/OR AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE ERECTED AND PLACED PRIOR TO COMMENCING ANY PROPOSED ROADWAY CONSTRUCTION AND SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT AND UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE TXDOT ENGINEER

2. THE CONTRACTOR SHALL CONSTRUCT THE IRRIGATION CROSSING (STA. 307+67.61) USING THE NECESSARY TCP STANDARDS IN CONJUNCTION WITH THE CUT & RESTORE WORK.

3. THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY DETOUR FROM STA. 300+94.24 (RT) TO STA. 346+48.47 (RT). AS SHOWN ON THE TCP TYPICAL SECTIONS AND LAYOUTS. TRAFFIC TO REMAIN ON THE EXISTING ROADWAY.

4. INSTALL EROSION CONTROL LOGS, SILT FENCES, AND ANY OTHER REQUIRED STORM WATER POLLUTION PREVENTION (SW3P) STRUCTURES AS SHOWN ON THE SW3P LAYOUTS AND STANDARDS PERTAINING TO PHASE I CONSTRUCTION.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT ALL TIMES DURING CONSTSRUCTION.

#### PHASE II - STEP THIS PHASE CONSISTS OF THE CONSTRUCTION OF NORTH HALF OF ROADWAY, STORM DRAIN TRUNKLINE & LATERALS

1. ELIMINATE EXISTING ROADWAY STRIPING, AS REQUIRED, AND RESTRIPE AND UTILIZE EXISTING FM 1925 FOR TWO 11' LANES OF TRAFFIC AS SHOWN ON THE TCP LAYOUTS AND TYPICAL SECTIONS.

2. ADJUST THE EXISTING TRAFFIC SIGNAL AT INTERSECTION OF BRUSHLINE ROAD AS SHOWN ON TEMPORARY TRAFFIC SIGNAL LAYOUT PHASE II. PROVIDE APPROPRIATE TRAFFIC CONTROL DEVICES AND SIGNING AS REQUIRED.

3. SWITCH, INSTALL, AND REMOVE ANY NECESSARY SIGNS, BARRICADES, CHANNELIZING DEVICES AND WORK ZONE PAVEMENT MARKINGS FOR THIS PHASE OF THE TCP.

4. THE CONTRACTOR SHALL INSTALL CONCRETE SAFETY BARRIER FROM STA. 273+78.45 TO STA. 328+61.57 AS SHOWN ON THE TCP LAYOUTS

5. INSTALL EROSION CONTROL LOGS, SILT FENCES, AND ANY OTHER REQUIRED STORM WATER POLLUTION PREVENTION (SW3P) STRUCTURES AS SHOWN ON THE SW3P LAYOUTS AND STANDARDS PERTAINING TO PHASE II CONSTRUCTION.

6. CONTRACTOR TO CONSTRUCT THE NORTH HALF OF THE PROPOSED FM1925 ROADWAY UP TO THE FIRST 1-1/2" COURSE OF ACP INCLUDING ALL APPROPRIATE DRAINAGE APPURTENANCES AS SHOWN ON THE TCP LAYOUTS AND TYPICAL SECTIONS AND AS PER THE CONSTRUCTION DESIGN PLANS, MAINTAINING IN GOOD WORKING ORDER ALL APPROPRIATE TEMPORARY EROSION CONTROL PROTECTION ELEMENTS.

7. THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY DETOUR FROM STA. 336+79.84 (LT) TO STA. 346+42.64 (LT). AS SHOWN ON THE TCP TYPICAL SECTIONS AND LAYOUTS. TRAFFIC TO REMAIN ON THE EXISTING ROADWAY.

8. ROADWAY ACCESS TO ALL INTERSECTING ROADWAYS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION

#### PHASE II - STEP 2 THIS PHASE CONSISTS OF THE CONSTRUCTION OF NORTH HALF OF BURHLINE RD AND SHARP RD INTERSECTIONS

1. THE CONTRACTOR SHALL TEMPORARILY CLOSE THE NORTH HALF OF BRUSHLINE RD AND SHARP RD INTERSECTIONS IN ORDER TO EXPEDITE THE WORK IN THESE LOCATIONS, STARTING WITH BRUSHLINE RD. FIRST AND THEN SHARP RD.

2. PRIOR TO COMMENCING WITH THIS STEP, CONTRACTOR SHALL HAVE ALL TRAFFIC CONTROL DEVICES AND SIGNING AS PER THE PROPOSED TRAFFIC CONTROL PLANS.

3. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS, CHANNELIZING DEVICES, AND BARRICADES, AS PER THE BRUSHLINE RD PHASE II - STEP II TCP LAYOUT AND BRUSHLINE RD DETOUR LAYOUT.

4. ADJUST TRAFFIC SIGNAL HEADS AND ALL APPURTENANCES TO ACCOMMODATE THIS STEP OF THE PHASE IITCP.

5. CONSTRUCT THE NORTH HALF OF THE BRUSHLINE RD INTERSECTION UP TO AND INCLUDING THE FIRST 1-1/2" COURSE OF ACP AS SHOWN ON THE TCP LAYOUTS, TYPICAL SECTIONS, AND CONSTRUCTION DESIGN PLANS.

6. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS, CHANNELIZING DEVICES, AND BARRICADES, AS REQUIRED AND RE-OPEN THE BRUSHLINE RD INTERSECTION PRIOR TO COMMENCING WITH THE SHARP RD INTERSECTION.

7. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS, CHANNELIZING DEVICES, AND BARRICADES, AS PER THE SHARP RD PHASE II - STEP IITCP LAYOUT AND SHARP RD DETOUR LAYOUT.

8. CONSTRUCT THE NORTH HALF OF THE SHARP RD INTERSECTION UP TO AND INCLUDING THE FIRST 1-1/2" COURSE OF ACP AS SHOWN ON THE TCP LAYOUTS, TYPICAL SECTIONS, AND CONSTRUCTION DESIGN PLANS.

9. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS, CHANNELIZING DEVICES, AND BARRICADES, AS REQUIRED AND RE-OPEN THE SHARP RD INTERSECTION PRIOR TO COMMENCING WITH THE NEXT CONSTRUCTION PHASE.

## PHASE III - STEP 1

#### THIS PHASE CONSISTS OF THE CONSTRUCTION OF SOUTH HALF OF ROADWAY AND STORM DRAIN LATERALS

1. INSTALL EROSION CONTROL LOGS, SILT FENCES, AND ANY OTHER REQUIRED STORM WATER POLLUTION PREVENTION (SW3P) STRUCTURES AS SHOWN ON THE SW3P LAYOUTS AND STANDARDS PERTAINING TO PHASE II CONSTRUCTION

2. SWITCH, INSTALL, AND REMOVE ANY NECESSARY SIGNS, BARRICADES, CHANNELIZING DEVICES AND WORK ZONE PAVEMENT MARKINGS FOR THIS PHASE OF THE TCP.

3. STRIPE NEWLY CONSTRUCTED NORTH HALF OF THE FM1925 ROADWAY FOR TWO 11' LANES OF TRAFFIC AS SHOWN ON THE TCP LAYOUTS AND TYPICAL SECTIONS.

4. ADJUST THE TRAFFIC SIGNAL HEADS AT THE BRUSHLINE RD INTERSECTION AS SHOWN ON TEMPORARY TRAFFIC SIGNAL LAYOUT PHASE III.

5. SWITCH, INSTALL, AND REMOVE ANY NECESSARY SIGNS, BARRICADES, CHANNELIZING DEVICES AND WORK ZONE PAVEMENT MARKINGS FOR THIS PHASE OF THE TCP AS SHOWN ON THE TCP LAYOUTS

6. SHIFT THE EXISTING EAST AND WEST BOUND TRAFFIC ONTO THE NEWLY CONSTRUCTED FM 1925 ROADWAY.

7. CONTRACTOR TO CONSTRUCT THE SOUTH HALF OF THE PROPOSED FM1925 ROADWAY UP TO THE FIRST 1-1/2" LIFT OF ACP INCLUDING ALL APPROPRIATE DRAINAGE APPURTENANCES AS SHOWN ON THE TCP LAYOUTS AND TYPICAL SECTIONS AND AS PER THE CONSTRUCTION DESIGN PLANS, MAINTAINING IN GOOD WORKING ORDER ALL APPROPRIATE TEMPORARY EROSION CONTROL PROTECTION ELEMENTS.

8. ROADWAY ACCESS TO ALL INTERSECTING ROADWAYS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

#### PHASE III - STEP THIS PHASE CONSISTS OF THE CONSTRUCTION OF SOUTH HALF OF TERRY RD, TOWER RD, AND SHARP RD INTERSECTIONS

1. THE CONTRACTOR SHALL TEMPORARILY CLOSE THE SOUTH HALF OF TERRY RD, TOWER RD, AND SHARP RD INTERSECTIONS IN ORDER TO EXPEDITE THE WORK IN THESE LOCATIONS, STARTING WITH TERRY RD, THEN TOWER RD, AND THEN SHARP RD.

2. PRIOR TO COMMENCING WITH THIS STEP, CONTRACTOR SHALL HAVE ALL TRAFFIC CONTROL DEVICES AND SIGNING AS PER THE PROPOSED TRAFFIC CONTROL PLANS

3. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS, CHANNELIZING DEVICES AND BARRICADES, AS PER THE TERRY PHASE III - STEP II TCP LAYOUT AND TERRY RD DETOUR LAYOUT.

4. CONSTRUCT THE SOUTH HALF OF THE TERRY RD INTERSECTION UP TO AND INCLUDING THE FIRST 1-1/2" COURSE OF ACP AS SHOWN ON THE TCP LAYOUTS, TYPICAL SECTIONS, AND CONSTRUCTION DESIGN PLANS.

5. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS, CHANNELIZING DEVICES AND BARRICADES, AS REQUIRED AND RE-OPEN THE TERRY RD INTERSECTION PRIOR TO COMMENCING WITH THE TOWER RD INTERSECTION.

6. CONSTRUCT THE SOUTH HALF OF THE TOWER RD INTERSECTION UP TO AND INCLUDING THE FIRST 1-1/2" COURSE OF ACP AS SHOWN ON THE TCP LAYOUTS, TYPICAL SECTIONS, AND CONSTRUCTION DESIGN PLANS.

7. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS, CHANNELIZING DEVICES AND BARRICADES, AS REQUIRED AND RE-OPEN THE TOWER RD INTERSECTION PRIOR TO COMMENCING WITH THE SHARP RD INTERSECTION.

8. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS, CHANNELIZING DEVICES AND BARRICADES, AS PER THE SHARP RD PHASE III - STEP II TCP LAYOUT AND SHARP RD DETOUR LAYOUT.

9. CONSTRUCT THE SOUTH HALF OF THE SHARP RD INTERSECTION UP TO AND INCLUDING THE FIRST 1-1/2" COURSE OF ACP AS SHOWN ON THE TCP LAYOUTS TYPICAL SECTIONS AND CONSTRUCTION DESIGN PLANS.

10. THE CONTRACTOR SHALL SWITCH, INSTALL, AND REMOVE SIGNS AND BARRICADES, AS REQUIRED AND RE-OPEN THE SHARP RD INTERSECTION PRIOR TO COMMENCING WITH THE NEXT CONSTRUCTION PHASE.

## PHASE IV

# THIS PHASE CONSISTS OF THE CONSTRUCTION OF THE FINAL ROADWAY ASPHALT COURSE AND STRIPING

1. SWITCH, INSTALL, AND REMOVE ANY NECESSARY SIGNS, BARRICADES, CHANNELIZING DEVICES AND WORK ZONE PAVEMENT MARKINGS FOR THIS PHASE OF THE TCP.

2. PLACE FINAL 1 1/2 ASPHALT COURSE ON PROPOSED PROJECT ROADWAY USING TCP 2-2-18 AND 2-4-18 AS NEEDED

3. INSTAL GUIDE MARKS AND SHORT TERM MARKINGS

4. INSTALL FINAL STRIPING AND SIGNING.

5. OPEN ROADWAYS TO FULL TRAFFIC AND REMOVE ALL TCP BARRICADES, SIGNS, CHANNELIZING DEVICES, PAVEMENT MARKINGS AND EROSION/ SEDIMENTATION CONTROL DEVICES UPON APPROVAL AND ACCEPTANCE OF THE PROJECT BY THE ENGINEER.





NOTE NOTIFY THE ENGINEER IN WRITING WHEN MAJOR TRAFFIC CHANGES ARE TO BE MADE FOR DETOUR. NOTIFICATIONS MUST BE GIVEN A MINIMUM OF THREE CALENDAR DAYS PRIOR TO THE CHANGE



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Texas Department of Transportation

L&G Engineering Mercedes, TX. 78570

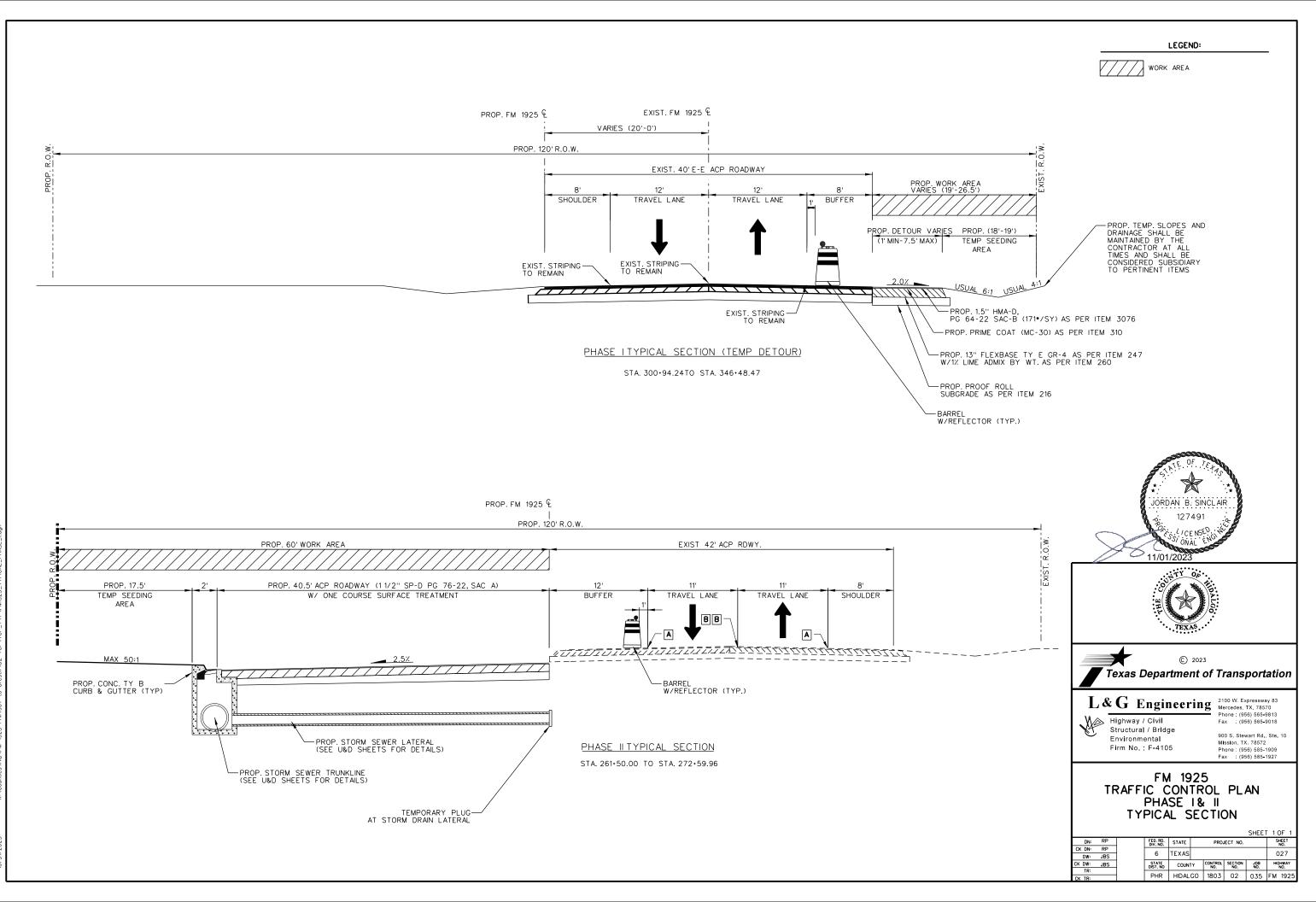
Highway / Civil Structural / Brldge Environmental Firm No. : F-4105

Phone : (956) 565-9813 Fax (956) 565-9018

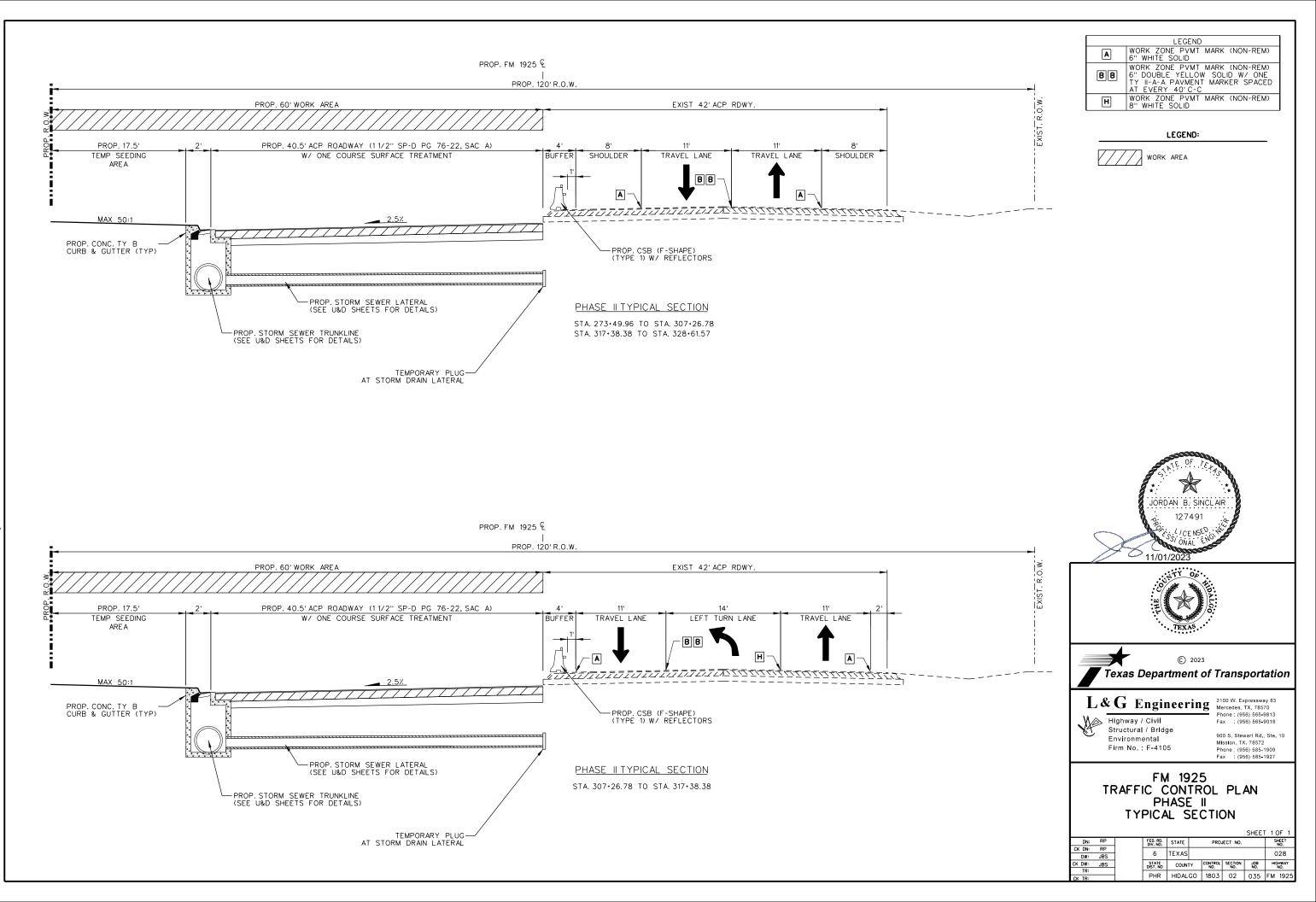
900 S. Stewart Rd., Ste. 10 Mission, TX. 78572 Phone : (956) 585-1909 Fax : (956) 585-1927

## FM 1925 TRAFFIC CONTROL PLAN SEQUENCE OF CONSTRUCTION

							SHEET	1 OF 1
DRAWING:		FED. RD. DIV. NO.	STATE		PROJ	ECT NO.		HIGHWAY NO.
CK: ENGINEER:	-	6	TEXAS					FM1925
СК:	1	STATE DIST. NO	COU	YTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
REVIEW: CK;	-	PHR	HIDA	LGO	1803	02	035	026

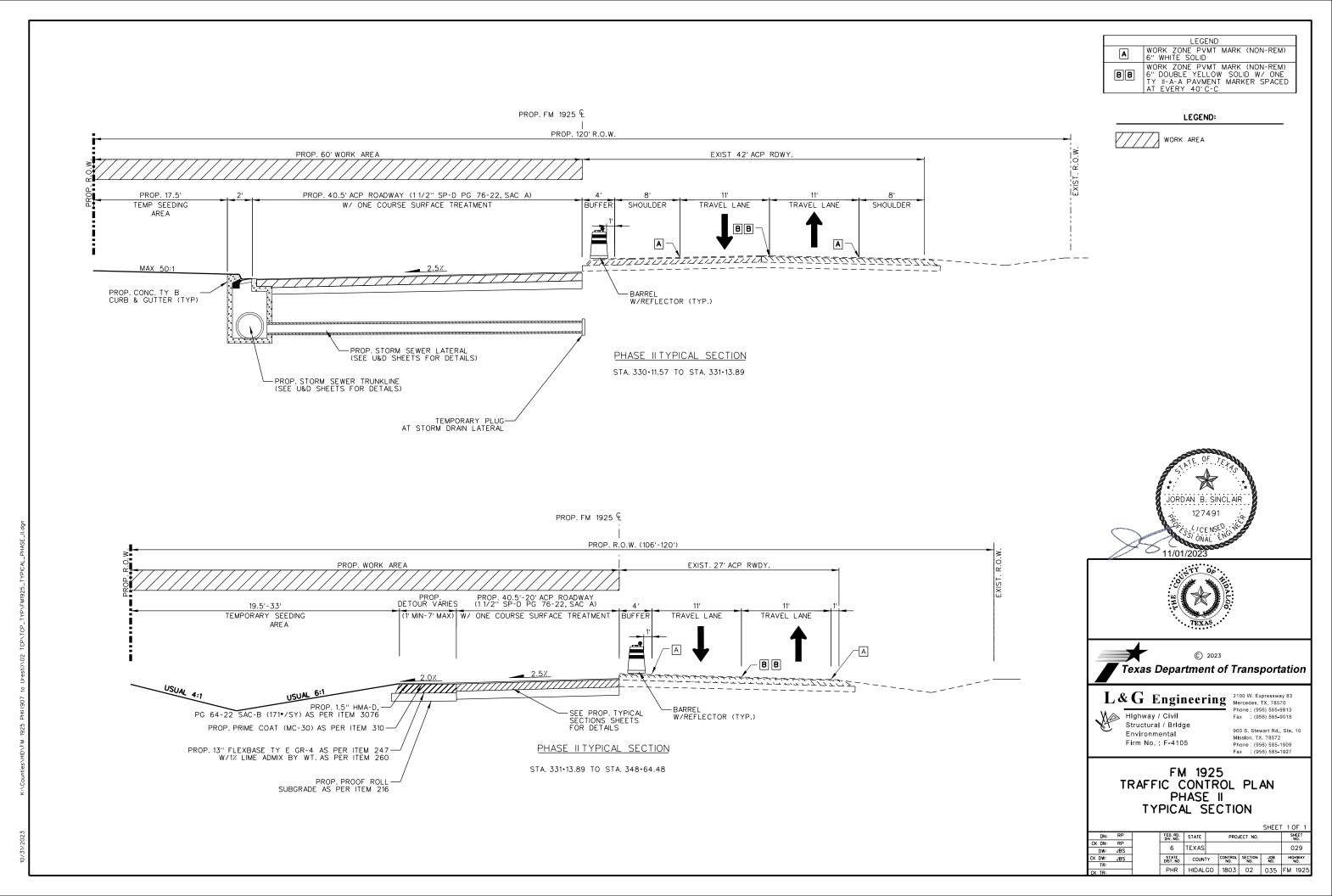


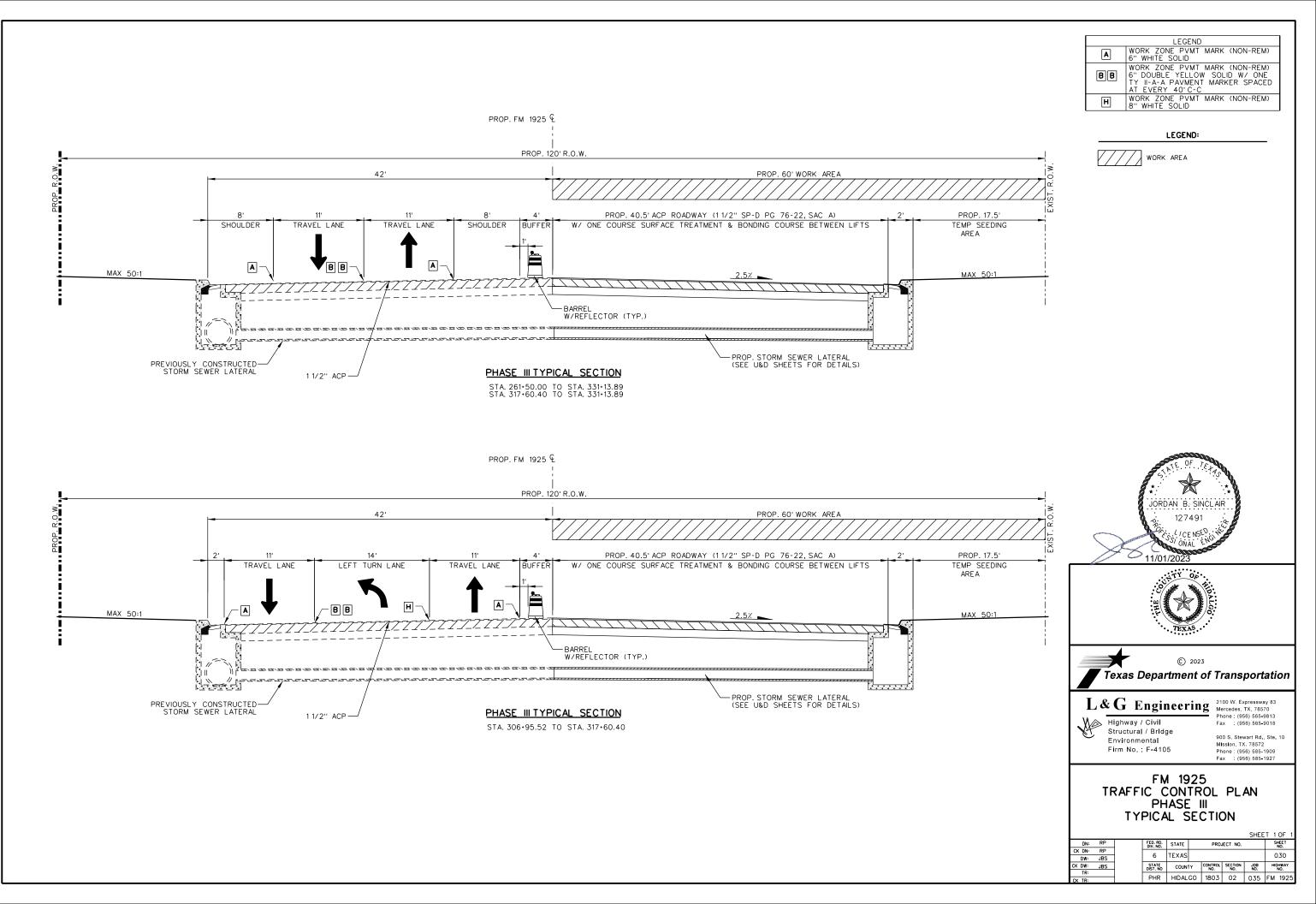
K://Counties/HID/FM 1925 PHI/007 to Treast///02 TCP/TCP TYP/EM1925 TYPICAL PHASE L



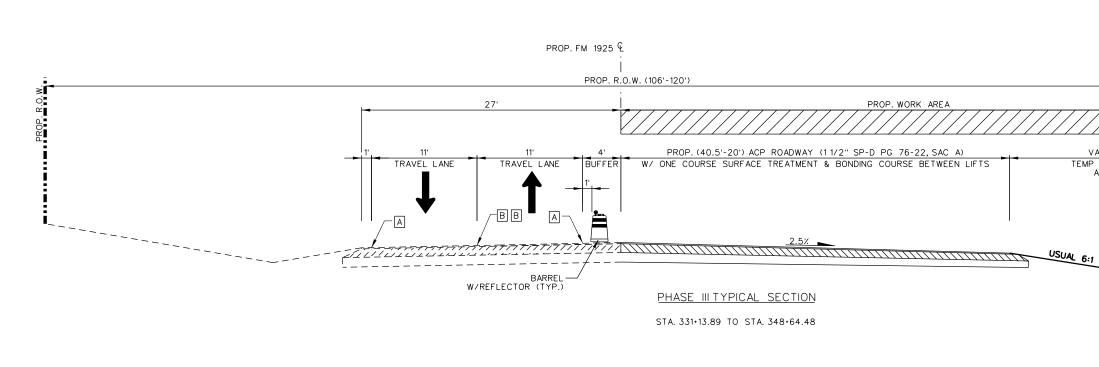
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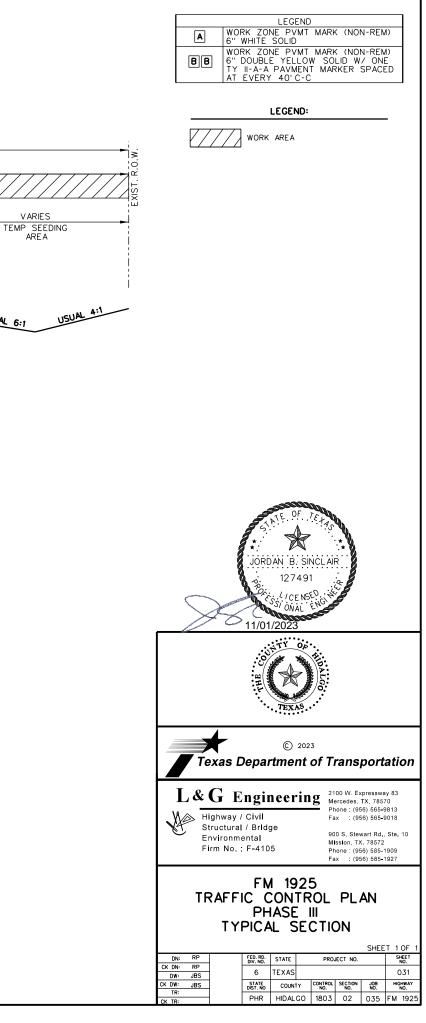
20001210

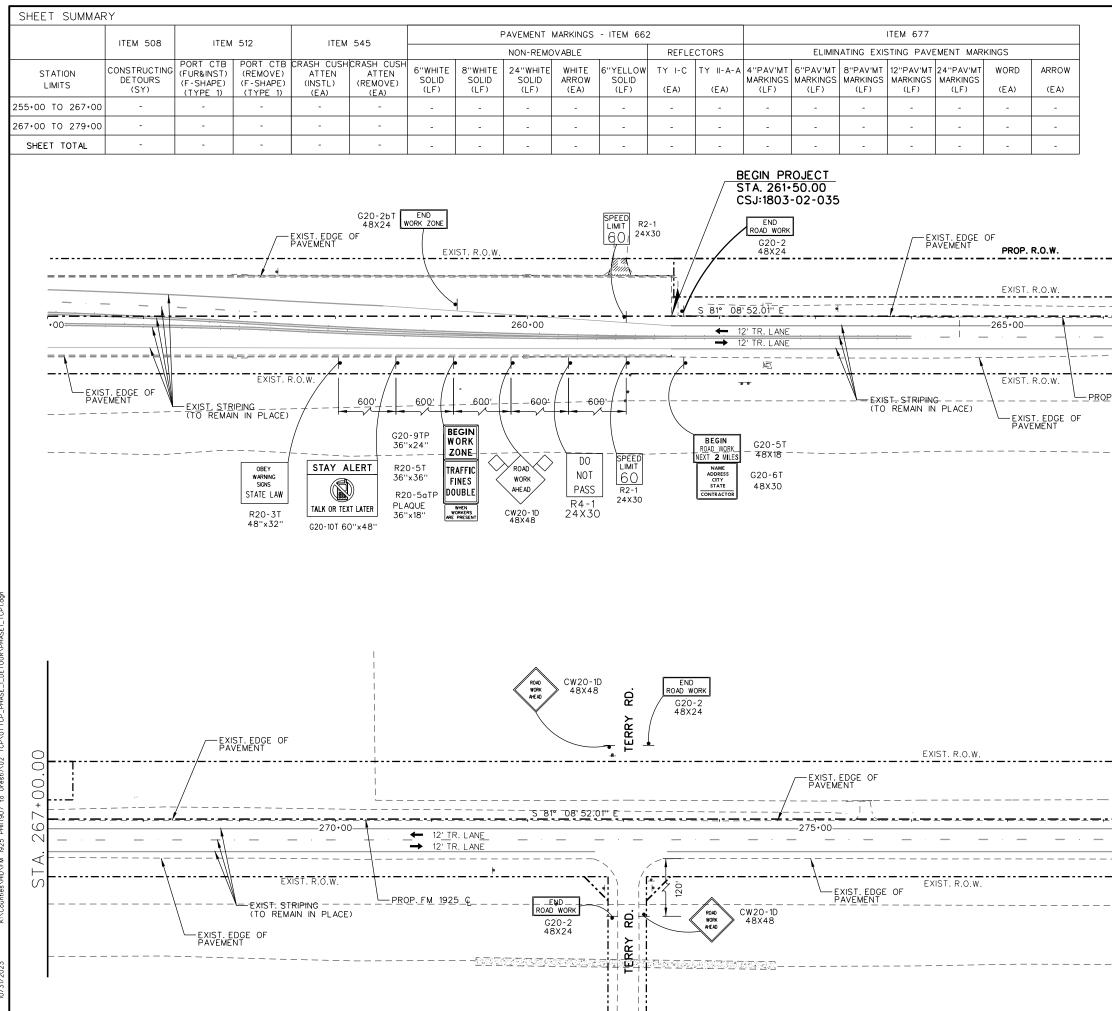




10/31/202





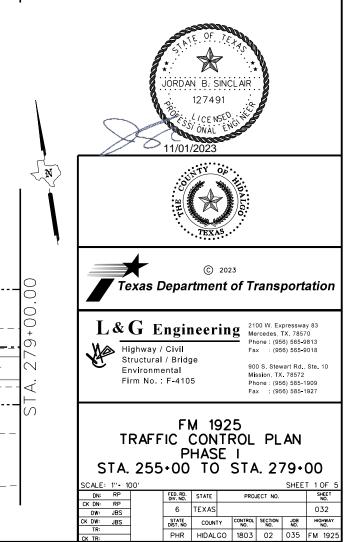


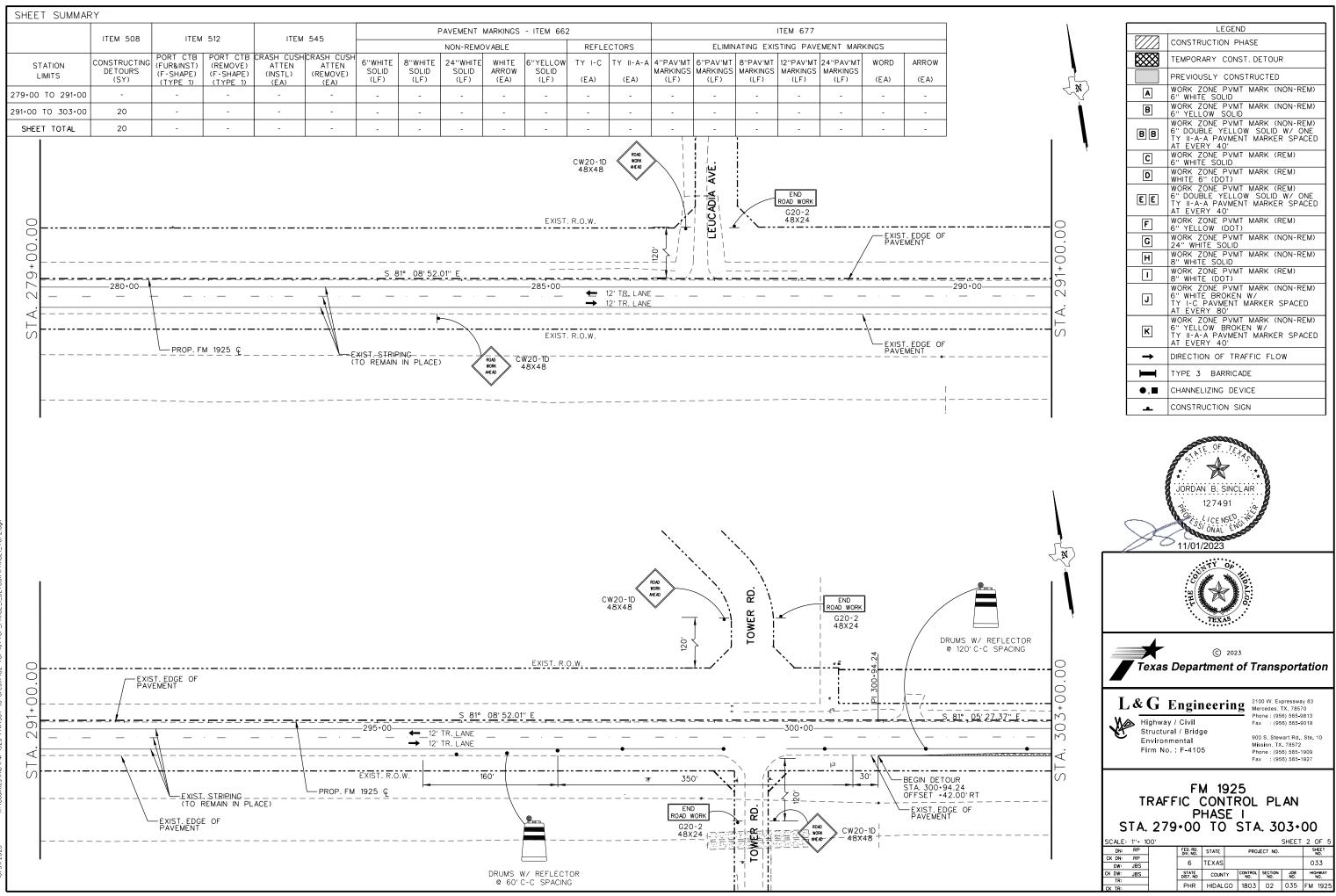
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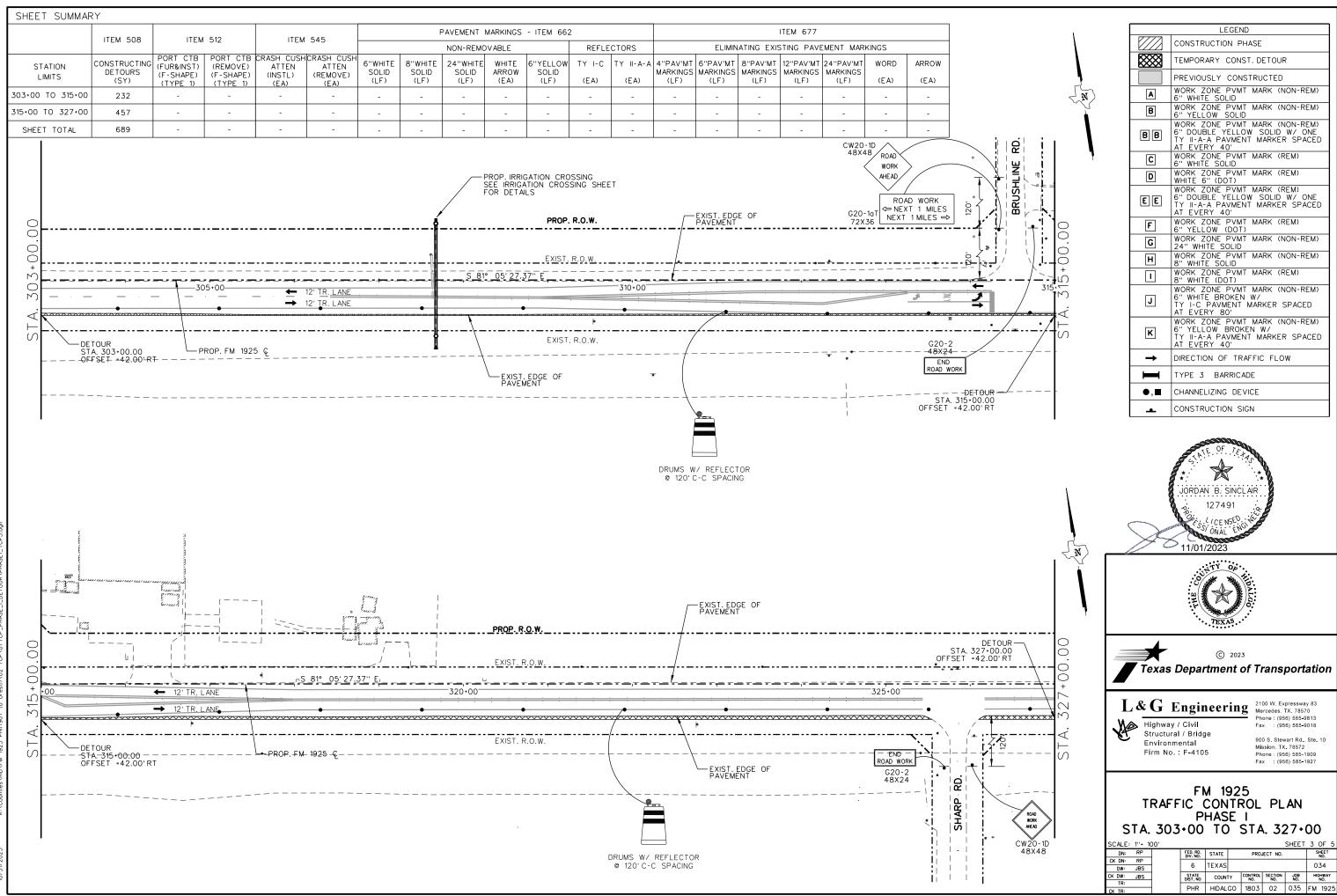
	LEGEND						
	CONSTRUCTION PHASE						
	TEMPORARY CONST. DETOUR						
	PREVIOUSLY CONSTRUCTED						
Α	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID						
В	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW SOLID						
BB	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'						
С	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID						
D	WORK ZONE PVMT MARK (REM) WHITE 6" (DOT)						
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'						
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)						
G	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID						
н	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID						
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)						
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'						
κ	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'						
$\rightarrow$	DIRECTION OF TRAFFIC FLOW						
	TYPE 3 BARRICADE						
●,■	CHANNELIZING DEVICE						
<b>_</b>	CONSTRUCTION SIGN						



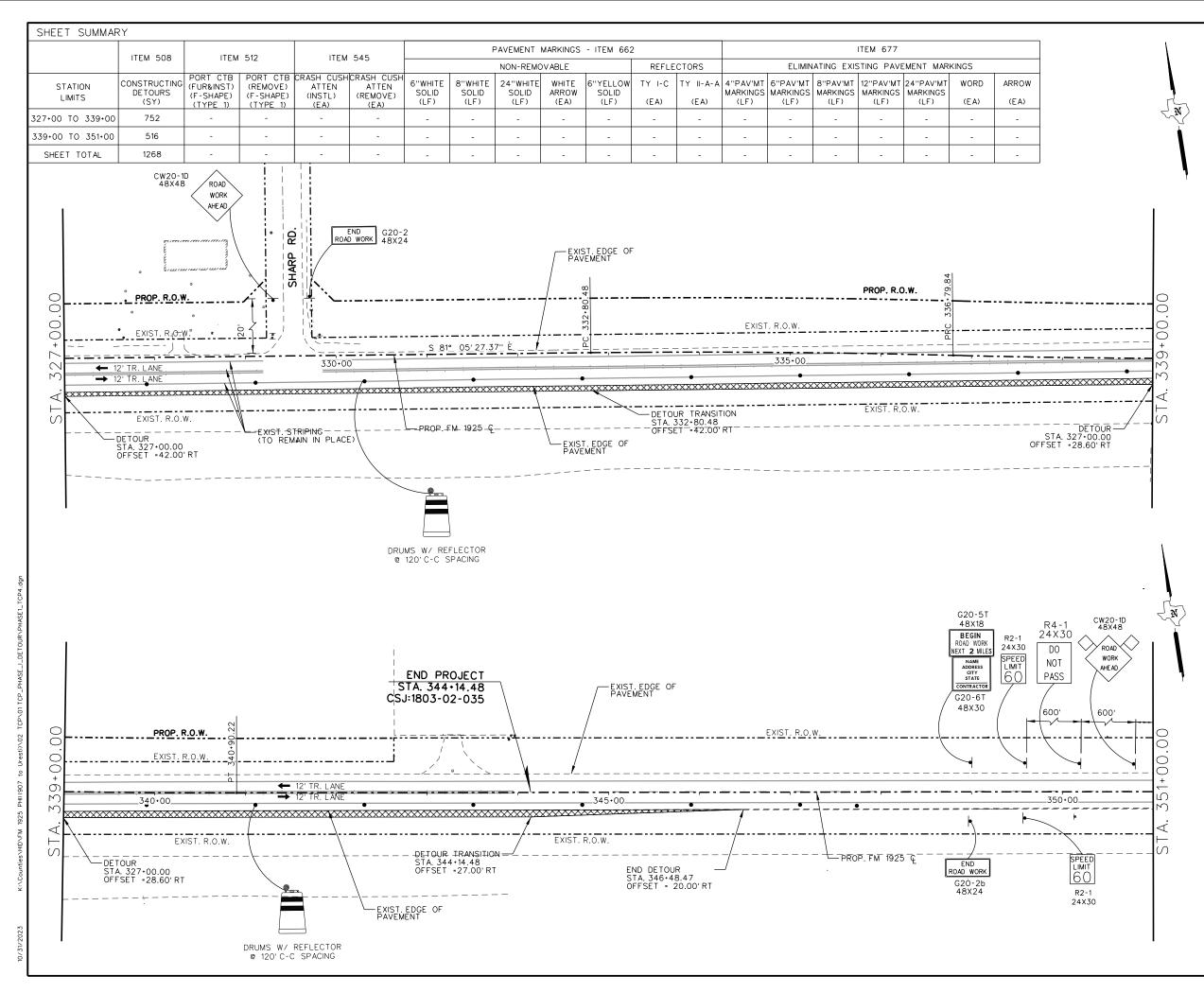


LEGEND								
	CONSTRUCTION PHASE							
$\bigotimes$	TEMPORARY CONST. DETOUR							
	PREVIOUSLY CONSTRUCTED							
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID							
В	WORK ZONE PVMT MARK (NON-REM) 6'' YELLOW SOLID							
88	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'							
C	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID							
D	WORK ZONE PVMT MARK (REM) WHITE 6" (DOT)							
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'							
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)							
G	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID							
I	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID							
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)							
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'							
K	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'							
+	DIRECTION OF TRAFFIC FLOW							
	TYPE 3 BARRICADE							
●,■	CHANNELIZING DEVICE							
-	CONSTRUCTION SIGN							

SCALE:	1''- 10	00'						SHEET	2	OF	5
DN:	RP		FED. RD. DIV. NO.	STATE		PROJECT NO.				SHEET NO.	
CK DN:	RP		6	TEVAC					_	77	
DW:	JBS		6	TEXAS					033		
CK DW:	JBS		STATE DIST. NO	COUNTY		CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO.		ſ
TR:					~ ~	1007		0.75			
CK TR:			PHR	HIDAL	GO	1803	02	035	FΜ	192	25



	LEGEND
	CONSTRUCTION PHASE
	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6'' YELLOW SOLID
BB	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
С	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6'' (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID
I	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
κ	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACED AT EVERY 40"
→	DIRECTION OF TRAFFIC FLOW
I	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
-	CONSTRUCTION SIGN



	LEGEND
	CONSTRUCTION PHASE
$\boxtimes$	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW SOLID
BB	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
С	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6'' (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24'' WHITE SOLID
н	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
К	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A- PAVMENT MARKER SPACED AT EVERY 40'
$\rightarrow$	DIRECTION OF TRAFFIC FLOW
Η	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
<b>.</b>	CONSTRUCTION SIGN





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Texas Department of Transportation

L&G Engineering 2100 W. Expressway 83 Mercedes, TX. 78570 Phone : (956) 565-9813 Highway / Civil Structural / Bridge Environmental

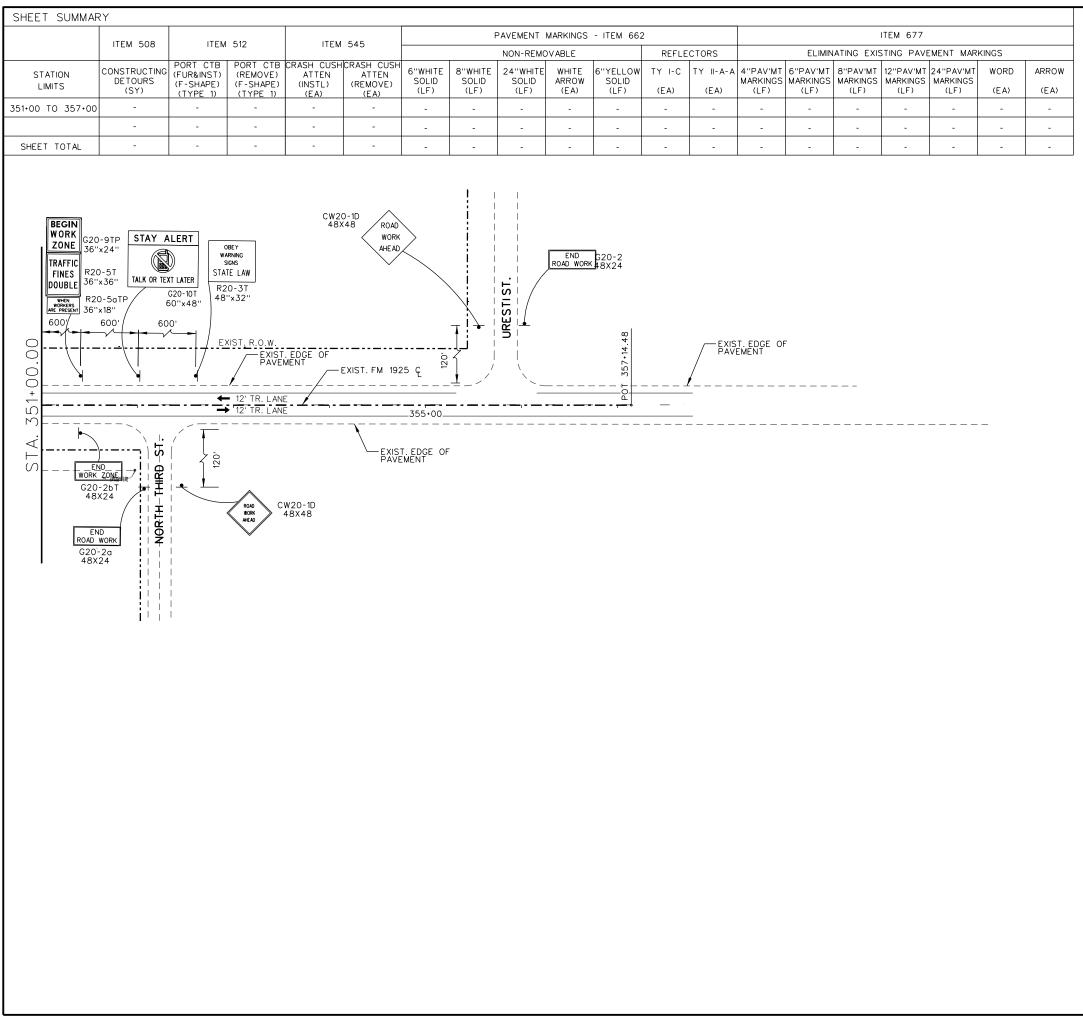
Firm No. : F-4105

Fax (956) 565-9018

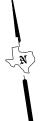
900 S. Stewart Rd., Ste. 10 Mission, TX, 78572 Phone: (956) 585-1909 Fax (956) 585-1927

### FM 1925 TRAFFIC CONTROL PLAN PHASE I STA. 327+00 TO STA. 351+00

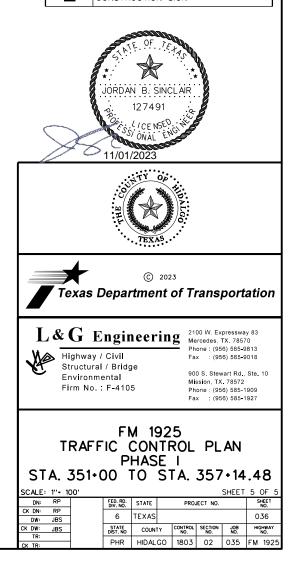
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CK DN:	RP		<u> </u>	TEVAC					_	35
DW:	JBS		6	TEXAS					0	35
CK DW:	JBS		STATE DIST, NO	COUNT	۲۱.	CONTROL NO.	SECTION NO.	JOB NO,		HWAY NO.
TR:					~ ~					
CK TR:			PHR	HIDAL	GO	1803	02	035	FM	1925

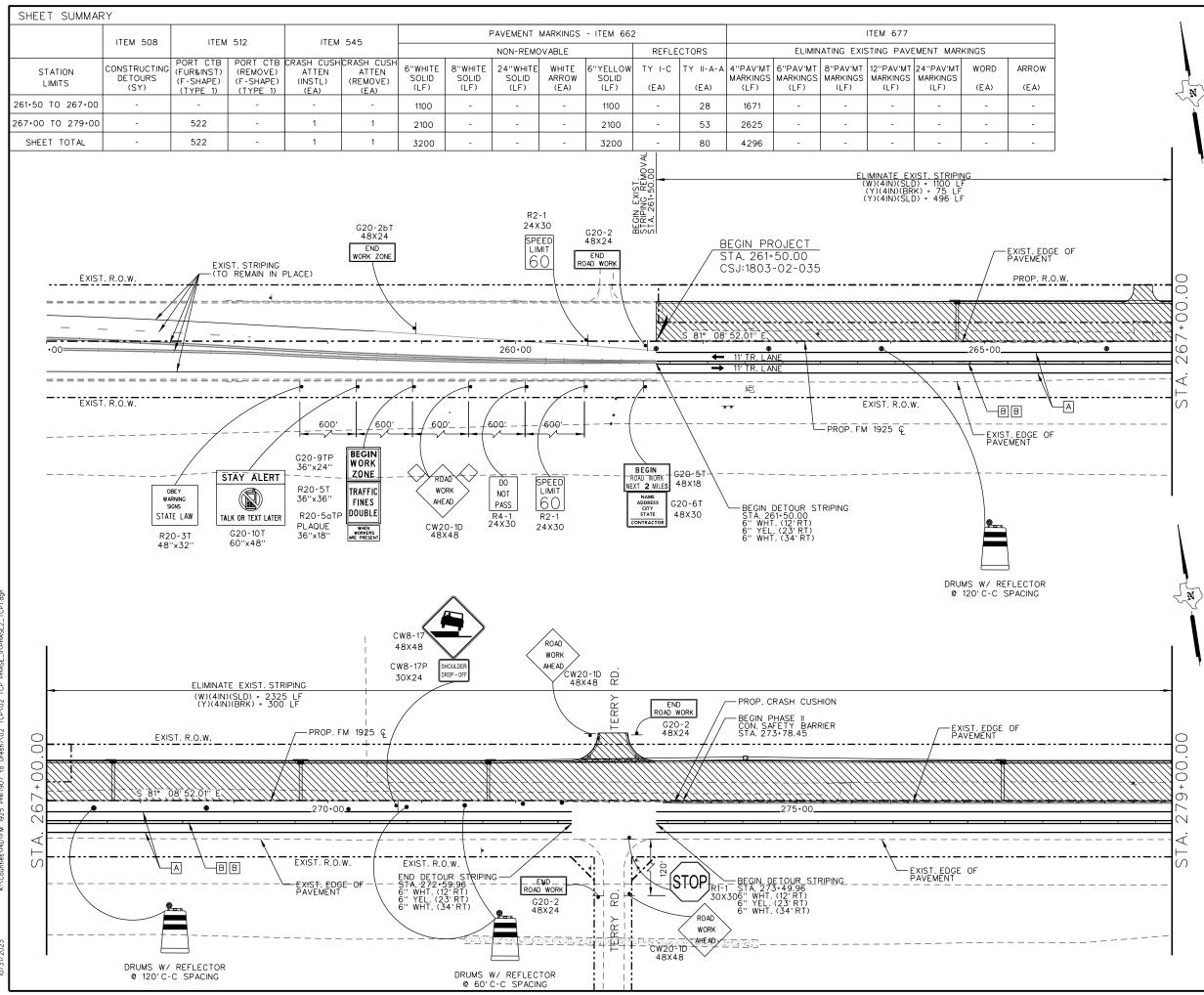


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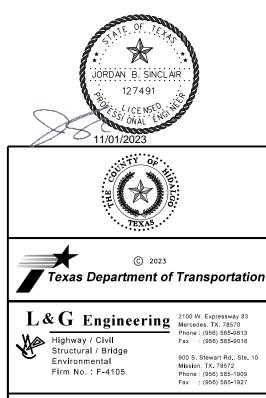


	LEGEND
	CONSTRUCTION PHASE
$\bigotimes$	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW SOLID
BB	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
C	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6'' (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24'' WHITE SOLID
Н	WORK ZONE PVMT MARK (NON-REM) 8" WHITE SOLID
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
κ	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
<b>→</b>	DIRECTION OF TRAFFIC FLOW
	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
<u> </u>	CONSTRUCTION SIGN



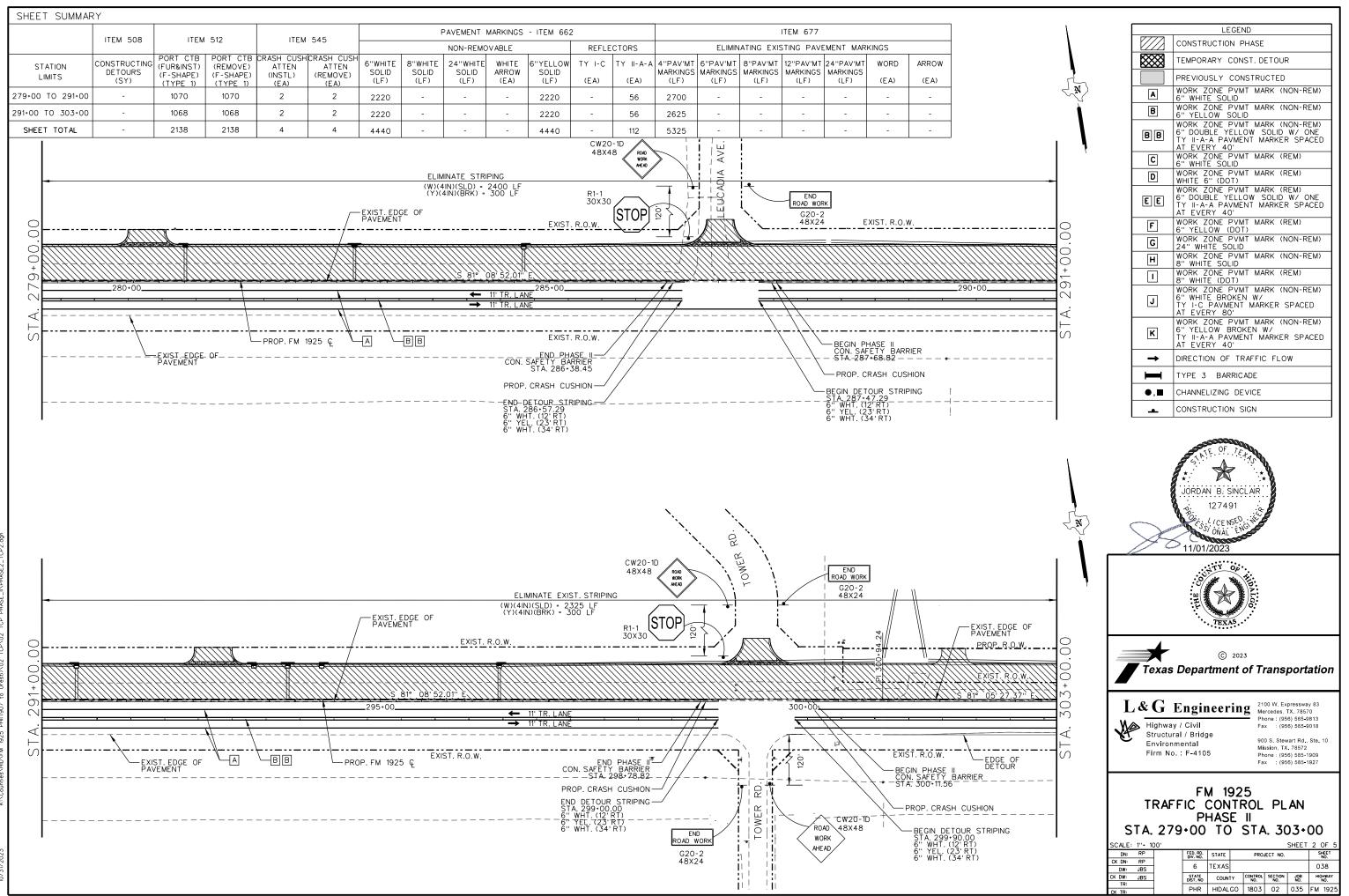


LEGEND						
	CONSTRUCTION PHASE					
$\bigotimes$	TEMPORARY CONST. DETOUR					
	PREVIOUSLY CONSTRUCTED					
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID					
В	WORK ZONE PVMT MARK (NON-REM) 6'' YELLOW SOLID					
88	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'					
C	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID					
D	WORK ZONE PVMT MARK (REM) WHITE 6'' (DOT)					
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'					
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)					
C	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID					
I	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID					
-	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)					
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'					
K	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A- PAVMENT MARKER SPACED AT EVERY 40'					
+	DIRECTION OF TRAFFIC FLOW					
I	TYPE 3 BARRICADE					
●,■	CHANNELIZING DEVICE					
-	CONSTRUCTION SIGN					

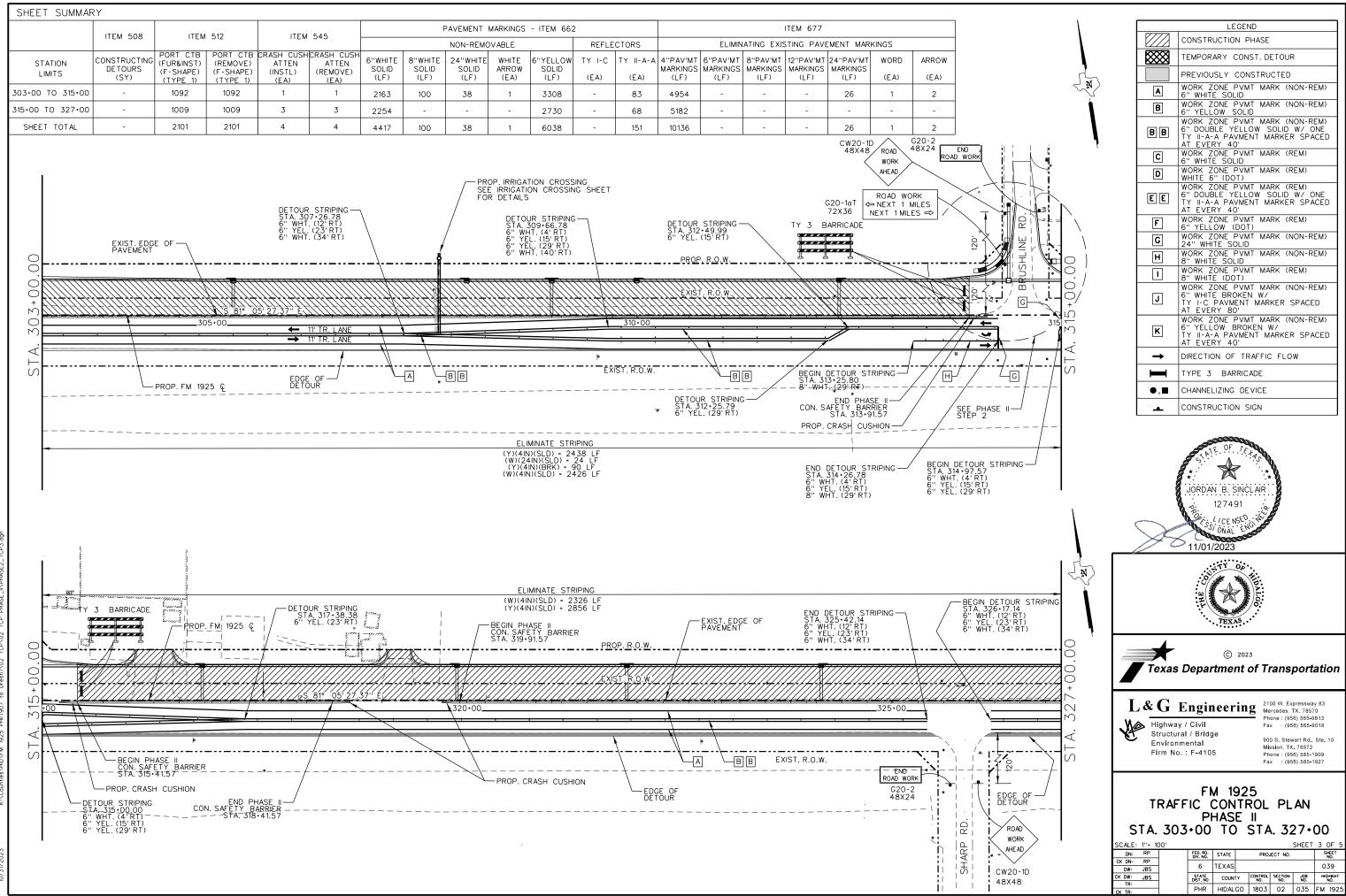


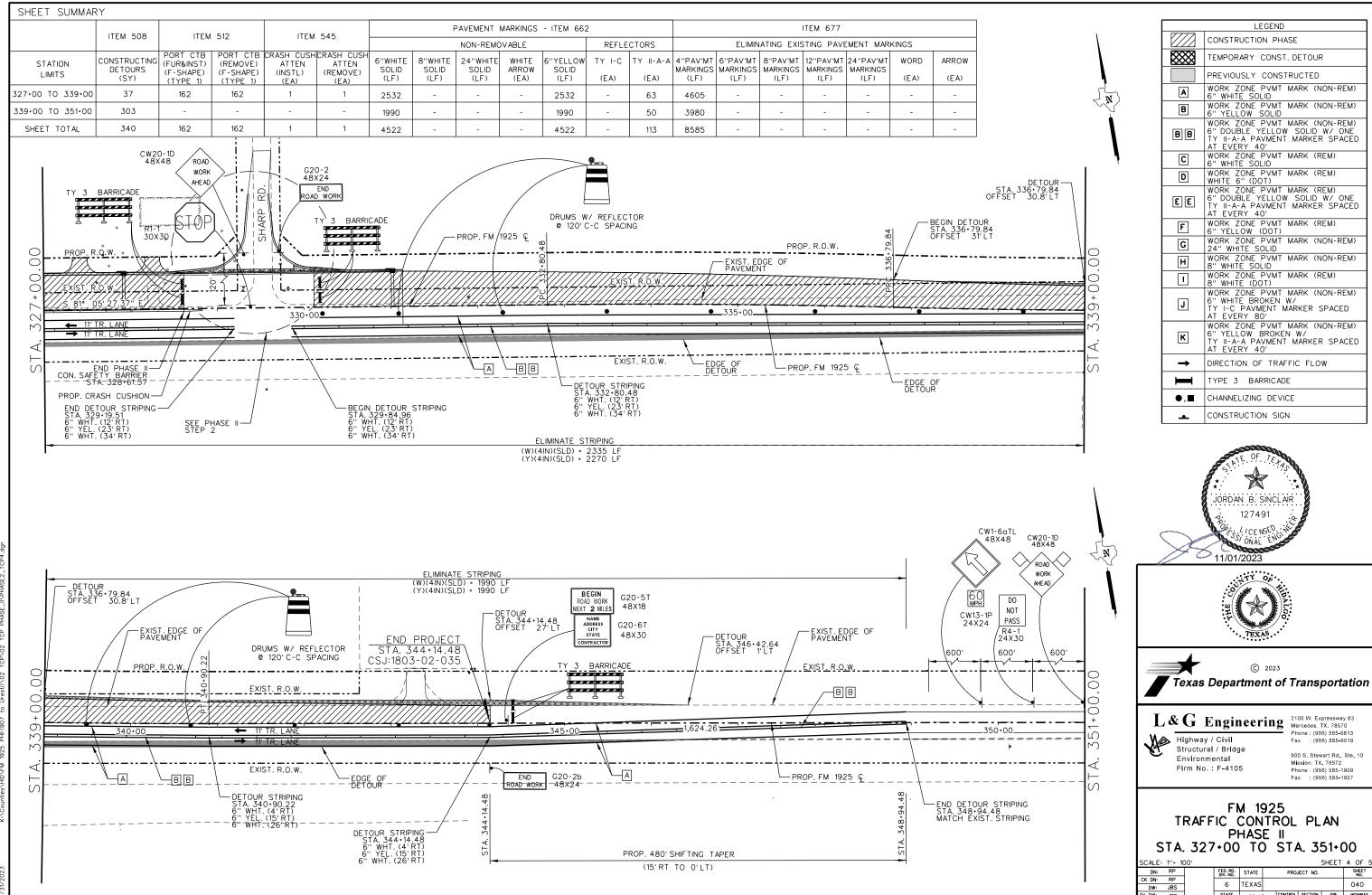
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CK DN:	RP		~	TEVAC	C TEVAC			_	77			
DW:	JBS		6	TEXAS						37		
CK DW:	JBS		STATE DIST, NO	COUNTY		CONTROL NO.	SECTION NO.	JOB NO.		HWAY NO.		
TR:									-			
CK TR:			PHR	HIDAL	GO	1803	02	035	FM	1925		



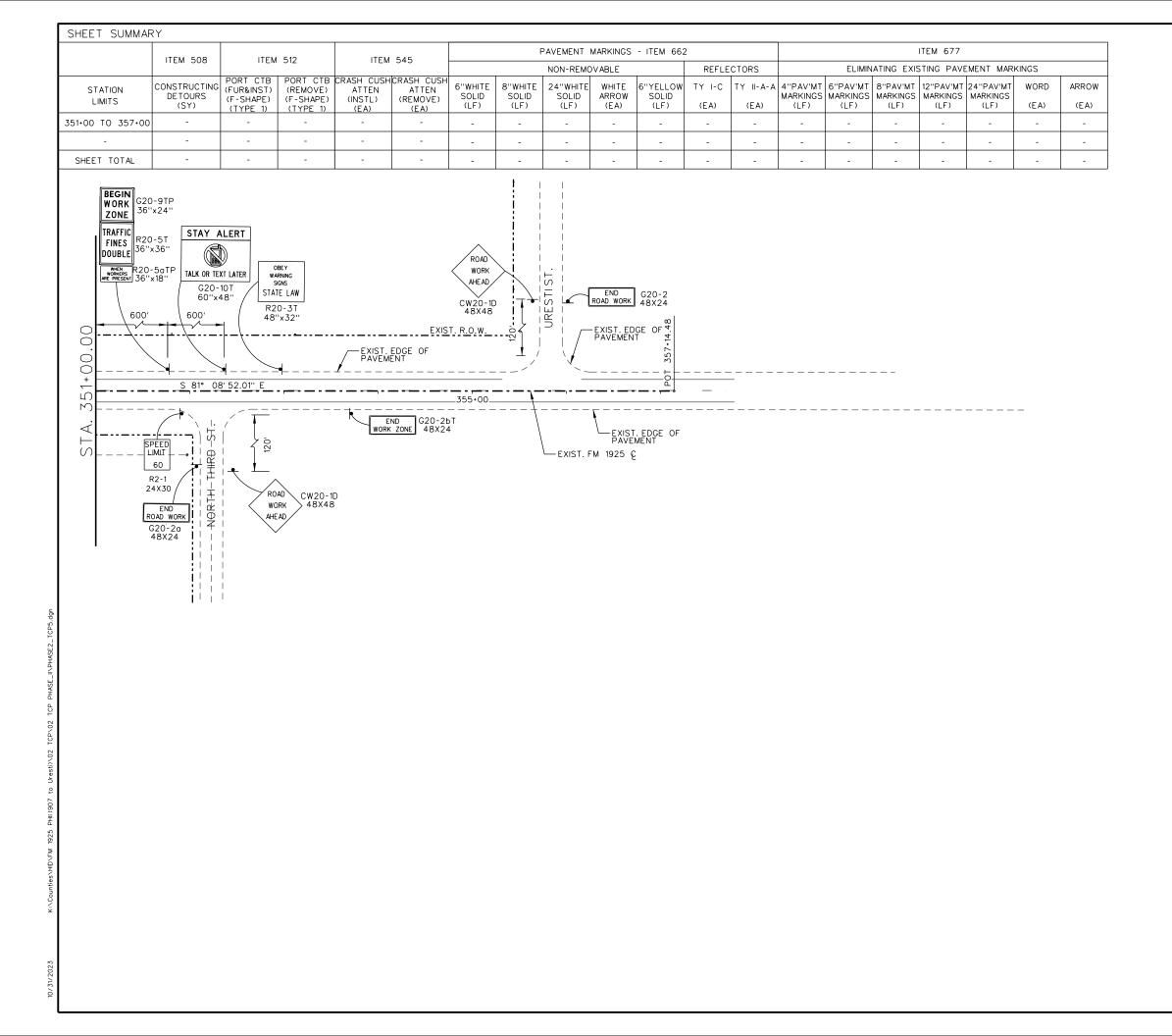
	LEGEND
	CONSTRUCTION PHASE
$\bigotimes$	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6'' YELLOW SOLID
BB	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
С	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6'' (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24'' WHITE SOLID
Н	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
κ	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A- PAVMENT MARKER SPACED AT EVERY 40'
<b>→</b>	DIRECTION OF TRAFFIC FLOW
	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE





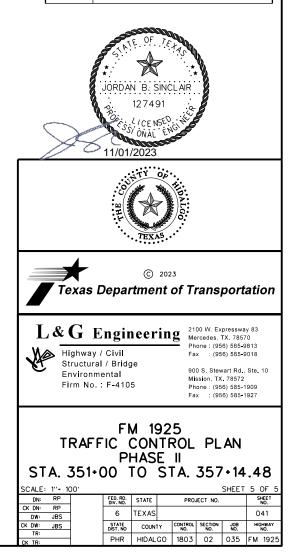
	LEGEND
777	CONSTRUCTION PHASE
	CONSTRUCTION PHASE
	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW SOLID
88	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
С	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6" (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID
н	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
к	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
<b>→</b>	DIRECTION OF TRAFFIC FLOW
	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
<b>.</b>	CONSTRUCTION SIGN
→ ►	AT EVERY 40' DIRECTION OF TRAFFIC FLOW TYPE 3 BARRICADE CHANNELIZING DEVICE

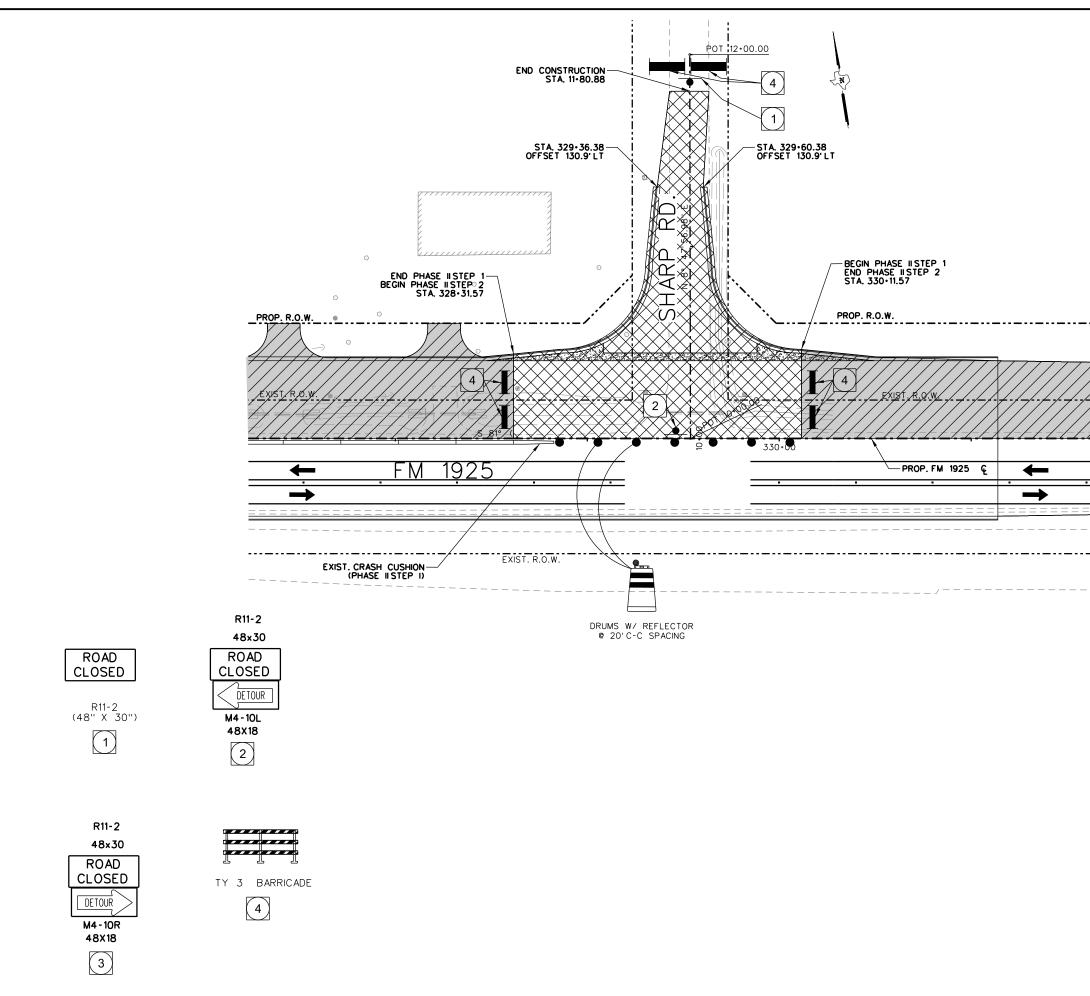
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DN: RP	FED. RD. DIV. NO.	STATE		PRO	ECT NO.		S	HEET NO.
CK DN: RP	<u> </u>	TEVAC					_	40
DW: JBS	6	TEXAS					0.	40
CK DW: JBS	STATE DIST. NO	COUNTY	,	CONTROL NO.	SECTION NO.	JOB NO.		HWAY NO.
TR:	PHR	HIDALG	~	1803	02	035	FM	1925
CK TR:	PHK	HIDALG	U	1603	02	035	ΓM	1920



ZN)

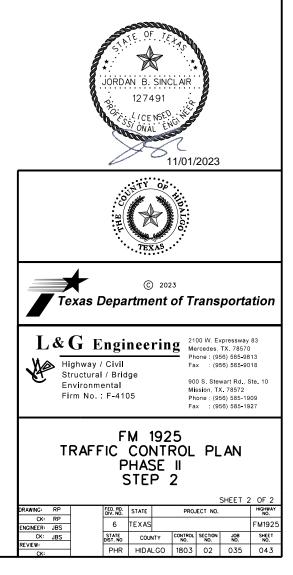
	LEGEND
	CONSTRUCTION PHASE
$\otimes$	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW SOLID
BB	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
C	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6'' (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24'' WHITE SOLID
н	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
κ	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
<b>→</b>	DIRECTION OF TRAFFIC FLOW
	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
<u> </u>	CONSTRUCTION SIGN

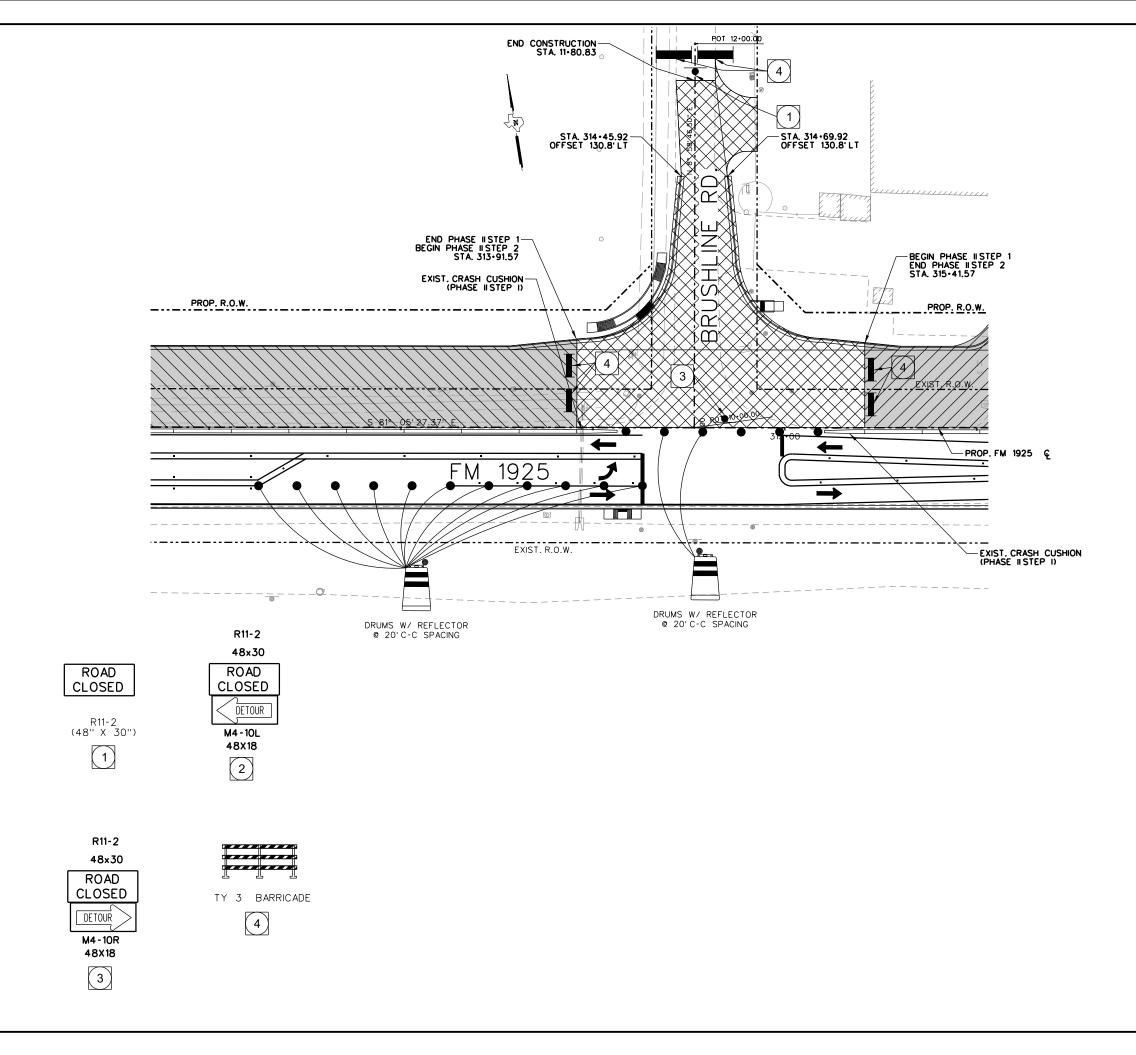




11/1/2023

LEGEND
CONSTRUCTION PHASE II STEP 1
CONSTRUCTION PHASE II STEP 2
PREVIOUSLY CONSTRUCTED
DIRECTION OF TRAFFIC FLOW
TYPE 3 BARRICADE
CHANNELIZING DEVICE
CONSTRUCTION SIGN

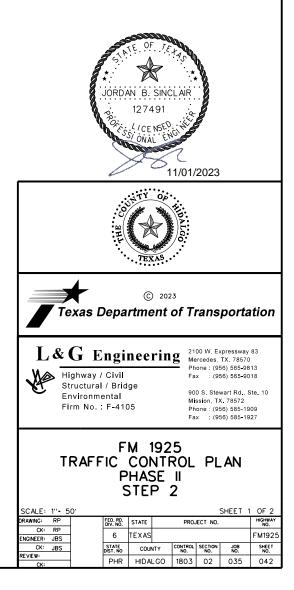


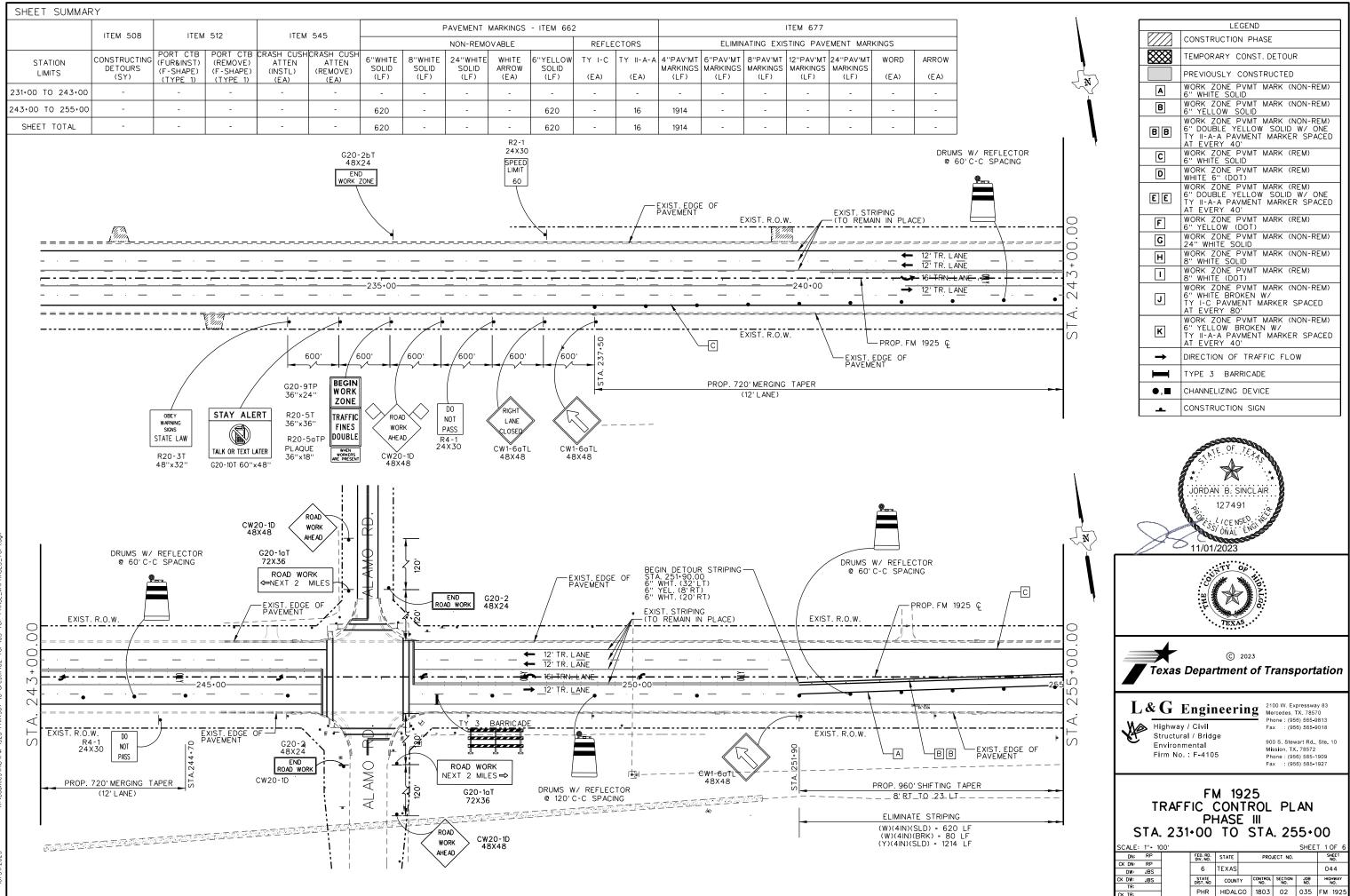


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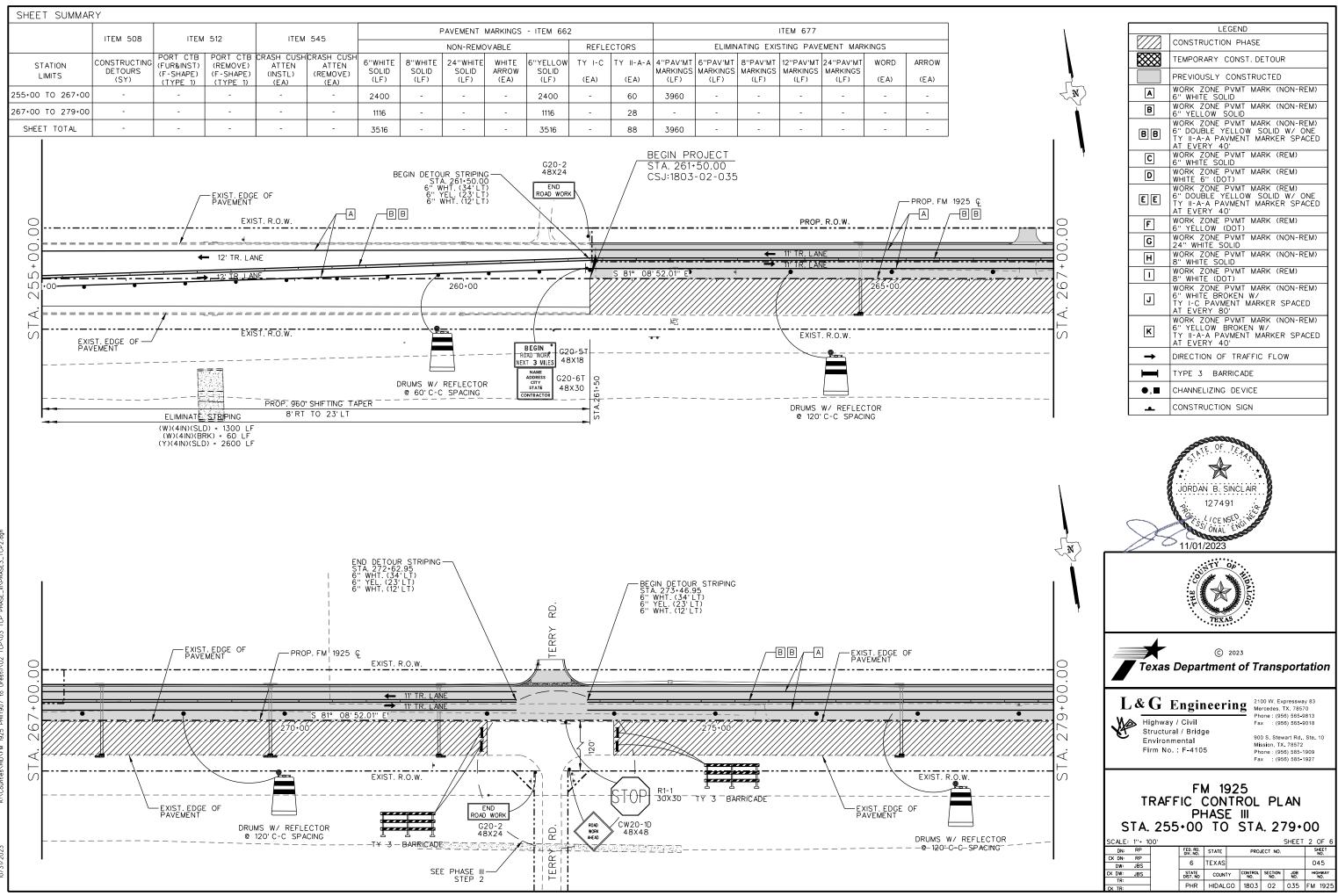
	LEGEND
	CONSTRUCTION PHASE II STEP 1
$\otimes$	CONSTRUCTION PHASE II STEP 2
	PREVIOUSLY CONSTRUCTED
$\rightarrow$	DIRECTION OF TRAFFIC FLOW
Ι	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
<u> </u>	CONSTRUCTION SIGN

NOTE: FOR PHASE IISTEP 2, TURN OFF SIGNAL AND COVER SIGNAL HEADS.

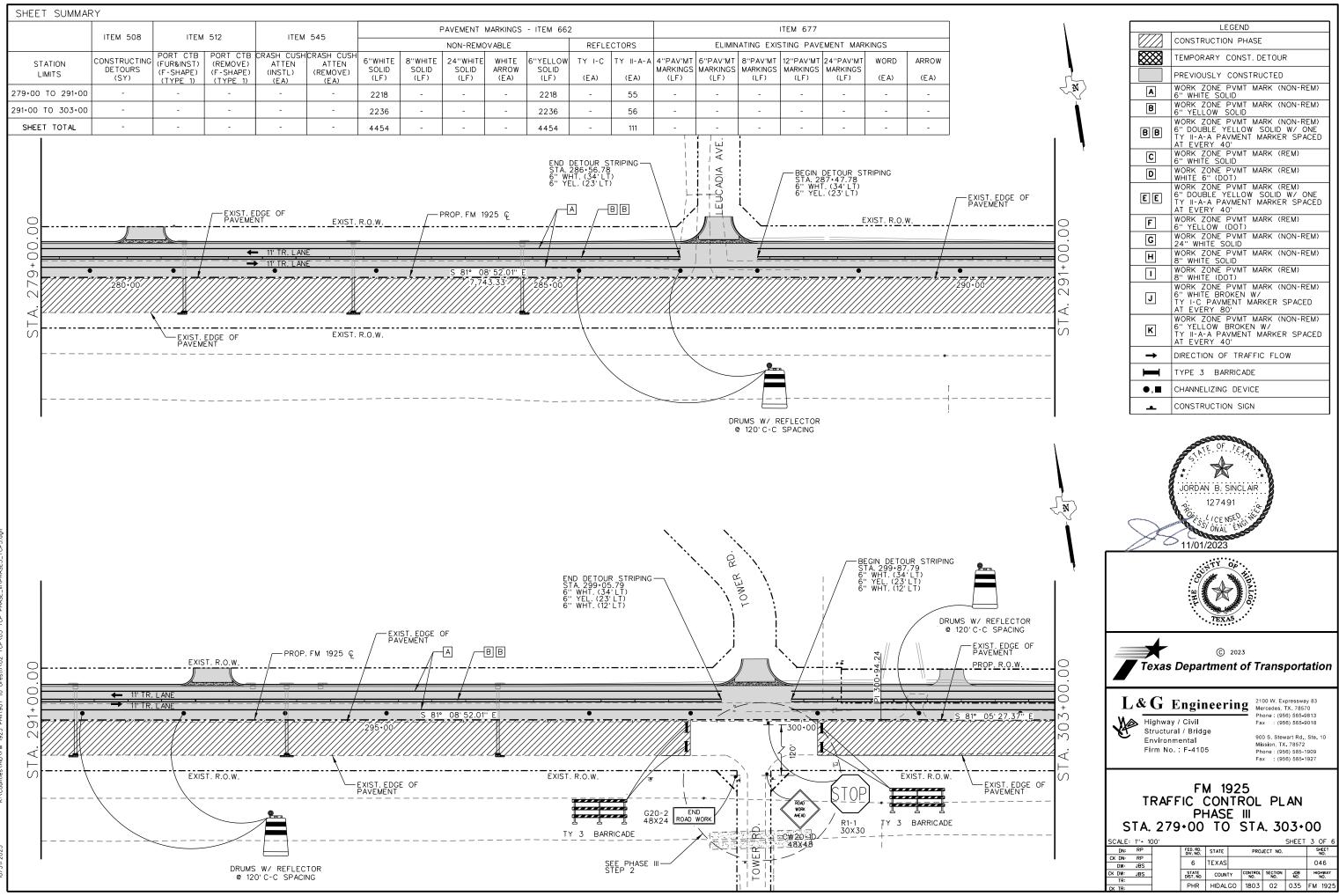




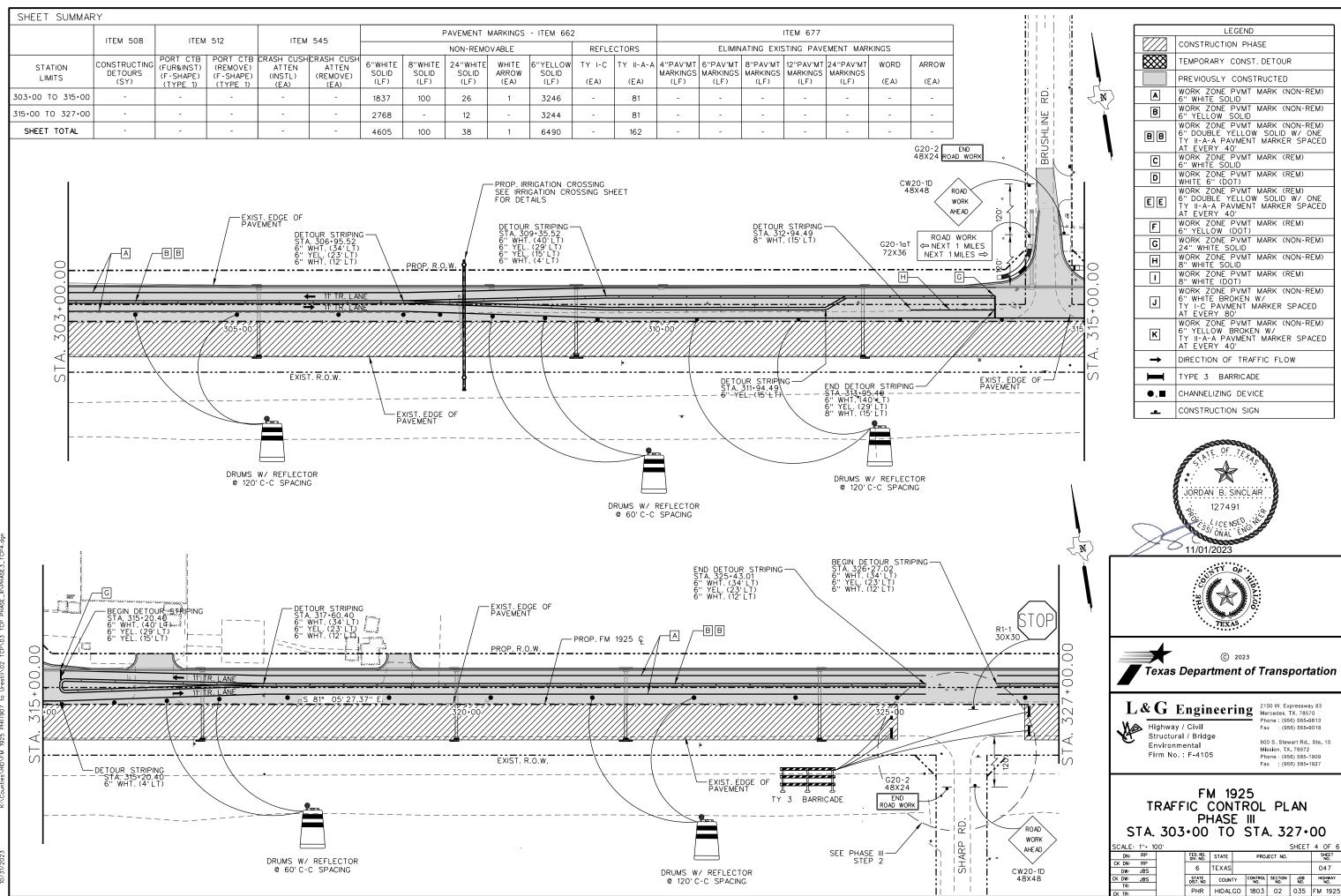
	LEGEND
	CONSTRUCTION PHASE
	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
A	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6'' YELLOW SOLID
88	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
С	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6'' (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)
C	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID
H	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
-	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
к	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A- PAVMENT MARKER SPACED AT EVERY 40'
$\rightarrow$	DIRECTION OF TRAFFIC FLOW
I	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
-	CONSTRUCTION SIGN

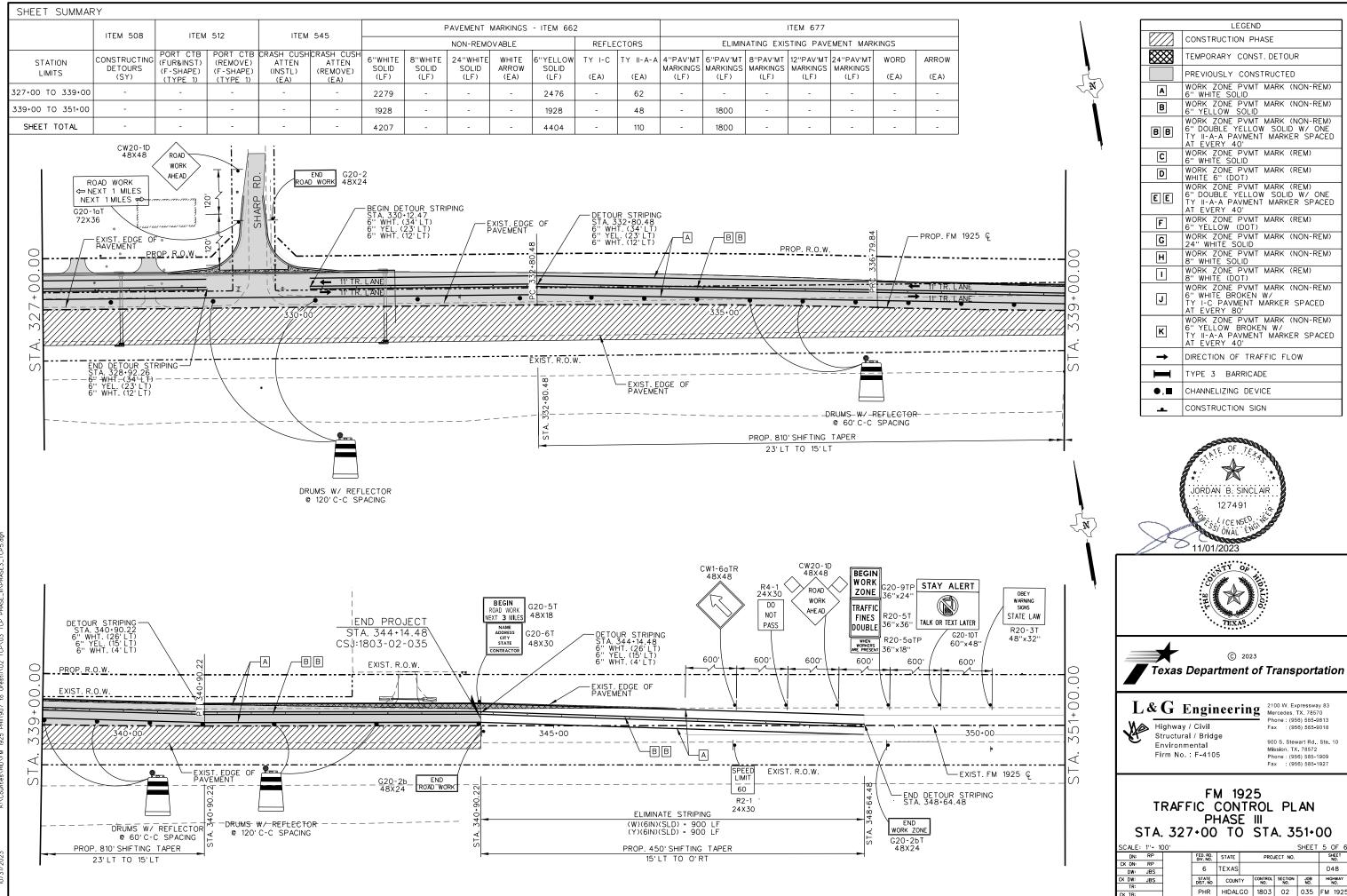


	LEGEND
7/72	CONSTRUCTION PHASE
	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
A	WORK ZONE PVMT MARK (NON-REM) 6" WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6'' YELLOW SOLID
BB	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
С	WORK ZONE PVMT MARK (REM) 6" WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6" (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6" YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID
Н	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
Ι	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
κ	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
<b>→</b>	DIRECTION OF TRAFFIC FLOW
	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
-	CONSTRUCTION SIGN



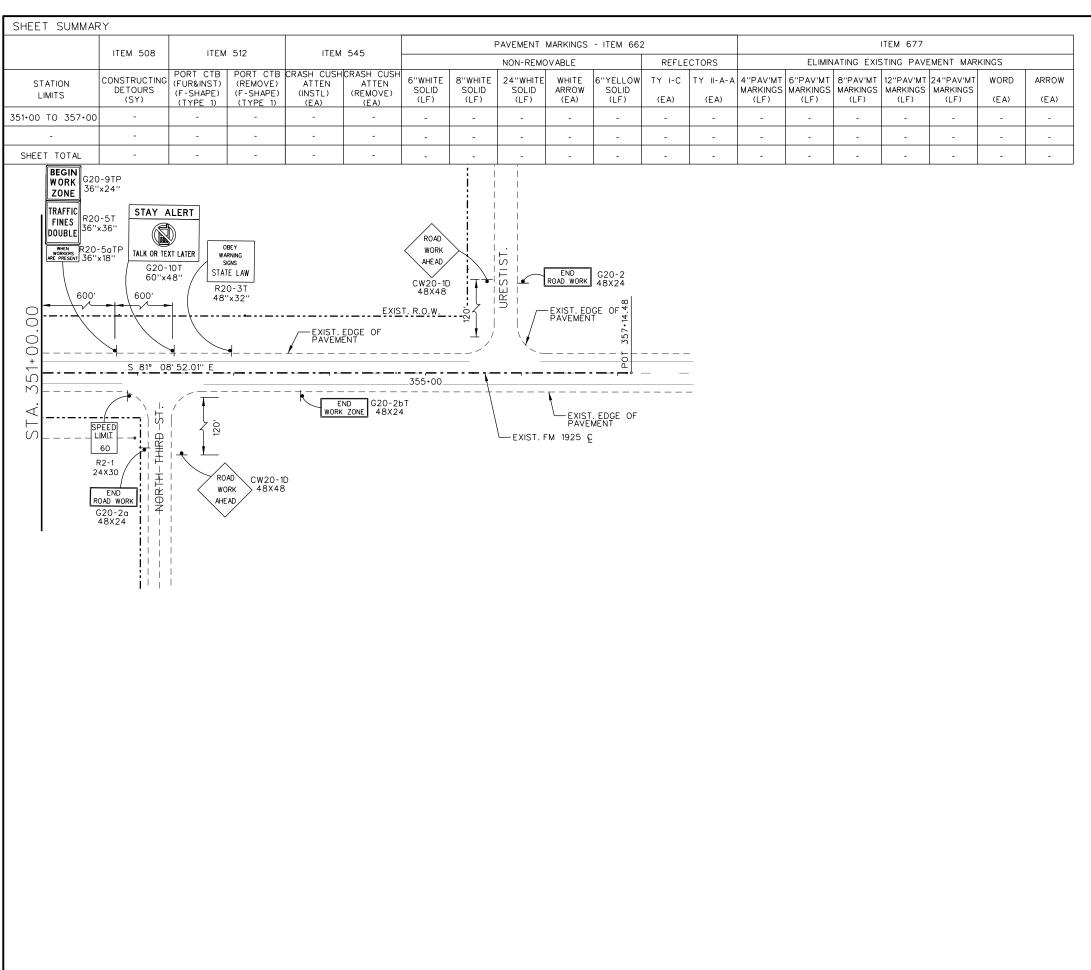
A	WORK ZONE PVMT MARK (NON-REM: 6'' WHITE SOLID
B	WORK ZONE PVMT MARK (NON-REM: 6'' YELLOW SOLID
88	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACEI AT EVERY 40'
C	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6'' (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACEI AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6'' YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID
н	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
-	WORK ZONE PVMT MARK (REM) 8'' WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
к	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACEI AT EVERY 40'
<b>→</b>	DIRECTION OF TRAFFIC FLOW
Ι	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
-	CONSTRUCTION SIGN





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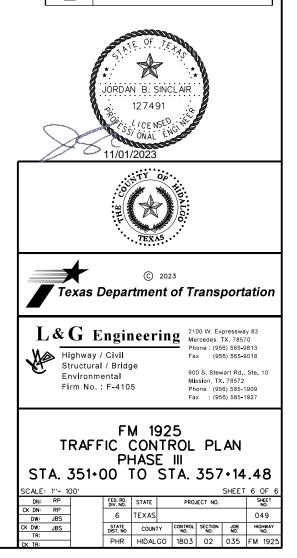


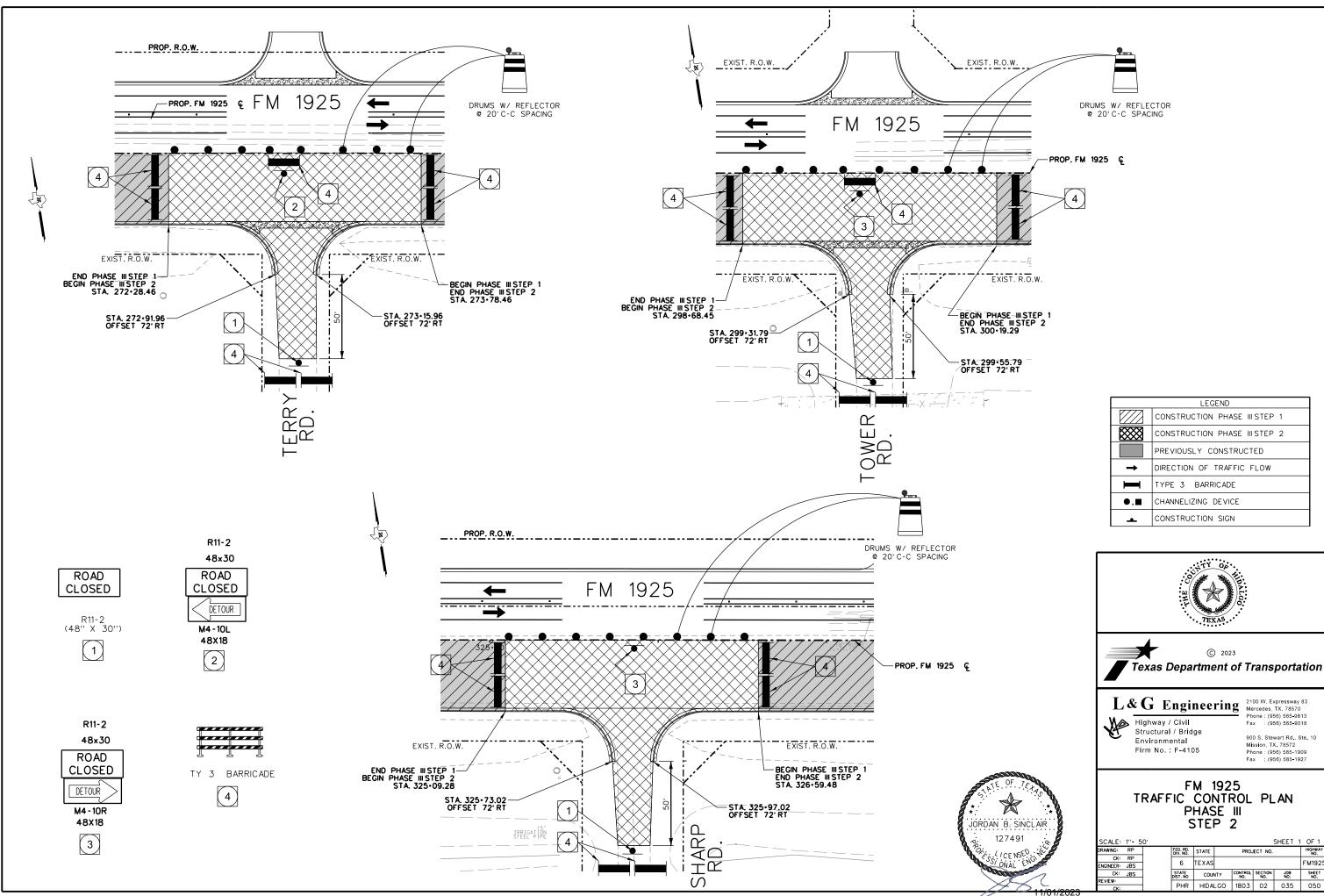
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10/31/2023

(M)

	LEGEND
	CONSTRUCTION PHASE
	TEMPORARY CONST. DETOUR
	PREVIOUSLY CONSTRUCTED
Α	WORK ZONE PVMT MARK (NON-REM) 6'' WHITE SOLID
В	WORK ZONE PVMT MARK (NON-REM) 6'' YELLOW SOLID
BB	WORK ZONE PVMT MARK (NON-REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
С	WORK ZONE PVMT MARK (REM) 6'' WHITE SOLID
D	WORK ZONE PVMT MARK (REM) WHITE 6" (DOT)
EE	WORK ZONE PVMT MARK (REM) 6" DOUBLE YELLOW SOLID W/ ONE TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
F	WORK ZONE PVMT MARK (REM) 6'' YELLOW (DOT)
G	WORK ZONE PVMT MARK (NON-REM) 24" WHITE SOLID
н	WORK ZONE PVMT MARK (NON-REM) 8'' WHITE SOLID
Ι	WORK ZONE PVMT MARK (REM) 8" WHITE (DOT)
J	WORK ZONE PVMT MARK (NON-REM) 6" WHITE BROKEN W/ TY I-C PAVMENT MARKER SPACED AT EVERY 80'
κ	WORK ZONE PVMT MARK (NON-REM) 6" YELLOW BROKEN W/ TY II-A-A PAVMENT MARKER SPACED AT EVERY 40'
<b>→</b>	DIRECTION OF TRAFFIC FLOW
	TYPE 3 BARRICADE
●,■	CHANNELIZING DEVICE
<u> </u>	CONSTRUCTION SIGN





	LEGEND					
CONSTRUCTION PHASE III STEP 1						
	CONSTRUCTION PHASE III STEP 2					
	PREVIOUSLY CONSTRUCTED					
<b>→</b>	→ DIRECTION OF TRAFFIC FLOW					
Ι	TYPE 3 BARRICADE					
●,■	CHANNELIZING DEVICE					
-	CONSTRUCTION SIGN					

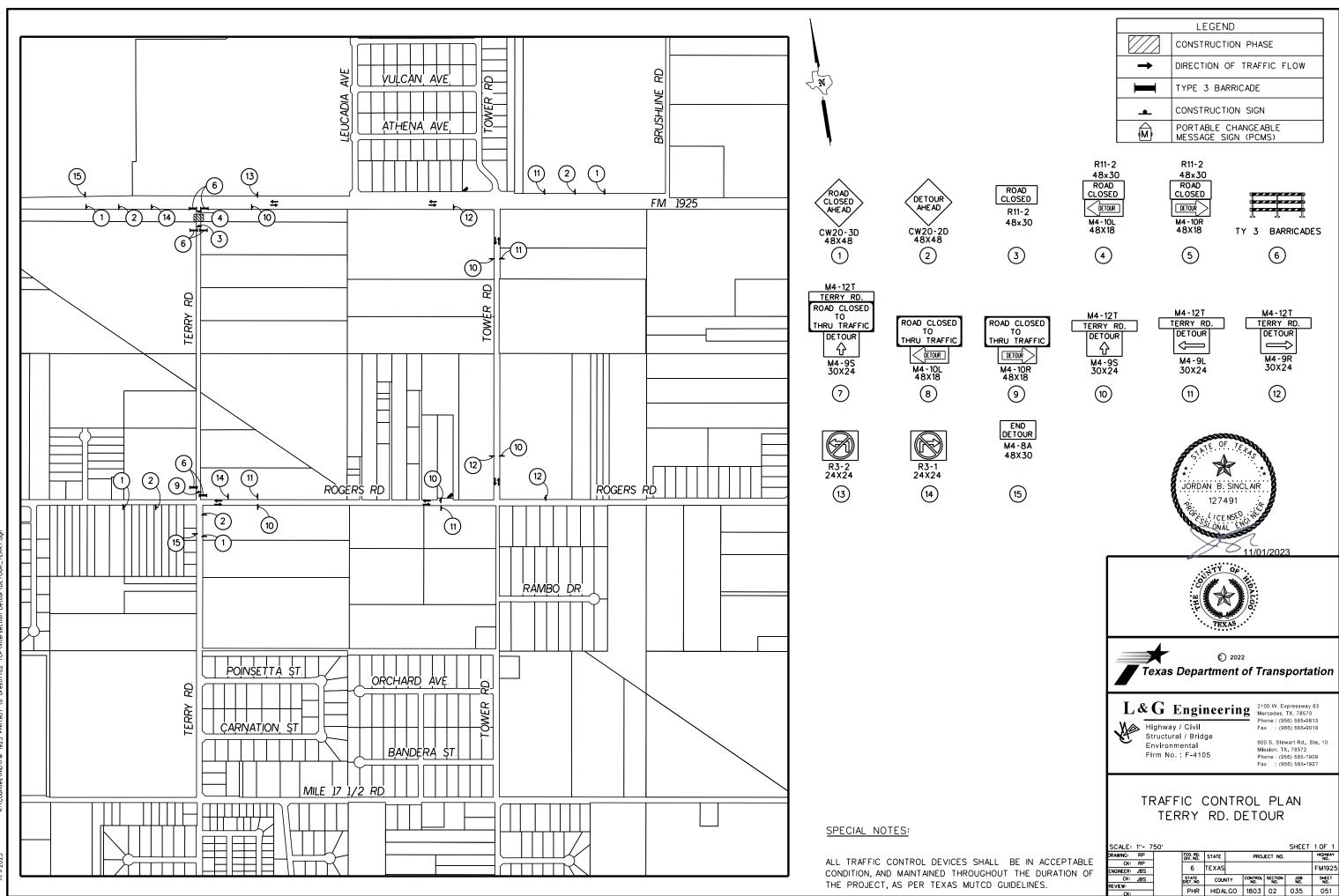


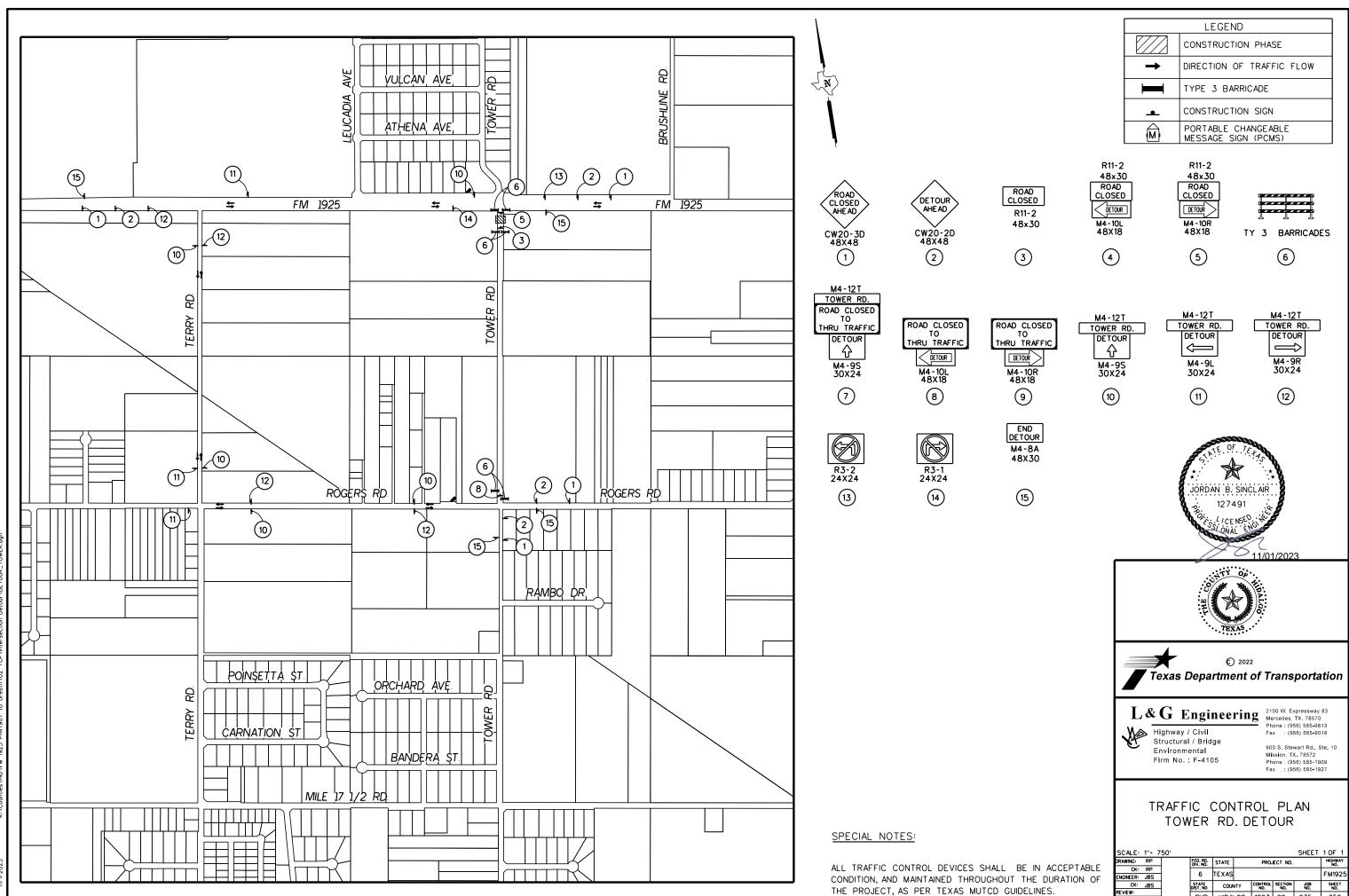
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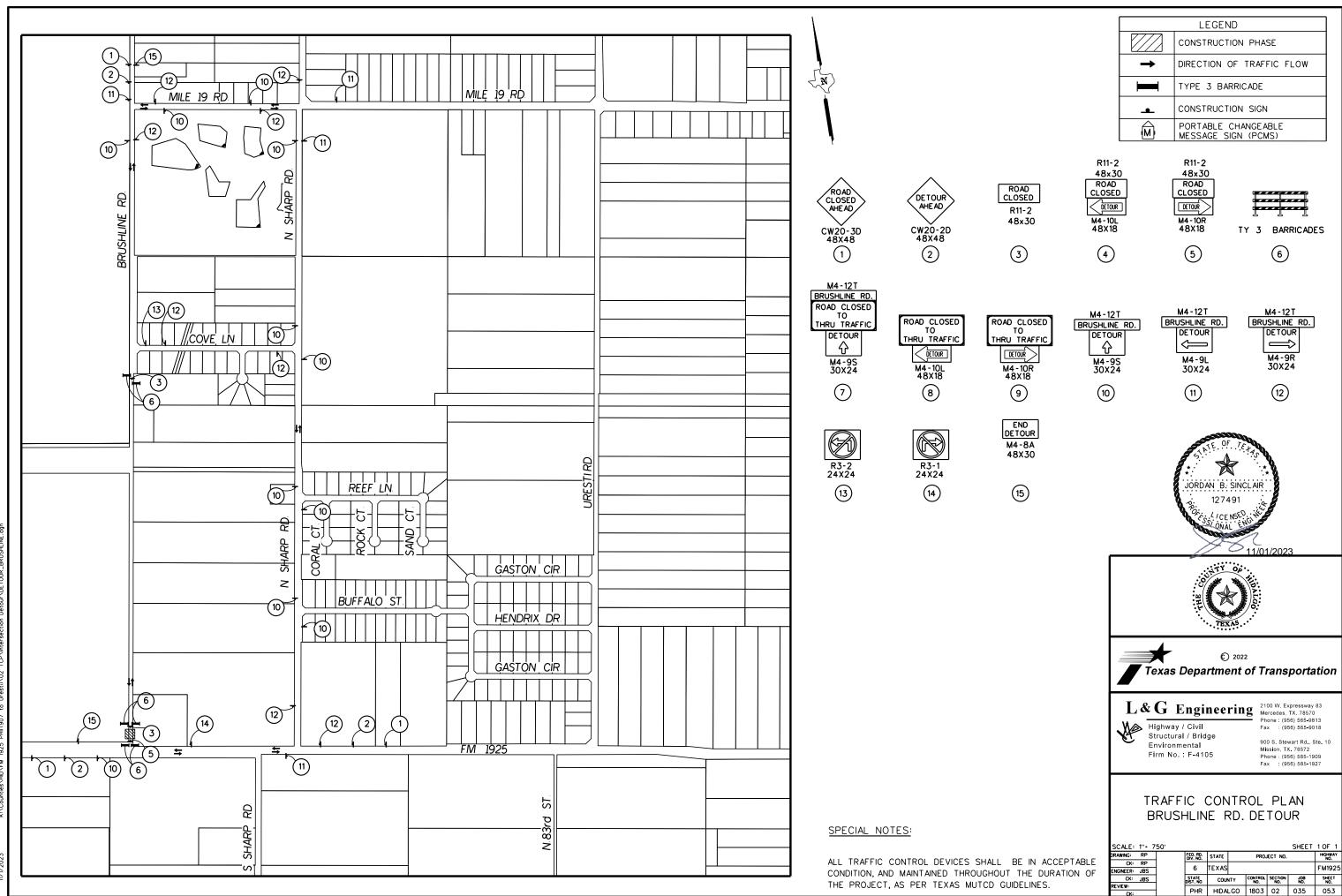
# FM 1925 TRAFFIC CONTROL PLAN PHASE III STEP 2

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REVIEW: CK:			PHR	HIDA	LGO	1803	02	035	050

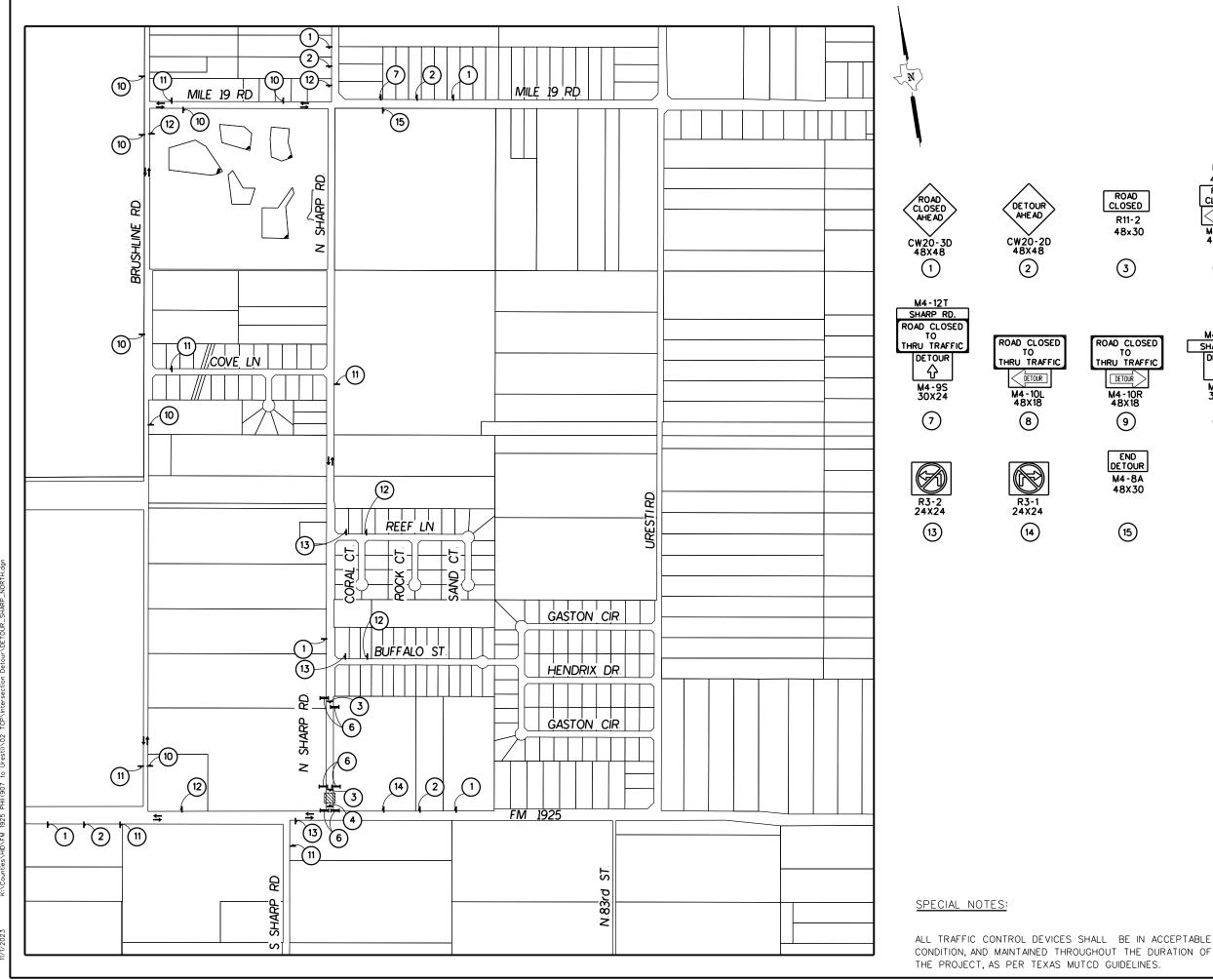


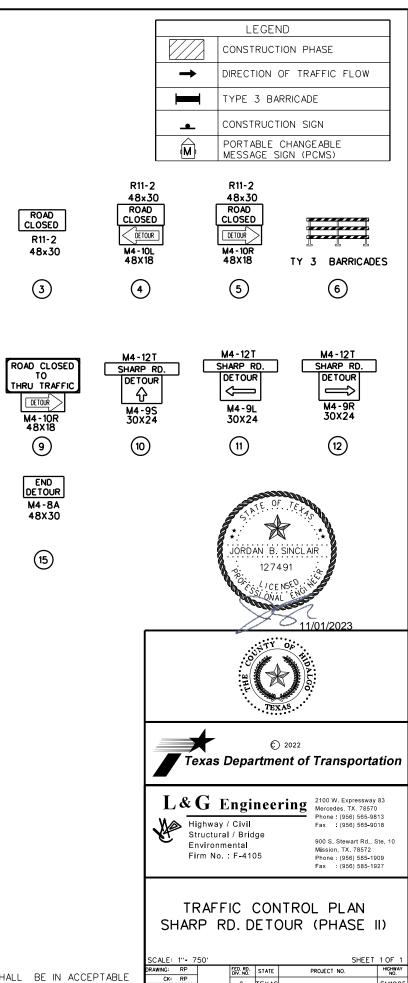


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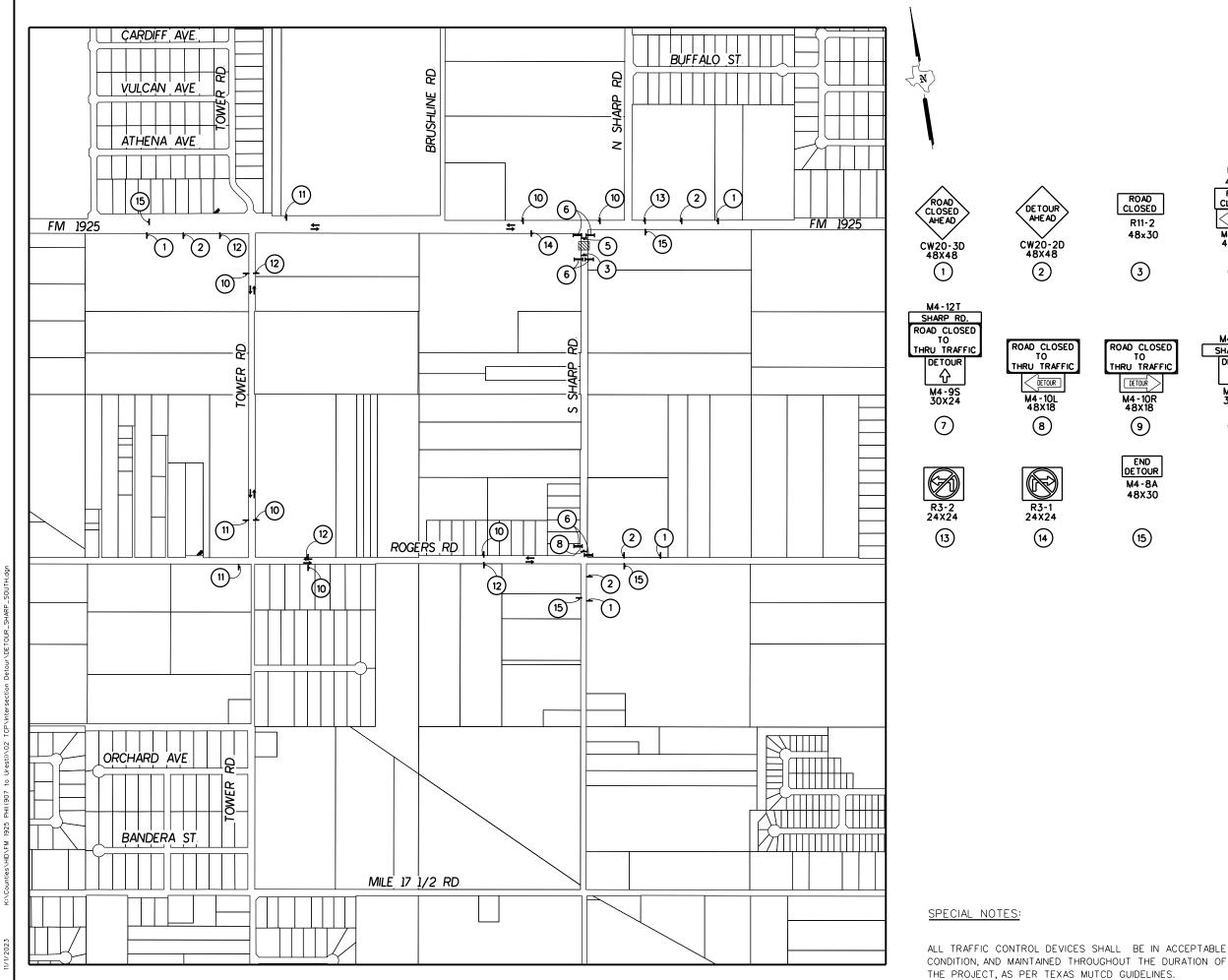


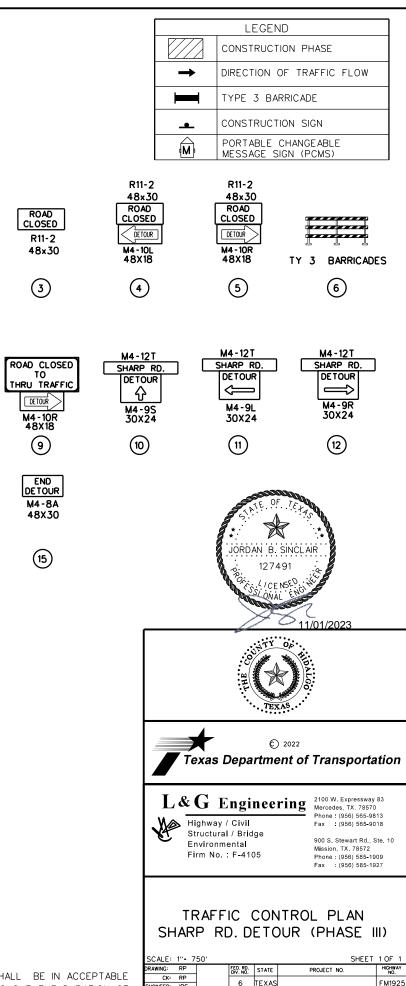
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### BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- 1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manualon 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 travellanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

### WORKER SAFETY NOTES:

- 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-gualified 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-LI http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MAN
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
TRAFFIC ENGINEERING STANDARD SHEETS

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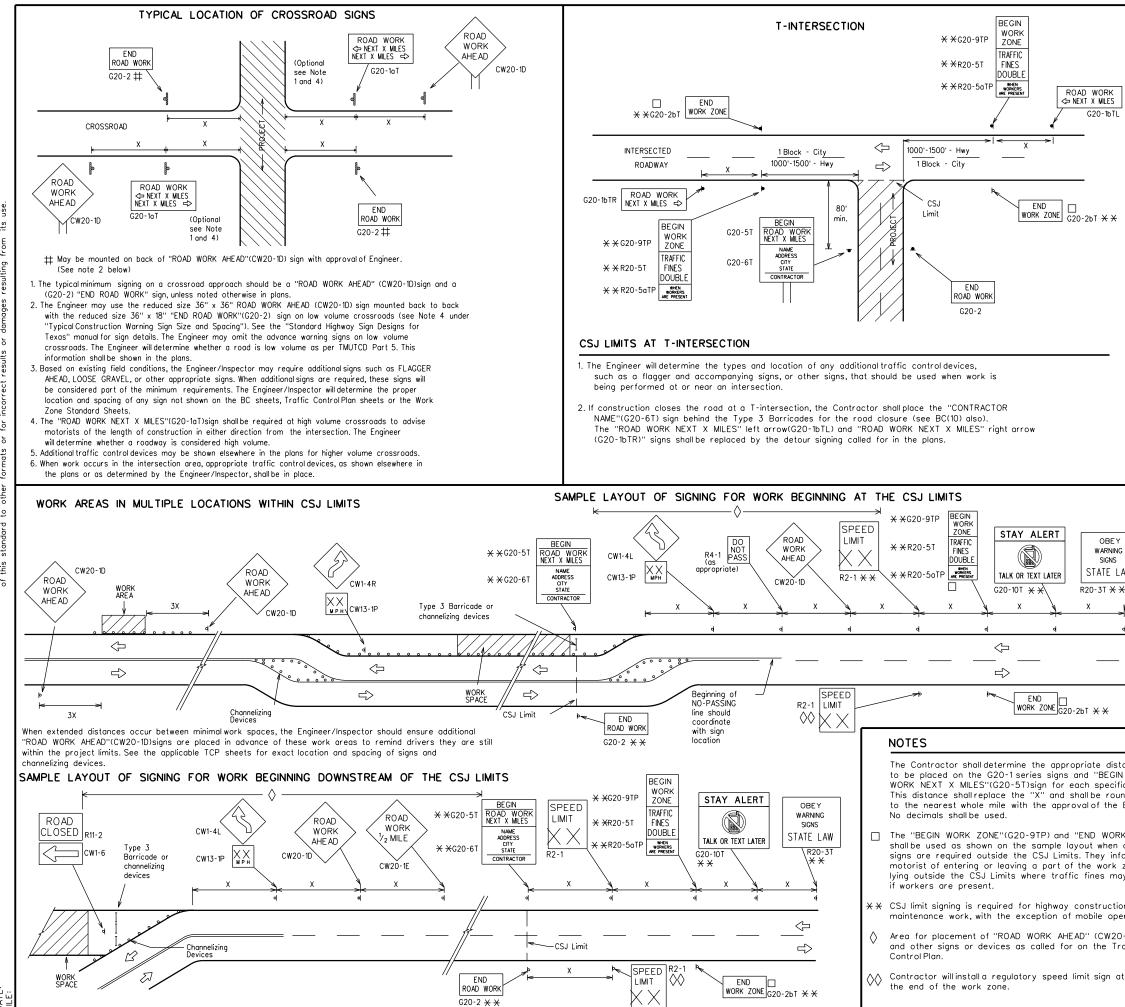
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Traffic Safety Texas Department of Transportation Standard							
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS BC(1)-21							
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SHEET 1 OF 12



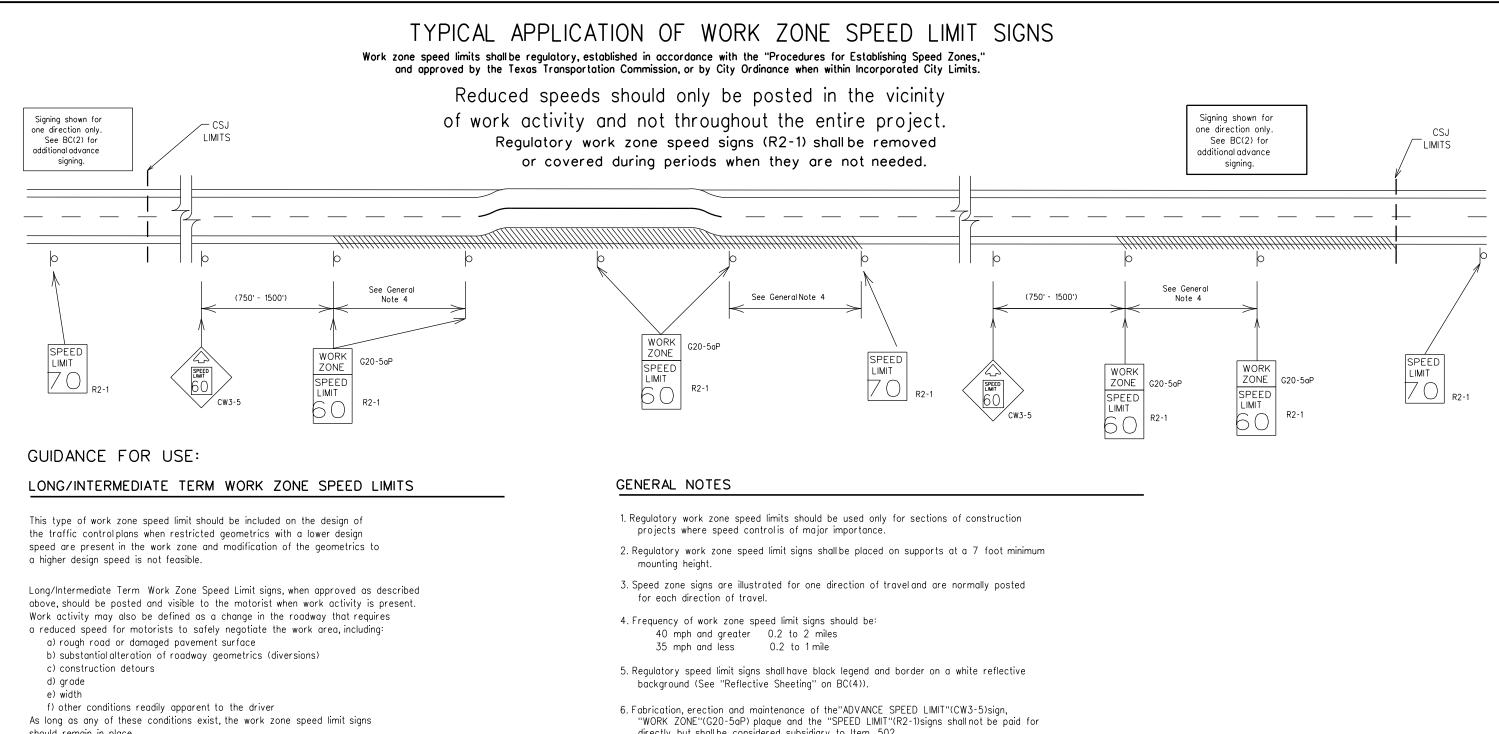
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		SIZE		SF	PACING
	Sign Number or Series	Conventional Road	Expressway/ Freeway	Posted Speed	Sign ∆ Spacing ''X''
	CW20 <sup>4</sup> CW21			MPH 30	Feet (Apprx.) 120
	CW22 CW23 CW25	48" x 48"	48" x 48"	35 40	160 240
	CW1, CW2, CW7, CW8, CW9, CW11, CW14	36'' x 36'' 48	× 48''	45 50 55 60	320 400 500 <sup>2</sup> 600 <sup>2</sup>
	CW3, CW4,	48'' x 48'' 48	' x 48''	65 70 75	700 <sup>2</sup> 800 <sup>2</sup> 900 <sup>2</sup>
	CW10, CW12			80	1000 <sup>2</sup> *
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	or more advance	warning.	used as required to h		
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TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

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should remain in place.

### SHORT TERM WORK ZONE SPEED LIMITS

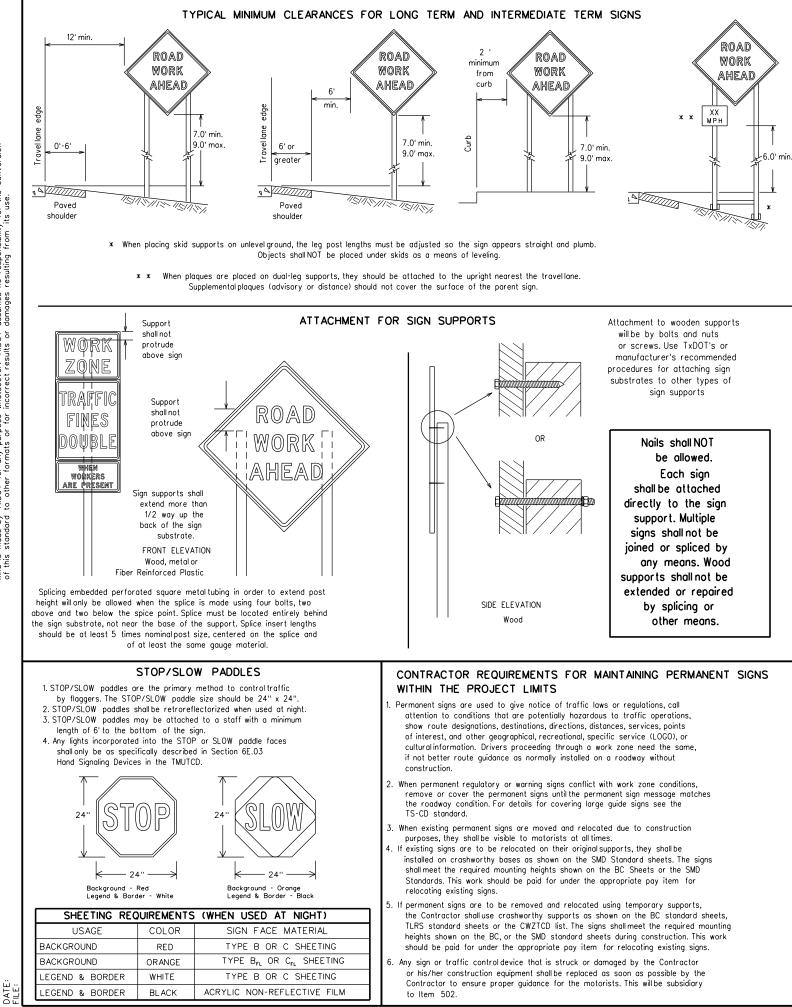
This type of work zone speed limit may be included on the design of the traffic controlplans when workers or equipment are not behind concrete barrier, when work activity is within 10 feet of the traveled way or actually in the traveled way.

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)).

- directly, but shall be considered subsidiary to Item 502.
- 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.

SHEET 3 OF 12						
Traffic Safety Texas Department of Transportation Standard						
BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT BC(3)-21						
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### GENERAL NOTES FOR WORK ZONE SIGNS

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

### The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

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

- 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.

# SIZE OF SIGNS

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

### SIGN SUBSTRATES

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

### REFLECTIVE SHEETING

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

### SIGN LETTERS

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

### REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered. 2. Long-term stationary or intermediate stationary signs installed on square metaltubing 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. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the
- entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting. Burlap shall NOT be used to cover signs.
- 6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

### SIGN SUPPORT WEIGHTS

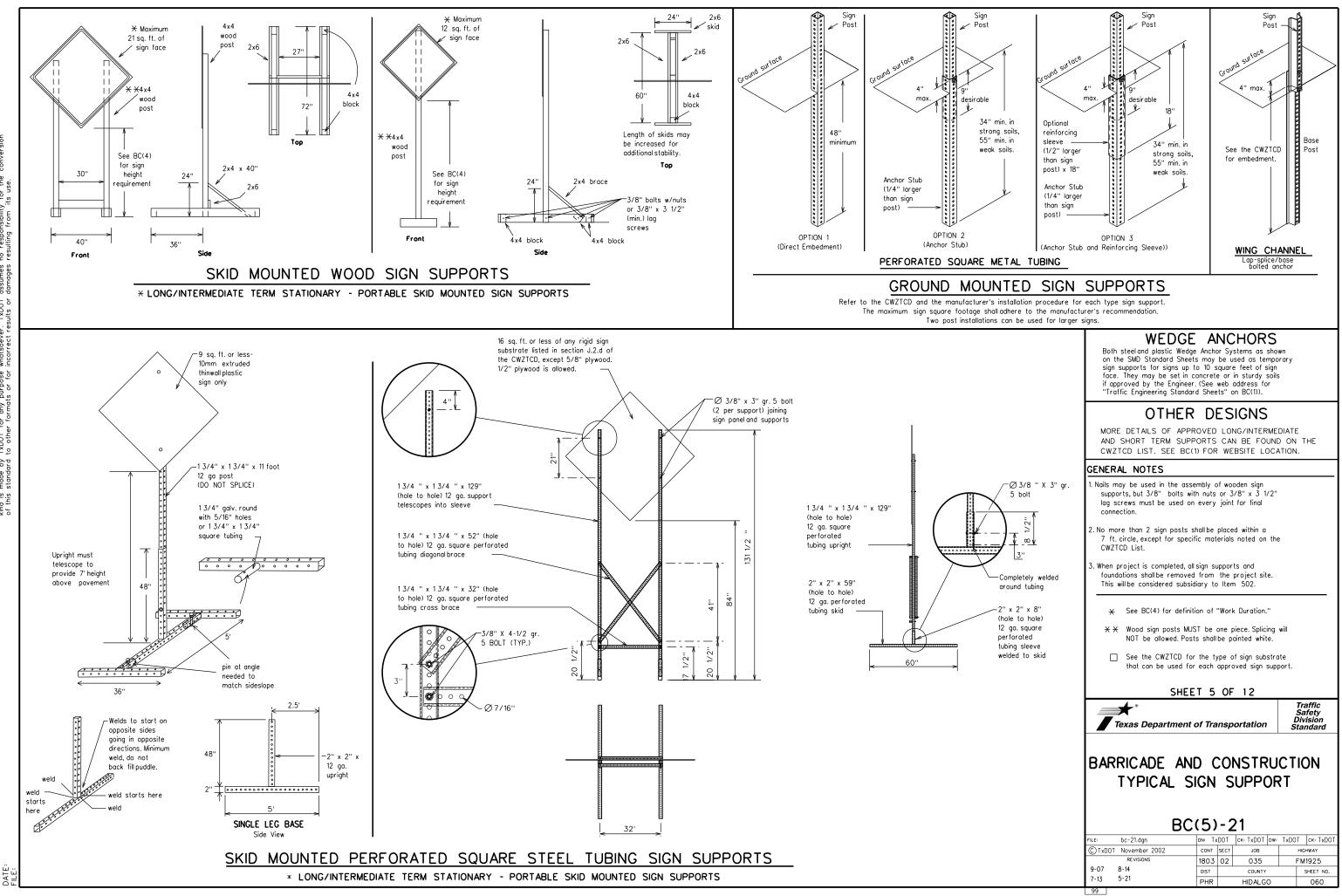
- 1. Where sign supports require the use of weights to keep from turning over, the use
- of sandbags with dry, cohesionless sand should be used. The sandbags will be tied shut to keep the sand from spilling and to maintain a
- constant weight. 3. Rock, concrete, iron, steel or other solid objects shall not be permitted
- for use as sign support weights. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular
- impact. Rubber (such as tire inner tubes) shall NOT be used.
- Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
- Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbaas shall be placed along the length of the skids to weigh down the sign support.
- Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

### FLAGS ON SIGNS

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

Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

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### 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.

		۱	
WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	CCS RD	Najor MAJ	
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Northbound	(route) N
Construction Ahead	CONST AHD	Parking Road	PKING RD
CROSSING	XING	Right Lane	1.100
Detour Route	DETOUR RTE	Saturday	RT LN SAT
Do Not	DONT	Service Road	SERV RD
East	F	Shoulder	SHLDR
Eastbound	(route) E	Slippery	SLIP
Emergency	EMER	South	S
Emergency Vehicle		Southbound	(route) S
Entrance, Enter	ENT	Speed	SPD
Express Lane	EXP LN	Street	ST
Expressway	EXPWY	Sunday	SUN
XXXX Feet	XXXX FT	Telephone	PHONE
Fog Ahead	FOG AHD	Temporary	TEMP
Freeway	FRWY, FWY	Thursday	THURS
Freeway Blocked	FWY BLKD	To Downtown	TO DWNTN
Friday	FRI	Traffic	TRAF
Hazardous Driving	HAZ DRIVING	Travelers	TRVLRS
Hazardous Materia	HAZMAT	Tuesday	TUES
High-Occupancy	HOV	Time Minutes	TIME MIN
Vehicle	Н₩Ү	Upper Level	
Highway		Vehicles (s)	VEH. VEHS
Hour(s)	HR, HRS	Warning	WARN
Information	INFO	Wednesday	WED
It Is	ITS	Weight Limit	WT LIMIT
Junction	JCT	West	W
Left	LFT	Westbound	(route) W
Left Lane	LFT LN	Wet Pavement	WET PVMT
Lane Closed	LN CLOSED	Will Not	WONT
Lower Level	LWR LEVEL		
Maintenance	MAINT		

RECOMMENDED	PHASES	AND	FORMATS	FOR	PCMS	MESSAGES	DURI

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

### Phase 1: Condition Lists

### Road/Lane/Ramp Closure List

Rodd/ Edite/ Rdin	p closure List	Other Condi	LION LIST
FREEWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT
ROAD CLOSED AT SH XXX	SHOULDER CLOSED XXX FT	FLAGGER XXXX FT	LANE NARROWS XXXX FT
ROAD CLSD AT FM XXXX	RIGHT LN CLOSED XXX FT	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
RIGHT X LANES CLOSED	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
CENTER LANE CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
NIGHT LANE CLOSURES	I-XX SOUTH EXIT CLOSED	DETOUR X MILE	ROUGH ROAD XXXX FT
V ARIOUS L ANE S CLOSED	EXIT XXX CLOSED X MILE	ROADWORK PAST SH XXXX	ROADWORK NEXT FRI-SUN
EXIT CLOSED	RIGHT LN TO BE CLOSED	BUMP XXXX FT	US XXX EXIT X MILES
MALL DRIVEWAY CLOSED	X LANES CLOSED TUE - FRI	TRAFFIC SIGNAL XXXX FT	L ANE S SHIF T
XXXXXXXX BLVD CLOSED	* LANES SHIFT in PI	nose 1 must be used with STAY	IN LANE in Phase 2.

Other Cond	dition 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	L ANE S SHIF T

Action to Take/Effect on Travel

L	.ist
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	ĸ

### 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.

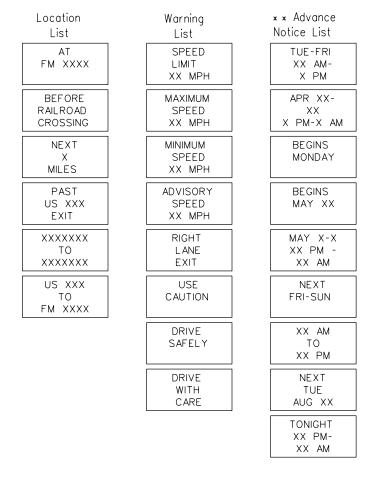
### FULL MATRIX PCMS SIGNS

- 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

Roadway

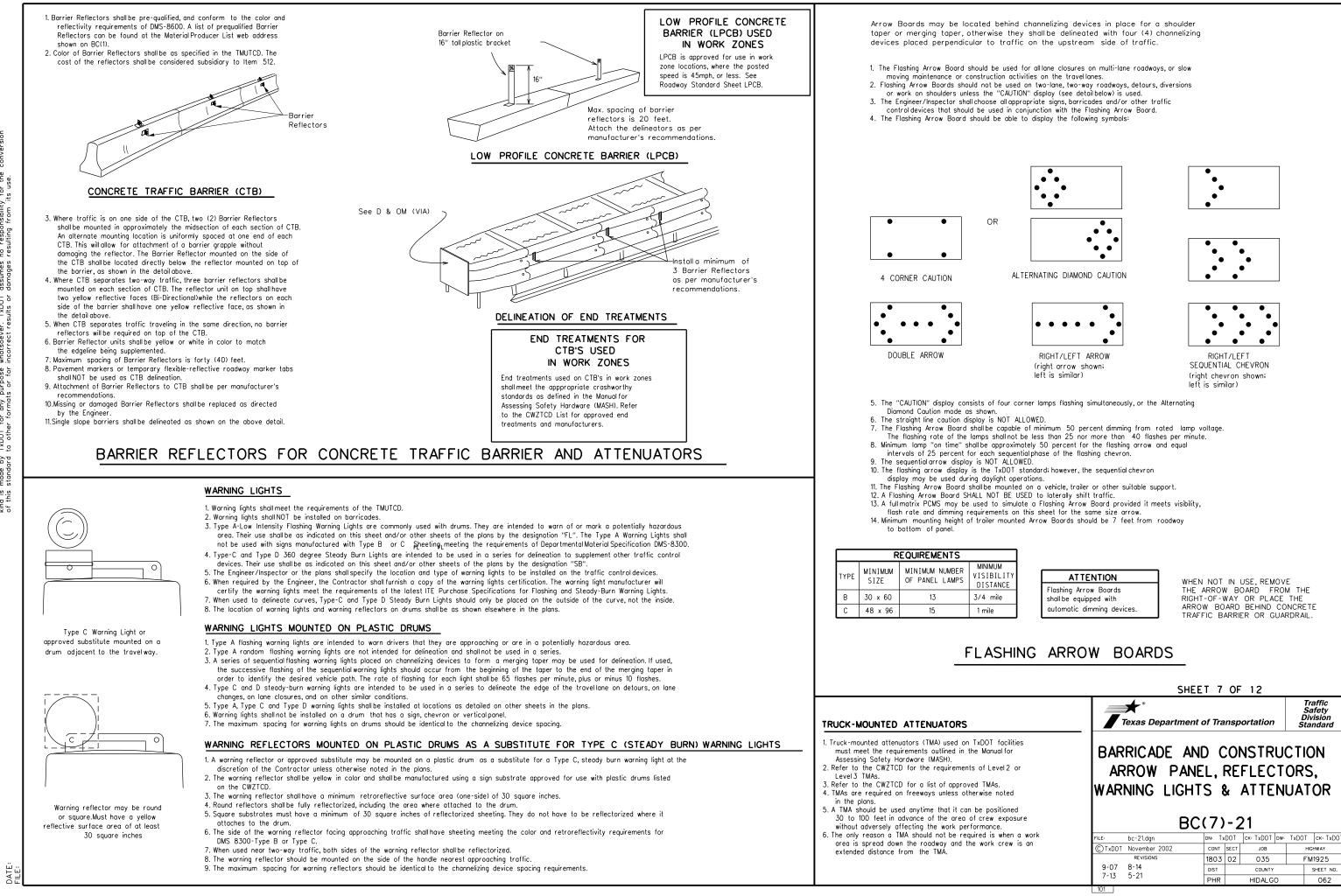
# ING ROADWORK ACTIVITIES

# Phase 2: Possible Component Lists



\* \* See Application Guidelines Note 6

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### GENERAL NOTES

- 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.
- 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).
- Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- The Contractor shall have a maximum of 24 hours to replace any plastic drums identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.

### GENERAL DESIGN REQUIREMENTS

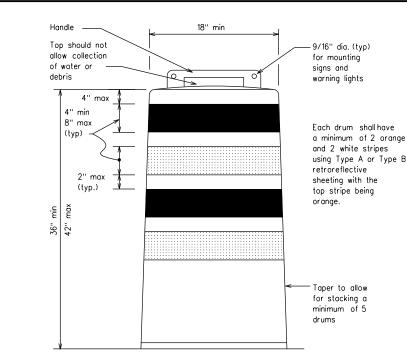
- Pre-qualified plastic drums shall meet the following requirements:
- Plastic drums shall be a two-piece design; the "body" of the drum shall be the top portion and the "base" shall be the bottom.
- 2. The body and base shall lock together in such a manner that the body separates from the base when 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.
- 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.
- Plastic drums shall be constructed of ultra-violet stabilized, orange, high-density polyethylene (HDPE) or other approved material.
   Drum body shall have a maximum unballasted weight of 11 lbs.
- 10.Drum and base shall be marked with manufacturer's name and model number.

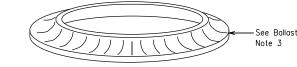
### RETROREFLECTIVE SHEETING

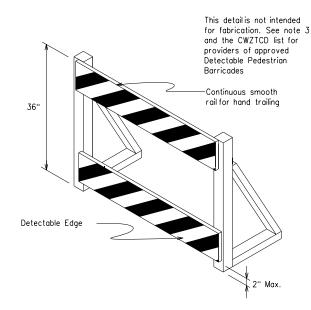
- The stripes used on drums shall be constructed of sheeting meeting the color and retroreflectivity requirements of Departmental Materials Specification DMS-8300, "Sign Face Materials." Type A or Type B reflective sheeting shall be supplied unless otherwise specified in the plans.
- 2. The sheeting 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.
- Bases with built-in ballast shall weigh between 40 lbs. and 50 lbs. Built-in ballast can be constructed of an integral crumb rubber base or a solid rubber base.
- Recycled truck tire sidewalls may be used for ballast on drums approved for this type of ballast on the CWZTCD list.
- 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

- 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.
- Where pedestrians with visual disabilities normally use the closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
- Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian path.
- 4. Tape, rope, or plastic chain strung between devices are not detectable, do not comply with the design standards in the "Americans with Disabilities Act Accessibility Guidelines (ADAAG)" and should not be used as a control for pedestrian movements.
- 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.

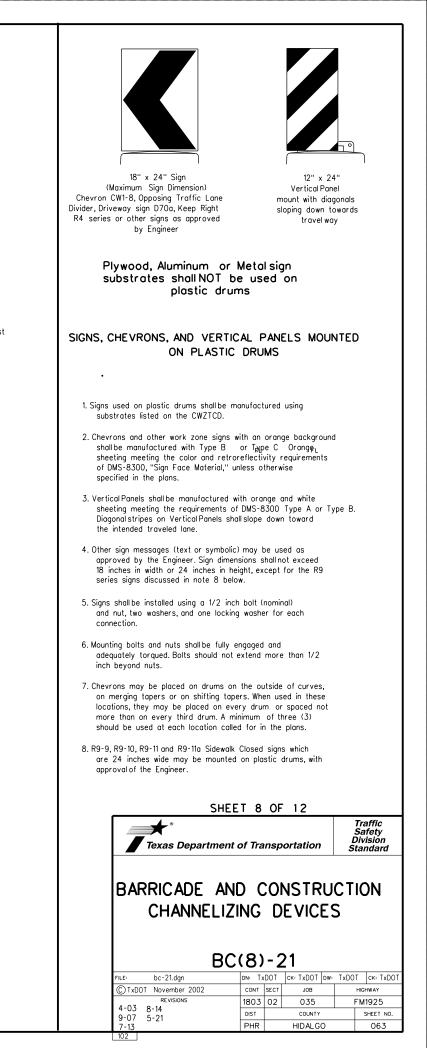
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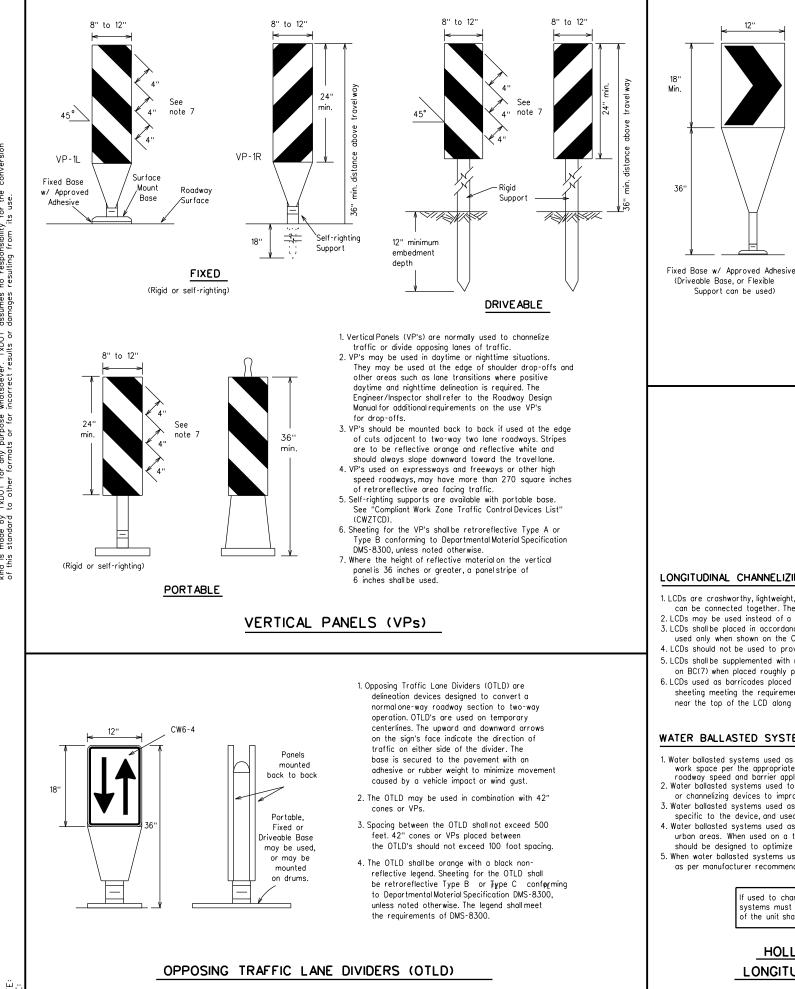
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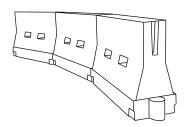
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- 1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.
- 2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators 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 or Flype C confrorming 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 travellanes.
- 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.

f 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 f the unit shall not be less than 32 inches in height.

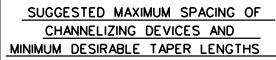
HOLLOW OR WATER BALLASTED SYSTEMS USED AS LONGITUDINAL CHANNELIZING DEVICES OR BARRIERS

### 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 Spacing Channeli Devi	g of zing	
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent
30	2	150'	165'	180'	30'	60'
35	$L = \frac{WS^2}{60}$	205'	225'	245'	35'	70'
40	60	265'	295'	320'	40'	80'
45		450'	495'	540'	45'	90'
50		500'	550'	600'	50'	100'
55	L=WS	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)

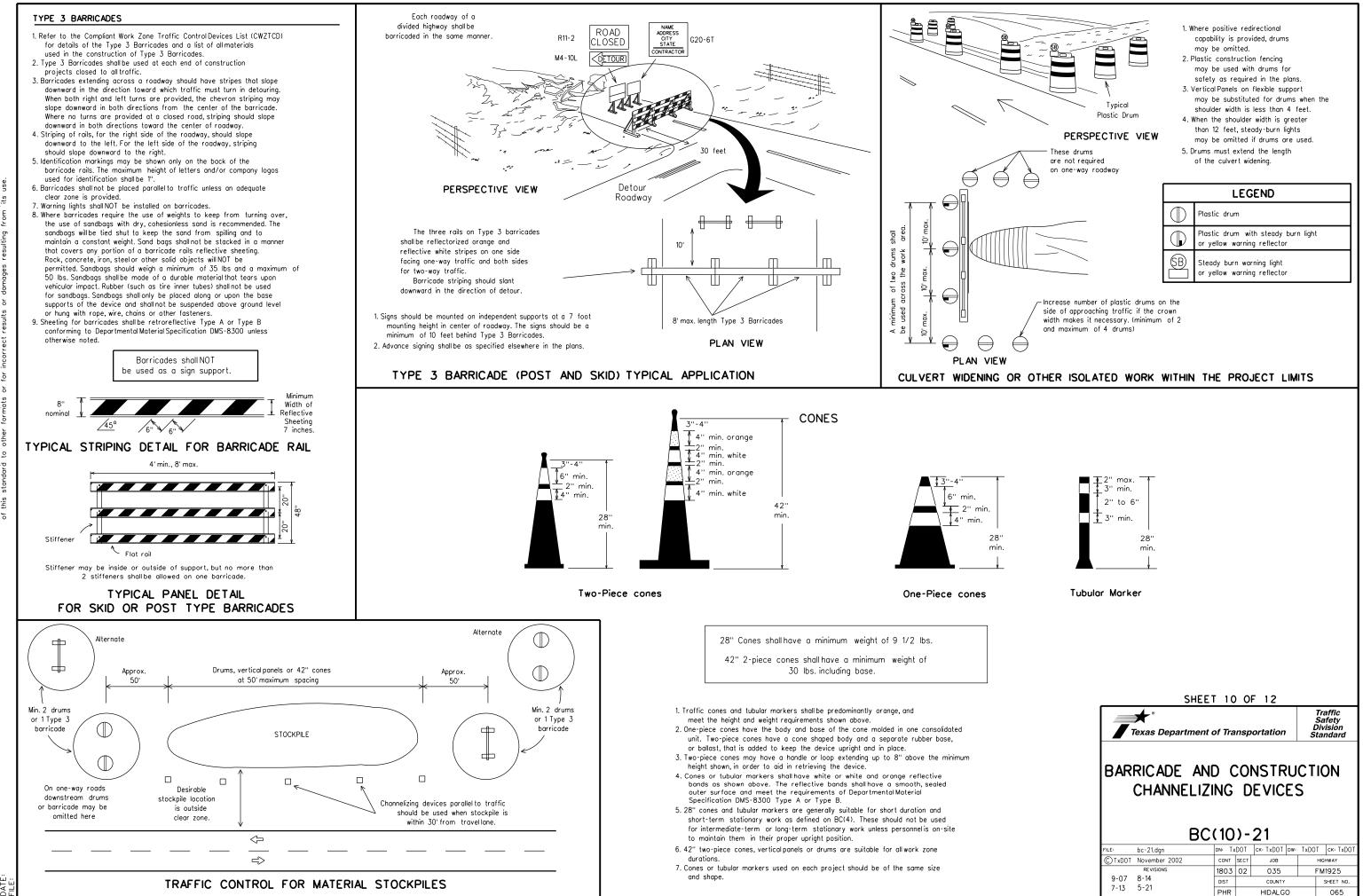


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### BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

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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 Manualon 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

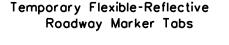
- 1. Removable prefabricated pavement markings shall meet the requirements of DMS-8241
- 2. Non-removable prefabricated pavement markings (foil back) shall meet the requirements of DMS-8240.

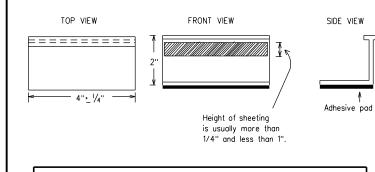
### MAINTAINING WORK ZONE PAVEMENT MARKINGS

- 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.





### 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 auidemarks shall be bituminous material hot applied or butylrubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designated as:

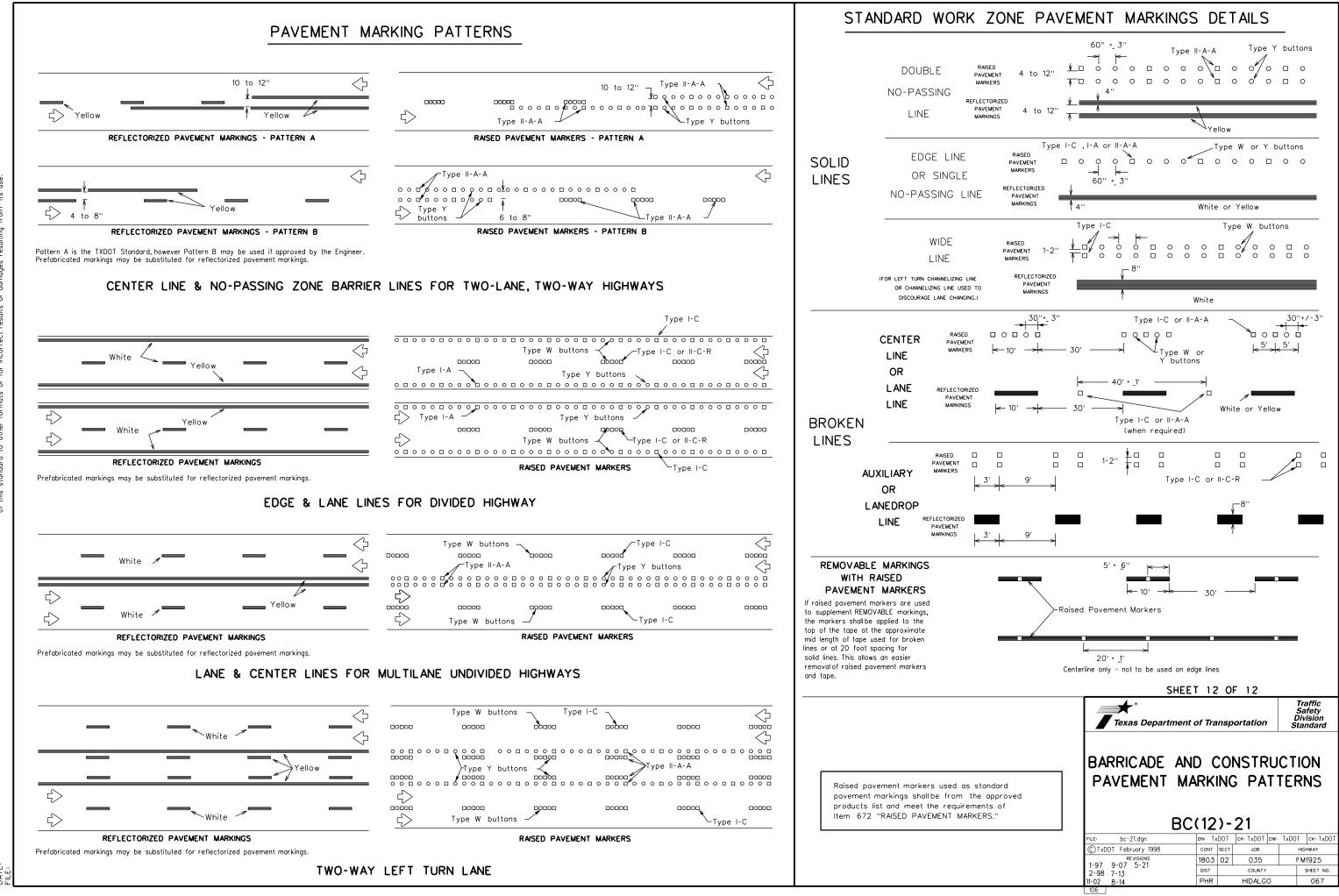
YELLOW - (two amber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body).

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

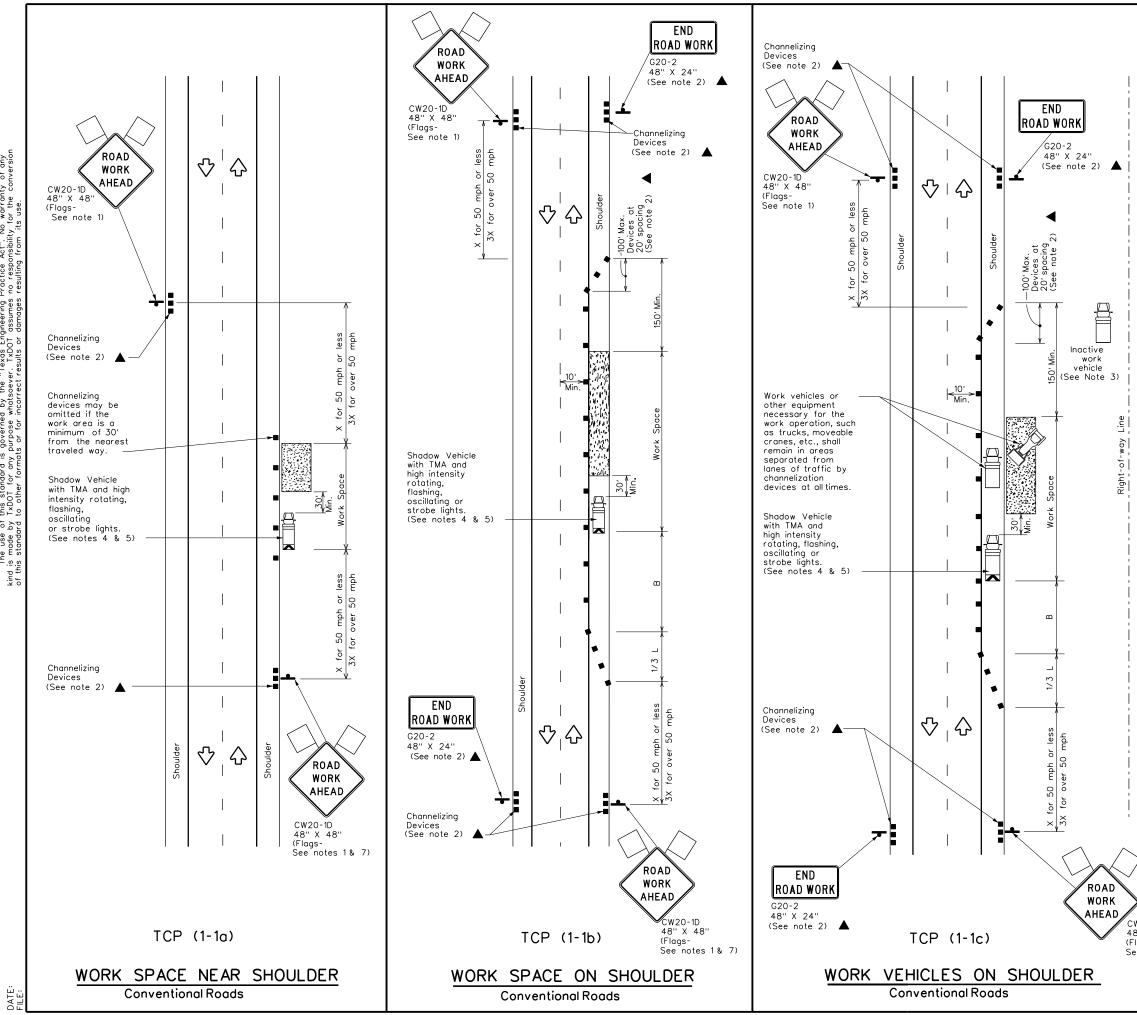
A list of preguglified reflective raised pavement markers. non-reflective traffic buttons, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC(1).

SHEE	T 11	0	F 12							
Texas Department	t of Tra	nsp	ortation	Ĺ	Traffic Safety Division tandard					
BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS BC(11)-21										
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© TxDOT February 1998	CONT	SECT	JOB		HIGHWAY					
REVISIONS 2-98 9-07 5-21	1803	02	035		FM1925					
1-02 7-13	DIST		COUNTY		SHEET NO.					
11-02 8-14	PHR		HIDALGO		066					

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LEGEND										
	Type 3 Barricade		Channelizing Devices							
□‡	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)							
F	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)							
<b>_</b>	Sign	$\sim$	Traffic Flow							
$\bigtriangleup$	Flag	Lo	Flagger							

Posted Speed *	Formula	D Tapi	Minimum Desirable Taper Lengths <u>* *</u> 10' 11' 12'			Suggested Maximum Spacing of Channelizing Devices On a On a		Suggested Longitudinal Buffer Space "B"
			Offset	Offset	Taper	Tangent	Distance	U
30	ws <sup>2</sup>	150'	165'	180'	30'	60'	120'	90'
35	$L = \frac{WS}{60}$	205'	225'	245'	35'	70'	160'	120'
40	80	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55	L=WS	550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	4 10 '
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

\* Conventional Roads Only

**\* \*** Taper lengths have been rounded off.

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

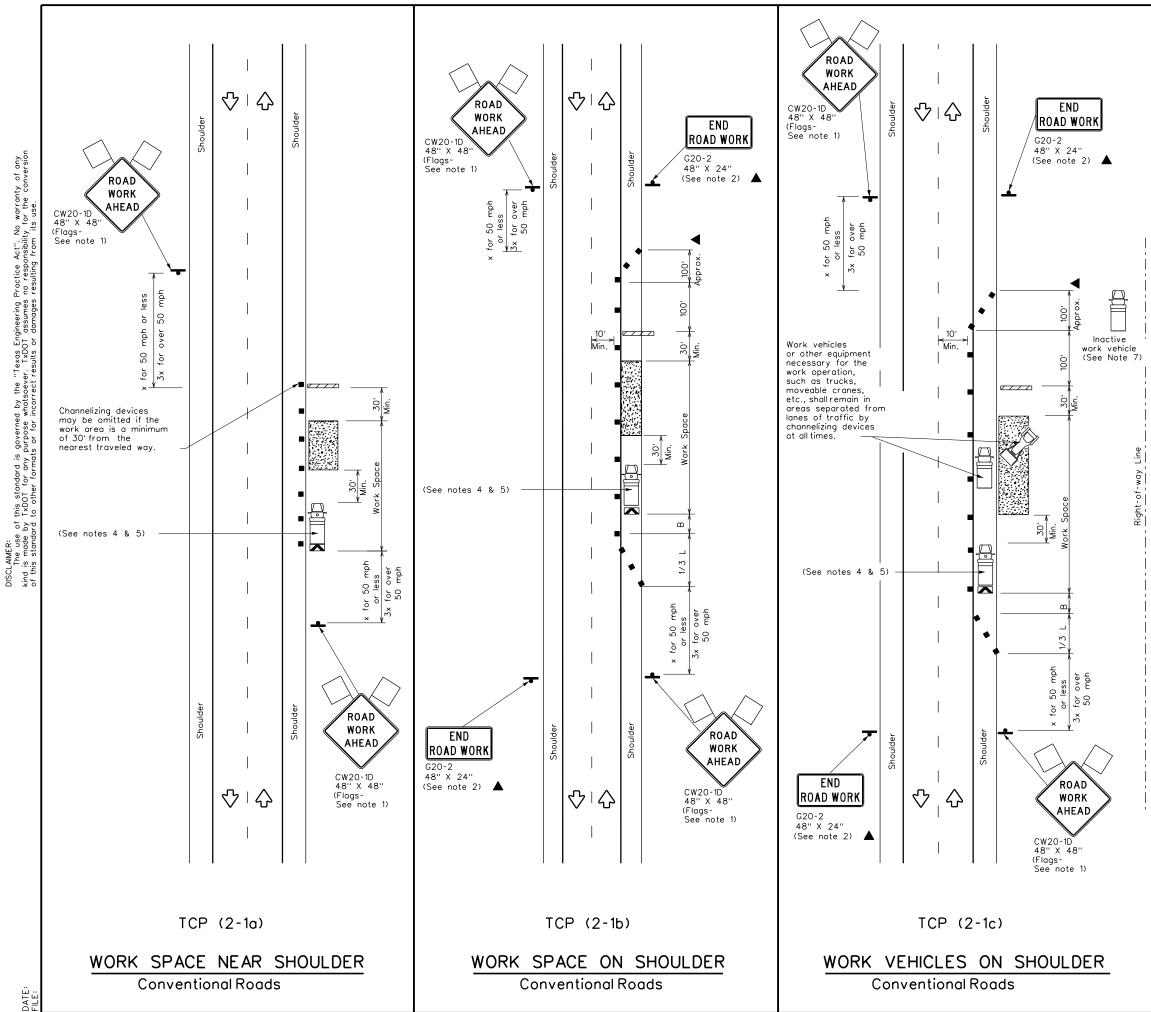
TYPICAL USAGE										
MOBILE	MOBILE SHORT SHORT TERM INTERMEDIATE LONG TERM DURATION STATIONARY TERM STATIONARY STATIONARY									
	1	1								

### GENERAL NOTES

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. Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
- 4. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- 5. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces. 6. See TCP(5-1)for shoulder work on divided highways, expressways and
- freeways. 7. CW21-5 "SHOULDER WORK" signs may be used in place of CW20-1D
- "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

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CW20-1D 48'' X 48'' (Flags-	TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK TCP(1-1)-18									
See notes 1 & 7)	FILE:	tcp1	-1-18.dgn		DN:		Ск:	DW:		СК:
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	1-97	2-18			PHR		HID	ALGO		068
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LEGEND										
<u>~ / / / /</u>	Type 3 Barricade	88	Channelizing Devices							
	Heavy Work Vehicle	Κ	Truck Mounted Attenuator (TMA)							
	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)							
÷	Sign	2	Traffic Flow							
$\bigtriangledown$	Flag	LO	Flagger							

Posted Speed	peed		Minimum Desirable Formula Taper Lengths * *			Suggested Spacing Channeli Devi	g of zing	Minimum Sign Spacing ''X''	Suggested Longitudinal Buffer Space
×		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"	
30	<u>ws<sup>2</sup></u>	150'	165'	180'	30'	60'	120'	90'	
35	$L = \frac{WS}{60}$	205'	225'	245'	35'	70'	160'	120'	
40	80	265'	295'	320'	40'	80'	240'	155'	
45		450'	495'	540'	45'	90'	320'	195'	
50		500'	550'	600'	50'	100'	400'	240'	
55	L=WS	550'	605'	660'	55'	110'	500'	295'	
60		600'	660'	720'	60'	120'	600'	350'	
65		650'	715'	780'	65'	130'	700'	4 10 '	
70		700'	770'	840'	70'	140'	800'	475'	
75		750'	825'	900'	75'	150'	900'	540'	

Conventional Roads Only

\* Taper lengths have been rounded off.

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

TYPICAL USAGE										
MOBILE	MOBILE SHORT SHORT TERM INTERMEDIATE LONG TERM DURATION STATIONARY TERM STATIONARY STATIONARY									
	1	1	1	✓						

### GENERAL NOTES

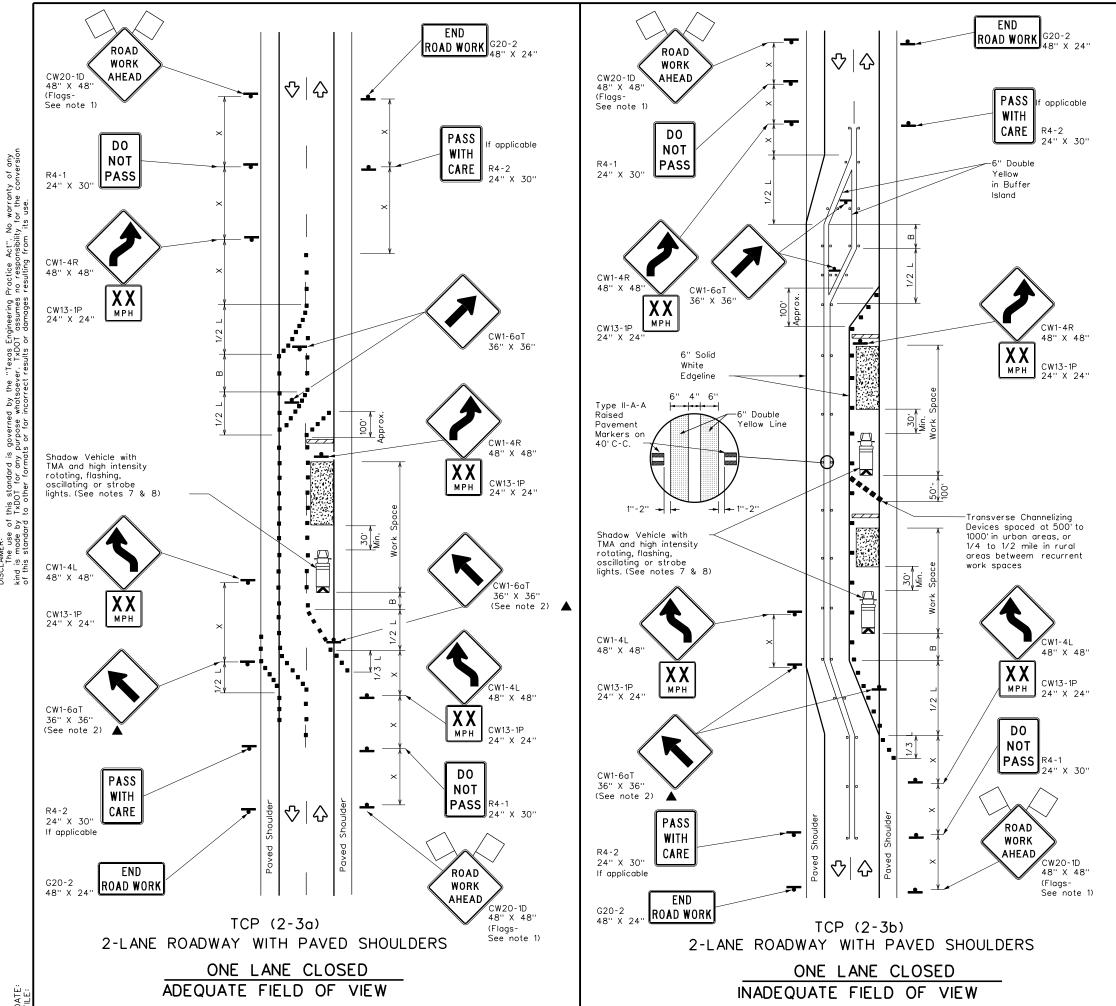
1. Flags attached to signs where shown, are REQUIRED.

- 2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated 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 ( CONVEN	••••	AL RO	A	• •	
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		) - 18		TXDOT	CK: TXDOT
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	LEGEND						
<u>e / / / / /</u>	Type 3 Barricade		Channelizing Devices				
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)				
	Trailer Mounted Flashing Arrow Board	••••	Raised Pavement Markers Ty II-AA				
-	Sign	$\Diamond$	Traffic Flow				
$\langle \langle$	Flag	LO	Flagger				

Posted Formula Speed		x x		Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space	
×		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	Distance	"B"
30	ws²	150'	165'	180'	30'	60'	120'	90'
35	$L = \frac{WS}{60}$	205'	225'	245'	35'	70'	160'	120'
40	00	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55	L=WS	550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	4 10'
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	
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	I FFICAL USAGE						
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
				TCP(2-3b)ONLY			
			✓	~			
-							

## GENERAL NOTES

. Flags attached to signs where shown, are REQUIRED.

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.

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.

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.

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.

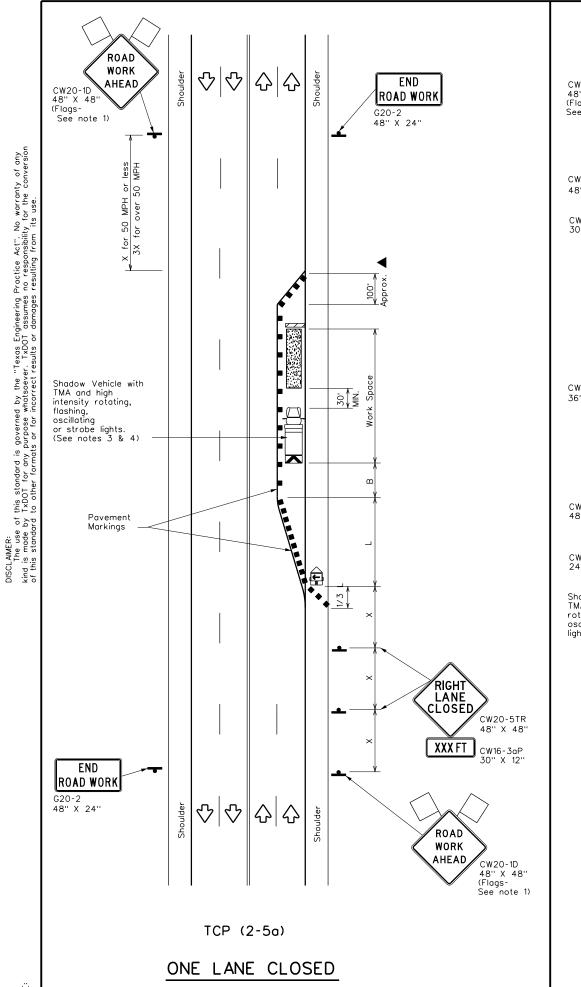
Conflicting pavement marking shall be removed for long term projects.

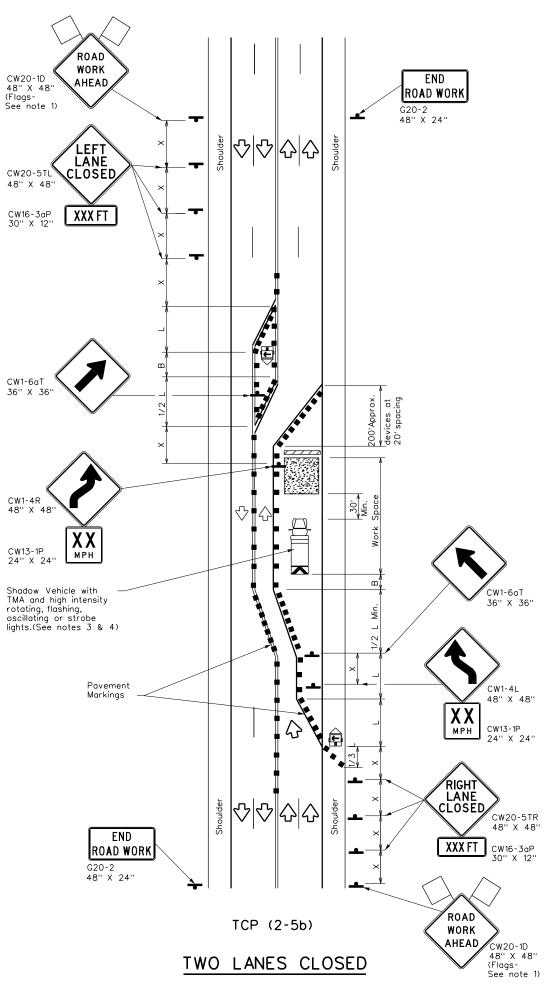
. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place,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

## CP (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.

Traffic Safety Division Standard							
TRAFFIC CONTROL PLAN TRAFFIC SHIFTS ON TWO-LANE ROADS TCP(2-3)-23							
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LEGEND						
~~~~~	Type 3 Barricade		Channelizing Devices			
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)			
(F)	Trailer Mounted Flashing Arrow Board	M	Portable Changeable Message Sign (PCMS)			
-	Sign	$\Diamond$	Traffic Flow			
$\bigtriangleup$	Flag	LO	Flagger			

Posted Speed *	Formula	D Tap	Minimum esirable er Lengt * *		Suggested Spacing Channeli Devi	g of zing	Minimum Sign Spacing ''X''	Suggested Longitudinal Buffer Space "B"
		10' Offset	Offset	Offset	On a Taper	Tangent	Distance	U
30	ws²	150'	165'	180'	30'	60'	120'	90'
35	$L = \frac{WS}{60}$	205'	225'	245'	35'	70'	160'	120'
40	60	265'	295'	320'	40'	80'	240'	155'
45		450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55	L=WS	550'	605'	660'	55'	110'	500'	295'
60	L 113	600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	4 10 '
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		
			✓	1		

## GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.

 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.
 A Shadow Vehicle with a TMA should be used anytime it can be approved to the 100 feet in advance of the area of engineer escention.

- positioned 30 to 100 feet in advance of the area of crew eposure 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 substitutued for the Shadow Vehicle and TMA. 4. Additional Shadow Vehicles with TMAs may be positioned in each
- closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.
- 5. The downstream taper is optional. When used, it should be 100 feet approximately per lane, with channelizing devices spaced at 20 feet.

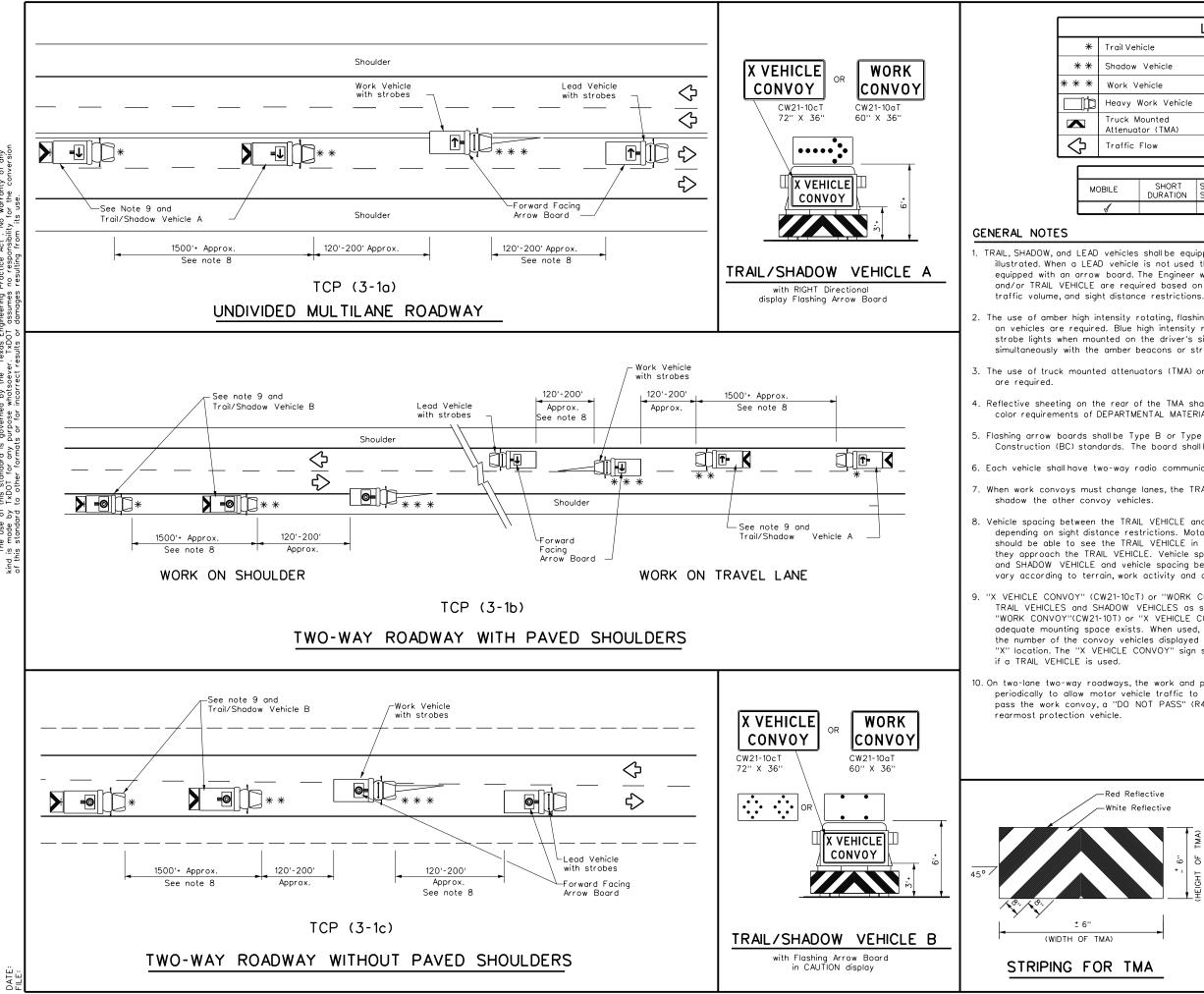
## TCP (2-5a)

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

## TCP (2-5b)

7. Conflicting pavement markings shall be removed for long-term projects.

Texas Departmen	ation	Traffic Operations Division Standard				
TRAFFIC CONTROL PLAN LONG TERM LANE CLOSURES MULTILANE CONVENTIONAL RDS.						
MULTILANE CO				RDS.		
				RDS.		
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LEC	LEGEND					
Trail Vehicle		ARROW BOARD DISPLAY				
Shadow Vehicle		ARROW BOARD DISPLAT				
Work Vehicle		RIGHT Directional				
Heavy Work Vehicle	∎	LEFT Directional				
Truck Mounted Attenuator (TMA)	₽	Double Arrow				
Traffic Flow	•	CAUTION (Alternating Diamond or 4 Corner Flash)				
		ACE				

ILE	SHORT DURATION		INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY			
1							

1. TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used the WORK vehicle must be equipped with an arrow board. The Engineer will determine if the LEAD VEHICLE and/or TRAIL VEHICLE are required based on prevailing roadway conditions,

2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights.

3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE and TRAIL VEHICLE

4. Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION DMS 8300, Type A.

5. Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the vehicle.

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

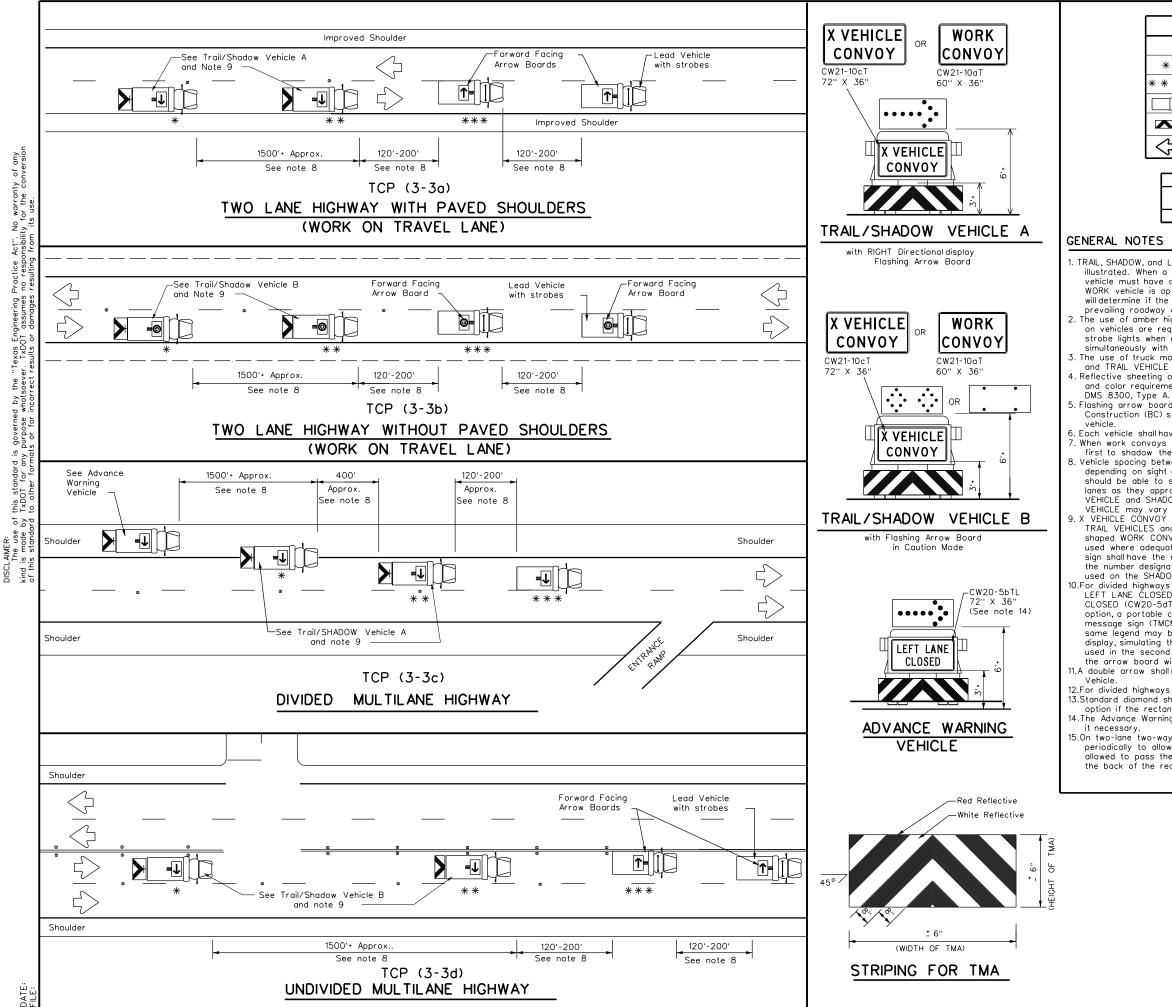
7. When work convoys must change lanes, the TRAIL VEHICLE should change lanes first to

8. Vehicle spacing between the TRAIL VEHICLE and the SHADOW VEHICLE will vary depending on sight distance restrictions. Motorists approaching the work convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors.

9. "X VEHICLE CONVOY" (CW21-10cT) or "WORK CONVOY" (CW21-10aT) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" X 48" diamond shaped "WORK CONVOY"(CW21-10T) or "X VEHICLE CONVOY" (CW21-10bT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The "X VEHICLE CONVOY" sign shall not be used on the SHADOW VEHICLE

10. On two-lane two-way roadways, the work and protection vehicles should pullover periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a "DO NOT PASS" (R4-1) sign should be placed on the back of the

Red Reflective White Reflective	Texas Department of	of Transp	ortation	Traffic Operations Division Standard		
tent of twa	TRAFFIC CONTROL PLAN MOBILE OPERATIONS UNDIVIDED HIGHWAYS					
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A)	FILE: tcp3-1.dgn	DN: TXDOT	CK: TXDOT DW:	TXDOT CK: TXDOT		
	© TxDOT December 1985	CONT SECT	JOB	HIGHWAY		
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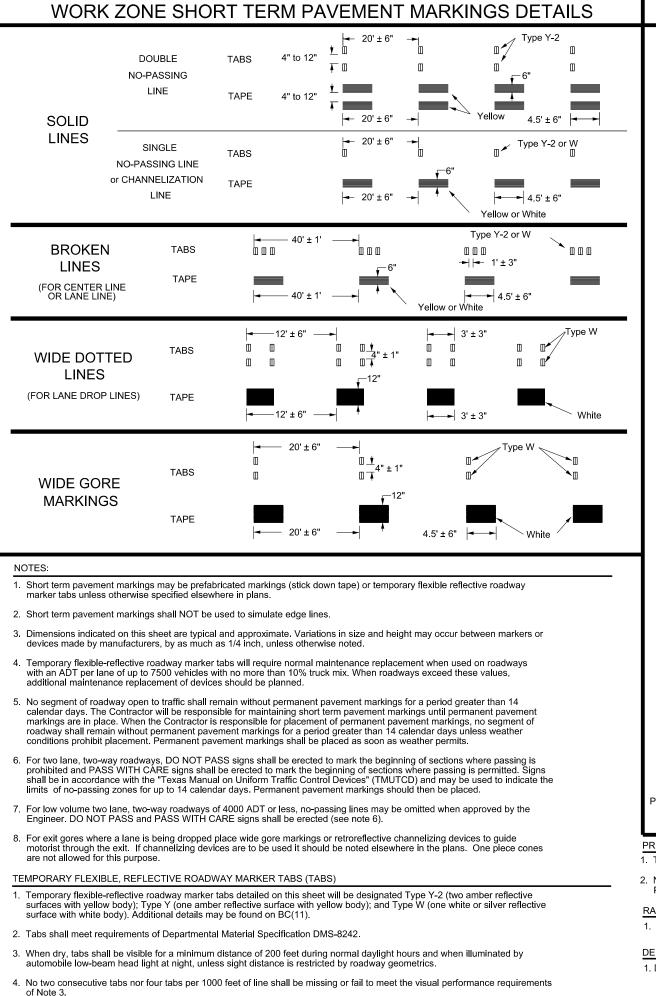
	LI	EGEND	
*	Trail Vehicle		ARROW BOARD DISPLAY
* *	Shadow Vehicle		ARROW BOARD DISPLAT
* * *	Work Vehicle	₽	RIGHT Directional
	Heavy Work Vehicle	F	LEFT Directional
	Truck Mounted Attenuator (TMA)	<b>₩</b>	Double Arrow
$\diamondsuit$	Traffic Flow	Ø	CAUTION (Alternating Diamond or 4 Corner Flash)

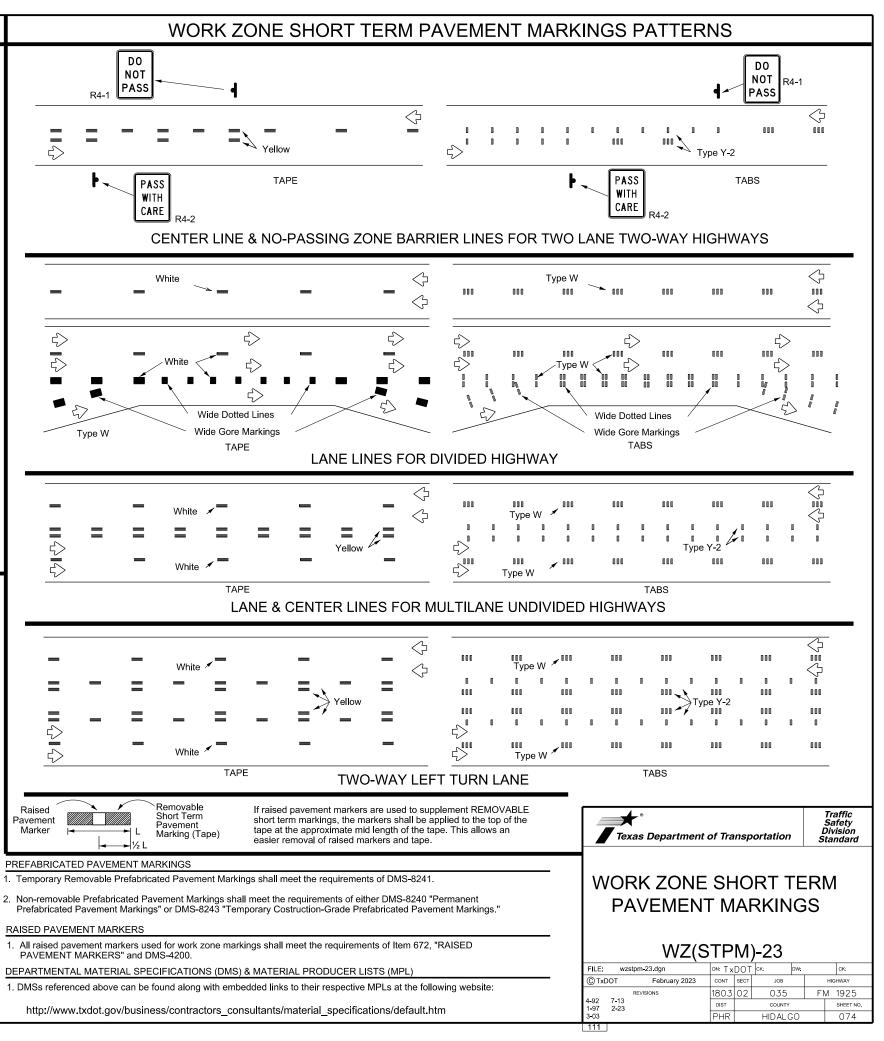
		TYPICAL US	SAGE	
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
1				

1. TRAIL, SHADOW, and LEAD vehicles shall be equipped with arrow boards as illustrated. When a LEAD vehicle is not used on two way roads the WORK vehicle must have an arrow board. For divided roadways, the arrow board on the WORK vehicle is optional based on the type of work being performed. The Engineer will determine if the LEAD vehicle and/or TRAIL vehicle are required based on prevailing roadway conditions, traffic volume, and sight distance restrictions. 2. The use of amber high intensity rotating, flashing, oscillating, or strobe lights on vehicles are required. Blue high intensity rotating, flashing, oscillating, or strobe lights when mounted on the driver's side of the vehicle may be operated simultaneously with the amber beacons or strobe lights. 3. The use of truck mounted attenuators (TMA) on the SHADOW VEHICLE, ADVANCE WARNING and TRAIL VEHICLE are required. 4. Reflective sheeting on the rear of the TMA shall meet or exceed the reflectivity and color requirements of DEPARTMENTAL MATERIAL SPECIFICATION 5. Flashing arrow boards shall be Type B or Type C as per the Barricade and Construction (BC) standards. The board shall be controlled from inside the Centre I. Standard Control of C depending on sight distance restrictions. Motorists approaching the convoy should be able to see the TRAIL VEHICLE in time to slow down and/or change lanes as they approach the TRAIL VEHICLE. Vehicle spacing between the WORK VEHICLE and SHADOW VEHICLE and vehicle spacing between WORK VEHICLE and LEAD VEHICLE may vary according to terrain, work activity and other factors. X VEHICLE CONVOY (CW21-10cT) or WORK CONVOY (CW21-10aT) signs shall be used on TRAIL VEHICLES and SHADOW VEHICLES as shown. As an option 48" x 48" diamond shaped WORK CONVOY (CW21-10T) or X VEHICLE CONVOY (CW21-10bT) signs may be used where adequate mounting space exists. When used, the X VEHICLE CONVOY sign shall have the number of the convoy vehicles displayed on the sign in the number designation "X" location. The X VEHICLE CONVOY sign shall not be used on the SHADOW VEHICLE if a TRAIL VEHICLE is used. 10.For divided highways with two or three lanes in one direction, the appropriate LEFT LANE CLOSED (CW20-5bTL), RIGHT LANE CLOSED (CW20-5bTR), or CENTER LANE CLOSED (CW20-5dT) sign should be used on the Advance Warning Vehicle. As an option, a portable changeable message sign (PCMS) or truck mounted changeable message sign (TMCMS) with a minimum character height of 12", and displaying the same legend may be substituted for these signs. An appropriate directional arrow display, simulating the size and legibility of the flashing arrow board may be used in the second phase of the PCMS/TMCMS message. When this is done, the arrow board will not be required on the Advance Warning Vehicle. 11.A double arrow shall not be displayed on the arrow board on the Advance Warning 12.For divided highways with three or four lanes in each direction, use TCP(3-2). 13.Standard diamond shape versions of the CW20-5 series signs may be used as an option if the rectangular signs shown are not available. 14. The Advance Warning Vehicle may straddle the edgeline when Shoulder width makes 15.On two-lane two-way roadways, the work and protection vehicles should pullover

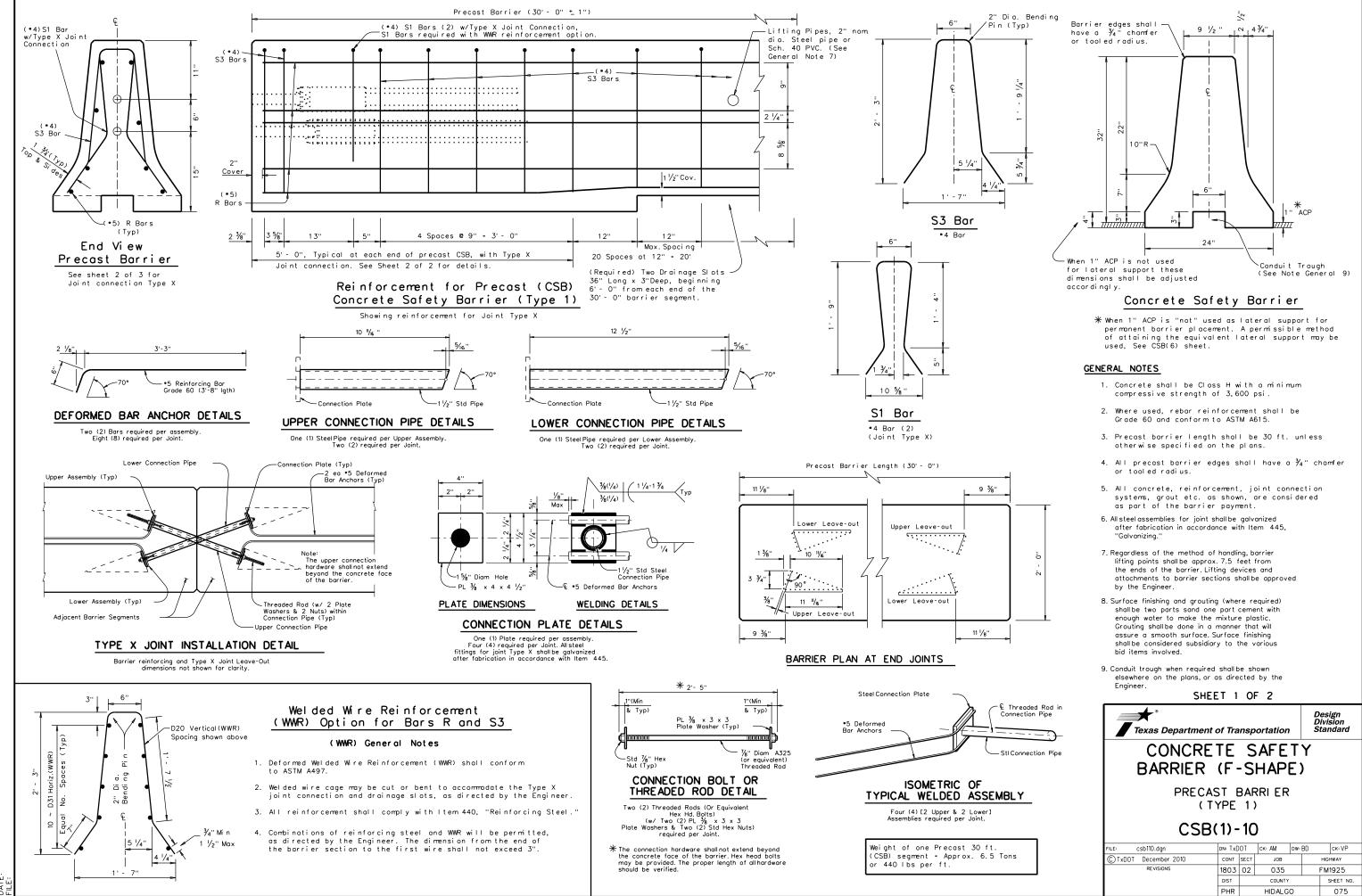
periodically to allow motor vehicle traffic to pass. If motorists are not allowed to pass the work convoy, a DO NOT PASS (R4-1) sign should be placed on the back of the rearmost protection vehicle.

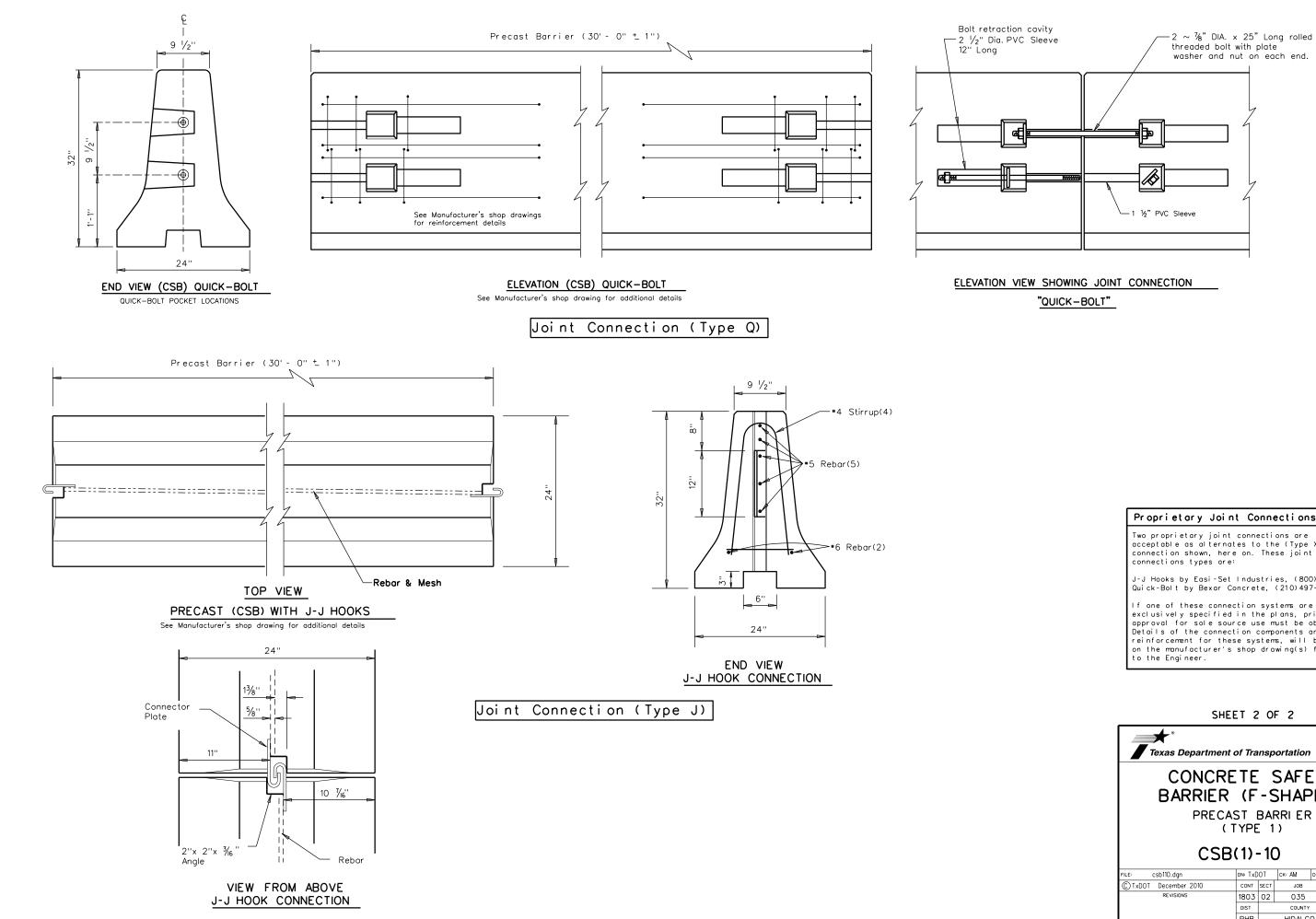
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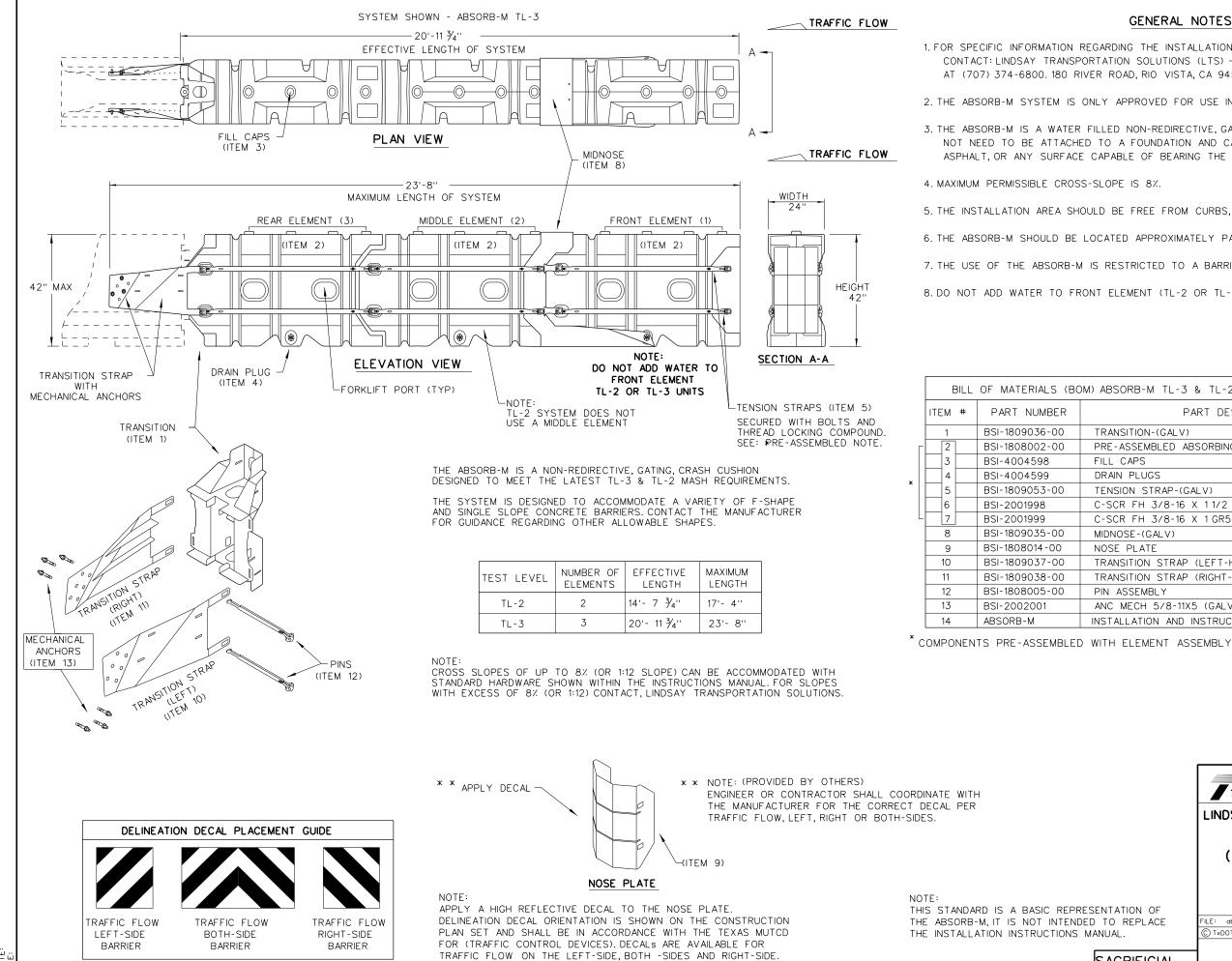
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Proprietary Joint Connections (CSB)
Two proprietary joint connections are acceptable as alternates to the (Type X) connection shown, here on. These joint connections types are:
J–J Hooks by Easi–Set Industries, (800)547–4045 Quick–Bolt by Bexar Concrete, (210)497–3773
If one of these connection systems are exclusively specified in the plans, prior approval for sole source use must be obtained. Details of the connection components and barrier reinforcement for these systems, will be shown on the manufacturer's shop drawing(s) furnished to the Engineer.

Texas Department	of Tra	nsp	ortatior	1	Di	esign vision andard
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© TxDOT December 2010	CONT	SECT	JOB		I	HIGHWAY
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THIS STANDARD IS A BASIC REPRESENTATION OF THE ABSORB-M, IT IS NOT INTENDED TO REPLACE THE INSTALLATION INSTRUCTIONS MANUAL.

## GENERAL NOTES

1. FOR SPECIFIC INFORMATION REGARDING THE INSTALLATION AND TECHNICAL GUIDANCE, CONTACT: LINDSAY TRANSPORTATION SOLUTIONS (LTS) - BARRIER SYSTEMS, INC AT (707) 374-6800. 180 RIVER ROAD, RIO VISTA, CA 94571

2. THE ABSORB-M SYSTEM IS ONLY APPROVED FOR USE IN (TEMPORARY WORK ZONE) LOCATIONS.

3. THE ABSORB-M IS A WATER FILLED NON-REDIRECTIVE, GATING CRASH CUSHION THAT DOES NOT NEED TO BE ATTACHED TO A FOUNDATION AND CAN BE INSTALLED ON TOP OF CONCRETE, ASPHALT, OR ANY SURFACE CAPABLE OF BEARING THE WEIGHT OF THE SYSTEM.

5. THE INSTALLATION AREA SHOULD BE FREE FROM CURBS, ELEVATED OBJECTS, OR DEPRESSIONS.

6. THE ABSORB-M SHOULD BE LOCATED APPROXIMATELY PARALLEL WITH THE BARRIER.

7. THE USE OF THE ABSORB-M IS RESTRICTED TO A BARRIER HEIGHT OF UP TO 42 INCHES.

8. DO NOT ADD WATER TO FRONT ELEMENT (TL-2 OR TL-3 UNIT).

QTY	QTY
TL-2 SYSTEM	TL-3 SYSTEM
1	1
2	3
8	12
2	3
8	12
8	12
8	12
1	1
1	1
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1	1
8	10
6	6
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NO.	PHASE	NUMBER	LOCATION	STA	LEVEL	(UNI/BI)	PROPOSED MATERIAL	PROPOSED THICKNESS	DESCRIPTION	WIDTH	HEIGHT	LENGTH	INSTALL	REMOVE	MOVE/ RESET	FROM LOC.*	N	w	N W	N W	
1	TCP PHASE I	II 37	TERRY RD.	273+78.45	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	x	x				1		x	
2	TCP PHASE I	II 38	LEUCADIA AVE.	286+57.29	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	X	X				1		x	_
2	TCP PHASE I	II 38	LEUCADIA AVE.	287+68.82	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	×	×						×	
3	TCP PHASE I	II 38	TOWER RD.	298+78.82	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	×	×						×	
3	TCP PHASE I	II 38	TOWER RD.	300+11.56	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	×	×				1		x	_
4	TCP PHASE I	II 39	BRUSHLINE RD.	313+91.57	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	×	×						×	
4	TCP PHASE I	II 39	BRUSHLINE RD.	315+41.57	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	×	×						×	
5	TCP PHASE I	II 39	HOMERITO (SMALL BUSINESS)	318+41.57	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	Х	X						х	
5	TCP PHASE I	II 39	HOMERITO (SMALL BUSINESS)	319+91.57	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	×	×						×	
6	TCP PHASE I	II 40	SHARP RD.	328+61.57	3	UNIDIRECTIONAL	N/A	N/A	CONCRETE SAFETY BARRIER	24''	3'-6''	21'	X	X						x	
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LEGEND:

L=LOW MAINTENANCE R=REUSABLE S=SACRIFICIAL N=NARROW W=WIDE

FOR DEFINITIONS SEE THE "CRASH CUSHION CATEGORIZATION CHART.PDF" AT THE DESIGN DIVISION (ROADWAY STANDARDS) WEBSITE. USE QUICK LINKS TO ACCESS ATTENUATORS / CRASH CUSHIONS SECTION.

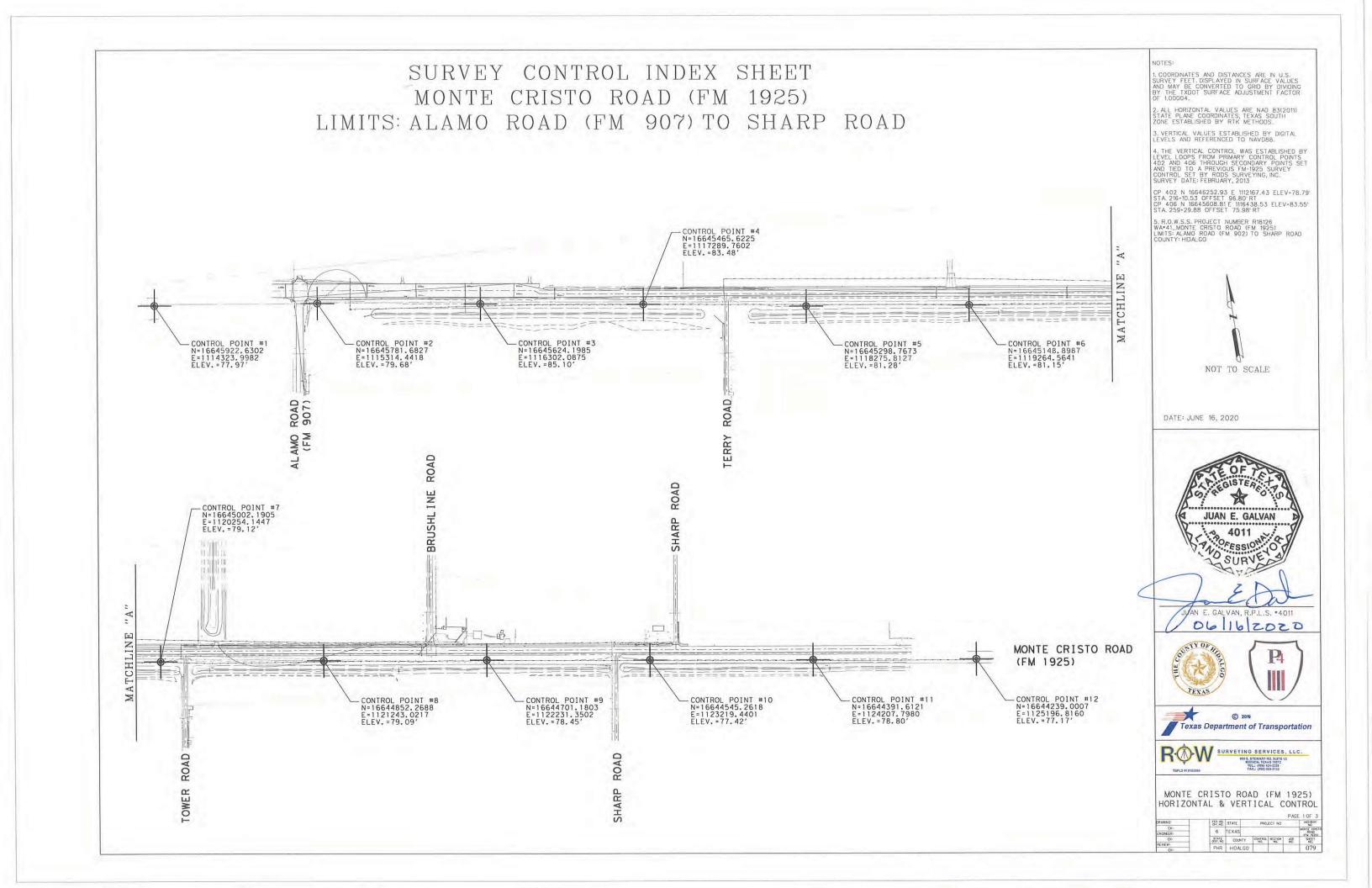
http://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/rdwylse.htm

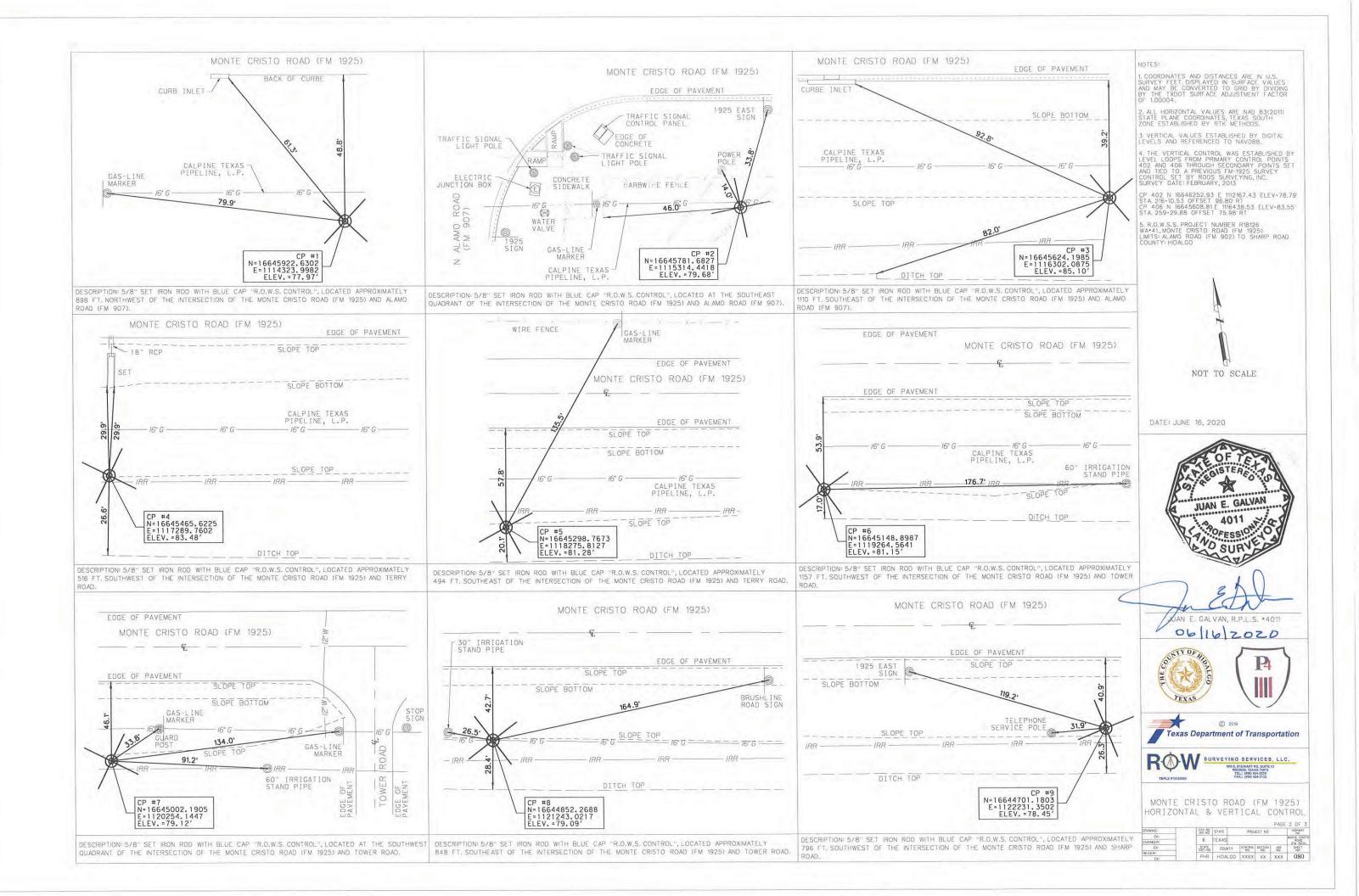


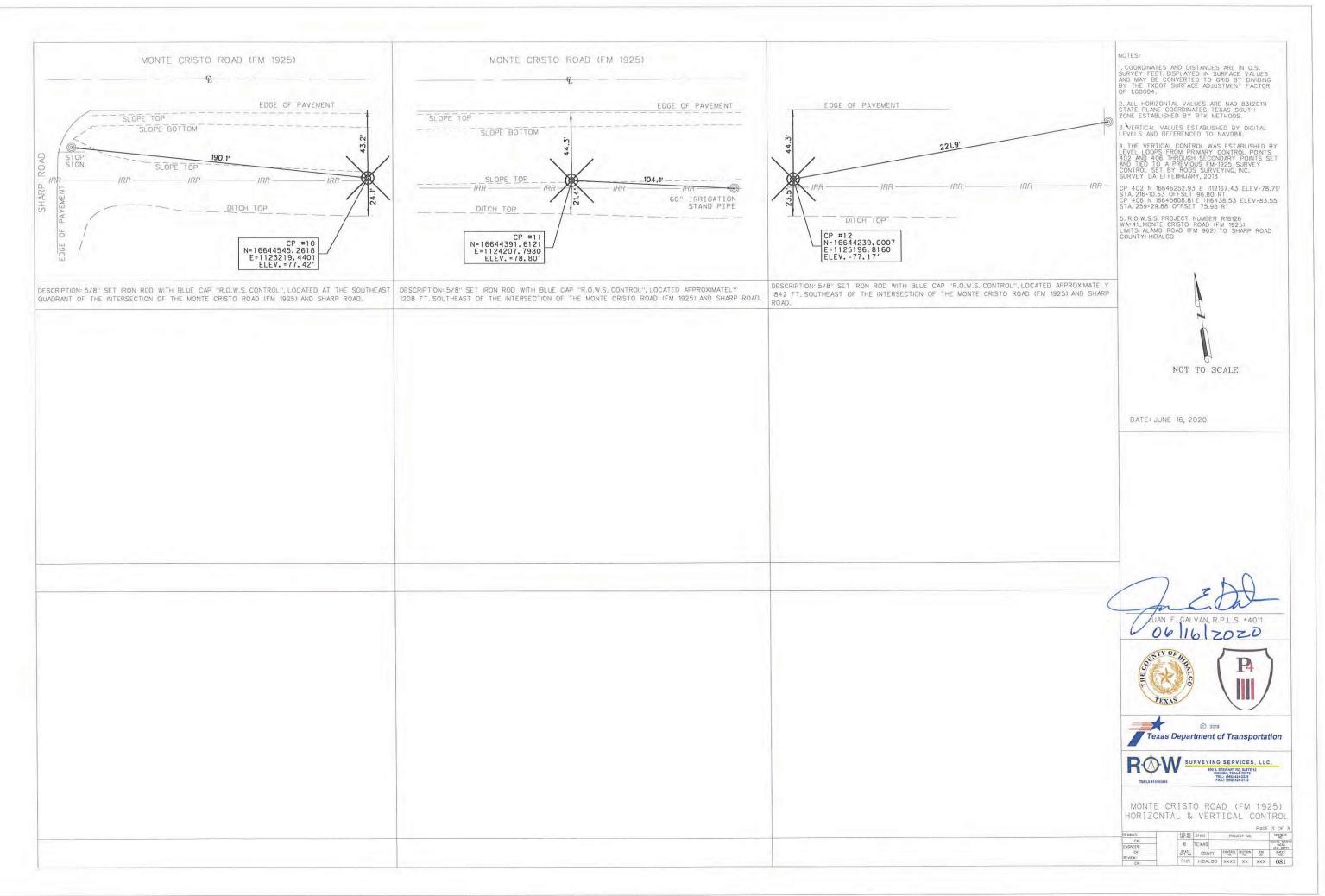
# CRASH CUSHION SUMMARY SHEET



FILE: CCSS.dgn	DN: TxD0	Т	СК:		СК:
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# FM 1925 ALIGNMENT

## Chain NEWCLPROP contains: 6000 6001 CUR NEWCLPROP1 CUR NEWCLPROP2 6002

## Beginning chain NEWCLPROP description

 Point 6000
 X
 1,112,913.8841 Y
 16,646,234.6426 Sto
 223.50.91

 Course from 6000 to 6001 S
 81°
 08' 52.01" E
 Dist 7,743.3258

 Point 6001
 X
 1,120,564.9755 Y
 16,645,043.0496 Sto
 300.94.24

 Course from 6001 to PC
 NEWCLPROP1 S
 81°
 05' 27.37" E
 Dist 3,186.2396

Curve Data

Curve NEWCLPROF	P1			
P.I. Station	334•80.18 X	1,123,910.0689	Y	16,644,518.6798
Delta -	2° 03' 41.16" (RT)			
Degree •	0° 30' 58.24''			
Tongent -	199.7039			
Length -	399.3647			
Rodius -	11,100.0000			
External •	1.7963			
Long Chord •	399.3432			
Mid. Ord. 🛛	1.7960			
P.C. Station	332•80.48 X	1,123,712.7743	5 Y	16,644,549.6072
P.T. Station	336•79.84 X	1,124,106.1233	Y	16,644,480.6754
C.C.	X 1,121,993.75	43 Y 16	,633,583	5.5245
Back S	81° 05' 27.37" E			
Aheod S	79° 01' 46.21" E			
Chord Bear • S	80° 03' 36.79" E			

	Curve Data
Curve NEWCLPROP2	
P.I. Station 338+85.05 X	1,124,307.5850 Y 16,644,441.6229
Delto • 2° 07' 05.80" (LT)	•••••••••••••••••••••••••••••••••••••••
Degree • 0° 30' 58.24"	
Tangent 205.2119	
Length • 410.3770	
Radius • 11,100,0000	
External = 1.8968	
Long Chord • 410.3537	
Mid. Ord. 1.8964	
P.C. Station 336+79.84 X	1,124,106.1233 Y 16.644,480.6754
P.T. Station 340.90.22 X	1,124,510.3525 Y 16,644,410.0435
C.C. X 1,126,218.	
Back • S 79° 01' 46.21'' E	4323 1 10,030,377.0203
Ahead • S 81° 08' 52.01'' E	
Chord Bear = S 80° 05' 19.11'' E	
Child Deal - 5 00 05 19.11 E	
Course from PT NEWCLPROP2 to 6002	S 81° 08' 52.01'' E Dist 1,624.2602

## Point 6002 X 1,126,115.2654 Y 16,644,160.0919 Sto 357+14.48

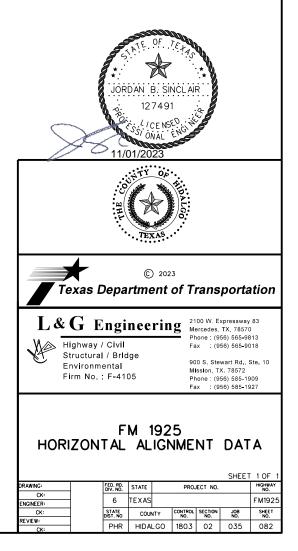
Ending chain NEWCLPROP description

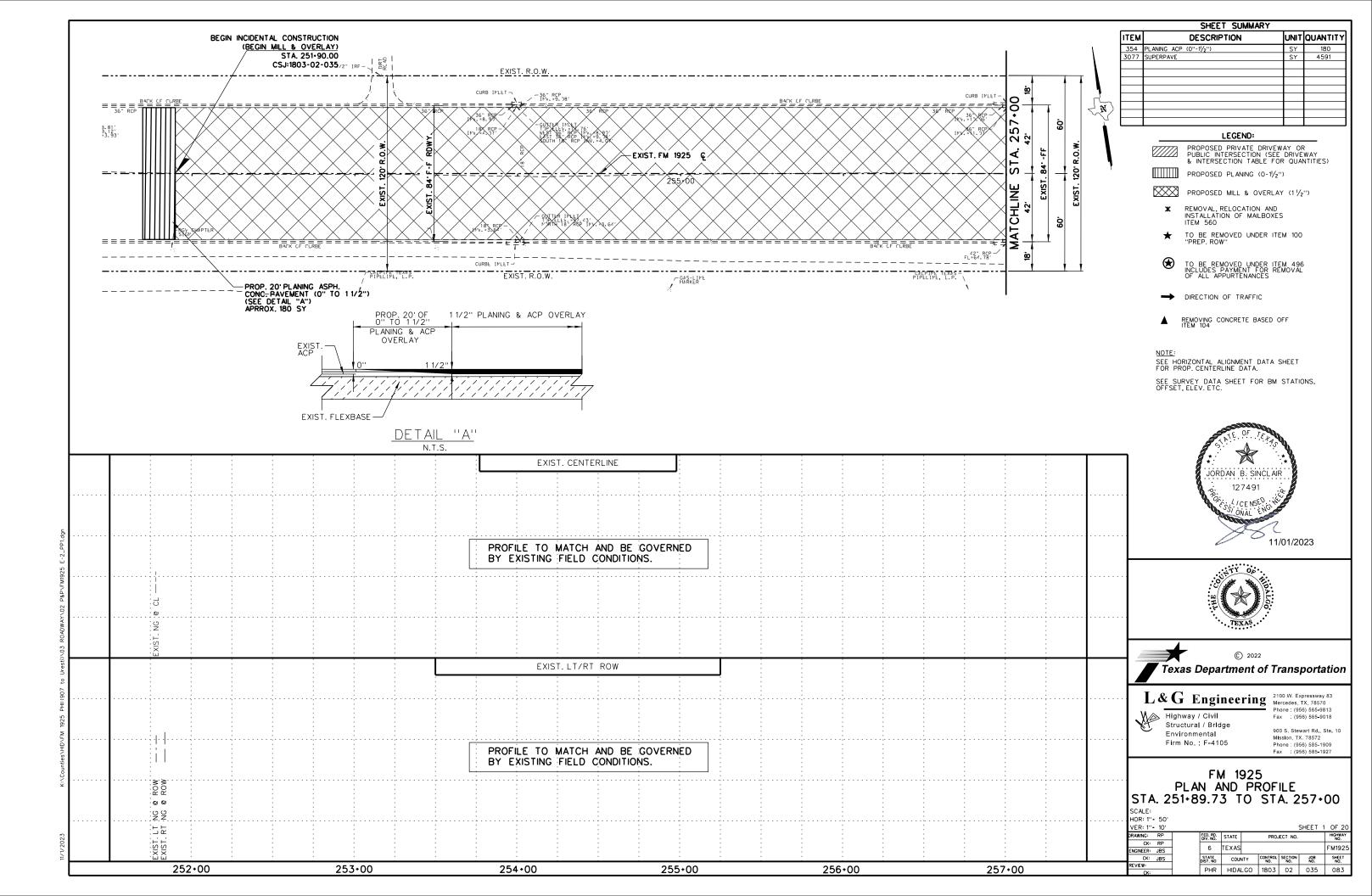
# Beginning chain BRUSHLINE\_CL description

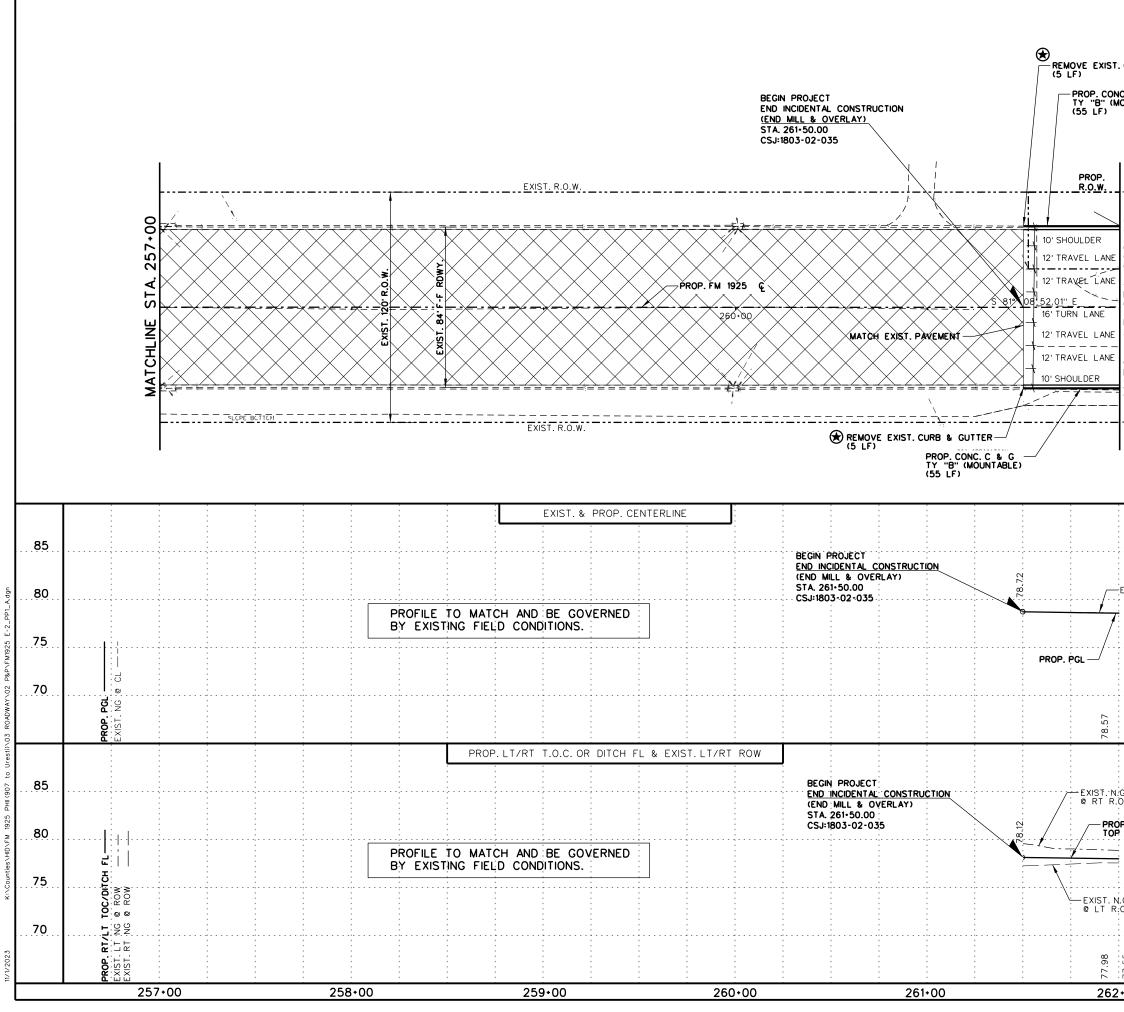
Point 50	×	1,121,907.1282	Y 16,644,832.656	5 Sta 10+00.00
Course from 5	50 to 51N 8°	58'46.50" E D	ist 200.0002	
Point 51	X 1,121,9	38.3447 Y 16,	645,030.2055 Sto	12+00.00
Ending choin Bf		description		

Point 55	x	1,123,389.9856 Y	16,644,600.2069 Sta	10.00.00
Course from 55 to	o 56 N 8	• 47'56.98" E Dist	200.0004	
Point 56	x	1,123,420.5799 Y	16,644,797.8534 Sta	12•00.00

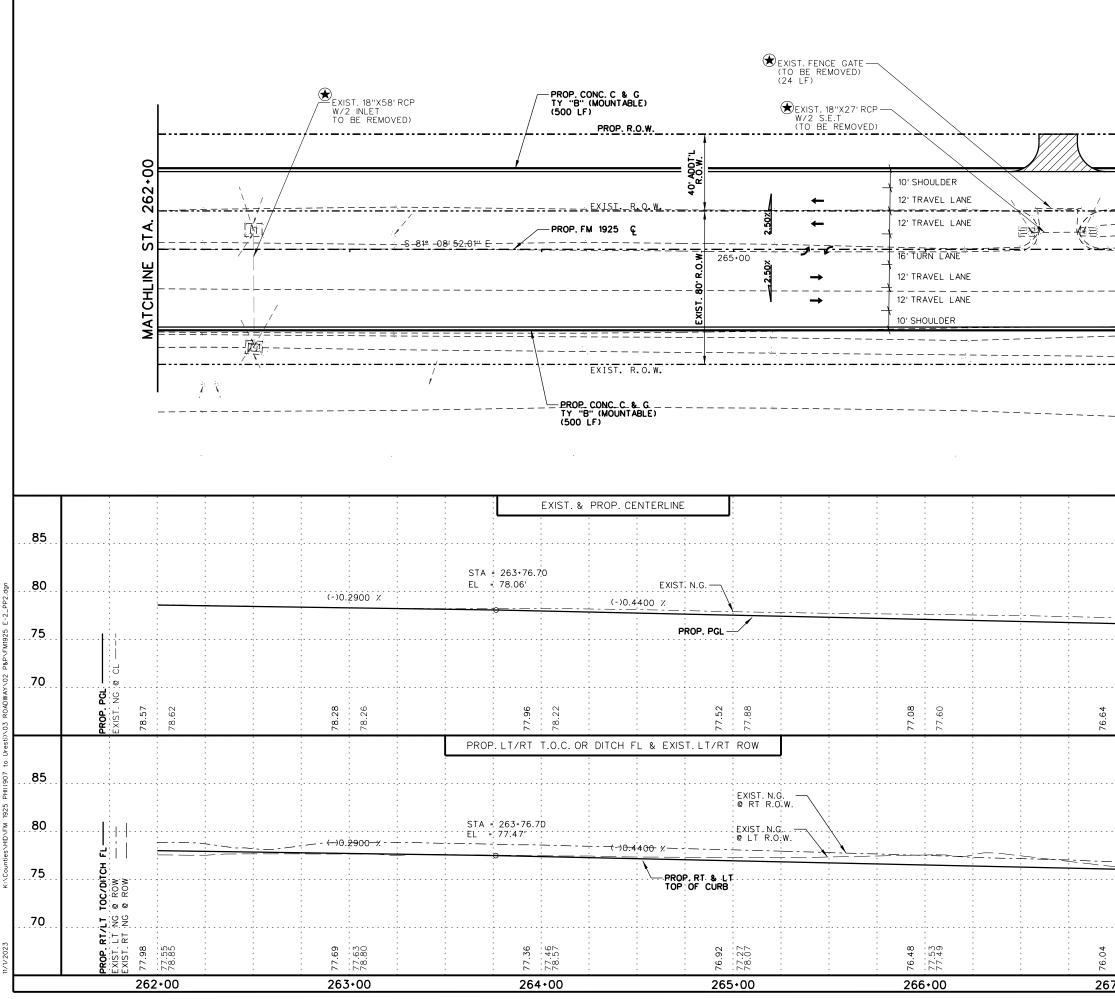
Ending chain SHARP\_CL description



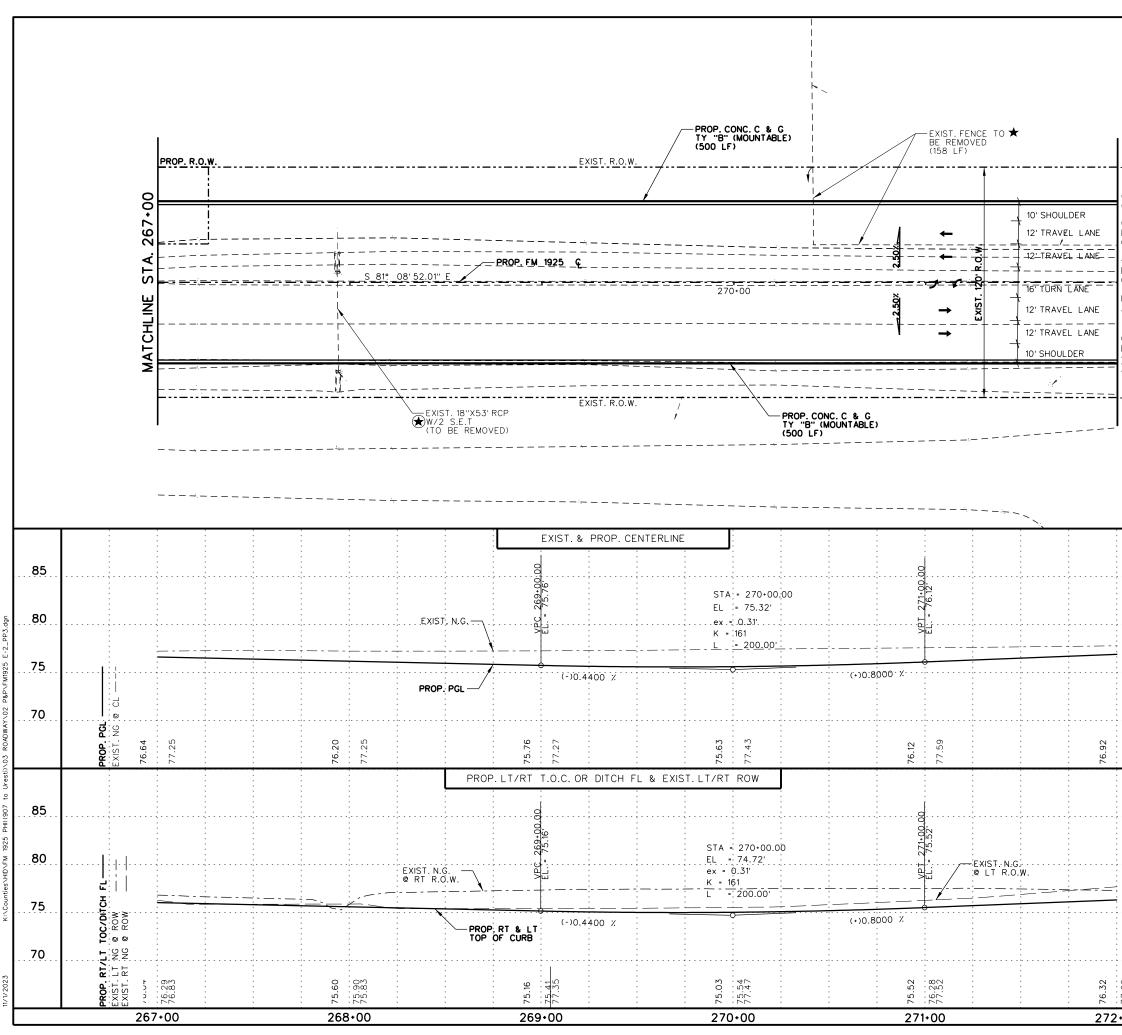




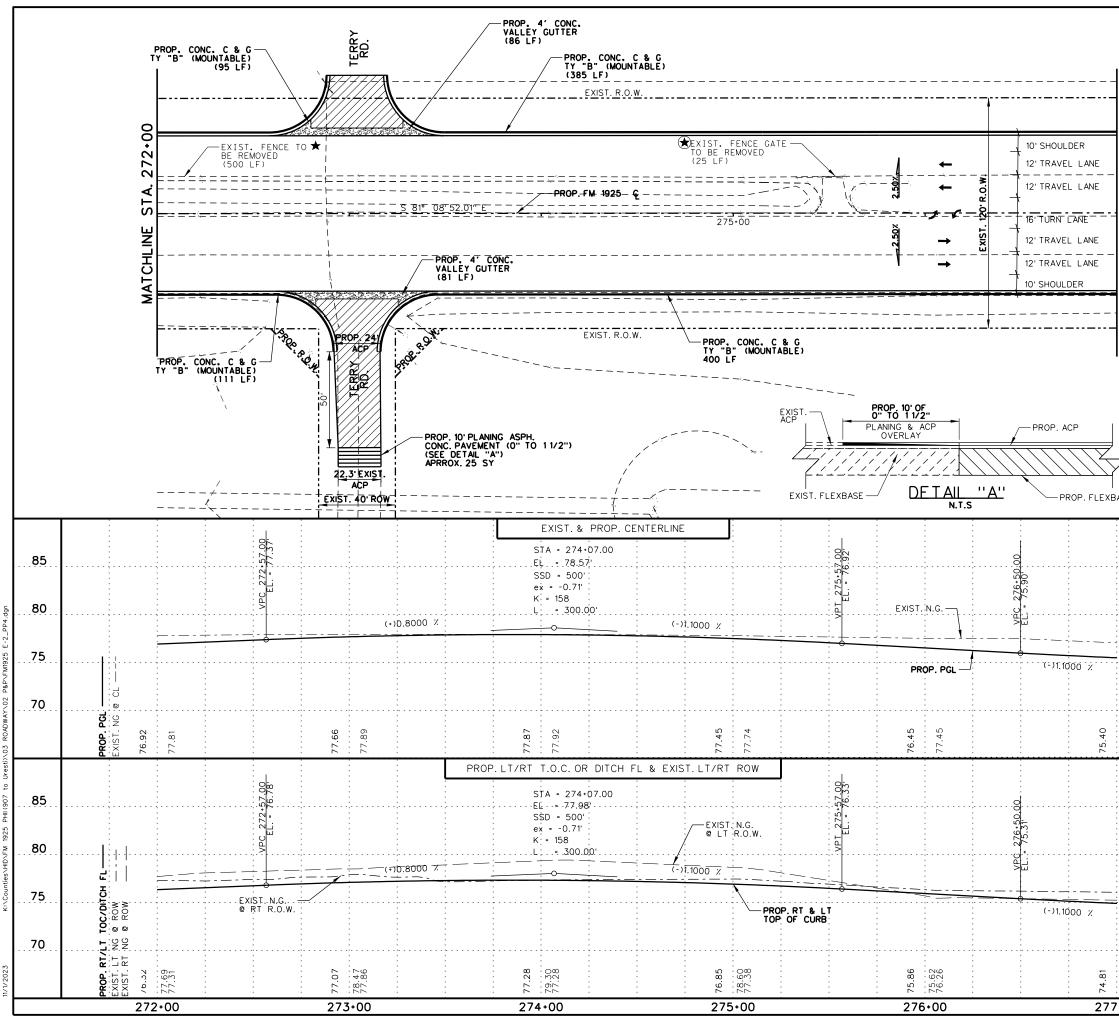
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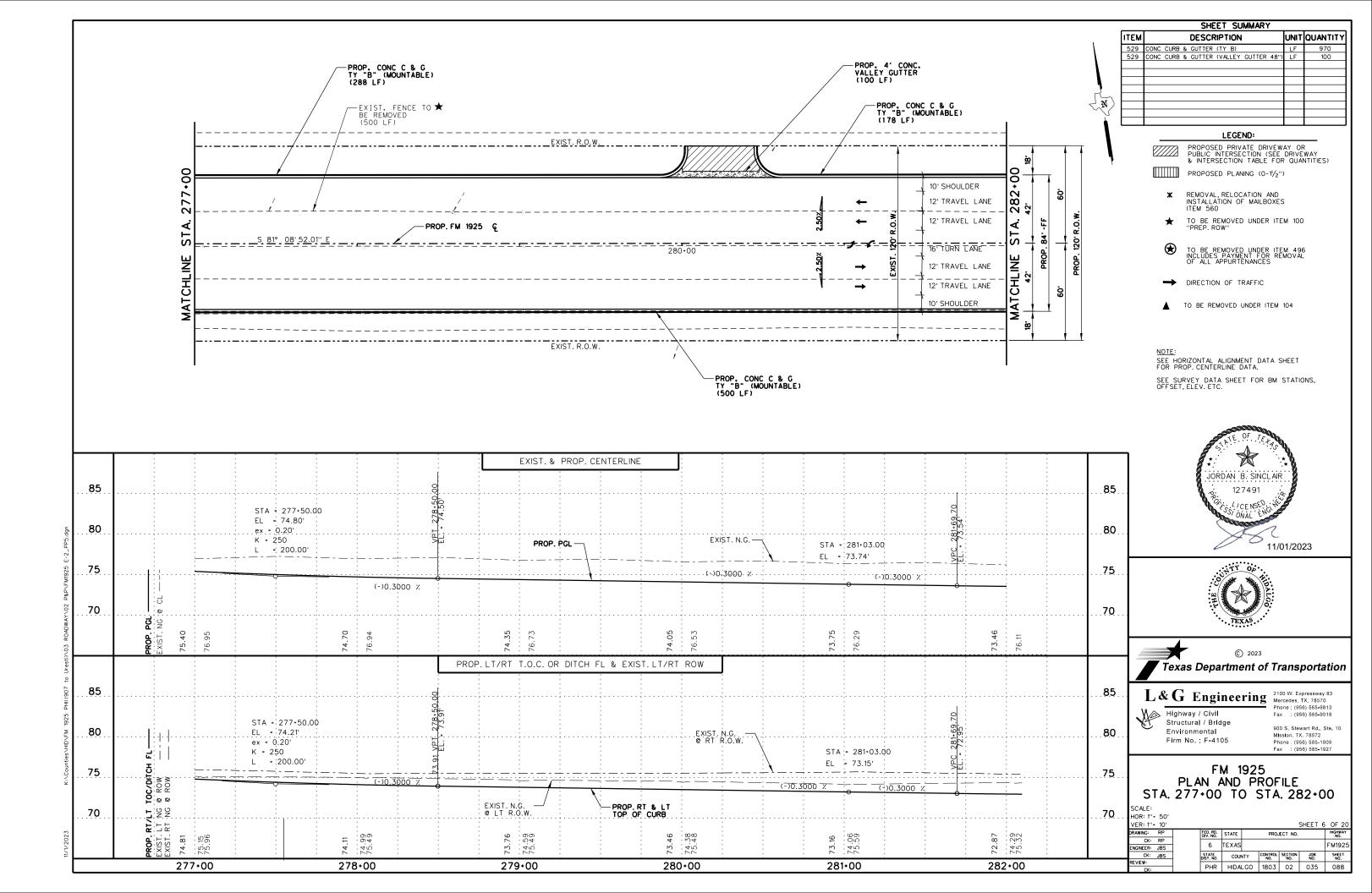
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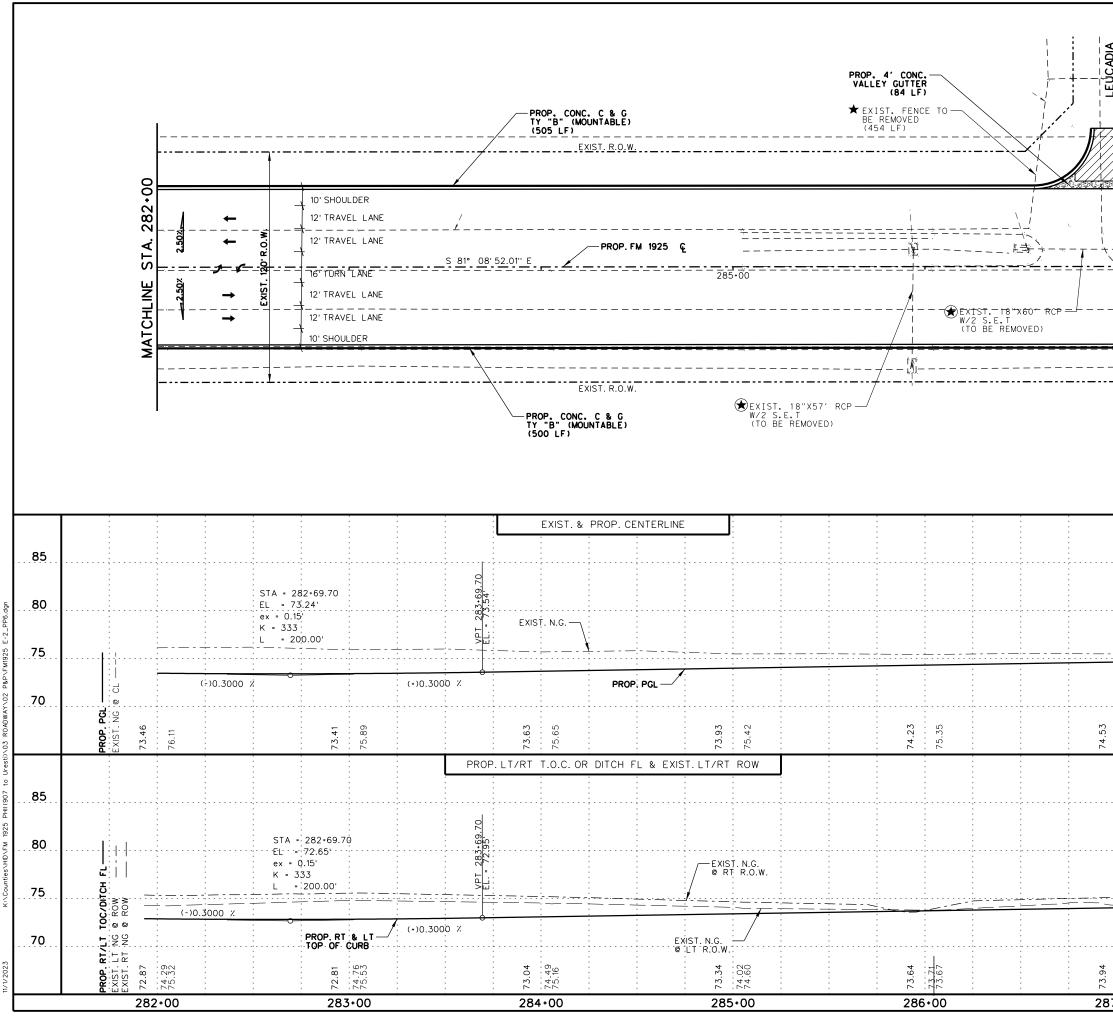


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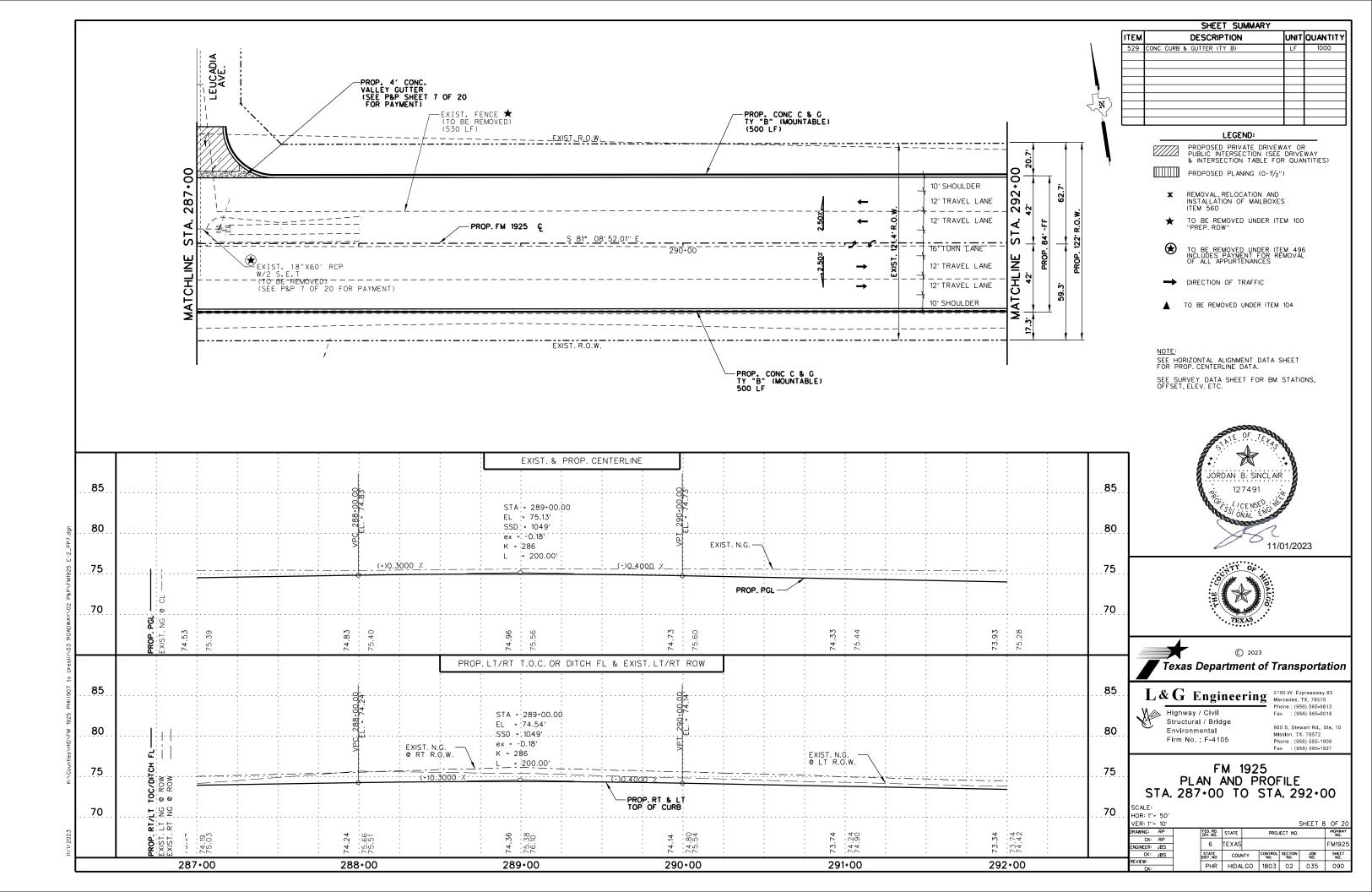


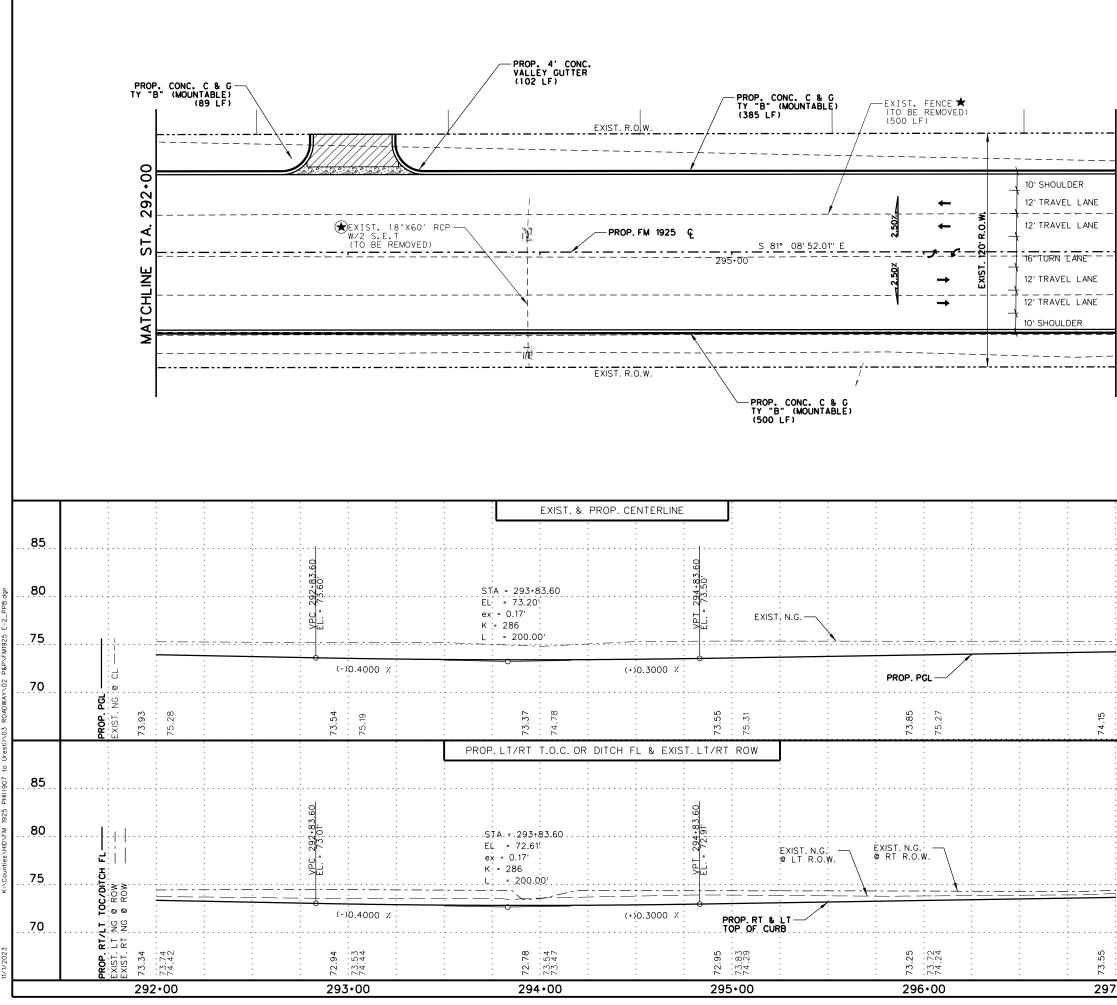
		SHEET SUMMARY	
1	ITEM	DESCRIPTION	
l	354 496	PLAN ASPH CONC PAVE (0" TO 11/2") REMOV STR (PIPE GATE)	SY 25 LF 25
. 1	529 529	CONC CURB & GUTTER (TY B) CONC CURB & GUTTER (VALLEY GUTTER 48")	LF 991
-	529	CONC COND & GUTTER (VALLET GUTTER 48")	
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=8 <del>-1</del>		LEGEND:	· · · · · · ]
• [20]		PROPOSED PRIVATE DRIVEW PUBLIC INTERSECTION (SEE	AY OR
		WITTERSECTION (SEE & INTERSECTION TABLE FOR	DRIVEWAY R QUANTITIES)
51A. 277+00 51A. 277+00 4FF 84FF 60' 20' R.O.W.		PROPOSED PLANING (0-11/2"	)
		REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES	5
HLINE		ITEM 560 ★ TO BE REMOVED UNDER ITE "PREP. ROW"	M 100
		TO BE REMOVED UNDER ITE	M_ 496
		TO BE REMOVED UNDER ITE INCLUDES PAYMENT FOR RE OF ALL APPURTENANCES	MOVAL
		DIRECTION OF TRAFFIC	
I		TO BE REMOVED UNDER ITEM	104
		NOTE	
		<u>NOTE:</u> SEE HORIZONTAL ALIGNMENT DATA S FOR PROP. CENTERLINE DATA.	HEET
		SEE SURVEY DATA SHEET FOR BM	STATIONS,
J		OFFSET, ELEV. ETC.	
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		JORDAN B. SINCLAIR	î. <b>y</b>
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		Texas Department of Tr	ansportation
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	2	L&O Engineering Mer	0 W. Expressway 83 rcedes, TX. 78570
		🖬 Highway / Civil 🛛 🛛 🖓 Fax	one: (956) 565-9813 (956) 565-9018
80	2. <b>1</b> 7	Environmental Mis	S. Stewart Rd., Ste. 10 slon, TX. 78572
			one : (956) 585-1909
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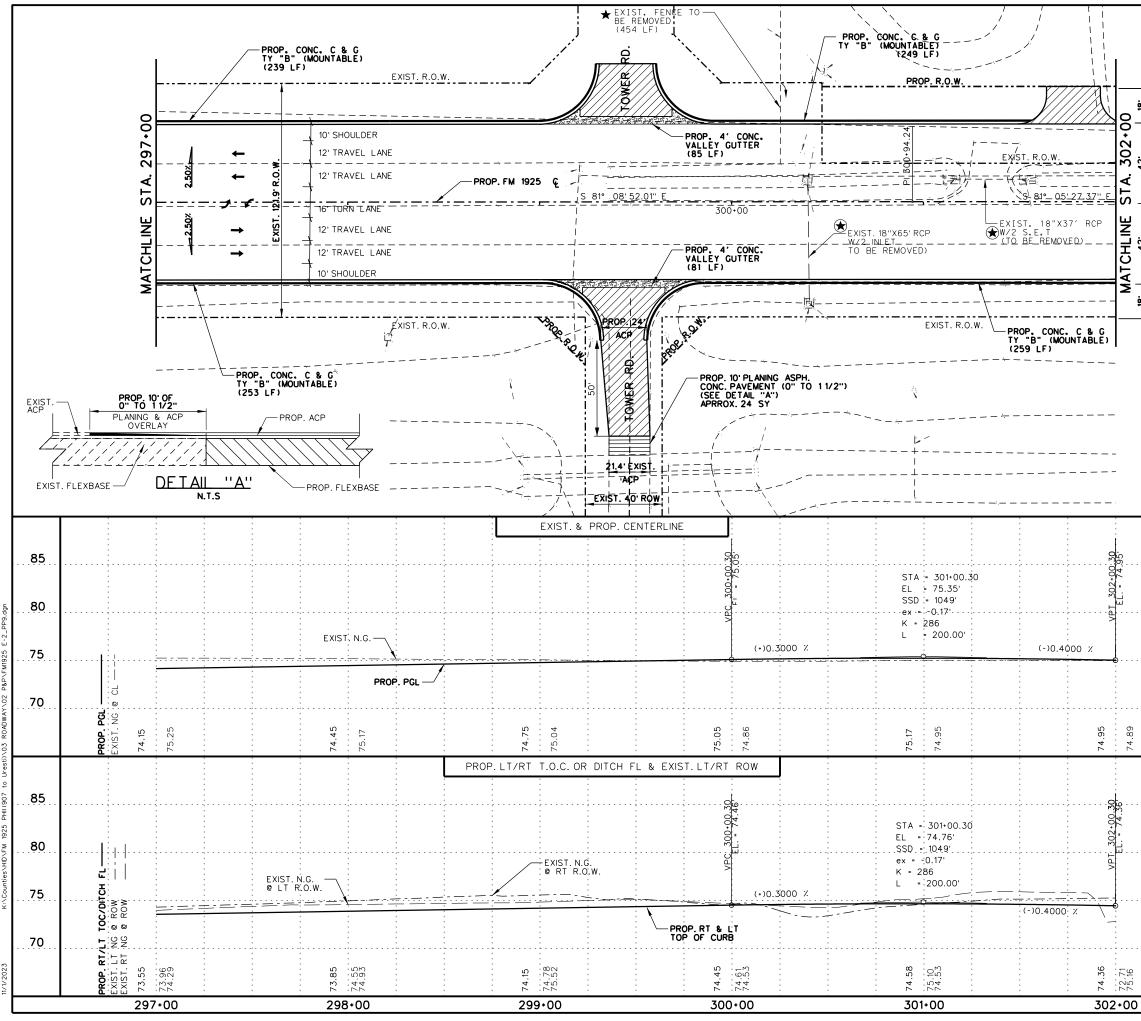


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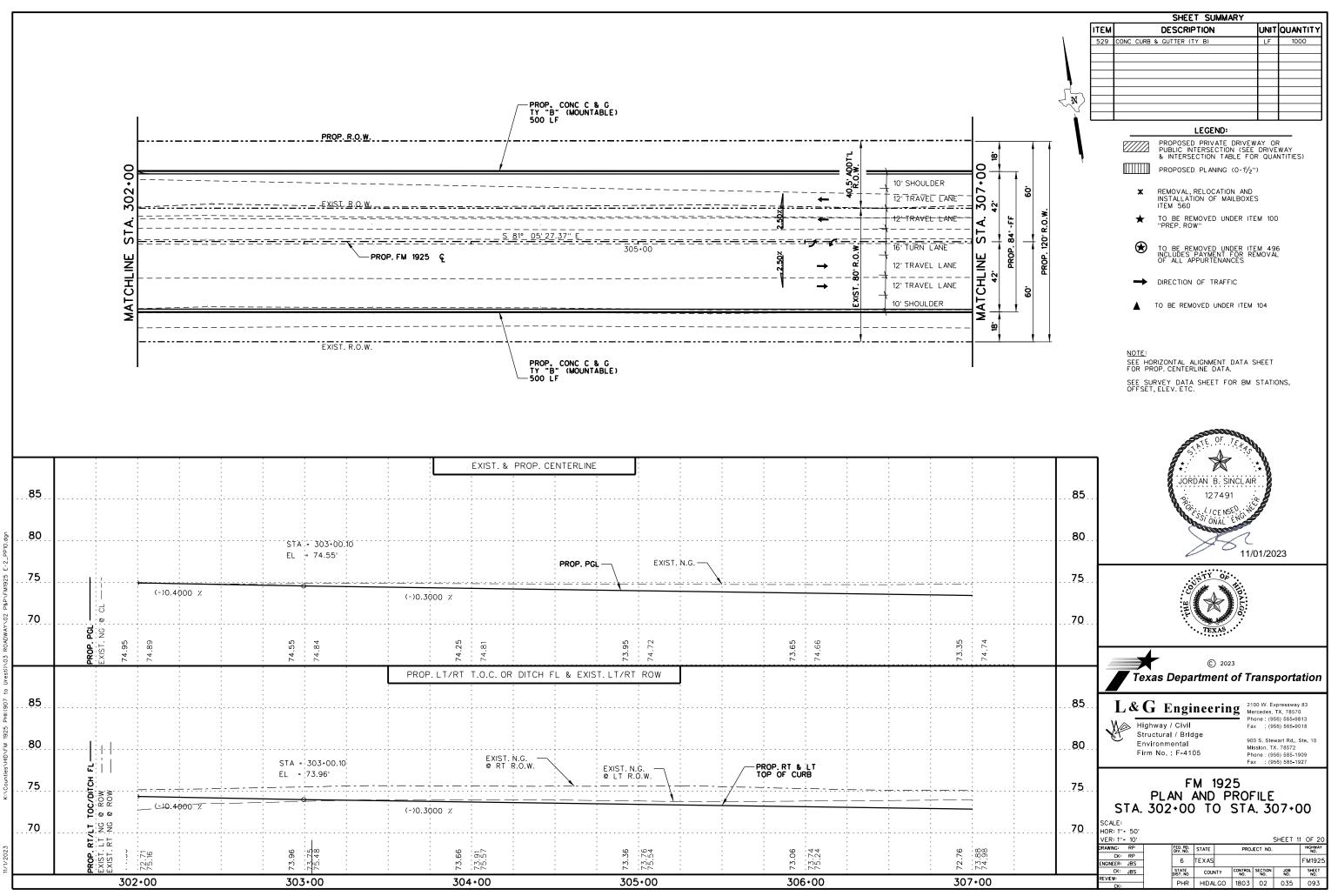


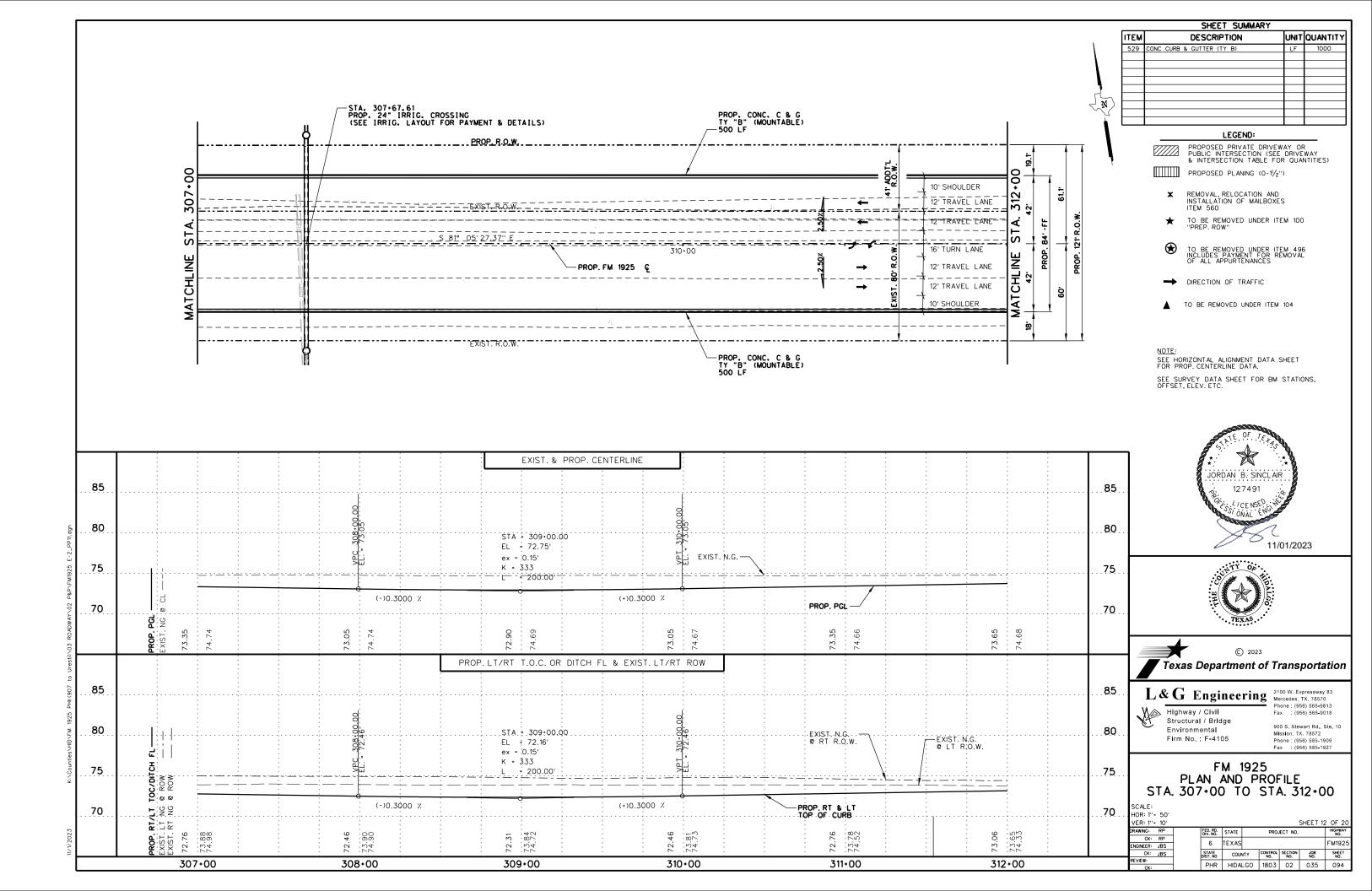


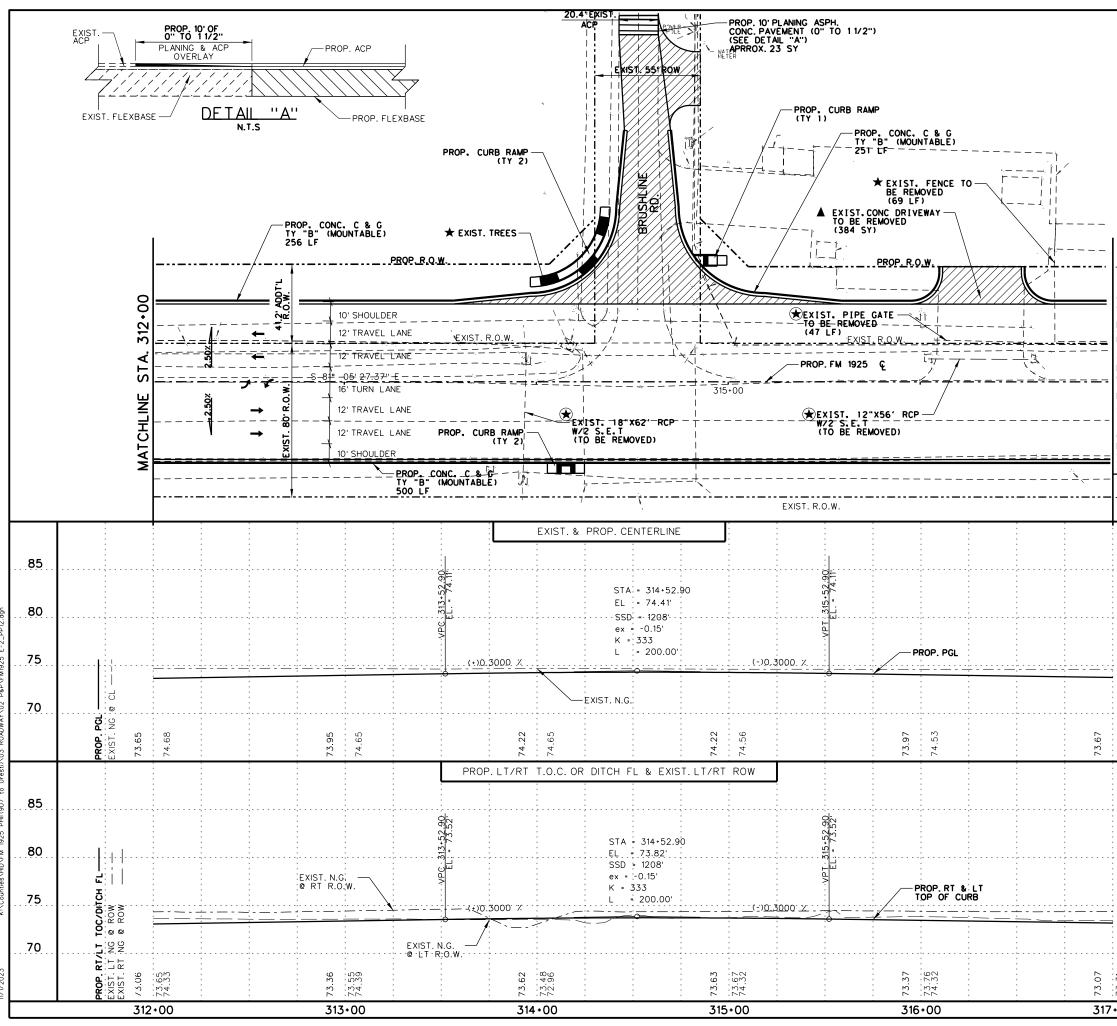
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DIRECTION OF TRAFFIC      TO BE REMOVED UNDER ITEM 104      NOTE:     SECHORZONTAL ALIONMENT DATA SHEET     SOF PROP. CENTERLINE DATA     SEE SURVEY OATA SHEET FOR BM STATIONS.      OFFSET, ELEV. ETC.      OFFSET, ELE				UF ALL APPURIENANCE	5	
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B         NOIE:           SEE HORZONTAL ALIGNMENT DATA SHEET FOR PROC.         SEE SURVEY DATA SHEET FOR BM STATIONS, OFFSET, ELEV. ETC.           B5.         85.           86.         80.           75.         70.           76.         70.           77.         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           75.         70.           76.         85.           86.         86.           70.         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01/2023         1/01/2023           1/01	╡╬╶╁─┴││			IS BE REMOVED UNDER I	104	
SEE HORIZONTAL ALIGNMENT DATA SHEET FOR PROP. CENTERLINE DATA.           SEE SURVEY DATA SHEET FOR BM STATIONS.           OFFSET, ELEV. ETC.           B5.           B5.           B6.           B0.           75.           70.           72.           75.           70.           71.           72.           73.           74.           75.           76.           77.           78.           79.           70.           71.           72.           73.           74.           75.           76.           77.           78.           79.           70.           71.           72.           73.           74.           75.           75.           75.           75.           75.           75.           75.           75.           75.           75.           75.           75.	<u> </u>					
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85       85         80       127491         1/0E NGS       11/01/2023         75       11/01/2023         75       11/01/2023         76       11/01/2023         77       11/01/2023         80       11/01/2023         76       11/01/2023         77       11/01/2023         80       11/01/2023         85       100 W Expression         85       127491         85       127491         85       100 W Expression         86       1270 W Expression         87       11/01/2023         88       100 W Expression         89       11/01/2023         80       100 W Expression         81       11/01/2023         82       100 W Expression         83       100 W Expression         84       11/01/2023         85       100 W Expression         85       11/01/2023         85       100 W Expression         86       11/01/2023         87       100 W Expression         88       11/01/2023         89       11/01/2023         80						
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85.       Image: Construction of the construc	75	_				
85.       L & G Engineering       2100 W. Expressway 83 Mercedes, TX. 78570 Phone : (956) 565-9013         Highway / Civil Structural / Bridge Environmental Firm No. : F-4105       900 S. Stewart Rd., Ste. 10 Misston, TX. 78572 Phone : (956) 585-1927         75.       FM 1925 PLAN AND PROFILE STA. 292+00 TO STA. 297+00         70.       SCALE: HOR: 1"- 50' VER: 1"- 10'         80.       State         90.       S. Stewart Rd., Ste. 10 Misston, TX. 78572 Phone : (956) 585-1927         75.       FM 1925 PLAN AND PROFILE STA. 292+00 TO STA. 297+00         SCALE: HOR: 1"- 50' VER: 1"- 10'       SHEET 9 OF 2 SHEET 9 OF 2 SHEET 9 OF 2 0'.N.         80.       State         90.       SHEET 9 OF 2 0'.N.         91.       SHEET 9 OF 2 0'.N.         92.       State         93.       G TEXAS         94.       Base State	· · · · · · · · · · · · · · · · · · ·			-	T	
Mercedes: TX: 78570         Phone: (956) 655-9018         Structural / Bridge         Environmental         Firm No. : F-4105         FM 1925         PLAN AND PROFILE         STA. 292+00 TO STA. 297+00         SCALE:         HOR: I''- 50'         VER: I''- 10'         SHEET 9 OF 2         SCALE:         HOR: I''- 50'         VER: I''- 10'         SHEET 9 OF 2         SHEET 9 OF 2         SHEET 9 OF 2         ST. A. 292+00 TO STA. 297+00         SCALE:         HOR: I''- 50'         VER: I''- 10'         SHEET 9 OF 2         ST. A. 290, 100, 00, 00, 00, 00, 00, 00, 00, 00,			Texa	as Department of	rans	portation
Mercedes: TX: 78570         Phone: (956) 655-9018         Structural / Bridge         Environmental         Firm No. : F-4105         FM 1925         PLAN AND PROFILE         STA. 292+00 TO STA. 297+00         SCALE:         HOR: I''- 50'         VER: I''- 10'         SHEET 9 OF 2         SCALE:         HOR: I''- 50'         VER: I''- 10'         SHEET 9 OF 2         SHEET 9 OF 2         SHEET 9 OF 2         ST. A. 292+00 TO STA. 297+00         SCALE:         HOR: I''- 50'         VER: I''- 10'         SHEET 9 OF 2         ST. A. 290, 100, 00, 00, 00, 00, 00, 00, 00, 00,			7			
80       Highway / Civil Structural / Brldge Environmental Firm No. : F-4105       Phone: (956) 565-9913 Fax : (956) 565-9018 900 S. Stewart Rd., Ste. 10 Mission, TX, 7872 Phone: (956) 585-1927         75       FM 1925 PLAN AND PROFILE STA. 292+00 TO STA. 297+00 SCALE: HOR: 1"- 50' VER: 1"- 10'         80       SCALE: HOR: 1"- 50' VER: 1"- 50' VER: 1"- 50' VER: 1"- 50' VER: 1"- 50'         70       SCALE: HOR: 1"- 50' VER: 1"- 50' VER: 1"- 50' VER: 1"- 10'         80       SCALE: HOR: 1"- 50' VER: 1"- 10'         80       STAE         8	85	. 1	[.&G	Engineering	2100 W. Ex	
80       Highway / Civil Structural / Bridge Environmental Firm No. : F-4105       900 S. Stewart Rd., Ste. 10 900 S. Ste					Mercedes, 1 Phone : (95	
80         Environmental Firm No.: F-4105         900 5. Stewart Rd., Ste. 10 Mission, TX, 78572           Phone: (956) 585-1909 Fax: : (956) 585-1927           75         FM 1925 PLAN AND PROFILE STA. 292+00 TO STA. 297+00           70         SCALE: HOR: 1"+ 50' VER: 1"+ 10'           70         SCALE: HOR: 1"+ 50' VER: 1"+ 10'           70         SCALE: HOR: 1"+ 50' VER: 1"+ 10'           74         SHEET 9 OF 2 SHEET 9 OF 2 SHEET 9 OF 2 ST. 40           70         REVEW:		l V				
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Fax         : (956) 585-1927           FM         1925           PLAN         AND         PROFILE           STA.         292+00         TO         STA.         297+00           SCALE:         HOR: 1"- 50'         SCALE:         SCALE:         SCALE:         SCALE:         SCALE:         SCALE:         SCALE:         STA.         292+00         TO         STA.         297+00           DRAWIG:         K:         RP         STATE         PROJECT NO.         MGRM           DRAWIG:         JBS         STATE         PROJECT NO.         MGRM           ST, MO         COUNTY         COUNTY         STATE         FMID           ST, MO         COUNTY         COUNTY         STATE         STATE           DRAWIG:         JBS         STATE         PROJECT NO.         MGRM           ST, MO         COUNTY         COUNTY         STATE         STATE         STATE           DAU         JUD AL COUNTY         STATE         STATE         STATE         STATE         STATE	80					
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PLAN AND PROFILE STA. 292+00 TO STA. 297+00           SCALE: HOR: 1"- 50"           VER: 1"- 10"           DRAWING:           PP           MONTO:           Not           CK:           REVIEW:           NO	75			FM 1925	~~~~	
70         SCALE: HOR: 1"- 50' VER: 1"- 10'         SHEET 9 0F 2           000 0:N Not         DRAWING: RP ENDINEER: JBS Not         FED. R0, STATE         PROJECT NO.         HogMY. HORM.           0:N Not         CK: RP ENDINEER: JBS CK: JBS         6         TEXAS         FM19 05T, NO.         FM19 05T, NO.           17+00         REVEW:         DUPL         HID.4L CO.         1803 0.02         0.35	≝ :		<sup> </sup>	-LAN AND PR	OFILE	
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OK         CK:         RP         6         TEXAS         FM192           CK:         JBS         STATE         COUNTY         CONTROL SECTION         JOB         SHEET           T + OO         REVEW:         DUD         UID AL CO         1803         NO.         NO.         NO.				FED. RD. STATE		
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REVIEW: PHR HIDALCO 1803 02 035 001	743				TROL SECTION	
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	7.100					



							SHEET SUMMAR	Y	
					ITEM		DESCRIPTION		QUANTITY
				1		PLAN ASPH	CONC PAVE (0" TO 11/2")	SY	24
					496	REMOV STR	(INLET)	EA	2
1					496 496	REMOV STR REMOV STR		E A L F	2 102
1				N I	529	CONC CURB	& GUTTER (TY B)	LF	1000
				Th	529	CONC CURB	& GUTTER (VALLEY GUTTER	48") LF	166
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STA. 302+00		-							
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12		09							<u> </u>
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	PROP. 8		P. 120			ж	REMOVAL, RELOCATION INSTALLATION OF MAILE	AND BOXES	
TLIN 42:	g.		PROP.			*	ITEM 560 TO BE REMOVED UNDE "PREP. ROW"	R ITEM 100	
MATCHLINE		.09				$\bigotimes$			
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-	-			-		$\rightarrow$	DIRECTION OF TRAFFIC		
						<b>A</b>	TO BE REMOVED UNDER	ITEM 104	
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200	;			85		L&G	Engineering	2100 W. Ex	
4.3				1	Ι.			Phone: (95	6) 565 <b>-</b> 9813
	÷			1			way / Civil ctural / Brldge		6) 565-9018
				80		– Envi	ronmental	900 S. Stew Mission, TX	art Rd., Ste. 10 78572
				1	1	Firm	No.: F-4105	Phone : (95)	6) 585-1909
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						STA. 2	FM 1925 PLAN AND PR 297+00 TO S	OFILE	2+00
-	÷			70	SCA				
				· [ · · · · · · · ·		: 1''= 50' : 1''= 10'		s	HEET 10 OF 20
16				1	DRAWIN		FED. RD. DIV. NO. STATE	PROJECT NO.	HIGHWAY NO.
75				1	ENGINE	ER: JBS	6 TEXAS		FM1925
2.00				1	REVIEW	CK: JBS V:		NTROL SECTION NO. NO.	JOB SHEET NO. NO.
2+00						CK:	PHR HIDALGO 18	303 02	035 092



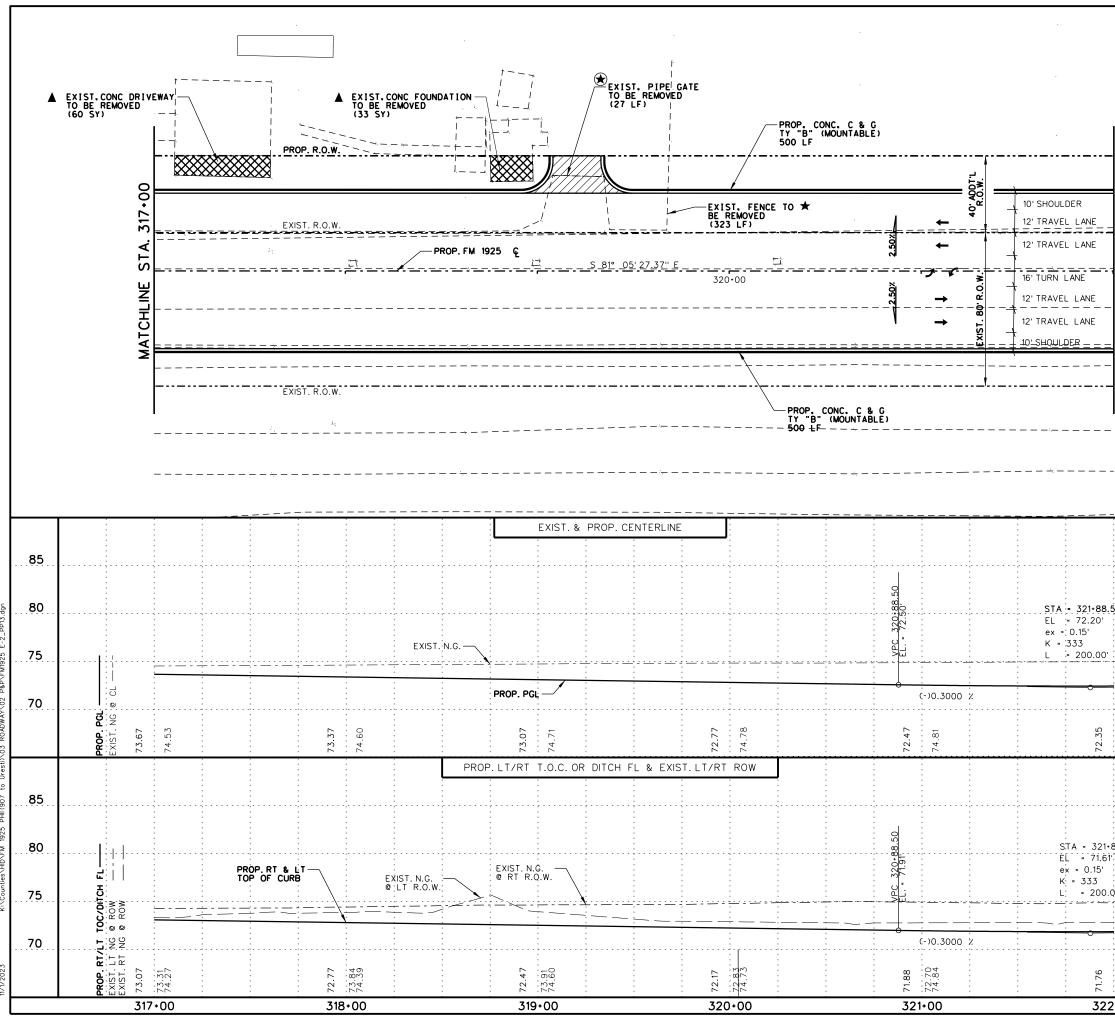




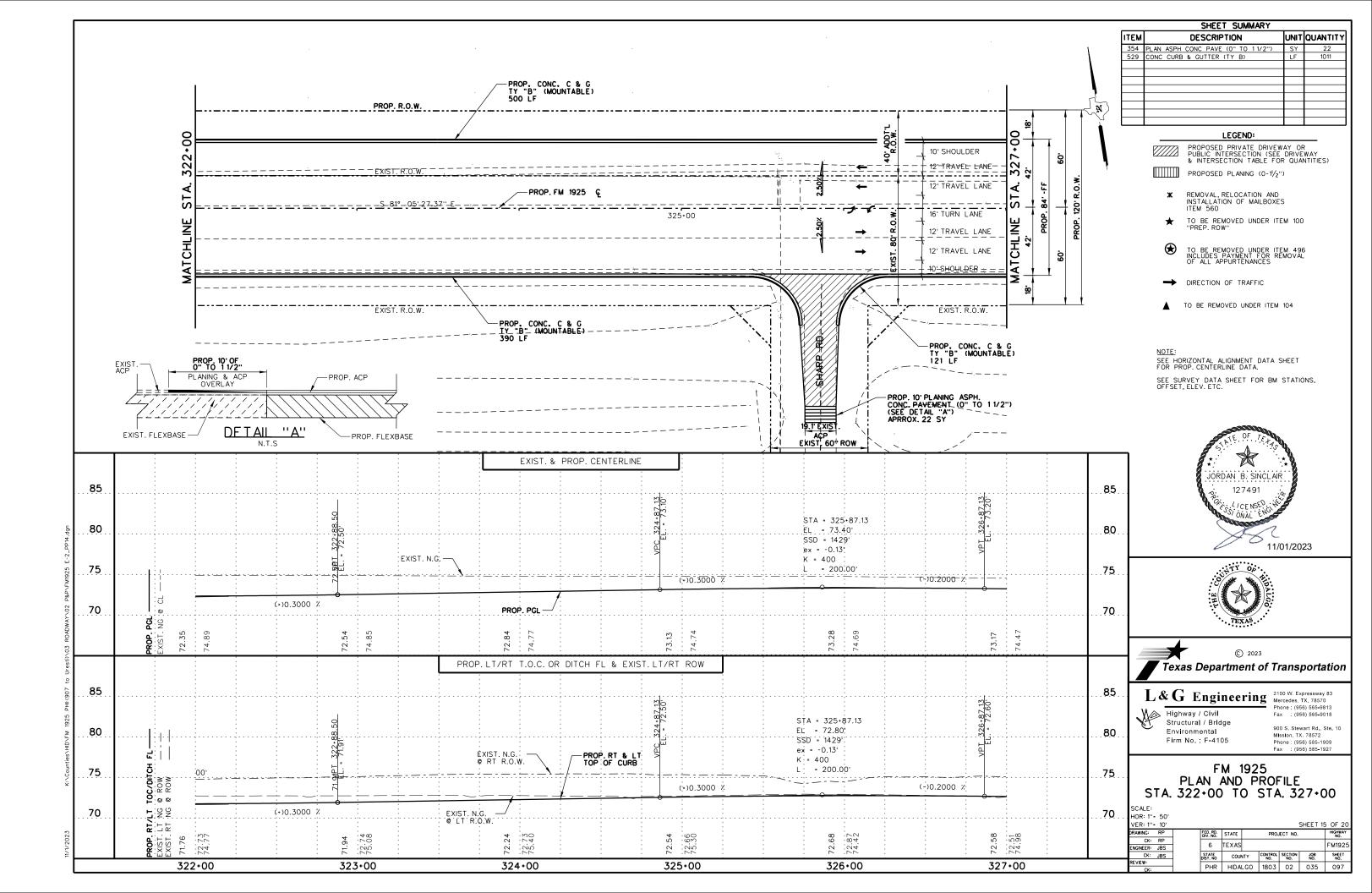
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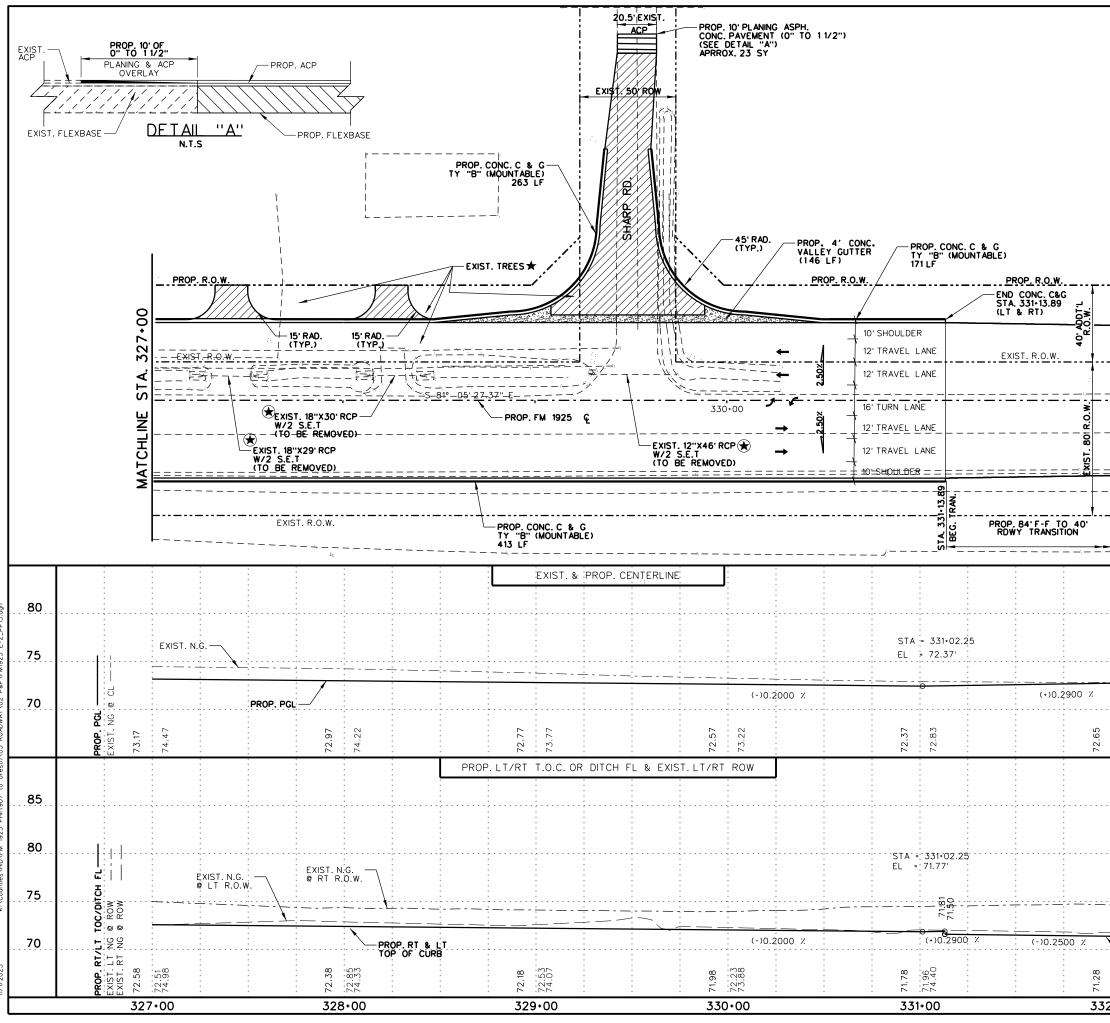
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		SHEET SUMMARY		
	ITEM	DESCRIPTION		QUANTITY
1	354 104	PLAN ASPH CONC PAVE (0" TO 11/2") REMOVE CONC (DRIVEWAYS)	SY SY	23 384
	496	REMOVE STR (PIPE GATE)	LF	47
N N	496 496	REMOVE STR (SET) REMOVE STR (PIPE)	E A L F	4 118
r	529	CONC CURB & GUTTER (TY B)	LF	1007
L'A)	531 531	CURB RAMPS (TY 1) CURB RAMPS (TY 2)	EA	1 2
				2
		LEGEND:		_
•		PROPOSED PRIVATE DRIVEN PUBLIC INTERSECTION (SEE	NAY OR	VAY
,		& INTERSECTION TABLE FO		
		PROPOSED PLANING $(0-1^{1}/_{2})$	")	
		✗ REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXE ITEM 560	S	
		TO BE REMOVED UNDER IT	EM 100	
		TO BE REMOVED UNDER IT INCLUDES PAYMENT FOR R OF ALL APPURTENANCES	EM 496 EMOVAL	
		DIRECTION OF TRAFFIC		
317 60 <sup>-</sup>		· · · · · · · · · · · · · · · · · · ·		
TA. 44 8.0.W.		TO BE REMOVED UNDER ITEM	104	
MAT CHLINE S		NOTE: SEE HORIZONTAL ALIGNMENT DATA FOR PROP. CENTERLINE DATA. SEE SURVEY DATA SHEET FOR BM OFFSET, ELEV. ETC.		NS,
 		JORDAN B. SINCLAI		
		Crisis Crice NSED	01/202	3
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<b>70</b>		E TEXAS		
74.53				
		© 2023 Texas Department of T	ransp	ortation
			00 W. Expr ercedes, TX	
		Highway / Civil Fa Structural / Brldge Environmental M Firm No. : F-4105 Pr	ione : (956) x : (956)	565-9813 565-9018 rt Rd., Ste. 10 78572 585-1909
		FM 1925 PLAN AND PROF STA. 312+00 TO STA	FILE A. 317	<b>7+</b> 00
	VER	: 1''- 50' : 1''- 10'	SH	EET 13 OF 20
27	DRAWIN	CK: RP	ECT NO.	HIGHWAY NO.
ω4 10	ENGINE	ER: JBS 6 TEXAS	SECTION	FM1925 JOB SHEET
+00	REVIEW		SECTION NO.	JOB SHEET NO. NO. 035 095
		CK: PHR HIDALGO 1803	V2	090



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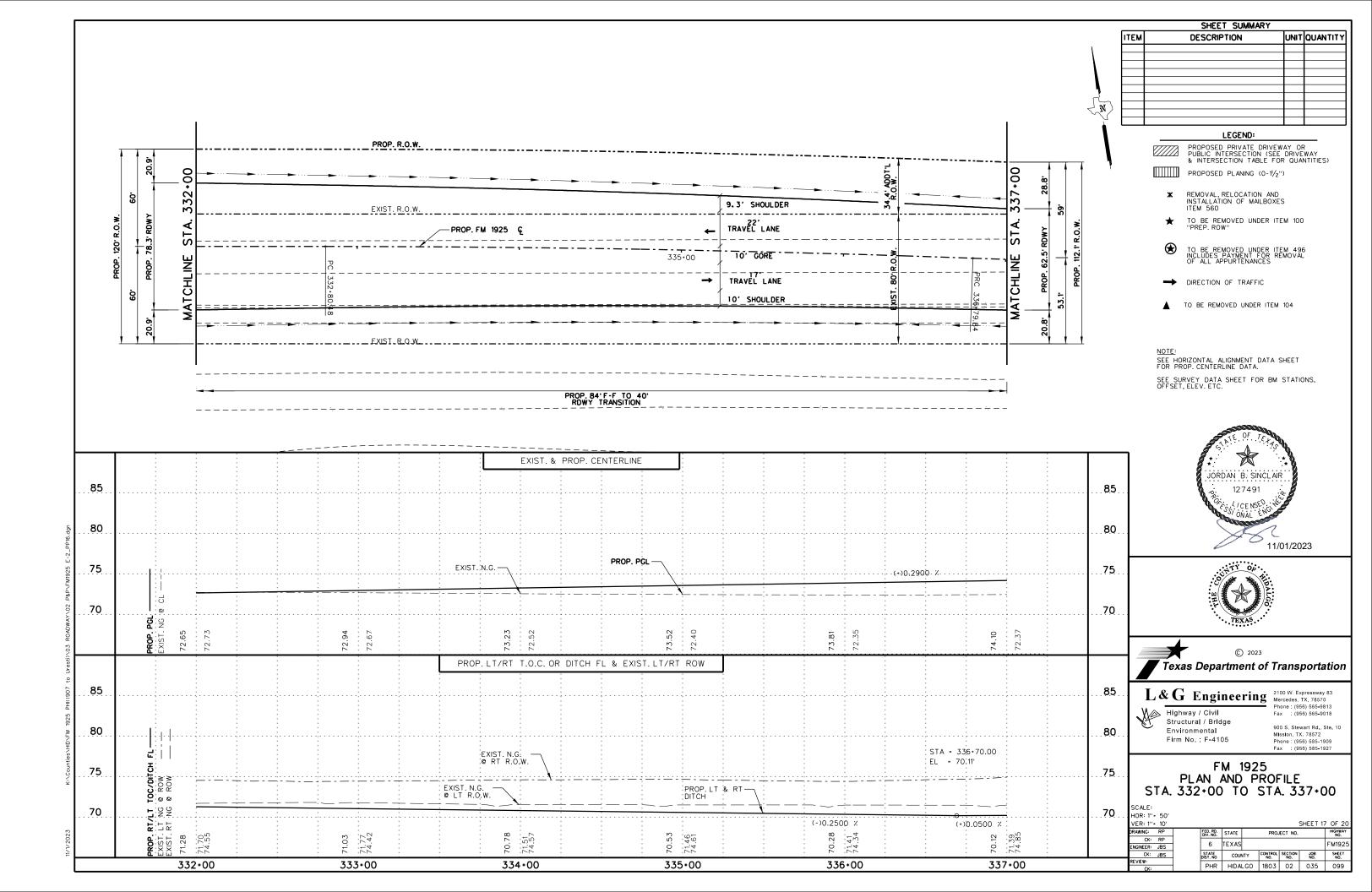


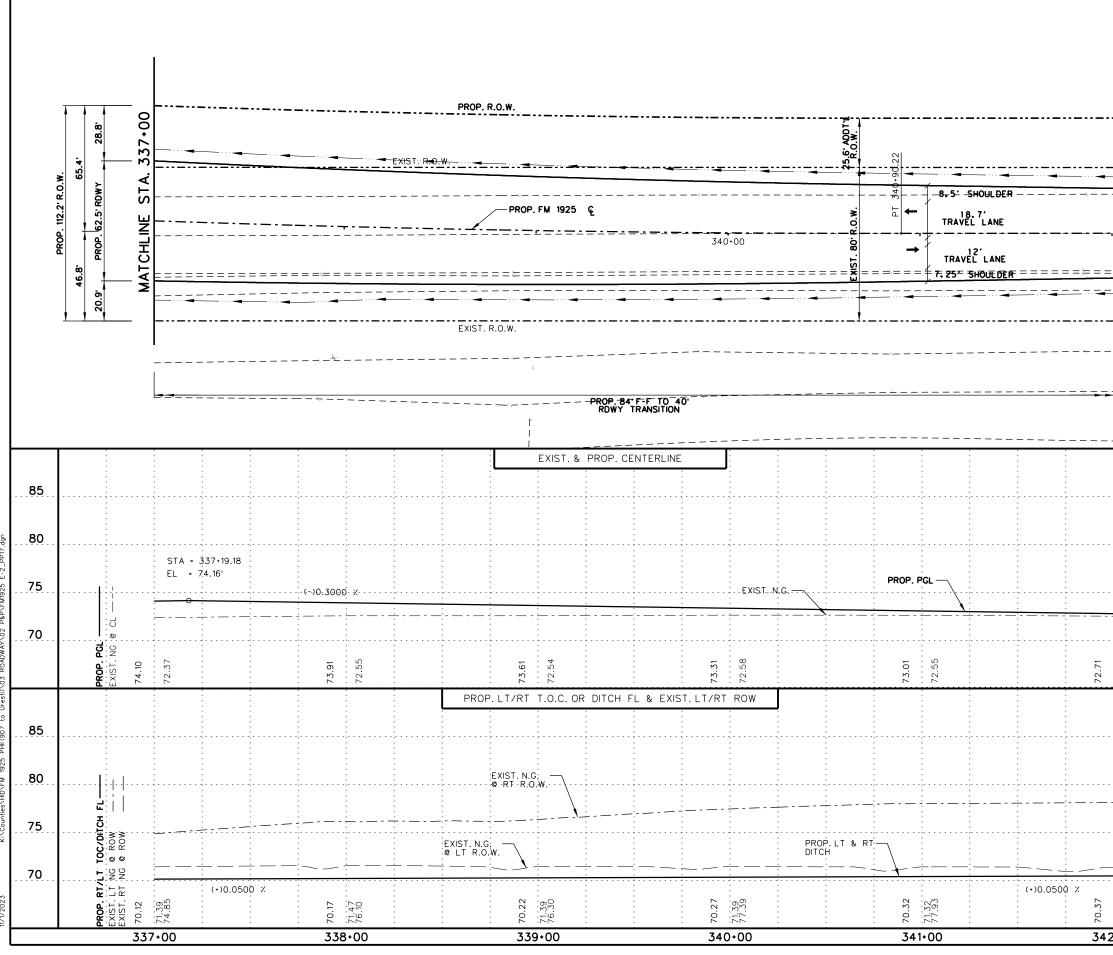


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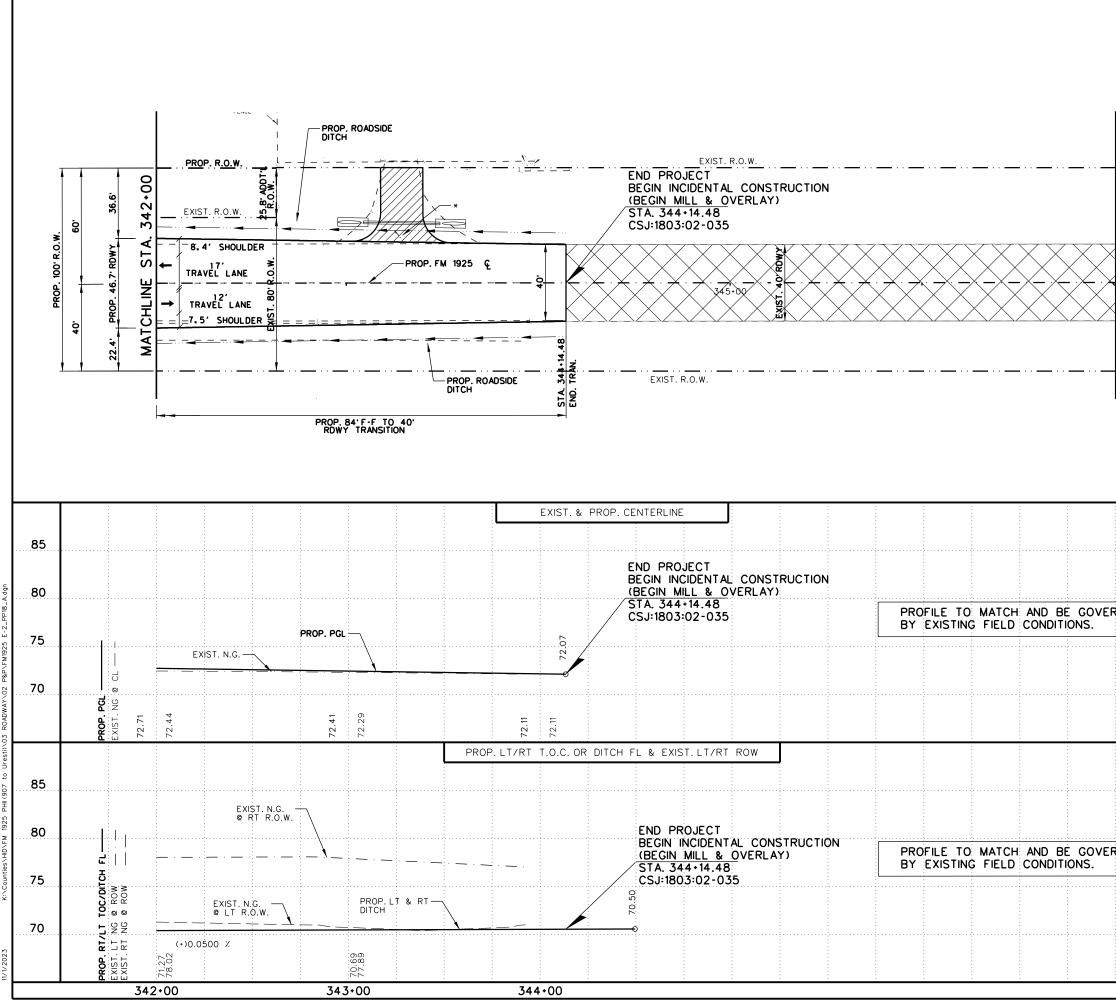
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Star         Pays Apple Code: Safe Cor 10 Junct         Safe Code: Safe Cor 10 Junct         Safe Code:	324         PLAN ASPH CONC FAC (0° TO 11/2")         SY         2.2           456         FRANCY STR GYD.         1/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2         4/2	354       LEM ASPL CONCERNANC OF TO 11/27)       SX       23         466       REMOVE STR JEPP:       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       Life 343         522       CORC CURBE A GUTTER ITY BD       CORC CURBE A GUTTER ITY BD         522       CORC CURBE A GUTTER ITY BD       CORC CURBE A GUTTER ITY BD       CORC CURPENTION I TABLE POR OWNER ITHER ITY BD         533       CORC CURLER ITY BD       CORC CURLER ITY BD       CORC CURLER ITY BD       CORC CURLER ITY BD         534       DIRECTION OF ITABLE CONT ITABLE I FOR BM STATIONS, OF FRANCES       CORC CURLER ITY BD       CORC CURLER ITY BD       CORC CURLER	23 6 149 847 149 149	SY EA LF LF LF OR VOR DRIVEV QUAN	I CONC PAVE (0" TO 11/2") IR (SET) IR (PIPE) 3 & GUTTER (TY B)	354 496 496						
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Image: PROPOSED PLANING (0-1/2 <sup>-1</sup> )           *         REMOVAL, RELOCATION AND INSTALLATION OF MALEDORES INTENDED           *         TO, BE, REMOVED, UNDER ITEM 100           •         DIRECTION OF TRAFFIC           •         DIRECTION OF TRAFFIC           •         TO BE REMOVED UNDER ITEM 104           NOTE:         SEE HORZONTAL ALIGNMENT DATA SHEET           •         FOR PROP. CENTERLINE DATA           •         DIRECTION OF TRAFFIC           •         DIRECTION OF BERNOVED UNDER ITEM 104           •         SEE HORZONTAL ALIGNMENT DATA SHEET           •         SEE HORZONTAL ALIGNMENT DATA SHEET           •         OFFSET, ELEV. ETC.           •         SEE HORZONTAL ALIGNMENT DATA SHEET           •         OFFSET, ELEV. ETC.           •         SEE HORZONTAL ALIGNMENT DATA SHEET           •         OFFSET, ELEV. ETC.           •         OFFSET, ELEV. ETC.           •         TO           •         OCAL           •         OCAL	PROPOSED PLANING (0-1½ <sup>2</sup> ) ★ REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES ★ TO, BE REMOVED UNDER ITEM 100 → TO, BE REMOVED UNDER ITEM 100 → DIRECTION OF TRAFTIC ★ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ★ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ★ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ★ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ★ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ★ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ★ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ★ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ↓ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ↓ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ↓ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ↓ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ↓ TO BE REMOVED UNDER ITEM 104 → DIRECTION OF TRAFTIC ↓ TO BE REMOVED UNDER ITEM 104 ↓ TO BE REMOVED UNDER ITEM	PROPOSED PLANING (0-1/2 <sup>-1</sup> ) * REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXES IT D BE REMOVED UNDER ITEM 100 * TO BE REMOVED UNDER ITEM 100 * TO BE REMOVED UNDER ITEM 496 OF ALL APPUMEINANCES * TO BE REMOVED UNDER ITEM 104 * TO BE REMOVED UNDE			PUBLIC INTERSECTION (SEE							
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75       70         70       © 2022         70       © 2022         70       © 2022         70       © 2022         70       © 2022         70       © 2022         71       Texas Department of Transportation         85       E. & G Engineering         85       Highway / Civil Structural / Bridge Environmental Firm No. : F-4105         80       80         75       FM 1925         75       FM 1925         75       FM 1925         80       SCALE:         HOR: IT- & -RT       70         SCALE:       HOR: IT- 50' VER: IT- 10'         900 State       SHEET 16 OF         920 State       SHEET 16 OF	75       70         70       © 2022         © 2022       Texas Department of Transportation         85       L & G Engineering         Highway / Civil       Phone: (65) 665-9018         Structural / Bridge       Phone: (65) 665-9018         900 5. Stewart Rd., Ste. 10       Merceds., TX. 78570         Phone: (65) 665-9018       Phone: (65) 685-1909         Firm No. : F-4105       Phone: (65) 685-1909         75       FM 1925         PLAN AND PROFILE       Struct. 327 + 00 TO STA. 332 + 00         SCALE:       NOR: 17 - 50'         DITCH       SCALE:         NOR: 17 - 50'       SHEET 16 OF         PROP: LT & -RT       70         SCALE:       MOR: 17 - 50'         OTCH       SHEET 16 OF         PROP: LT & -RT       70         SCALE:       MOR: 17 - 50'         VER. WAS       STATE         PROPCE: LT & -RT       70	75       75         70       Image: Constraint of the second secon	3	/2023		0	80					
<sup>2</sup> 2022 <sup>2</sup> 2022 <sup>2</sup> 100 W. Expressway 83 <sup>4</sup> Mercedes, TX, 78570 <sup>1</sup> Highway / Civil <sup>8</sup> Structural / Bridge <sup>1</sup> None: (956) 565-9013 <sup>8</sup> Structural / Bridge <sup>1</sup> None: (956) 565-9013 <sup>8</sup> Structural / Bridge <sup>1</sup> None: (956) 585-1909 <sup>1</sup> Firm No.: F-4105 <sup>1</sup> Structural / Bridge <sup>1</sup> Structural / Bridge <sup>1</sup> No.: F-4105 <sup>1</sup> Structural / Bridge <sup>1</sup> Structural / Bridge <sup>1</sup> No.: F-4105 <sup>1</sup> Mission, TX, 78572 <sup>1</sup> Phone: (956) 585-1909 <sup>1</sup> Fax: (966) 585-1927 <sup>1</sup> Structural / Bridge <sup>1</sup> No: T-4105 <sup>1</sup> No: T-50'	85       Image: Construent of the second secon	Michaeline       85       Image: Constraint of the second	<u>×</u>	<u>, 2020</u>		5	75					
(C)       2022         Texas Department of Transportatio         85.       L & G Engineering         Highway / Civil       Phone: (956) 565-9813         Structural / Bridge       Phone: (956) 565-9813         Environmental       900 S. Stewart Rd., Ste. 10         Mission. TX. 78572       Phone: (956) 585-1909         Fax:       : (956) 585-1909         Fax:       : (956) 585-1927         75       FM 1925         PLAN AND PROFILE         STA.       327 + 00 TO STA.         DITCH       SCALE:         HOR: 1''- 50'         VER: 1''- 10'         SCALE:         HOR: 1''- 50'         VER: 1''- 10'         SHEET 16 OF	85       Image: Construent of the second secon	85.       L & G Engineering         Highway / Civil       Structural / Brldge         Environmental       Firm No. : F-4105			HE TEXAS	0	70					
BOD         Fightering         Mercedes, TX, 78570 Phone: (956) 565-9813 Fructural / Bridge Environmental Firm No.: F-4105         Mercedes, TX, 78570 Phone: (956) 565-9109 Fax: (956) 585-1927           75         FM 1925 PLAN AND PROFILE STA. 327+00 TO STA. 332+00           SCALE: HOR: 1''- 50' VER: 1''- 10'         SKEET 16 OF FW. 40: STATE           PROP: LT: & -RT         70	BO         FM         1925           75         FM         1925           76         FM         1925           77         FM         1925           76         FM         1925           77         FM         1925           78         FM         1925           79         FM         1925           70         SCALE:         FM           101CH         FM         10'           101CH         FM         FM	B0         Highway / Civil Structural / Brldge Environmental Firm No. : F-4105         Mercedes, TX. 78570 Phone : (956) 565-9018 Fax : (956) 565-9018           80         Highway / Civil Structural / Brldge Environmental Firm No. : F-4105         900 S. Stewart Rd., Ste Mission, TX. 78572	ortatio	nsp	-							72.7
80       Highway / Civil Structural / Bridge Environmental       Fax : (956) 585-9018         80       Structural / Bridge Environmental       900 S. Stewart Rd., Ste. 10         Mission, TX. 78572 Phone: (956) 585-1927       900 S. Stewart Rd., Ste. 10         75       FM 1925 PLAN AND PROFILE STA. 327 +00 TO STA. 332 + 00         SCALE: HOR: 1'' - 50' VER: 1'' - 10'       SHEET 16 OF         PROP: LT. & -RT       70         SCALE: HOR: 1'' - 50' VER: 1'' - 10'       SHEET 16 OF         PRAINING: RP       FSV. RC: STATE       PROJECT NO.	BO         Highway / Civil Structural / Bridge Environmental         Fax         : (956) 565-9018           Structural / Bridge Environmental         900 S. Stewart Rd., Ste. 10 Mission, TX. 76572         900 S. Stewart Rd., Ste. 10 Mission, TX. 76572           Firm No. : F-4105         Phone: (956) 585-1927           75         FM 1925 PLAN AND PROFILE STA. 327+00 TO STA. 332+00           SCALE:         SCALE:           DITCH         VER: 1"- 50' VER: 1"- 10'           SCALE:         SHEET 16 OF ENVICENCE: UBS           CK: RP ENVICE: UBS         500 Mission 6 TEXAS	80         Highway / Civil         Fax : (956) 565-9018           Structural / Brldge         900 S. Stewart Rd., Ste           Environmental         Mission, TX. 78572           Firm No. : F-4105         Phone : (956) 585-1908	X. 78570	edes, TX	<b>Engineering</b>	5	85					
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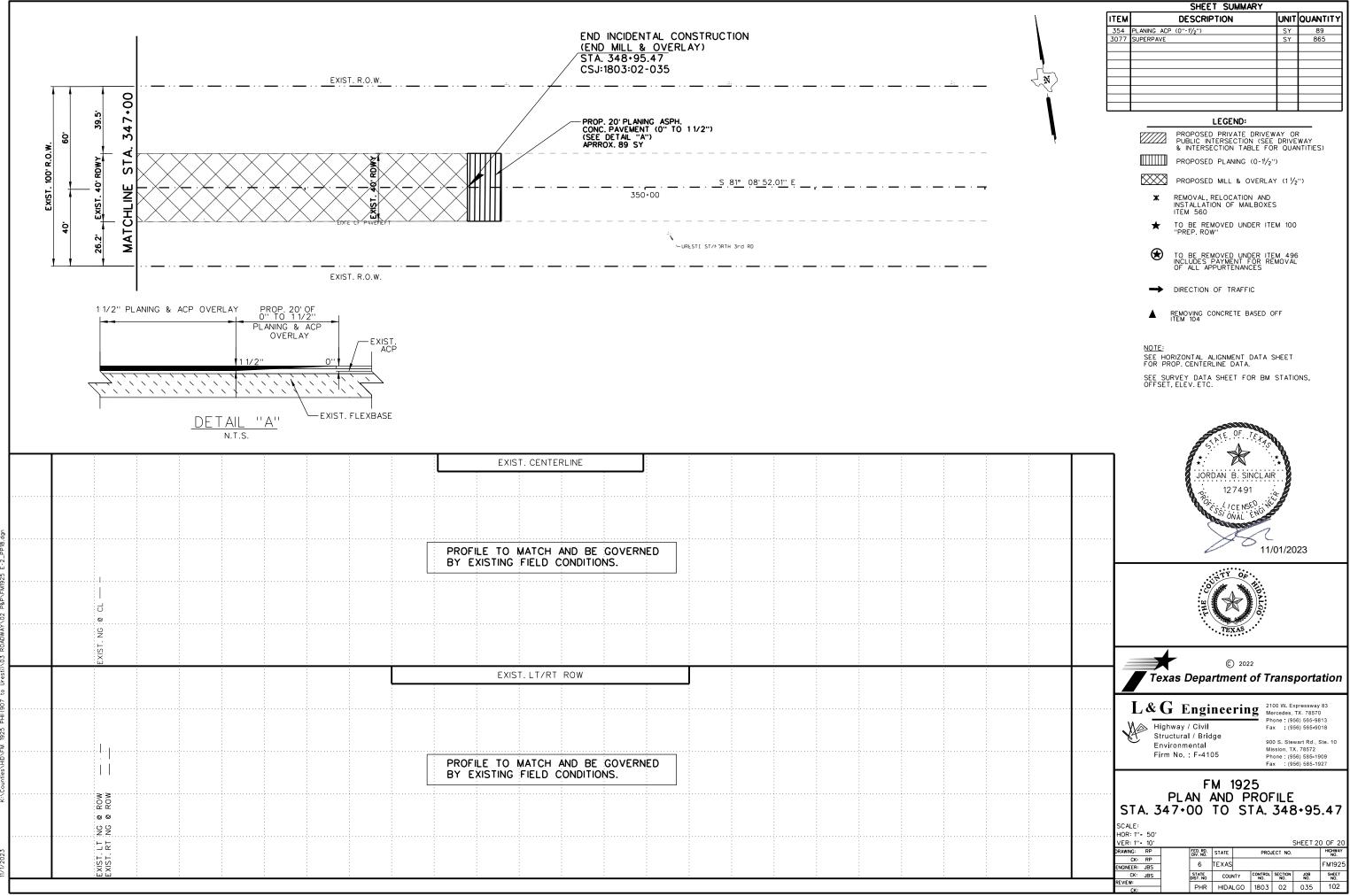


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27 02						CK: RP	6 TEXAS	PROJEC	T NO.	HIGHWAY NO. FM1925
71 78						CK: JBS	6 IEXAS STATE DIST. NO COUNTY	CONTROL SE	CTION NO.	JOB SHEET NO. NO.
2+00	)				REVIEW		PHR HIDALGO		02	035 100



SHEET SUMMARY						
ITEM		DESCRIPTION	UNIT	QUANTIT		
560 3077	MAILBOX INT: SUPERPAVE	SALL (SINGLE)	SY SY	1 1274		
5077	SUPERPAVE		31	1274		
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-		LEGEND:				
		PROPOSED PRIVATE DRIVEN PUBLIC INTERSECTION (SEE & INTERSECTION TABLE FO	DRIVE	WAY		
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	ж	REMOVAL, RELOCATION AND INSTALLATION OF MAILBOXE ITEM 560	S			
	*	TO BE REMOVED UNDER IT	EM 100			
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	<b>→</b>	DIRECTION OF TRAFFIC				
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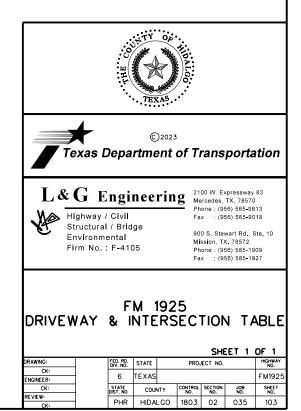
	85	JORDAN B. SINCLAIR
RNED	80	11/01/2023
	75	HE CONTRACTOR
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		© 2022 Texas Department of Transportation
	85	L&G Engineering Highway / Civil 2100 W. Expressway 83 Mercodes, TX. 78570 Phone: (956) 565-9813 Fax: (956) 565-9018
RNED	80	Structural / Bridge         900 S. Stewart Rd., Ste. 10           Environmental         900 S. Stewart Rd., Ste. 10           Firm No. : F-4105         Phone: (956) 585-1909           Fax         : (956) 585-1927
	75	FM 1925 PLAN AND PROFILE STA. 342+00 TO STA. 347+00
	70	SCALE:         HOR: 1'' - 50'         SHEET 19 OF 20           VER: 1'' - 10'         SHEET 19 OF 20           RAWING:         RP         FED. R0.         STATE         PROJECT NO.         MORWAD.           CK:         RP         6         TEXAS         FM1925         FM1925           CK:         JBST. M0         COUNTY         CONTROL SECTION         NO.         NO.
		REVIEw:         No.         No.



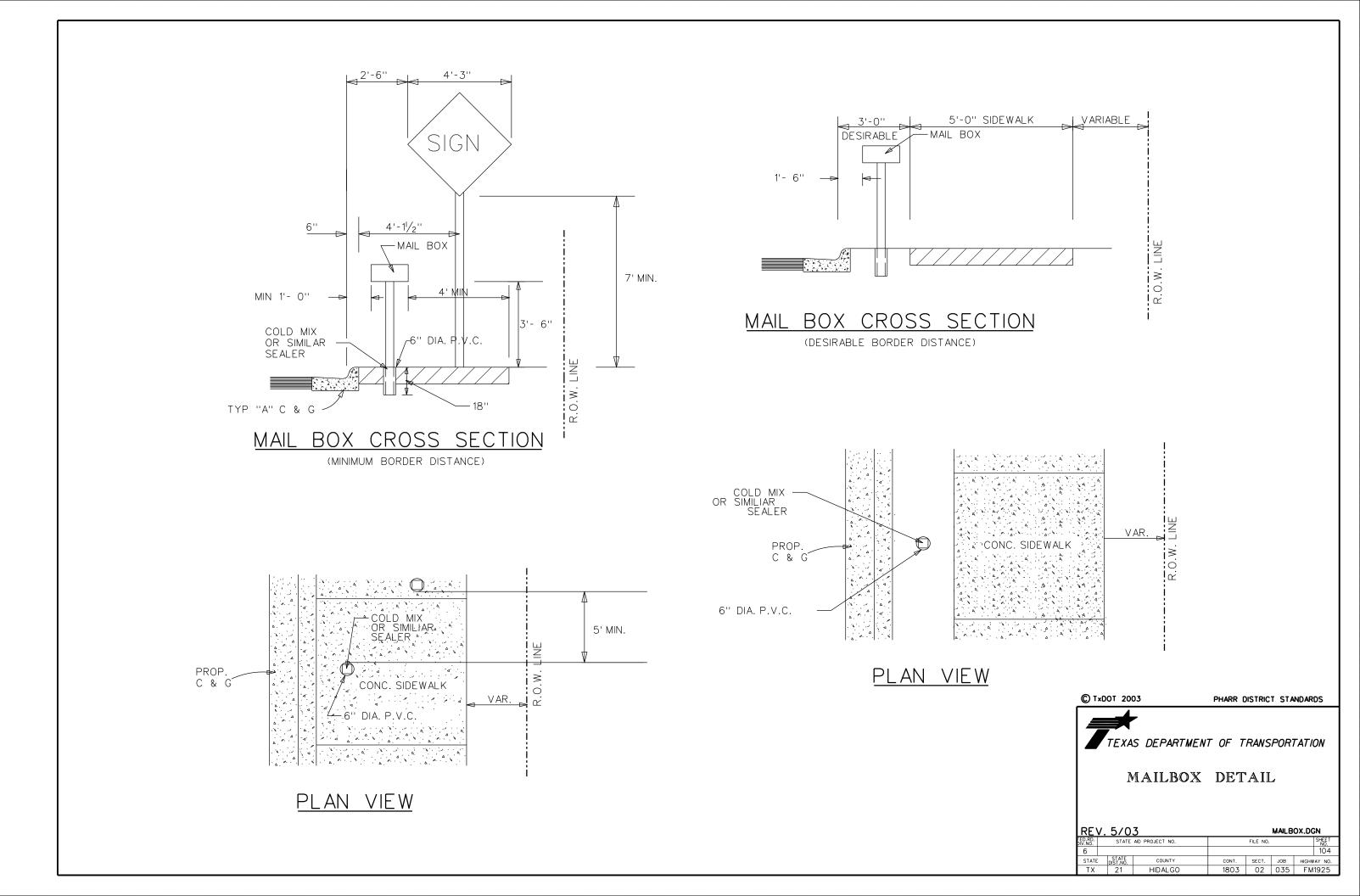
		SHEET SUMMAR	<u> YY</u>	
ITEM		DESCRIPTION	UNIT	QUANTITY
354	PLANING ACP	(0"-1 <mark>//</mark> 2")	SY	89
3077	SUPERPAVE		SY	865
		PROPOSED PRIVATE D PUBLIC_INTERSECTION	(SEE DRIVE	WAY
		& INTERSECTION TABL PROPOSED PLANING (		NTITIES)
	$\boxtimes$	PROPOSED MILL & OV	ERLAY (1 1/2	'')
	*	REMOVAL, RELOCATION INSTALLATION OF MAIL ITEM 560	AND BOXES	
	*	TO BE REMOVED UNDE "PREP. ROW"	R ITEM 100	
	۲	TO BE REMOVED UNDE INCLUDES PAYMENT FO OF ALL APPURTENANCE	R ITEM 496 DR REMOVAL ES	5
	$\rightarrow$	DIRECTION OF TRAFFIC		
		REMOVING CONCRETE BAS TEM 104	SED OFF	
	<u>NOTE:</u> SEE HO FOR PR	RIZONTAL ALIGNMENT D OP. CENTERLINE DATA.	ATA SHEET	
	SEE SU OFFSET	RVEY DATA SHEET FOF ,ELEV.ETC.	BM STATIO	DNS,
		STATE OF 7	A CARAGE	
		* JORDAN B. SIN	CLAIR	
		in 127491	D WE	
		Ac	11/01/20	23
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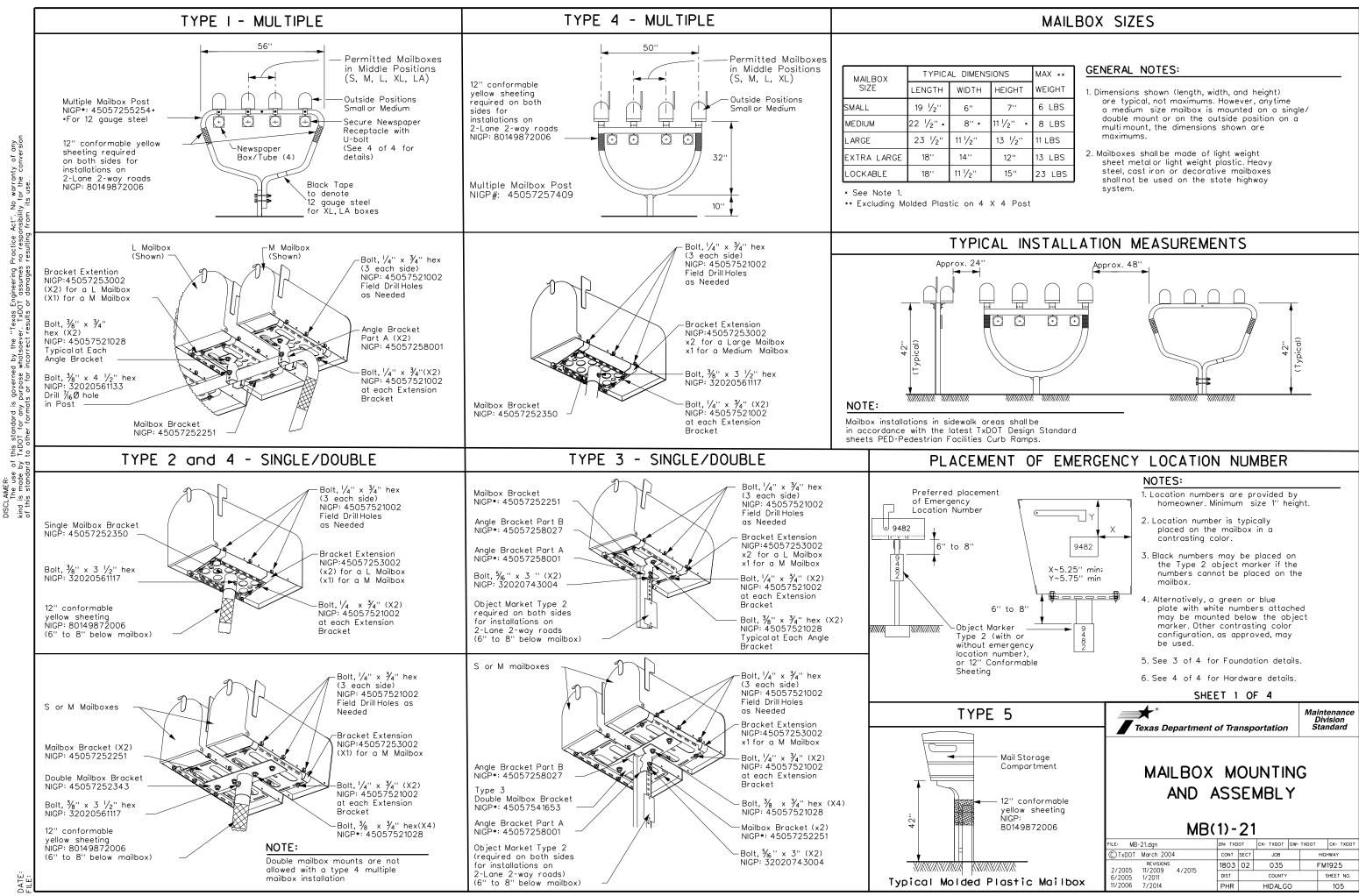
SUMMARY OF PROP. PRIVATE DRIVEWAYS					
				ITEM	530
				6004	6005
STATION LIMITS	WIDTH	LENGTH	RADIUS	DRIVEWAYS	DRIVEWAYS
				(CONC)	(ACP)
	(FT)	(FT)	(FT)	(SY)	(SY)
FM 1925				EST.	EST.
LEFT SIDE					
266+69.10 LT	20	19.5	15		54
301+78.12 LT	28	19.5	15		71
316+32.21 LT	44	19.5	15	106	
319+20.65 LT	28	19.5	15		71
327+41.88 LT	17	19.5	15		48
328+25.39 LT	17	19.5	15		48
343+28.89 LT	22	39	15		106
BRUSHLINE AT BUSINESS	28	19	20		78
RIGHT SIDE					
GRAND TOTAL				106	476

SUMMARY OF PROP.	. PUB	LIC IN	TERSE	ECTIONS
				ITEM 530
				6002
STATION LIMITS	WIDTH	LENGTH	RADIUS	INTERSECTION
				(ACP)
	(FT)	(FT)	(FT)	(SY)
FM 1925				EST.
LEFT SIDE				
TERRY RD.LT	31	27.5	30	138
280+23.82 LT	44	15.5	15	87
LEUCADIA RD. LT	31	27.5	30	138
293+02.55 LT	44	17.0	15	94
TOWER RD.LT	31	27.5	30	138
BRUSHLINE RD.LT	24	140	45	470
SHARP RD. LT	24	136	45	459
RIGHT SIDE				
TERRY RD. RT	24	78	30	250
TOWER RD. RT	24	78	30	250
SHARP RD. RT	24	82	30	260
GRAND TOTAL				2284



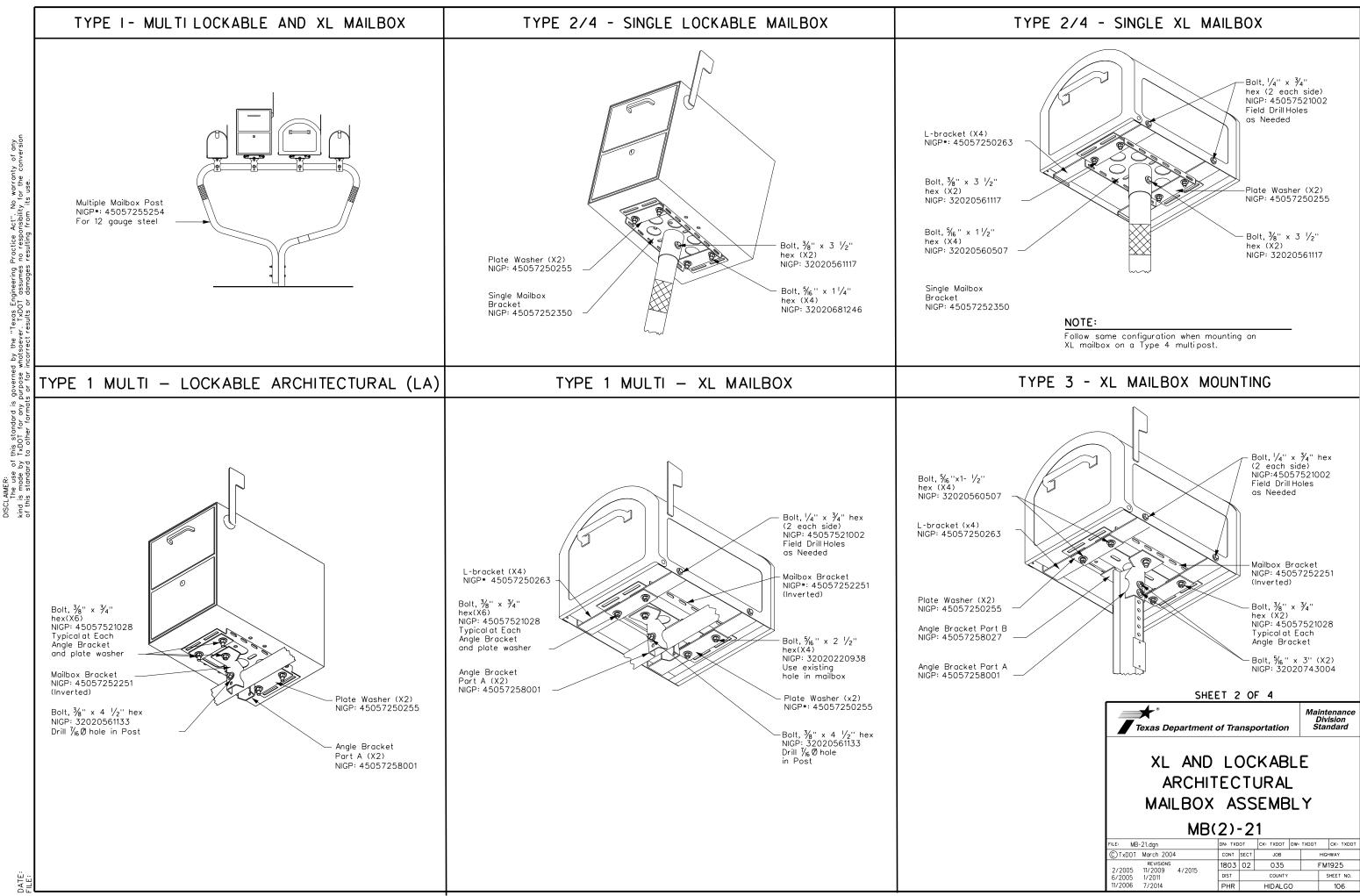




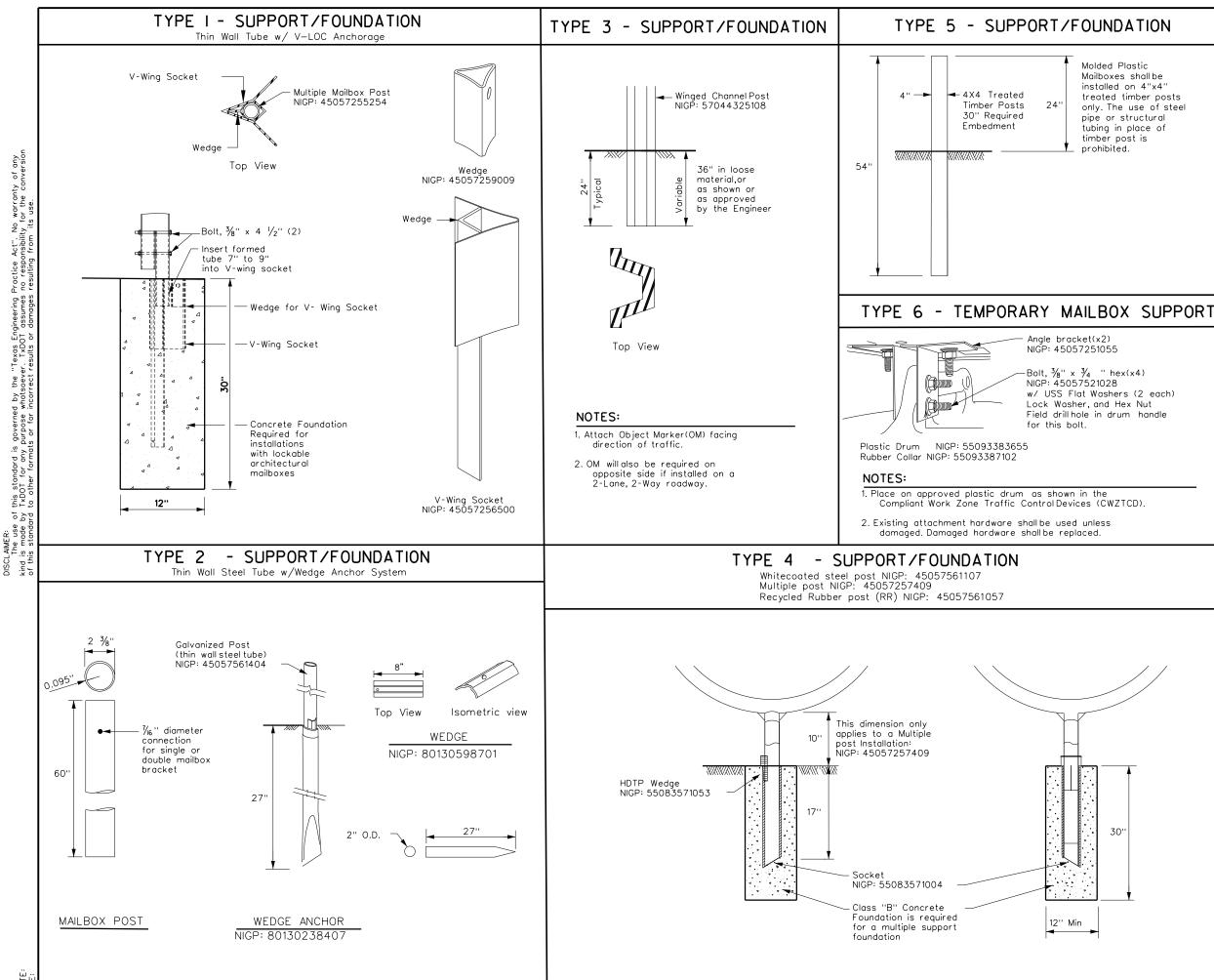


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١S	MAX **
EIGHT	WEIGHT
7''	6 LBS
1∕2'' ×	8 LBS
3 1/2''	11 LBS
12''	13 LBS
15''	23 LBS



exas Engineering Practice Act". No warranty of any TXDOT assumes no responsibility for the conversion of dominants requiring from its use oev d by what purpose burpose any is LER: use of this standard nade by TxDOT for a trandard to other for



DATE

Mailboxes shall be installed on 4"x4' treated timber posts only. The use of steel pipe or structural tubing in place of

# 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

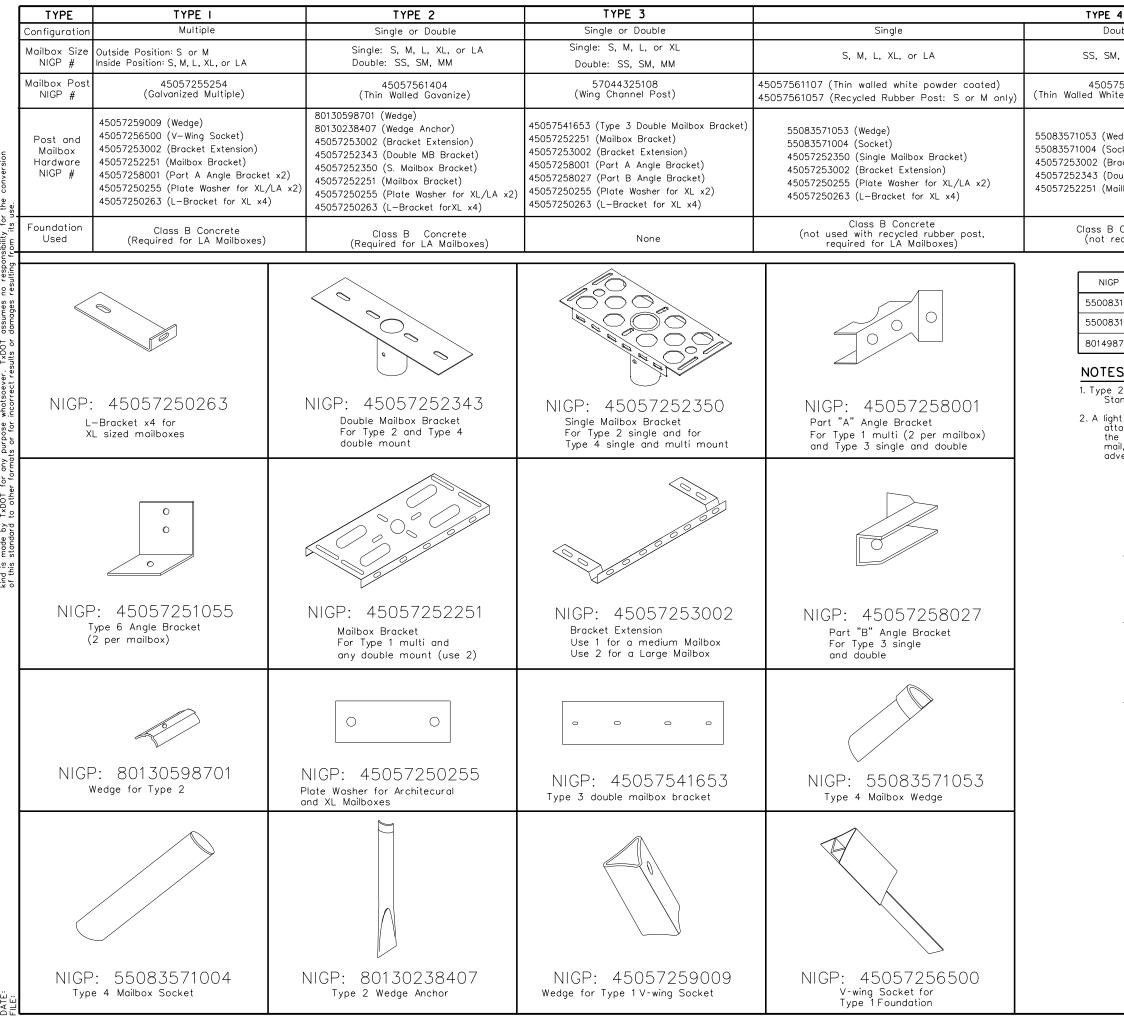
SHEET 3 OF 4

\* Texas Department of Transportation Maintenance Division Standard

# MAILBOX SUPPORT AND FOUNDATION

# MB(3)-21

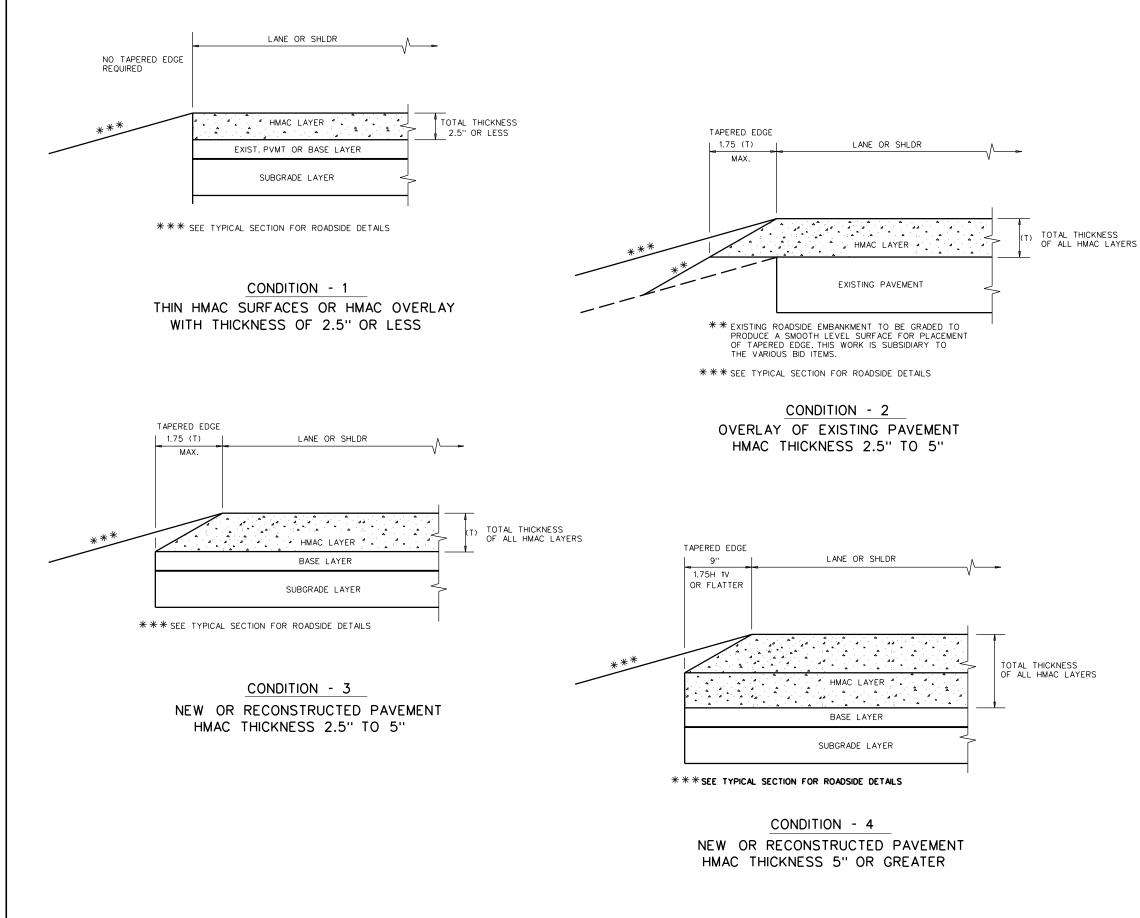
FILE: MB	-21.dgn		DN: TXD	от	CK: TXDOT	DW:	TXDOT	CK: TXDOT
© TxDOT	March 2004		CONT	SECT	JOB		HIG	HWAY
2/2005	REVISIONS 2/2005 11/2009 4/2015			02	035		۶M	1925
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11/2006	7/2014		PHR		HIDALG	0		107



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DATE:

4			TYPE 5	TYPE 6
uble		Multiple	Single	Single
, or MN	1	Outside Position: S or M Inside Position: S, M, L, or XL	Molded Plastic	S, or M
561107 e Powd	ler Coated)	45057257409 (White Powder Coated Multiple	4x4 ) Timber	Construction Barrel
uble Mo	xtension) unt Bracket) acket x2)	55083571053 (Wedge) 55083571004 (Socket) 45057253002 (Bracket Extension) 45057252350 (Single Mount Bracket 45057250255 (Plate Washer for XL 45057250263 (L-Bracket for XL x4	×2)	45057251055 Angle Bracket (x2)
Concre <sup>.</sup> equired)		Class B Concrete	None	None
#	OBJE	CT MARKERS AND CONFORMABLE SHE	ETING	
11759	Type 2 OM	4"x4" (3 Needed) for Type 3 Wing Cl	nannel Post	
12906	Type 2 OM	6"x12" (1 needed) for Type 3 Wing C	hannel Post	
72006	12" Conforn	nable Reflective Yellow Sheeting for F	lexible Posts	
		accordance with Traffic Engineering Object Markers.		
Type Type S M Type Type Type Type Type Type Type Ty 1 Type Ty 1 Ty 2 Ty 3 Ty 4	x, present a 1 d beyond the g, except the BID COD of Mailbox - Single - Double - Multiple - Multiple - Molded Plo of Post - Recycled W - Thin Wall - Thin Wall - Timber of Foundati - V-Loc - Wedge An - Winged Ch	astic hannel Post Rubber led White Tubing ed Galvanized Tubing on chor Steel System nannel post ichor Plastic System	S .) (X)	
		•		Maintenance Division
		Texas Department of Tra	nsportation	Standard
		NIGP PAR AND COMPA MB(4)	TIBILITY	ſ
		FILE: MB-21.dgn DN: TXD (C) TXDOT March 2004 CONT	OT CK: TXDOT DW SECT JOB	TXDOT CK: TXDOT HIGHWAY
		REVISIONS         1803           2/2005         11/2009         4/2015	02 035	FM1925
		6/2005 1/2011 DIST 11/2006 7/2014 PHR		SHEET NO.
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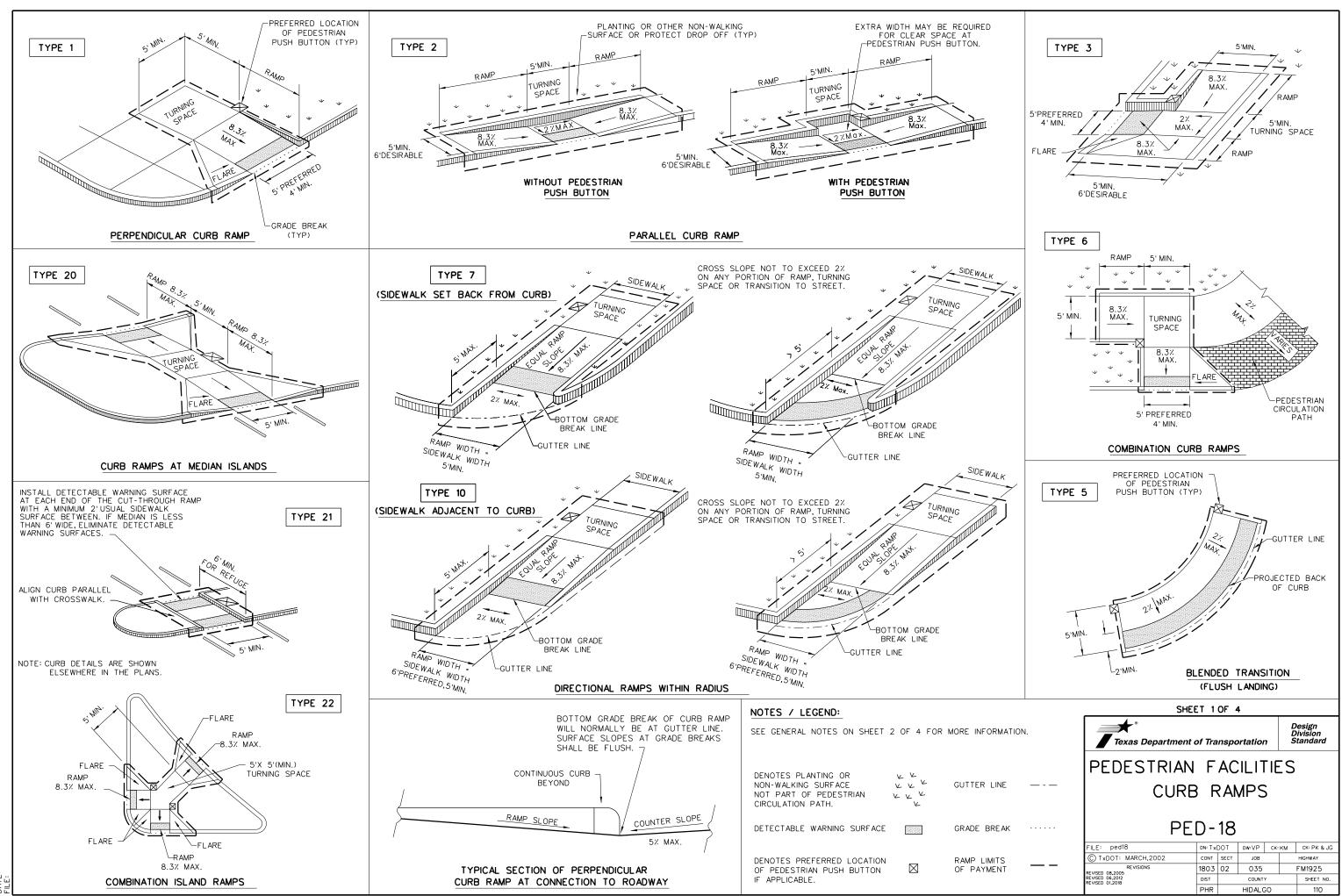
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# GENERAL NOTES

- 1. UNLESS OTHERWISE SHOWN IN THE PLANS, A VERTICAL EDGE IS PERMISSIBLE FOR HMAC PLACED GREATER THAN 5" BELOW THE EDGE OF PAVEMENT AND FOR THICKNESS OF HMAC LESS THAN 2.5".
- 2. FOR FURTHER INFORMATION REGARDING THE ROADSIDE AND PAVEMENT DETAILS, SEE TYPICAL SECTIONS.
- 3. PAYMENT FOR TAPERED EDGE WILL BE IN ACCORDANCE WITH APPLICABLE ITEMS IN THE CONTRACT.
- 4. THE SLOPE OF THE TAPERED EDGE SHALL BE 1.75H 1V:OR FLATTER.
- 5. THE TAPERED EDGE SHALL BE PRODUCED BY USE OF A SCREED ATTACHMENT CAPABLE OF PRODUCING A SMOOTH COMPACTED SURFACE. ADDITIONAL COMPACTING EFFORT BEHIND THE SCREED IS NOT REQUIRED.

Texas Department	Div	sign ision Indard						
TAPERED ED HMAC P TE(HM	PAV	ΈN	JENT		.S			
FILE: tehmac11.dgn	DN: TXC	от	CK: TXDOT	DW:	TXDOT	CK: TXDOT		
© TxDOT January 2011	CONT	SECT	JOB		н	GHWAY		
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# GENERAL NOTES

### CURB RAMPS

1. Install a curb ramp or blended transition at each pedestrian street crossing.

- 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.
- 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 applicable standards may remain in place unless otherwise shown on the plans.

### DETECTABLE WARNING MATERIAL

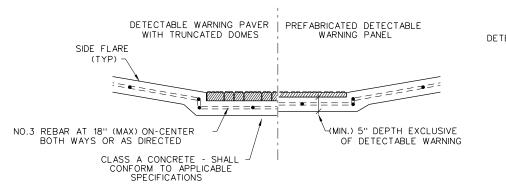
- 19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface 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)

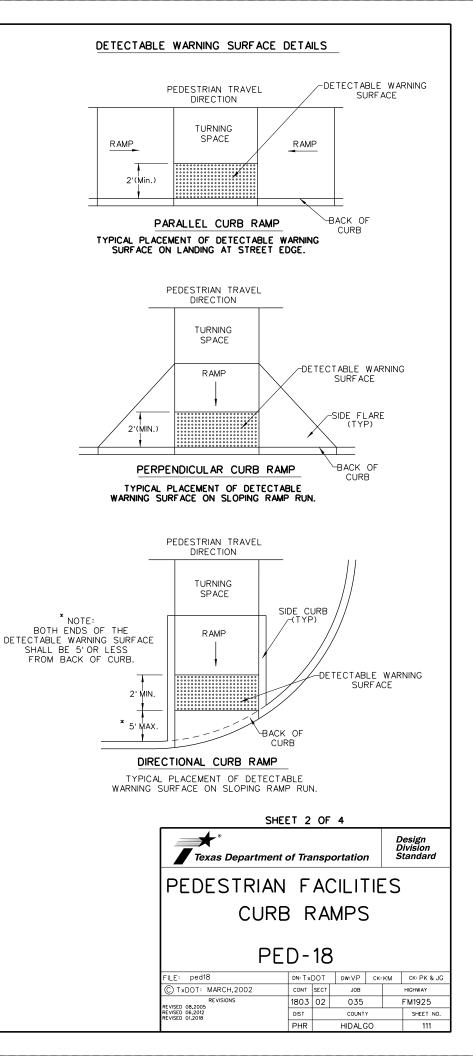
- 25. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
- 26. Lay full-size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw.

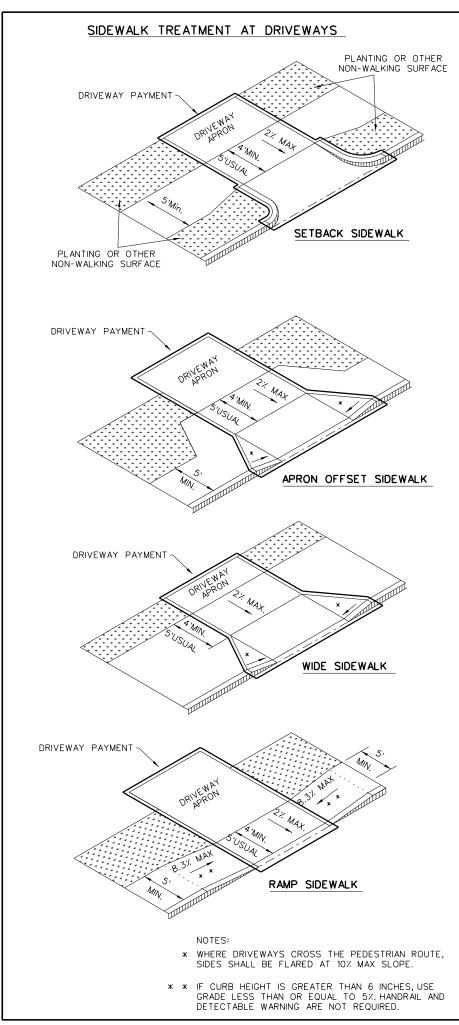
### SIDEWALKS

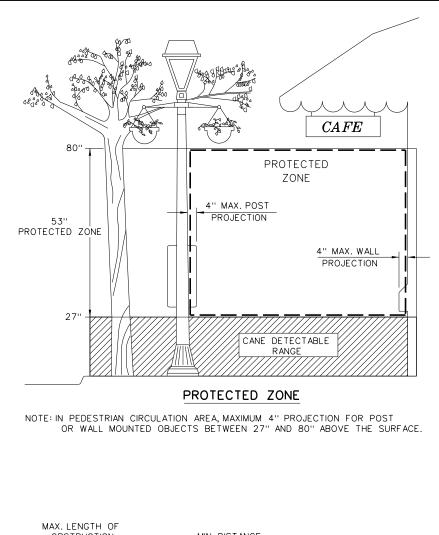
- 27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in PROWAG section R406.
- 28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other 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.

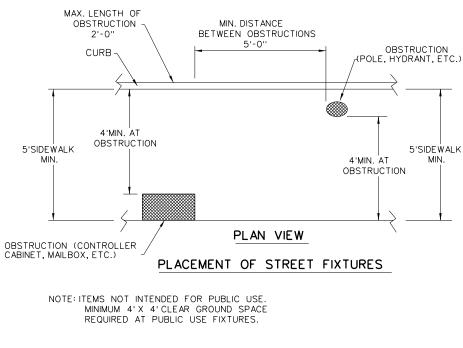


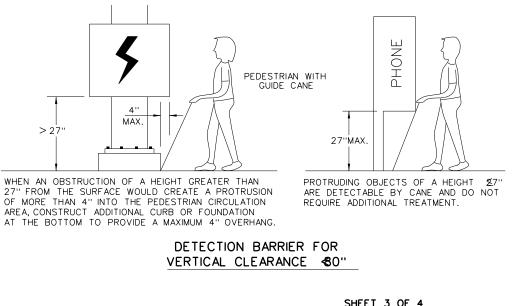
SECTION VIEW DETAIL CURB RAMP AT DETECTIBLE WARNINGS

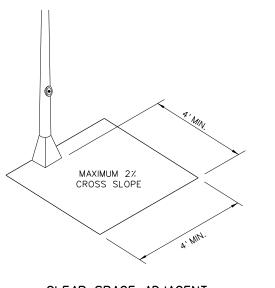








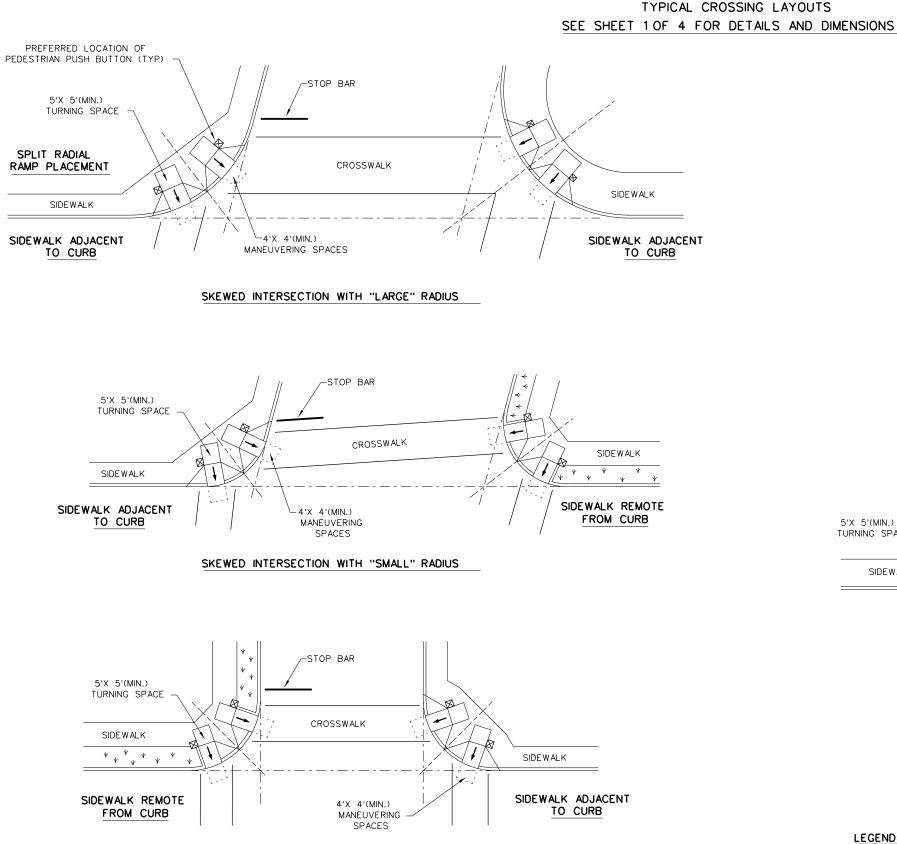




## CLEAR SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON

SHEET 3 OF 4										
Texas Department of Transportation										
PEDESTRIAN FACILITIES CURB RAMPS PED-18										
FILE: ped18	DN: T x	DOT	DW:VP	СК:	КМ	CK: PK & JG				
C TxDOT: MARCH,2002	CONT	SECT	JOB			HIGHWAY				
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NORMAL INTERSECTION WITH "SMALL" RADIUS

LEGEND

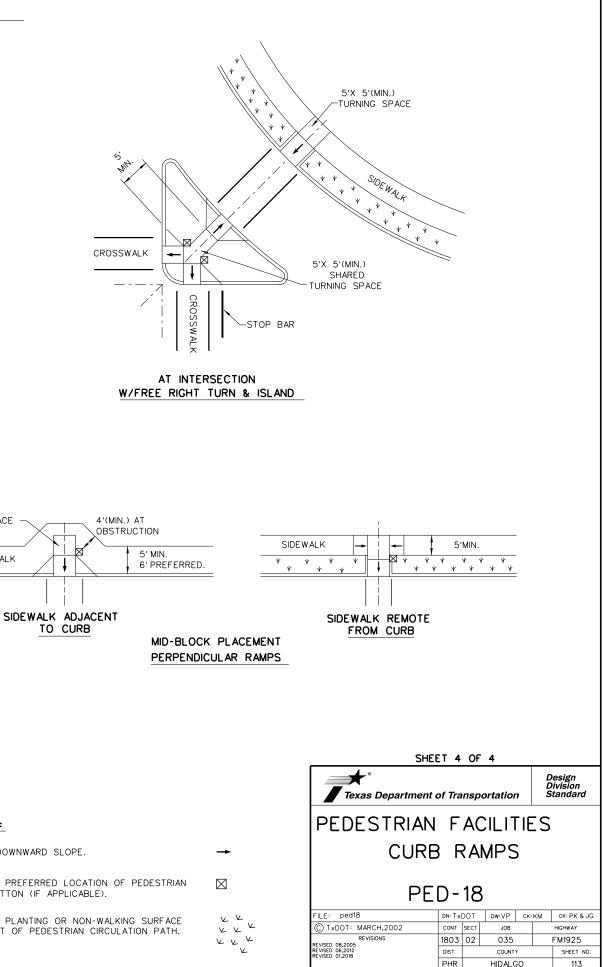
SHOWS DOWNWARD SLOPE.

DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON (IF APPLICABLE).

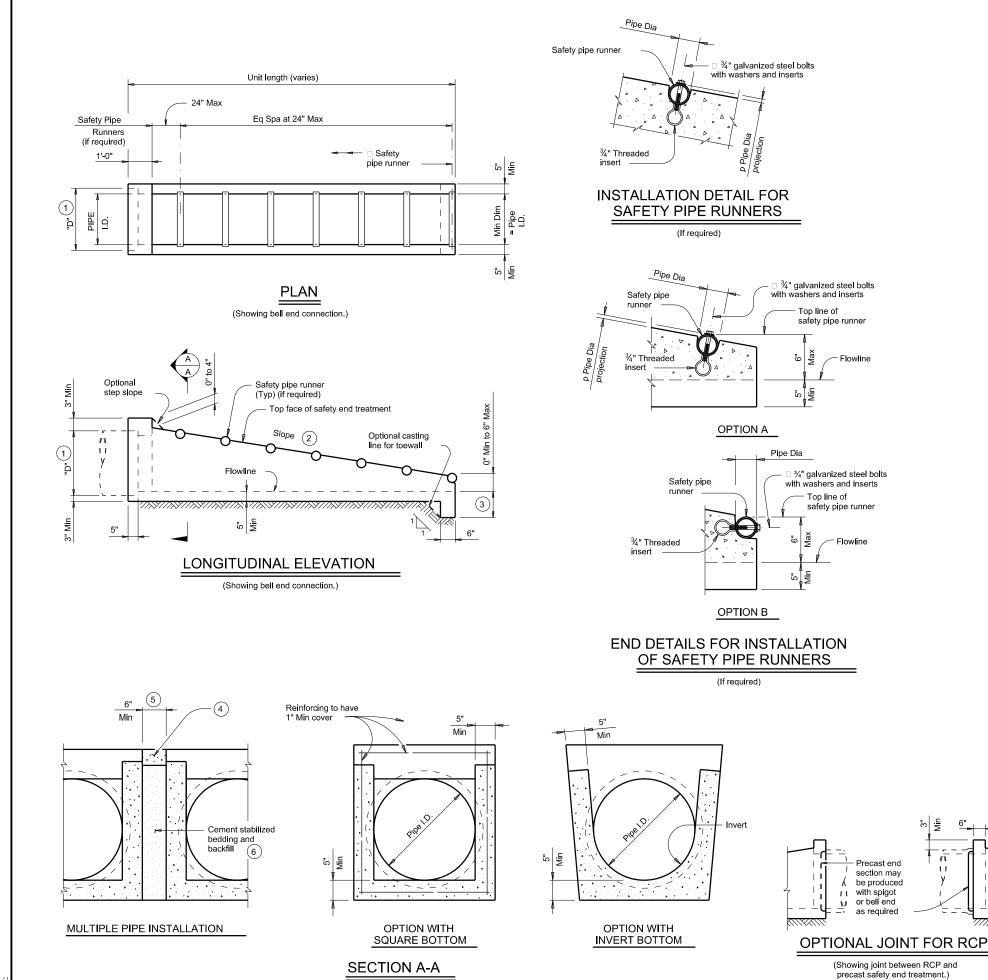
DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.

5'X 5'(MIN.) TURNING SPACE 4'(MIN.) AT OBSTRUCTION 5' MIN. SIDEWALK

TO CURB



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	RCP	TP Wall				Pipe Runners Required			quired Pipe unner Size	
Pipe I.D.	Wall "B" Thickness	Thickness	"D"	Slope	Min Length	Single Pipe	Multiple Pipe	Nominal Dia.	O.D.	I.D.
12"	2"	1.15"	17.00"	6:1	4' - 9"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
15"	2 ¼"	1.30"	20.50"	6:1	6' - 5"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
18"	2 ½"	1.60"	24.00"	6:1	8' - 0"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
24"	3"	1.95"	31.00"	6:1	11' - 3"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
30"	3 1⁄2"	2.65"	38.50"	6:1	14' - 8"	No	Yes	4" STD	4.500"	4.026"
36"	4"	2.75"	45.50"	6:1	17' - 11"	Yes	Yes	4" STD	4.500"	4.026"
42"	4 1⁄2"	2.7"	52.50"	6:1	21' - 2"	Yes	Yes	4" STD	4.500"	4.026"

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# **REQUIREMENTS FOR** CULVERT PIPES AND SAFETY PIPE RUNNERS

(1) Dimension "D" is based on reinforced concrete pipe (RCP) meeting the requirements of ASTM C-76, Class III, (RCP Wall "B" thickness). Adjust "D" for any other wall thickness used. For thermoplastic pipe (TP) take into account the annular space requirements for grouted connections.

(2) Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required for vehicle safety.

(3) Toewall to be used only when dimension is shown elsewhere in the plans.

(4) Fill the top 4" of void between precast end treatments with concrete riprap. Concrete riprap is considered subsidiary to the Item 467, "Safety End Treatment."

(5) Adjust clear distance between pipes to provide for the minimum distance between safety end treatments.

(6) Provide cement stabilized bedding and backfill in accordance with the Item 400, "Excavation and Backfill for Structures." Bedding and backfill is considered subsidiary to the Item 467, "Safety End Treatment." When concrete riprap is specified around the safety end treatment, backfill as directed by Engineer.

(7) Thermoplastic pipe wall thickness may vary. Adjust accordingly. Thermoplastic pipe requires the safety end treatments to have a bell end for grouted connections.

### GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe (RCP), and thermoplastic pipe (TP) may be used for TYPE II end treatment as specified in Item "Safety End Treatment."

When precast safety end treatment is used as a Contractor's alternate to mitered RCP, riprap will not be required unless noted otherwise on the plans.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise

Manufacture this product in accordance with Item 467, "Safety End Treatment" except as noted below :

A. Provide minimum reinforcing of #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6"x6" - D12 x D12

or 5"x5" - D10 x D10 welded wire reinforcement (WWR).

B. For precast (steel formed) sections, provide Class "C" concrete (f'c = 3,600 psi).

At the option and expense of the Contractor the next larger size of safety end treatment may be furnished, as long as the "D" dimension cast is that of the required size of pipe.

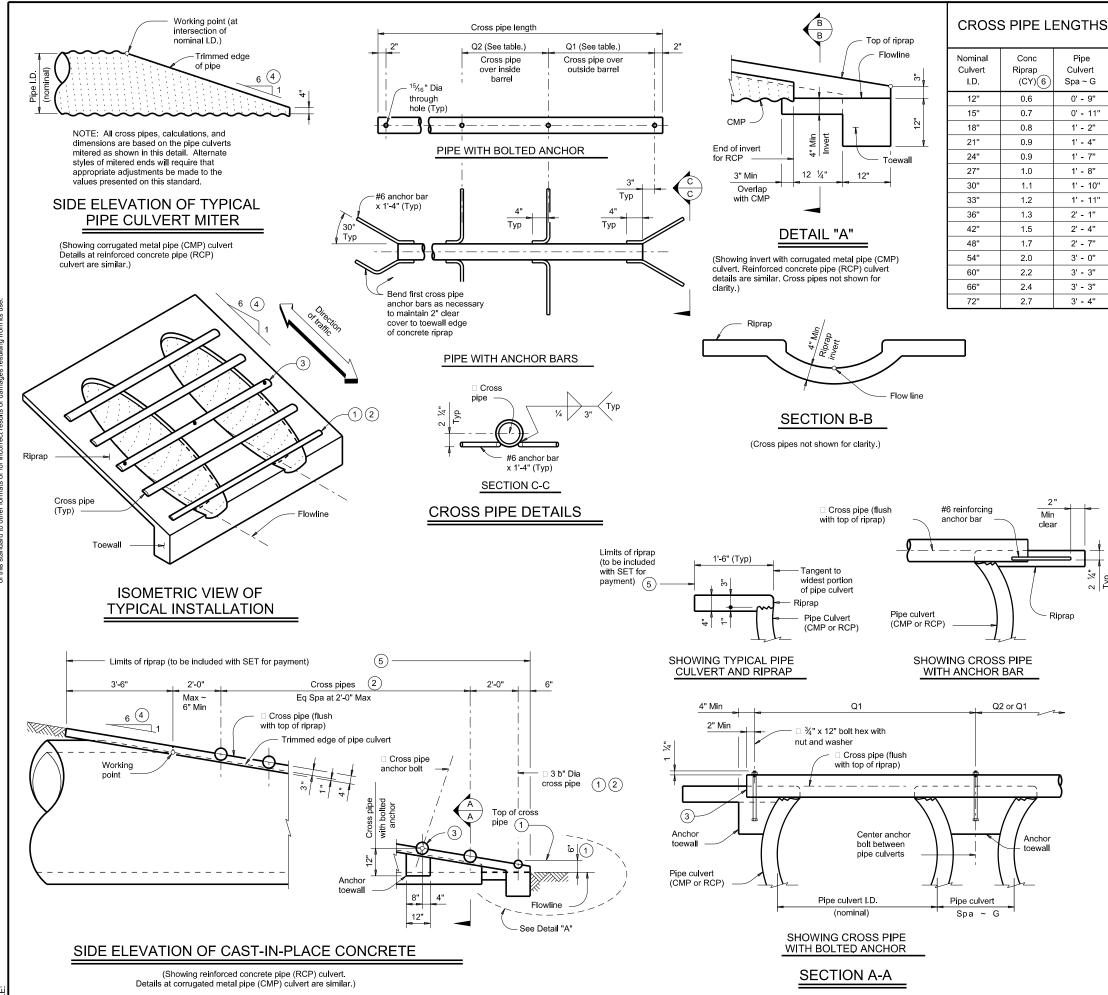
Pipe runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Provide pipe runners meeting the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52. Galvanize all steel components except reinforcing steel after fabrication.

Repair galvanizing damaged during transport or construction in accordance with the specifications.

Connect RCP using the Optional Joint for RCP detail shown or in accordance with Item 464, "Reinforced Concrete Pipe." Connect TP by grouting. See Pipe and Box Grouted Connections (PBGC) standard for grouted connections with TP and precast safety end treatment.

Texas Department	7	Bridge Division Standard							
PRECAST SAFETY END TREATMENT TYPE II ~ PARALLEL DRAINAGE									
TYPE II ~ PAF									
TYPE II ~ PAF		DRAIN							
TYPE II ~ PAF			SF		ск: GAF				
	DN: RLW	PSET-	SF	כ					
FILE: CTxDOT February 2020 REVISIONS	DN: RLW		SF	<b>D</b> JTR	ск: GAF				
FILE: CTxDOT February 2020	DN: RLW	PSET-	SF	<b>D</b> JTR	CK: GAF HIGHWAY				

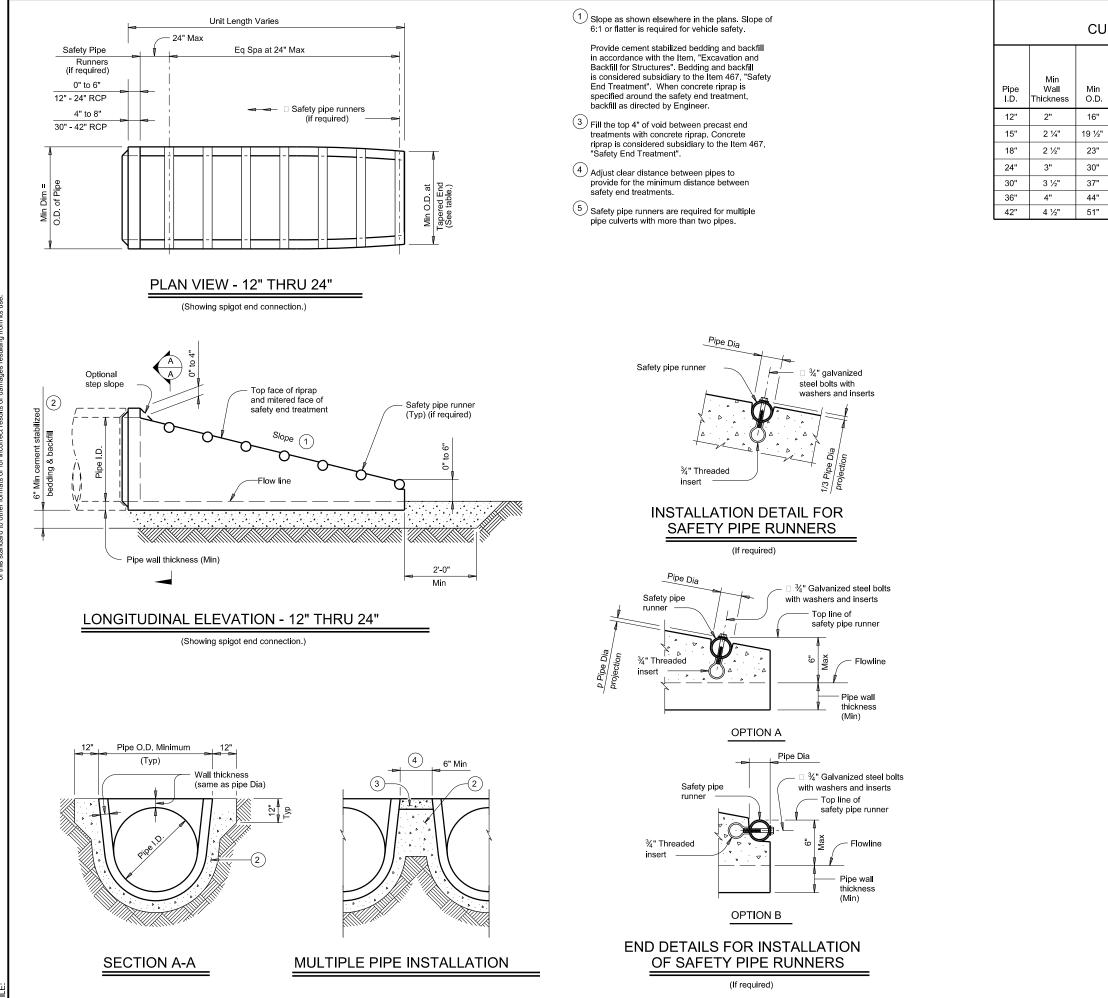


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# CROSS PIPE LENGTHS, REQUIRED PIPE SIZES, AND RIPRAP QUANTITIES

, R	EQUIRI	ED PIPE S	SIZES, AN	ID RIPRAP QUANTITIES	2
1	Single Barrel ~ Q1	Multi- Barrel ~ Q1	Q2	Conditions for Use of Cross Pipes	Cross Pipe Sizes
	N/A N/A N/A N/A	2' - 1" 2' - 5" 2' - 10" 3' - 2" 3' - 6"	1' - 9" 2' - 2" 2' - 8" 3' - 1" 3' - 7"	3 or more pipe culverts	3" Std (3.500" O.D.)
	N/A	3' - 10"	3' - 11"	3 or more pipe culverts	
	N/A	4' - 2"	4' - 4"	2 or more pipe culverts	3 ½" Std
	4' - 2"	4' - 5"	4' - 8"	All pipe culverts	(4.000" O.D.)
	4' - 5"	4' - 9"	5' - 1"	All pipe culverts	4" Std
	4' - 11"	5' - 5"	5' - 10"		(4.500" O.D.)
	5' - 5"	6' - 0"	6' - 7"		
	5' - 11"	6' - 9"	7' - 6"		5" Std
	6' - 5"	7' - 4"	8' - 3"	All pipe culverts	(5.563" O.D.)
	6' - 11" 7' - 5"	7' - 10" 8' - 5"	8' - 9" 9' - 4"		
	<ul> <li>Provid shown for the shown for the</li> <li>Install a bolt into the conner install</li> <li>Match of 6:1</li> <li>Ripray concerned to the shown for the shown f</li></ul>	h in the table. PI e first bottom pip the third cross ed connection. If e cross pipe so action to allow cl all other cross i n cross slope as or flatter is requ p placed beyond ete riprap in acc tities shown are RCP) culvert. Fr pipe (CMP) cul- p quantities are <b>ERIAL NOTE</b> hetic fibers liste ial Producer Lis rcing in riprap cd ide cross pipes E or S, Gr B), A ide ASTM A307 ERAL NOTE is pipes are des is at yield as red st yield as red threatment of a Transportation ty end treatment of those installatic verse the openir pipes.	except the first the form the bic provide a 3 1#2" set. pipe from the bic Ensure that ripra as to permit dising the set of the set	An will be paid for as em 432, "Riprap". one reinforced concrete culverts or for corrugated will need to be adjusted. information only. a for Concrete" used in lieu of steel noted otherwise. equirements of ASTM A53 B), or API 5LX52. the concrete reinforcing, after ged during transport or pecifications. ersing load of 10,000 Research Report 280-2F, tel-Drainage Structures", n 1981. herein are intended for f control vehicles are likely sty perpendicular to the cessary inverts in accordance tiprap".	
		nent for riprap a r each Safety E		<ul> <li>e</li> <li>€</li> </ul>	Bridge
			Теха	s Department of Transportation	Division Standard
				ETY END TREATME FOR 12" DIA TO 72" DIA PIPE CULVERTS PE II ~ PARALLEL DRAINAGE	

	SETP-PD								
FILE:	setppdse-20.dgn		DN: GAF	:	ск: САТ	DW;	JRP		ск: GAF
<b>CTXDOT</b>	February 2020		CONT	SECT	JOB			HIG	HWAY
	REVISIONS		1803	02	035			FM	1925
			DIST		COUNTY	,		:	SHEET NO.
			PHR		HIDALG	0			115



## **REQUIREMENTS FOR** CULVERT PIPES AND SAFETY PIPE RUNNERS

Min O.D.	Min Reinf Requirements		Min	Pipe Ri Require		Required P	ipe Runner	Sizes
at Tapered End	(sq. in. per ft. of Pipe)	Max Slope	Length of Unit	Single Pipe	Multiple Pipe	Nominal Dia	O.D.	I.D.
16"	0.07 Circ.	6:1	4' - 0"	No	5	3" STD	3.500"	3.068"
19"	0.07 Circ.	6:1	5' - 8"	No	5	3" STD	3.500"	3.068"
21 ½"	0.07 Circ.	6:1	7' - 3"	No	5	3" STD	3.500"	3.068"
27"	0.07 Circ.	6:1	10' - 6"	No	5	3" STD	3.500"	3.068"
31"	0.18 Circ.	6:1	12' - 1"	No	Yes	4" STD	4.500"	4.026"
36"	0.19 Ellip.	6:1	15' - 4"	Yes	Yes	4" STD	4.500"	4.026"
41 ½"	0.23 E <b>∥i</b> p.	6:1	18' - 7"	Yes	Yes	4" STD	4.500"	4.026"

### MATERIAL NOTES:

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Provide pipe runners meeting the requirements of ASTM A53 (Type E or S, Gr B), ASTM A500 Gr B, or API 5LX52.

Galvanize steel components except reinforcing steel after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specifications.

### GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe (RCP) may be used for TYPE II end treatment as specified in Item 467, "Safety End Treatment".

When precast safety end treatment is used as a Contractor's alternate to mitered RCP, riprap will not be required unless noted otherwise on the plans.

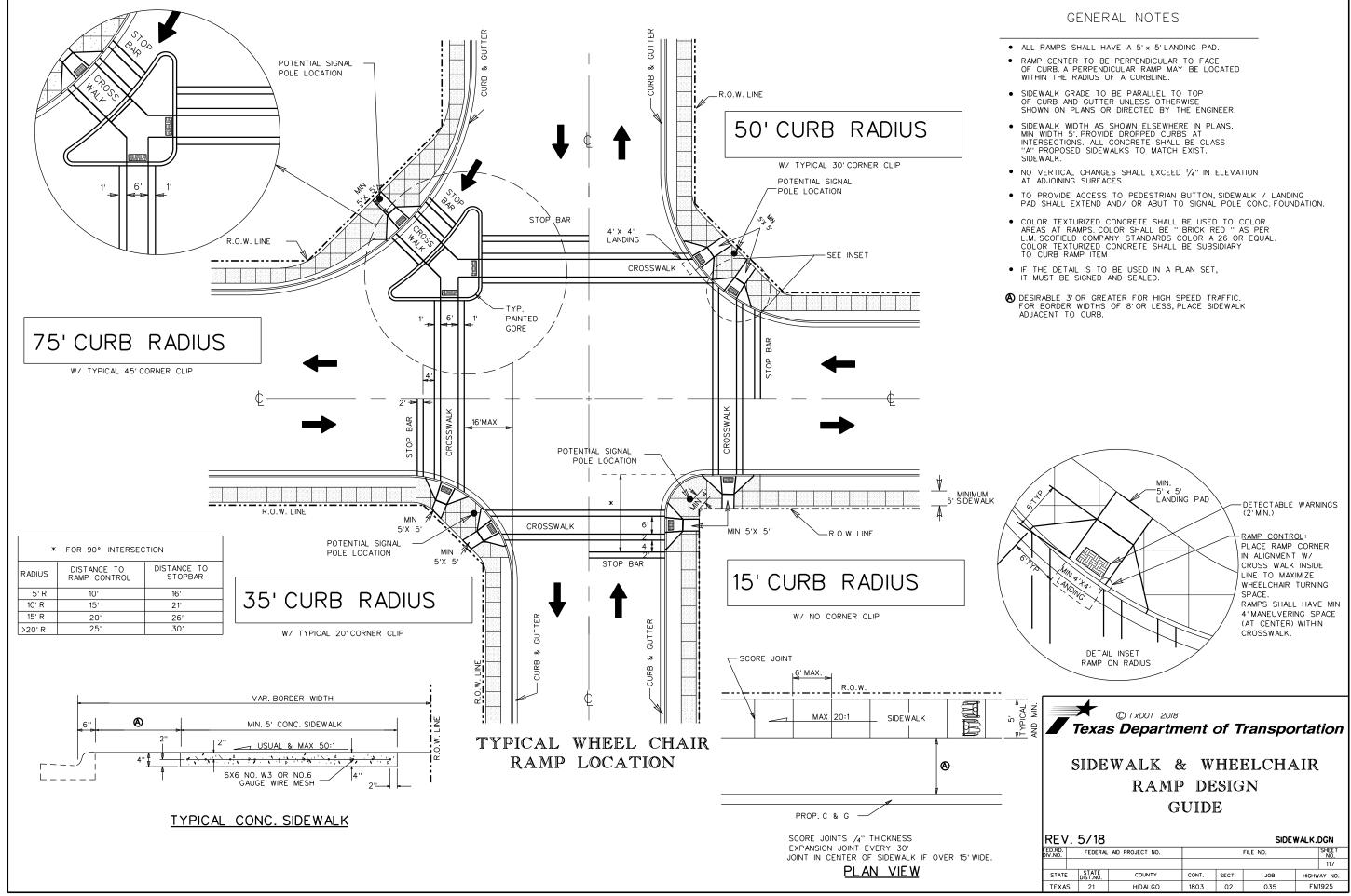
Manufacture precast concrete end sections in accordance with Item 464, "Reinforced Concrete Pipe" and in accordance with ASTM Specification C-76, Class III, Wall B for circular pipe.

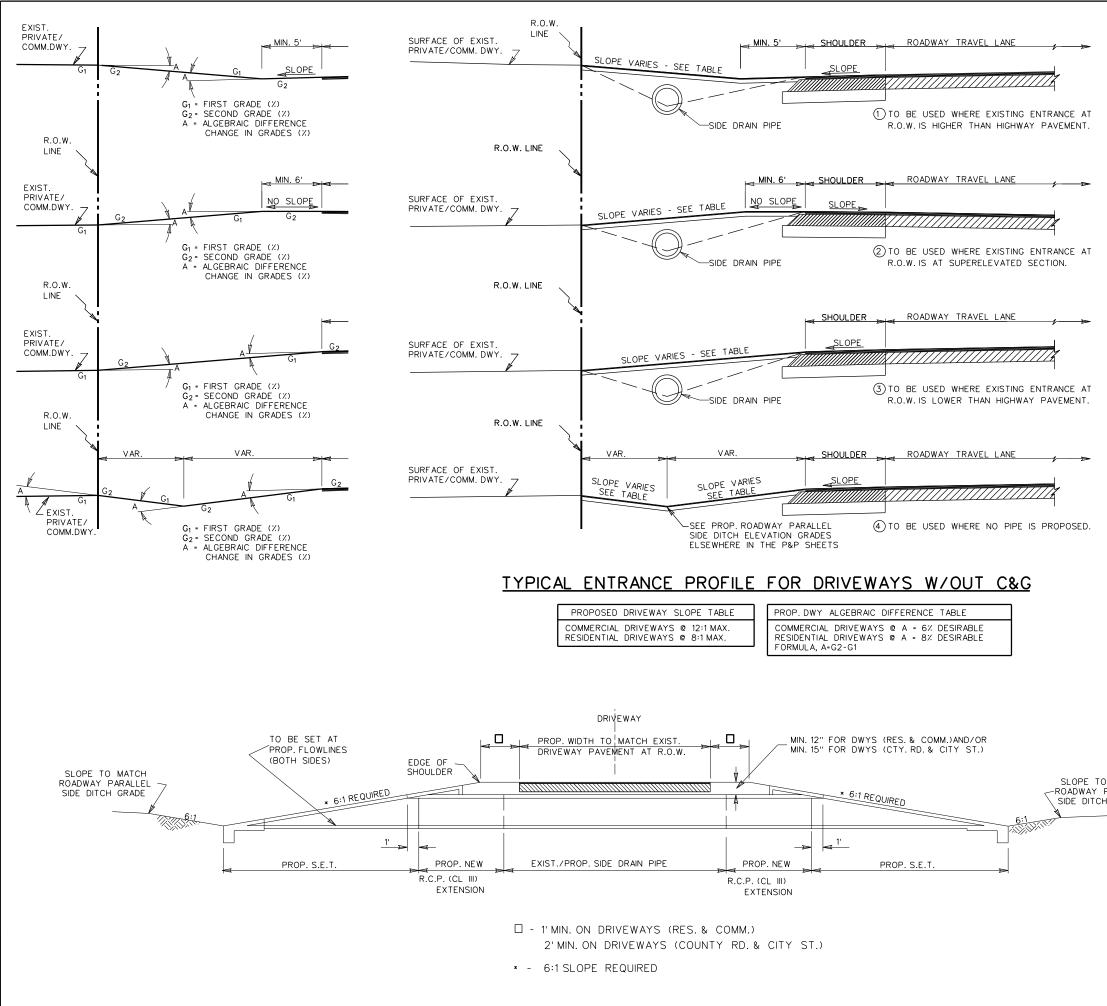
Provide precast concrete end sections with a spigot or bell end for compatibility to upstream or downstream end conditions with sufficient annular space to allow for grout, mortar, cold applied asphalt joint compound or pre-formed plastic gasket material. Methods of lifting shall be provided by the manufacturer for ease of

loading, unloading and installation.

Pipe runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Texas Department	Bridge Division Standard									
PRECAST SAFETY END										
TREATM	TREATMENT									
TYPE II ~ PARA	TYPE II ~ PARALLEL DRAINAGE									
	F	PSI	ET-R	Ρ						
FILE: psetrpss-20.dgn	DN: RLV	V	ск: KLR	DW:	JTR	ск: GAF				
CTxDOT February 2020	CONT	SECT	JOB			HIGHWAY				
REVISIONS	1803	02	035			FM 1925				
DIST COUNTY SHEET NO.										
PHR HIDALGO 116										





### NOTES:

ALL ENTRANCES CONSTRUCTED ON THIS PROJECT ARE SUBJECT TO CONCURRENCE WITH EXISTING GOVERNING REGULATIONS AS SET OUT BY THE STATE - TEXAS TRANSPORTATION COMMISSION.

ENTRANCE'S BASE AND SURFACING MAY BE EXTENDED BEYOND R.O.W. LINE AS REQUIRED TO MEET EXISTING DRIVEWAY GRADE IN A SATISFACTORY MANNER OF WHICH NO STEEPER THAN 12:1 FOR COMMERCIAL DRIVEWAY AND 8:1 FOR RESIDENTIAL DRIVEWAY SLOPE WILL BE CONSTRUCTED.

ALL FLEXIBLE BASE USED FOR PRIVATE DRIVES & COMMERCIAL DRIVES WILL NOT REQUIRE LIME TREATMENT.

EXACT LOCATIONS, DIMENSIONS, AND TYPE TO BE ESTABLISHED DURING CONSTRUCTION BY THE ENGINEER.

PROP. WIDTH OF DRIVEWAYS TO MATCH EXISTING WIDTH AT R.O.W. LINE.

114 •/SY ACP (COMPACTED) IS EQUAL TO 1 IN. DEPTH, 171 •/SY ACP (COMPACTED) IS EQUAL TO  $11/_2$ IN. DEPTH.

SIDE DRAIN PIPES TO BE INSTALLED WHERE ROADWAY DITCH DRAINAGE IS NECESSARY, AS INDICATED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.

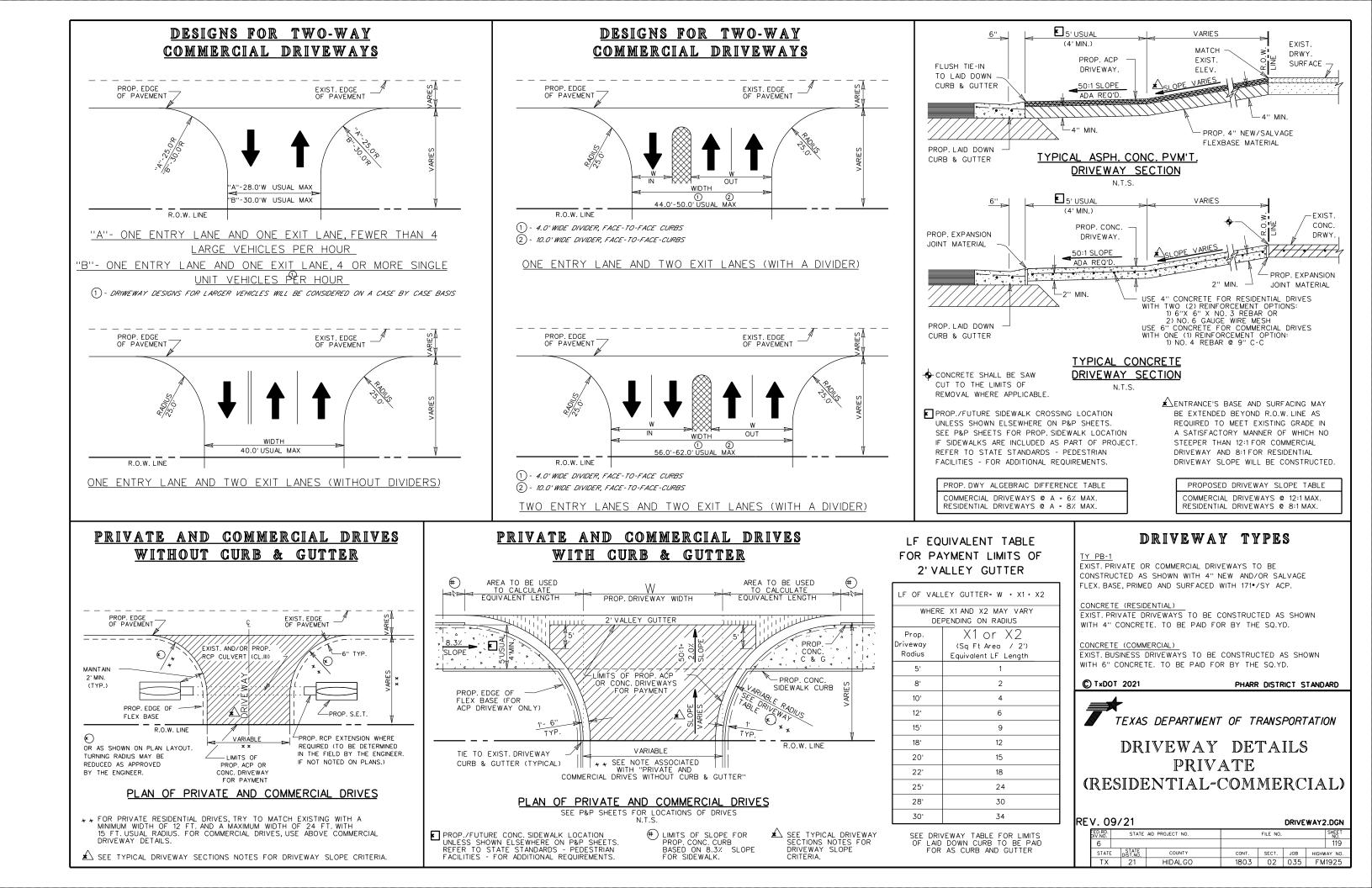
SIDE DRAIN PIPES TO BE INSTALLED WITH A MINIMUM OF 12" COVER WITH PROPOSED RESIDENTIAL & COMMERCIAL DRIVEWAY MATERIAL OR 15" COVER WITH PROPOSED COUNTY ROAD & CITY STREET ROADWAY MATERIAL.

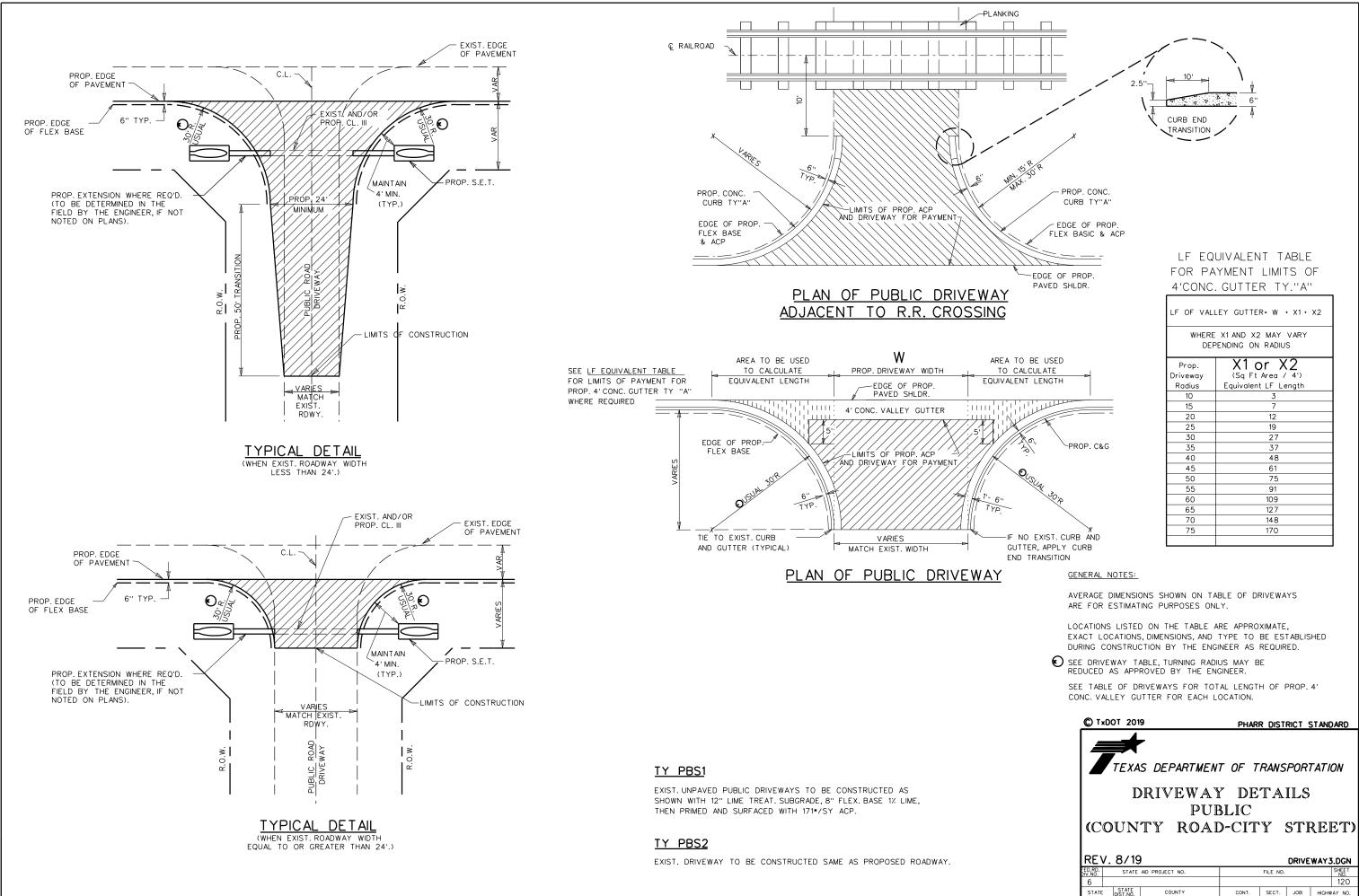
AVERAGE DRIVEWAY DIMENSIONS SHOWN ON TABLE OF DRIVEWAYS (ELSEWHERE IN PLANS) ARE FOR ESTIMATING PURPOSES ONLY. ACTUAL DRIVEWAY DIMENSIONS MAY BE CHANGED BY THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

THE RATE OF PRIME COAT SHALL BE 0.10 GAL/SY FOR PRIVATE AND/OR COMMERCIAL DRIVEWAYS AND 0.20 GAL/SY FOR PUBLIC DRIVEWAYS (COUNTY ROADS AND/OR CITY STREETS).

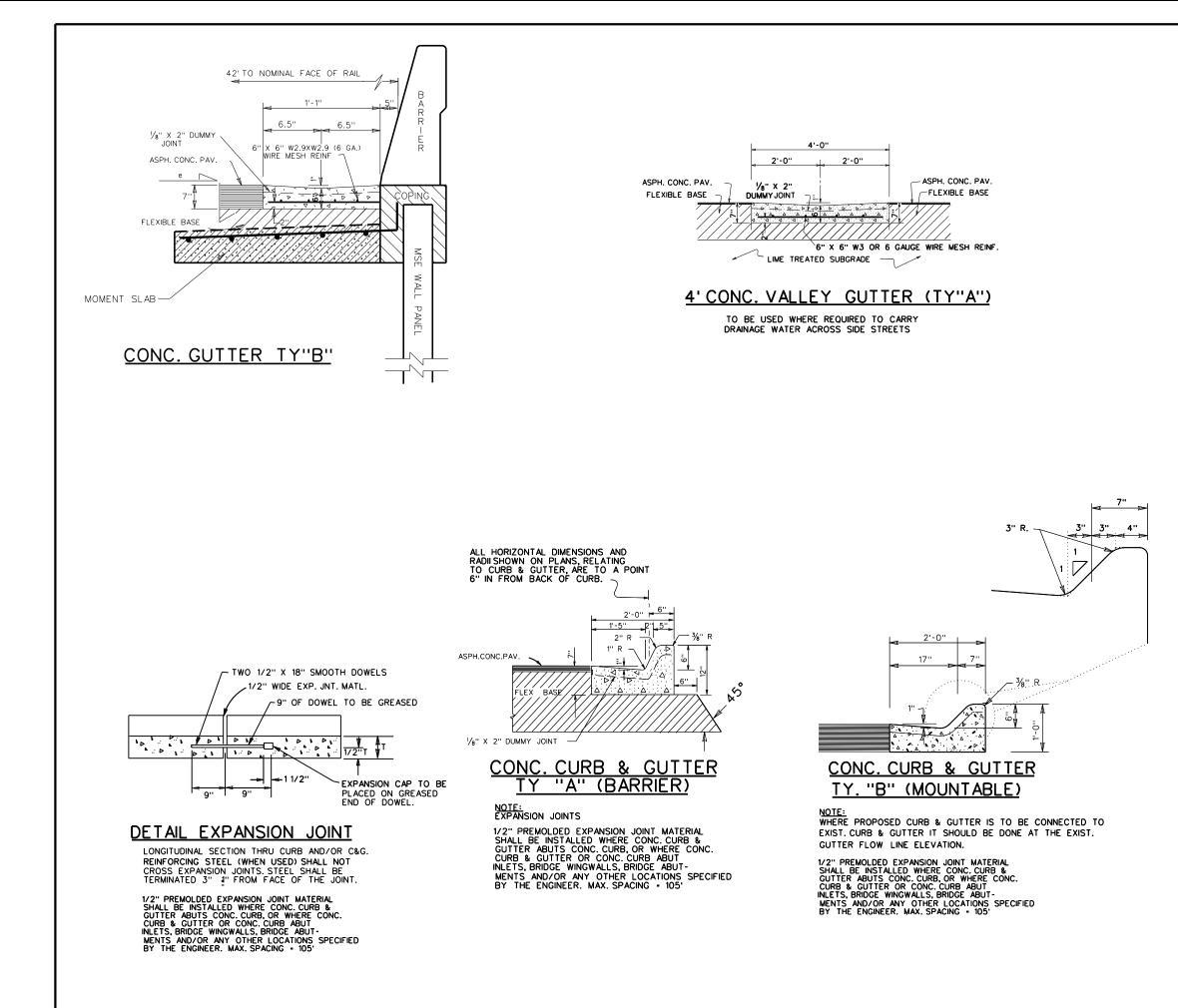
TYPICALLY A CHANGE IN GRADE OF THREE PERCENT (3%) OR LESS AND A DISTANCE BETWEEN CHANGES IN GRADE OF AT LEAST ELEVEN FEET (11') ACCOMMODATES MOST VEHICLES. HOWEVER, LITERATURE SUGGESTS THAT A SIX PERCENT (6%) TO EIGHT PERCENT (8%) CHANGE IN GRADE MAY OPERATE EFFECTIVELY. INDIVIDUAL SITE CONDITIONS SHOULD BE EVALUATED TO ACCOMMODATE THE VEHICLE FLEET USING THE DRIVEWAY.

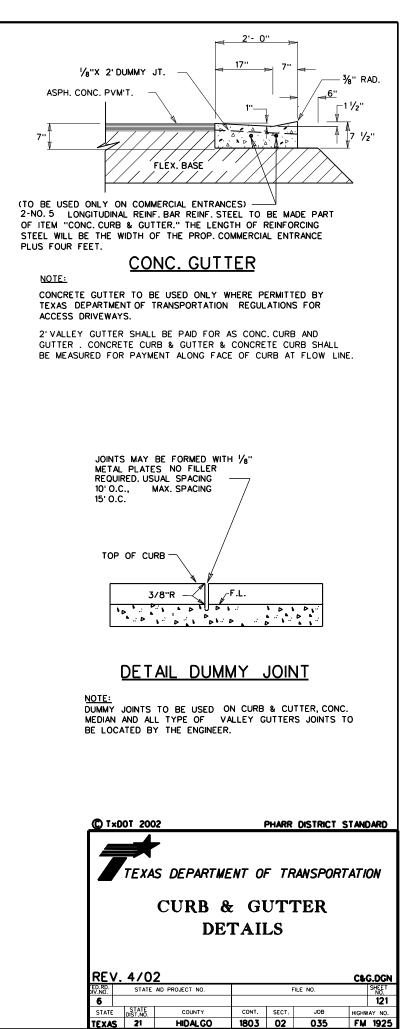
) МАТСН							
PARALLEL H GRADE	© T×D	OT 202	0	PHAR	R DIST	RICT S	STANDARD
			-				
		ΤΕΧΑ	S DEPARTMEN	T OF T	RANS	POR	TATION
			DRIV	EWA	Y		
			PROFILE			_S	
	REV	. 3/2	2020			DRIVE	WAY1.DGN
	FED.RD. DIV.NO.	STATE	AID PROJECT NO.		FILE NO.		SHEET NO.
	6						118
	STATE	STATE DIST.NO.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
	TX	21	HIDALGO	1803	02	035	FM1925

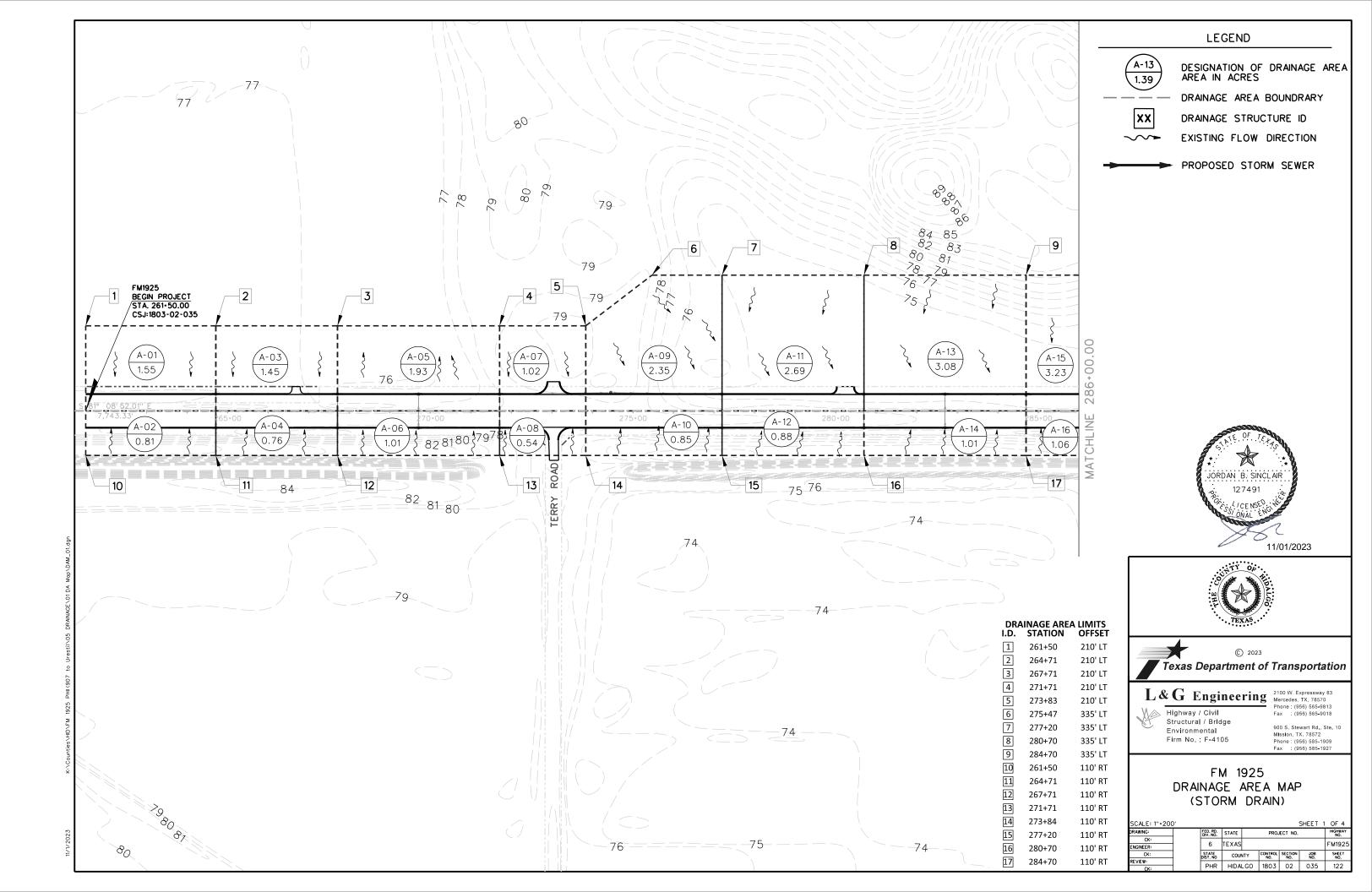


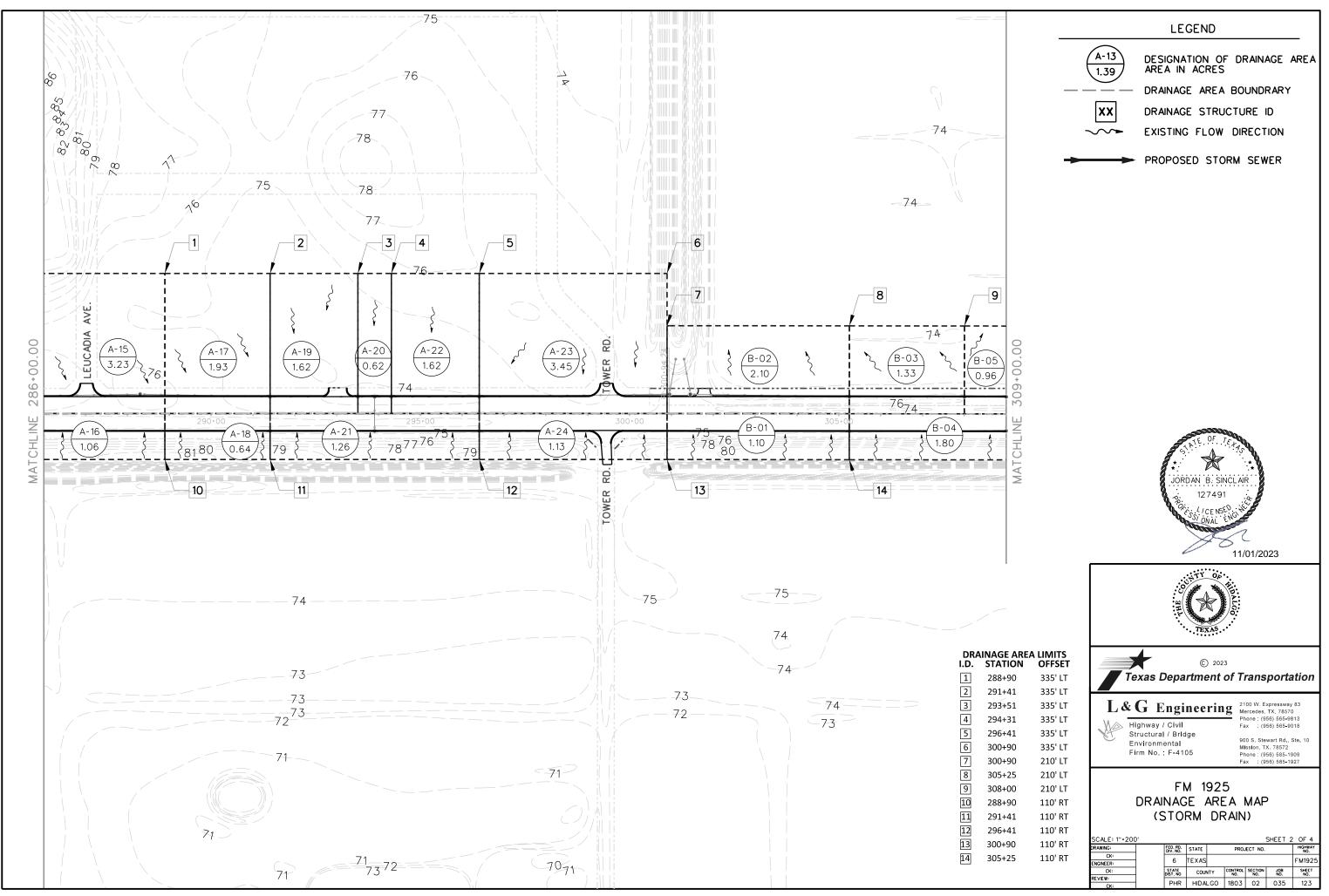


RE	/. 8/19				DRIVE	WAY 3.DGN
FED.RD. DIV.NO.	STATE	AID PROJECT NO.		FILE NO.		SHEET NO.
6						120
STATE	STATE DIST.NO.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
ΤX	21	HIDALGO	1803	02	035	FM1925



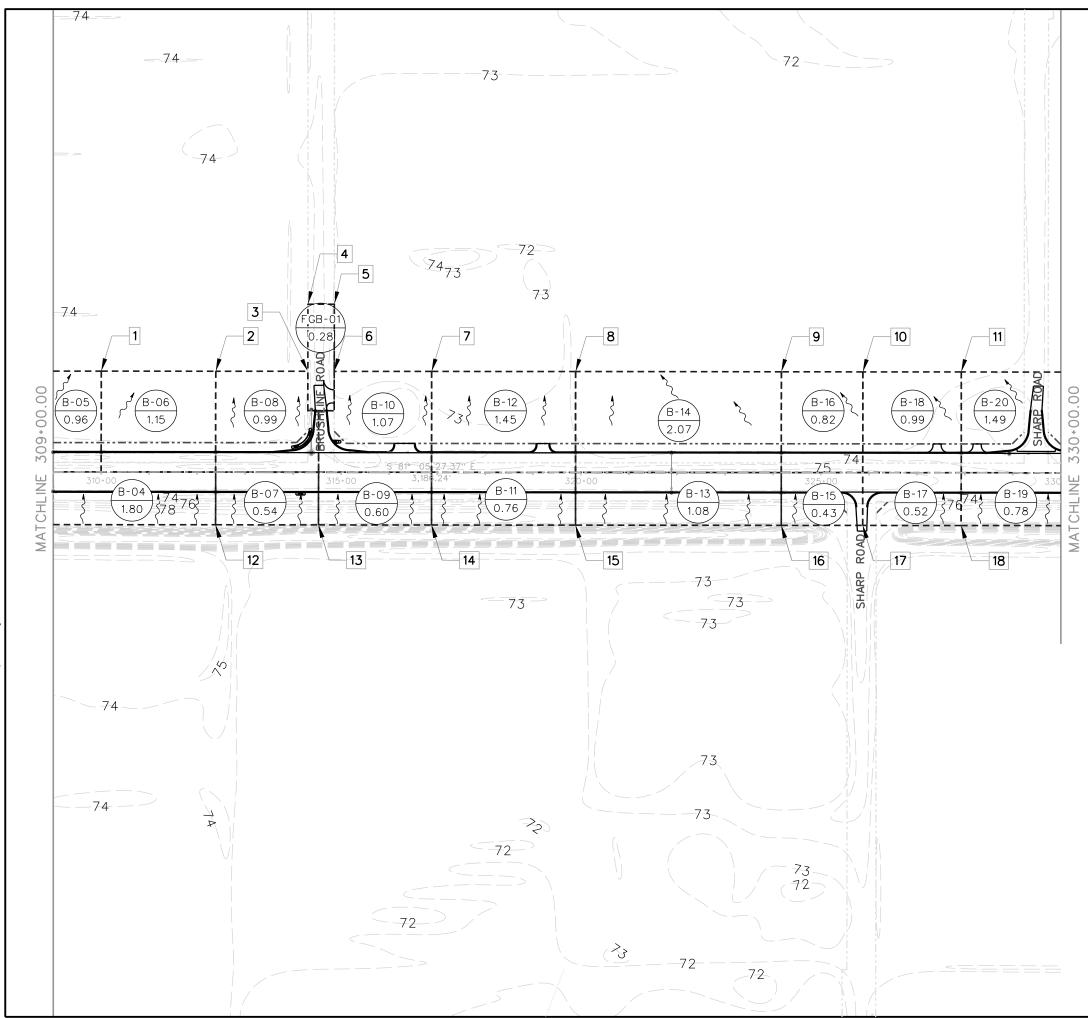


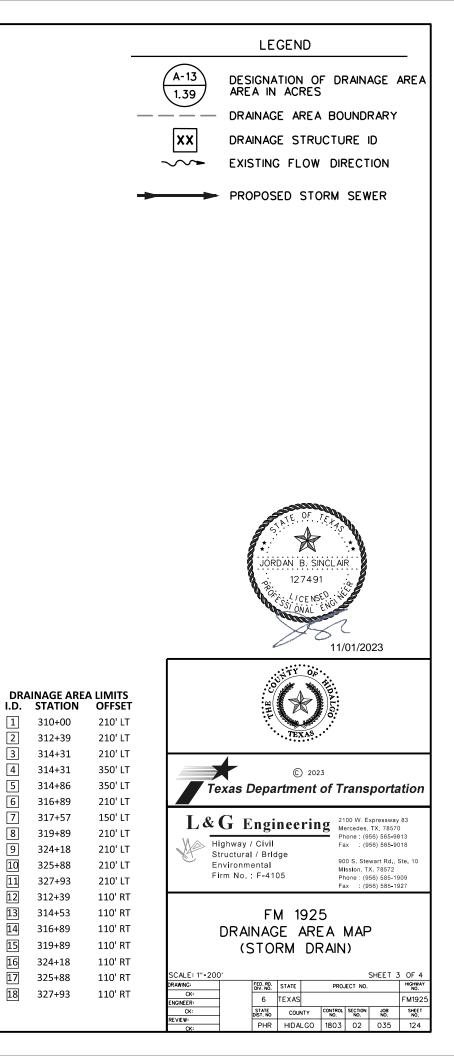




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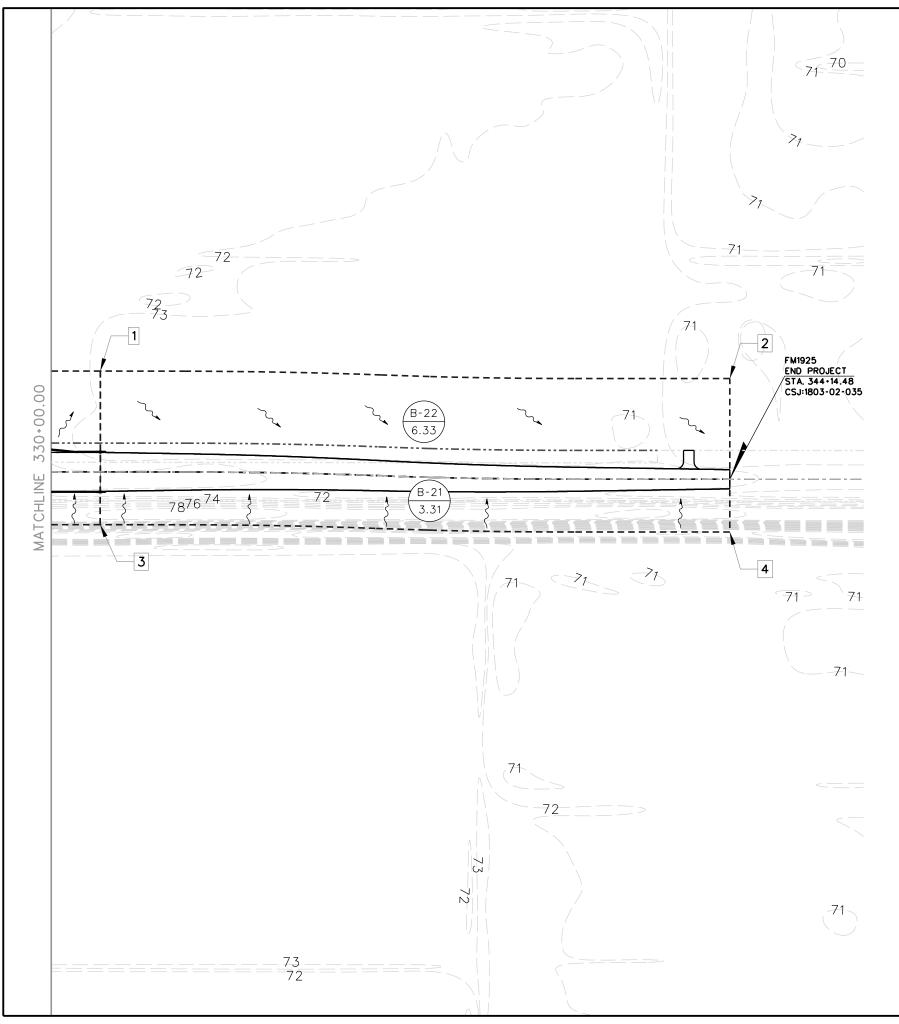
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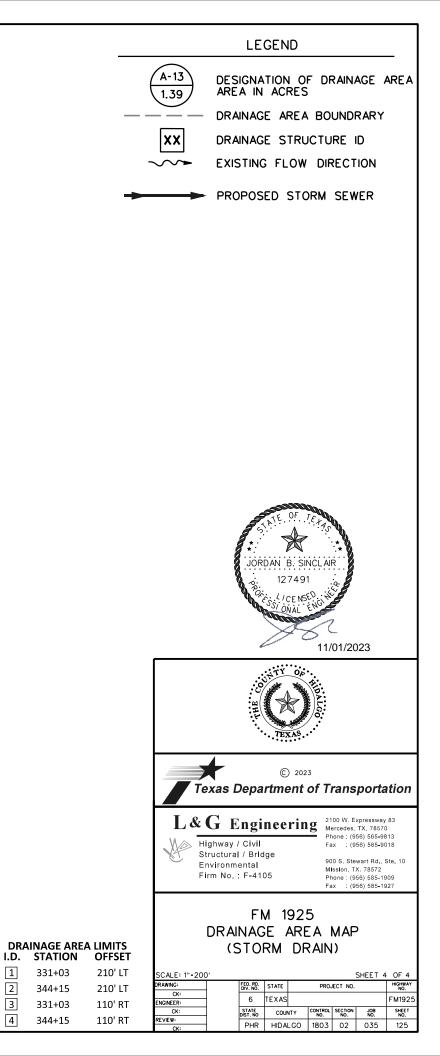




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17





		7074		1	TOTAL			TOTAL						1
ARE A ID	TOTAL AREA (ocres)	SUBAREA	1 Subarea 1 Description	Suborea 1 "C" Volue	TOTAL SUBAREA 2	Subarea 2 Description	Subarea 2 "C" Value	SUBAREA 3	Subarea 3 Description	Subarea 3 "C" Value	Total "C" Value	Tc (min)	Intensity (in/hr)	/Discharge (ft/s)
A-01	1.55	0.31	Roadway/Pavement	0.90	1.23	Agricultural/Unimproved	0.20	0.00		0.00	0.34	22.71	4.39	2.32
A-02	0.81	0.31	Roadway/Pavement	0.90	0.50	Agricultural/Unimproved	0.20	0.00		0.00	0.47	10.72	6.20	2.36
A-03	1.45	0.29	Roadway/Pavement	0.90	1.15	Agricultural/Unimproved	0.20	0.00		0.00	0.34	21.86	4.48	2.22
4-04	0.76	0.29	Roadway/Pavement	0.90	0.47	Agricultural/Unimproved	0.20	0.00		0.00	0.47	10.00	6.36	2.27
A-05	1.93	0.39	Roadway/Pavement	0.90	1.54	Agricultural/Unimproved		0.00		0.00	0.34	20.79	4.60	3.03
A-06	1.01	0.39	Roadway/Pavement	0.90	0.62	Agricultural/Unimproved	0.20	0.00		0.00	0.47	10.00	6.36	3.02
4-07	1.02	0.37	Roadway/Pavement	0.90	0.65	Agricultural/Unimproved		0.00		0.00	0.46	19.87	4.71	2.20
4-08	0.54	0.27	Roadway/Pavement	0.90	0.27	Agricultural/Unimproved		0.00		0.00	0.55	10.65	6.22	1.84
4-09	2.35	0.53	Roadway/Pavement	0.90	1.82	Agricultural/Unimproved		0.00		0.00	0.36	24.22	4.24	3.57
A-10	0.85	0.33	Roadway/Pavement	0.90	0.52	Agricultural/Unimproved		0.00		0.00	0.47	11.61	6.01	2.40
A-11	2.69	0.61	Roadway/Pavement	0.90	2.08	Agricultural/Unimproved		0.00		0.00	0.36	30.74	3.71	3.58
A-12	0.88	0.34	Roadway/Pavement	0.90	0.54	Agricultural/Unimproved		0.00		0.00	0.47	11.41	6.05	2.52
A-13	3.08	0.63	Roadway/Pavement	0.90	2.45	Agricultural/Unimproved		0.00		0.00	0.34	25.88	4.09	4.32
A-14	1.01	0.39	Roadway/Pavement	0.90	0.62	Agricultural/Unimproved		0.00		0.00	0.47	10.27	6.30	2.99
A-15	3.23	0.18	Commercial	0.50	0.86	Roadway/Pavement	0.90	2.20	Agricultural/Unimproved	0.20	0.40	28.61	3.87	5.01
A-16	1.06	0.41	Roadway/Pavement	0.90	0.65	Agricultural/Unimproved		0.00		0.00	0.47	13.01	5.74	2.86
A-17	1.93	0.30	Commercial	0.50	0.40	Roadway/Pavement	0.90	1.24	Agricultural/Unimproved	0.20	0.39	25.74	4.10	3.09
A-18	0.64	0.25	Roadway/Pavement	0.90	0.39	Agricultural/Unimproved		0.00		0.00	0.47	10.00	6.36	1.90
A-19	1.62	0.95	Commercial	0.50	0.39	Roadway/Pavement	0.90	0.28	Agricultural/Unimproved	0.20	0.55	25.22	4.15	3.65
4-20	0.62	0.38	Commercial	0.50	0.13	Roadway/Pavement	0.90	0.11	Agricultural/Unimproved	0.20	0.53	21.74	4.50	1.47
4-21	1.26	0.49	Roadway/Pavement	0.90	0.78	Agricultural/Unimproved		0.00		0.00	0.47	11.04	6.13	3.64
4-22	1.62	0.58	Commercial	0.50	0.33	Roadway/Pavement	0.90	0.70	Agricultural/Unimproved	0.20	0.45	22.51	4.41	3.22
A-23	3.45	0.86	Roadway/Pavement	0.90	2.59	Agricultural/Unimproved		0.00		0.00	0.38	31.79	3.64	4.70
A-24	1.13	0.50	Roadway/Pavement	0.90	0.63	Agricultural/Unimproved	0.20	0.00		0.00	0.51	13.43	5.66	3.26

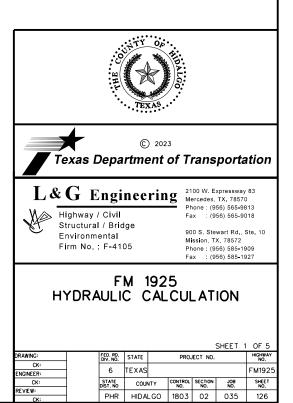
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ARE A ID	TOTAL AREA (ocres)	TOTAL SUBAREA 1 (ocres)	Subarea 1 Description	Suboreo "C" Volue	TOTAL SUBAREA 2	Suboreo 2	Description	Subarea 2 "C" Value	TOTAL SUBAREA 3	Subarea 3 Description	Subarea 3 "C" Value	Total "C" Value	Tc (min)	Intensity (in/hr)	Discharge (ft/s)
B-01	1.10	0.43	Roadway/Pavement	0.90	0.67	Agricultural/	Unimproved	0.20	0.00		0.00	0.47	12.94	5.75	2.98
B-02	2.10	0.42	Roadway/Pavement	0.90	1.68		Unimproved	0.20	0.00		0.00	0.34	22.95	4.37	3.13
B-03	1.33	0.27	Roadway/Pavement	0.90	1.06	Agricultural/	Unimproved	0.20	0.00		0.00	0.34	22.29	4.44	2.01
B-04	1.80	0.70	Roadway/Pavement	0.90	1.11	Agricultural/	Unimproved	0.20	0.00		0.00	0.47	12.85	5.77	4.89
B-05	0.96	0.20	Roadway/Pavement	0.90	0.77	Agricultural/	Unimproved	0.20	0.00		0.00	0.34	20.08	4.68	1.54
B-06	1.15	0.23	Roadway/Pavement	0.90	0.92	Agricultural/	Unimproved	0.20	0.00		0.00	0.34	21.71	4.50	1.77
B-07	0.54	0.21	Roadway/Pavement	0.90	0.33	Agricultural/	Unimproved	0.20	0.00		0.00	0.47	11.20	6.10	1.55
B-08	0.99	0.26	Roadway/Pavement	0.90	0.73	Agricultural/	Unimproved	0.20	0.00		0.00	0.39	20.60	4.62	1.77
B-09	0.60	0.23	Roadway/Pavement	0.90	0.37	Agricultural/	Unimproved	0.20	0.00		0.00	0.47	10.33	6.29	1.76
B-10	1.07	0.60	Commercial	0.50	0.30	Roadway/	Pavement	0.90	0.17	Agricultural/Unimproved		0.57	20.87	4.59	2.79
FGB-01		0.11	Roadway/Pavement	0.90	0.17	Agricultural/	Unimproved	0.20	0.00		0.00	0.47	20.26	4.66	0.62
B-11	0.76	0.29	Roadway/Pavement	0.90	0.47	Agricultural/	Unimproved	0.20	0.00		0.00	0.47	11.35	6.06	2.16
B-12	1.45	0.83	Commercial	0.50	0.29	Roadway/	Pavement	0.90	0.32	Agricultural/Unimproved		0.52	22.67	4.40	3.27
B-13	1.08	0.42	Roadway/Pavement	0.90	0.67	Agricultural/	Unimproved	0.20	0.00		0.00	0.47	11.68	6.00	3.05
B-14	2.07	0.42	Roadway/Pavement	0.90	1.65	Agricultural/	Unimproved	0.20	0.00		0.00	0.34	22.03	4.46	3.15
B-15	0.43	0.20	Roadway/Pavement	0.90	0.23	Agricultural/	Unimproved	0.20	0.00		0.00	0.53	10.00	6.36	1.43
B-16	0.82	0.17	Roadway/Pavement	0.90	0.65	Agricultural/	Unimproved	0.20	0.00		0.00	0.34	20.55	4.63	1.30
B-17	0.52	0.23	Roadway/Pavement	0.90	0.29	Agricultural/	Unimproved	0.20	0.00		0.00	0.51	10.00	6.36	1.67
B-18	0.99	0.20	Roadway/Pavement	0.90	0.70	Agricultural/	Unimproved	0.20	0.09	Residential (Single-Family	) 0.40	0.36	21.87	4.48	1.59
B-19	0.78	0.30	Roadway/Pavement	0.90	0.48	Agricultural/	Unimproved	0.20	0.00		0.00	0.47	12.03	5.92	2.18
B-20	1.49	0.47	Roadway/Pavement	0.90	0.74	Agricultural/	Unimproved	0.20	0.28	Residential (Single-Family		0.46	23.84	4.28	2.93
B-21	3.31	0.91	Roadway/Pavement	0.90	2.40	Agricultural/	Unimproved	0.20	0.00		0.00	0.39	41.53	3.09	4.01
B-22	6.33	0.98	Roadway/Pavement	0.90	4.83	Agricultural/	Unimproved	0.20	0.52	Residential (Single-Family	) 0.40	0.32	53.34	2.62	5.38

NOTES:

- 1. CALCULATIONS MADE BY "GEOPAK DRAINAGE" HYDRAULIC COMPUTER PROGRAM.
- 2. ALLOWABLE PONDING WIDTH = 22' AS PER TXDOT BRIDGE DIVISION HYDRAULIC MANUAL
- 3. SEWER CALCULATIONS BASED ON MANNING'S FORMULA.
- 4. RAINFALL FREQUENCY = 5 YR.
- 5. DRAINAGE AREA FLOWS DETERMINED BY THE RATIONAL METHOD:

Q=C×I×A

- Q = RATE OF RUNOFF (CFS) C = RATE OF RUNOFF (CFS) I- AVERAGE RAINFALL INTENSITY (IN/HR) A = DRAINAGE AREA (AC)





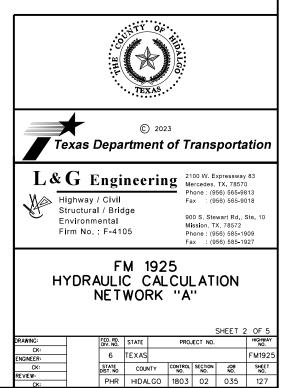
NETWORK "A"

							NODE H	IYDRAULIC	S							
Node ID	Node Type	Node Profile Type	Node Station	Discharge (ft/s)	Capacity (ft/s)	Max By Pass, Flow (ft/s)	By Paşs Flow (ft/s)	By Pass Flaw Into Node (ft/s)	By Pass Node ID	Node Length Actual (ft)	Max Ponded Depth (ft)	Computed Ponded Depth	Max Ponded Width (ft)	Computed Ponded Width	Ponded Width Right (ft)	Ponded Width Left (ft)
1.01				0.70	0.71	0.50	0.00									<u> </u>
A-01	Curb and Grate	On Grade	264+70.97	2.32	2.31	0.50	0.02	0.00	A-03	9.50	0.50	0.29	22.00	9.72	n/a	n/a
A-02	Curb and Grate	On Grade	264+70.97	2.36	2.34	0.50	0.02	0.00	A-04	9.50	0.50	0.29	22.00	9.78	n/a	n/a
A-03	Curb and Grate	On Grade	267+70.97	2.23	2.22	0.50	0.02	0.02	A-05	9.50	0.50	0.29	22.00	9.57	n/a	n/a
A-04	Curb and Grate	On Grade	267+70.97	2.29	2.27	0.50	0.02	0.02	A-06	9.50	0.50	0.29	22.00	9.66	n/a	n/a
A-05	Curb and Grate	Sag	269+70.97	3.08	17.80	0.50	0.00	0.05		14.00	0.50	0.41	22.00	14.38	9.47	8.40
A-06	Curb and Grate	Sag	269+70.97	3.05	17.80	0.50	0.00	0.03		14.00	0.50	0.40	22.00	14.29	9.44	8.37
A-07	Curb and Grate	On Grade	271+70.97	2.20	2.16	0.50	0.03	0.00	A-05	9.50	0.50	0.26	22.00	8.43	n/a	n/a
A-08	Curb and Grate	On Grade	271+70.97	1.84	1.82	0.50	0.02	0.00	A-06	9.50	0.50	0.24	22.00	7.84	n/a	n/a
MHA-01	Junction	On Grade	274+45.33	2.48	2.47	0.50	0.00	0.00		n/a	0.50	0.32	22.00	10.83	n/a	n/a
A-09	Curb and Grate	On Grade	277+19.70	3.57	3.38	0.50	0.19	0.00	A-11	9.50	0.50	0.30	22.00	10.18	n/a	n/a
A-10	Curb and Grate	On Grade	277+19.70	2.40	2.35	0.50	0.05	0.00	A-12	9.50	0.50	0.26	22.00	8.69	n/a	n/a
A-11	Curb and Grate	On Grade	280+69.70	3.76	3.69	0.50	0.07	0.19	A-13	9.50	0.50	0.36	22.00	12.65	n/a	n/a
A-12	Curb and Grate	On Grade	280+69.70	2.57	2.55	0.50	0.02	0.05	A-14	9.50	0.50	0.32	22.00	10.90	n/a	n/a
A-13	Curb and Grate	Sag	282+69.70	4.59	17.80	0.50	0.00	0.27		14.00	0.50	0.53	22.00	19.31	11.94	11.94
A-14	Curb and Grate	Sag	282+69.70	3.03	17.80	0.50	0.00	0.04		14.00	0.50	0.40	22.00	14.22	10.15	10.15
A-15	Curb and Grate	On Grade	284+69.70	5.08	4.89	0.50	0.19	0.00	A-13	9.50	0.50	0.40	22.00	14.21	n/a	n/a
A-16	Curb and Grate	On Grade	284+69.70	2.86	2.83	0.50	0.03	0.00	A-14	9.50	0.50	0.33	22.00	11.37	n/a	n/a
MHA-02	Junction	On Grade	288+30.22	2.48	2.47	0.50	0.00	0.00		n/a	0.50	0.32	22.00	10.83	n/a	n/a
A-17	Curb and Grate	On Grade	291+40.74	3.21	3.15	0.50	0.06	0.00	A-20	9.50	0.50	0.33	22.00	11.24	n/a	n/a
A-18	Curb and Grate	On Grade	291+40.74	1.90	1.90	0.50	0.00	0.00	A-21	9.50	0.50	0.27	22.00	9.14	n/a	n/a
A-19	Curb and Grate	On Grade	293+50.74	3.99	3.95	0.50	0.04	0.00	A-20	9.50	0.50	0.41	22.00	14.53	n/a	n/a
A-20	Curb and Grate	Sag	293+90.74	1.87	17.80	0.50	0.00	0.26		14.00	0.50	0.29	22.00	9.78	7.90	8.37
A-21	Curb and Grate	Sag	293+90.74	3.69	17.80	0.50	0.00	0.05		14.00	0.50	0.46	22.00	16.45	10.36	10.97
A-22	Curb and Grate	On Grade	294+30.74	3.46	3.45	0.50	0.01	0.00	A-20	9.50	0.50	0.41	22.00	14.74	n/a	n/a
A-23	Curb and Grate	On Grade	296+40.74	4.70	4.55	0.50	0.15	0.00	A-20	9.50	0.50	0.39	22.00	13.79	n/a	n/a
A-24	Curb and Grate	On Grade	296+40.74	3.26	3.22	0.50	0.04	0.00	A-21	9.50	0.50	0.35	22.00	11.96	n/a	n/a
MHA-03	Junction	On Grade	300+95.00	2.48	2.47	0.50	0.00	0.00		n/a	0.50	0.32	22.00	10.83	n/a	n/a
OUT-A	Outlet	On Grade	301+10.00	2.48	2.47	0.50	0.00	0.00		n/a	0.50	0.32	22.00	10.83	n/a	n/a

				_	-		NO	DE C	CONF	IGUF	ATION	l								
Node ID	Library Item Nome	Node Station	Node Offset (ft)	Node Elev. (ft)	Node Type	Profile Type	Spread X-Sect. Slope 1 (%)	Spread X-Sect Width 1 (ft.)	Spreod X-Sect. Slope 2 (%)	Width 2	Composite X-Sect. Spread Slope (%)	Longitudinal Slope (%)	Curb Length (ft)	Curb Depression (ft)	Curb Depressi on Width (ft)	Curb Height (ft)	Grate Length (ft)	Grate Width (ft)	Grate Area (ft)	Grate Perimete (ft)
A-01	PCU10L-3x5	264+70.97	-42.00	77.05	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.030	0.440	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-02	PCU10R-3x5	264+70.97	42.00	77.05	Curb and Grate			1.50	2.500	40.50	0.030	0.440	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-03	PCU10L-4x5	267+70.97	-42.00	75.73	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.030	0.440	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-04	PCU10R-3x5	267+70.97	42.00	75.73	Curb and Grate			1.50	2.500	40.50	0.030	0.440	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-05	PCU15-4x5	269+70.97	-42.00	75.01	Curb and Grate	Sag	5.560	1.50	2.500	40.50	0.028	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-06	PCU15-3x5	269+70.97	42.00		Curb and Grate	Sag	5.560	1.50			0.028	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-07	PCU10R-4x5	271+70.97	-42.00	76.09	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.030	0.800	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-08	PCU10L-3x5	271+70.97	42.00	76.09	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.031	0.800	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
MHA-01	MH4×4JB	274+45.33	-45.00	77.16	Junction	On Grade	5.560	1.50	2.500	40.50	0.029	0.393	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
A-09	PCU10L-4x5	277+19.70	-42.00	74.64	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.030	0.821	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-10	PCU10R-3x5	277+19.70	42.00	74.64	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.030	0.821	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-11	PCU10L-4x5	280+69.70	-42.00	73.25	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.029	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-12	PCU10R-3x5	280+69.70	42.00	73.25	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.029	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-13	PCU15-4x5	282+69.70	-42.00	72.80	Curb and Grate	Sag	5.560	1.50	2.500	40.50	0.027	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-14	PCU15-3x5	282+69.70	42.00	72.80	Curb and Grate	Sag	5.560	1.50	2.500	40.50	0.028	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-15	PCU10R-5x5	284+69.70	-42.00		Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.028	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-16	PCU10L-3x5	284+69.70	42.00		Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.029	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
MHA-02	MH6X6JB	288+30.22	-46.00	74.31	Junction	On Grade	5.560	1.50	2.500	40.50	0.029	0.194	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
A-17	PCU10L-6x5	291+40.74	-42.00	73.57	Curb and Grate			1.50	2.500	40.50	0.029	0.400	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-18	PCU10R-3x5	291+40.74	42.00	73.57	Curb and Grate			1.50	2.500	40.50	0.030	0.400	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-19	PCU10L-6x5	293+50.74	-42.00	72.81	Curb and Grate			1.50	2.500	40.50	0.028	0.165	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-20	PCU15-6x5	293+90.74	-42.00	72.77	Curb and Grate	Sag	5.560	1.50	2.500	40.50	0.030	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-21	PCU15-3x5	293+90.74	42.00	72.77	Curb and Grate	Sag	5.560	1.50	2.500	40.50	0.028	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-22	PCU10R-6x5	294+30.74	-42.00	72.79	Curb and Grate			1.50	2.500	40.50	0.028	0.115	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-23	PCU10R-6x5	296+40.74	-42.00	73.37	Curb and Grate			1.50	2.500	40.50	0.028	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
A-24	PCU10L-3x5	296+40.74	-42.00		Curb and Grate			1.50	2.500	40.50	0.029	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73
MHA-03	MH6X6JB	300+95.00	-46.00	74.58	Junction	On Grade		1.50			0.029	0.031	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
OUT-A	OUTLET	301+10.00	-130.00	74.57	Outlet	On Grade	5.560	1.50	2.500	40.50	0.029	0.000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

NOTES:

- 1. CALCULATIONS MADE BY "GEOPAK DRAINAGE" HYDRAULIC COMPUTER PROGRAM.
- 2. ALLOWABLE PONDING WIDTH = 22' AS PER TXDOT BRIDGE DIVISION HYDRAULIC MANUAL
- 3. SEWER CALCULATIONS BASED ON MANNING'S FORMULA.
- 4. RAINFALL FREQUENCY = 5 YR.





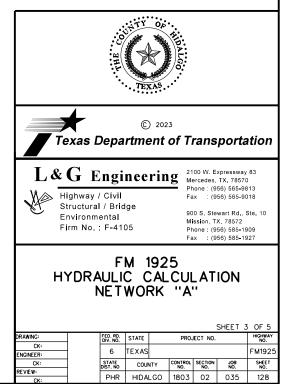
# NETWORK "A"

						LIN	K CON	FIGURA	ATION							
Link ID	Туре	Upstream Node	Downstream Node	Material	Library Item Name	Number of Borrels	Actual Length (ft)	Hydraulic Length (ft)	Manning's N Value	Slope (%)	Rise (ft)	Span (ft)	Soffit Upstream (ft)	Soffit Downstream (ft)	Invert Upstream (ft)	Invert Downstream (ft)
LA-01	Pipe	A-02	A-01	Concrete	18 Inch Dia. Circular	1.00	80.50	83.50	0.012	0.100	1.50	n/a	74.05	73.97	72.55	72.47
LA-02	Pipe	A-01	A-03	Concrete	24 Inch Dia. Circular	1.00	295.00	300.00	0.012	0.440	2.00	n/a	73.47	72.15	71.47	70.15
LA-03	Pipe	A-04	A-03	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.101	1.50	n/a	72.73	72.65	71.23	71.15
LA-04	Pipe	A-0.3	A-05	Concrete	30 Inch Dia. Circular	1.00	195.00	200.00	0.012	0.362	2.50	n/a	72.15	71.42	69.65	68.92
LA-05	Pipe	A-06	A-05	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.100	1.50	n/a	72.01	71.92	70.51	70.42
LA-06	Pipe	A-05	A-07	Concrete	30 Inch Dia. Circular	1.00	195.00	200.00	0.012	0.148	2.50	n/a	71.42	71.13	68.92	68.63
LA-07	Pipe	A-08	A-07	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.250	1.50	n/a	71.93	71.72	70.43	70.22
LA-08	Pipe	A-07	MHA-01	Concrete	30 Inch Dia. Circular	1.00	269.89	274.39	0.012	0.148	2.50	n/a	71.13	70.72	68.63	68.22
LA-09	Pipe	MHA-01	A-09	Concrete	30 Inch Dia Circular	1.00	269.90	274.40	0.012	0.149	2.50	n/a	70.72	70.31	68.22	67.81
LA-10	Pipe	A-10	A-09	Concrete	18 Inch Dia. Circular	1.00	82.50	86.00	0.012	0.250	1.50	n/a	71.39	71.17	69.89	69.67
LA-11	Pipe	A-09	A-11	Concrete	36 Inch Dia. Circular	1.00	345.00	350.00	0.012	0.235	3.00	n/a	70.81	69.99	67.81	66.99
LA-12	Pipe	A-12	A-11	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.100	1.50	n/a	70.50	70.41	69.00	68.91
LA-13	Pipe	A-11	A-13	Concrete	36 Inch Dia. Circular	1.00	195.00	200.00	0.012	0.250	3.00	n/a	69.99	69.49	66.99	66.49
LA-14	Pipe	A-14	A-13	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.100	1.50	n/a	70.30	70.21	68.80	68.71
LA-15	Pipe	A-13	A-15	Concrete	36 Inch Dia. Circular	1.00	195.00	200.00	0.012	0.144	3.00	n/a	69.50	69.21	66.50	66.21
LA-16	Pipe	A-16	A-15	Concrete	18 Inch Dia. Circular	1.00	78.50	82.50	0.012	0.250	1.50	n/a	67.92	67.71	66.42	66.21
LA-17	Pipe	A-15	MHA-02	Concrete	42 Inch Dia. Circular	1.00	355.06	360.56	0.012	0.100	3.50	n/a	69.71	69.35	66.21	65.85
LA-18	Pipe	MHA-02	A-17	Concrete	48 Inch Dia. Circular	1.00	305.07	310.57	0.012	0.100	4.00	n/a	69.85	69.54	65.85	65.54
LA-19	Pipe	A-18	A-17	Concrete	18 Inch Dia. Circular	1.00	77.50	82.00	0.012	0.250	1.50	n/a	69.75	69.54	68.25	68.04
LA-20	Pipe	A-17	A-19	Concrete	48 Inch Dia. Circular	1.00	205.00	210.00	0.012	0.100	4.00	n/a	69.54	69.33	65.54	65.33
LA-21	Pipe	A-19	A-20	Concrete	48 Inch Dia Circular	1.00	35.00	40.00	0.012	0.100	4.00	n/a	69.33	69.29	65.33	65.29
LA-22	Pipe	A-21	A-20	Concrete	18 Inch Dia. Circular	1.00	77.50	82.00	0.012	0.250	1.50	n/a	69.50	69.29	68.00	67.79
LA-23 LA-24	Pipe Pipe	A-20	A-22 A-23	Concrete	48 Inch Dia. Circular 48 Inch Dia. Circular	1.00	35.00 205.00	40.00 210.00	0.012	0.100	4.00	n/a n/a	69.29 69.25	69.25 69.04	65.29 65.25	65.25 65.04
LA-24 LA-25	Pipe Pipe	A-22 A-24	A-23	<u>Concrete</u> Concrete	18 Inch Dia. Circular	1.00	77.50	82.00	0.012	0.250	4.00	n/a n/a	69.25	69.04	67.75	67.54
LA-25 LA-26	Pipe	A-24 A-23	MHA-03	Concrete	54 Inch Dia. Circular	1.00	448.84	454.34	0.012	0.230	4.50	n/a	69.04	69.04	64.54	64.09
																64.09
LA-27	Pipe	MHA-03	OUT-A	Concrete	54 Inch Dia. Circular	1.00	82.38	85.38	0.012	0.100	4.50	n/a	68.59	68.50	64.09	

								LINK I	HYDRA	ULICS								
Link ID	Upstreom Node	Downstream Node	Discharge (f(/s)	Coppcity (ft/s)	Uniform Depth (ft)	Uniform Velocity (ft/s)	Critical Depth (ft)	Critical Velocity (ft/s)	Critical Slope (%)	Frict. Slope (%)	Actual Vel. U.S. (ft/s)	Actual Vel. D.S. (ft/s)	Actuol Depth U.S. (ft)	Actual Depth D.S. (ft)	HGL U.S. (ft)	HGL D.S. (ft)	EGL U.S.	EGL D.S.
LA-01	A-02	A-01	2.36	3.87	0.88	2.19	0.58	3.73	0.004	0.001	1.34	1.34	1.50	1.50	74.94	74.88	74.97	74.90
LA-01	A-02 A-01	A-01 A-03	4.00	17.49	0.68	4.29	0.38	4.07	0.004	0.001	1.27	1.34	2.00	2.00	74.94	74.00	74.97	74.90
LA-02	A-01 A-04	A-03	2.27	3.88	0.88	2.10	0.57	3.69	0.004	0.004	1.27	1.27	1.50	1.50	74.80	74.76	74.90	74.80
LA-03	A-04 A-03	A-05	7.53	28.76	0.88	4.68	0.91	4.65	0.004	0.001	1.53	1.53	2.50	2.50	74.76	74.14	74.80	74.80
LA-05	A-06	A-05	3.02	3.87	1.06	2.27	0.66	4.03	0.004	0.004	1.71	1.71	1.50	1.50	74.25	74.14	74.29	74.24
LA-06	A-05	A-07	12.18	18.36	1.54	3.84	1.17	5.40	0.004	0.002	2.48	2.48	2.50	2.50	74.14	73.86	74.24	74.01
LA-07	A-08	A-07	1.84	6.12	0.58	2.89	0.51	3.47	0.004	0.003	1.04	1.04	1.50	1.50	73.90	73.86	73.92	74.01
LA-08	A-07	MHA-01	15.09	18.36	1.83	3.91	1.31	5.79	0.004	0.001	3.08	3.08	2.50	2.50	73.86	73.39	74.01	73.53
LA-09	MHA-01	A-09	15.09	18.48	1.83	3.91	1.31	5.79	0.004	0.001	3.08	3.08	2.50	2.50	73.39	73.06	73.53	73.18
LA-10	A-10	A-09	2.40	6.12	0.68	3.07	0.59	3.75	0.004	0.002	1.36	1.36	1.50	1.50	73.13	73.06	73.16	73.18
LA-11	A-09	A-11	19.24	37.71	1.58	5.08	1.41	5.91	0.004	0.002	2.72	2.72	3.00	3.00	73.06	72.20	73.18	72.37
LA-12	A-12	A-11	2.52	3.87	0.92	2.20	0.60	3.80	0.004	0.001	1.42	1.42	1.50	1.50	72.27	72.20	72.31	72.37
LA-13	A-11	A-13	23.27	38.86	1.76	5.40	1.55	6.30	0.004	0.002	3.29	3.29	3.00	3.00	72.20	71.88	72.37	72.14
LA-14	A-14	A-13	2.99	3.87	1.06	2.25	0.66	4.02	0.004	0.001	1.69	1.69	1.50	1.50	71.98	71.88	72.03	72.14
LA-15	A-13	A-15	28.61	29.45	2.82	4.15	1.73	6.77	0.004	0.001	4.05	4.05	3.00	3.00	71.88	71.38	72.14	71.58
LA-16	A-16	A-15	2.86	6.12	0.75	3.25	0.64	3.96	0.004	0.003	1.62	1.62	1.50	1.50	71.47	71.38	71.51	71.58
LA-17	A-15	MHA-02	34.73	37.07	2.88	4.11	1.83	6.84	0.004	0.001	3.61	3.61	3.50	3.50	71.38	70.29	71.58	70.40
LA-18	MHA-02	A-17	34.73	52.94	2.46	4.28	1.75	6.55	0.003	0.001	2.76	2.76	4.00	4.00	70.29	70.12	70.40	70.25
LA-19	A-18	A-17	1.90	6.12	0.59	2.92	0.52	3.50	0.004	0.003	1.08	1.08	1.50	1.50	70.16	70.12	70.18	70.25
LA-20	A-17	A-19	36.82	52.94	2.58	4.29	1.81	6.68	0.003	0.001	2.93	2.93	4.00	4.00	70.12	69.85	70.25	70.00
LA-21	A-19	A-20	39.57	52.94	2.82	4.19	1.88	6.83	0.003	0.001	3.15	3.15	4.00	4.00	69.85	69.82	70.00	70.00
LA-22	A-21	A-20	3.64	6.12	0.88	3.38	0.73	4.27	0.005	0.002	2.06	2.06	1.50	1.50	69.97	69.82	70.03	70.00
LA-23	A-20	A-22	42.68	52.94	2.82	4.51	1.95	7.00	0.003	0.001	3.40	3.40	4.00	4.00	69.82	69.73	70.00	69.93
LA-24	A-22	A-23	45.21	52.94	3.05	4.40	2.01	7.14	0.003	0.001	3.60	3.60	4.00	4.00	69.73	69.55	69.93	69.71
LA-25	A-24	A-23	3.26	6.12	0.81	3.33	0.69	4.13	0.004	0.002	1.84	1.84	1.50	1.50	69.67	69.55	69.72	69.71
LA-26	A-23	MHA-03	50.84	72.47	2.90	4.68	2.06	7.15	0.003	0.001	3.20	3.20	4.50	4.50	69.55	68.71	69.71	68.87
LA-27	MHA-03	OUT-A	50.84	72.47	2.90	4.68	2.06	7.15	0.003	0.001	3.20	3.20	4.50	4.50	68.71	68.50	68.87	68.66

NOTES:

- 1. CALCULATIONS MADE BY "GEOPAK DRAINAGE" HYDRAULIC COMPUTER PROGRAM.
- 2. ALLOWABLE PONDING WIDTH 22' AS PER TXDOT BRIDGE DIVISION HYDRAULIC MANUAL
- 3. SEWER CALCULATIONS BASED ON MANNING'S FORMULA.
- 4. RAINFALL FREQUENCY = 5 YR.





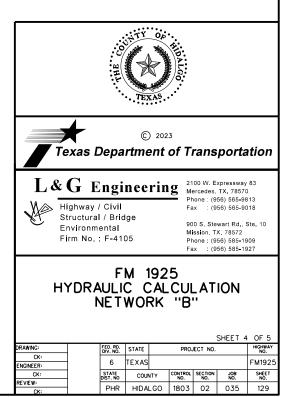
NETWORK "B"

							N	ODE HYDR	AULICS								
Node ID	Node Type	Node Profile Type	Node Station	Discharge (ft/s)	Capacity (ft/s)	Max By Rass Flow (ft/s)	By Paşs Flow (ft/s)	By Poss Flow Into Node (ft/s)	By Pass Node ID	Node Length Required (ft)	Node Length Actual (ft)	Max Ponded Depth (ft)	Computed Ponded Depth (ft)	Max Ponded Width (ft)	Computed Ponded Width (ft)	Ponded Width Right (ft)	Ponded Width Left (ft)
OUT-B	Outlet	On Grade	301+30.00	2.48	2.47	0.50	0.00	0.00		6.87	n/a	0.50	0.32	22	10.83	n/a	n/a
MHB-01	Junction	On Grade	301+45.00	2.48	2.47	0.50	0.00	0.00		6.87	n/a	0.50	0.32	22	10.83	n/a	n/a
B-01	Curb and Grate	On Grade	305+25.00	2.98	2.95	0.50	0.03	0.00	B-04	n/a	9.50	0.50	0.34	22	11.55	n/a	n/a
B-02	Curb and Grate	On Grade	305+25.00	3.13	3.10	0.50	0.04	0.00	B-03	n/a	9.50	0.50	0.34	22	11.78	n/a	n/a
B-03	Curb and Grate	On Grade	308+00.00	2.05	2.04	0.50	0.00	0.04	B-05	n/a	9.50	0.50	0.30	22	9.97	n/a	n/a
B-04	Curb and Grate	Sag	309+00.00	4.92	17.80	0.50	0.00	0.03		n/a	14.00	0.50	0.55	22	20.32	12.27	12.27
B-05	Curb and Grate	Sag	309+00.00	1.55	17.80	0.50	0.00	0.00		n/a	14.00	0.50	0.26	22	8.41	7.76	7.76
B-06	Curb and Grate	On Grade	310+00.00	1.77	1.77	0.50	0.00	0.00	B-05	n/a	9.50	0.50	0.28	22	9.41	n/a	n/a
B-07	Curb and Grate	On Grade	312+38.50	1.55	1.55	0.50	0.00	0.00	B-04	n/a	9.50	0.50	0.27	22	8.93	n/a	n/a
B-08	Curb and Grate	On Grade	312+38.50	1.77	1.76	0.50	0.00	0.00	B-06	n/a	9.50	0.50	0.28	22	9.40	n/a	n/a
FGB-01	Other	On Grade	314+38.00	1.67	1.67	0.50	0.00	0.00		5.10	n/a	0.50	0.30	6	9.97	n/a	n/a
JBB-01	Junction	On Grade	314+38.00	1.67	1.67	0.50	0.00	0.00		5.10	n/a	0.50	0.30	22	9.97	n/a	n/a
B-09	Curb and Grate	On Grade	316+88.50	1.76	1.76	0.50	0.00	0.00	B-11	n/a	9.50	0.50	0.28	22	9.39	n/a	n/a
B-10	Curb and Grate	On Grade	316+88.50	2.79	2.77	0.50	0.02	0.00	B-12	n/a	9.50	0.50	0.33	22	11.26	n/a	n/a
B-11	Curb and Grate	On Grade	319+88.50	2.16	2.16	0.50	0.01	0.00	B-13	n/a	9.50	0.50	0.30	22	10.19	n/a	n/a
B-12	Curb and Grate	On Grade	319+88.50	3.30	3.25	0.50	0.05	0.02	B-14	n/a	9.50	0.50	0.35	22	12.02	n/a	n/a
B-13	Curb and Grate	Sag	321+88.50	3.06	17.80	0.50	0.00	0.01		n/a	14.00	0.50	0.40	22	14.31	10.19	10.19
B-14	Curb and Grate	Sag	321+88.50	3.20	17.80	0.50	0.00	0.05		n/a	14.00	0.50	0.42	22	14.79	10.37	10.37
B-15	Curb and Grate	On Grade	324+17.25	1.43	1.43	0.50	0.00	0.00	B-13	n/a	9.50	0.50	0.26	22	8.65	n/a	n/a
B-16	Curb and Grate	On Grade	324+17.25	1.30	1.30	0.50	0.00	0.00	B-14	n/a	9.50	0.50	0.25	22	8.31	n/a	n/a
B-17	Curb and Grate	On Grade	327+92.25	1.67	1.67	0.50	0.00	0.00	B-19	n/a	9.50	0.50	0.30	22	9.97	n/a	n/a
B-18	Curb	On Grade	327+92.25	1.59	1.59	0.50	0.00	0.00	B-20	4.97	9.50	0.50	0.29	22	9.78	n/a	n/a
MHB-02	Junction	On Grade	329+05.25	1.67	1.67	0.50	0.00	0.00		5.10	n/a	0.50	0.30	22	9.97	n/a	n/a
B-19	Curb and Grate	Sag	331+02.25	2.18	14.14	0.00	0.00	0.00		n/a	9.50	0.50	0.32	22	11.05	0.00	0.00
B-20	Curb	On Grade	331+02.25	2.93	2.93	0.00	0.00	0.00	B-19	6.81	9.50	0.50	0.36	22	12.42	n/a	n/a

OUT-B MHB-01 B-02 P B-01 P B-03 P B-03 F B-04 F B-06 P B-06 P B-08 P	ibrary Item Name OUTLET MH6X6JB	Node Station	Node Offset (ft)	Node Elev.			Same		_	NODE CONFIGURATION Node ID Library Item Node Station Offset Elev. Node Type Profile Trans Spread Spr														
MHB-01           B-02         P           B-01         P           B-03         P           B-05         F           B-04         F           B-06         P           B-08         P				GD	Node Type	Profile Type	Spredd X-Sect Slope (%)	Spread .X-Sect Width (ft.)	Spread X-Sec t. Slope 2 (%)	Spread X-Sect.x Width 2 (ft.)	Composite (-Sect. Spread Slope (%)	Longitudinal Slope (%)	Curb Length (ft)	Curb Depression (ft)	Curb Depression Width (ft)	Curb Height (ft)	Grate Length (ft)		Grate Area (ft)	Grote Perimete (ft)				
MHB-01           B-02         P           B-01         P           B-03         P           B-05         F           B-04         F           B-06         P           B-08         P		301+30.00	-130.00	74.55	Outlet	On Grade	5.560	1.50	2 500	40.50	0.029	0.000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
B-02         P           B-01         P           B-03         P           B-05         F           B-04         F           B-06         P           B-08         P		301+45.00	-46.00	74.52	Junction	On Grade	5.560	1.50	2.500		0.029	0.206	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
B-01         P           B-03         P           B-05         F           B-04         F           B-06         P           B-08         P	PCU10L-5x5	305+25.00	-42.00	73.28	Curb and Grate		5.560	1.50	2.500		0.029	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
B-05 F B-04 F B-06 P B-08 P	PCU10R-3x5	305+25.00	42.00	73.28	Curb and Grate		5.560	1.50	2.500		0.029	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
B-04 F B-06 P B-08 P	PCU10L-5x5	308+00.00	-42.00	72.45	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.030	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
B-06 P B-08 P	PCU15-5x5	309+00.00	-42.00	72.30	Curb and Grate	Sag	5.560	1.50	2.500		0.030	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
B-08 P	PCU15-3x5	309+00.00	42.00		Curb and Grate	Sag	5.560	1.50	2.500		0.027	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PCU10R-5x5	310+00.00	-42.00	72.45	Curb and Grate	On Grade	5.560	1.50	2.500		0.030	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
B-07 P	PCU10R-4x5	312+38.50	-42.00	73.17	Curb and Grate	On Grade	5.560	1.50	2.500		0.030	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	-CU10L-3x5	312+38.50	42.00	73.17	Curb and Grate	On Grade	5.560	1.50	2.500	40.50	0.030	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
JBB-01	4x4JB	314+38.00	-40.75	73.16	Junction	On Grade	5.560	1.50	2.500	40.50	0.030	0.045	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
FGB-01PAZ		3 314+38.00	-130.00	71.50	Other	On Grade	25.000	6.00	0.000	0.00	0.030	0.001	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a				
	PCU10L-4x5	316+88.50	-42.00	73.11	Curb and Grate		5.560	1.50	2.500	40.50	0.029	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PCU10R-3x5	316+88.50	42.00	73.11	Curb and Grate		5.560	1.50	2.500	40.50	0.030	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PCU10L-4x5	319+88.50	-42.00	72.21	<u>Curb</u> and Grate		5.560	1.50	2.500	40.50	0.029	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PCU10R-3x5	319+88.50	42.00	72.21	Curb and Grate		5.560	1.50	2.500		0.030	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PCU15-4x5	321+88.50	-42.00	71.76	Curb and Grate	Sag	5.560	1.50	2.500		0.028	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PCU15-3x5	321+88.50	42.00	71.76	Curb and Grate	Sag	5.560	1.50	2.500	40.50	0.028	n/a	14.00	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PCU10R-4x5	324+17.25	-42.00	72.29	Curb and Grate		5.560	1.50	2.500	40.50	0.031	0.300	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PCU10L-3x5	324+17.25	42.00		Curb and Grate	On Grade	5.560	1.50	2.500		0.030	0.300	9.50	0.25	1.50 1.50	0.50	4.96	1.39	3.13	7.73				
	PC010L-4x5 PCU10R-3x5	327+92.25 327+92.25		72.39	Curb	On Grade	5.560	1.50		40.50	0.030	0.200	9.50	0.25		0.50	n/a	n/a	n/a	n/a				
	MH4x4JB	329+05.25	42.00	72.39	Curb and Grate	On Grade On Grade	5.560	1.50		40.50	0.030	0.200	9.50	0.25	1.50	0.50	4.96	1.39	3.13	7.73				
	PC010L-3x5	331+02.25	-44.25	71.67	Junction	On Grade	5.560	1.50		40.50	0.030	0.200	<u>n/a</u>	n/a	n/a 1.50	<u>n/a</u> 0.50	n/a	n/a	n/a	n/a				
B-19 P	- CO IUL - JXD I	331+02.25	42.00		Curb Curb and Grate	Saa	5.560	1.50		40.50	0.029	0.200 n/a	<u>9.50</u> 9.50	0.25	1.50	0.50	n/a 4.96	n/a 1.39	n/a 3.13	n/a 7,7,3				

NOTES:

- 1. CALCULATIONS MADE BY "GEOPAK DRAINAGE" HYDRAULIC COMPUTER PROGRAM.
- 2. ALLOWABLE PONDING WIDTH = 22' AS PER TXDOT BRIDGE DIVISION HYDRAULIC MANUAL
- 3. SEWER CALCULATIONS BASED ON MANNING'S FORMULA.
- 4. RAINFALL FREQUENCY = 5 YR.





VIEW

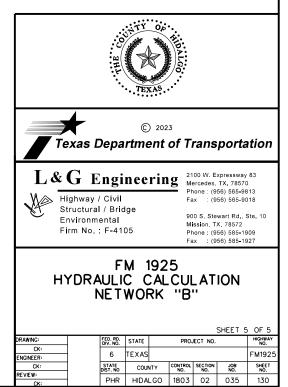
NETWORK "B"

						LINK	CONF	IGURA	TION							
Link ID	Туре	Upstream Node	Downstream Node	Material	Library Item Name	Number of Borrels	Actual Length (ft)	Hydraulic Length (ft)	Manning's N Value	Slope (%)	Rise (ft)	Span (ft)	Soffit Upstream (ft)	Soffit Downstream (ft)	Invert Upstream (ft)	Invert Downstream (ft)
LB-01	Pipe	MHB-01	OUT-B	Concrete	42 Inch Dia. Circular	1.00	82.38	85.38	0.012	0.100	3.50	n/a	67.59	67.50	64.09	64.00
LB-02	Pipe	B-02	MHB-01	Concrete	42 Inch Dia. Circular	1.00	374.54	380.04	0.012	0.100	3.50	n/a	67.97	67.59	64.47	64.09
LB-03	Pipe	B-01	B-02	Concrete	18 Inch Dia. Circular	1.00	78.50	82.50	0.012	0.250	1.50	n/a	66.17	65.97	64.67	64.47
LB-04	Pipe	B-03	B-02	Concrete	42 Inch Dia Circular	1.00	270.00	275.00	0.012	0.100	3.50	n/a	68.24	67.97	64.74	64.47
LB-05	Pipe	B-05	B-03	Concrete	42 Inch Dia. Circular	1.00	95.00	100.00	0.012	0.100	3.50	n/a	68.34	68.24	64.84	64.74
LB-06	Pipe	B-04	B-05	Concrete	18 Inch Dia. Circular	1.00	78.50	82.50	0.012	0.250	1.50	n/a	66.55	66.34	65.05	64.84
LB-07	Pipe	B-06	B-05	Concrete	42 Inch Dia. Circular	1.00	95.00	100.00	0.012	0.100	3.50	n/a	68.44	68.34	64.94	64.84
LB-08	Pipe	B-08	B-06	Concrete	36 Inch Dia. Circular	1.00	233.50	238.50	0.012	0.100	3.00	n/a	68.18	67.94	65.18	64.94
LB-09	Pipe	B-07	B-08	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.250	1.50	n/a	66.89	66.68	65.39	65.18
LB-10	Pipe	JBB-01	B-08	Concrete	36 Inch Dia. Circular	1.00	195.00	199.50	0.012	0.100	3.00	n/a	68.38	68.18	65.38	65.18
LB-11	Pipe	FGB-01	JBB-01	Concrete	24 Inch Dia. Circular	1.00	85.75	89.25	0.012	0.250	2.00	n/a	67.60	67.38	65.60	65.38
LB-12	Pipe	B-10	JBB-01	Concrete	36 Inch Dia. Circular	1.00	246.00	250.50	0.012	0.100	3.00	n/a	68.63	68.38	65.63	65.38
LB-13	Pipe	B-09	B-10	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.250	1.50	n/a	67.34	67.13	65.84	65.63
LB-14	Pipe	B-12	B-10	Concrete	36 Inch Dia. Circular	1.00	295.00	300.00	0.012	0.100	3.00	n/a	68.93	68.63	65.93	65.63
LB-15	Pipe	B-11	B-12	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.250	1.50	n/a	67.64	67.43	66.14	65.93
LB-16	Pipe	B-14	B-12	Concrete	30 Inch Dia Circular	1.00	195.00	200.00	0.012	0.100	2.50	n/a	68.63	68.43	66.13	65.93
LB-17	Pipe	B-13	B-14	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.250	1.50	n/a	67.84	67.63	66.34	66.13
LB-18	Pipe	B-16	B-14	Concrete	<u>30 Inch Dia. Circular</u>	1.00	223.75	228.75	0.012	0.100	2.50	n/a	68.86	68.63	66.36	66.13
LB-19	Pipe	B-15	B-16	Concrete	18 Inch Dia. Circular	1.00	79.50	83.00	0.012	0.250	1.50	n/a	68.07	67.86	66.57	66.36
LB-20	Pipe	B-18	B-16	Concrete	30 Inch Dia. Circular	1.00	370.01	375.01	0.012	0.100	2.50	n/a	69.24	68.86	66.74	66.36
LB-21	Pipe	B-17	B-18	Concrete	18 Inch Dia. Circular	1.00	82.75	86.25	0.012	0.250	1.50	n/a	68.45	68.24	66.95	66.74
LB-22	Pipe	MHB-02	B-18	Concrete	30 Inch Dia. Circular	1.00	108.50	113.00	0.012	0.100	2.50	n/a	69.35	69.24	66.85	66.74
LB-23	Pipe	B-20	MHB-02	Concrete	24 Inch Dia. Circular	1.00	192.50	197.00	0.012	0.100	2.00	n/a	69.05	68.85	67.05	66.85
LB-24	Pipe	B-19	B-20	Concrete	18 Inch Dia. Circular	1.00	82.75	85.75	0.012	0.250	1.50	n/a	68.76	68.55	67.26	67.05

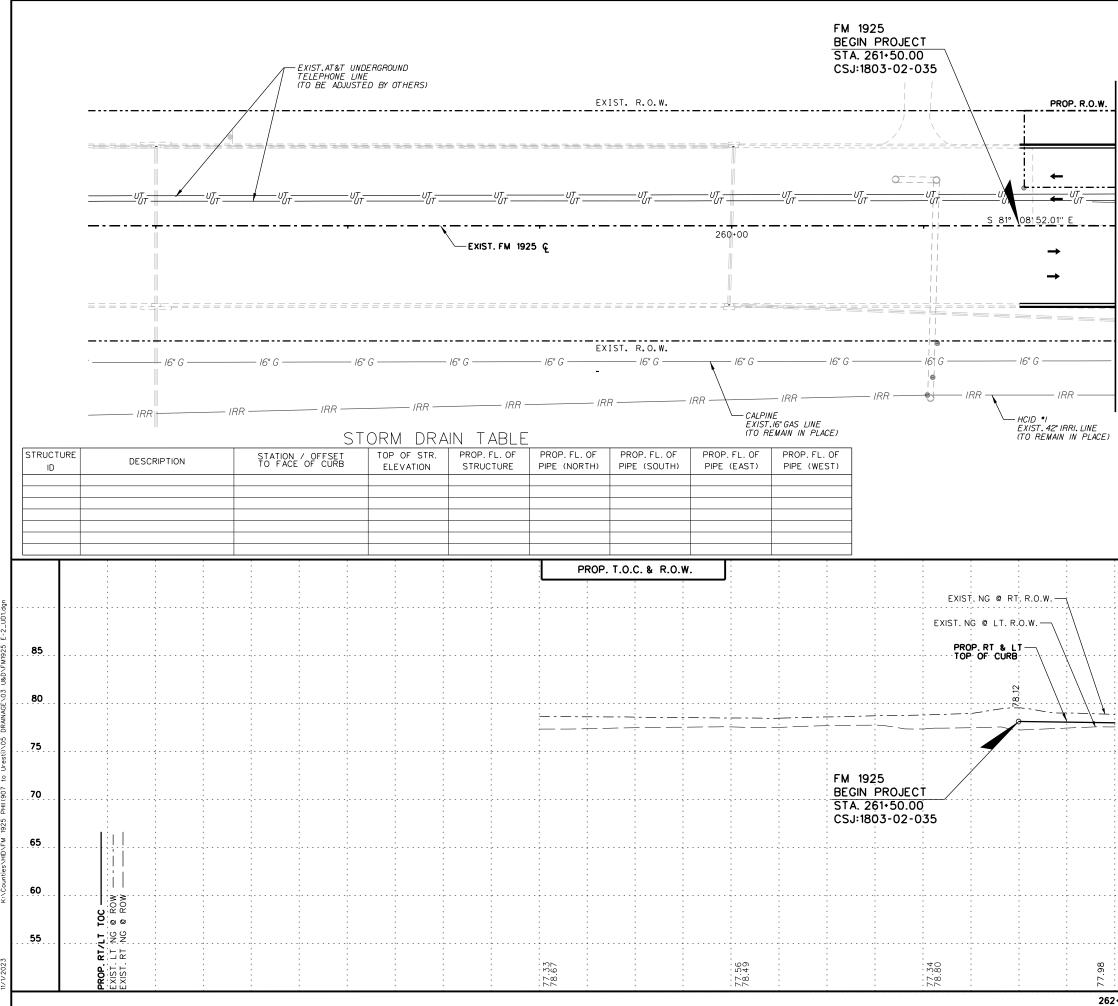
								LINK I	HYDRA	JLICS								
Link ID	Upstream Node	Downstream Node	Discharge (ft/s)	Capacity (ft/s)	Uniform Depth (ft)	Uniform Velocity	Critical Depth (ft)	Critical Velocity	Critical Slope (%)	Frict. Slope (%)	Actual Vel. U.S. (ft/s)	Actual Vel. D.S. (ft/s)	Actual Depth U.S.	Actual Depth D.S.	HGL U.S. (ft)	HGL D.S. (ft)	EGL U.S. (ft)	EGL D.S. (ft)
LB-01	MHB-01	OUT-B	31.19	37.08	2.67	3.96	1.73	6.59	0.003	0.001	3.24	3.24	3.50	3.50	68.74	68.50	68.90	68.66
LB-02	B-02	MHB-01	31.19	37.07	2.67	3.96	1.73	6.59	0.003	0.001	3.24	3.24	3.50	3.50	69.19	68.74	69.35	68.90
LB-03	B-01	B-02	2.98	6.12	0.77	3.26	0.66	4.00	0.004	0.003	1.68	1.68	1.50	1.50	69.29	69.19	69.33	69.35
LB-04	B-03	B-02	27.65	37.07	2.46	3.82	1.62	6.34	0.003	0.001	2.87	2.87	3.50	3.50	69.36	69.19	69.49	69.35
LB-05	B-05	B-03	26.30	37.07	2.26	4.01	1.58	6.24	0.003	0.001	2.73	2.73	3.50	3.50	69.44	69.36	69.56	69.49
LB-06	B-04	B-05	4.89	6.12	1.06	3.68	0.85	4.73	0.005	0.003	2.77	2.77	1.50	1.50	69.72	69.44	69.83	69.56
LB-07	B-06	B-05	22.46	37.08	2.05	3.83	1.46	5.94	0.003	0.001	2.33	2.33	3.50	3.50	69.49	69.44	69.58	69.56
LB-08	B-08	B-06	21.51	24.58	2.29	3.72	1.49	6.13	0.004	0.001	3.04	3.04	3.00	3.00	69.76	69.49	69.90	69.58
LB-09	B-07	B-08	1.55	6.12	0.54	2.72	0.47	3.30	0.004	0.002	0.88	0.88	1.50	1.50	69.78	69.76	69.79	69.90
LB-10	JBB-01	B-08	19.60	24.58	2.11	3.69	1.42	5.95	0.004	0.001	2.77	2.77	3.00	3.00	69.91	69.76	70.03	69.90
LB-11	FGB-01	JBB-01	0.62	13.18	0.31	2.01	0.26	2.51	0.005	0.002	0.20	0.20	2.00	2.00	69.92	69.91	69.91	70.03
LB-12	B-10	JBB-01	19.53	24.58	2.11	3.67	1.42	5.94	0.004	0.001	2.76	2.76	3.00	3.00	70.15	69.91	70.27	70.03
LB-13	B-09	B-10	1.76	6.12	0.57	2.84	0.50	3.42	0.004	0.003	1.00	1.00	1.50	1.50	70.19	70.15	70.20	70.27
LB-14	B-12	B-10	16.76	24.58	1.94	3.47	1.31	5.66	0.003	0.001	2.37	2.37	3.00	3.00	70.83	70.15	70.92	70.27
LB-15	B-11	B-12	2.16	6.12	0.64	3.02	0.56	3.63	0.004	0.003	1.22	1.22	1.50	1.50	70.89	70.83	70.91	70.92
LB-16	B-14 B-13	B-12 B-14	12.91	15.12	1.91 0.78	3.21 3.28	1.21 0.67	5.50	0.004	0.001	2.63	2.63	2.50	2.50	71.09	70.83	71.20	70.92
LB-17	B-13 B-16	B-14 B-14	3.05 8.49	6.12 15.12	1.39	3.02	0.67	4.04	0.004	0.003	1.73	1.73	1.50	1.50 2.50	71.20 71.21	71.09	71.24	71.20
LB-18 LB-19	B-16 B-15	B-14 B-16	<u> </u>	6.12	0.52	2.65	0.97	3.23	0.004	0.001	0.81	0.81	1.50	1.50	71.21	71.09	71.25	71.20
LB-19	B-13 B-18	B-16	6.84	15.12	1.25	2.65	0.45	4.52	0.004	0.002	1.39	1.39	2.50	2.50	71.23	71.21	71.24	71.25
LB-20	B-10 B-17	B-18	1.67	6.12	0.56	2.79	0.49	3.37	0.004	0.001	0.95	0.95	1.50	1.50	71.35	71.33	71.30	71.36
LB-22	MHB-02	B-18	4.50	15.12	0.95	2.62	0.70	4.01	0.004	0.002	0.93	0.93	2.50	2.50	71.34	71.33	71.35	71.36
LB-23	B-20	MHB-02	4.50	8.34	1.12	2.50	0.75	4.22	0.004	0.001	1.43	1.43	2.00	2.00	71.45	71.34	71.48	71.35
LB-24	B-19	B-20	2.18	6.12	0.64	3.05	0.56	3.64	0.004	0.003	1.23	1.23	1.50	1.50	71.51	71.45	71.53	71.48

NOTES:

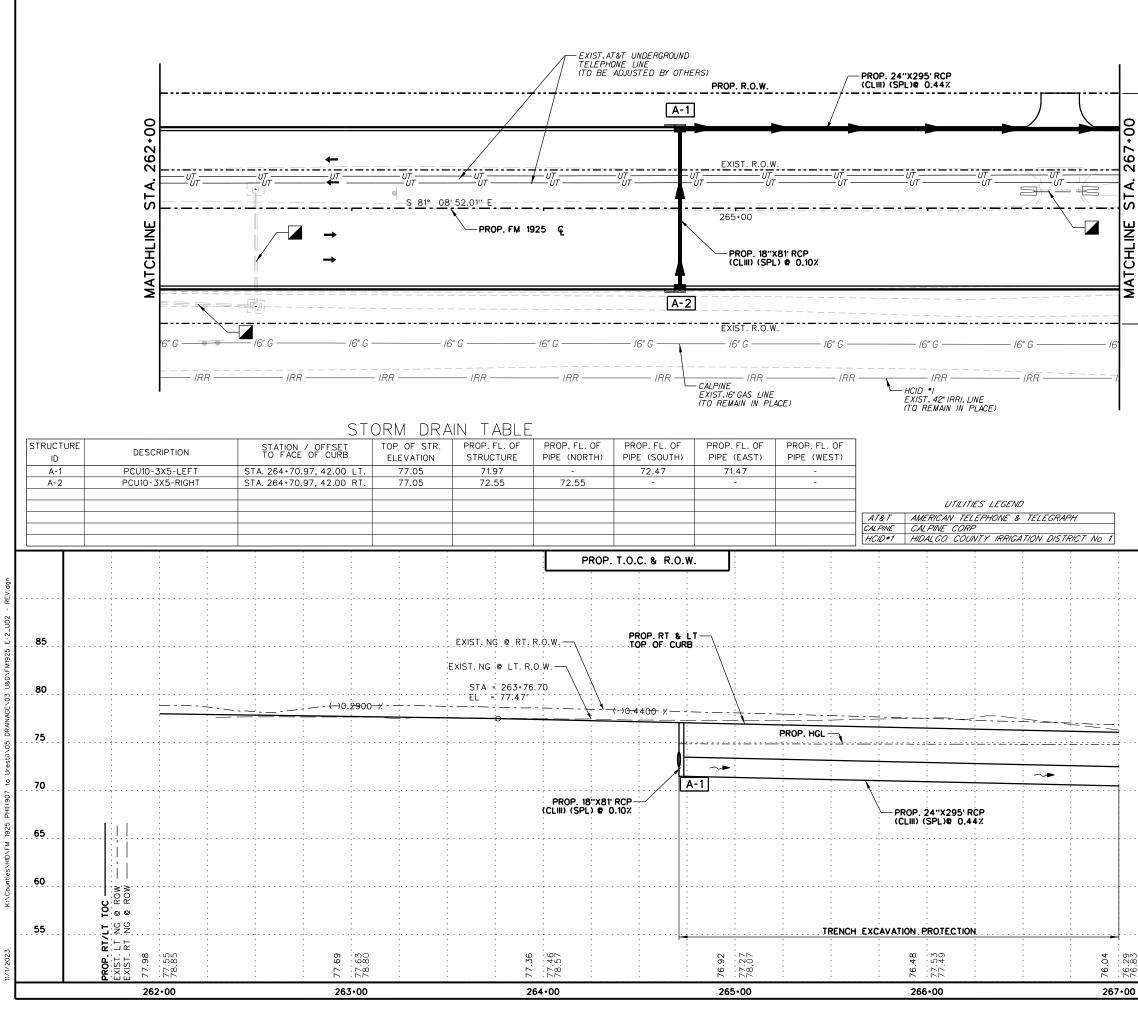
- 1. CALCULATIONS MADE BY "GEOPAK DRAINAGE" HYDRAULIC COMPUTER PROGRAM.
- 2. ALLOWABLE PONDING WIDTH = 22' AS PER TXDOT BRIDGE DIVISION HYDRAULIC MANUAL
- 3. SEWER CALCULATIONS BASED ON MANNING'S FORMULA.
- 4. RAINFALL FREQUENCY = 5 YR.



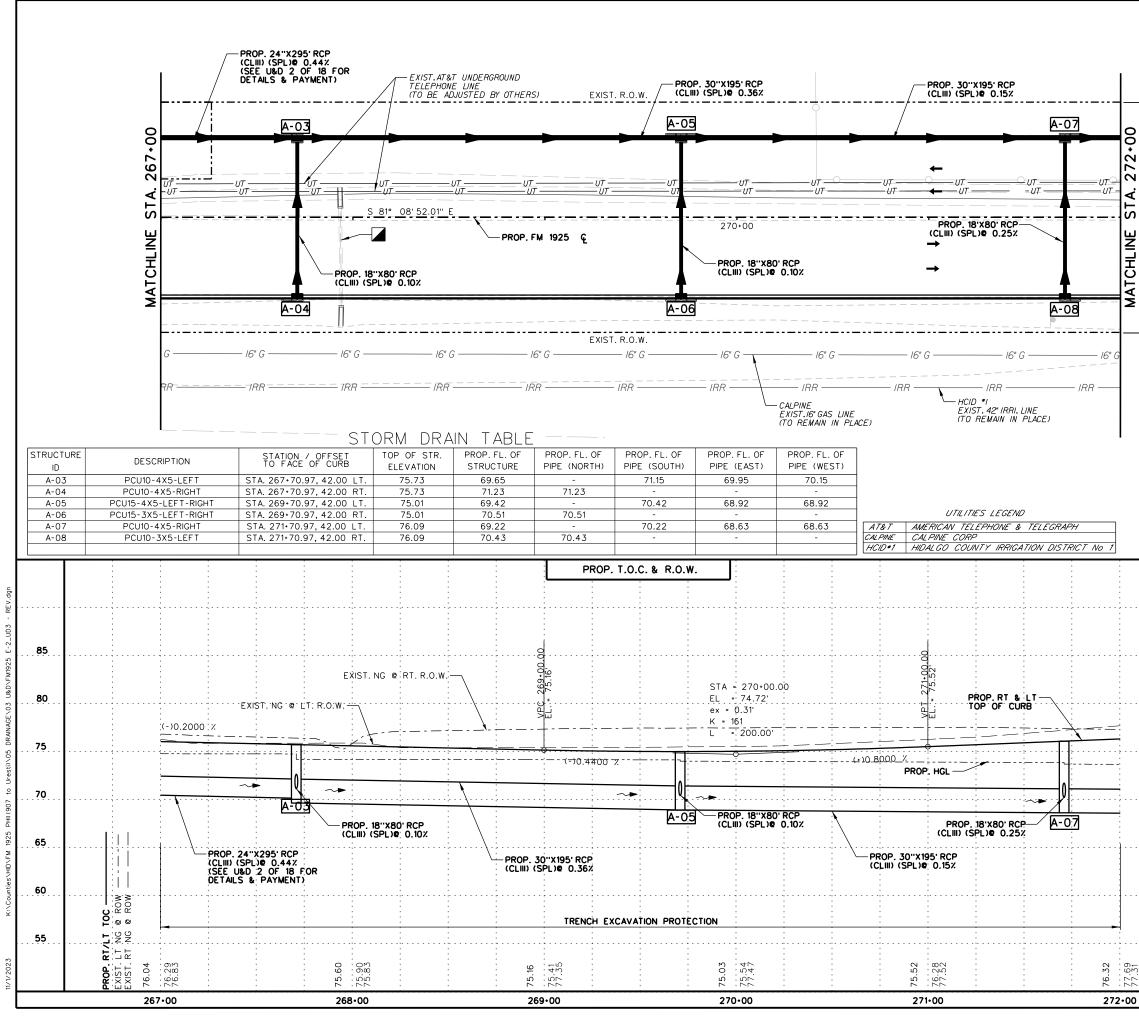




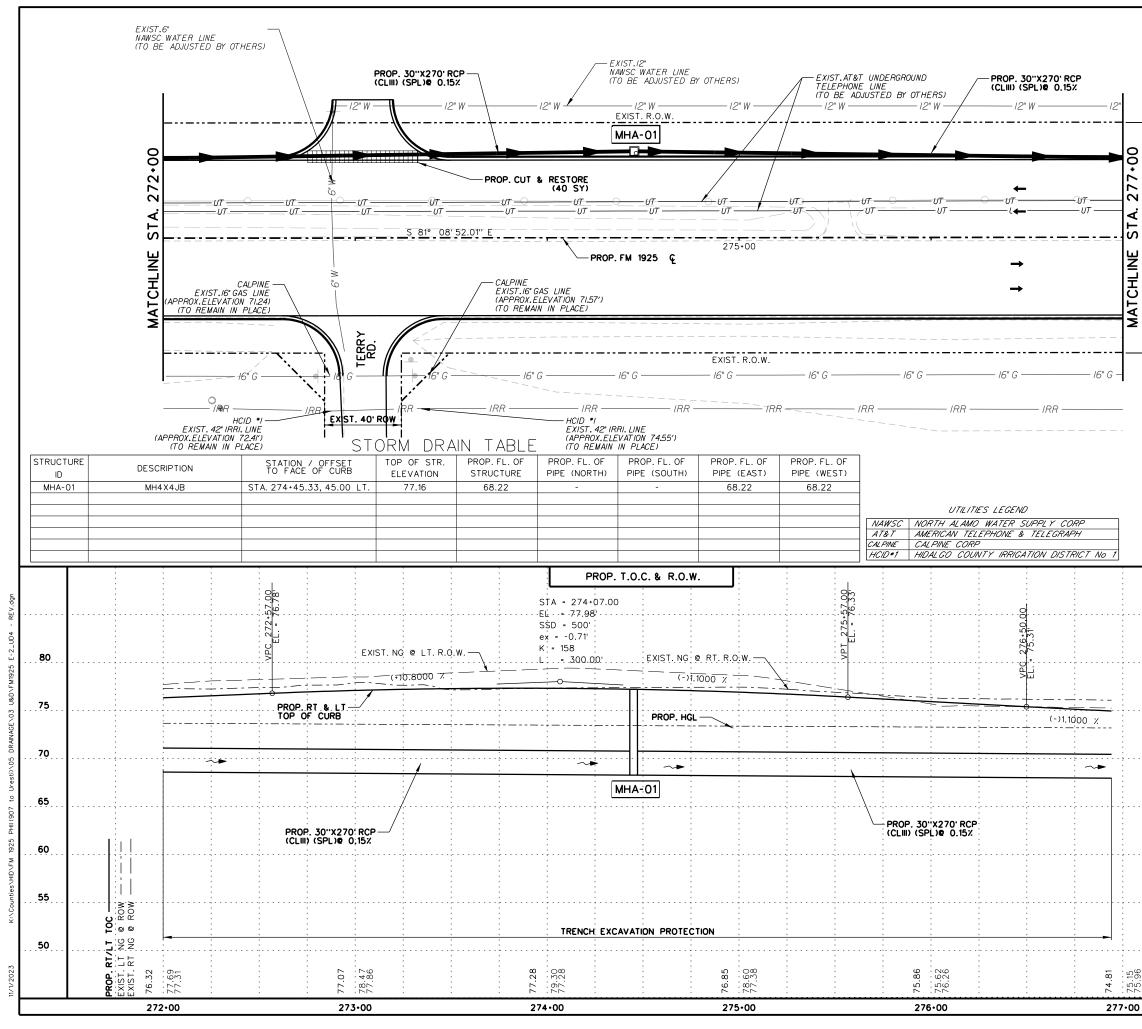
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• 52 + 7	LEGEND
₹ 50	SEE P&P SHEETS FOR DETAILS
<b>  ∀</b>   <b>└</b>     <u>0</u>	TO BE REMOVED UNDER ITEM 496. INCLUDES
_o <u>†</u> 8 <u>†</u> 0	APPURTENANCES.
	★ TO BE REMOVED UNDER ITEM 110
	DIRECTION OF STORM SEWER FLOW
	LIMITS OF PROP. CUT & RESTORE (ITEM 400)
MATCHLINE	■■■ INST. OM ASSM (OM-2Z)(FLX) GND (BI)
	PROPOSED TRUNK LINE
	NOTES:
	SEE ALIGNMENT DATA SHEET FOR PROPOSED CENTERLINE DATA.
	ALL RCP SHALL BE CL III(SPL) UNLESS OTHERWISE NOTED.
-	SEE HYD. DATA SHEETS FOR HYDRAULIC GRADE LINE (H.G.L.) ELEVATIONS
1	
STE OF TEL	CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
STA.	INLET OFFSETS ARE TO FACE OF
	ROADWAY CURB. MANHOLE OFFSETS ARE TO CENTER OF PRECAST BASE, VERIFY ALL
JORDAN B. SINCLAIR	SHEETS FOR INLET LOCATIONS, ELEVATIONS,
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	Texas Department of Transportation
70	L&G Engineering 2100 W. Expressway 83 Mercedes, TX. 78570
	Highway / Civil Phone : (956) 565-9813 Fax : (956) 565-9018
65	Structural / Bridge Environmental 900 S. Stewart Rd., Ste. 10 Mission, TX. 78572
	Firm No.: F-4105 Phone: (956) 585-1909 Fax : (956) 585-1927
	FM 1925
60	UTILITIES AND DRAINAGE STA. 261+50 TO STA. 262+00
	STA. 261+50 TO STA. 262+00
55	SCALE: - HOR: 1"- 50'
	VER: 1'' - 10' SHEET 1 OF 18 PRAWING: RP FEO. 80. STATE PROJECT NO. HIGHWAY NO. STATE PROJECT NO. HIGHWAY
8.8.55	CK: RP ENCINEER: JBS 6 TEXAS FM1925
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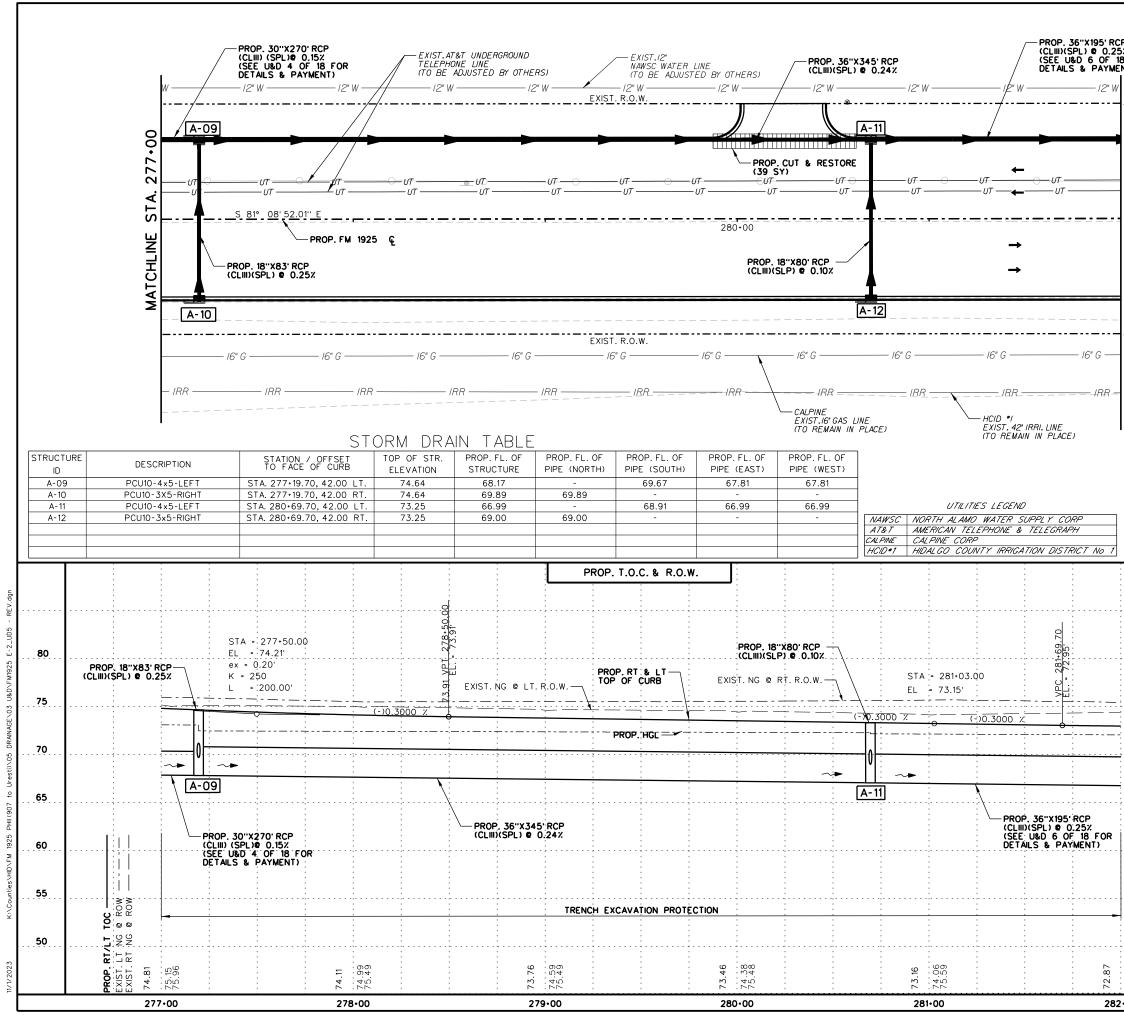
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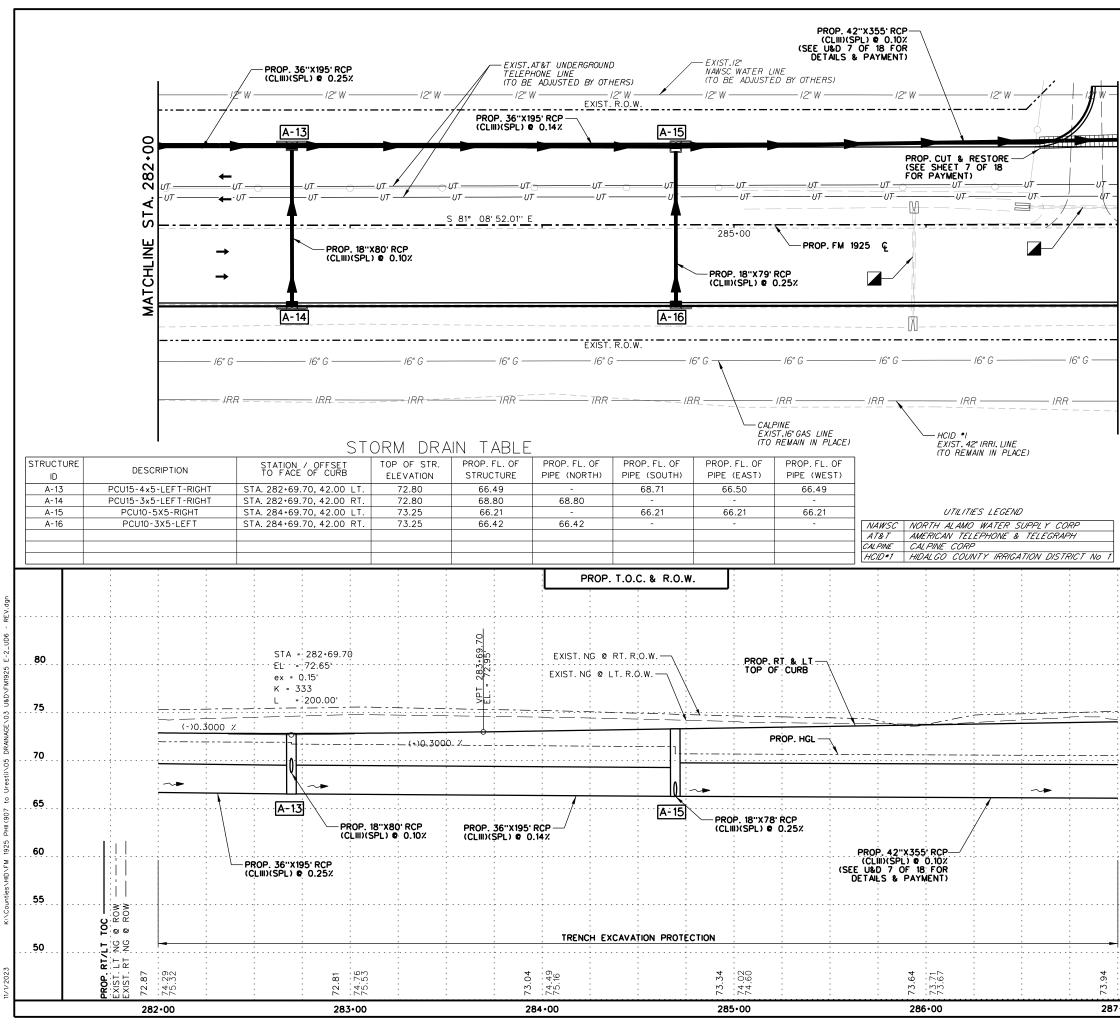
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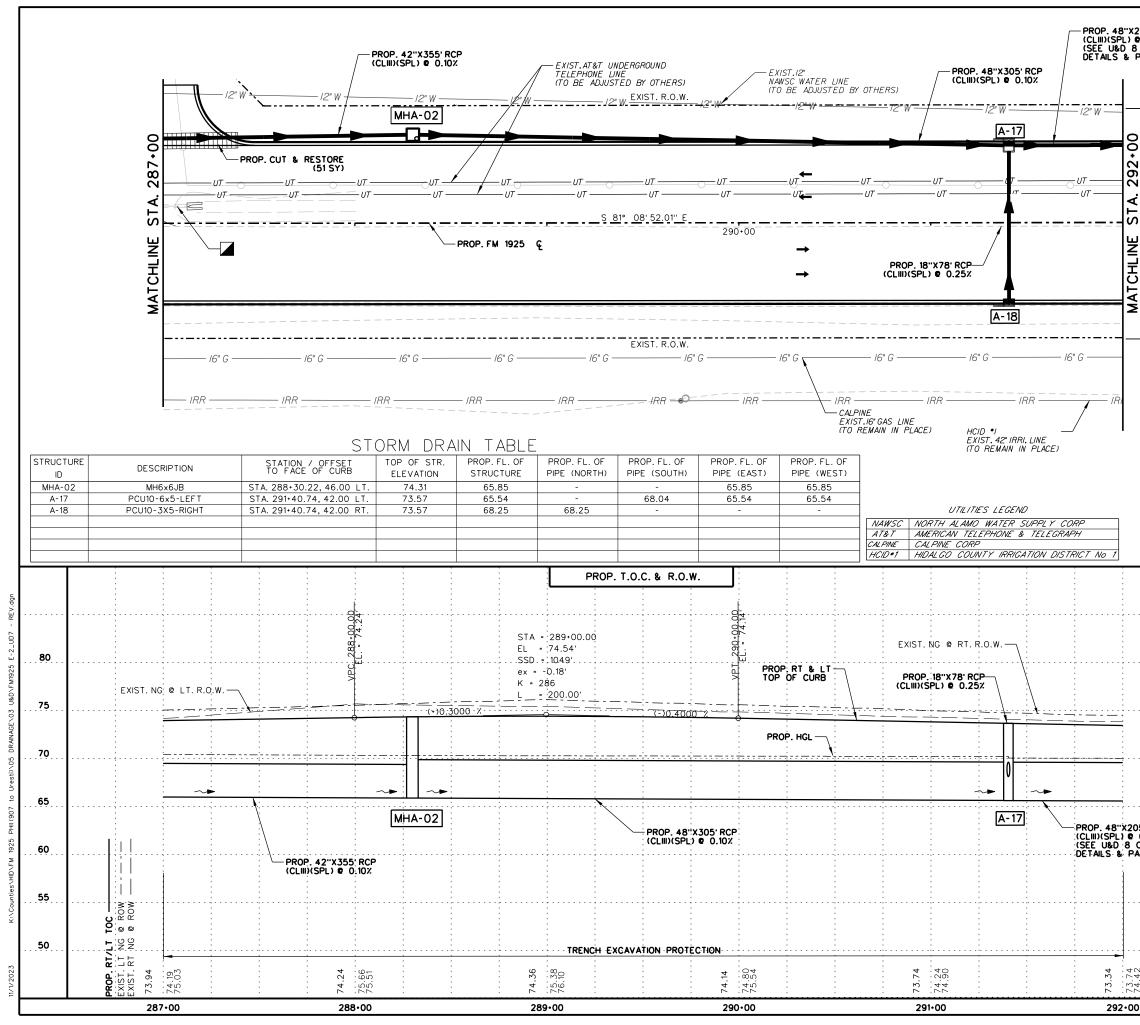
	ITEM	SHEET SUMMARY DESCRIPTION		QUANTITY
1		UCT EXCAVATION (NON-PA		839
	400 SAN	D BACKFILL	CY	266
	402 TRE	& RESTORE NCH EXCAVATION PROT.	SY LF	41 540
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PROP.	*	TO BE REMOVED UNDER I	TEM 110	
PROP.		DIRECTION OF STORM SEV	VER FLOW	
		LIMITS OF PROP. CUT		
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-		ADE LINE (H.G.L.) ELEVATION		
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JORDAN B. SINCL	AIR 💋 INF	E TO CENTER OF PRECAST ORMATION WITH HYDRAULIC	DATA	
127491		EETS FOR INLET LOCATIONS PE LENGTHS, FLOWLINES, ETG		JNS,
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9 <u>5</u>	DRAWING: RP	FED. RD. DIV. NO. STATE	PROJECT NO.	HIGHWAY NO.
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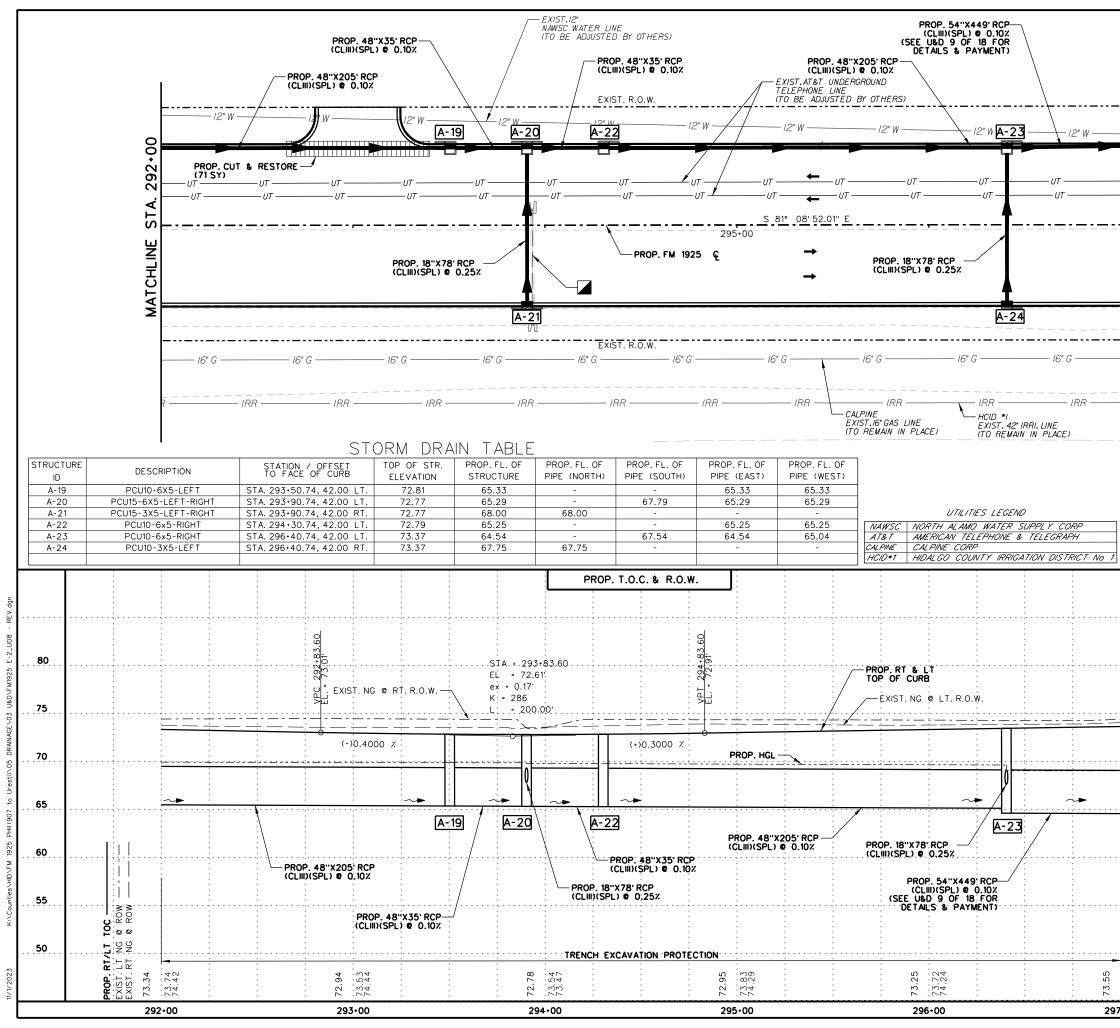
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ENT)	402	TRENCH EXCAVATION PROT. 18" RCP (CL III)(SPL)		508 163
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	<b>A</b>	- DIRECTION OF STORM SEWER	FLOW	
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JORDAN B. SINCLAIR		ROADWAY CURB. MANHOLE OFFSE ARE TO CENTER OF PRECAST BA INFORMATION WITH HYDRAULIC DA SHEETS FOR INLET LOCATIONS, E	ASE. VE ATA	RIFY ALL
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55		FM 1925		~~
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50 NM	DRAWING	(; RP	JECT NO.	HIGHWAY NO.
75 75	ENGINEE	R: JBS 6 TEXAS	SECTION NO.	FM1925 JOB SHEET NO. NO.
32•00	REVIEW		NO. 02	NO. NO. 035 135
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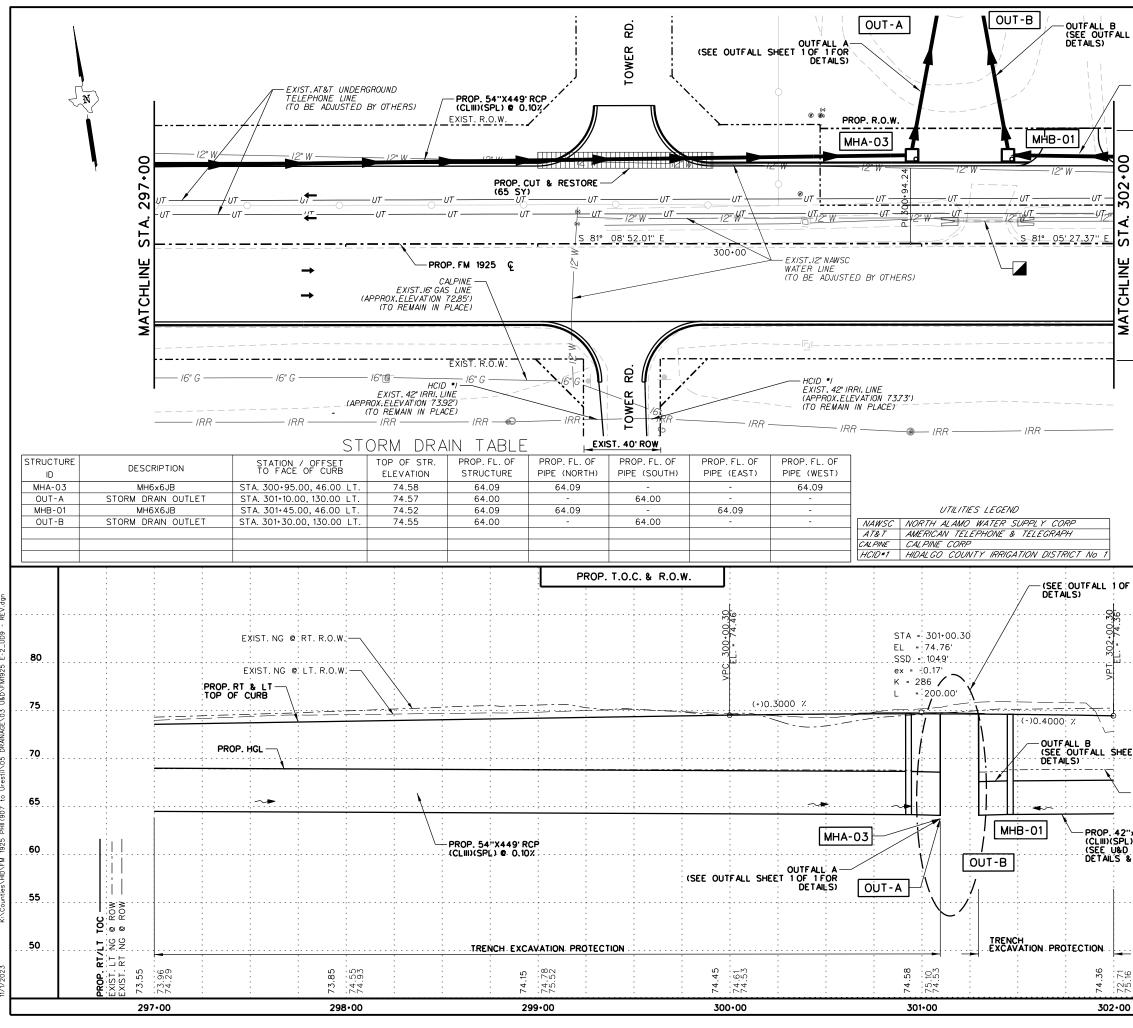
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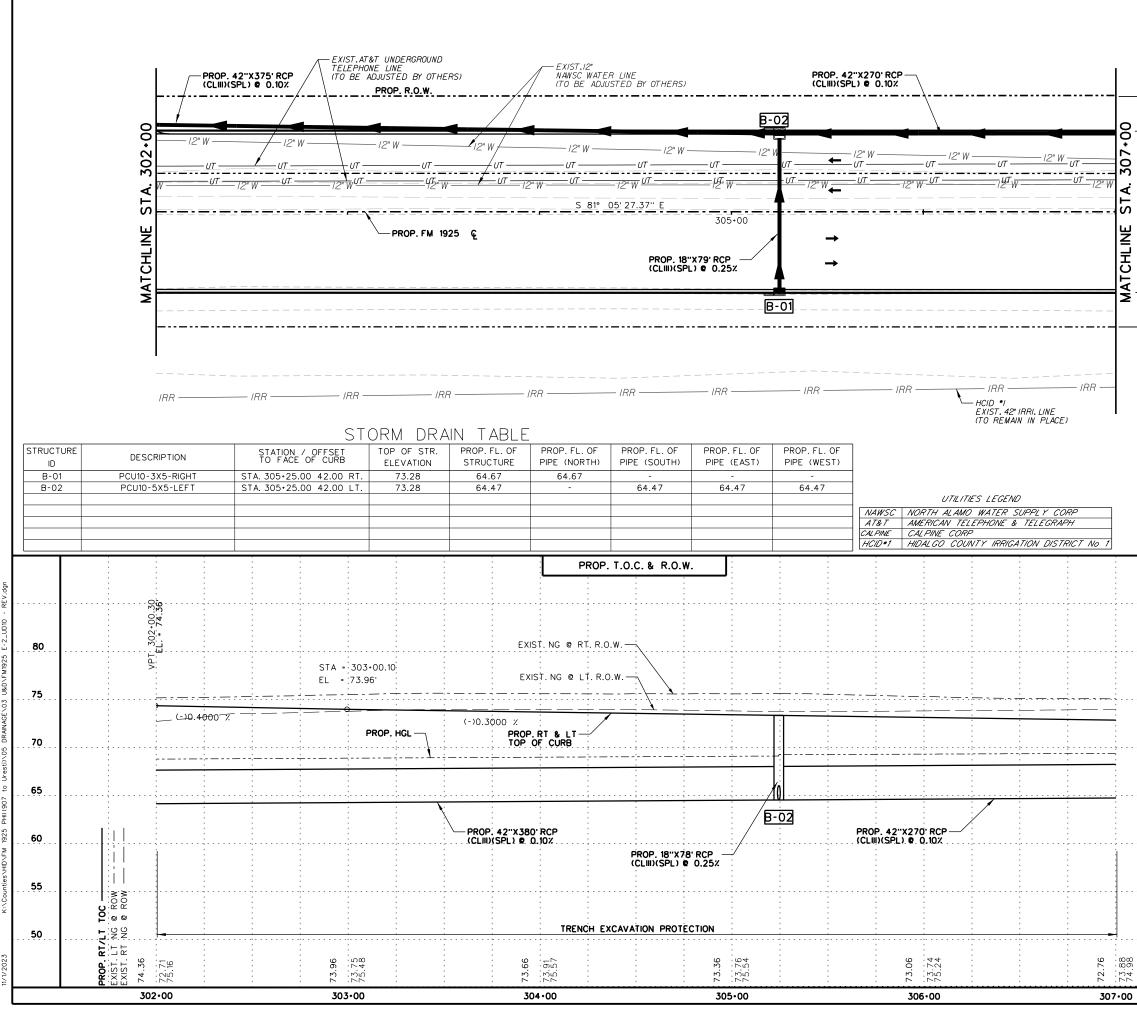
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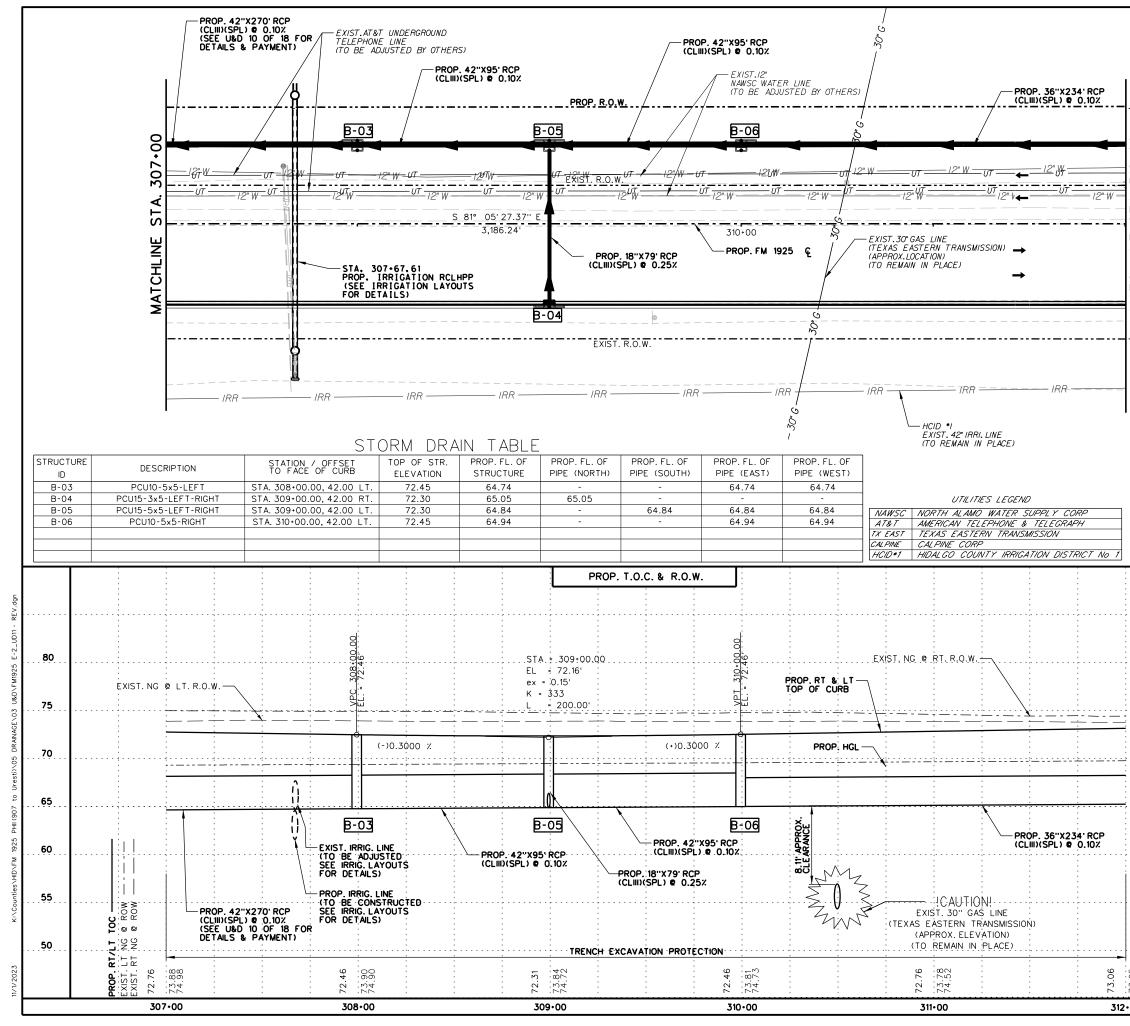
						SHEET SUMMARY
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					1	400 STRUCT EXCAVATION (NON-PAY) CY 1391
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- _					< A>	465         INLET(COMPL)(PCU)(3')(LEFT)         EA         1           465         INLET(COMPL)(PCU)(3')(BOTH)         EA         1
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ĪĒ	42.			-		DIRECTION OF STORM SEWER FLOW
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		, ,				& RESTORE (ITEM 400)
72	ž –		L			INST. OM ASSM (OM-2Z)(FLX) GND (BI)
_	18.					PROPOSED TRUNK LINE
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						NOTES: SEE ALIGNMENT DATA SHEET FOR PROPOSED
						CENTERLINE DATA.
						ALL RCP SHALL BE CL III(SPL) UNLESS
_						OTHERWISE NOTED. SEE HYD. DATA SHEETS FOR HYDRAULIC
						GRADE LINE (H.G.L.) ELEVATIONS
						CONTRACTOR SHALL COORDINATE WITH ALL
			S		and the second	UTILITY COMPANIES TO FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION
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		ã.				INLET OFFSETS ARE TO FACE OF
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	6	JC	RDA	NB.	SINCLAIR	X INFORMATION WITH HYDRAULIC DATA
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				LICE Zowa		© 2023 Texas Department of Transportation L&G Engineering Highway / Civil
		••••••••••••••••••••••••••••••••••••••		LICE Zowa	80 	© 2023 Texas Department of Transportation L&G Engineering Highway / Civil Structural / Bridge Environmental Bruck Constant Highway / Civil Structural / Bridge Environmental 900 S. Stewart Rd., Ste. 10
				LICE Zowa		© 2023 Texas Department of Transportation L&G Engineering Highway / Civil Structural / Bridge Environmental Firm No. : F-4105 Phone: (956) 565-913 Fax : : : (956) 565-913 Fax : : : : : : : : : : : : : : : : : : :
					80 	© 2023 Texas Department of Transportation C 2023 Texas Department of Transportation L&G Engineering Highway / Civil Structural / Bridge Environmental Phone : (956) 655-9813 Fax : (956) 955-9813 Fax : (956) 955-
					80 	© 2023 Texas Department of Transportation C 2023 Texas Department of Transportation L&G Engineering Highway / Civil Structural / Bridge Environmental Firm No. : F-4105 Phone : (956) 685-1909 Fax : (956) 585-1909 Fax : (956) 585-1907 Fax : (956) 585-1909 Fax : (956) 585-1907 Fax : (956) 585-190
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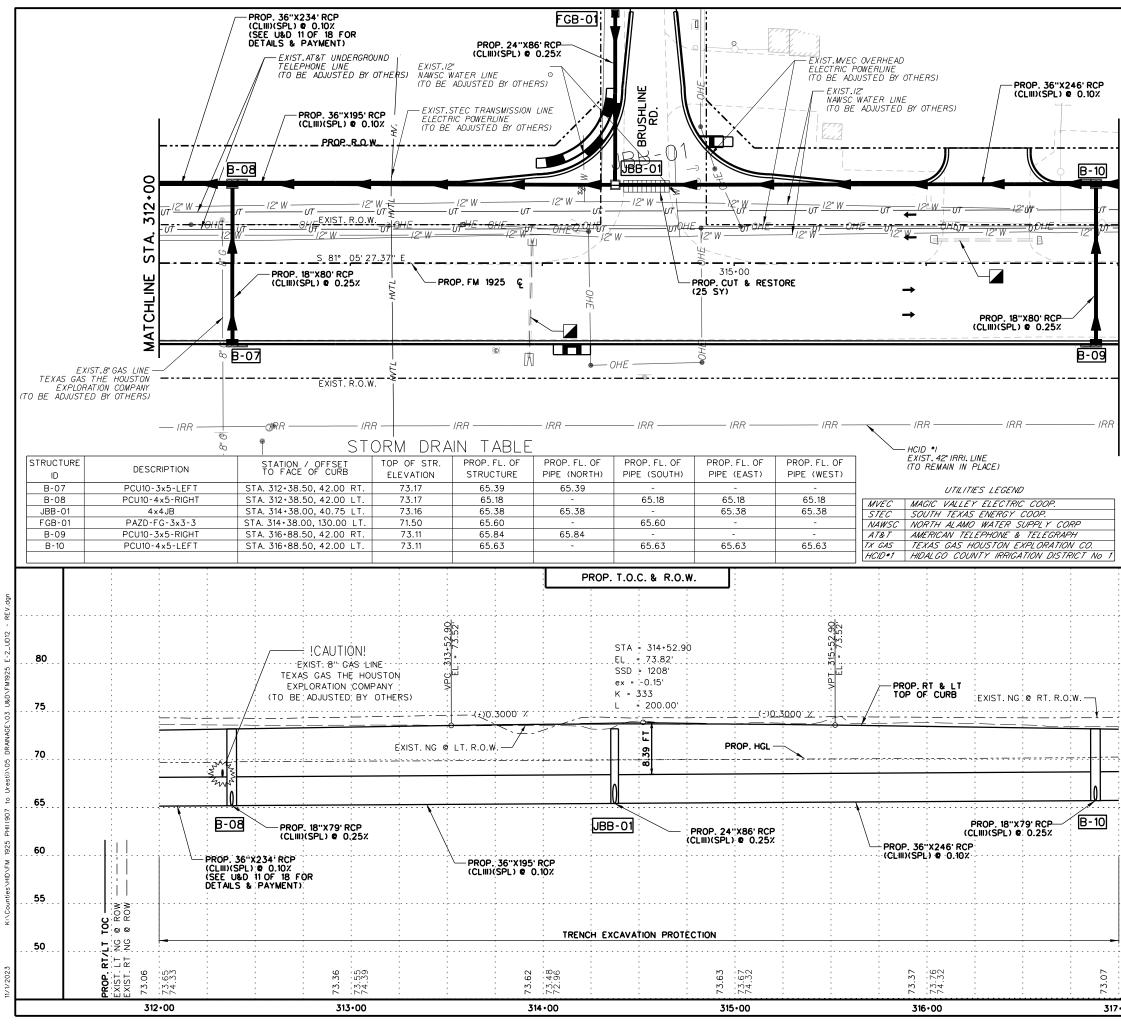
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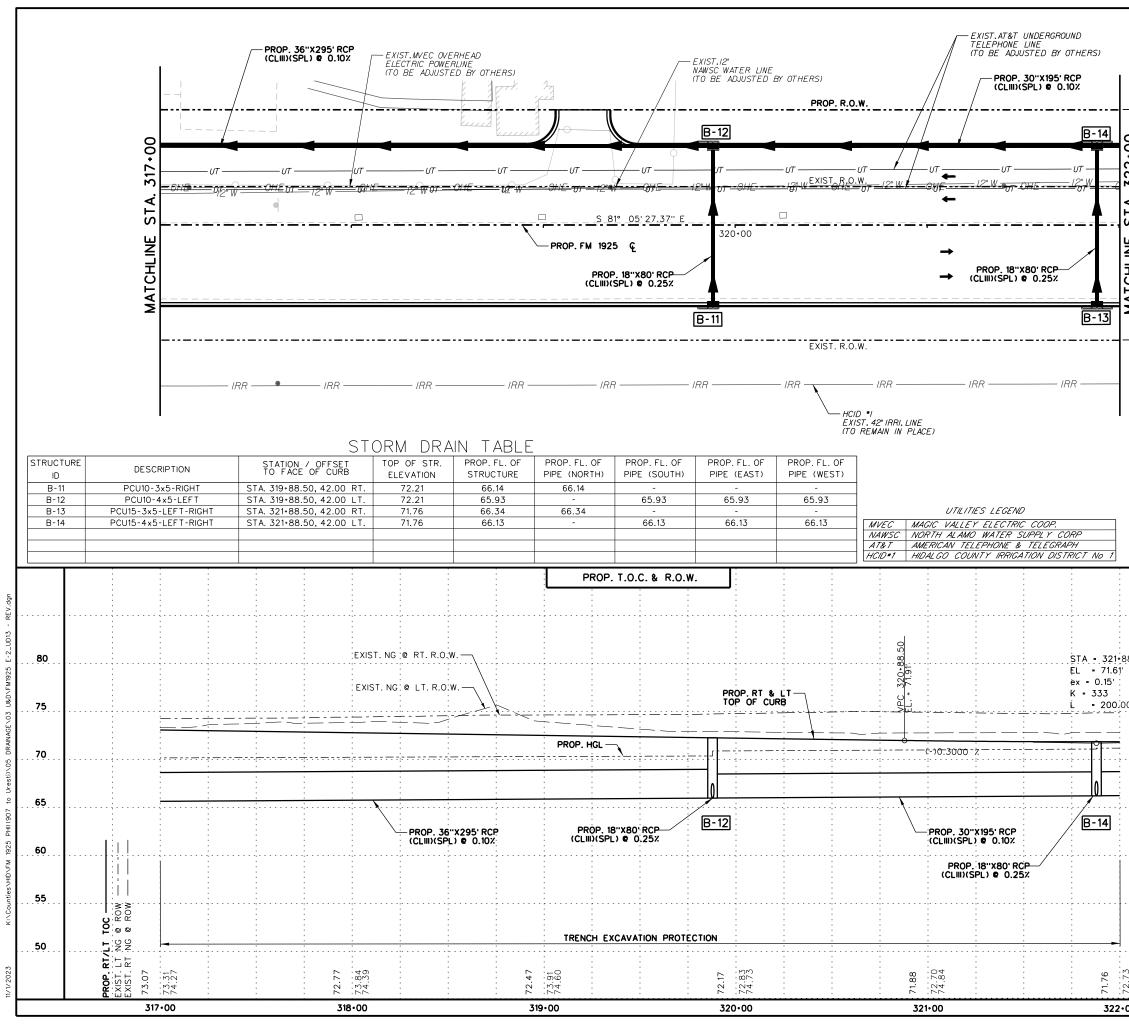
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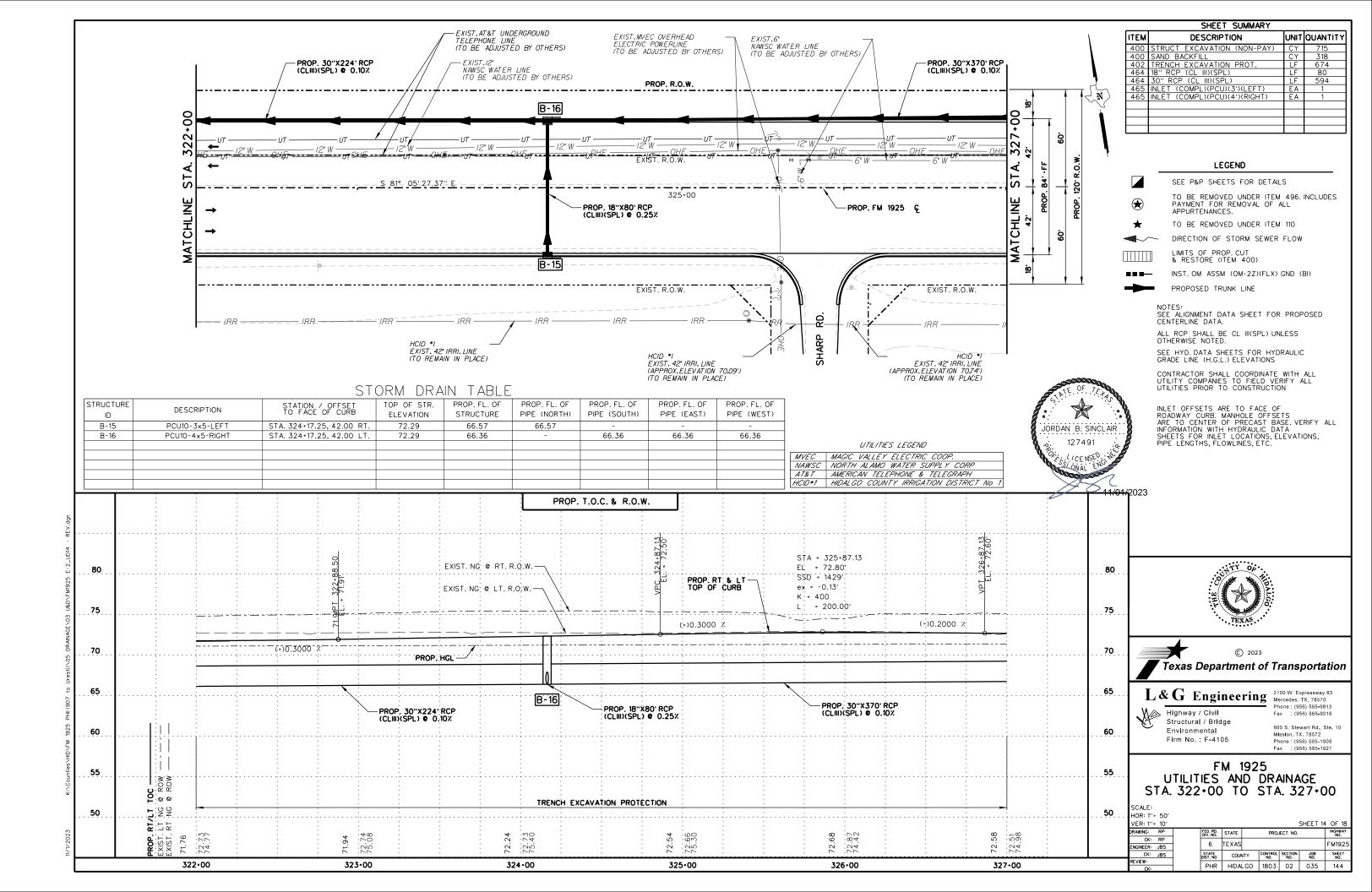
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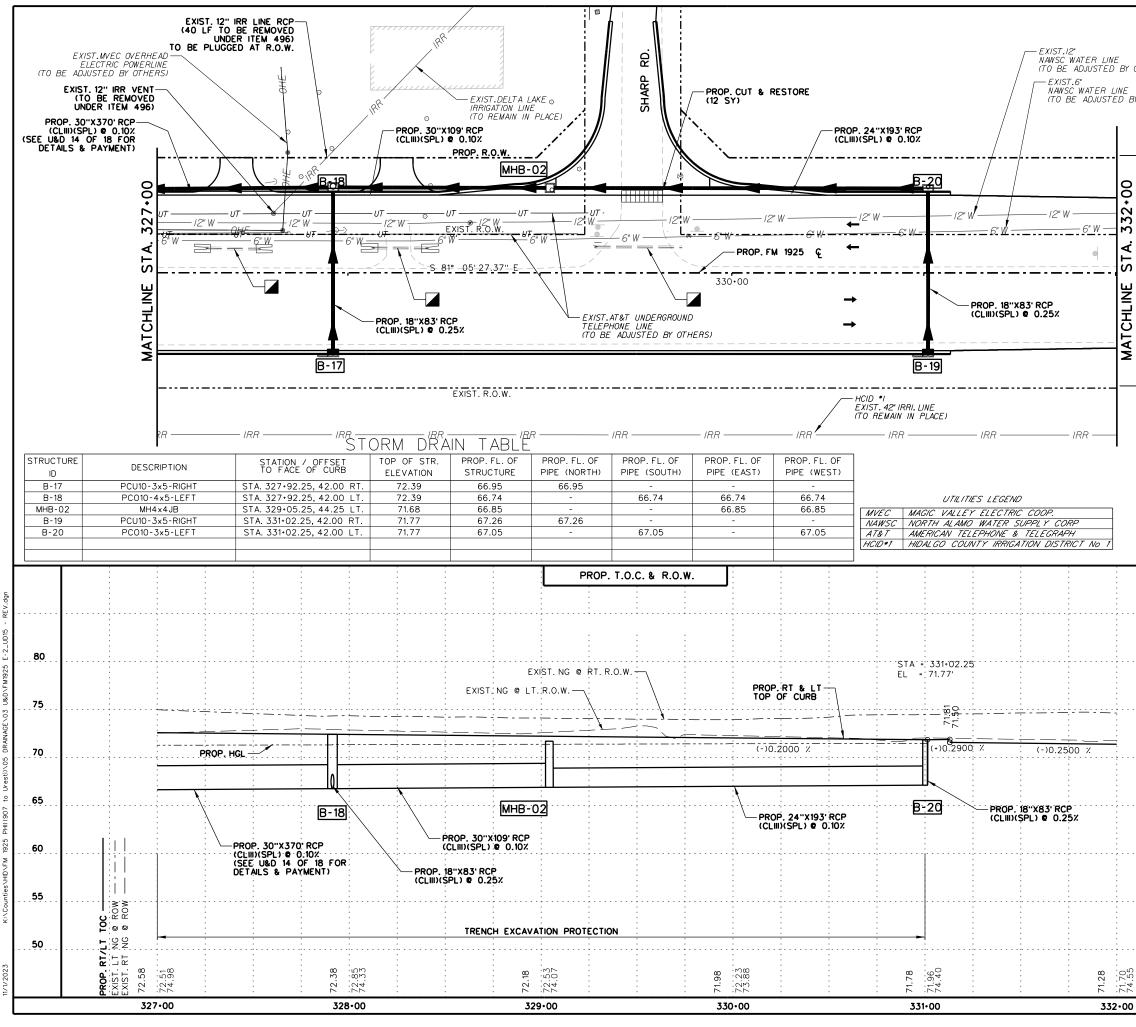


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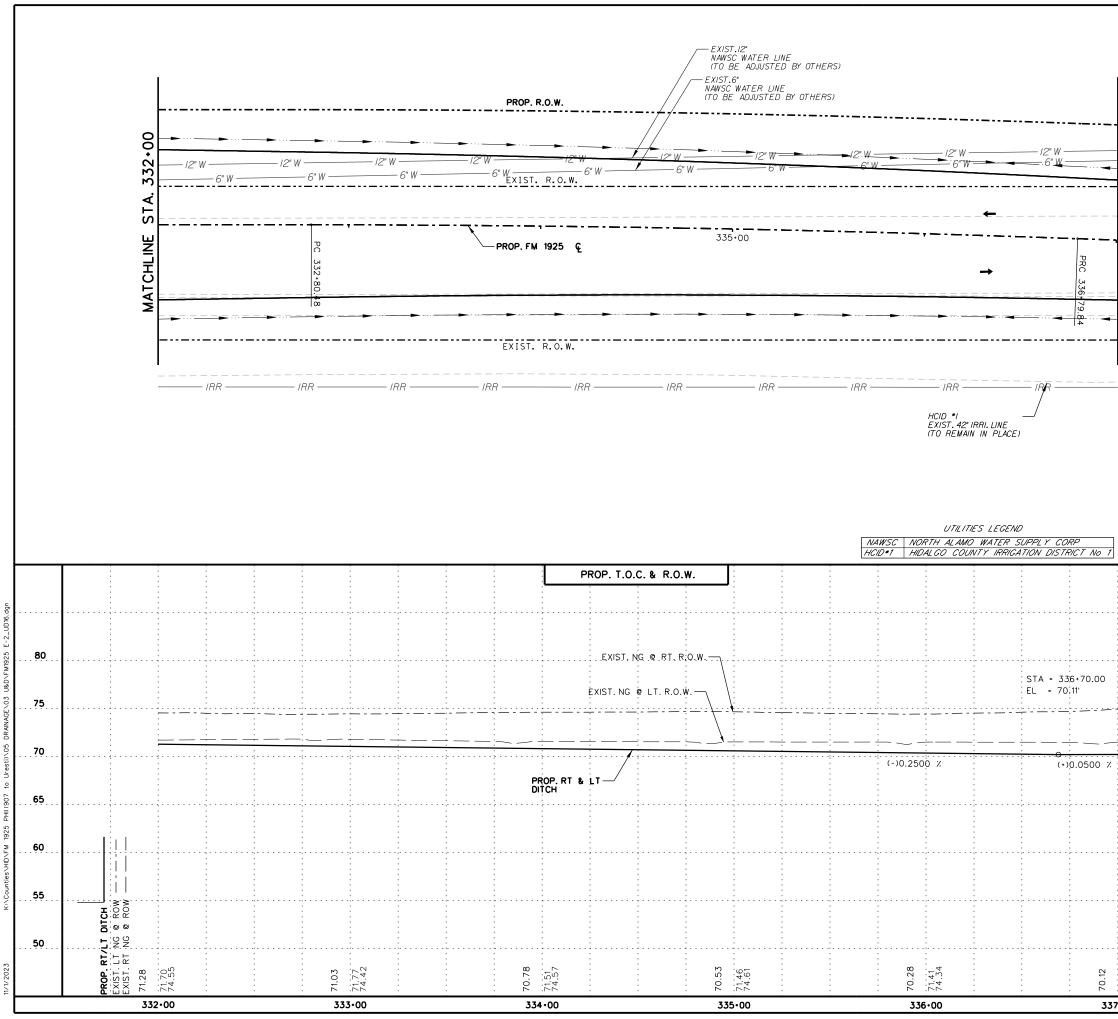


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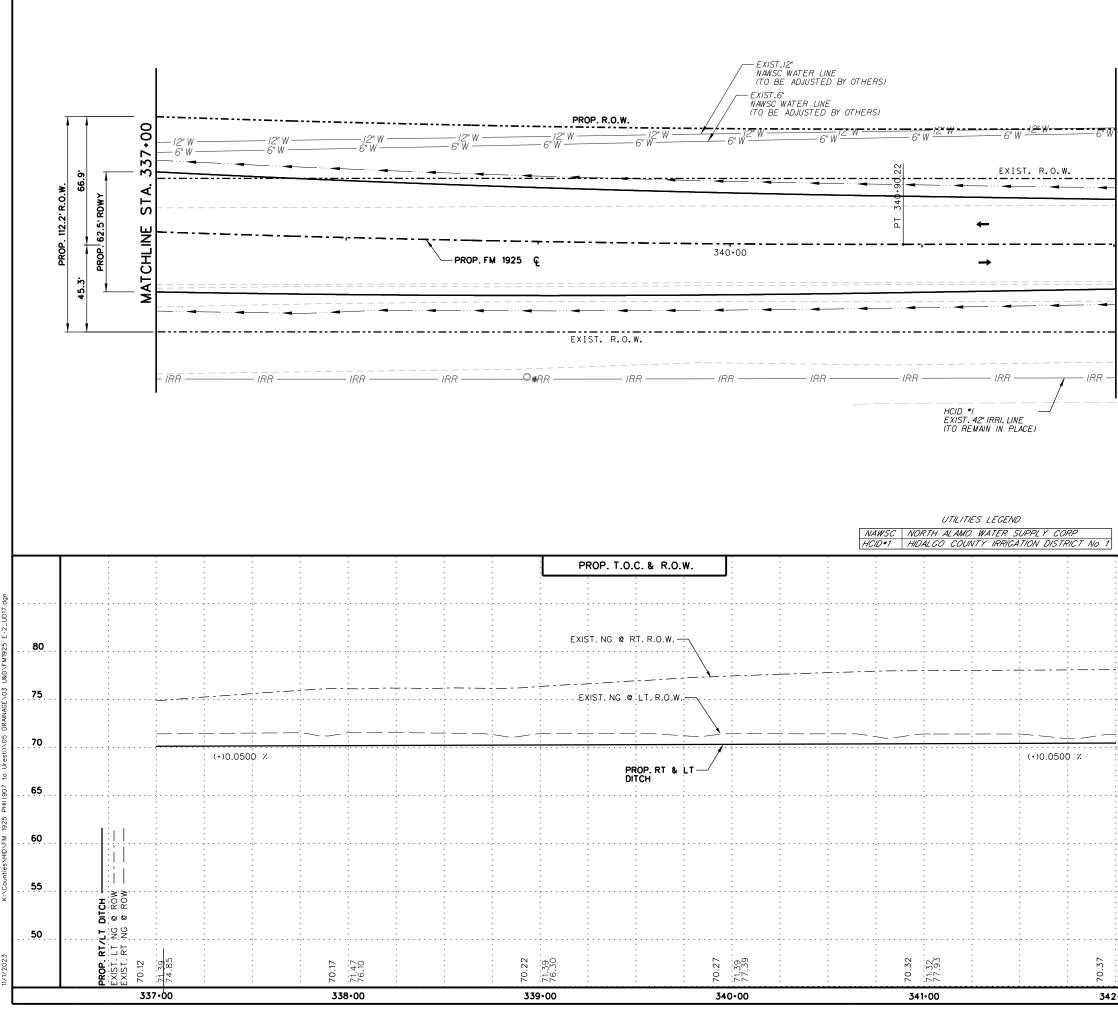




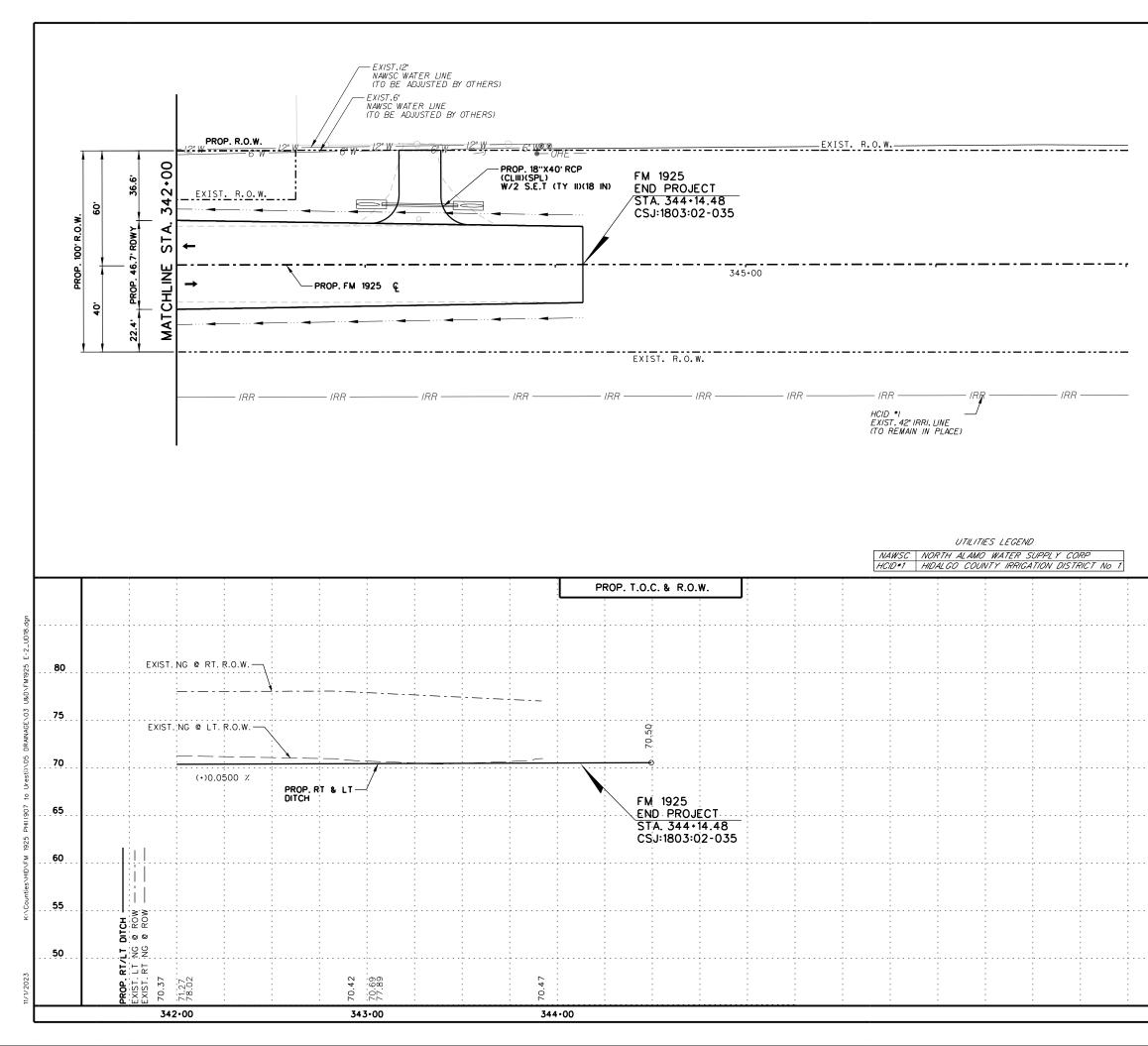
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	SHEET SUMMARY											
ITEM	DESCRIPTION	UNIT	QUANTITY									
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467	SET (TY II) (18 IN) (RCP) (6:1) (P)	ΕA	2									

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ALL RCP SHALL BE CL III(SPL) UNLESS OTHERWISE NOTED.

SEE HYD. DATA SHEETS FOR HYDRAULIC GRADE LINE (H.G.L.) ELEVATIONS

CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION

INLET OFFSETS ARE TO FACE OF ROADWAY CURB. MANHOLE OFFSETS ARE TO CENTER OF PRECAST BASE. VERIFY ALL INFORMATION WITH HYDRAULIC DATA SHEETS FOR INLET LOCATIONS, ELEVATIONS, PIPE LENGTHS, FLOWLINES, ETC.



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L&G Engineering 2100 W. Expressway 83 Mercedes, TX. 78570 Phone (956) 565-9813 Fax (956) 565-9018

> 900 S. Stewart Rd., Ste. 10 Mission, TX. 78572 Phone : (956) 585-1909 Fax : (956) 585-1927

# FM 1925 UTILITIES AND DRAINAGE STA. 342+00 TO STA. 344+15

Highway / Civil Structural / Bridg

Structural / Bridge

Firm No. : F-4105

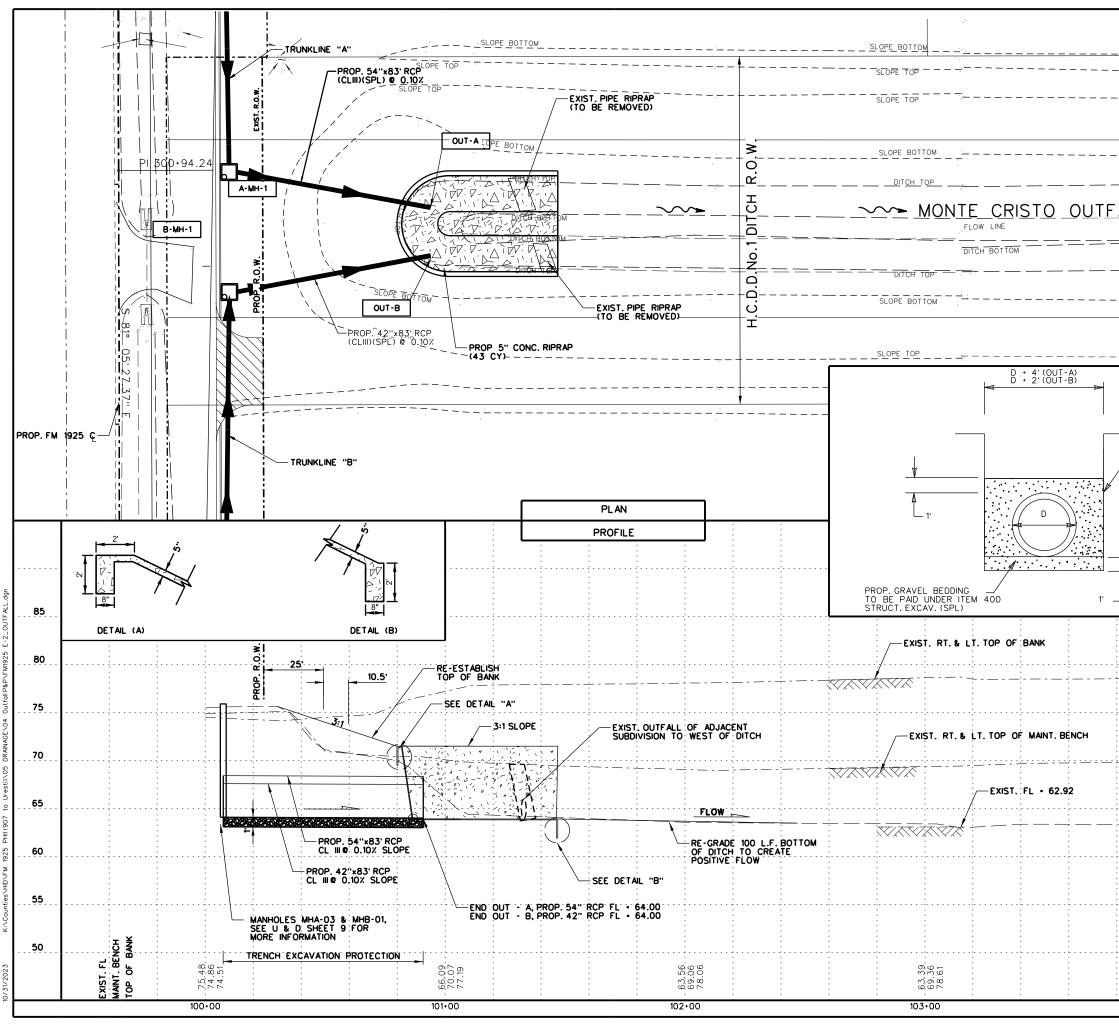
Environmental

E0	SCALE: HOR: 1''= 5 VER: 1''= 10	-						SHEET 18	3 OF 18
	DRAWING: RF		FED. RD. DIV. NO.	STATE		PROJ		HIGHWAY NO.	
	CK: RF	>	6	TEXAS					FM1925
	ENGINEER: JB	s	0	IEAAS					FM1925
	CK: JB	S	STATE DIST, NO	COUNTY		CONTROL NO.	SECTION NO.	JOB NO,	SHEET NO.
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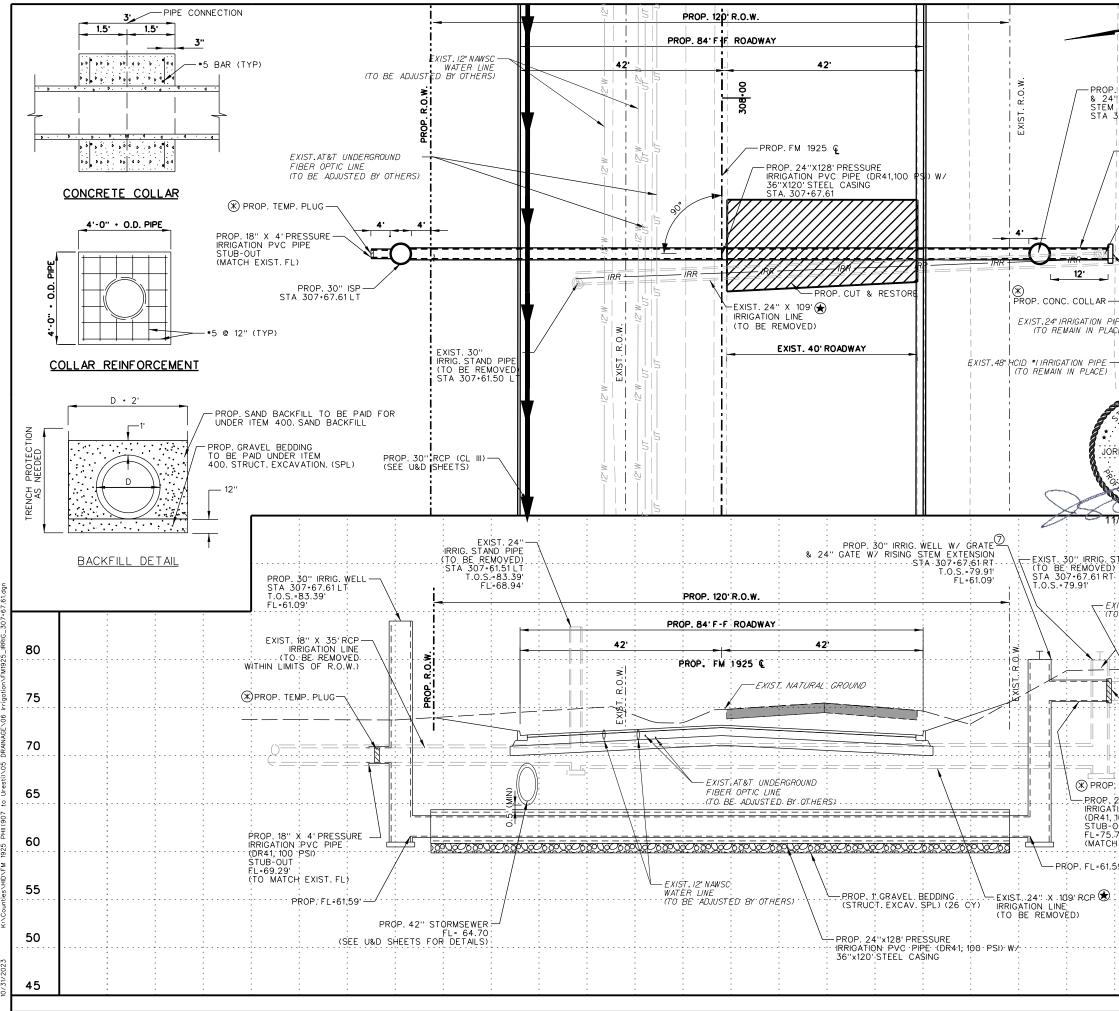




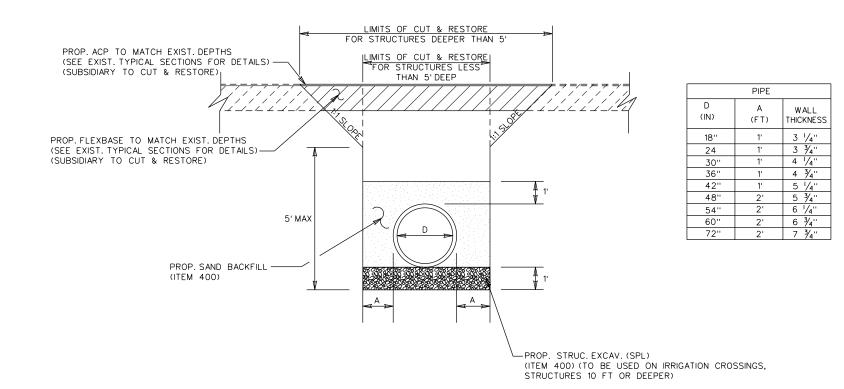
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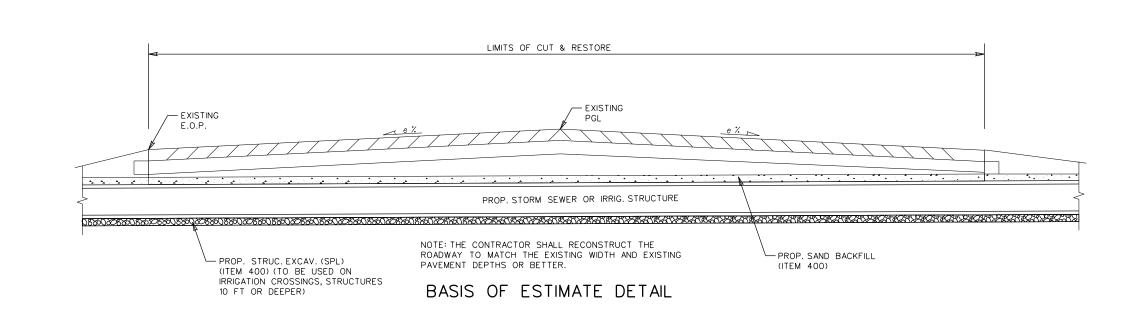


		SHEET SUMMARY		
	ITEM	DESCRIPTION	UNIT	QUANTITY
	400 STRU	VE_CONC.(RIPRAP) CT_EXCAVATION_(NON-PAY)	SY CY	18 506
	400 SAND	BACKFILL CT EXCAVATION (SPL)	CY CY	172 29
	402 TREN	CH EXCAVATION PROT. , RIPRAP (5'')	LF	166 43
	464 42" F	CP (CL III)(SPL) CP (CL III)(SPL)	LF	83
	404 04 1			
	$\sim$	DIRECTION OF FLOW		
		SEE P&P SHEETS FOR D	ETAILS	
	$\overline{\mathbb{R}}$	FOR CONTRACTORS INFO	ATION	ONLY,
		NON PAY		
ALL_		PROPOSED FILL		
		PROPOSED STORM SEWER	RTRUN	NK LINE
	NOTES			
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		ANY DAMAGES DONE TO T L BE REPAIRED AT CONTRA		
		'ERT STRUCTURES TO BE D INTRACTOR OPTS TO DO I		
	PHAS	E, ANY SPECIAL SHORING R	EQUIRE	
	3. SEE	UBSIDIARY TO CULVERT ITE ALIGNMENT DATA SHEET FO		P.
	CENT	ERLINE DATA.		
- PROP. SAND BACKFILL				
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		JORDAN B. SINCLAIR		
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65	L&			oressway 83
	I —	ighway / Civil Fa		X.78570 3)565-9813 3)565-9018
	ST ST	ructural / Bridge		art Rd., Ste. 10
60		rm No. : F-4105 Pr	ssion, TX one : (956	78572 6) 585-1909
				585-1927
		FM 1925 OUTF	ALL	
		A & B DETA	L	
50	SCALE:			
	HOR: 1"= 40' VER: 1"= 10'	· · · · · · · · · · · · · · · · · · ·		HEET 1 OF 1
8.53	DRAWING: CK:	1	JECT NO.	HIGHWAY NO.
7200	ENGINEER: CK:	6 TEXAS	SECTION NO.	FM1925 JOB SHEET NO. NO.
104+00	REVIEW: CK:	PHR HIDALGO 1803	NO. 02	035 149



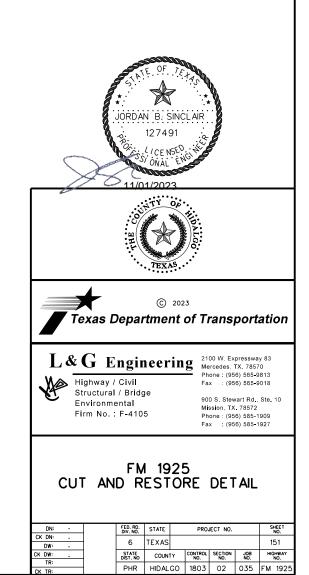
			SHEET SUMMARY	
J. T.		ІТЕМ	DESCRIPTION	UNIT QUANTITY
	*		STRUCTURAL EXCAVATION STRUCTURAL EXCAV. (SPL)	CY 347 CY 26
- IB	F		SAND BACKFILL CUT & RESTORE	CY 81 SY 67
	$\bigcirc$	402	TRENCH EXCAV. PROTECTION	LF 133
P. 30" IRRIG. WELL W/ 4" GATE W/ RISING	GRATE	496 I	CMP (GAL STL 36 IN) CASING REMOVE STRUCTURE (PIPE)	LF 120 LF 144
4 EXTENSION 307+67.61 RT			RRIGATION WELL (30'') RRIGATION GATE (24'')	EA 2 EA 1
	•	1008 F	PRSSR IRRIG PVC PIPE (18'') PRSSR IRRIG PVC PIPE (24'')	LF 4
	-	1008 1	LEGEND	LF 140
PROP. 24" X 12' PR IRRIGATION PVC PI	PE (	r) (	NON-PAY, SUBSIDIARY TO PERTINE	NT BID ITEMS.
(DR41, 100 PSI) STUB-OUT	e		O BE REMOVED UNDER ITEM 496 PAYMENT FOR REMOVAL OF ALL /	
	Q	R 1	O BE REMOVED UNDER ITEM 496 PAYMENT FOR REMOVAL OF ALL	
EXIST. 30" IRRIG. STAND PIPI	F 7	~	APPURTENANCES.	
W/ GATE (TO BE REMOVE			IMITS OF PROP. CUT & RESTORE	(IIEM 400)
STA 307+67.61 R			PROPOSED TRUNK LINE	
	1.THE CO	ONTRA	CTOR WILL COORDINATE WITH HCI	D NO. 1
-  /// -  ///	TW∩	(2) WF	FKS PRIOR TO ANY WORK DONE	ON OR NEAR
+'	THAT THE F	AFFE	ION STRUCTURES. ANY CONSTRUCT TS THE DELIVERY OF WATER OF 0.1 MUST BE APPROVED IN WRITI INCLUDING BUT NOT LIMITED TO S	R OPERATION OF NG BY THE
	HCID	NO. 1, DULE I	INCLUDING BUT NOT LIMITED TO, S DURING ANY HIGH-WATER DELIVER	SUSPENSION OF Y SEASON.
4 <i>φΕ)</i>	ANY /	APPRO	VED AND SCHEDULED INTERRUPTION	ON OF WATER
			VORKING OUTSIDE THE ROW THE	
	SHAL	L CON	NTACT THE AREA ENGINEER, CAUTI NOT TO DAMAGE EXISTING FENG	ION SHALL
	ETC.	THE (	CONTRACTOR SHALL NOTIFY PROF HEN WORKING OUTSIDE THE ROW	PERTY
ATE. OF. JET	DAM	AGES		LL BE
5 <sup>1</sup>			AT CONTRACTORS EXPENSE.	
	COM		S TO FIELD VERIFY UTILITIES PRIC	
127491			BOWS, AND CONNECTIONS SHALL	BE
S. LICENSED HUS	5. THE (	CONTR	ACTOR SHALL CONFIRM THAT THE	
SY ONAL ENG	ELEN	/ ATION	ON THE PROPOSED STANDPIPES ELEVATION AS THE EXIST. STAND	IS AT
1/01/2023		6. G	ATE SEATING HEAD IS 26 FT. JNSEATING HEAD IS 10 FT.	
: :				
STAND PIPE W/ GATE	90	(	REGATION WELL TO HAVE A GALVANIZED STEEL GRATE ANCHOR	RED
T.		(	TO THE TOP OF STANDPIPE TO BE SUBSIDIARY TO ITEM 1007 CONTRACTOR SHALL SUBMIT ANCH	7).
· · · · · · · · · · · · · · · · · · ·	05	ιl	DETAILS TO HOLD NO. IFOR APPRO	OVAL
XIST.24" IRRIGATION PIPE TO REMAIN IN PLACE)	85	ŀ	PRIOR TO CONSTRUCTION.	
N I	80			
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· · · · · · · · · · · · · · · · · · ·			© 2023	
			Texas Department of Tr	ansportation
P; CONC. COLLAR	65	<b>-</b>	0 <b>C</b> –	
124" X. 12" PRESSURE			A G Engineering Me	00 W. Expressway 83 rcedes, TX, 78570
, 100 PSI) OUT		.W	Aighway/Civil Fax	one (956) 565-9813 x (956) 565-9018
5.74' CH EXIST.FL)	60	X4		D S. Stewart Rd., Ste. 10
έο.			Firm No.: F-4105	ssion, TX. 78572 one : (956) 585-1909 
.59'			Fa	x : (956) 585-1927
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			IRRIG. LAYOUT	
			STA 307+67.6	1
	50	SCALE: HOR: 1''		
		VER: 1'' DRAWING:	- 10'	SHEET 1 OF 1
		CK:		ECT NO. HIGHWAY NO. FM1925
		ENGINEER: CK:		SECTION JOB SHEET NO. NO. NO.
		REVIEW: CK:	PHR HIDALGO 1803	02 035 150

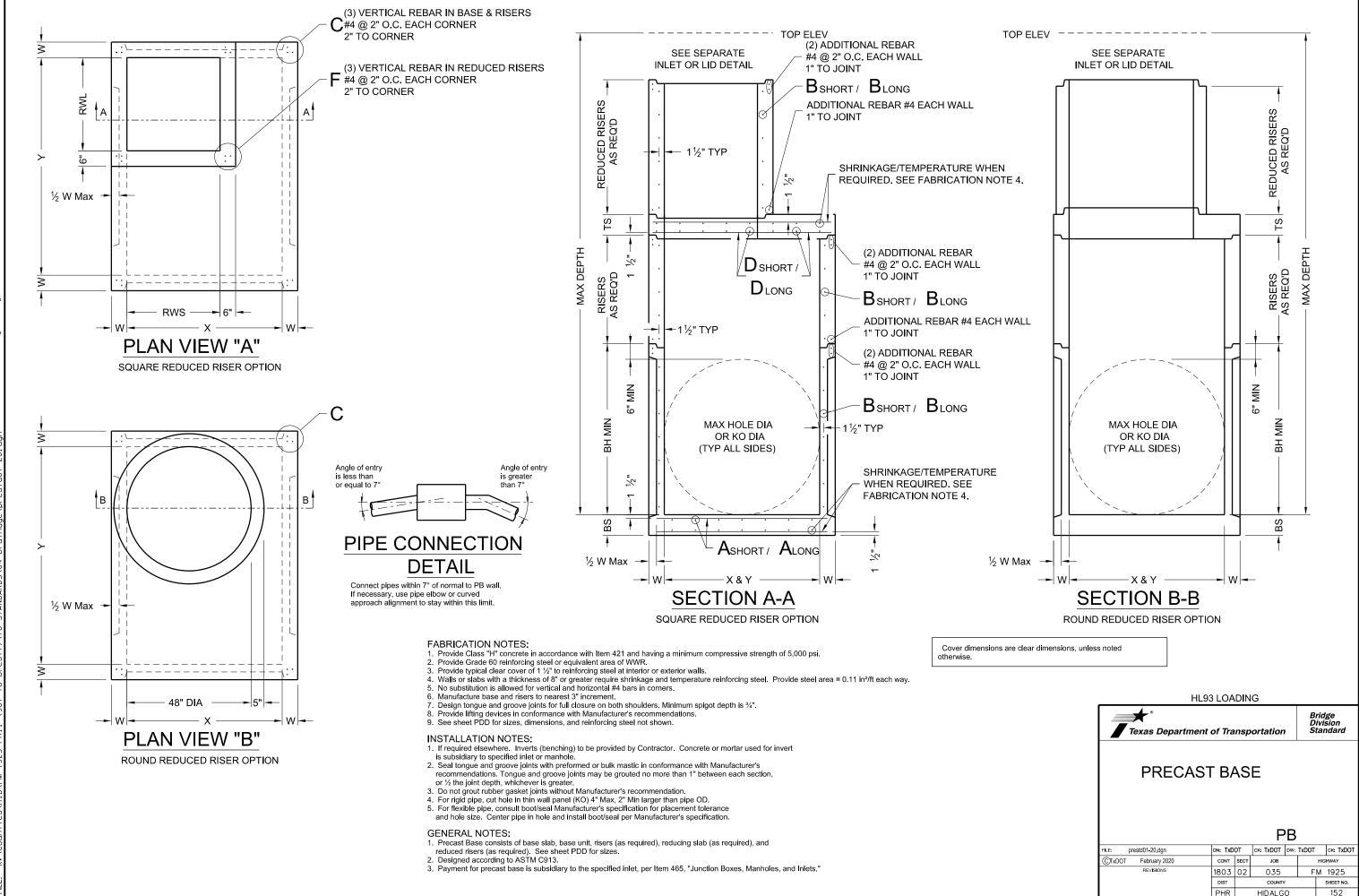




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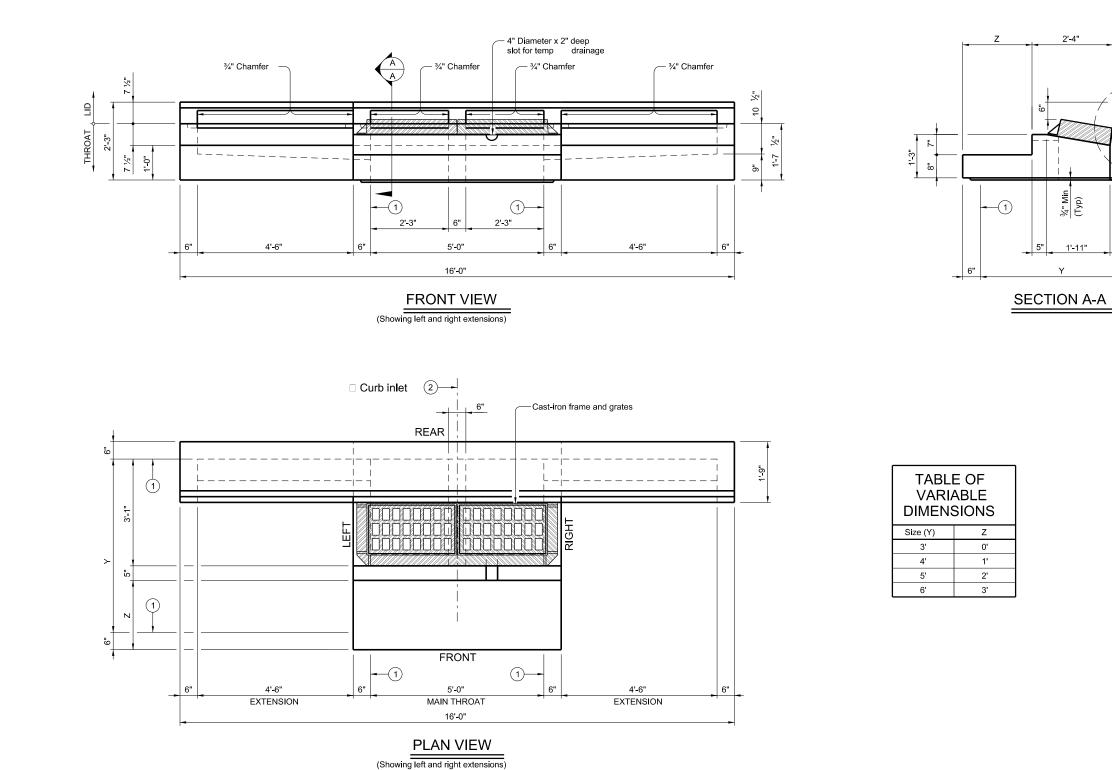
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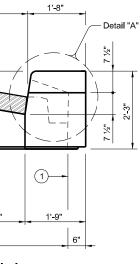


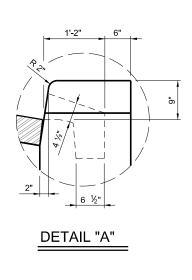
No warranty of any sibility for the conve Engineering Practice TxDOT assumes no 'Texas | bever. this standard is governed by the by TxDOT for any purpose whats ຫຼືຫຼື foo ອູຢ່າງອາ ຊີທູຊູກອຸts or for incorrec

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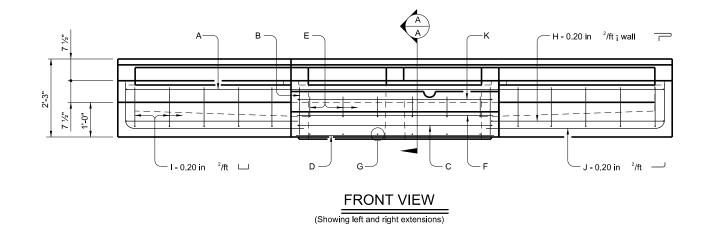


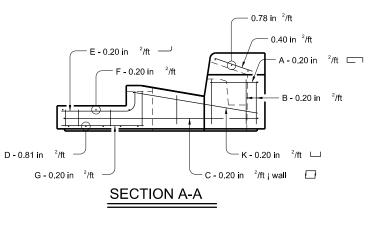
(1) Matches inside face of wall of precast base or riser below inlet.

(2) Reference point is located where the i of the main throat intersects the normal gutter line. See Curb and Gutter Transition Details for PCO Inlet (CGT-PCO) standard for more information.

HS20 LOADING	SHE	EET 1 OF 2							
Texas Department	Bridge Division Standard								
PRECAST CURB INLET UNDER ROADWAY									
		P	CU						
F⊾E: CD-PCU-23.dgn	DN: TXD	от	CK: TXDOT DW	TxDOT	ск: TxDOT				
CTxDOT February 2020	CONT	SECT	JOB		HIGHWAY				
REVISIONS	1803	02	035	FN	1925				
06-2023. Added reference point.	DIST		COUNTY		SHEET NO.				
	PHR	ł	HIDALGO		153				

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6" REAR \_ \_ - -- -\_ \_ 3'-1" RIGHT Ц – н  $\searrow$ 5 C 10 FRONT E E F -4'-6" 5'-0" 6' 4'-6" 6" 16'-0"

FABRICATION NOTES:

- employ a butt joint with dowels at the Contractor's option. 6. Provide lifting devices in conformance with Manufacturer's recommendations.
- 7. Chamfer vertical edges on inlet lid

- depth, whichever is greater
- 3. Do not grout rubber gasket joints without Manufacturer's recommendation.
- GENERAL NOTES:
- 1. Designed according to ASTM C913.
- Dependence according to Form Orio.
   Open area of main throat = 324 sq in. Open area of one extension throat = 324 sq in.
   Payment for inlet is per Item 465, "Junction Boxes, Manholes and Inlets" by type, size and extension placement. Extensions are subsidiary to inlet.



(Showing left and right extensions)

Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
 Provide Grade 60 reinforcing steel or equivalent area of WWR.
 Provide typical clear cover of 1 ½" to reinforcing steel from surface of concrete or lower outside shoulder.

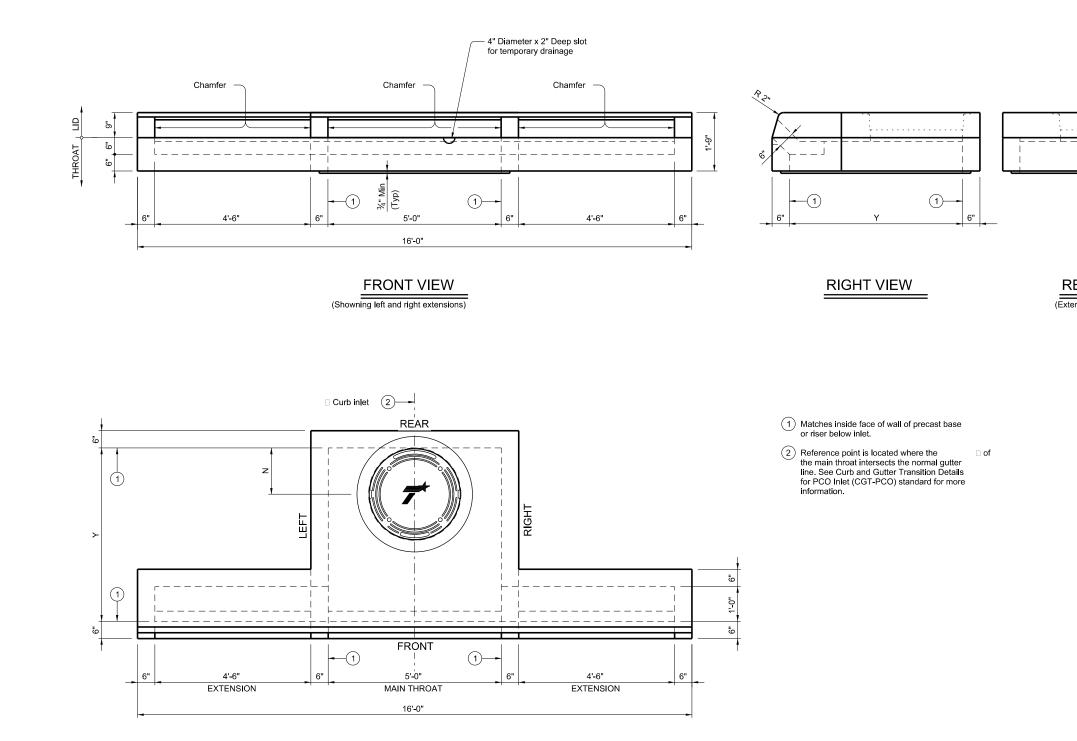
 $\frac{1}{2}$ " to reinforcing steel from surface of concrete or lower outside shoulder. For the specified end of the specified

<sup>3</sup>/<sub>4</sub>" as shown in Front View, sheet 1.

INSTALLATION NOTES: 1. Inlet throat is placed under roadway and intended for direct traffic. Inlet lid is not for direct traffic. Do not

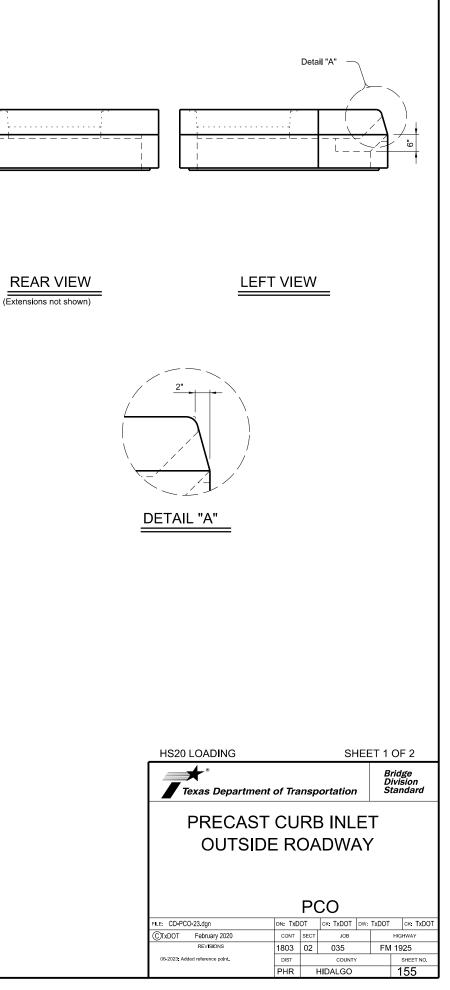
Inter the tribut is placed internet of the method is a method in the method is place in the tribut is place in the tribut is placed way.
 Seal tongue and groove joints and butt joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint is placed way.

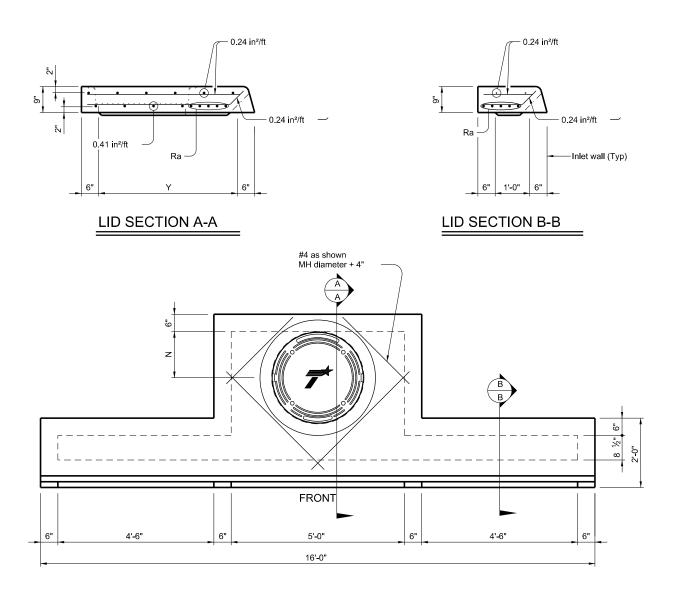
HS20 LOADING	EET	ET 2 OF 2								
Texas Department		Bridge Division Standard								
PRECAST CURB INLET UNDER ROADWAY										
		P	CU							
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CTxDOT February 2020	CONT	SECT	JOB		HIG	GHWAY				
REVISIONS	1803	02	035		FM 19	925				
06-2023; Added reference point.	DIST		COUNTY		SHEET NO.					
	PHR	I	HIDALGO			154				

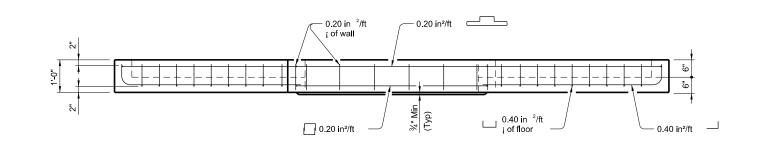


PLAN VIEW

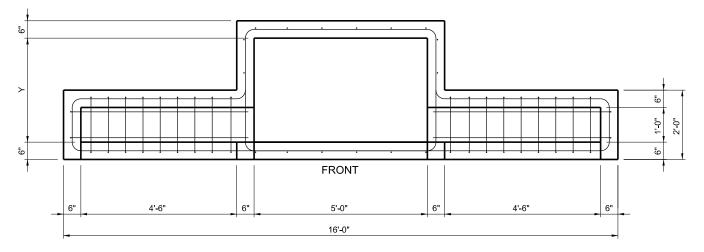
(Showning left and right extensions)







THROAT ELEVATION VIEW (Showning left and right extensions)



# LID PLAN VIEW

(Showning left and right extensions)

## FABRICATION NOTES:

- 1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
- Provide Grade 60 reinforcing steel or equivalent area of WWR.
   Extensions may be right, left, both or none. Provide extensions as specified elsewhere in the plans.
- 4. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is 3/4".
- Design employ a butt joint with dowels at the Contractor's option.
   Provide lifting devices in conformance with Manufacturer's recommendations.
   Provide cast iron solid cover, unless noted otherwise elsewhere in the plans.
- $\frac{3}{4}$ " as shown in Front View, sheet 1. 7 Chamfer vertical edges of inlet lid

INSTALLATION NOTES:

- Inlet front and lid are not intended for direct traffic. Do not place in roadway.
   Seal tongue and groove joints and butt joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint
- depth, whichever is greater. 3. Do not grout rubber gasket joints without Manufacturer's recommendation.

### GENERAL NOTES:

- Designed according to ASTM C913.
   Open area of main throat = 360 sq in. Open area of one extension throat = 324 sq in.
   Payment for inlet is per Item 465, "Junction Boxes, Manholes, and Inlets" by type, size, and extension placement. Extensions are subsidiary to inlet.

Cover dimensions are clear dimensions, unless noted otherwise.

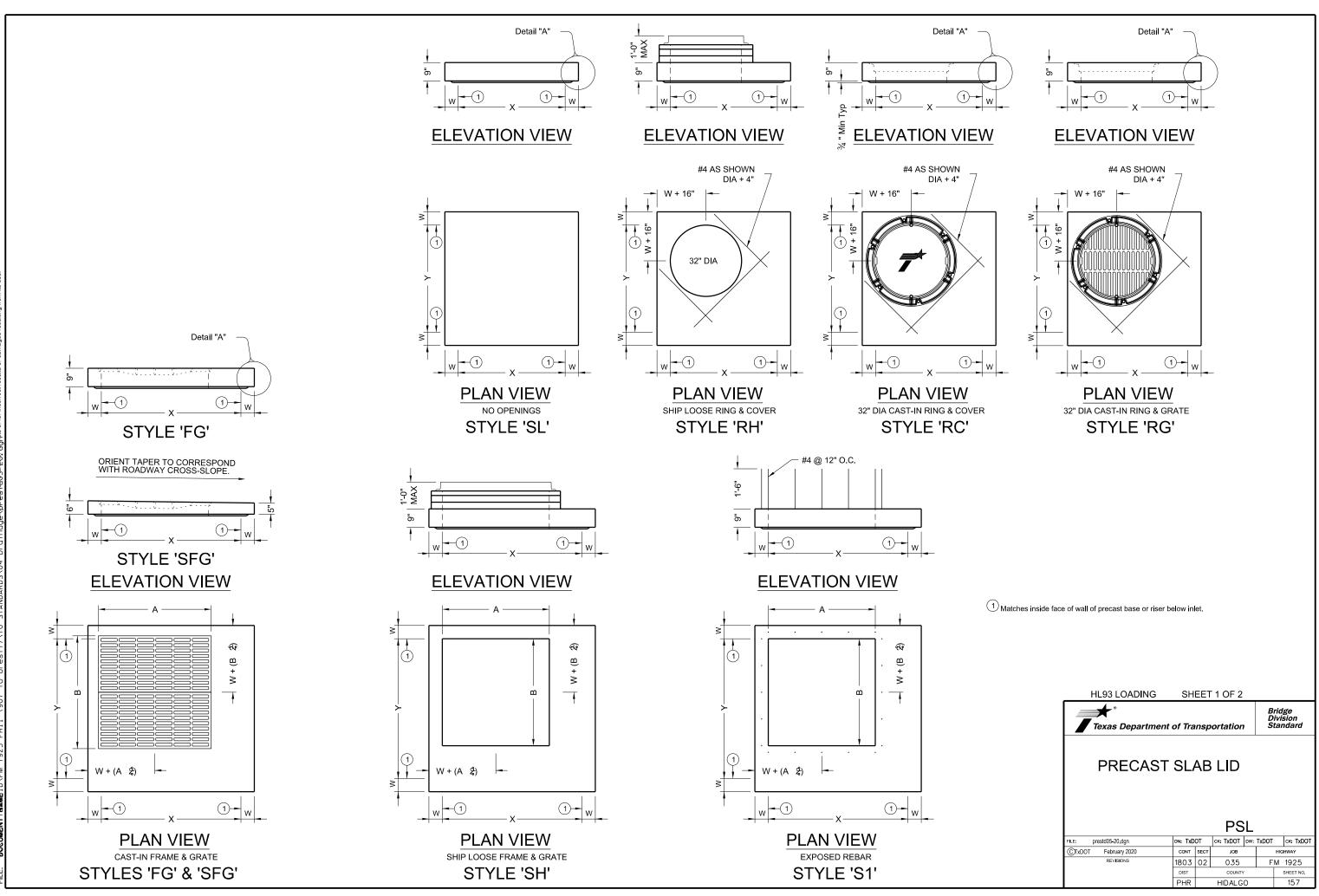
# THROAT PLAN VIEW

(Showning left and right extensions)

Size (Y)	N	MH Dia*	Ra
3'	9"	18"	(4) #5 Additional
4'	16"	32"	(4) #5 Additional
5'	16"	32"	(4) #5 Additional
6'	16"	32"	(4) #5 Additional

\*Nominal ring and cover size.

HS20 LOADING	SH	IEE	Т2(	EET 2 OF 2							
Texas Department	,	Bridge Division Standard									
	PRECAST CURB INLET OUTSIDE ROADWAY										
FLE: CD-PCO-23.dgn	DN: TXD		CO	DW-	TxDOT	ск: ТхDOT					
C)TxDOT February 2020	CONT	SECT	JOB			HIGHWAY					
REVISIONS	1803	02	2 035		FM 1925						
06-2023. Added reference point	DIST		COUNTY			SHEET NO.					
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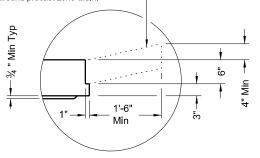


No warranty of any sibility for the conve JISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". cind is made by TXDOT for any purpose whatscever. TXDOT assumes no respor ແກ້ ເຊັ່ນເຊັ່ງຊ່ອງເອີ້ງຜູ້ ຜູ້ຫຼືກຳຊັ່ງ or for incorrect results or damages resulting from DORTE172002 1:36:21 PM DOCOMENT:NAMBIDNFM 193

Style	Size (X x Y)	w 2	A x B (nominal)	Short Span Reinf Steel Area	Long Span Reinf Steel Area
		-	. ,		
SL	3'x3'	6"	n/a	0.37 in □/ft	0.37 in⊡/ft
RH,RC,RG,SH,S1,FG	3'x3'	6"	3'x3' or 32" Dia	0.37 in □/ft	0.37 in □/ft
SFG	3'x3'	6"	3'x3'	0.32 in □/ft	0.32 in ./ft
SL	4'x4'	6"	n/a	0.34 in □/ft	0.34 in □/ft
RH,RC,RG,SH,S1,FG	4'x4'	6"	3'x3' or 32" Dia	0.41 in □/ft	0.41 in ⊡/ft
SH,S1,FG	4'x4'	6"	4'x4'	0.41 in □/ft	0.41 in ⊡/ft
SFG	4'x4'	6"	4'x4'	0.32 in □/ft	0.32 in □/ft
SL	3'x5'	6"	n/a	0.39 in □/ft	0.39 in □/ft
RH,RC,RG,SH,S1,FG	3'x5'	6"	3'x3' or 32" Dia	0.48 in ⊟/ft	0.48 in ./ft
SH,S1,FG	3'x5'	6"	3'x5'	0.48 in ⊟/ft	0.48 in⊡/ft
SFG	3'x5'	6"	3'x5'	0.32 in ⊟/ft	0.32 in ⊡/ft
SL	4'x5'	6"	n/a	0.42 in □/ft	0.42 in □/ft
RH,RC,RG,SH,S1,FG	4'x5'	6"	3'x3' or 32" Dia	0.42 in □/ft	0.42 in □/ft
SH,S1,FG	4'x5'	6"	4'x4'	0.63 in □/ft	0.63 in □/ft
SH,S1,FG	4'x5'	6"	3'x5'	0.66 in □/ft	0.66 in □/ft
SL	5'x5'	6"	n/a	0.36 in □/ft	0.36 in □/ft
RH,RC,RG,SH,S1,FG	5'x5'	6"	3'x3' or 32" Dia	0.43 in □/ft	0.43 in □/ft
SH,S1,FG	5'x5'	6"	4'x4'	0.63 in □/ft	0.63 in □/ft
SH,S1,FG	5'x5'	6"	3'x5'	0.63 in □/ft	0.63 in □/ft
SL	5'x6'	6"/8"	n/a	0.48 in □/ft	0.48 in □/ft
RH,RC,RG,SH,S1,FG	5'x6'	6"/8"	3'x3' or 32" Dia	0.48 in □/ft	0.48 in □/ft
SH,S1,FG	5'x6'	6"/8"	4'x4'	0.60 in □/ft	0.60 in □/ft
SH,S1,FG	5'x6'	6"/8"	3'x5'	0.60 in □/ft	0.60 in □/ft
SL	6'x6'	6"/8"	n/a	0.43 in □/ft	0.43 in □/ft
RH,RC,RG,SH,S1,FG	6'x6'	6"/8"	3'x3' or 32" Dia	0.56 in □/ft	0.56 in □/ft
SH,S1,FG	6'x6'	6"/8"	4'x4'	0.56 in ⊡/ft	0.56 in □/ft
SH,S1,FG	6'x6'	6"/8"	3'x5'	0.59 in □/ft	0.59 in ⊡/ft
SL	8'x8'	8"/10"	n/a	0.45 in □/ft	0.45 in □/ft
RH,RC,RG,SH,S1,FG	8'x8'	8"/10"	3'x3' or 32" Dia	0.45 in □/ft	0.45 in□/ft
SH,S1,FG	8'x8'	8"/10"	4'x4'	0.45 in □/ft	0.45 in ./ft
SH,S1,FG	8'x8'	8"/10"	3'x5'	0.45 in ⊡/ft	0.45 in ⊡/ft

(2) See sheet PDD for corresponding wall thickness (W) of base unit or riser.

Construct cast-in-place reinforced concrete apron, when shown elsewhere in plans. Use Class "A" concrete. Apron is subsidiary to PSL. Apron is 1'-6" Min width around precast zone drain.



DETAIL "A"

(Reinforcing not shown for clarity) When an apron is to be cast around PSL, use detail above to create an apron ledge on all 4 sides.

DATE

FABRICATION NOTES:
1. Locate penetration (Style 'RH'), ring and cover (Style 'RC'), ring and grate (Style 'RG'),
and frame and grate (Style 'FG') in a corner. Only one penetration is allowed per
slab lid.

2. Provide Class "H" concrete in accordance with Item 421 and having a minimum

compressive strength of 5,000 psi. 3. Provide Grade 60 reinforcing steel or equivalent area of WWR. 4. Provide clear cover of ¾" to reinforcing from lower outside shoulder of slab for structural reinforcement, and 2" from top of slab for shrinkage and temperature reinforcement. Place short span reinforcing closest to surface.5. Slabs with a thickness of 8" or greater require shrinkage and temperature

reinforcing. Provide steel area = 0.11 in²/ft each way.

 No substitution is allowed for diagonal #4 bars around openings.
 Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is 3/4".

8. Provide lifting devices in conformance with Manufacturer's recommendations.

### INSTALLATION NOTES:

1. Precast slab lids are intended for direct traffic and may be placed in roadway.

 Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or ½ the joint depth, whichever is greater.

Do not grout rubber gasket joints without Manufacturer's recommendation.
 Initial installation of grade adjustment rings for Styles 'RH' and 'SH' is limited to 1'-0" Max as shown.

5. Grade adjustment rings for Styles 'RH' and 'SH' may be increased to 2'-0" Max when future construction affects final grade of structure. Make adjustments greater than 2'-0" with additional risers. Adjustments can be made up to Max depth shown on sheet PDD. Structure must be evaluated if Max depth will be

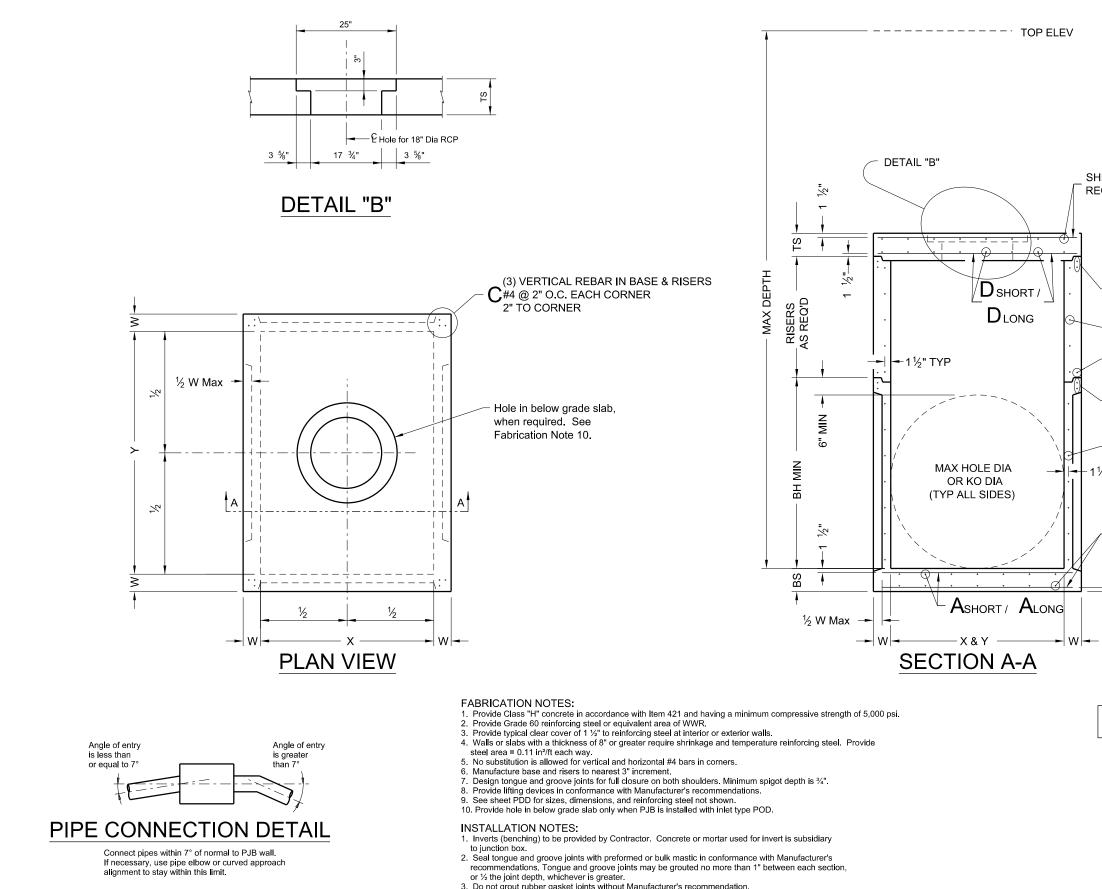
exceeded.6. Orient long dimension of grate slots perpendicular to traffic, unless noted otherwise on plans

### GENERAL NOTES:

 Designed according to ASTM C913.
 Payment for lid is per Item 465, "Junction Boxes, Manholes, and Inlets" by type, style, size, and opening size (when applicable).

Cover dimensions are clear dimensions, unless noted otherwise.

HL93 LOADING	SHI	EET	2 OF 2					
Texas Department	of Tra	nsp	ortation	,	D		ge Sion Idard	
PRECAST	SL	٩B	LID	L				
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	DIST	COUNTY				SHEET NO.		
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- Do not grout rubber gasket joints without Manufacturer's recommendation.
   For rigid pipe, cut hole in thin wall panel (KO) 4" Max, 2" Min larger than pipe OD.
   For flexible pipe, consult boot/seal Manufacturer's specification for placement tolerance
- and hole size. Center pipe in hole and install boot/seal per Manufacturer's specification.

### GENERAL NOTES:

- 1. Precast Junction Box consists of base slab, base unit, risers (as required), and below grade slab. Protects (data required), and below grade static sets (data required), and below grade static sets

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any rund is made by TXDOT for any purpose whatsoever. TXDOT assumes no responsibility for the conve stylely etaiptedrog- gropr degrapts or for incorrect results or damages resulting from its use. PN N 0 D&7.61.7.24423 1:36:22 Docoment:nameID\FM

DATE:

### SHRINKAGE/TEMPERATURE WHEN **REQUIRED. SEE FABRICATION NOTE 4.**

	(2) ADDITIONAL REBAR — #4 @ 2" O.C. EACH WALL 1" TO JOINT	
_	-BSHORT/ BLONG	
/	ADDITIONAL REBAR #4 EACH WALL 1" TO JOINT	
	(2) ADDITIONAL REBAR — #4 @ 2" O.C. EACH WALL 1" TO JOINT	
_	-BSHORT/ BLONG	
-1	½" ТҮР	
	SHRINKAGE/TEMPERATURE WHEN REQUIRED. SEE FABRICATION NOTE 4.	
	Cover dimensions are clear dimensions, unless noted otherwise.	

HL93 LOADING										
Texas Department of Transportation										
PRECAST JUNCTION BOX										
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					MAX DE	EPTH = 15 ft.	to top of BAS	SE SLAB							MAX DI	EPTH = 25 ft.	to top of BAS	SE SLAB						
			Base Slab			Base Unit or Riser Walls	·		Below Grade Reducing S				Base Slab			Base Unit or Riser Walls			Below Grade Reducing S	Slab (w/PJB) Slab (w/PB)		3)	1 2)	5)
	Size	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Reduced Riser Size	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Reduced Riser Size	Short Span Reinf Steel Area	Long Span Reinf Steel Area	Thickness	Min Height (See Gen Note	Max HOLE DIA (See Fab Note	Max KO DIA (See Fab Note
	ХхҮ	Ashort	Along	BS	Bshort	Blong	w	RWSxRWL or ID	Dshort	Dlong	TS	Ashort	Along	BS	Bshort	Blong	w	RWSxRWL or ID	Dshort	Dlong	TS	BH MIN	HOLE DIA	KODIA
	ft.	in²/ft	in²/ft	in.	in²/ft	in²/ft	in.	ft. **	in²/ft	in²/ft	in.	in²/ft	in²/ft	in.	in²/ft	in²/ft	in.	ft. **	in²/ft	in²/ft	in.	ft.	in.	in.
<u> </u>	3x3	0.23	0.23	6	0.19	0.19	6	N/A	0.37	0.37	9	0.29	0.29	6	0.24	0.24	6	N/A	0.37	0.37	9	3.5	36	36
(BLG)	4x4	0.29	0.29	6	0.24	0.24	6	N/A	0.41	0.41	9	0.47	0.47	6	0.38	0.38	6	N/A	0.41	0.41	9	4.5	48	48
ğ	3x5	0.29	0.18	6	0.19	0.35	6	N/A	0.48	0.48	9	0.39	0.18	6	0.23	0.59	6	N/A	0.48	0.48	9	3.5	36/60	36/60
ш с	4x5	0.36	0.18	6	0.22	0.34	6	N/A	0.42	0.42	9	0.53	0.26	6	0.39	0.59	6	N/A	0.42	0.42	9	4.5	48/60	48/60
nctio	5x5	0.36	0.36	6	0.34	0.34	6	N/A	0.43	0.43	9	0.62	0.62	6	0.59	0.59	6	N/A	0.43	0.43	9	5.5	60	60
nL 1	5x6	0.27	0.27	9	0.34	0.45	6	N/A	0.48	0.48	9	0.47	0.45	9	0.38	0.54	8	N/A	0.48	0.48	9	5.5	60/72	60/72
ecast	6x6	0.27	0.27	9	0.45	0.45	6	N/A	0.56	0.56	9	0.52	0.52	9	0.54	0.54	8	N/A	0.56	0.56	9	6.5	72	72
Pre	8x8	0.46	0.46	9	0.51	0.51	8	N/A	0.45	0.45	12	0.87	0.87	9	0.59	0.59	10	N/A	0.45	0.45	12	8.5	96	72
	3x3	0.23	0.23	6	0.19	0.19	6	N/A	N/A	N/A	N/A	0.29	0.29	6	0.24	0.24	6	N/A	N/A	N/A	N/A	3.5	36	36
ts use	4x4	0.29	0.29	6	0.24	0.24	6	N/A	N/A	N/A	N/A	0.47	0.47	6	0.38	0.38	6	N/A	N/A	N/A	N/A	4.5	48	48
mo	3x5	0.29	0.18	6	0.19	0.35	6	3x3	0.30	0.34	9	0.39	0.18	6	0.23	0.59	6	3x3	0.40	0.40	9	3.5	36/60	36/60
ting	4x5	0.36	0.18	6	0.22	0.34	6	3x3	0.30	0.30	9	0.53	0.26	6	0.39	0.59	6	3x3	0.46	0.37	9	4.5	48/60	48/60
resu	4x5	0.36	0.18	6	0.22	0.34	6	4x4	0.30	0.30	9	0.53	0.26	6	0.39	0.59	6	4x4	0.39	0.39	9	4.5	48/60	48/60
lages	4x5	0.36	0.18	6	0.22	0.34	6	48"	0.39	0.39	9	0.53	0.26	6	0.39	0.59	6	48"	0.47	0.47	9	4.5	48/60	48/60
	4x5	0.36	0.18	6	0.22	0.34	6	3x5	0.33	0.40	9	0.53	0.26	6	0.39	0.59	6	3x5	0.48	0.48	9	4.5	48/60	48/60
	5x5	0.36	0.36	6	0.34	0.34	6	3x3	0.34	0.34	9	0.62	0.62	6	0.59	0.59	6	3x3	0.53	0.53	9	5.5	60	60
CT res	5x5	0.36	0.36	6	0.34	0.34	6	4x4	0.36	0.36	9	0.62	0.62	6	0.59	0.59	6	4x4	0.64	0.64	9	5.5	60	60
(PB)	5x5	0.38	0.38	6	0.34	0.34	6	48"	0.36	0.36	9	0.62	0.62	6	0.59	0.59	6	48"	0.64	0.64	9	5.5	60	60
se (l	5x5	0.36	0.36	6	0.34	0.34	6	3x5	0.34	0.40	9	0.62	0.62	6	0.59	0.59	6	3x5	0.53	0.53	9	5.5	60	60
Bas	5x6	0.31	0.31	9	0.34	0.45	6	3x3	0.34	0.34	9	0.47	0.45	9	0.38	0.54	8	3x3	0.61	0.50	9	5.5	60/72	60/72
tergin cast	5x6	0.27	0.27	9	0.34	0.45	6	4x4	0.36	0.45	9	0.47	0.45	9	0.38	0.54	8	4x4	0.74	0.57	9	5.5	60/72	60/72
Pre	5x6	0.29	0.29	9	0.34	0.45	6	48"	0.36	0.45	9	0.47	0.45	9	0.38	0.54	8	48"	0.74	0.57	9	5.5	60/72	60/72
d D D	5x6	0.29	0.29	9	0.34	0.45	6	3x5	0.45	0.45	9	0.47	0.45	9	0.38	0.54	8	3x5	0.61	0.61	9	5.5	60/72	60/72
Bore	6x6	0.29	0.29	9	0.45	0.45	6	3x3	0.41	0.41	9	0.52	0.52	9	0.54	0.54	8	3x3	0.74	0.74	9	6.5	72	72
ମୁକ କଣ୍	6x6	0.27	0.27	9	0.45	0.45	6	4x4	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	4x4	0.87	0.87	9	6.5	72	72
gev( <del>b</del> e	6x6	0.29	0.29	9	0.45	0.45	6	48"	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	48"	0.87	0.87	9	6.5	72	72
ŭ	6x6	0.29	0.29	9	0.45	0.45	6	3x5	0.45	0.45	9	0.52	0.52	9	0.54	0.54	8	3x5	0.87	0.87	9	6.5	72	72
pul	8x8	0.52	0.52	9	0.51	0.51	8	3x3	0.61	0.61	12	0.91	0.91	9	0.70	0.70	10	3x3	0.85	0.85	12	8.5	96	72
1 [	8x8	0.52	0.52	9	0.51	0.51	8	4x4	0.70	0.70	12	0.87	0.87	9	0.70	0.70	10	4x4	1.01	1.01	12	8.5	96	72
)SS/(	8x8	0.52	0.52	9	0.51	0.51	8	48"	0.70	0.70	12	0.87	0.87	9	0.70	0.70	10	48"	1.01	1.01	12	8.5	96	72
NDARD	8x8	0.52	0.52	9	0.51	0.51	8	3x5	0.70	0.85	12	0.87	0.87	9	0.70	0.70	10	3x5	1.01	1.01	12	8.5	96	72

\*\* Unless otherwise indicated.

FABRICATION NOTES: 1. Maximum spacing of reinforcement is 8". 2. At manufacturer's option, provide cast or cored holes or thin wall panels (KO) to the maximum diameter shown for each. When no penetration is required, it is acceptable to provide a wall with no sectional reduction.

GENERAL NOTES:

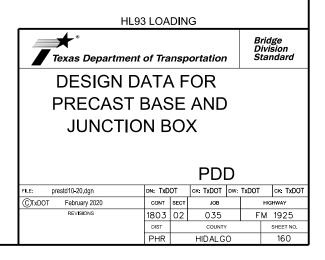
- Precast Junction Box consists of base slab, base unit, risers (as required), and below grade slab. See sheet PJB for details.
   Precast Base consists of base slab, base unit, risers (as required), reducing slab (as
- Precast base consists of base stab, base unit, insers (as required), required) and reducing stab (as required), and reducing stab (as required). See sheet PB for details.
   Min Height shown is for stock base units. Use stock base units whenever practical. Smaller height base units can be used in special installation circumstances, when noted elsewhere in the plans. Absolute minimum height of base units is 2'-6".

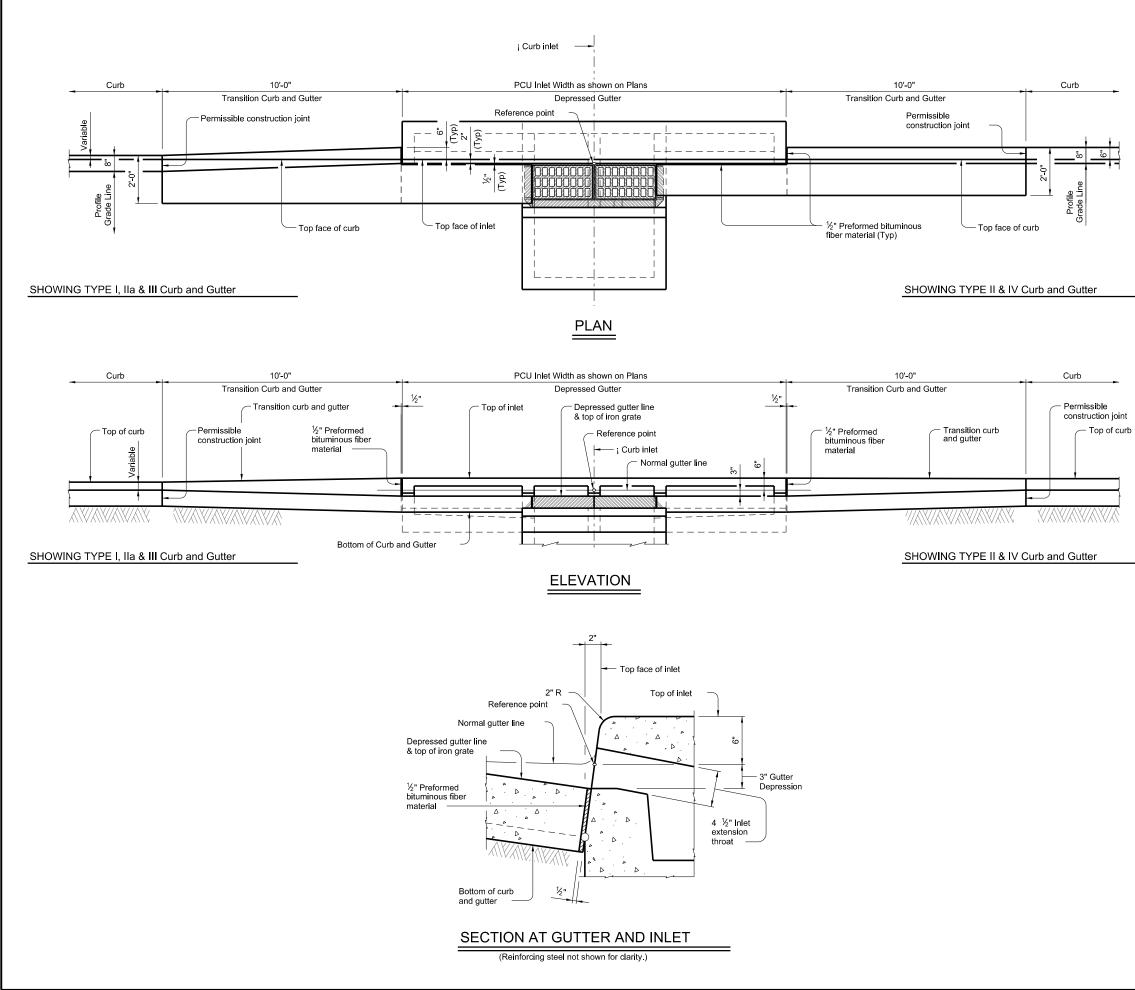
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any tind is made by TXDOT for any purpose whatsoever. TXDOT assumes no responsibility for the conve-tor this standard/to offing fearmers or for incorrect results or damages resulting from its use.

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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 whe TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:

CONSTRUCTION NOTES: Align top face of curb with PCU Inlet as shown.

MATERIAL NOTES: Provide <sup>1</sup>/<sub>2</sub>" Preformed Bituminous Fiber Material.

### GENERAL NOTES:

Reference point is located where the i of the main throat intersects the normal gutter line. See Precast Curb Inlet Under Roadway standard

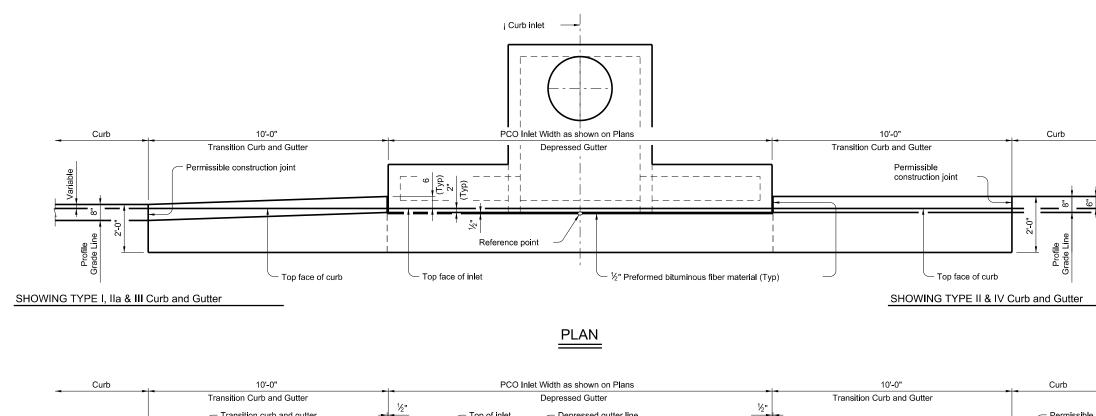
PCU for details and notes not shown. See Concrete Curb and Curb and Gutter standard

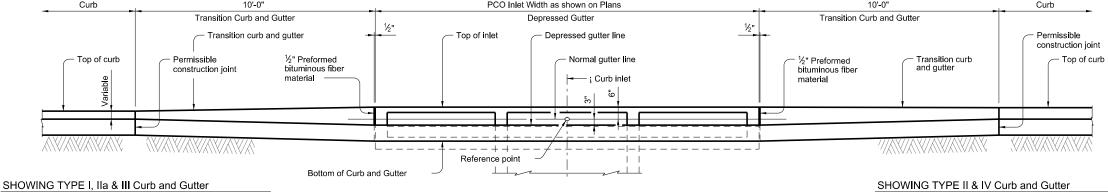
CCCG-22 for details and notes not shown. Curb and Gutter Transitions is paid for and in accordance with Item 529, "Concrete Curb, Gutter, and

Combined Curb and Gutter.'

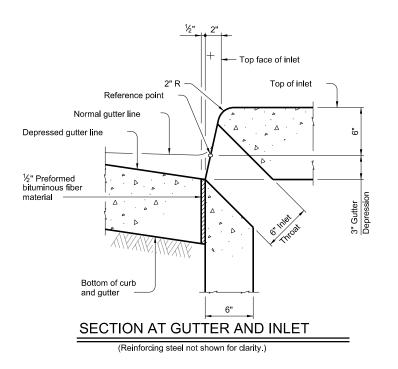
Preformed Bituminous Fiber Material is subsidiary to PCU Inlet.

<b>T</b> exas Department of Transportation											
CURB AND GUTTER											
TRANSITION DETAILS											
FOR PCU INLET											
FURP		IIN									
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06-2023 Added reference point	DIST COUNTY				SHEET NO.						
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ELEVATION



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CONSTRUCTION NOTES: Align top face of curb with PCO Inlet as shown.

MATERIAL NOTES: Provide <sup>1</sup>/<sub>2</sub>" preformed bituminous fiber material.

GENERAL NOTES: Reference point is located where the ; of the main throat intersects the normal gutter line. See Precast Curb Inlet Outside Roadway (PCO)

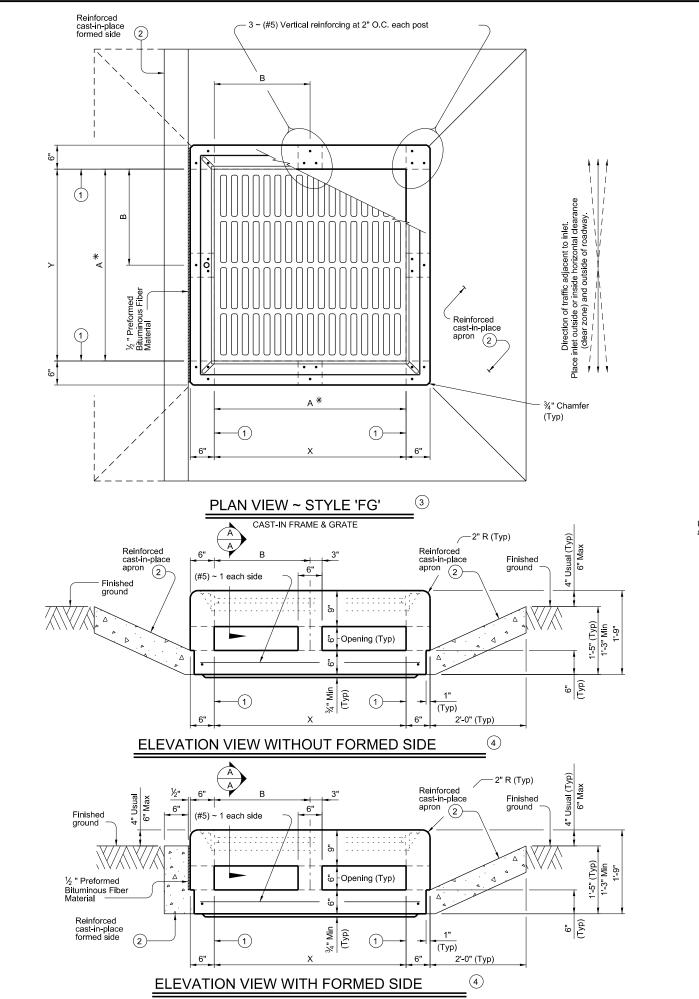
standard for details and notes not shown. See Concrete Curb and Curb and Gutter (CCCG-22)

standard for details and notes not shown.

Curb and Gutter Transitions is paid for and in accordance with Item 529, "Concrete Curb, Gutter, and Combined Curb and Gutter."

Preformed bituminous fiber material is subsidiary to PCO Inlet.

Bridge Division Texas Department of Transportation									
CURB AND GUTTER									
TRANSITION DETAILS									
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		С	GT-PC	CO					
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06-2023; Added reference point.	DIST		COUNTY		SHEET NO.				
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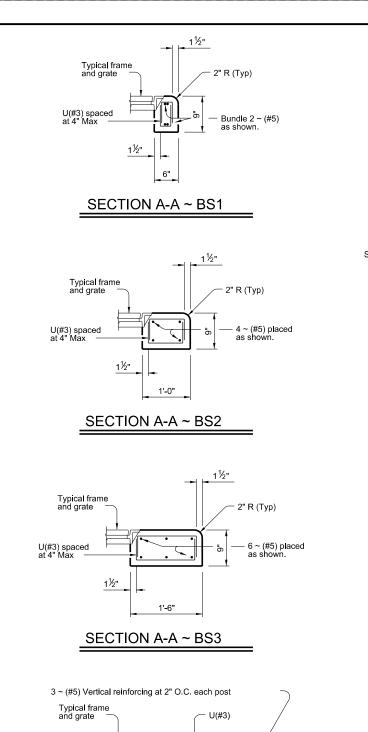


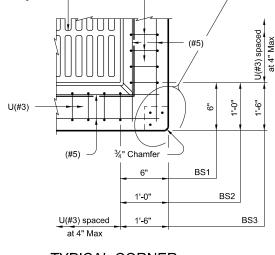
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CLAMRER: The use of this bandard is governed by the "Texas Engineering Practice Act". It is made by TXDOT for any purpose whatseever. TXDOT assumes no respon it is maderaptic other frequences or for incorrect results or damages resulting from

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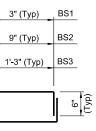




**TYPICAL CORNER REINFORCING PLAN DETAIL** 

Showing BS2 other beam sections similar

Style	Size (X x Y)	AxA *	BxB	Beam Section
FG	3'x3'	3'x3'	1.5'x1.5'	BS1
FG	4'x4'	3'x3'	2'x2'	BS2
FG	4'x4'	4'x4'	2'x2'	BS1
FG	5'x5'	3'x3'	2.5'x2.5'	BS3
FG	5'x5'	4'x4'	2.5'x2.5'	BS2



BARS U (#3) Showing one complete bar.

1 Matches inside face of wall of precast base or riser below inlet.

- Construct cast-in-place reinforced concrete with or without formed side. Place formed side/sides as directed elsewhere in the plans. Formed sides may only be used on sides parallel to traffic. Use Class "C" concrete. Apron and formed side reinforcing not shown for clarity. Apron and formed side are subsidiary to PAZD-CZ. Apron is 2'-0" width around precast zone drain, unless an optional formed side is used. For apron and formed side, provide (#4) reinforcing at 12" O.C.
- 3 Top slab reinforcing not shown for clarity.
- 4 Top slab reinforcing and post reinforcing not shown for clarity.

### FABRICATION NOTES:

- 1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
- Provide Grade 60 reinforcing steel or equivalent area of WWR.
   Provide clear cover of <sup>3</sup>/<sub>4</sub>" to reinforcing from bottom of slab and 2" to reinforcing from top of slab for structural reinforcement.
- 4. Provide 1  $\frac{1}{2}$  end cover on (#5) reinforcing.
- 5. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is 3/4".
- 6. Provide lifting devices in conformance with Manufacturer's recommendations.
- INSTALLATION NOTES:
- 1. Precast Area Zone Drain within Clear Zone (PAZD-CZ) is for use in ditches and medians outside and inside of the horizontal clearance (clear zone). PAZD-CZ is never placed in the roadway.
- 2. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendations. Tongue and groove joints may be grouted no more than 1" between each section, or 1/2 the joint depth, whichever is greater.
- 3. Do not grout rubber gasket joints without Manufacturer's recommendation.

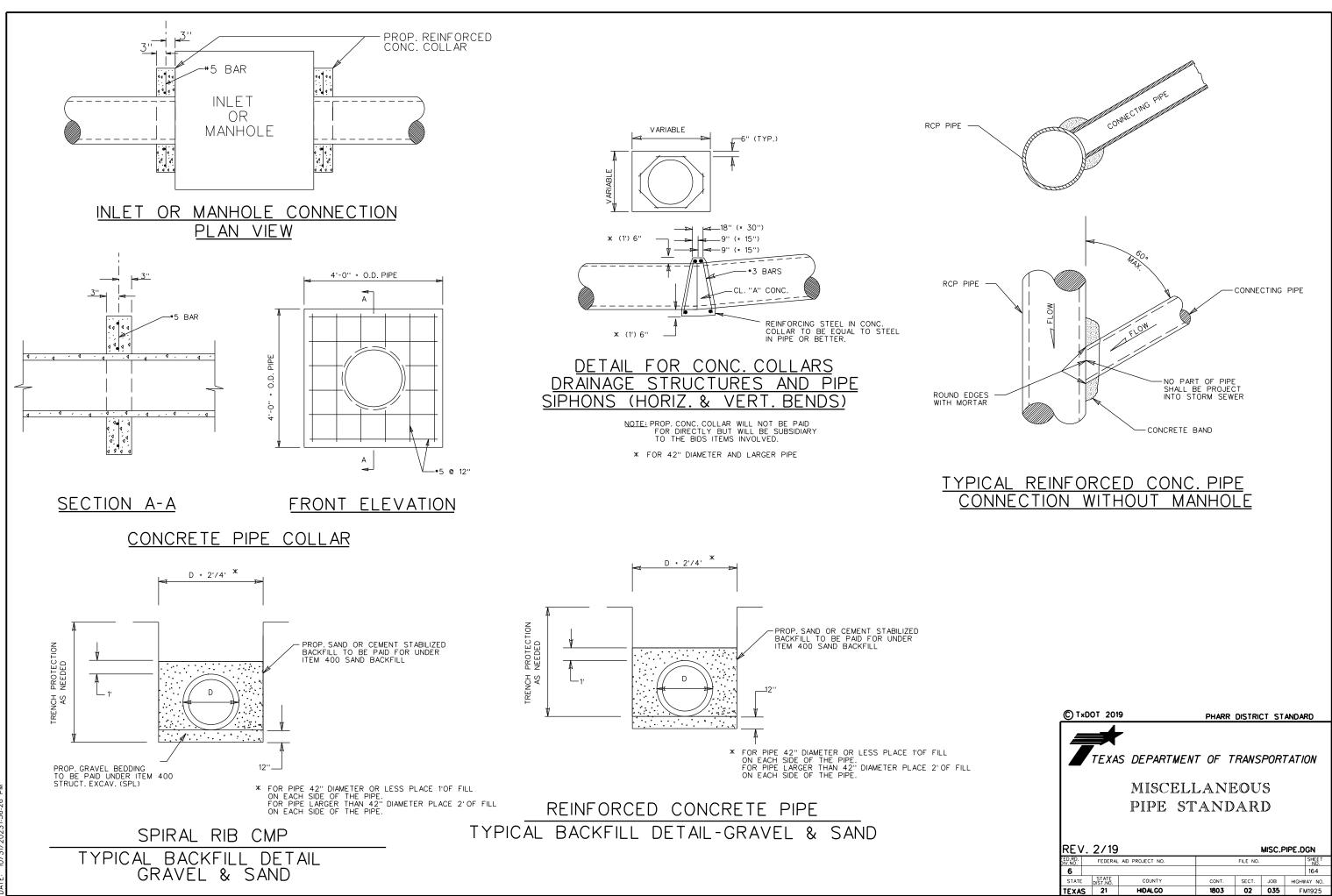
### **GENERAL NOTES:**

- 1. Designed according to ASTM C913.
- 2. Payment for inlet is per Item 465, "Junction Boxes, Manholes, and Inlets" by type, style, size, and opening size (when applicable).

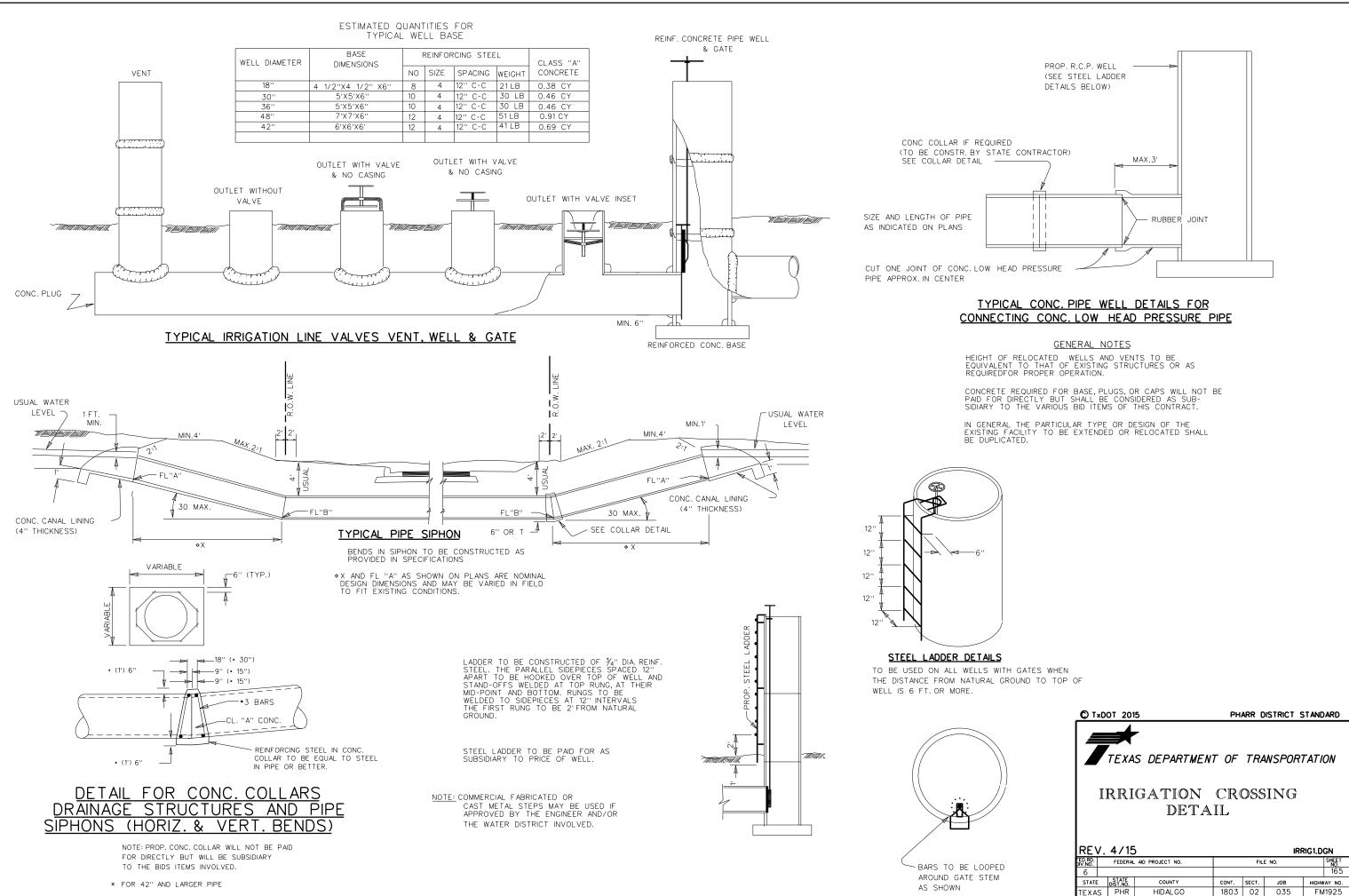
Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.

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Texas Department	of Tra	nsp	ortation	D	ridge ivision tandard
PRECAST	<sup>-</sup> Af	RE	A		
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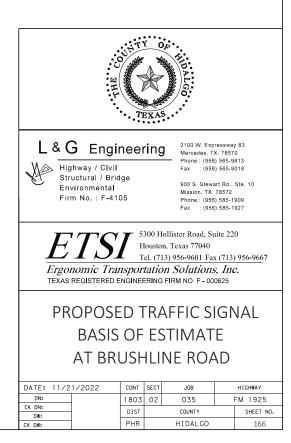
\* Nominal frame/grate size.

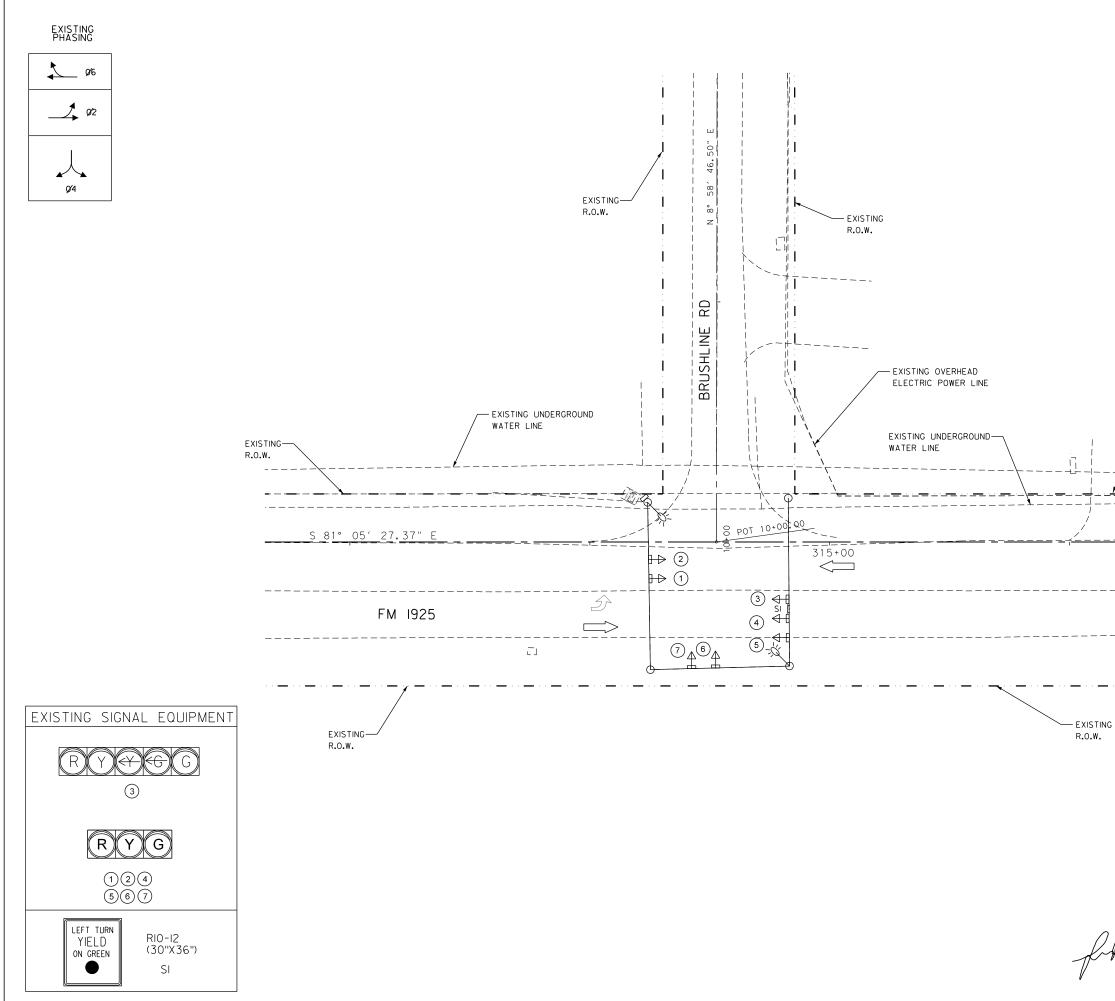


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		FM 1925 TRAFFIC SIGNAL QU		TIES	
TEM	DESCR CODE	DESCRIPTION	UNIT	TRAFFIC SIGNAL BRUSHLINE RD	TOTAL
416*	6030*	DRILL SHAFT (TRF SIG POLE) (24 IN)	LF	5.7	5.7
16	6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	60.8	60.8
6 18	6016	CONDT (PVC) (SCH40) (1")	LF	65	65.0
618	6023	CONDT (PVC) (SCH40) (2")	LF	935	935.0
518	6024	CONDT (PVC) (SCH40) (2") (BORE)	LF	130	130.0
18	6029	CONDT (PVC) (SCH40) (3")	LF	75	75.0
18	6033	CONDT (PVC) (SCH40) (4")	LF	60	60.0
18	6034	CONDT (PVC) (SCH40) (4") (BORE)	LF	145	145.0
20	6007	ELEC CONDR (NO.8) BARE	LF	285	285.0
20	6009	ELEC CONDR (NO.6) BARE	LF	55	55.0
20	6010	ELEC CONDR (NO.6) INSULATED	LF	110	110.0
21	6005	TRAY CABLE (4 CONDR) (12 AWG)	LF	335	335.0
24	6002	GROUND BOX TY A (122311)W/APRON	EA	8	8.0
24	6008	GROUND BOX TY C (162911)W/APRON	EA	3	3.0
25	6003	ZINC-COAT STL WIRE STRAND (3/8")	LF	1100	1,100.0
28	6 119	ELC SRV TY D 120/240 060(NS)AL(T)TS(O)	EA	1	1.0
80	6002	INSTALL HWY TRF SIG (ISOLATED)**	EA	1	1.0
	*	TRAFFIC SIGNAL CONTROLLER IN M ODEL TS TYPE 2 CAB INET	EA	1	1.0
	*	CONTROLLER FOUNDATION	EA	1	1.0
	*	ROD, 5/8" X 10' COPPER-CLAD STEEL GROUND (CONTROLLER ONLY)	EA	1	1.0
	*	SIGN, PEDESTRIAN PUSHBUTTON (SYMBOL TYPE)	EA	4	4.0
	*	(9"X 15") (R 10-3eR(L)) LED LUM INAIRE	EA	2	2.0
	*	POWER SUPPLY	EA	1	1.0
	*	CONTROL, PHOTOELECTRIC	EA	1	1.0
	*	LOOP AM PLIFIER	EA	6	6.0
	*	ALUMINIUM SIGNS (TY A) (STREET NAME)	SF	12	12.0
	*	ALUMINIUM SIGNS (TY A) (REGULATORY)	SF	15	15.0
80	6004	REMOVING TRAFFIC SIGNALS	EA	1	1.0
81	6001	TEM P TRAF SIGNALS	EA	1	1.0
82	6001	VEH SIG SEC (12")LED(GRN)	EA	6	6.0
82	6002	VEH SIG SEC (12")LED(GRN ARW)	EA	1	1.0
82	6003	VEH SIG SEC (12")LED(YEL)	EA	6	6.0
82	6004	VEH SIG SEC (12")LED(YEL ARW)	EA	2	2.0
82	6005	VEH SIG SEC (12")LED(RED)	EA	6	6.0
82	6006	VEH SIG SEC (12")LED(RED ARW)	EA	1	1.0
82	6018	PED SIG SEC (LED)(COUNTDOWN)	EA	4	4.0
82	6054	BACKPLATE W/REF BRDR(3 SEC)(VENT)ALUM	EA	6	6.0
82	6055	BACKPLATE W/REF BRDR(4 SEC)(VENT)ALUM	EA	1	1.0
84	6008	TRF SIG CBL (TY A)(12 AWG)(3 CONDR)	LF	420	420.0
84	6010	TRF SIG CBL (TY A)(12 AWG)(5 CONDR)	LF	975	975.0
84	6012	TRF SIG CBL (TY A)(12 AWG)(7 CONDR)	LF	220	220.0
84	6027	TRF SIG CBL (TY A)(14 AWG)(1CONDR)	LF	130	130.0
84	6080	TRF SIG CBL (TY C)(14 AWG)(2 CONDR)	LF	1,665	1,665.0
86	6019	INS TRF SIG PL AM (S)STR(TY D)	EA	2	2.0
86	6020	INS TRF SIG PL AM (S)STR(TY D)LUM	EA	2	2.0
87	6001	PED POLE ASSEM BLY	EA	1	1.0
88	6001	PED DETECT PUSH BUTTON (APS)	EA	4	4.0
88	6003	PED DETECTOR CONTROLLER UNIT	EA	1	1.0
88	6004	VEH LP DETECT (SAWCUT)	LF	1,270	1,270.0
	TITIES ARE SI TEM S.	HOWN FOR CONTRACTOR'S INFORMATION ONLY. THE	SE ITEN	ISARE SUBSIDIARY TO	VARIOUS



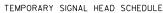


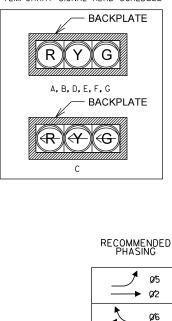
16/2022 N: \CLIENTS\L&G\FM 1925\*FM907 SHARP\ETS!\*WORK\SIGNALS\EXISTING\FM 1925 q+ BRUSHLINE.



	LEGEND
0	EXISTING SIGNAL POLE TO BE REMOVED
$\mathbf{A}$	EXISTING TRAFFIC SIGNAL HEAD
2	EXISTING GROUND MOUNTED CONTROLLER CABINET
$\Box$	DIRECTION OF TRAFFIC FLOW
-] SI	EXISTING TRAFFIC SIGN
) <u>\</u>	EXISTING LUMINAIRE ARM
	EXISTING ELECTRICAL SERVICE

- EXISTING R.O.W. SCALE I" = 40' 2100 W. Expressway 83 Mercedes, TX. 78570 Phone: (956) 565-9813 Fax : (956) 565-9018 L&G Engineering Highway / Civil Structural / Bridge Environmental 900 S. Stewart Rd., Ste. 10 Mission, TX. 78572 Phone: (956) 585-1909 Fax : (956) 585-1927 Firm No. F 4105 5300 Hollister Road, Suite 220 Houston, Texas 77040 D Tel. (713) 956-9601 Fax (713) 956-9667 Ergonomic Transportation Solutions, Inc. TEXAS REGISTERED ENGINEERING FIRM NO. F - 000625  $\bigstar$ EXISTING CONDITIONS SIMEONI DIAGRAM 60919 FM 1925 AT BRUSHLINE ROAD КĊ DATE: 11/16/2022 CONT SECT JOB HIGHWAY THE SEAL APPEARING ON THIS DN: CK DN: DW: CK DW: FM 1925 DOCUMENT WAS AUTHORIZED BY C. SIMEONIDIS, P.E. 60919 035 1803 02 DIST COUNTY SHEET NO. 11/16/2022 PHR HIDALGO 167





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I. INSTALL TEMPORARY WOOD POLES TI,T2,T3 & T4, AS SHOWN IN THE LAYOUT AND IN

FOR TRAFFIC SIGNALS (WOOD POLE) CD/TS/WP".

LOWER 2 FEET WITH CEMENT STABILIZED SAND,

COMPACTED IN LIFTS, PRIOR TO INSTALLATION

OF THE POLE. THE GRANNULAR AREA SHALL BE

BACKFILLED WITH CEMENT STABILIZED SAND IN

THOROUGHLY TAMPED FOR EACH LIFT. CEMENT

STABILIZED SAND SHALL CONFORM TO TXDOT

SPECIFICATION. DO NOT INSTALL SPAN OR GUY

2. REMOVE EXISTING SIGNAL POLES, FOUNDATONS AND SIGNAL HEADS. USE PROPOSED CONTROLLER AND ELECTRICAL SERVICE POLE DURING

WIRES ON THE SAME DAY AS THE POLE.

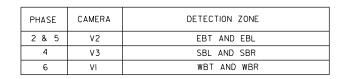
3. SET CAMERAS TO DETECTION ZONES AS

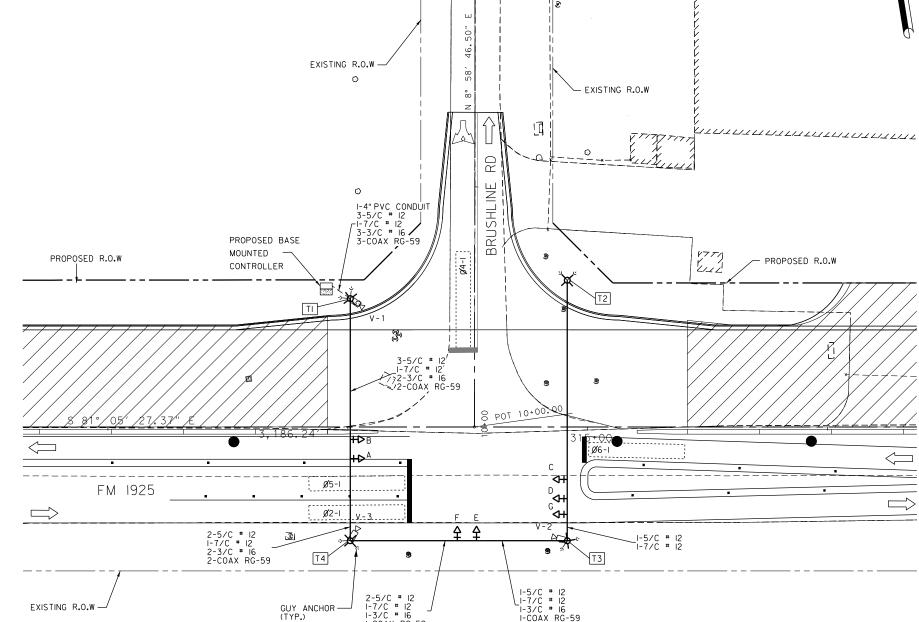
SHOWN ON THIS LAYOUT.SET CONTROLLER TO

LIFTS NOT TO EXCEED 6 INCHES AND

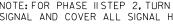
EXCAVATE INSTALLATION HOLES A MINIMUM OF 2 FEET DIAMETER BY 9 FEET DEEP AND FILL THE

ACCORDANCE WITH THE SHEET "SIGNAL DETAILS/STANDARDS CONSTRUCTION DETAILS





NOTE: FOR PHASE IISTEP 2, TURN OFF SIGNAL AND COVER ALL SIGNAL HEADS.



I-COAX RG-59

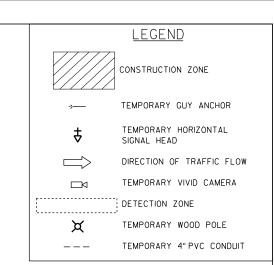
TEMPORARY OPERATION.

ADJUSTED TO FIT FIELD CONDITIONS. 4. VIVDS CAMERA(S) MOUNTED ON TEMPORARY WOOD POLES SHALL BE USED TO DETECT VEHICLES DURING THE VARIOUS PHASES/STEPS OF CONSTRUCTION.

5. SIGNAL HEAD POSITIONS MAY BE ADJUSTED TO FIT SPECIFIC TRAFFIC CONTROL PHASES.

6. THE VIVDS DETECTION SYSTEM SHALL BE REMOVED AFTER CONSTRUCTION. ALL MATERIALS AND LABOR TO INSTALL THE VIVDS SYSTEM ARE INCIDENTAL TO THE TEMPORARY SIGNAL CONSTRUCTION.

NOTES:



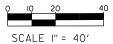
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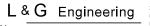
TEMPORARY TRAFFIC SIGNAL HARDWARE TO BE FURNISHED, INSTALLED & MAINTAINED BY THE CONTRACTOR DURING ALL PHASE(S) AND / OR STEPS(S) OF CONSTRUCTION

ITEM *	UNIT	QUANTITY *
VIVDS CAMERA	EA	3
COAXIAL (RG 59)	LF	430
3/C - # 16 CABLE (VIVDS POWER)	LF	430
5/C # 12 (SIGNAL HEAD)	LF	600
7/C # 12 (SIGNAL HEAD)	LF	300
TEMPORARY WOOD POLE W/ GUY WIRE	EA	4
4" PVC CONDUIT	LF	10
ZINC-COAT STL WIRE STRAND (3/16")	LF	630

\* NOT FOR BIDDING PURPOSES. FOR CONTRACTOR'S INFORMATION ONLY.







Highway / Civil Structural / Brid Structural / Bridge Environmental Firm No. : F-4105

2100 W. Expressway 83 Mercedes, TX. 78570 Phone: (956) 565-9813 Fax: (956) 565-9018

900 S. Stewart Rd., Ste. 10 Mission, TX, 78572 Phone: (956) 585-1909 Fax: (956) 585-1927





TEMPOR			-	SI	GNAL
FM 1925			E II USHLIN	ΙE	ROAD
DATE: 11/16/20	)22 CO	NT SECT	JOB		HIGHWAY
DN:	18	03 02	035		FM 1925
CK DN:	DI	ST	COUNTY		SHEET NO.

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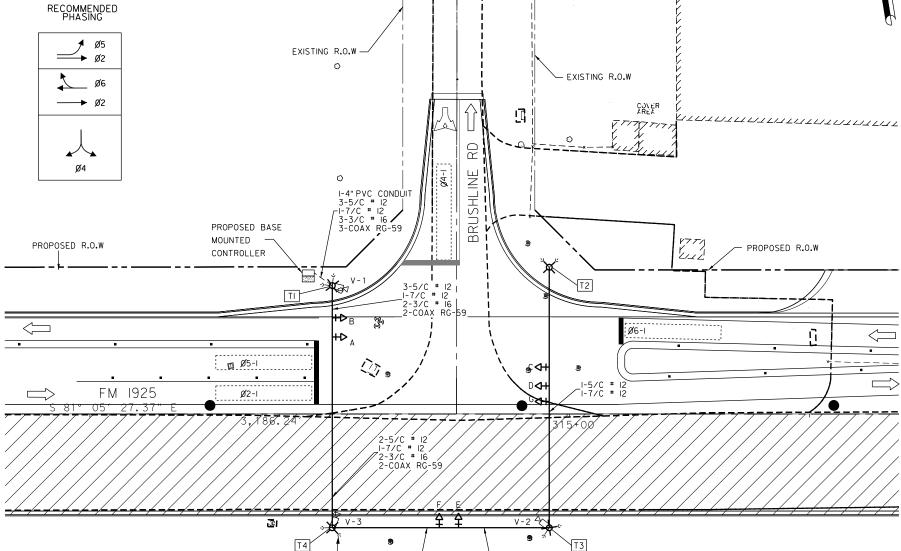
DOCUMENT WAS AUTHORIZED BY C. SIMEONIDIS, P.E. 60919 11/16/2022

DW:

CK DW:



EXISTING R.O.W -



2-5/C # 12 I-7/C # 12 I-3/C # 16

I-COAX RG-59

GUY ANCHOR-

I-5/C # I2 I-7/C # I2 I-3/C # I6

I-COAX RG-59

### NOTES:

I.INSTALL TEMPORARY WOOD POLES TI,T2,T3 & T4, AS SHOWN IN THE LAYOUT AND IN ACCORDANCE WITH THE SHEET "SIGNAL DETAILS/STANDARDS CONSTRUCTION DETAILS FOR TRAFFIC SIGNALS (WOOD POLE) CD/TS/WP". EXCAVATE INSTALLATION HOLES A MINIMUM OF 2 FEET DIAMETER BY 9 FEET DEEP AND FILL THE LOWER 2 FEET WITH CEMENT STABILIZED SAND, COMPACTED IN LIFTS, PRIOR TO INSTALLATION OF THE POLE. THE GRANNULAR AREA SHALL BE BACKFILLED WITH CEMENT STABILIZED SAND IN LIFTS NOT TO EXCEED 6 INCHES AND THOROUGHLY TAMPED FOR EACH LIFT. CEMENT STABILIZED SAND SHALL CONFORM TO TXDOT SPECIFICATION. DO NOT INSTALL SPAN OR GUY WIRES ON THE SAME DAY AS THE POLE.

BACKPLATE

′<<del>R</del>

C

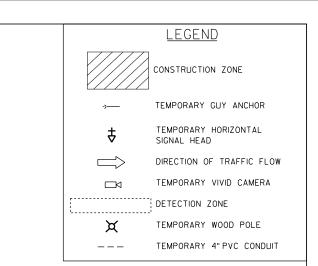
2. REMOVE EXISTING SIGNAL POLES, FOUNDATONS AND SIGNAL HEADS. USE PROPOSED CONTROLLER AND ELECTRICAL SERVICE POLE DURING TEMPORARY OPERATION.

3. SET CAMERAS TO DETECTION ZONES AS SHOWN ON THIS LAYOUT. SET CONTROLLER TO ACTUATED MODE AS SHOWN IN THE PHASING SEQUENCE. PHASING AND TIMING MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

4. VIVDS CAMERA(S) MOUNTED ON TEMPORARY WOOD POLES SHALL BE USED TO DETECT VEHICLES DURING THE VARIOUS PHASES/STEPS OF CONSTRUCTION.

5. SIGNAL HEAD POSITIONS MAY BE ADJUSTED TO FIT SPECIFIC TRAFFIC CONTROL PHASES.

6. THE VIVDS DETECTION SYSTEM SHALL BE REMOVED AFTER CONSTRUCTION. ALL MATERIALS AND LABOR TO INSTALL THE VIVDS SYSTEM ARE INCIDENTAL TO THE TEMPORARY SIGNAL CONSTRUCTION.



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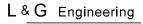
### TEMPORARY TRAFFIC SIGNAL HARDWARE TO BE FURNISHED. INSTALLED & MAINTAINED BY THE CONTRACTOR DURING ALL PHASE(S) AND / OR STEPS(S) OF CONSTRUCTION

item *	UNIT	QUANTITY *
VIVDS CAMERA	EA	3
COAXIAL (RG 59)	LF	430
3/C - # 16 CABLE (VIVDS POWER)	LF	430
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7/C # 12 (SIGNAL HEAD)	LF	300
TEMPORARY WOOD POLE W/ GUY WIRE	EA	4
ZINC-COAT STL WIRE STRAND (3/16")	LF	630
4" PVC CONDUIT	LF	10

\* NOT FOR BIDDING PURPOSES. FOR CONTRACTOR'S INFORMATION ONLY.

SCALE |" = 40'





Highway / Civil Structural / Bridg Structural / Bridge Environmental Firm No. : F-4105

2100 W. Expressway 83 Mercedes, TX. 78570 Phone: (956) 565-9813 Fax: (956) 565-9018

900 S. Stewart Rd., Ste. 10 Mission, TX, 78572 Phone: (956) 585-1909 Fax: (956) 585-1927

Houston, Texas 77040 Tel. (713) 956-9601 Fax (713) 956-9667 Ergonomic Transportation Solutions, Inc. TEXAS REGISTERED ENGINEERING FIRM NO. F - 000625

TEMPORAR		RAFFIC Se III	SIGNAL
FM 1925 AT			e road
DATE: 11/16/2022	CONT SE	CT JOB	HIGHWAY
DN:	1803 0	2 035	FM 1925
CK DN:	DIST	COUNTY	SHEET NO.

HIDALGO

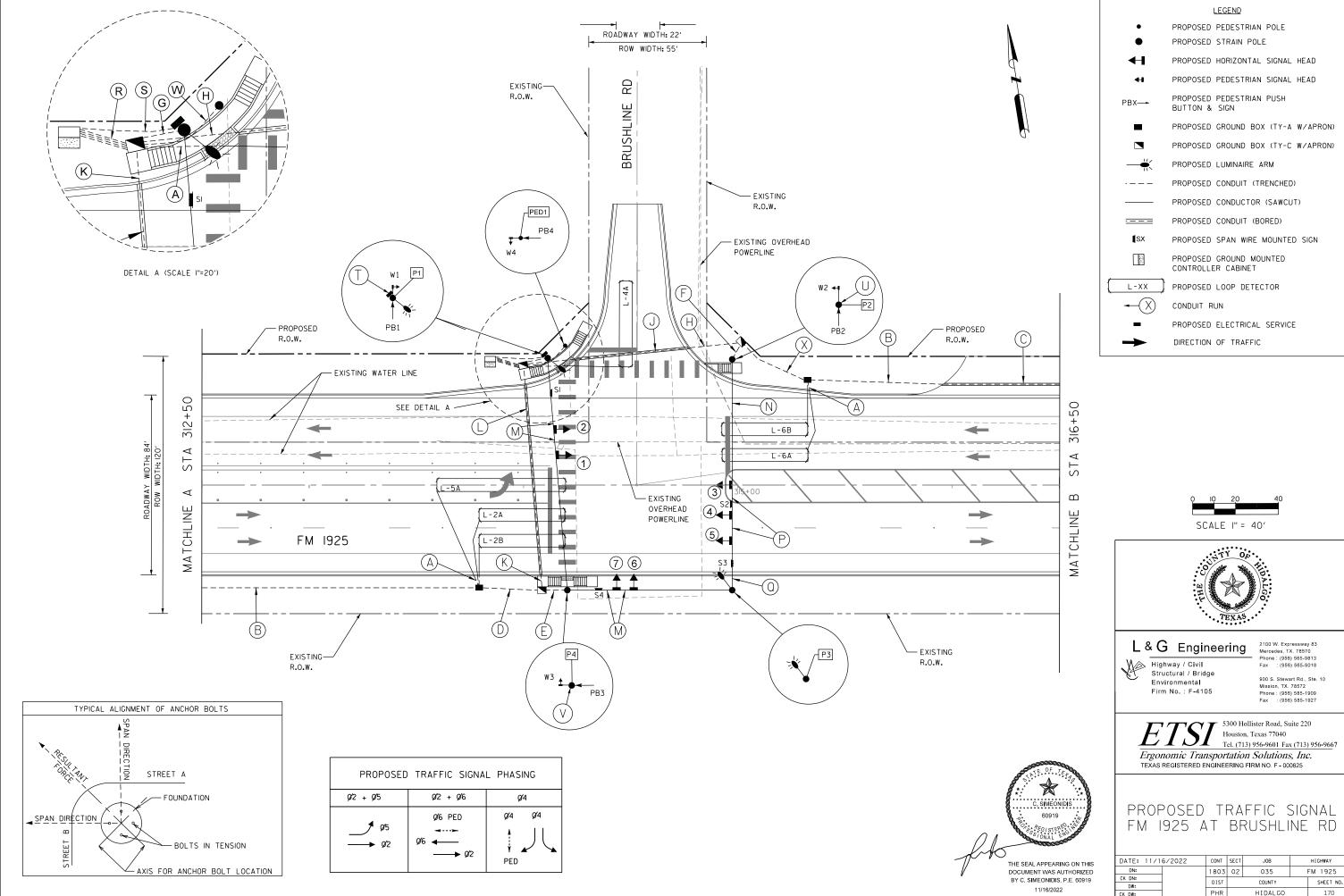
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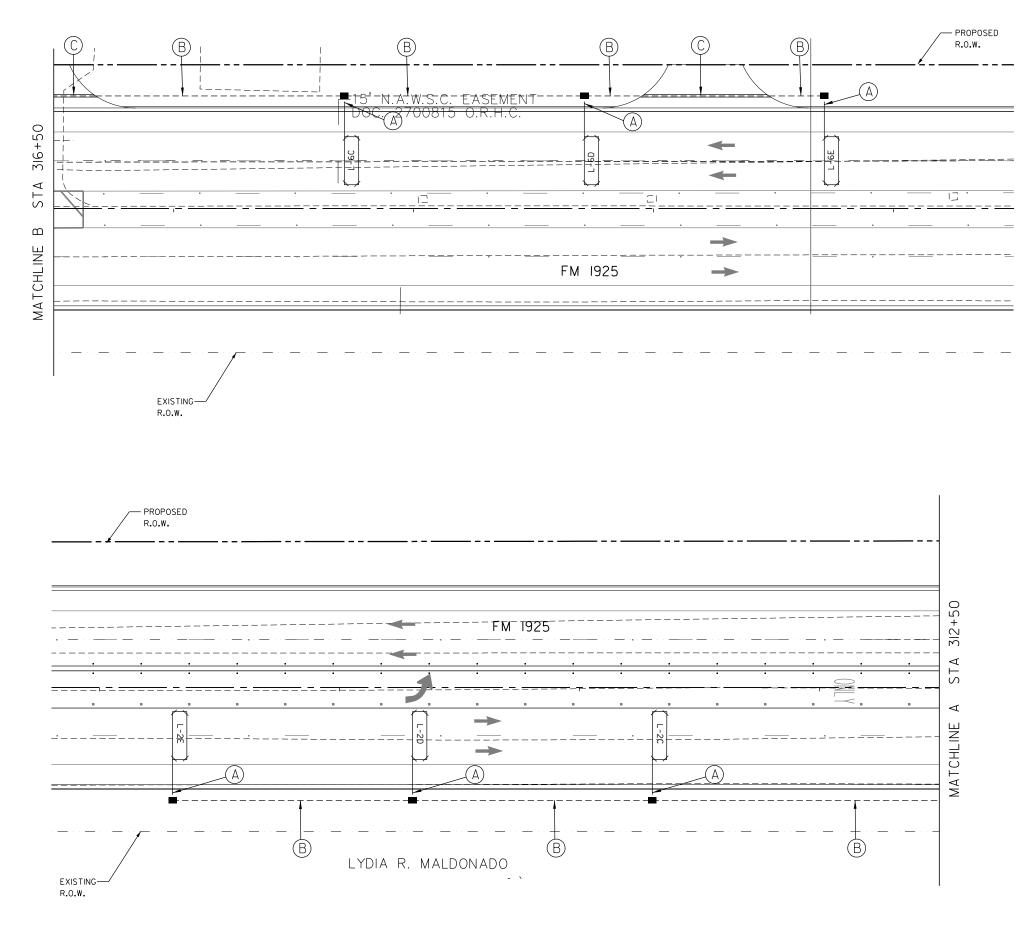


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DW:



PHR HIDALGO





A



	LEGEND
•	PROPOSED PEDESTRIAN POLE
•	PROPOSED STRAIN POLE
	PROPOSED HORIZONTAL SIGNAL HEAD
4	PROPOSED PEDESTRIAN SIGNAL HEAD
РВХ→	PROPOSED PEDESTRIAN PUSH BUTTON & SIGN
	PROPOSED GROUND BOX (TY-A W/APRON)
	PROPOSED GROUND BOX (TY-C W/APRON)
	PROPOSED LUMINAIRE ARM
·	PROPOSED CONDUIT (TRENCHED)
	PROPOSED CONDUCTOR (SAWCUT)
	PROPOSED CONDUIT (BORED)
<b>∎</b> sx	PROPOSED SPAN WIRE MOUNTED SIGN
	PROPOSED GROUND MOUNTED CONTROLLER CABINET
L-XX	PROPOSED LOOP DETECTOR
<b>→</b> (X)	CONDUIT RUN
-	PROPOSED ELECTRICAL SERVICE
$\rightarrow$	DIRECTION OF TRAFFIC







Highway / Civil Structural / Bridge Environmental Firm No. : F-4105 2100 W. Expressway 83 Mercedes, TX. 78570 Phone: (956) 565-9813 Fax : (956) 565-9018

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# PROPOSED TRAFFIC SIGNAL FM 1925 AT BRUSHLINE RD

DATE: 11/1	6/2022	CONT	SECT	JOB	HIGHWAY				
DN:		1803	02	035	FM 1925				
CK DN: DW:		DIST		COUNTY	SHEET NO.				
CK DW:		PHR		HIDALGO	171				



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY C. SIMEONIDIS, P.E. 60919 11/16/2022

					EL	EC	<b>FRIC</b>	;AL	SC	HED	DUL	.E																
ITEM	TOTAL	RUN NUMBER	А	В	С	D	Е	F	G	Н	J	K	L	М	Ν	Р	Q	R	S	Т	U	V	W	Х		LOOP	SIZE	
	QTY.	RUN LENGTH (.)	65'	785'	130	25'	15'	15'	15'	45'	55'	15'	90'	80'	60'	30'	25'	15'	25'	30'	30'	30'	20'	35'		-2A —**	€ 6′ × 40	יר
POWER	110'	1/C - # 6																	2	2						-2B -	6' × 40	
GROUND	55'	1/C - # 6 BARE																	1	1						-2C	6' × 20	
	285'	1/C - # 8 BARE					1	1	1	1	1	1	1					1					1			-2D ***	€ 6′ × 20 6′ × 20	
SIGNAL	420'	3/C # 12 (PUSH BUTTON)					1	1	1	1	1	1	1					4		1	1	1	1			-4A	6' × 40	
WIRE SIZE	335'	4/C # 12 (TRAY CABLE)						1	1	1	1				1	1	1			2	1					5A -6A — **	6′ × 60 ∉ 6′ × 40	
TYPE	975'	5/C # 12					2	2	2	2	2	2	2	1	1	1		7		2	2	2	1			-6B	6' × 40	
	220'	7/C # 12						1		1	1				1			1			1					6C -6D	6' × 20	
LOOP	130'	1/C # 14 LOOP WIRE	2		<u> </u>																					-6D **	€ 6′ × 20 6′ × 20	
	1665'	2/C#14 (SHIELDED)		1	1	3				2	2	3	3					6						2		TOTAL	1	
	65'	1" PVC	1																								IN SERIES	
	935'	2" PVC		1		1	1	1	1										1				1	1			ON BRUSHL ON FM 1925	
CONDUIT	60'	4" PVC								1		1													N	IOTES:		
	130'	2" PVC (BORE)			1		<u> </u>					<u> </u>						_	<u> </u>								ATION SHOW	NF
	75'	3" PVC			_		<u> </u>					<u> </u>						5	<u> </u>	<u> </u>	<u> </u>	<u> </u>			DE	ETECTORS	5,CONDUIT F CATION WILL	run Bi
	145'	4" PVC (BORE)				_					1		1														ION WITH TH	_
		AERIAL												*	*	*	*								2	C LOOP	NAL CABLE LEAD-IN C	AB
	IN	SIDE POLE																		*	*	*					HALL BE #14 NTRACTOR S	
																											STRIAN SIGN	
Elec.	Sheet	Electrical Service Description	Service		Servic	е	Safe	ty		/lain	Г	Гwo-Po	le	Pane	lbd/		ircuit		Brar	nch	Br	anch	Í	KVA			NAL HEADS	
Service	No.	(see ED (5) & (6) - 14)	Conduit	t Co	nduct	ors	Sw it	ch	Ckt	.Bkr.		Contact	or	Loadc	enter		No.		Ckt. I	Bkr.	Ci	rcuit		Load		ONTROL	MINAIRES SH	ALL
												Jontao																
No.			Size	1	No./Siz	е	Amp	s	Pole	e/Amp		Amps		AmpF	Rating				Pole/A		Ar	nps				S. PEDESTR	RIAN SIGNAL	ΗE
No. TS1	BRUSHLINE RD	ELC SRV TY D 120/240 060 (NS)AL(T)TS(O)	<b>Size</b> 1 1/4"		<b>No./Siz</b> 3/#6	e	Amp N/A							<b>Amp F</b> 10			ts .ight		Pole/A 1P/5 1P/1	0		<b>mps</b> 40 2	_	5.0	6 7 E	. THE CON	RIAN SIGNAL NTRACTOR S CATION OF E CONFLICT W	HAL
TS1		(NS)AL(T)TS(O)	1 1/4" PRO	POSED S	3/#6 SIGNS		N/A		2	<b>e/Amp</b> P/60		Amps N/A		10	00 T				1P/5	0		40			6 7 E T 8 8 0	ADJUSTMEN CACT LOC AVOID TO AVOID ADJUSTMEN OR DEEMED	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO O NECESSAR	HAL EXIS ITH HAL U
TS1		(NS)AL(T)TS(O)	1 1/4" PRO	POSED S	3/#6 SIGNS		N/A		2	<b>e/Amp</b> P/60		Amps N/A		10	00 T				1P/5	0		40			6 7 E T 8 0 9	Z. THE CON XACT LOO O AVOID 3. THE CON ADJUSTMEN DR DEEMED D. ALL LUN	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO D NECESSAR	HAI EXIS ITH HAI Y E
TS1			1 1/4" PRO	POSED S	3/#6 SIGNS		N/A		2	<b>e/Amp</b> P/60		Amps N/A			00 T				1P/5	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAI EXIS ITH HAI Y E ALL
TS1		(NS)AL(T)TS(O)	1 1/4" PRO	POSED 5	3/#6 SIGNS		N/A		2	<b>e/Amp</b> P/60		Amps N/A	d	10	00 T				1P/5	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO D NECESSAR MINAIRES SHA ED TRAFFIC	HAI EXIS ITH HAI Y E ALL
TS1	10nt 41.7	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47	1 1/4" PROI	POSED 5	3/#6		N/A TU 3, 0.5" BO	IS 66 rder, Wh	2 hl	een;		Amps N/A	d	10	00 T				1P/5	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAI EXIS ITH HAI Y E ALL
TS1	10nt 41.7	(NS)AL(T)TS(O) <b>e Cristo</b> 40.2 40.2 7 on Green:	1 1/4" PROI	POSED 5	3/#6	B .2k 5" Radius	N/A TU 3, 0.5" BO	IS 66 rder, Wh	2 hl	e/Amp P/60		Amps N/A	d	10	00 T				1P/5	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAI EXIS ITH HAI Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri:	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 on Green; sto] ClearviewHwy-3-W; [Rd] ClearviewHwy-3 S4	1 1/4" PROI Rd	POSED 5	3/#6	B .2k 5" Radius	N/A TU 3, 0.5" BO	IS 66 rder, Wh	2 hl	e/Amp P/60	<b>1</b> wy-3-W: 51, 51	Amps N/A • 7.5 + 10	<b>d</b> .6→5.2	4 - 10 4 4 4 - 7 - 4 4 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -					1P/5	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAI EXIS ITH HAI Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri:	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 118 on Green; sto] ClearviewHwy-3-W; [Rd] Cle	1 1/4" PROI Rd	POSED 5	3/#6	B .2k 5" Radius irushlinej	NA TU s, 0.5" Bo Clearview	IS 66 rder, Wh	21 <b>hl</b> 3.5 ite on Gr ; [Rd] Ck	e/Amp P/60 IIII een: sarviewHw S POLE	<b>1</b> wy-3-W: 51, 51	Amps N/A • 7.5 + 10	<b>d</b>	10 			FOUN		1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri:	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 on Green; sto] ClearviewHwy-3-W; [Rd] ClearviewHwy-3 S4 SED SIGNAL EQUIPN	1 1/4" PROI Rd :5-4- 10.7-45.2 3-W: /ENT :SSIBLE PED		3/#6	B 24 5° Radius rushline] POLE NO.	N/A TU s, 0.5" Bo Clearview	66 66 rder, Wh Hwy-3-W	21 <b>hl</b> 3.5 95- 100 Cle DESCR POLE	e/Amp P/60 P/60 een: sarviewHw S POLE IPTION WITH IC	<b>De</b> <b>b</b> <b>b</b> <b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	Amps N/A *7.5 +- 10 3	d .6-15.2			ET	FOUN	NDATIO	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri:	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 on Green: sto] ClearviewHwy-3-W; [Rd] ClearviewHwy-3-W; [Rd] ClearviewHwy-3-W; S4 SED SIGNAL EQUIPM (1) (2) (4) (5) (6) (7)	1 1/4" PROI Rd :5 - 10.7 - 15.2 3-W: MENT SIGNAL UN	POSED S	3/#6	B 5" Radius rushline] POLE NO. PI	N/A TU 3, 0.5" Bo Clearview	66 rder, Wh Hwy-3-W	21 <b>hl</b> 3.5 95- ite on Gr ; [Rd] Cle DESCR POLE ARM, WI	e/Amp P/60 P/60 een; een; earviewHw S POLE POLE IPTION WITH IC , & PB	<b>De</b> <b>h</b> <b>h</b> <b>h</b> <b>h</b> <b>h</b> <b>h</b> <b>h</b> <b>h</b>	Amps N/A *7.5 - 10 3	<b>d</b> .6-J5.2 LLER I STA.		00 00 00 00 00 00 00 00 00 00 00 00 00		FOUN 36-B	NDATIO DIZE × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri:	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 on Green; sto] ClearviewHwy-3-W; [Rd] ClearviewHwy-3 S4 SED SIGNAL EQUIPN (1) (2) (4) (5) (6) (7) 10 11	1 1/4" PROI Rd :5-4- 10.7-45.2 3-W: /ENT :SSIBLE PED	POSED S	3/#6	B 5" Radius rushline] POLE NO. PI P2	N/A <b>TU</b> 3, 0.5" Bo Clearview 34' S LUMIN 34' S PB2	66 rder, Wh Hwy-3-W	21 <b>hl</b> 3.5 ite on Gr (Rd) Ck DESCR POLE ARM, WI POLE	een: P/60 een: S POLE POLE IPTION WITH IC, & PB WITH W	<b>De</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Amps N/A *7.5 - +- 10 3 CONTRO	<b>d</b> .6-15.2 STA. 314+11.2	10 + + + + + + + + + + + + + + + + + + +	00 00 00 00 00 00 00 00 00 00 00 00 00		FOUN 36-B 36-B	IDATIO JZE × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri: PROPO	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 40.2 47 40.2 47 40.2 47 54 SED SIGNAL EQUIPN (1 (2) (4) (5) (6) (7) ACCE TO II ACCE	1 1/4" PROI Rd .5 - 10.7 - J 5.2 3-W: MENT SSIBLE PET SIGNAL UN NCLUDE PET PUSH BUTT	POSED S	3/#6	B 24 5° Radius trushline] POLE NO. PI P2 P3	N/A TU 3, 0.5" Bo Clearview 34' S LUMIN 34' S PB2 34' S LUMIN	60 rder, Wh Hwy-3-W	21 <b>hl</b> 3.5 (Rd) Cle DESCR POLE ARM, WI POLE POLE ARM	een; een; arviewHw S POLE POLE WITH IC & PB WITH W	<b>De</b> <b>b</b> <b>b</b> <b>b</b> <b>c</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	Amps N/A *7.5 + 10 3 CONTRO	<b>d</b> .6-15.2 STA. 314+II.2 14+97.		00 00 00 00 00 00 00 00 00 00 00 00 00	ET LT LT RT	FOUN 36-B 36-B 36-B	NDATIO 51ZE × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri: PROPO	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 118 40.2 47 118 40.2 47 54 SED SIGNAL EQUIPN (1) (2) (4) (5) (6) (7) 10 11	1 1/4" PROI PROI PROI PROI PROI SECON PROI PRO	POSED S	3/#6	B 5" Radius rushline] POLE NO. PI P2	N/A TU s, 0.5" Bo Clearview 34' S LUMIN 34' S LUMIN 34' S	Ger Ger Hwy-3-W TRAIN TRAIN TRAIN TRAIN TRAIN TRAIN	21 <b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	een: P/60 een: arviewHw POLE POLE POLE IPTION WITH IC WITH W WITH IC WITH W	<b>De</b> 	Amps N/A •7.5 - 10 3 CONTRO 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>d</b> .6-15.2 STA. 314+11.2	10	00 00 00 00 00 00 00 00 00 00 00 00 00	LT LT RT RT	FOUN 36-B 36-B 36-B	IDATIO JZE × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri: PROPO	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 40.2 47 40.2 47 40.2 47 54 SED SIGNAL EQUIPN (1 (2) (4) (5) (6) (7) ACCE TO II ACCE	1 1/4" PROJ Rd .5 - 10.7 - 15.2 3-W: XENT SSIBLE PEC SIGNAL UN VCLUDE PEC PUSH BUTT	POSED S	3/#6	B 24 5° Radius trushline] POLE NO. PI P2 P3	5, 0.5" Bo Clearview 34' S LUMIN 34' S PB2 34' S LUMIN 34' S	Georgen Contraction Contractio	21 <b>hl</b> 3.5 95 ite on Gr (Rd) Cle DESCR POLE POLE POLE POLE POLE	een: P/60 een: POLE POLE PTION WITH IC WITH IC WITH IC WITH W WITH IC	<b>De</b> + + + + + + + + + + + + +	Amps N/A *7.5 + 10 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO	<b>d</b> .6-15.2 STA. 314+II.2 14+97.	10	00 00 00 00 00 00 00 00 00 00 00 00 00	LT LT RT RT	FOUN 36-B 36-B 36-B 36-B 36-B	NDATIO 51ZE × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri: PROPO	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 40.2 47 40.2 47 40.2 47 54 SED SIGNAL EQUIPN (1 (2) (4) (5) (6) (7) ACCE TO II ACCE	1 1/4" PROI PROI PROI PROI PROI SECON PROI PRO	DESTRIAI	3/#6	B 2 5" Radius rushline] POLE NO. PI P2 P3 P4 PEDI	N/A TU 3, 0.5" Bo Clearview 34' S PB2 34' S LUMII 34' S LUMII 34' S IO' S1 W4 &	TRAIN Ger rder, Wh twy-3-W TRAIN	21 <b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	een; een; een; een; een; een; een; een;	<b>De</b> <b>w</b> -3-W: 51, S1 51, S1 52 8 7 7 8 7 7 8 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	Amps N/A *7.5 - 10 3 CONTRO 3 PB3 3 FH	<b>d</b> .6-15.2 STA. 314+11.2 44+97 44+97.	10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 00 00 00 00 00	T LT LT RT RT LT	FOUN 36-B 36-B 36-B 36-B 36-B 24-A	IDATIO JZE × 15.2 × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Cri: PROPO	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 40.2 47 40.2 47 40.2 47 54 SED SIGNAL EQUIPN (1 (2) (4) (5) (6) (7) ACCE TO II ACCE	1 1/4" PROI	POSED S	3/#6	B 2 5" Radius rushline] POLE NO. PI P2 P3 P4 PEDI	5, 0.5" Bo Clearview 34' S LUMIN 34' S PB2 34' S LUMIN 34' S LUMIN 34' S	TRAIN ISS 66 67 67 67 7 7 7 7 7 7 7 7 7 7 7 7 7	21 <b>hl</b> 3.5 ite on 67 ; [Rd] Cle DESCR POLE ARM, WI POLE POLE POLE POLE ROPOSE	een: een: een: een: een: een: een: een:	<b>De</b> <b>w</b> -3-W: 51, S1 51, S1 52 8 7 7 8 7 7 8 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	Amps N/A *7.5 - 10 3 CONTRO 3 PB3 3 FH	LLER I STA. 314+11,2 14+97. 14+20. 314+19.	10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 58.65' 49.06' 49.06' 49.06' 64.99'	T LT LT RT RT LT	FOUN 36-B 36-B 36-B 36-B 36-B 24-A	DATIO JZE × 15.2 × 15.2 × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Crit PROPO	(NS)AL(T)TS(O) <b>e Cristo</b> <b>a</b> 7.5 4 40.2 47 <b>b</b> 7.5 4 40.2 77 <b>c</b> 7.5 4 40.2 77 <b>c</b> 7.5 4 40.2 77 <b>c</b> 7.5 4 77 <b>c</b> 7.5 7.	1 1/4" PROI	POSED S	3/#6	B 5" Radius trushline] POLE NO. PI P2 P3 P4 PEDI CON' CZ NOTE:	Clearview 34' S LUMIN 34' S PB2 34' S LUMIN 34' S PB2 34' S LUMIN 34' S ROLLE	TRAIN der, Wh twy-3-W TRAIN	21 <b>hl</b> 3.5 95- ite on Gr 7 [Rd] Cle DESCR POLE POLE POLE POLE POLE POLE POLE POLE POLE POLE POLE POLE POLE POLE	een: P/60 een: harviewHw S POLE PTION WITH IC & PB WITH W WITH IC WITH W WITH IC LER IN D NEM LER IN D NEM	NP-3-W: 51, S2 51, S2 51, S2 51 52 53 122 8 122 8 122 8 122 8 122 8 122 8 122 8 122 8 122 8 122 8 122 8 13 14 14 14 14 14 14 14 14 14 14	Amps N/A *7.5 - 10 3 CONTRO 3 PB3 3 FH	d .6→5.2 STA. 314+11.2 14+97. 14+97. 14+97. 313+91.	10 + + + + + + + + + + + + + + + + + + +	00 00 00 00 00 00 00 00 00 00 00 00 00	ET LT LT RT LT LT 'LT	FOUN 36-B 36-B 36-B 36-B 36-B 24-A	DATIO JZE × 15.2 × 15.2 × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAL XIS ITH HAL Y E ALL
TS1	A1.7 s, 0.5" Border, White earviewHwy-3-W: [Crist PROPO PROPO VENTED B/ RETROREF VENTED B/ RETROREF	(NS)AL(T)TS(O) <b>e Cristo</b> 47.5 4 40.2 47 40.2 47 40.2 47 40.2 47 54 SED SIGNAL EQUIPN (1 (2) (4) (5) (6) (7) ACCE TO II ACCE	1 1/4" PROU	POSED S	3/#6	B 5" Radius rushline] POLE NO. PI P2 P3 P4 PEDI CON' CZ NOTE: STATI	Clearview 34' S LUMIN 34' S PB2 34' S LUMIN 34' S PB2 34' S LUMIN 34' S ROLLE	TRAIN HWY-3-W TRAIN IAIRE TRAIN TRAIN TRAIN TRAIN TRAIN AIRE TRAIN AIRE TRAIN AIRE TRAIN AIRE TRAIN AIRE	21 <b>hll</b> 3.5 3.5 3.5 3.5 100 100 100 100 100 100 100 10	een: P/60 P/60 een: POLE	<b>De</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	Amps N/A *7.5+-10 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 1 CONTRO CONTRO 1 CONTRO 1 CONTRO 1 CONTRO 1 CONTRO 1 CON	LLER I STA. 314+11.2 44+97. 44+97. 44+97. 313+91. 313+91.	10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 00 00 00 00 00	ET LT LT RT LT LT 'LT	FOUN 36-B 36-B 36-B 36-B 36-B 24-A	DATIO JZE × 15.2 × 15.2 × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HAI EXIS ITH HAI Y E ALL
TS1	A1.7 s, 0.5" Border, White earviewHwy-3-W: [Crist PROPO PROPO VENTED B/ RETROREF VENTED B/ RETROREF	(NS)AL(T)TS(O) <b>e Cristo</b> <b>a</b> 7.5 4 40.2 47 a 7.5 4 40.2 77 a 7.5 4 40.2 77 a 7.5 4 40.2 77 a 7.5 4 77 a 7.	1 1/4" PROI Rd 	POSED S POSED S POS	3/#6	B 5' Radius rushline] POLE NO. PI P2 P3 P4 PEDI CON' C4 STATI FM 19	N/A           TU           3, 0.5" Bo           Clearview           34' S           PB2           34' S           PB2           34' S           LUMII           34' S           IO' S1           W4 &           TROLLET           SON NUI           I25. EX/	ISS Gef rder, Wh twy-3-W TRAIN T	21 <b>hl</b> 3.5 ite on Gr ite on	P/60 P/60 P/60 P/60 P/60 P/60 P/60 P/60	<b>De</b> <b>Pe</b> <b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	Amps N/A *7.5 - 10 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 5 CONTO 5 CONTO 5 CONTRO 5 CONTRO 5 CONTRO 5 CONTRO 5 CO	LLER I STA. 314+11.2 44+97. 14+97. 14+97. 14+20. 313+91. 14+19. 14+19.	10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 58.65 58.65 58.65 58.75 58.75 58.75 8 8 1.1NE	ET LT LT RT LT LT 'LT	FOUN 36-B 36-B 36-B 36-B 36-B 24-A	DATIO JZE × 15.2 × 15.2 × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	HA EXIS ITF HA U Y ALL SI
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; [Crit PROPO	(NS)AL(T)TS(O) <b>e Cristo</b> <b>a</b> 7.5 4 40.2 47 a 7.5 4 40.2 77 a 7.5 4 40.2 77 a 7.5 4 40.2 77 a 7.5 4 77 a 7.	1 1/4" PROI	POSED S POSED S POS	3/#6	B 5' Radius rushline] POLE NO. PI P2 P3 P4 PEDI CON' C4 STATI FM 19	N/A           TU           3, 0.5" Bo           Clearview           34' S           PB2           34' S           PB2           34' S           LUMII           34' S           IO' S1           W4 &           TROLLET           SON NUI           I25. EX/	ISS Gef rder, Wh twy-3-W TRAIN T	21 <b>hl</b> 3.5 ite on Gr ite on	P/60 P/60 P/60 P/60 P/60 P/60 P/60 P/60	<b>De</b> <b>Pe</b> <b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	Amps N/A *7.5 - 10 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 5 CONTO 5 CONTO 5 CONTRO 5 CONTRO 5 CONTRO 5 CONTRO 5 CO	LLER I STA. 314+11.2 44+97. 14+97. 14+97. 14+20. 313+91. 14+19. 14+19.	10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 58.65 58.65 58.65 58.75 58.75 58.75 8 8 1.1NE	ET LT LT RT LT LT 'LT	FOUN 36-B 36-B 36-B 36-B 36-B 24-A	DATIO JZE × 15.2 × 15.2 × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	iha EXI ITE HA Y ALI
TS1	41.7 s, 0.5" Border, White earviewHwy-3-W; Icri PROPO YG VENTED B/ RETROREF	(NS)AL(T)TS(O) <b>e Cristo</b> 47,54 40.2 47 on Green: sto) ClearviewHwy-3-W; [Rd] ClearviewHwy-3- S4 SED SIGNAL EQUIPN (1) (2) (4) (5) (6) (7) ACCE TO II ACCE TO III ACCE TO III ACCE TO II ACCE TO II	1 1/4" PROI Rd 	POSED S T T T T T T T T T T T T T	3/#6	B 5' Radius rushline] POLE NO. PI P2 P3 P4 PEDI CON' C4 STATI FM 19	N/A           TU           3, 0.5" Bo           Clearview           34' S           PB2           34' S           PB2           34' S           LUMII           34' S           IO' S1           W4 &           TROLLET           SON NUI           I25. EX/	ISS Gef rder, Wh twy-3-W TRAIN T	21 <b>hl</b> 3.5 ite on Gr ite on	P/60 P/60 P/60 P/60 P/60 P/60 P/60 P/60	<b>De</b> <b>Pe</b> <b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	Amps N/A *7.5 - 10 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 5 CONTO 5 CONTO 5 CONTRO 5 CONTRO 5 CONTRO 5 CONTRO 5 CO	LLER I STA. 314+11.2 44+97. 14+97. 14+97. 14+20. 313+91. 14+19. 14+19.	10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 58.65 58.65 58.65 58.75 58.75 58.75 8 8 1.1NE	ET LT LT RT LT LT 'LT	FOUN 36-B 36-B 36-B 36-B 36-B 24-A	DATIO JZE × 15.2 × 15.2 × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	iha EXI ITE HA Y ALI
TS1	A1.7 s, 0.5" Border, White earviewHwy-3-W; [Crist PROPO PROPO VENTED B/ RETROREF VENTED B/ RETROREF 18"x16"	(NS)AL(T)TS(O) <b>e Cristo</b> <b>a</b> 7.5 <b>b</b> 40.2 <b>b</b> 7 <b>b</b> 7.5 <b>b</b> 40.2 <b>b</b> 7 <b>c</b>	1 1/4" PROI	POSED S T T T T T T T T T T T T T	3/#6	B 5' Radius rushline] POLE NO. PI P2 P3 P4 PEDI CON' C4 STATI FM 19	N/A           TU           3, 0.5" Bo           Clearview           34' S           PB2           34' S           PB2           34' S           LUMII           34' S           IO' S1           W4 &           TROLLET           SON NUI           I25. EX/	ISS Gef rder, Wh twy-3-W TRAIN T	21 <b>hl</b> 3.5 ite on Gr ite on	P/60 P/60 P/60 P/60 P/60 P/60 P/60 P/60	<b>De</b> <b>Pe</b> <b>b</b> <b>b</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b>	Amps N/A *7.5 - 10 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 3 CONTRO 5 CONTO 5 CONTO 5 CONTRO 5 CONTRO 5 CONTRO 5 CONTRO 5 CO	LLER I STA. 314+11.2 44+97. 14+97. 14+97. 14+20. 313+91. 14+19. 14+19.	10 10 10 10 10 10 10 10 10 10	00 00 00 00 00 00 00 00 58.65 58.65 58.65 58.75 58.75 58.75 8 8 1.1NE	ET LT LT RT LT LT 'LT	FOUN 36-B 36-B 36-B 36-B 36-B 24-A	DATIO JZE × 15.2 × 15.2 × 15.2 × 15.2	1P/5 1P/1	0		40			6 7 E T 8 8 0 9	C. THE CON XACT LOO O AVOID 3. THE CON DJUSTMEN DR DEEMED D. ALL LUN D. PROPOS COMPATIBL	NTRACTOR S CATION OF E CONFLICT W NTRACTOR S NTS, DUE TO NECESSAR MINAIRES SHA ED TRAFFIC E WITH PHA	iha EXI ITE HA Y ALI

LOOP D	)ETECT	OR	SCHEDUI	LE
SAW CUT	WIRE LENGTH	AMP. NO.	SETTING	FUNCTION
130'	236′	2	PRESENCE	CALL AND EXTEND Ø2
7'	210′	2	PRESENCE	CALL AND EXTEND Ø2
76′	128′	9	PULSE	CALL AND EXTEND Ø2
76′	128′	9	PULSE	CALL AND EXTEND Ø2
76′	128′	9	PULSE	CALL AND EXTEND Ø2
129′	234′	3	PRESENCE	CALL AND EXTEND Ø4
187′	350′	5	PRESENCE	CALL AND EXTEND Ø5
132'	240′	6	PRESENCE	CALL AND EXTEND Ø6
119'	214′	6	PRESENCE	CALL AND EXTEND Ø6
76′	128′	Ш	PULSE	CALL AND EXTEND Ø6
76′	128′	Ш	PULSE	CALL AND EXTEND Ø6
76′	128′	Ш	PULSE	CALL AND EXTEND Ø6
1270'	2252′		•	•

BRUSHLINE RD : 45 MPH

TION SHOWN FOR THE TRAFFIC CONTROLLER, STEEL POLES, LOOP CONDUIT RUNS AND CONTROLLER FOUNDATION IS APPROXIMATE. THE ATION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER IN IN WITH THE PHARR DISTRICT TRAFFIC SECTION.

AL CABLE SHALL BE #12 AWG, SERVICE CABLE SHALL BE #6 AWG, EAD- IN CABLE SHALL BE #14 AWG SHIELDED AND LOOP WIRES IN ALL BE #14 AWG.

RACTOR SHALL FURNISH AND INSTALL NEW LED TRAFFIC SIGNAL RIAN SIGNAL HEADS.

HEADS SHALL HAVE BACKPLATES W/ REFL BORDER.

NAIRES SHALL BE OPERATED UNDER THEIR OWN PHOTO ELECTRIC

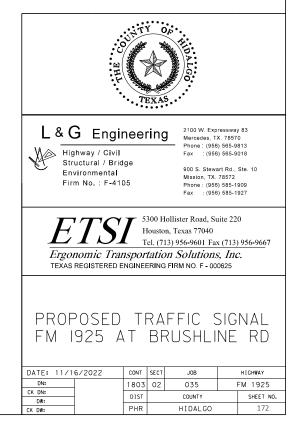
AN SIGNAL HEADS SHALL BE ALIGNED WITH CROSSWALKS.

RACTOR SHALL VERIFY WITH THE UTILITY COMPANIES AS TO THE TION OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INFLICT WITH OR DAMAGE TO THESE UTILITIES.

RACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO MAKE ANY S.DUE TO UTILITY CONFLICTS, AS DEFINED IN THE SPECIFICATIONS NECESSARY BY THE ENGINEER.

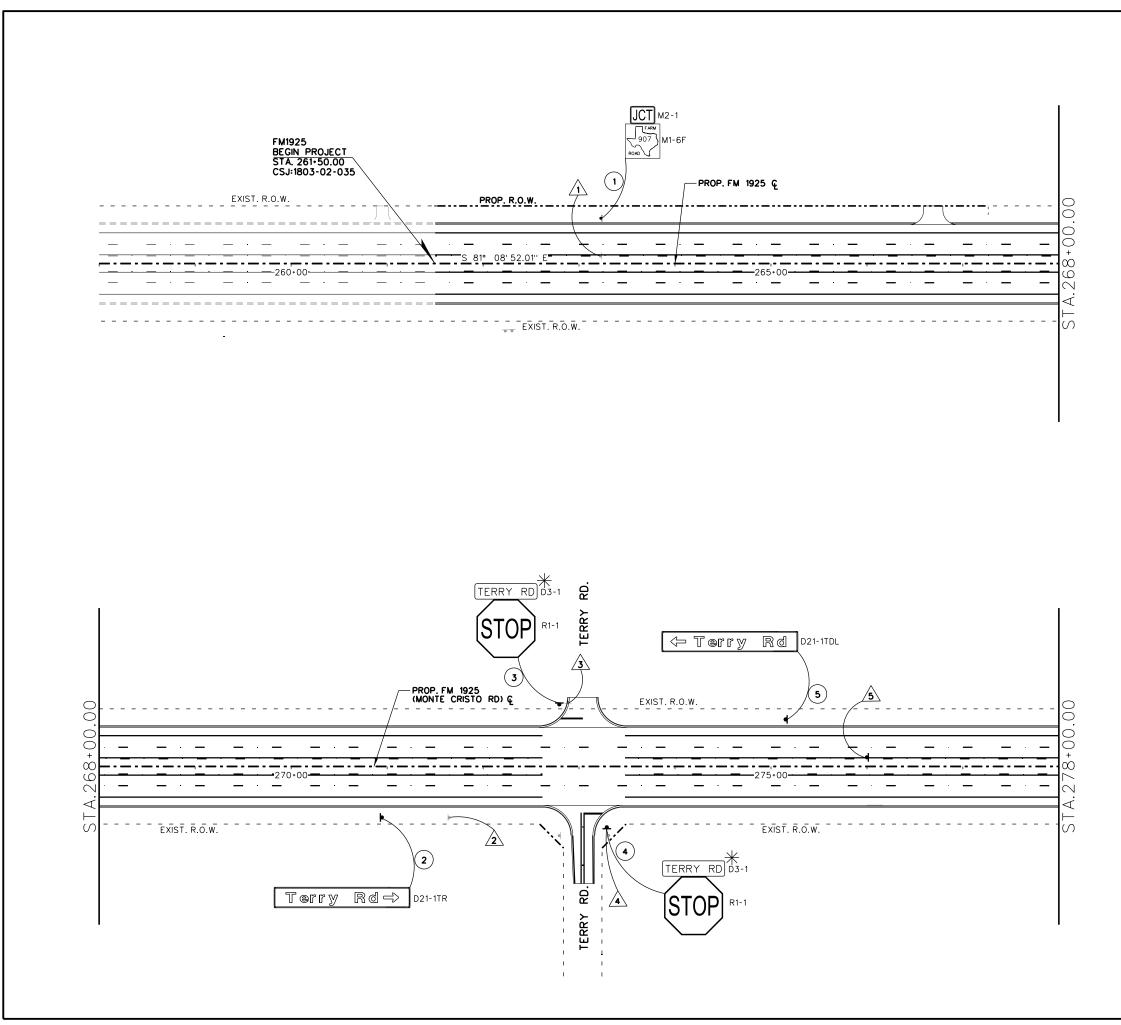
AIRES SHALL BE 250W LED EQUIVALENT.

) TRAFFIC SIGNAL CABINET AND CONTROLLER SHALL BE WITH PHARR DISTRICT'S EXISTING TRAFFIC SIGNAL MANAGEMENT TMS.NOW.





DOCUMENT WAS AUTHORIZED BY C. SIMEONIDIS, P.E. 60919 11/16/2022



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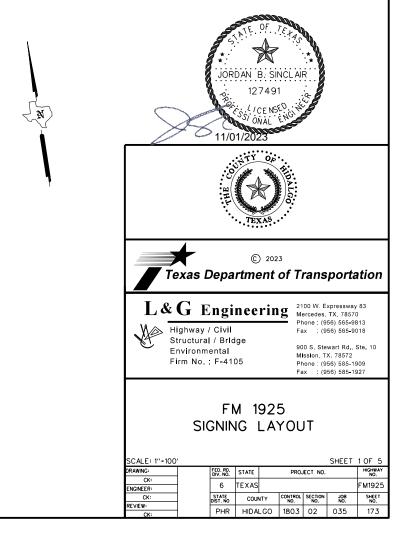
10/31/2023

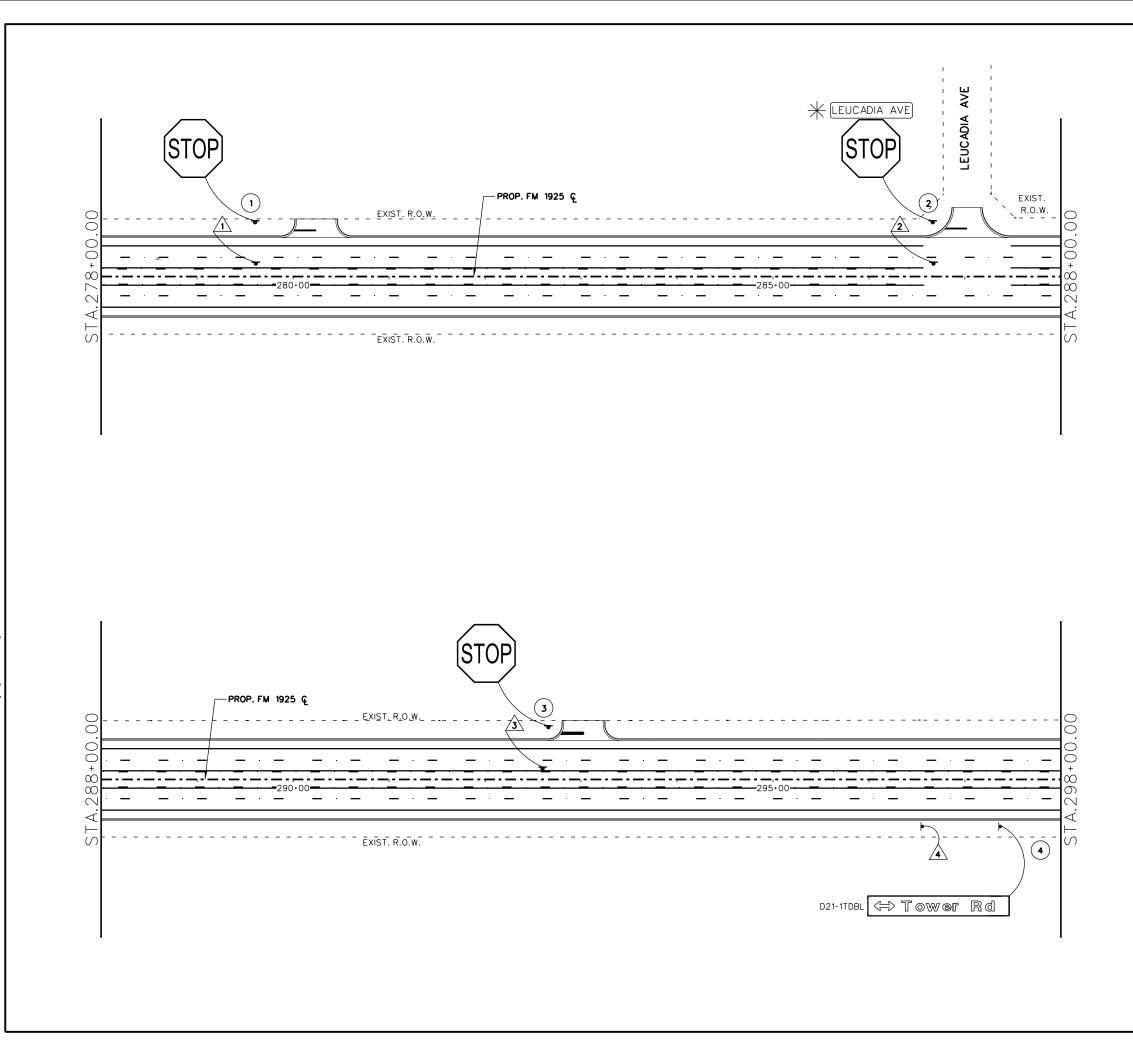
### LEGEND



SIGNS TO REMAIN IN PLACE SIGNS TO BE REMOVED (ITEM 644) SIGNS TO BE RELOCATED (ITEM 644) SIGNS TO BE INSTALLED (ITEM 644) SIGN/RDSD FLASHERS TO BE INSTALLED (ITEM 685) SIGN/RDSD FLASHERS TO BE RELOCATED (ITEM 685) SIGN/RDSD FLASHERS TO BE RELOCATED (ITEM 685) SIGN TO BE INSTALLED BY OTHERS SIGNS SYMBOL

- 1. ALL SIGNS IN WORKING AREAS DESIGNATED TO BE RELOCATED SHALL BE REMOVED AND STORED WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL MAKE THE PRECAUTIONARY MEASURES TO PREVENT DAMAGE DURING CONSTRUCTION. COORDINATE WITH THE PROJECT ENGINEER FOR STORAGE APPROVAL.
- 2. CONTRACTOR IS RESPONSIBLE FOR ALL SIGNS DAMAGED DURING CONSTRUCTION. THESE DAMAGED SIGNS WILL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 3. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO MAKE ANY ADJUSTMENTS, DUE TO CONFLICTS ON ANY SIGNS THAT ARE TO BE RELOCATED.



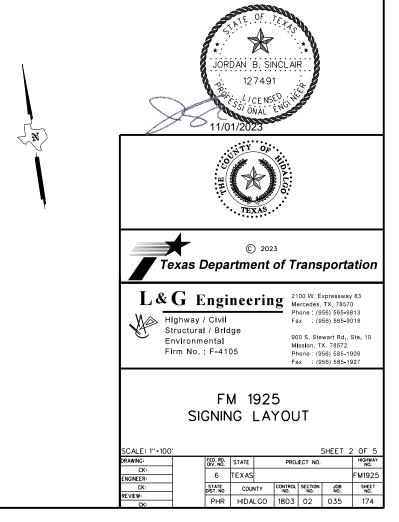


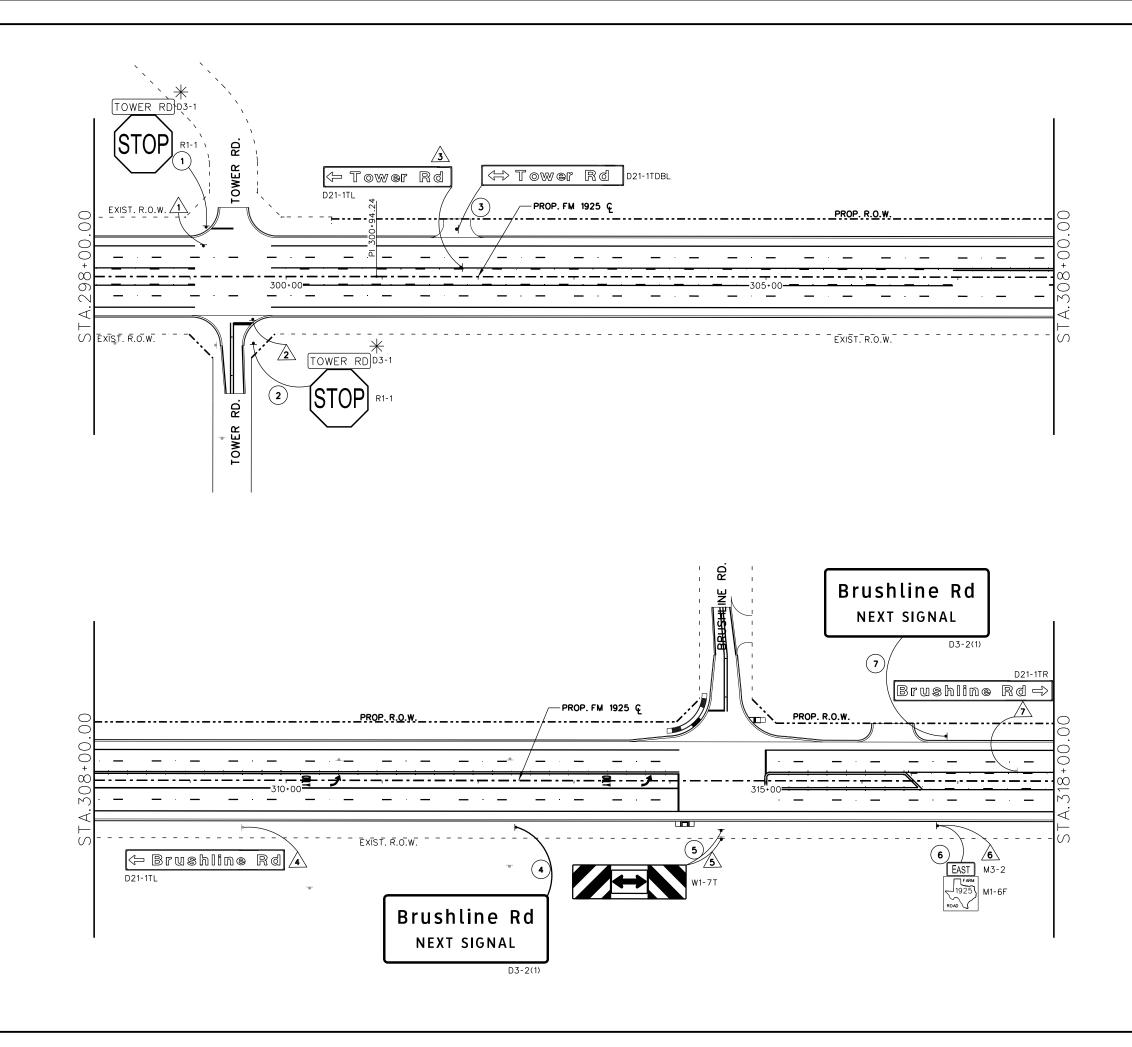
### LEGEND



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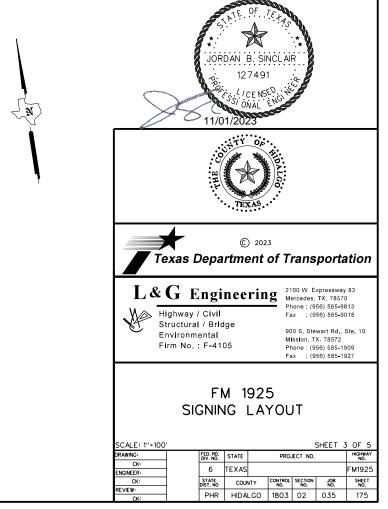
10/31/2023

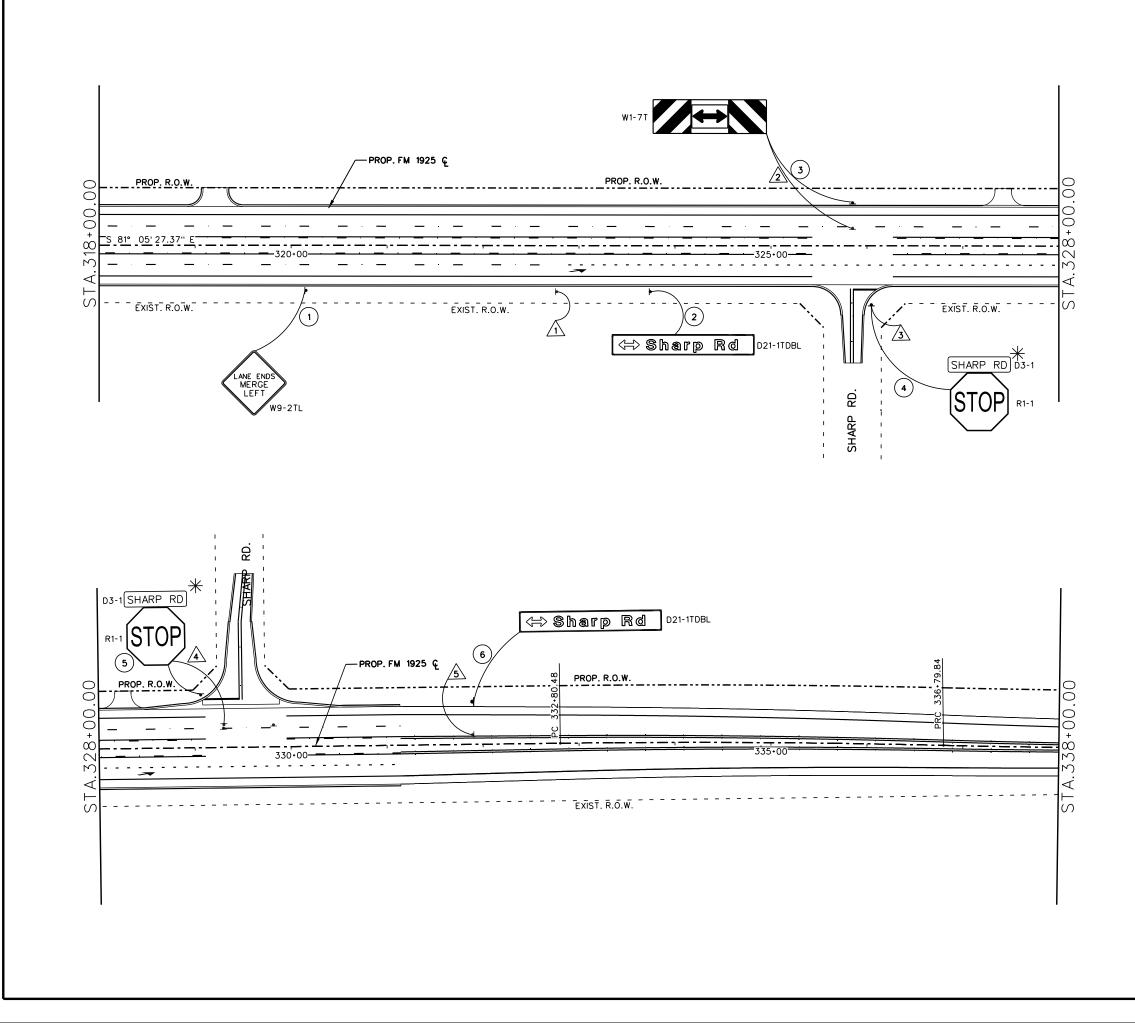
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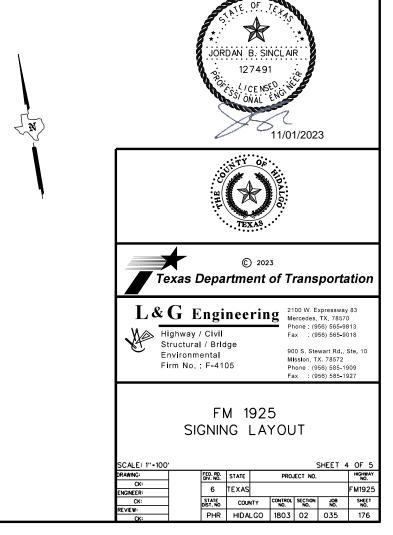


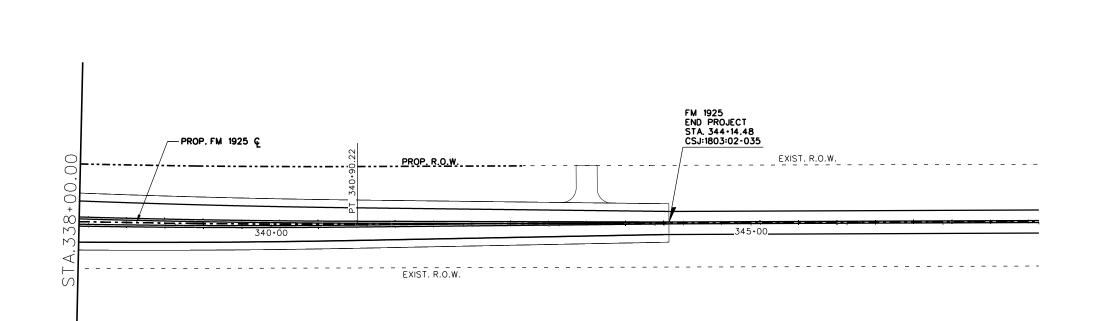
11/1/2023



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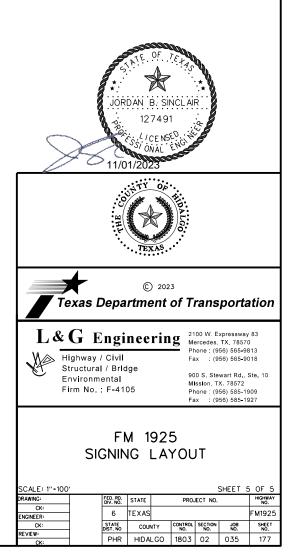


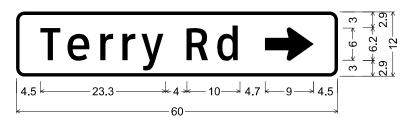
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SIGNS TO REMAIN IN PLACE SIGNS TO BE REMOVED (ITEM 644) SIGNS TO BE RELOCATED (ITEM 644) SIGNS TO BE INSTALLED (ITEM 644) SIGN/RDSD FLASHERS TO BE INSTALLED (ITEM 685) SIGN/RDSD FLASHERS TO BE RELOCATED (ITEM 685) SIGN/RDSD FLASHERS TO BE RELOCATED (ITEM 685) SIGN/RDSD FLASHERS TO BE RELOCATED (ITEM 685) SIGN/RDSD FLASHERS TO BE SIGN/RDSD FL

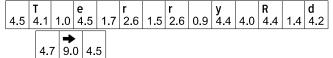
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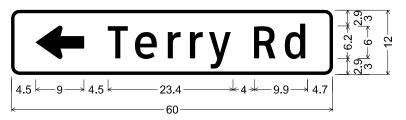




# D21-1T(R) 6in;

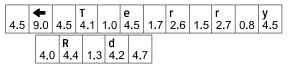
1.5" Radius, 0.5" Border, White on Green; "Terry", ClearviewHwy-3-W; "Rd", ClearviewHwy-3-W; Standard Arrow Custom 9.0" X 6.1" 0°; Table of widths and spaces

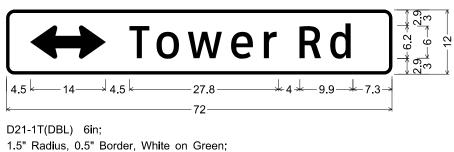




D21-1T(L) 6in;

1.5" Radius, 0.5" Border, White on Green, Standard Arrow Custom 9.0" X 6.1" 180°; "Terry", ClearviewHwy-3-W; "Rd", ClearviewHwy-3-W; Table of widths and spaces

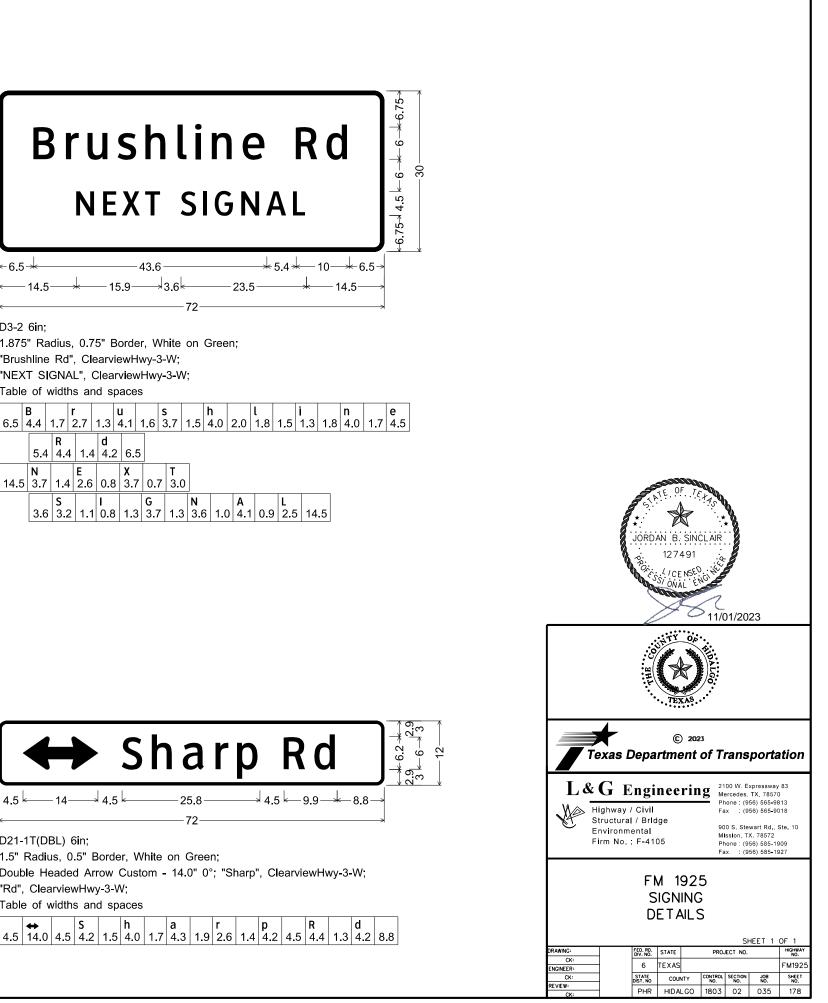


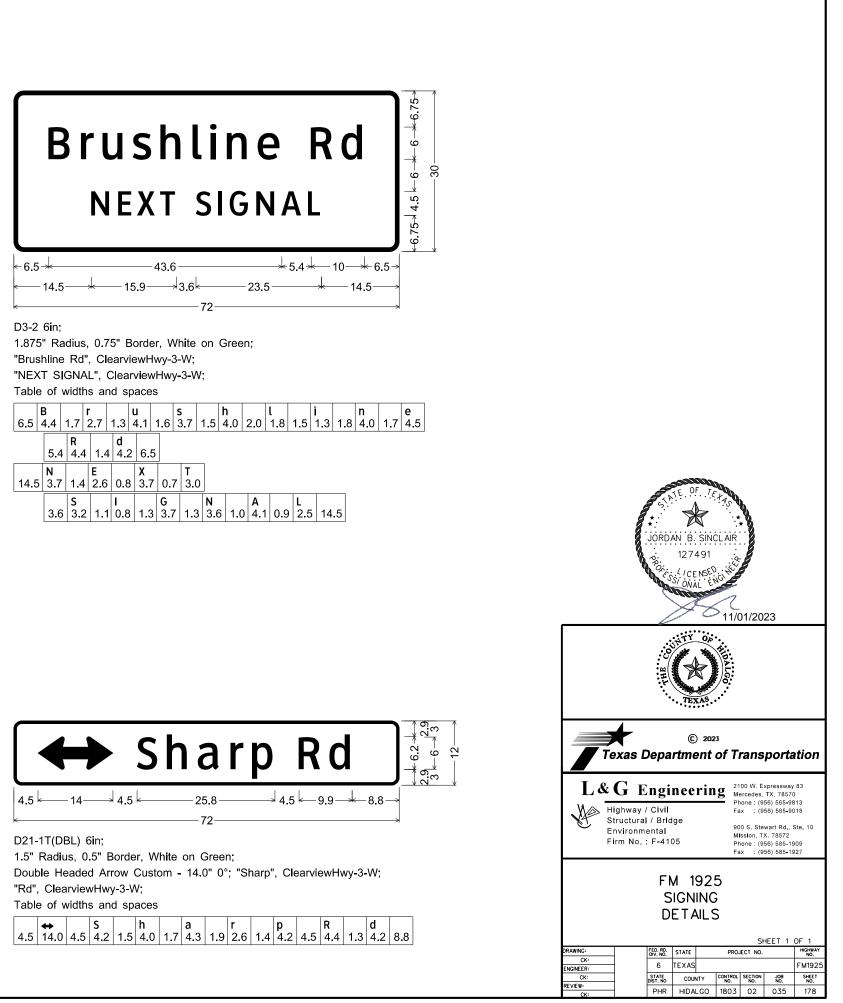


Double Headed Arrow Custom - 14.0" 0°; "Tower", ClearviewHwy-3-W; "Rd", ClearviewHwy-3-W;

Table of widths and spaces 
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NCE	CLEARANCE						(TYPE					PLAN
	SIGNS (See	TING DESIGNATION	MOUN PREFABRICATED	ANCHOR TYPE	POSTS	POST TYPE		DIMENSIONS		SIGN	SIGN	HEET
2)	Note 2)	1EXT or 2EXT = • of Ext BM = Extruded Wind Beam WC = 1.12 */ft Wing Channel		UB=Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt		10BWG = 10 BWG	10   10   4	DIMENSIONS	SIGN	NOMENCLATURE	NO.	NO.
	TY N TY S	EXAL= Extruded Alum Sign Panels	U = "U"	WS=Wedge Steel WP=Wedge Plastic		S80 = Sch 80	FLAT EXAL				5	1 OF
			P	SA	1	S80	1	21X15			1 -	
							<b>ا</b>	24X24	907 ROAD	∟M1-6F		
Gre			Т	SA	1	S80	<b>√</b>	60X12	Terry Rd →	D21-1T(R)	2	
			Р	SA	1	S80	<b>√</b>	36×36	(STOP)	R1-1	3	
fc												
			P	SA	1		<u>ا</u>	36×36	(STOP)	R1-1	4	
NOTE:			T	SA	1		<b>√</b>	60X12		D21-1T(L)	5	
on t may												
desia secu avoir									$\frown$		5	2 OF
othe Cont will v			P	SA	1	S80	<b>/</b>	36×36	(STOP)	R1-1	1	
2. For in signs												
			P	SA	1		<b>√</b>	36×36	STOP	R1-1	2	
3. For S Sign Sign												
			P	SA	1	S80	<b>√</b>	36×36	(STOP)	R1-1	3	
			т	SA	1		1	72X12	>Tower Rd	D21-1T(DBL)	4	
Tex											5	3 OF
			P	SA	1		<b>√</b>	36×36	(STOP)	R1-1	1	
_							_					
FILE: SU			P	SA	1	S80	<b>√</b>	36×36	(STOP)	R1-1	2	
© TxDOT Ma 4-16			т	SA	1	 		72X12	>Tower Rd	D21-1T(DBL)	3	
8-16			•				<b>√</b>	12012			5	

ALUMINUM SIGN BLA	NKS THICKNESS
Square Feet	Minimum Thickness
Less than 7.5	0.080''
7.5 to 15	0.100''
Greater than 15	0.125''

ghway Sign Designs )) can be found at bsite.

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e located as shown pt that the Engineer supports, within where necessary to sirable location or to utilities. Unless n the plans, the ake and the Engineer upport locations. ridge mount clearance Nounted Clearance Sign tandard Sheet. scriptive Codes, see ils Small Roadside s & Details SMD(GEN).

of Transportation

Traffic Operations Division Standard

# MARY OF LL SIGNS

S	503	SS		Sł	неет	1	OF	2
16.dgn	DN: TXC	от	CK: TXDOT	DW:	TXDOT		ск:	TXDOT
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						R	ΰ		D SGN	I ASSM IY _		$\mathbf{x}\mathbf{x}  (\mathbf{x} - \mathbf{x}\mathbf{x}\mathbf{x}\mathbf{x})$	BRIDGE MOUNT	
						(TYPE	ίтΥΡΕ	POST TYPE	POSTS	ANCHOR TYPE		INTING DESIGNATION		
	IIGN NO. NOM	SIGN MENCLATURE	SIGN		DIMENSIONS	FLAT ALUMINUM (	ALUMINUM	FRP = Fiberglass TWT = Thin-Wall 10BWG = 10 BWG S80 = Sch 80	1 or 2	UA-Universal Conc UB-Universal Bolt SA-Slipbase-Conc SB-Slipbase-Bolt WS-Wedge Steel WP-Wedge Plastic	PREF ABRICATED P = "Plain" T = "T" U = "U"		SIGNS (See Note 2) TY - TYPE TY N TY S	
5			Brushline Rd											<b>.</b>
	4	D3-2	NEXT SIGNAL		72X30	<b>√</b>		S80		SA	T			ALUMINUI Square Less th
	5	W1-7T			96X36	4		S80	1	SA	T			7.5 to Greater t
	6	- M2-1	EAST 1925 ROAD		21X15	4		S80	1	SA	P			The Sto
		-M1-6F			24X24	<b>√</b>								The Sta for Text the follo
		D3-2	Brushline Rd NEXT SIGNAL		72×30	4		S80		SA	T			NOTE:
5		/9-2TL(R)	LANE ENDS MERGE LEF T		36x36	4		S80	1	SA	P			<ol> <li>Sign support on the pla may shift design guid secure a avoid cont otherwise Contractor</li> </ol>
	2 D2	21-1T(DBL)	⇔ Sharp Rd		72X12	4		S80	1	SA	T			will verify 2. For installat signs, see Assembly
	3	W1-7T			96X36	4		S80	1	SA	T			3. For Sign Su Sign Moun Signs Gen
	4	R1-1	STOP		36X36	4		S80	1	SA	P			
	5	R1-1	(STOP)		36X36	•		\$80	1	SA	P			Texas De
	6 D2	21-T(DBL)	→ Sharp Rd		72X12			 \$80	1	SA				
														FILE: Sums16.dg
														© TxDOT May 1987 REVISIONS 4-16 8-16

NKS THICKNESS
Minimum Thickness
0.080''
0.100''
0.125''

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- e located as shown pt that the Engineer supports, within where necessary to sirable location or to utilities. Unless n the plans, the ake and the Engineer upport locations. ridge mount clearance Nounted Clearance Sign tandard Sheet.
- scriptive Codes, see ils Small Roadside s & Details SMD(GEN).

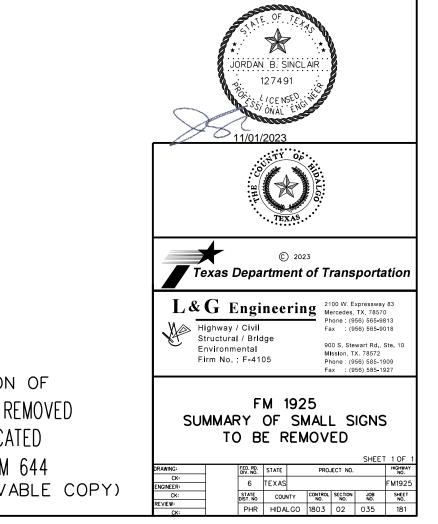
Traffic Operations Division Standard of Transportation

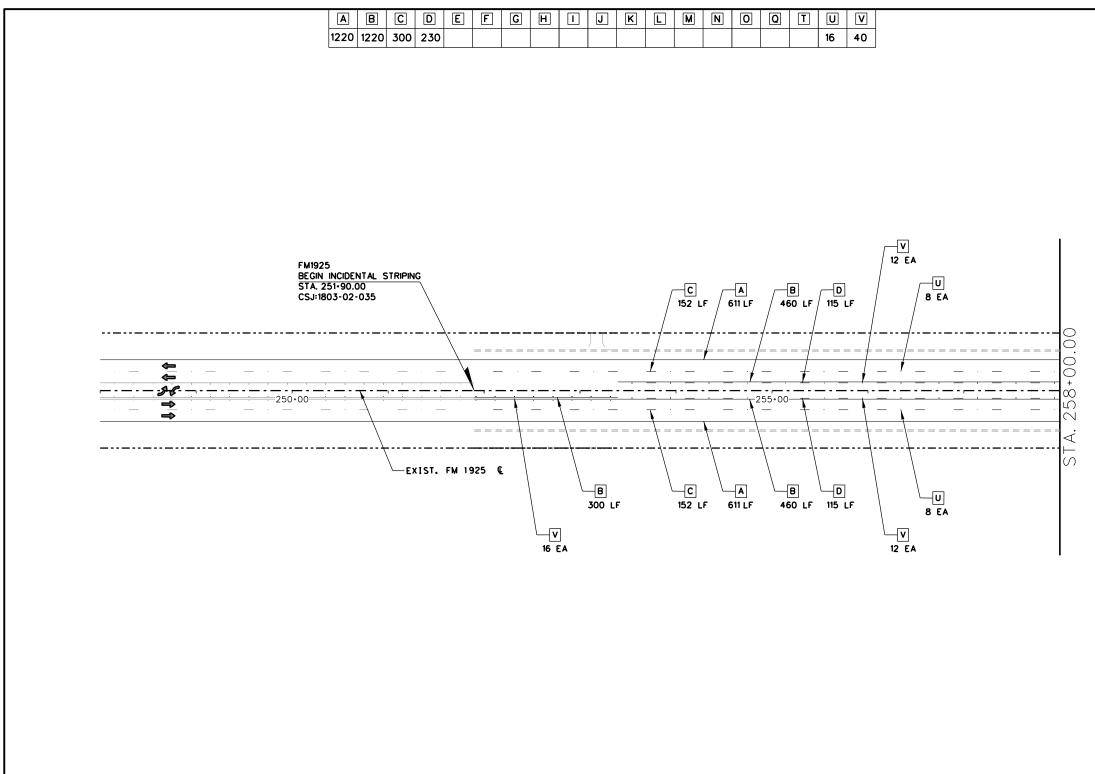
# IMARY OF ALL SIGNS

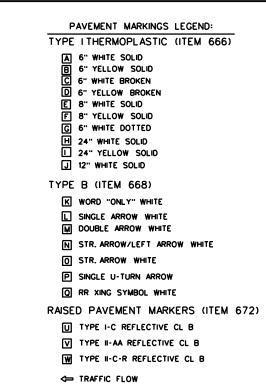
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	DIST		COUNTY			s	неет	NO.
	PHR		HIDALG	0			18	0

					644 6076	644 6070
PLAN SHT. NO.	SIGN NO.	SIGN TYPE	SIGN TEXT	SIGN DIMENS.	REMOVE SMALL SIGN ASSM.	RELOCATE SMALL SIGN ASSM.
			CSJ: 1803-02-035	INCHES	EA.	EA.
1of5	1	M2-1	JUNCTION AUXILIARY SIGN	21X15	X	
	2	D21-1T(R)	TERRY ROAD	VARX12	X	
	3	R1-1	STOP	36X36	X	
	4	R1-1	STOP	36X36	X	
	5	D21-1T(L)	TERRY ROAD	VARX12	X	
2of5	1	D21-1T(R)	STOP	36X36	X	
	2	D21-1T(R)	STOP	36X36	X	
	3	D21-1T(R)	STOP	36X36	X	
	4	D21-1T(DBL)	TOWER ROAD	VARX12	X	
3of5	1	R1-1	STOP	36X36	x	
	2	R1-1	STOP	36X36	X	
	3	D21-1T(L)	TOWER ROAD	VARX12	X	
	4	D21-1T(L)	BRUSHLINE ROAD	VARX12	x	
	5	W1-7T	TWO DIRECTION ARROW SIGN	96X36	X	
	6	M3-2	EAST	24X12	X	
	7	D21-1T(R)	BRUSHLINE ROAD	VARX12	X	
4of5	1	D21-1T(DBL)	SHARP ROAD	VARX12	X	
	2	W1-7T	TWO DIRECTION ARROW SIGN	96X36	X	
	3	R1-1	STOP	36X36	X	
	4	R1-1	STOP	36X36	X	
	5	D21-1T(DBL)	SHARP ROAD	VARX12	X	
				TOTAL	21	

TABULATION OF SIGNS TO BE REMOVED OR RELOCATED UNDER ITEM 644 (WITHOUT REMOVABLE COPY)



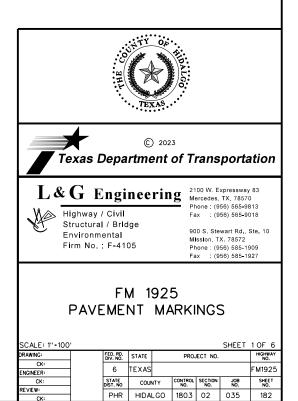




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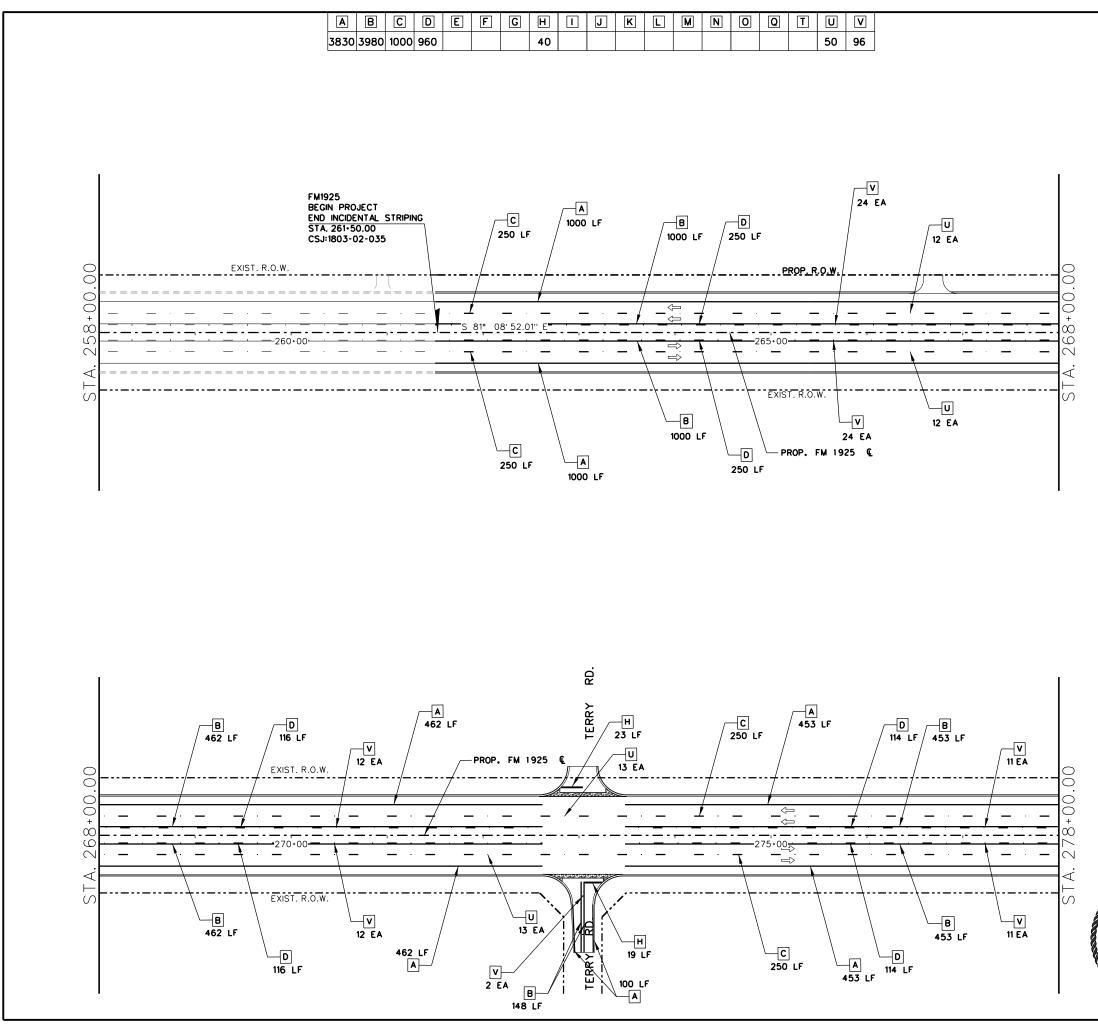
- 1. THE PAVEMENT SURFACE SHALL BE FREE OF DELETERIOUS MATERIAL BEFORE APPLICATION OF PERMANENT STRIPING AND PAVEMENT MARKERS. IF THE SURFACE NEEDS TO BE CLEANED, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL PREPARE SURFACE IN ACCORDANCE WITH ITEM 678, "PAVEMENT SURFACE PREPARATION FOR MARKINGS", EXCEPT FOR "MEASUREMENT" AND "PAYMENT". THE PREPARATION OF PAVEMENT SURFACE SHALL BE SUBSIDIARY TO ITEM 666, 668 AND 672.
- 2. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC 100 MIL.

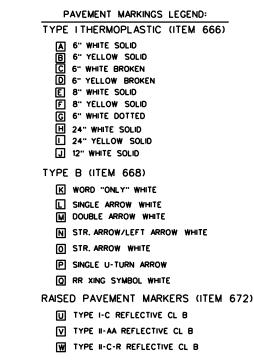


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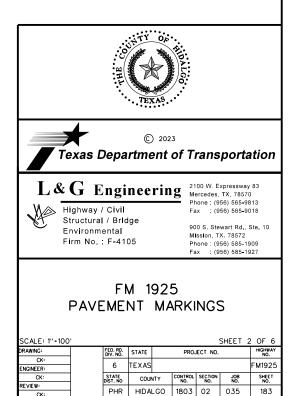
C TRAFFIC FLOW

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- 1. THE PAVEMENT SURFACE SHALL BE FREE OF DELETERIOUS MATERIAL BEFORE APPLICATION OF PERMANENT STRIPING AND PAVEMENT MARKERS. IF THE SURFACE NEEDS TO BE CLEANED, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL PREPARE SURFACE IN ACCORDANCE WITH ITEM 678, "PAVEMENT SURFACE PREPARATION FOR MARKINGS", EXCEPT FOR "MEASUREMENT" AND "PAYMENT". THE PREPARATION OF PAVEMENT SURFACE SHALL BE SUBSIDIARY TO ITEM 666, 668 AND 672.
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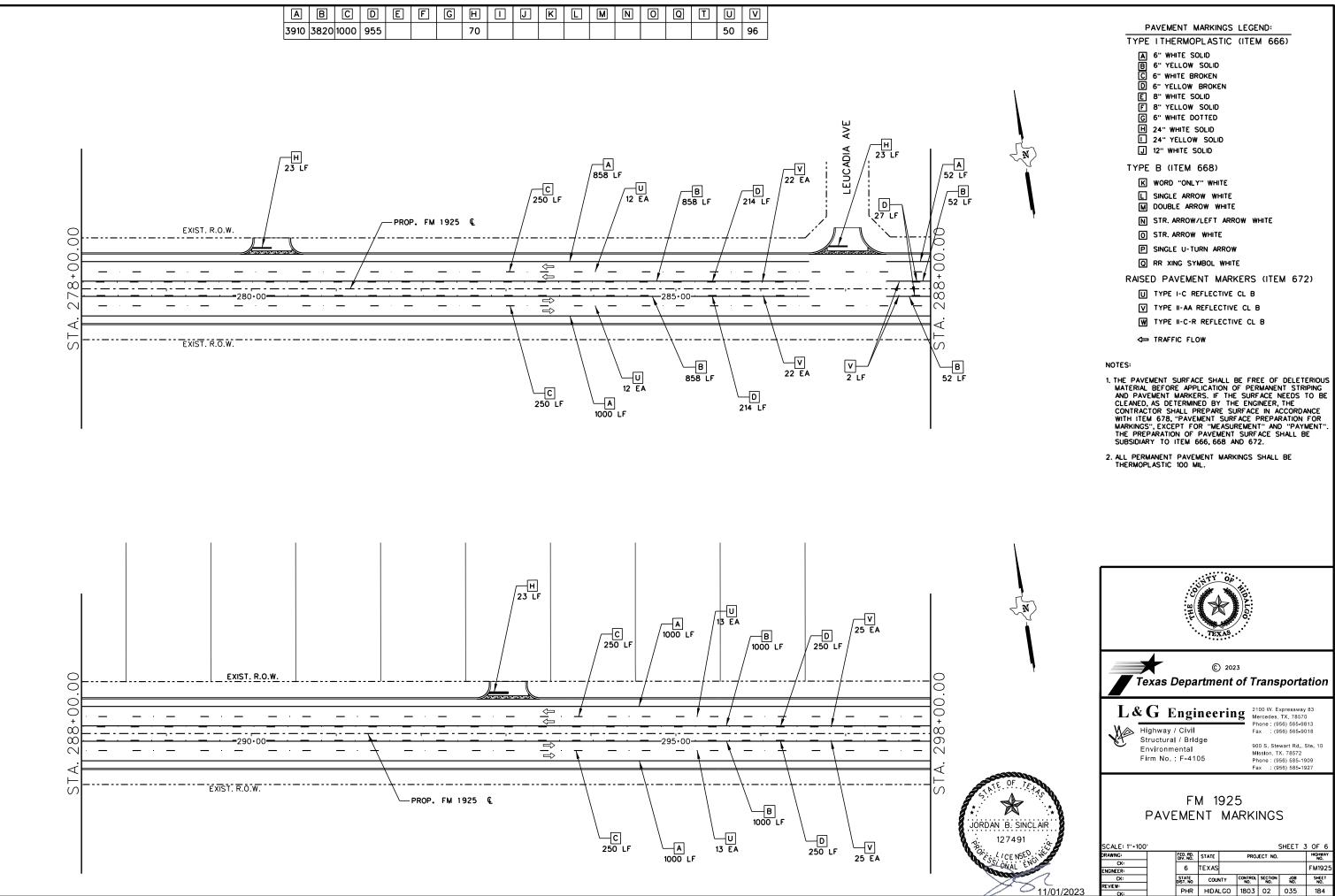


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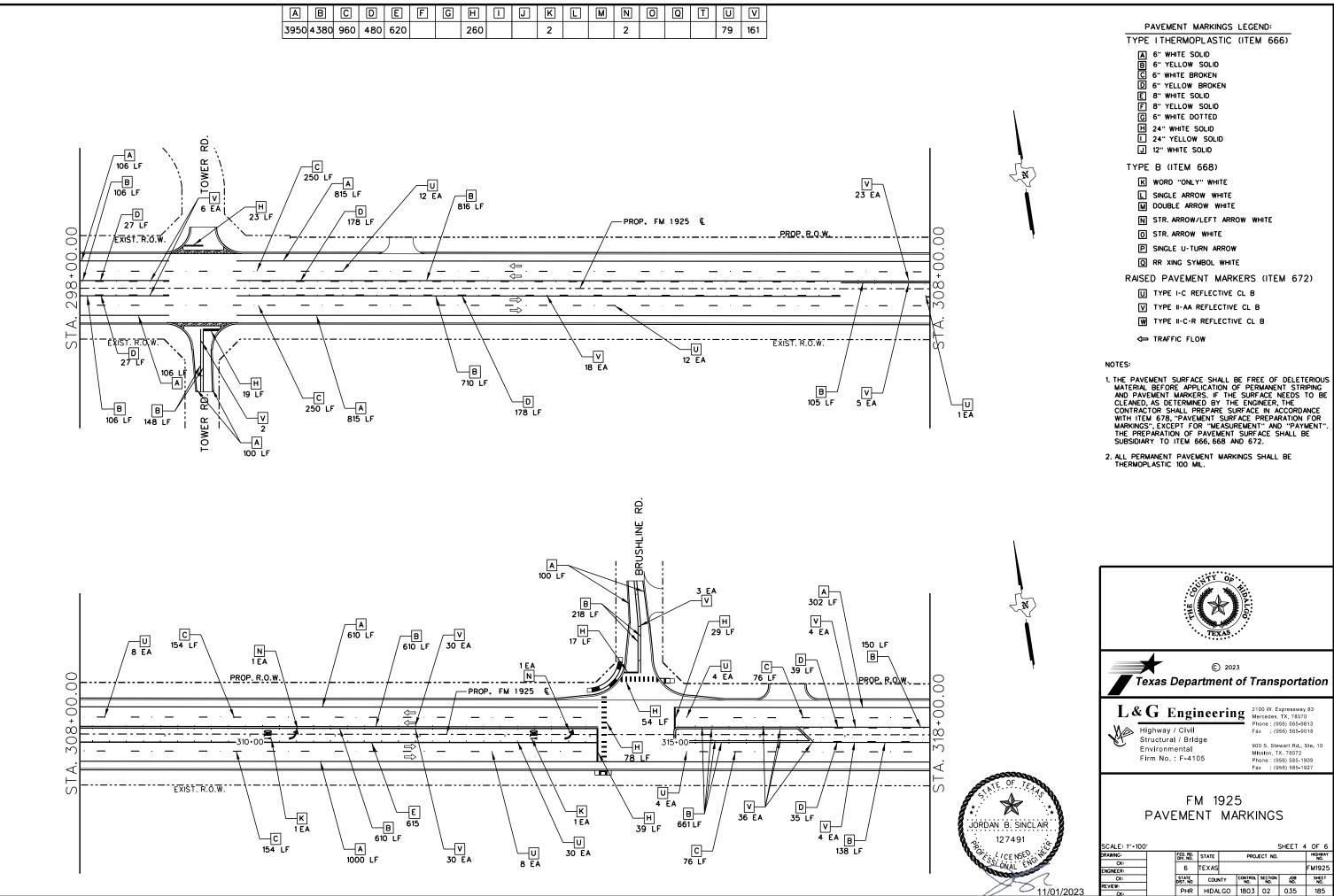
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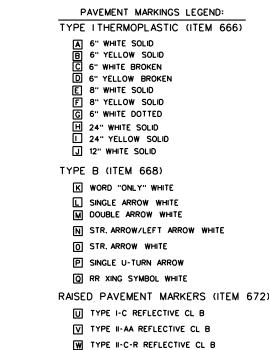
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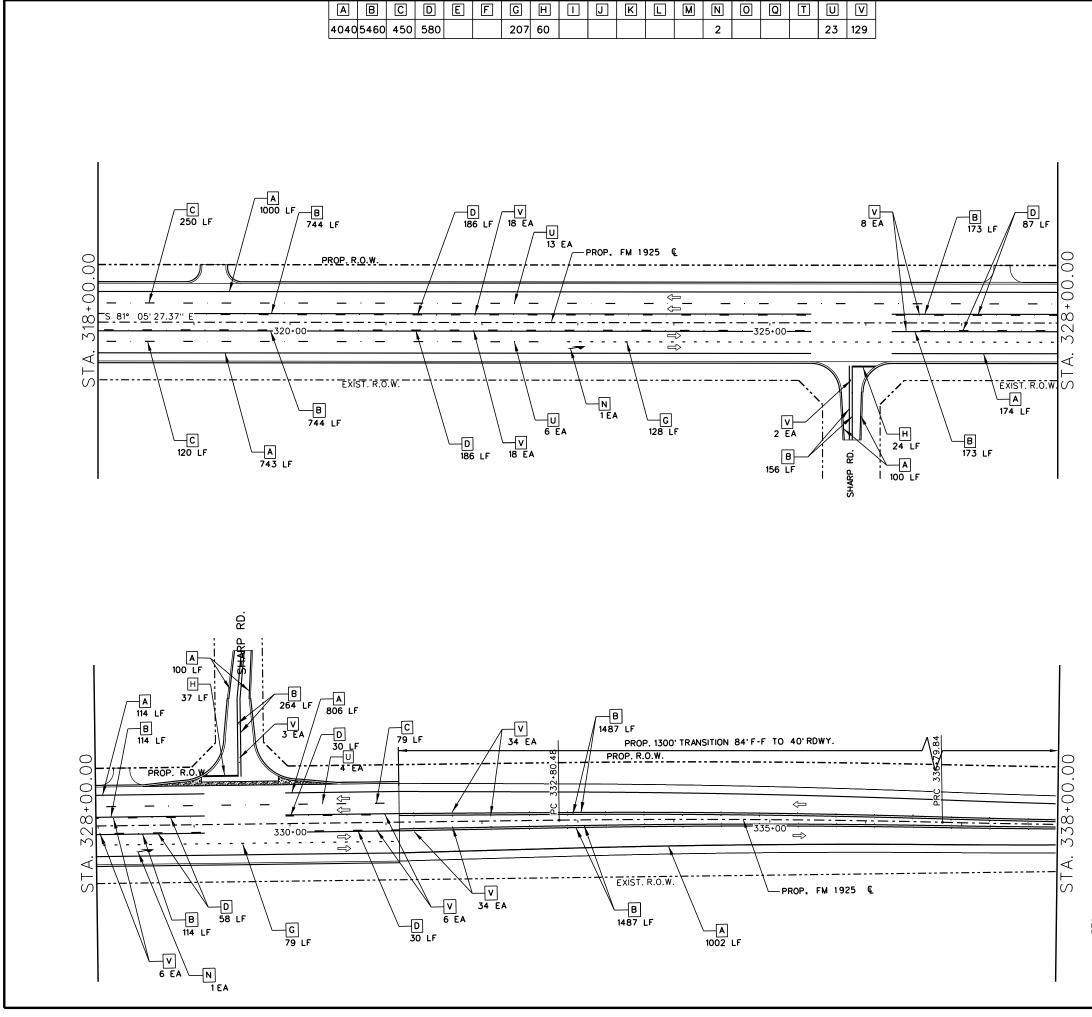












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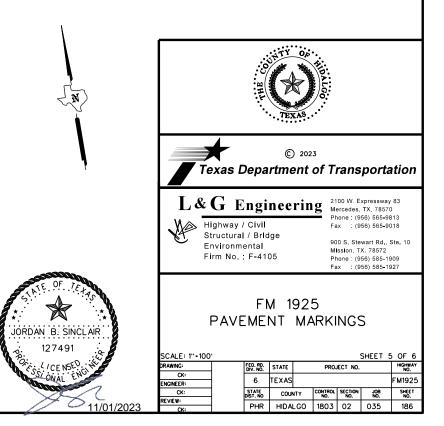
PAVEMENT MARKINGS LEGEND: TYPE I THERMOPLASTIC (ITEM 666) A 6" WHITE SOLID B 6" YELLOW SOLID C 6" WHITE BROKEN D 6" YELLOW BROKEN C 6" YELLOW BROKEN E 8" WHITE SOLID F 8" YELLOW SOLID G 6" WHITE DOTTED H 24" WHITE SOLID 24" YELLOW SOLID J 12" WHITE SOLID TYPE B (ITEM 668) K WORD "ONLY" WHITE SINGLE ARROW WHITE M DOUBLE ARROW WHITE N STR. ARROW/LEFT ARROW WHITE O STR. ARROW WHITE P SINGLE U-TURN ARROW Q RR XING SYMBOL WHITE

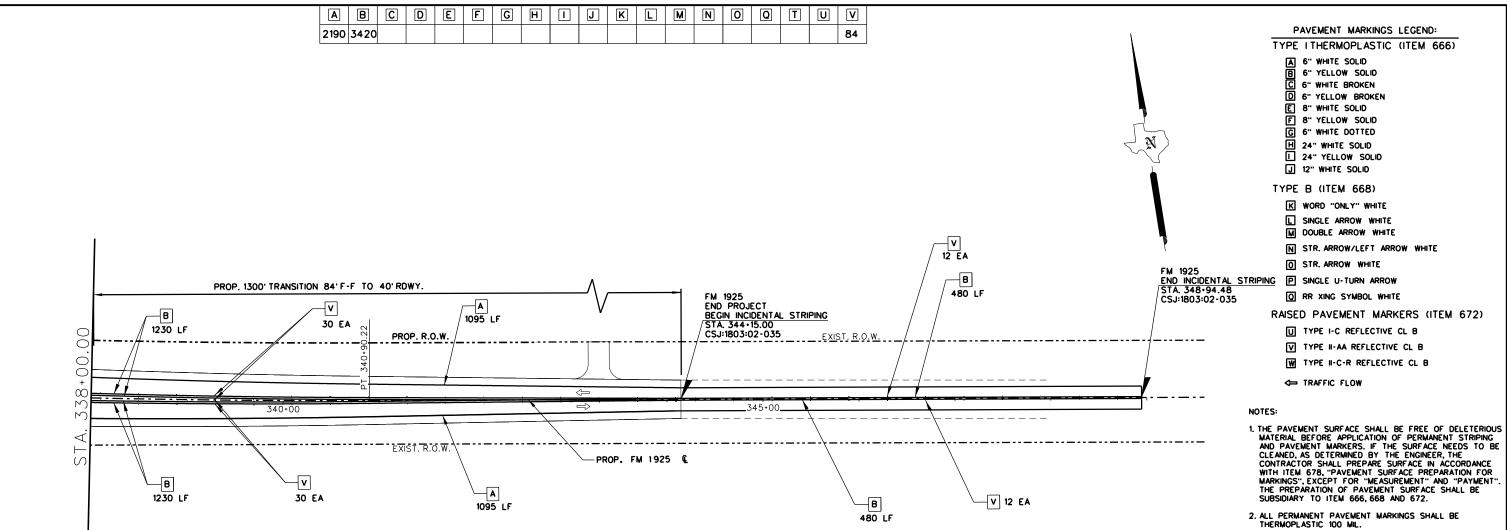
RAISED PAVEMENT MARKERS (ITEM 672)

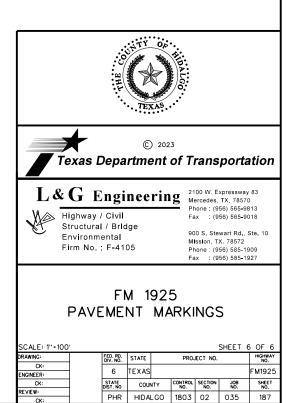
- U TYPE I-C REFLECTIVE CL B
- V TYPE II-AA REFLECTIVE CL B
- W TYPE I-C-R REFLECTIVE CL B
- TRAFFIC FLOW

NOTES:

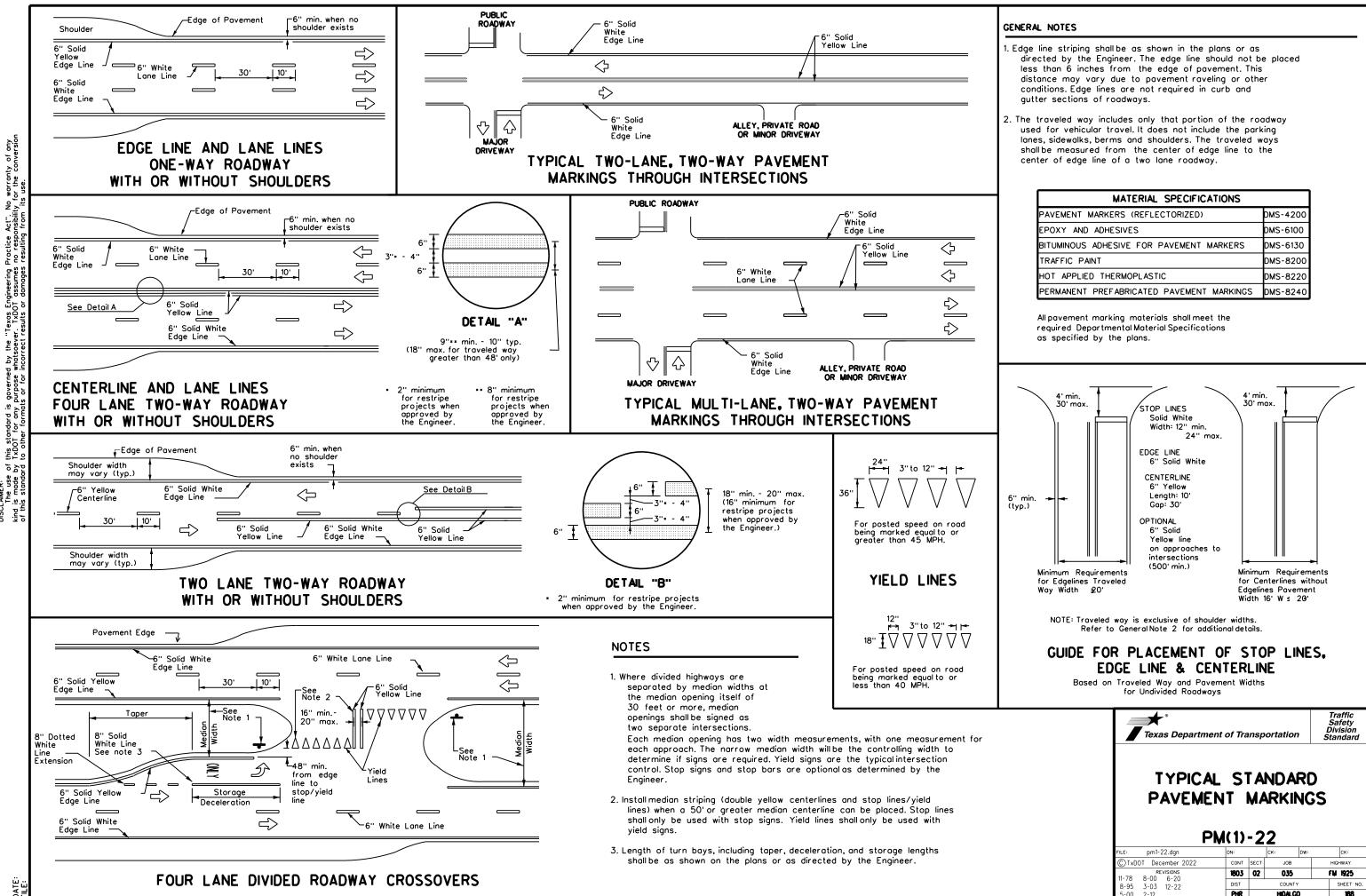
- 1. THE PAVEMENT SURFACE SHALL BE FREE OF DELETERIOUS MATERIAL BEFORE APPLICATION OF PERMANENT STRIPING AND PAVEMENT MARKERS. IF THE SURFACE NEEDS TO BE CLEANED, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL PREPARE SURFACE IN ACCORDANCE WITH ITEM 678, "PAVEMENT SURFACE PREPARATION FOR MARKINGS", EXCEPT FOR "MEASUREMENT" AND "PAYMENT". THE PREPARATION OF PAVEMENT SURFACE SHALL BE SUBSIDIARY TO ITEM 666, 668 AND 672.
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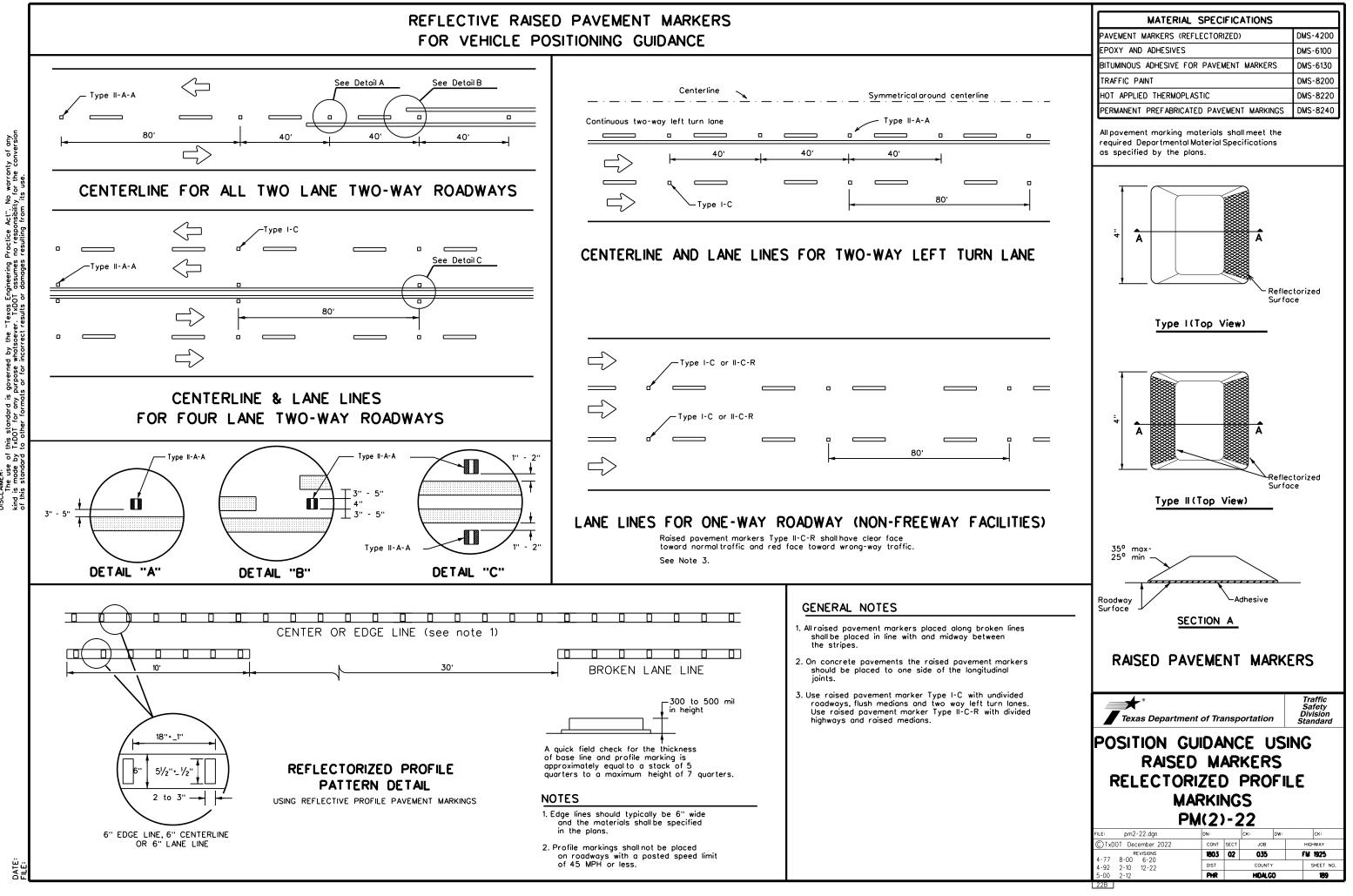




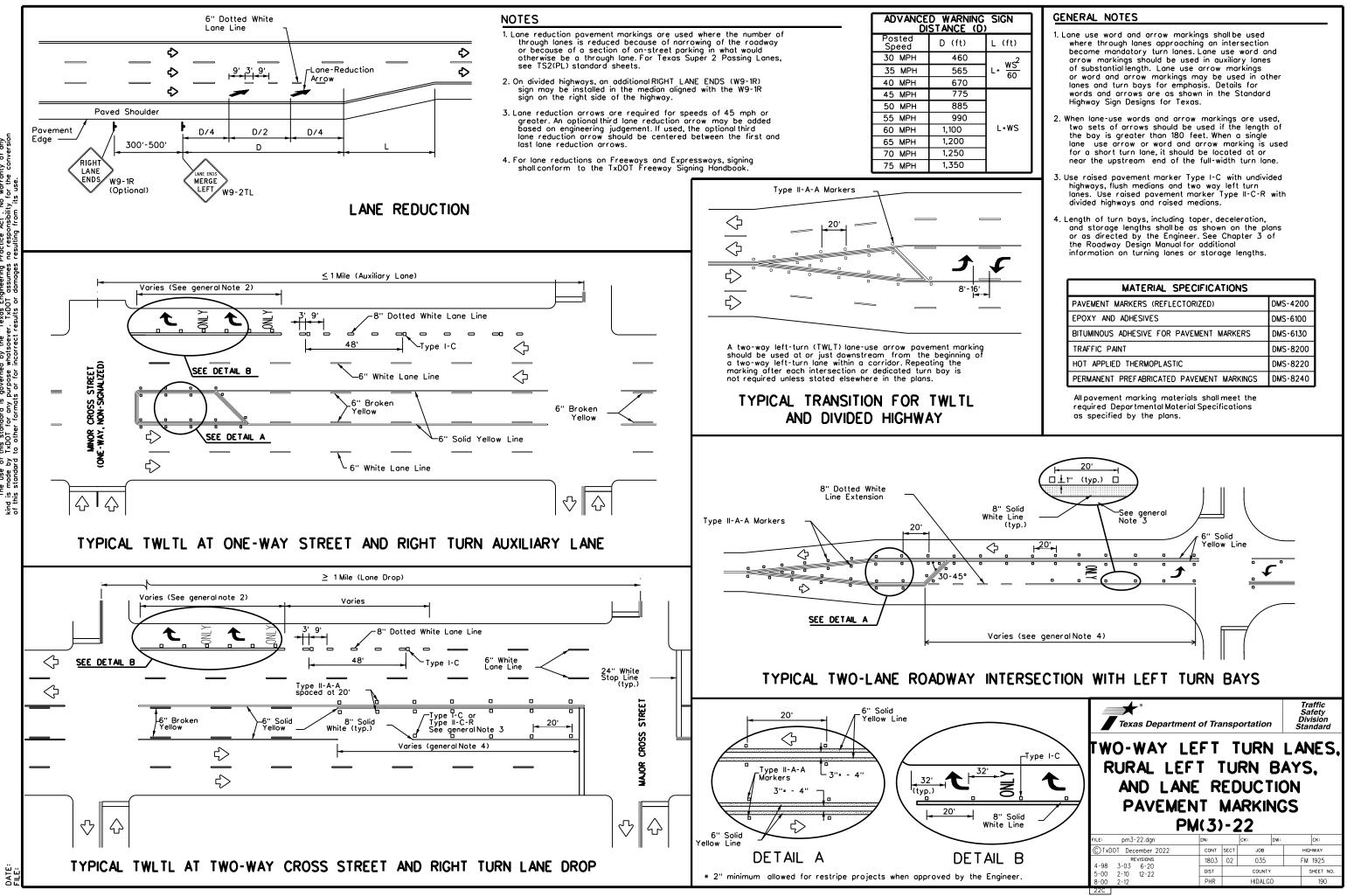


MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

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©TxDOT December 2022	CONT	SECT	JOB		HIGHWAY
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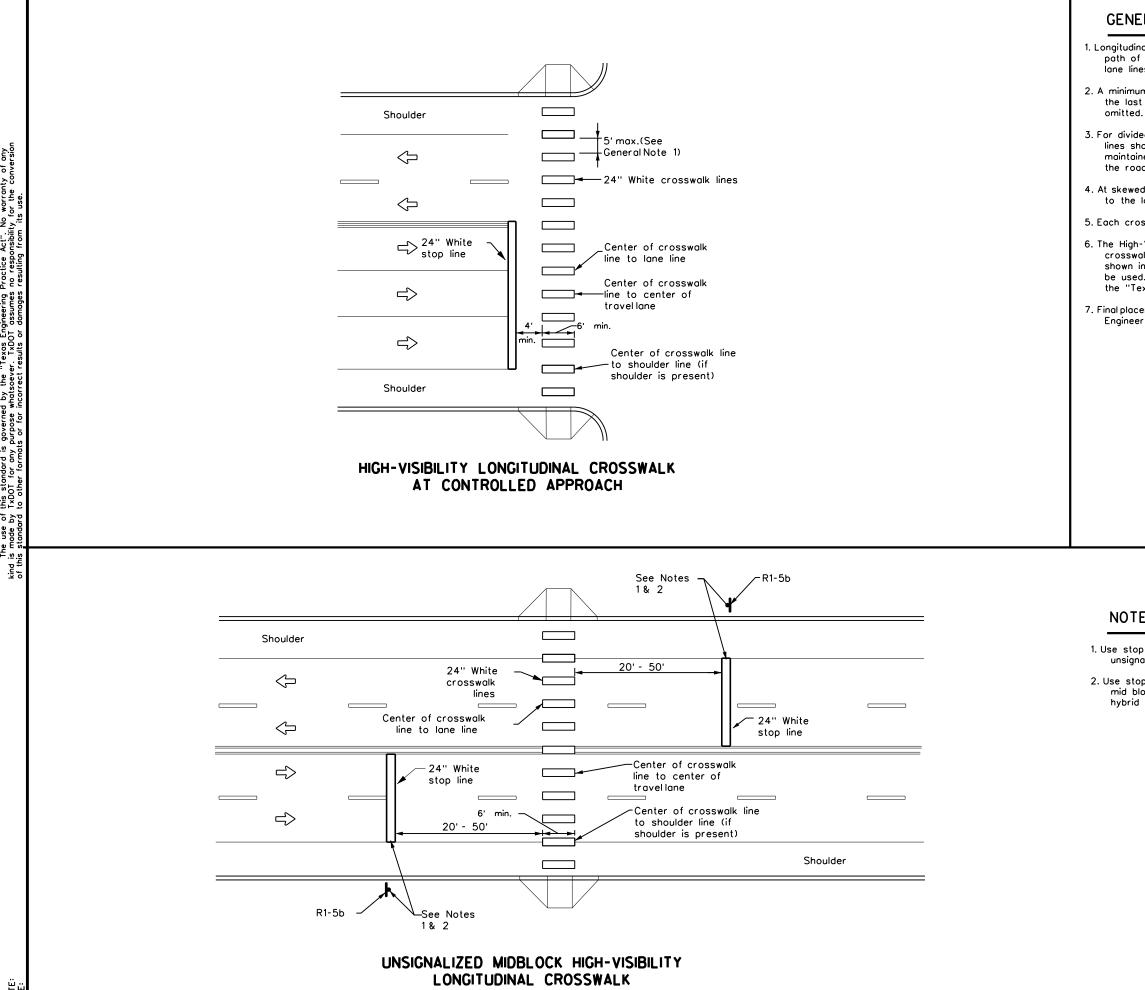


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o warranty of any for the conversion ts use Act". No Insibility f Practice no resp exas Engineering TxDOT assumes R: of this standard is governed by the ouse of this standard is governed by TxDOT for any purpose whatsoev and we to other formats or for incorrect

SIGN	GENERAL NOTES	_
$L (ft)$ $L \cdot \frac{WS^2}{60}$	<ol> <li>Lane use word and arrow markings shall be used where through lanes approaching an intersection become mandatory turn lanes. Lane use word and arrow markings should be used in auxiliary lanes of substantial length. Lane use arrow markings or word and arrow markings may be used in other lanes and turn bays for emphasis. Details for words and arrows are as shown in the Standard Highway Sign Designs for Texas.</li> </ol>	
L-WS	<ol> <li>When lane-use words and arrow markings are used, two sets of arrows should be used if the length of the bay is greater than 180 feet. When a single lane use arrow or word and arrow marking is used for a short turn lane, it should be located at or near the upstream end of the full-width turn lane.</li> </ol>	
<u> </u>	<ol> <li>Use raised pavement marker Type I-C with undivided highways, flush medians and two way left turn</li> </ol>	
	lanes. Use raised pavement marker Type II-C-R with divided highways and raised medians.	
F	4. Length of turn bays, including taper, deceleration, and storage lengths shall be as shown on the plans or as directed by the Engineer. See Chapter 3 of the Roadway Design Manual for additional information on turning lanes or storage lengths.	
	MATERIAL SPECIFICATIONS	
- I	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.	



DISCLAMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any tind is mode by TxDOT for any purpose whatsaever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:

# GENERAL NOTES

1. Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travellanes, 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

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 travelportion 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

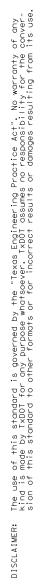
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

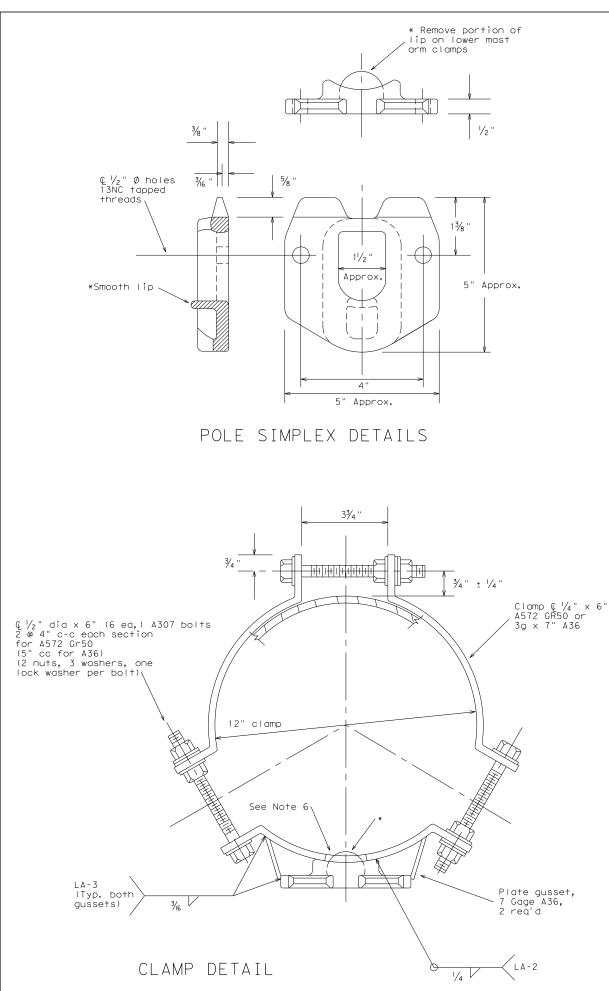
# NOTES:

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 Departme	ent of Tra	anspo	rtation	Traffic Safety Division Standard
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		-	2A	ск:
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FILE: pm4-22a.dgn © TxDOT December 2022	M(4)	-22 CF	2A 	CK: HIGHWAY



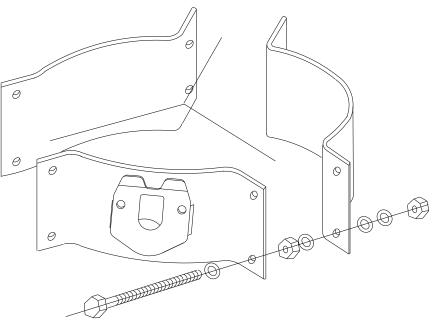


OTHER MATERIALS:

3. Nylon insert locknuts shall conform to ASTM A563.

### GENERAL NOTES:

- galvanizing process.
- 1.6 sq.ft., 12 ft. maximum arm length.



PROJECTION

1. Pole simplex shall be ASTM A27 GR65-35 or A148 GR80-50 or A576 GR1021. ASTM A576 must be suitable for forging and also meet minimum tensile of 65ksi, minimum yield of 35ksi, and a minimum elongation of 22 percent in 2 inches.

2. Welded tabs and backplates shall be ASTM A-36 steel or better.

1. Materials and fabrication shall be in accordance with Standard Sheet "MA-C" and with the details, dimensions, and weld procedures shown herein. Weld references call for preapproved weld procedures which the Fabricator must obtain prior to fabrication. In the absence of specified fabrication tolerances, dimensions shall be within the tolerances generally obtainable in normal fabrication practice.

2. All parts shall be galvanized after fabrication in accordance with Item 445, "Galvanizing". The throat of the Simplex shall be made free of all rough or sharp edges resulting from the

3. Each simplex fitting shall be supplied with 2 ASTM A325 bolts,  $\frac{1}{2}$  in. X  $\frac{1}{2}$  in. and 2 lock washers. The bolts and lock washers shall be secured to the clamp with the other hardware items. The Fabricator shall ship clamp assembly together in a single package, including all bolts, nuts, and washers required for the clamp and simplex fitting.

4. Design conforms to 1994 AASHTO "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals" and interim revisions thereto. Design Wind Speed equals 80 mph plus a 1.3 gust factor. Clamps are designed to support a 60 lb. luminaire having an effective projected area (actual area times drag coefficient) of

5. Each assembly shall consist of one upper piece simplex fitting having a smooth lip and one lower piece simplex fitting with the lip removed.

6. Approximately 2 in. diameter hole in upper mast arm clamp.



For 8.9 - 12 inch diameter Signal Poles (Two req'd for each mast arm)

Texas Department of Transportation Traffic Operations Division						
CLAMP ON FITTING ASSEMBLY FOR LUMINAIRE MAST ARM CFA-12						
				CF	A -	-12
© TxDOT	DN: KAE	3	CK: RES			- 12
REVISIONS	DN: KAE	3 SECT	1	•••	DN	
0			CK: RES	•••	DN I	CK: CAL
REVISIONS	CONT	SECT	CK: RES JOB	DW: FC	DN I	CK: CAL
REVISIONS	CONT 1803	SECT	CK: RES JOB 035	DW: FC	DN I	ck: cal highway M 1925

# GENERAL NOTES FOR ALL ELECTRICAL WORK

- 1. The location of all conduits, junction boxes, ground boxes, and electrical services is diagrammatic and may be shifted to accommodate field conditions.
- 2. Provide new and unused materials. Ensure that all materials and installations comply with the applicable articles of the National Electrical Code (NEC), TxDOT standards and specifications, National Electrical Manufacturers Association (NEMA), and are listed by Underwriters Laboratories (UL) or a Nationally Recognized Testing Lab (NRTL). NRTLs such as Canadian Standard Association (CSA), Intertek Testing Services NA Inc., or FM Approvals LLC can be considered equivalent to UL. Where reference is made to NEMA listed devices, International Electrotechnical Commission (IEC) listed devices will not be considered an acceptable equal to a NEMA listed device. Acceptable devices may have both a NEMA and IEC listing. Faulty fabrication or poor workmanship in any material, equipment, or installation is justification for rejection. Replace or reinstall rejected material or equipment at no additional cost to the Department.
- 3. Miscellaneous nuts, bolts and hardware, except for high strength bolts, may be stainless steel when plans specify galvanized, provided the bolt size is  $\frac{1}{2}$  in. or less in diameter.
- 4. Provide the following test equipment as required by the Engineer to confirm compliance with the contract and the NEC: voltmeter, armeter, megohm meter (1000 volt DC), ground resistance tester, torque wrenches, and torque screwdrivers. Ensure all equipment has been properly calibrated within the last year. Provide calibration certification to the Engineer upon request. Operate test equipment during inspection as requested by the Engineer.
- 5. Install grounding as shown on the plans and in accordance with the NEC. Ensure all metallic conduits; metal poles; luminaires; and metal enclosures are bonded to the equipment grounding conductor. Provide stranded bare copper or green insulated grounding conductors. Ground rods, connectors, and bonding jumpers are subsidiary to the various bid items.
- 6. When required by the Engineer, notify the Department in writing of materials from the Material Producers List (MPL) intended for use on each project. Prequalified materials are listed on the MPL on TxDOT's website under "Roadway Illumination and Electrical Supplies." No substitutions will be allowed for materials on this list.

### CONDUIT

# A. MATERIALS

- 1. Provide conduit, junction boxes, fittings, and hardware as per TxDOT Departmental Material Specification (DMS) 11030 "Conduit" and Item 618 "Conduit" of TxDOT's "Standard Specifications For Construction And Maintenance Of Highways, Streets, And Bridges," latest edition. Provide conduits listed under Item 618 on the MPL under "Roadway Illumination and Electrical Supplies." Provide conduit types according to the descriptive code or as shown on the plans. Do not substitute other types of conduit is called for on galvanized steel rigid metallic conduit (RMC) systems. Provide liquidtight flexible mometallic conduit (RMC) acled for on polyvinyl chloride (PVC) systems.
- 2. Provide galvanized steel RMC for all exposed conduits, unless otherwise shown on the plans. Properly bond all metal conduits.
- 3. Unless otherwise shown on the plans, provide junction boxes with a minimum size as shown in the following table, which applies to the greatest number of conductors entering the box through one conduit with no more than four conduits per box. When a mixture of conductor size is present, count the conductors as if all are of the larger size. For situations not applicable to the table, size junction boxes in accordance with NEC.

AWG	3 CONDUCTORS	5 CONDUCTORS	7 CONDUCTORS
#1	10" × 10" × 4"	12" × 12" × 4"	16" × 16" × 4"
#2	8" × 8" × 4"	10" × 10" × 4"	12" x 12" x 4"
#4	8" × 8" × 4"	10" × 10" × 4"	10" × 10" × 4"
#6	8" × 8" × 4"	8" × 8" × 4"	10" × 10" × 4"
#8	8" × 8" × 4"	8" × 8" × 4"	8" × 8" × 4"

- 4. Junction boxes with an internal volume of less than 100 cu. in. and supported by entering raceways must have threaded entries or hubs identified for the intended purpose and supported by connection of two or more rigid metal conduits. Secure conduit within 3 ft. of the enclosure or within 18 in. of the enclosure if all conduit entries are on the same side. Mechanically secure all junction boxes with an internal volume greater than 100 cu, inches.
- 5. Provide hot dipped galvanized cast iron or sand cast aluminum outlet boxes for junction boxes containing only 10 AWG or 12 AWG conductors. Do not use die cast aluminum boxes. Size outlet boxes according to the NEC.
- 6. Do not use intermediate metal conduit (IMC) or electrical metallic tubing (EMT) unless specifically required by the plan sheets. When EMT is called for, provide junction boxes made from galvanized steel sheeting, listed and approved for outdoor use, unless otherwise noted on the plans. Size all galvanized steel junction boxes in accordance with the NEC. Provide junction boxes for IMC conduit systems that meet the same requirements for junction boxes used with RMC systems.
- 7. Provide PVC junction boxes intended for outdoor use on PVC conduit systems, unless otherwise noted on the plans.

- 8. Provide PVC elbows in PVC conduit systems, unless otherwise shown on the plan a flat, high tensile strength polyester fiber pull tape for pulling conductor the PVC conduit system. When galvanized steel RMC elbows are specifically cal the plans and any portion of the RMC elbow is buried less than 18 in., ground elbow by means of a grounding bushing on a rigid metal extension. Grounding o metal elbow is not required if the entire RMC elbow is encased in a minimum o concrete. PVC extensions are allowed on these concrete encased rigid metal el PVC elbows are subsidiary to various bid items.
- 9. When required, provide High-Density Polyethylene (HDPE) conduit with factory conductors according to Item 622 "Duct Cable." At the Contractor's request an the Engineer, substitute HDPE conduit with no conductors for bored schedule 4 conduit bid under Item 618. Ensure bored HDPE substituted for PVC is schedule size PVC called for in the plans. Ensure the substituted HDPE meets the requirexcept that the conduit is supplied without factory-installed conductors. Mak the HDPE conduit to PVC (or RMC elbow when required) at the bore pit. Provide and schedule as shown on the plans. Do not extend substituted conduit into gr foundations.
- Use two-hole straps when supporting 2 in. and larger conduits. On electrical properly sized stainless steel or hot dipped galvanized one-hole standoff str the service riser conduit.

### B. CONSTRUCTION METHODS

- Provide and install expansion joint conduit fittings on all structure-mounted the structure's expansion joints to allow for movement of the conduit. In add and install expansion joint fittings on all continuous runs of galvanized ste externally exposed on structures such as bridges at maximum intervals of 150 requested by the project Engineer, supply manufacturer's specification sheet joint conduit fittings. Repair or replace expansion joint fittings that do not movement at no additional cost to the Department. Provide the method of deter amount of expansion to the Engineer upon request. Do not use LFMC or LFNC as for the required expansion conduit fittings.
- Space all conduit supports at maximum intervals of 5 ft. Install conduit space attaching metal conduit to surface of concrete structures. See "Conduit Mount on ED(2). Install conduit support within 3 ft. of all enclosures and conduit
- 3. Do not attach conduit supports directly to pre-stressed concrete beams except specifically in the plans or as approved by the Engineer.
- 4. Unless otherwise shown on the plans, jack or bore conduit placed beneath exis driveways, sidewalks, or after the base or surfacing operation has begun. Bac compact the bore pits below the conduit per Item 476 "Jacking, Boring, or Tun or Box" prior to installing conduit or duct cable to prevent bending of the c
- 5. When placing conduit in the sub-grade of new roadways, backfill all trenches material unless otherwise noted on the plans. When placing conduit in the sub new roadways, backfill all trenches with cement-stabilized base as per requir Items 110 "Excavation", 400 "Excavation and Backfill for Structures", 401 "Fl Backfill", 402 "Trench Excavation Protection", and 403 "Temporary Special Sho
- 6. Provide and place warning tape approximately 10 in. above all trenched condu
- 7. During construction, temporarily cap or plug open ends of all conduit and rac after installation to prevent entry of dirt, debris and animals. Temporary ca durable duct tape are allowed. Tightly fix the tape to the conduit opening. C conduit and prove it clear in accordance with Item 618 prior to installing an
- 8. Ensure conduit entry into the top of any enclosure is waterproof by installin hubs or using boxes with threaded bosses. This includes surface mounted safet cans, service enclosures, auxiliary enclosures and junction boxes. Grounding tight sealing hubs are not required.
- 9. Fit the ends of all PVC conduit terminations with bushings or bell end fittin install a grounding type bushing on all metal conduit terminations.
- 10. Install a bonding jumper from each grounding bushing to the nearest ground ro or equipment grounding conductor. Ensure all bonding jumpers are the same siz grounding conductor. Bonding of conduit used as a casing under roadways for d required, if the duct extends the full length through the casing.
- 11. At all electrical services, install a 6 AWG solid copper grounding electrode
- 12. Place conduits entering ground boxes so that the conduit openings are betwee from the bottom of the box. See the ground box detail on sheet ED(4).
- 13. Seal ends of all conduits with duct seal, expandable foam, or by other method the Engineer. Seal conduit immediately after completion of conductor installo tests. Do not use duct tape as a permanent conduit sealant. Do not use silico conduit sealant.
- 14. File smooth the cut ends of all mounting strut and conduit. Before installing cut ends of all mounting strut and RMC (threaded or non-threaded) with zinc r more zinc content) to alleviate overspray. Use zinc rich paint to touch up go as allowed under Item 445 "Galvanizing." Do not paint non-galvanized material paint as an alternative for materials required to be galvanized.

ans. Use only ors through alled for in and the RMC of the rigid of 2 in. of elbows. RMC or	
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ELECTRICAL DETAILS CONDUITS & NOTES						
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# ELECTRICAL CONDUCTORS

# A. MATERIAL INFORMATION

- 1. Provide Type XHHW insulated conductors in accordance with Departmental Material Specification (DMS)11040 "Conductors" and Item 620 "Electrical Conductors." Provide conductors as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies" Item 620. Color code insulated conductors in conformance with the NEC. Identify grounded (neutral) conductors with white insulation. Identify grounding conductors (ground wires) with green insulation or bare conductors. Identify ungrounded (hot) conductors with any color insulation except green, white, or gray. Keep color scheme consistent throughout the wiring system. Identify conductors 6 American Wire Gauge (AWG) and smaller by continuous color jacket. Identify electrical conductors 4 AWG and larger by continuous color jacket or by colored tape. When identifying conductors with colored tape, mark at least 6 in. of the conductor's insulation with half laps of tape.
- 2. Provide a solid copper 6 AWG grounding electrode conductor to bond the electrical service equipment to the concrete encased grounding electrode or the ground rod at the service location. Connect the grounding electrode conductor to the ground rod with a UL listed connector in accordance with DMS 11040. Connect the grounding electrode conductor to the concrete encased grounding electrode as shown in the plans.
- 3. Where two or more circuits are present in one conduit or enclosure, permanently identify the conductors of each branch circuit by attaching a non-metallic tag around both circuit conductors at each accessible location. Provide tags with two straps, large enough to indicate circuit number, letter, or other identification as shown in the plans. Print circuit identification on the tag with a permanent marker.
- 4. Use listed compression or screw type pressure connectors, terminal blocks, or split bolt connectors for splicing as specified in DMS 11040. Use hot melt adhesive tape to fill the gap and seal the ends of heat shrink tubing. Provide UL listed gel-filled insulating splice covers. Splicing materials, insulating materials, breakaway disconnects, splice covers, and fuse holders are subsidiary to various bid items.

# B. CONSTRUCTION METHODS

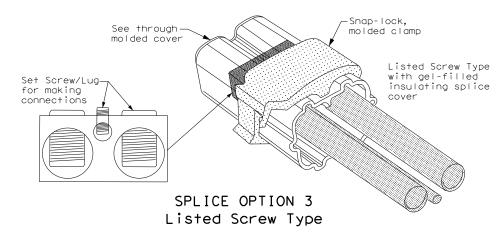
- 1. Use only a flat, high tensile strength polyester fiber pull tape for pulling conductors through the conduit system. After installing conductors in conduit, perform conductor pull test. If a conductor cannot be freely pulled, make any needed alterations or repairs at no additional cost to the department. Perform insulation resistance tests in accordance with Item 620. Coordinate with the Engineer to witness the tests.
- 2. Leave 2 ft. minimum, 3 ft. maximum length for each conductor up to the splice in ground boxes. Leave 3 ft. minimum, 4 ft. maximum length of conductor in ground boxes when pulled through with no splice. Leave 1 ft. minimum, 1.5 ft. maximum length of conductor at enclosures, weatherheads and pole bases.
- 3. Make splices only in junction boxes, ground boxes, pole bases, or electrical enclosures and use only listed compression or screw type pressure connectors, terminal blocks, or split bolt connectors. Insulate splices with heavy wall heat shrink tubing or gel-filled insulating splice covers to provide a watertight splice. Overlap conductor insulation with heat shrink tubing a minimum of 2 in. past both sides of the splice. Where heat shrink tubing may not shrink sufficiently to provide a watertight seal around the individual conductors, prior to heating the tubing, increase the diameter of the conductor insulation using hot melt adhesive tape to provide a watertight seal between the individual conductors and the heat shrink tubing. Ensure the tape extends past the heat shrink tubing. Use hot melt adhesive tape to fill the gap and seal the ends of heat shrink tubing. Heat shrink tubing that appears to have been burned, or overheated, is considered defective and must be replaced.
- 4. Size and install gel-filled insulating splice covers according to manufacturer's specifications when used in place of heat shrink tubing.
- 5. Wire nuts with factory applied waterproof sealant may be used for 8 AWG or smaller conductors in above ground junction boxes, but not in pole bases or ground boxes. Install wire nuts in an upright position to prevent the accumulation of water.
- 6. Support conductors in illumination poles with a J-hook at the top of the pole.
- 7. When terminating conductors, remove the insulation and jacketing material without nicking the individual strands of the conductor. Conductors with nicked individual conductor strands or removed strands will be considered damaged.
- 8. Replace conductors and cables that are damaged beyond repair or that fail an insulation resistance test at no additional cost to the department.
- 9. Do not repair damaged conductors with duct tape, electrical tape, or wire nuts. Use only approved splicing methods.
- 10. Do not terminate more than one conductor under a sinale connector, unless the connector is rated for multiple conductors. Do not exceed the pressure connector's listing for maximum number and size of conductors allowed.
- 11. Install breakaway connectors on conductors bid under Item 620 whenever those conductors pass through a breakaway support device. Follow manufacturer's instructions when terminating conductors to breakaway connectors. Properly torque threaded connections. Proper terminations are critical to the safe operation of breakaway devices. Trim waterproofing boots on breakaway connectors to fit snugly around the conductor to ensure waterproof connection. Only one conductor may enter a single opening in a boot. Provide waterproof boots with the correct number of openings. Leave unused openings factory sealed. Use prequalified breakaway connectors as shown on the MPL.

- 12. Provide and install a separate stranded equipment grounding conductor (EGC) in all conduits that contain circuit wiring of 50 volts or more. Unless shown elsewhere, size the EGC to be the same size as the largest current carrying conductor contained in the conduit. Ensure all EGCs are bonded together at every accessible location. For traffic signal installations, provide a minimum size 8 AWG EGC. The EGC is paid for under Item 620.
- C. TEMPORARY WIRING
- 1. Install temporary conductors and electrical equipment in accordance with the NEC article "Temporary Installations" and Department standard sheets.
- 2. Provide a ground fault circuit interrupter (GFCI) for power outlets for portable electrical equipment, power tools, ice machines, ice storage bins and refrigerators located outdoors at grade. GFCI may be any one of following: molded cord and plug set, receptacle, or circuit breaker type.
- 3. Use listed wire nuts with factory applied sealant for temporary wiring where approved.
- 4. Enclose conductor splices within a listed enclosure or ground box, or ensure the splices are more than 10 ft. above grade vertically and more than 5 ft. horizontally from any metal structure. Where installing temporary conductors in areas subject to vehicle traffic or mobile construction equipment, ensure the vertical clearance to ground is at least 18 ft, when measured at the lowest point. Ground messenger wires that support power conductors in conformance with the NEC.
- 5. Protect and when necessary repair any existing electrical conduits uncovered during the construction process in a timely manner and in conformance with the NĔC.

# GROUND RODS & GROUNDING ELECTRODES

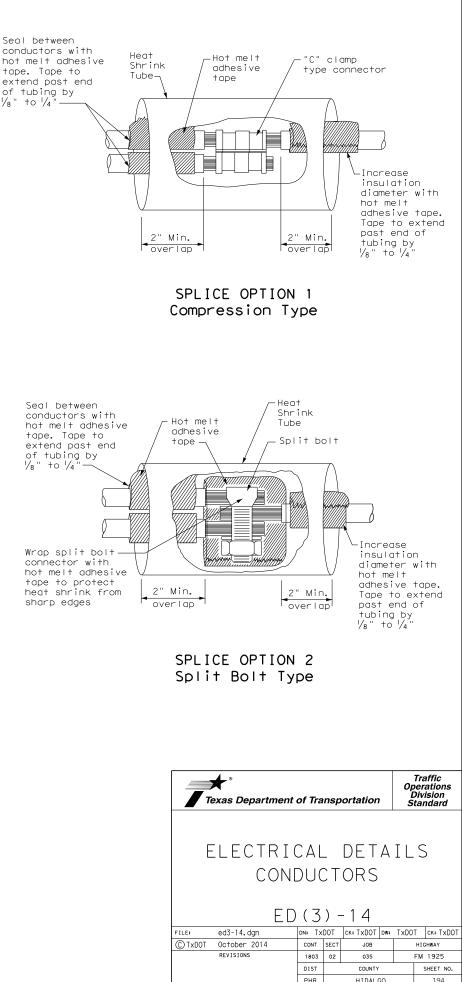
### A. MATERIAL INFORMATION

- 1. Provide and install a grounding electrode at electrical services. Provide around rods according to DMS 11040 and the plans. Larger diameter or longer length rods may be called for in some specific locations, see the individual plans sheets. Concrete encased grounding electrodes may be called for in specific locations including electrical service, see individual plan sheets.
- B. CONSTRUCTION METHODS
- 1. Furnish auxiliary ground rods for lightning protection and install in soil, concrete, or both, as called for in the plans. For ground rods installed in concrete, ensure the connection of the conductor to the ground rod is readily accéssible for inspection or repairs. For ground rods installed in soil, ensure that the upper end is between 2 to 4 in. below finished grade.
- 2. Do not place around rods in the same drilled hole as a timber pole.
- 3. Install ground rods so the imprinted part number is at the upper end of the rod.
- 4. Remove all non-conductive coatings such as concrete splatter from the rod at the clamp location.
- 5. Route all conductors as short and straight as possible for connection to lightning protection ground rods. When a bend is required, ensure a minimum radius bend of four inches for these conductors.
- 6. Unless otherwise called for in the plans, protect grounding electrode conductors with non-metallic conduit. When protecting grounding electrode conductors with metal conduit, provide and install a grounding type bushing and properly sized bonding jumper on each end of the metal conduit.
- 7. Written authorization is required before installing a ground rod in a horizontal trench for rocky soil or a solid rock bottom.

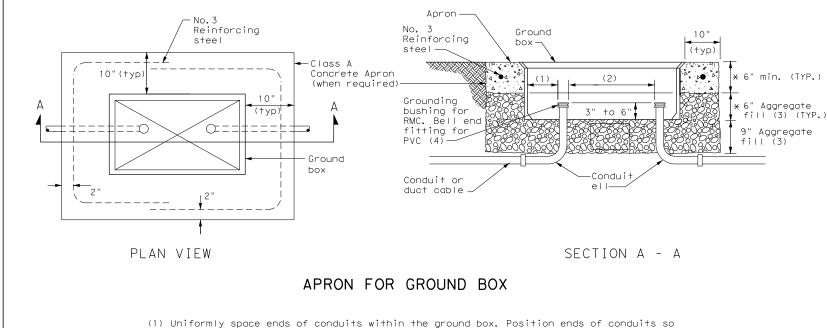


1/8" to 1/4

Seal between conductors with tape. Tape to extend past end of tubing by 1/8" to 1/4



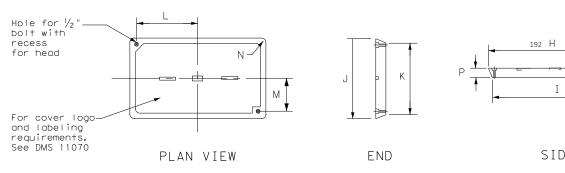
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- that ground box walls do not interfere with the installation of grounding bushings or bell end fittings.
- (2) Maintain sufficient space between conduits to allow for proper installation of bushing.
- (3) Place aggregate under the box, not in the box. Aggregate should not encroach on the interior volume of the box.
- (4) Install a grounding bushing on the upper end of all RMC terminating in a ground box. Ground RMC elbows when any part of the elbow is less than 18 in. below the bottom of the ground box. Install a PVC bushing or bell end fitting on the upper end of all PVC conduits terminating in a ground box.

GROU	ND BOX DIMENSIONS
TYPE	OUTSIDE DIMENSIONS (INCHES) (Width x Length X Depth)
А	12 X 23 X 11
В	12 X 23 X 22
С	16 X 29 X 11
D	16 X 29 X 22
E	12 X 23 X 17

GROUND BOX COVER DIMENSIONS								
DIMENSIONS (INCHES)								
TYPE	Н	Ι	J	К	L	М	Ν	Ρ
А, В & Е	23 1/4	23	13 3⁄4	13 1/ <sub>2</sub>	9 7/8	5 <sup> </sup> /8	1 3/8	2
C & D	30 ½	30 <sup> </sup> /4	17 🏒	17 <sup> </sup> /4	13 <sup> </sup> /4	6 ¾	1 3/8	2



# GROUND BOX COVER

# GROUND BOXES

# A. MATERIALS

- Item 624 "Ground Boxes."
- and Electrical Supplies, " Item 624.

- B. CONSTRUCTION METHODS
- aaareaate.
- boxes.

- Do not use silicone caulk as a sealant.
- together and to the ground rod with listed connectors.
- below arade.
- fully describing the work required.

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1. Provide polymer concrete ground boxes measuring 16x30x24 in. (WxLxD) or smaller in accordance with Departmental Material Specification (DMS) 11070 "Ground Boxes" and

2. Provide Type A, B, C, D, and E ground boxes as shown in the plans, and as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination

3. Ensure ground box cover is correctly labeled in accordance with DMS 11070.

4. Provide larger ground boxes in accordance with Item 624 and as shown in the plans.

1. Remove all gravel and dirt from conduit. Cap all conduits prior to placing aggregate and setting ground box. Provide Grade 3 or 4 coarse aggregate as shown on Table 2 of Item 302 "Aggregates for Surface Treatments." Ensure aggregate bed is in place and at least 9 inches deep, prior to setting the ground box. Install ground box on top of

2. Cast ground box aprons in place. Reinforcing steel may be field bent. Ensure the depth of concrete for the apron extends from finished grade to six inches below the finished grade. Ground box aprons, including concrete and reinforcing steel, are subsidiary to ground boxes when called for by descriptive code.

3. Keep bolt holes in the box clear of dirt. Bolt covers down when not working in ground

4. Install all conduits and ells in a neat and workmanlike manner. Uniformly space conduits so grounding bushings and bell end fittings can easily be installed.

5. Temporarily seal all conduits in the ground box until conductors are installed.

6. Permanently seal conduits immediately after the completion of conductor installation and pull tests. Permanently seal the ends of all conduits with duct seal, expandable foam, or other method as approved. Do not use duct tape as a permanent conduit sealant.

7. When a ground rod is present in a ground box, bond all equipment grounding conductors

8. When a type B or D ground box is stacked to meet volume requirements, it is allowable to cut an appropriately sized hole for conduit entry in the side wall at least 18 inches

9. If an existing ground box in the contract has a metal cover, bond the cover to the equipment grounding conductor with a 3 ft. long stranded bonding jumper the same size as the grounding conductor. The bonding jumper is subsidiary to various bid items. Verify existing ground boxes with metal covers are shown on the plans, with notes

10. If other ground boxes with metal covers are within the project limits but are not part of the contract, the Engineer may direct the Contractor to bond the metal covers, identifying the specific boxes in writing. This work will be paid for separately.

11. Bond metal ground box covers to the grounding conductor with a tank ground type lug.

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# ELECTRICAL SERVICES NOTES

- 1. Provide new materials. Ensure installation and materials comply with the applicable provisions of the National Electrical Code (NEC) and National Electrical Manufacturers Association (NEMA) standards. Ensure material is Underwriters Laboratories (UL) listed. Provide and install electrical service conduits, conductors, disconnects, contactors, circuit breaker panels, and branch circuit breakers as shown on the Electrical Service Data chart in the plans. Faulty fabrication or poor workmanship in material, equipment, or installation is justification for rejection. Where manufacturers provide warranties and guarantees as a customary trade practice, furnish these to the State.
- 2. Provide electrical services in accordance with Electrical Details standard sheets, Departmental Material Specification (DMS) 11080 "Electrical Services, "DMS 11081 "Electrical Services-Type A," DMS 11082 "Electrical Services-Type C," DMS 11083 "Electrical Services-Type D," DMS 11084 "Electrical Services-Type T," DMS 11085 "Electrical Services-Pedestal (PS)", and Item 628 "Electrical Services" of the Standard Specifications. Provide electrical service types A, C, and D, as listed on the Material Producers List (MPL) on the Department web site under "Roadway Illumination and Electrical Supplies," Item 628. Provide other service types as detailed on the plans. detailed on the plans.
- 3. Provide all work, materials, services, and any incidentals needed to install a complete electrical service as specified in the plans.
- 4.Coordinate with the Engineer and the utility provider for metering and compliance with utility requirements. Primary line extensions, connection charges, meter charges, and other charges by the utility company to provide power to the location are paid for in accordance with Item 628. Get approval for the costs associated with these charges prior to engaging the utility company to do the work. Consult with the utility provider to determine costs and requirements, and coordinate the work as approved.
- 5. The enclosure manufacturer will provide Master Lock Type 2 with brass tumblers keyed #2195 for all custom electrical enclosures. Installing Contractor is to provide Master Lock #2195 Type 2 with brass tumblers for "off the shelf" enclosures. Master Lock #2195 keys and locks become property of the State. Unless otherwise approved, do not energize electrical service equipment until locks are installed.
- 6.Enclosures with external disconnects that de-energize all equipment inside the enclosure do not need a dead front trim. Protect incoming line terminations from incidental contact as required by the NEC.
- 7.When aglyanized is specified for nuts, screws, bolts or miscellaneous hardware. stainless steel may be used.
- 8. Provide wiring and electrical components rated for 75°C. Provide red, black, and white colored XHHW service entrance conductors of minimum size 6 American Wire Gauge (AWG). Identify size 6 AWG conductors by continuous color jacket. Identify electrical conductors sized 4 AWG and larger by continuous color jacket or by colored tape. Mark at least 6 inches of the conductor's insulation with half laps of colored tape, when identifying conductors. Ensure each service entrance conductor exits through a separately bushed non-metallic opening in the weatherhead. The lengths of the conductors outside the weatherhead are to be 12 inches minimum, 18 inches maximum, or as required by utility.
- 9.All electrical service conduit and conductors attached to the electrical service including the riser or the elbow below ground are subsidiary to the electrical service. For an underground utility feed, all service conduit and conductors after the elbow, including service conduit and conductors for the utility pole riser when furnished by the Contractor, will be paid for separately.
- 10.Provide rigid metal conduit (RMC) for all conduits on service, except for the  $\frac{1}{2}$  in. PVC conduit containing the electrical service grounding electrode conductor. Size the service entrance conduit as shown in the plans. Ensure conduit for branch circuit entry to enclosure is the same size as that shown on the layout sheets for branch circuit conduit. Extend all rigid metal conduits a minimum of 6 inches underground and then couple to the type and schedule of the conduit shown on the layout for that particular branch circuit. Install a grounding bushing on the RMC where it terminates in the service enclosure.
- 1. Use of liquidtight flexible metal conduit (LFMC) is allowed between the meter and service enclosure when they are mounted 90 to 180 degrees to each other. Size the LFMC the same size as service entrance conduit. LFMC must not exceed 3 feet in length. Strap LFMC within 1 foot of each end. LFMC less than 12 inches in length need not be strapped. Each end of LFMC must have a grounding bushing or be terminated with a grounding fitting. The LFMC must contain a grounded (neutral) conductor. Ensure any bend in LFMC never exceeds 180 degrees. A pull test is required on all installed conductors, with at least six inches of free conductor movement demonstrated to the satisfaction of the Engineer.
- 12.Ensure all mounting hardware and installation details of services conform to utility company specifications.
- 13. For all electrical service enclosures listed under Item 628 on the MPL, the UL 508 enclosure manufacturers will prepare and submit a schematic drawing unique to each service. Before shipment to the job site, place the applicable laminated schematic drawings and the laminated plan sheet showing the electrical service data chart used to build the enclosure in the enclosure's data pocket. The installing contractor will copy and laminate the actual project plan sheets detailing all equipment and branch circuits supplied by that service. The laminated plan sheets are to be placed in the service enclosure's document pocket. Reduce 11 in. x 17 in. plan sheets to  $8 \frac{1}{2}$  in. x 11 in. before laminating. If the installation differs from the plan sheets, the installing contractor is to redline plan sheets before laminating.
- 14.When providing an "Off The Shelf" Type D or Type T service, provide laminated plan sheets detailing equipment and branch circuits supplied by that service. Reduce 11 in. x 17 in. plan sheets to 8  $\frac{1}{2}$  in. x 11 in before laminating. Deliver these drawings before completion of the work to the Engineer, instead of placing in enclosure that has no door pocket.
- 15.Do not install conduit in the back wall of a service enclosure where it would penetrate the equipment mounting panel inside the enclosure. Provide grounding bushings on all metal conduits, and terminate bonding jumpers to grounding bus. Grounding bushings are not required when the end of the metal conduit is fitted with a conduit sealing hub or threaded boss, such as a meter base hub.

### SERVICE ASSEMBLY ENCLOSURE

1. Provide threaded hub for all conduit entries into the top of enclosure.

- 2. Type galvanized steel (GS) enclosures may be used for Type C panelboards and for Type D and T services that do not use an enclosure mounted photocell or lighting contactor. Provide GS enclosures in accordance with DMS 11080, 11082, 11083, and 11084.
- 3. Provide aluminum (AL) and stainless steel (SS) enclosures for Types A, C, and D in accordance with DMS 11080, 11081, 11082, 11083, and 11084. Do not paint stainless steel.
- 4. Provide pedestal service (PS) enclosures in accordance with ED(9) and DMS 11080 and 11085. Do not provide GS pedestal services. If GS is shown in the PS descriptive code, provide an AL enclosure.

			* ELE	CTRICAL	SERV	ICE DATA	4					
Elec. Service ID	Plan Sheet Number	Electrical Service Description	Service Conduit **Size	Service Conductors No./Size	Safety Switch Amps	Main Ckt. Bkr. Pole/Amps	Two-Pole Contractor Amps	Panelbd/ Loadcenter Amp Rating	Branch Circuit ID	Branch Ckt. Bkr. Pole/Amps	Branch Circuit Amps	KVA Load
SB 183	289	ELC SRV TY A 240/480 100(SS)AL(E)SF(U)	2"	3/#2	100	2P/100	100	N/A	Lighting NB	2P/40	26	28.1
									Lighting SB	2P/40	25	
									Underpass	1P/20	15	
NB Access	30	ELC SRV TY D 120/240 060(NS)SS(E)TS(0)	1 1/4 "	3/#6	N/A	2P/60		100	Sig. Controller	1P/30	23	5.3
							30		Luminaires	2P/20	9	
									CCTV	1P/20	3	
2nd & Main	58	ELC SRV TY T 120/240 000(NS)GS(N)SP(0)	1 1/4 "	3/#6	N/A	NZA	N/A	70	Flashing Beacon 1	1P/20	4	1.0
									Flashing Beacon 2	1P/20	4	

\* Example only, not for construction. All new electrical services must have electrical service data chart specific to that service as shown in the plans.

\*\* Verify service conduit size with utility. Size may change due to utility meter requirements. Ensure conduit size meets the National ELectrical Code.

### EXPLANATION OF ELECTRICAL SERVICE DESCRIPTIVE CODE

ELEC SERV IY $x \times x $
Schematic Type
Service Voltage V / V
Disconnect Amp Rating 000 indicates main lug only/ Typically Type T
(SS) = Safety Switch Ahead of Meter-Check with Utility (NS) = No safety Switch Ahead of Meter-Check with Utility
Enclosure Type GS= Galvanized steel("off the shelf") SS= Stainless steel(Custom Enclosure)See MPL AL= Aluminum (Custom Enclosure)See MPL
Photocell Mounting Location (E) = Inside Service/Enclosure Mounted (T) = Top of pole (L) = Luminaire mounted (N) = None/No Photocell or Lighting Contactor Required
Service Support Type GC= Granite concrete OC= Other concrete TP= Timber pole SP= Steel pole SF= Steel frame OT= Pole by others or paid for separately EX= Existing pole TS= Service on traffic signal pole PS= Pedestal Service
O= Overhead Service Feed from Utility U= Underground Service Feed from Utility

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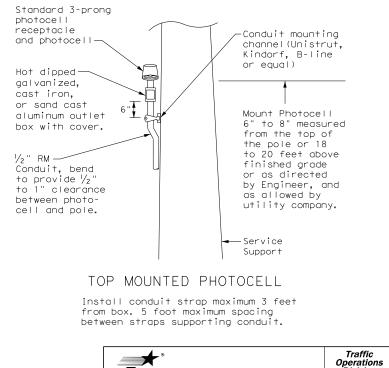
# MAIN DISCONNECT & BRANCH CIRCUIT BREAKERS

1. Field drill flange-mounted remote operator handle if needed, to ensure handle is lockable in both the "On" and "Off" positions.

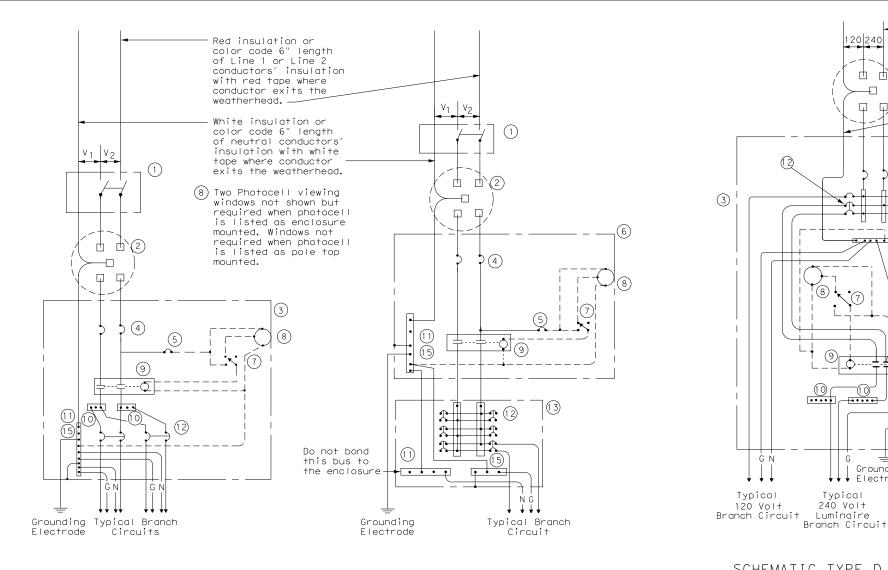
2. When the utility company provides a transformer larger than 50 KVA. verify that the available fault current is less than the circuit breaker's ampere interrupting capacity (AIC) rating and provide documentation from the electric utility provider to the Engineer.

## PHOTOELECTRIC CONTROL

1. Provide photocell as listed on the MPL. Move, adjust, or shield the photocell from stray or ambient night time light to ensure proper operation. Mount photocell facing north when practical. Mount top of pole photocells as shown on Top Mounted Photocell Detail.



Texas Department	Traffic Operations Division Standard						
ELECTRICAL DETAILS SERVICE NOTES & DATA ED(5)-14							
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© TxDOT October 2014	CONT	SECT	JOB		HIGHWAY		
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# SCHEMATIC TYPE A THREE WIRE

SCHEMATIC TYPE C THREE WIRE

SCHEMATIC TYPE D - CUSTOM 120/240 VOLTS - THREE WIRE

120 240

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-Bonding

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Grounding

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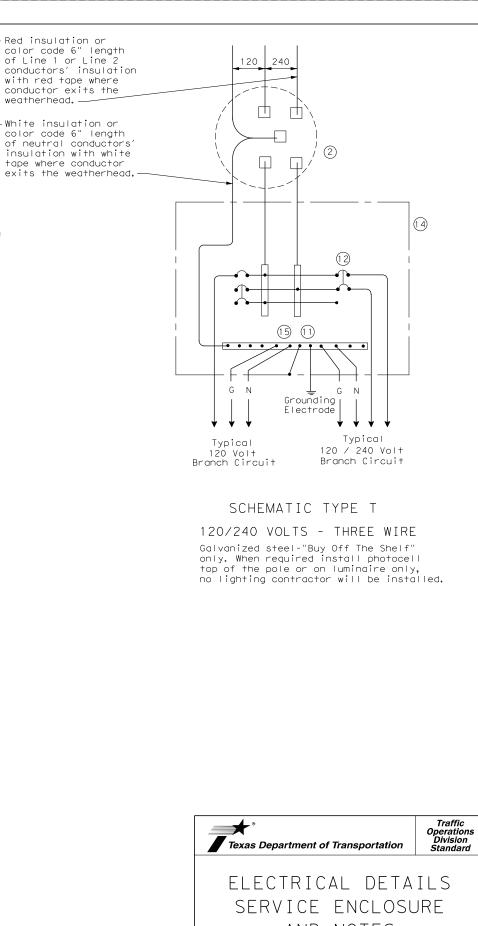
Typical 120 / 240 Volt Branch Circuit

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	SCHEMATIC LEGEND
1	Safety Switch (when required)
2	Meter (when required-verify with electric utility provider)
3	Service Assembly Enclosure
4	Main Disconnect Breaker (See Electrical Service Data)
5	Circuit Breaker, 15 Amp (Control Circuit)
6	Auxiliary Enclosure
7	Control Station ("H-O-A" Switch)
8	Photo Electric Control (enclosure- mounted shown)
9	Lighting Contactor
10	Power Distribution Terminal Blocks
11	Neutral Bus
12	Branch Circuit Breaker (See Electrical Service Data)
13	Separate Circuit Breaker Panelboard
14	Load Center
15	Ground Bus

	WIRING LEGEND
	Power Wiring
	Control Wiring
N	Neutral Conductor
G	Equipment grounding conductor-always required
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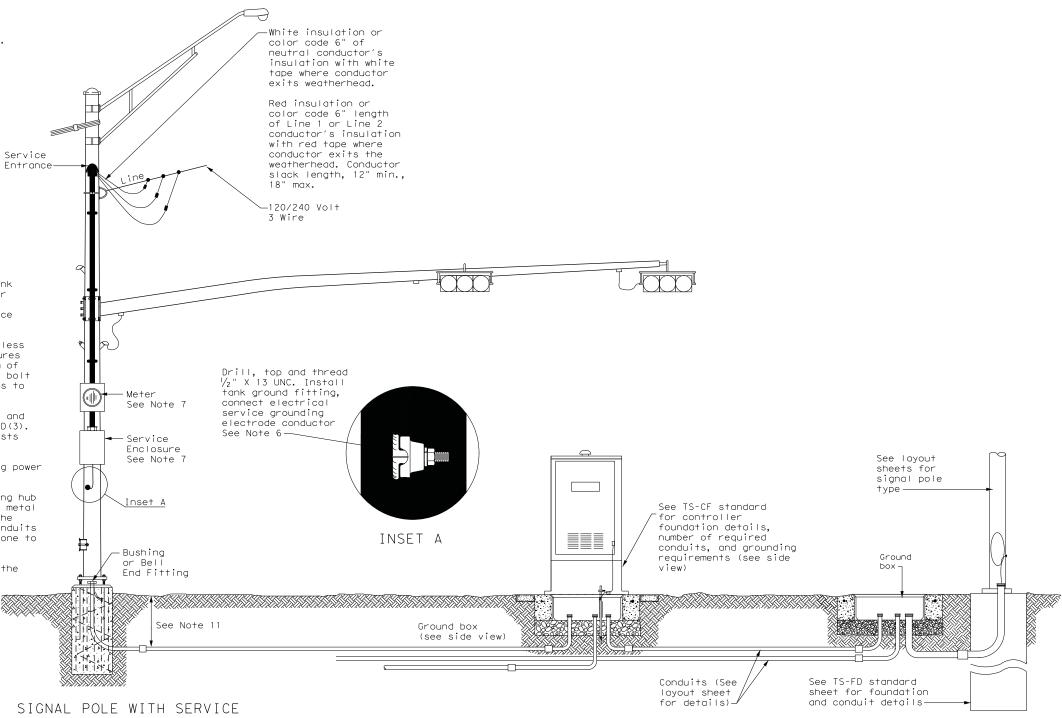


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- 1. Do not pass luminaire conductors through the signal controller cabinet.
- 2. Include an equipment grounding conductor in all conduits throughout the electrical system. Bond all exposed metal parts to the grounding conductor.
- 3. Provide roadway luminaires, when required, in accordance with the material and construction sections of Item 610, "Roadway Illumination Assemblies," except for performance testing of luminaires. Test installed roadway luminaires for proper operation as a part of the associated traffic signal system test.
- 4. If internally illuminated street name signs are approved for use, ground the fixture to the pole with a 12 AWG green XHHW conductor.
- 5. Bond anchor bolts to rebar cage in two locations using #3 bars or 6 AWG stranded copper conductors. Use listed mechanical connectors rated for embedment in concrete. See TXDOT standard TS-FD for further details.
- 6. Drill and tap signal poles for  $\frac{1}{2}$  in. X 13 UNC tank ground fitting. Provide and install tank ground fitting 4 in. to 6 in. directly below electrical service enclosure. Provide properly sized hole through the bottom of the enclosure for the service grounding electrode conductor. Connect the electrical service grounding electrode conductor to the tank ground fitting. Ensure electrical service grounding electrode conductor is as short and straight as possible from the enclosure to the tank ground fitting. See Inset A detail for further information. Size service entrance conduit and branch circuit conduit as shown in the plans.
- 7. Mount electrical service enclosure and meter to signal pole with stainless steel bands. Ensure bands are a minimum width of  $\frac{3}{4}$  in. Secure enclosures to bands using two-bolt brackets. Install brackets near top and bottom of each enclosure. Install properly sized stainless steel washers on each bolt in the enclosure. Band or drill and tap properly sized stand-off straps to signal pole for attaching conduit.
- 8. Conduct pull tests and insulation resistance tests on all illumination and any for power conductors as required in Item 620 "Electrical Conductors" and ED(3). To prevent electronics damage, do not conduct insulation resistance tests on traffic signal cables after termination.
  - 9. Lock all enclosures and bolt down all ground box covers before applying power to the signal installation.
- 10. Terminate conduits entering the top of enclosures with a conduit-sealing hub or threaded boss such as meter hub. Install a grounding bushing on all metal conduits not connected to conduit-sealing hub or threaded boss. Bond the grounding bushing to the ground bus with a bonding jumper. Seal all conduits entering enclosures with duct seal or expanding foam. Do not use silicone to p+ seal conduit ends.
- 11. For all conduits, ensure the burial depth is a minimum of 18". Ensure the minimum burial depth for conduit placed under a roadway is 24".



# SIGNAL POLE WITH SERVICE

Type T electrical service mounted on signal pole shown as an example. See electrical details, layout sheets, and electrical service data chart for additional details.

SIGNAL CONTROLLER FRONT VIEW

SIGNAL CONTROLLER SIDE VIEW

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See TS-CF standard for conduit and grounding requirements. See layout sheets for ground box locations and any additional conduits that are required.

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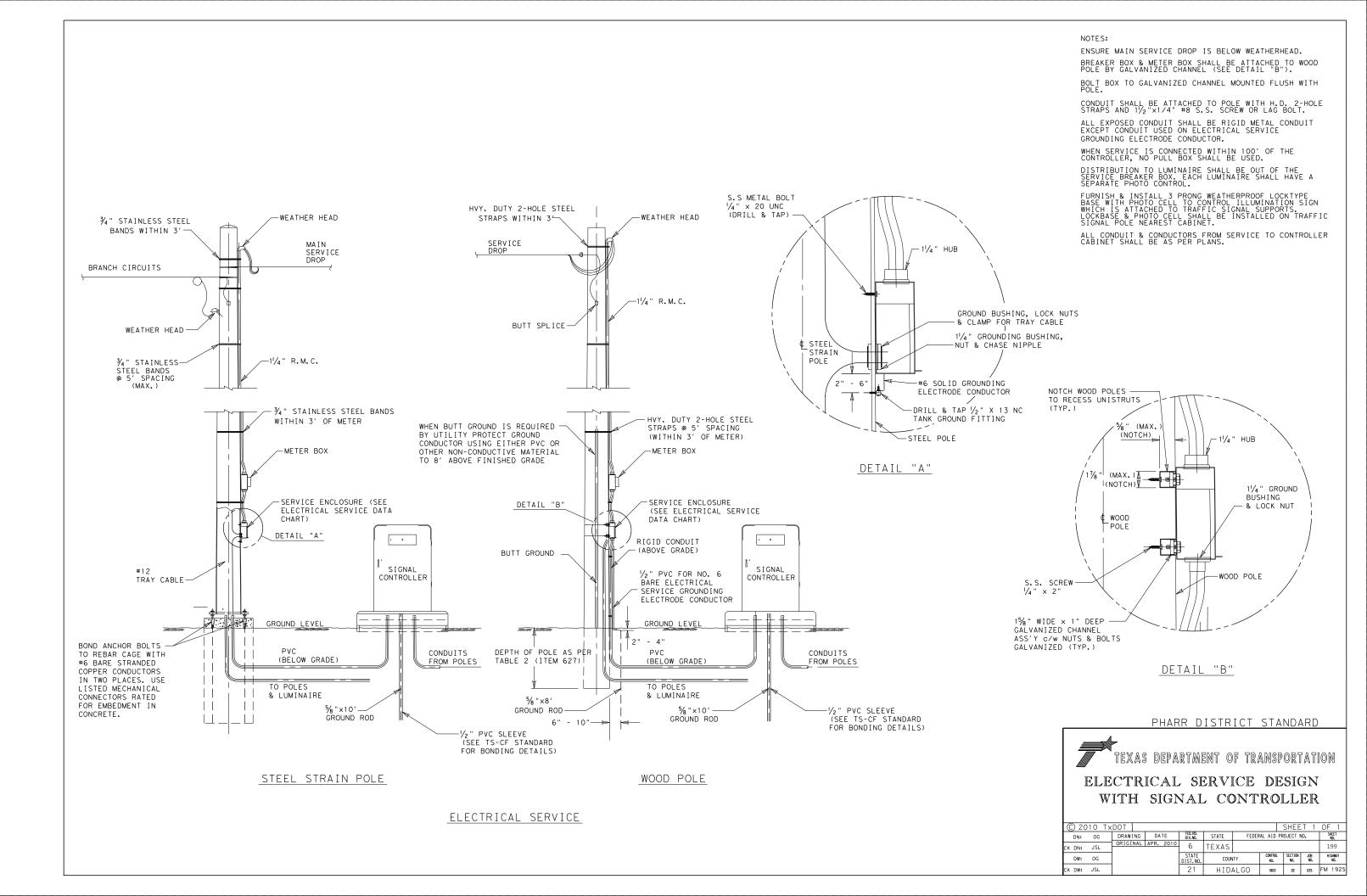
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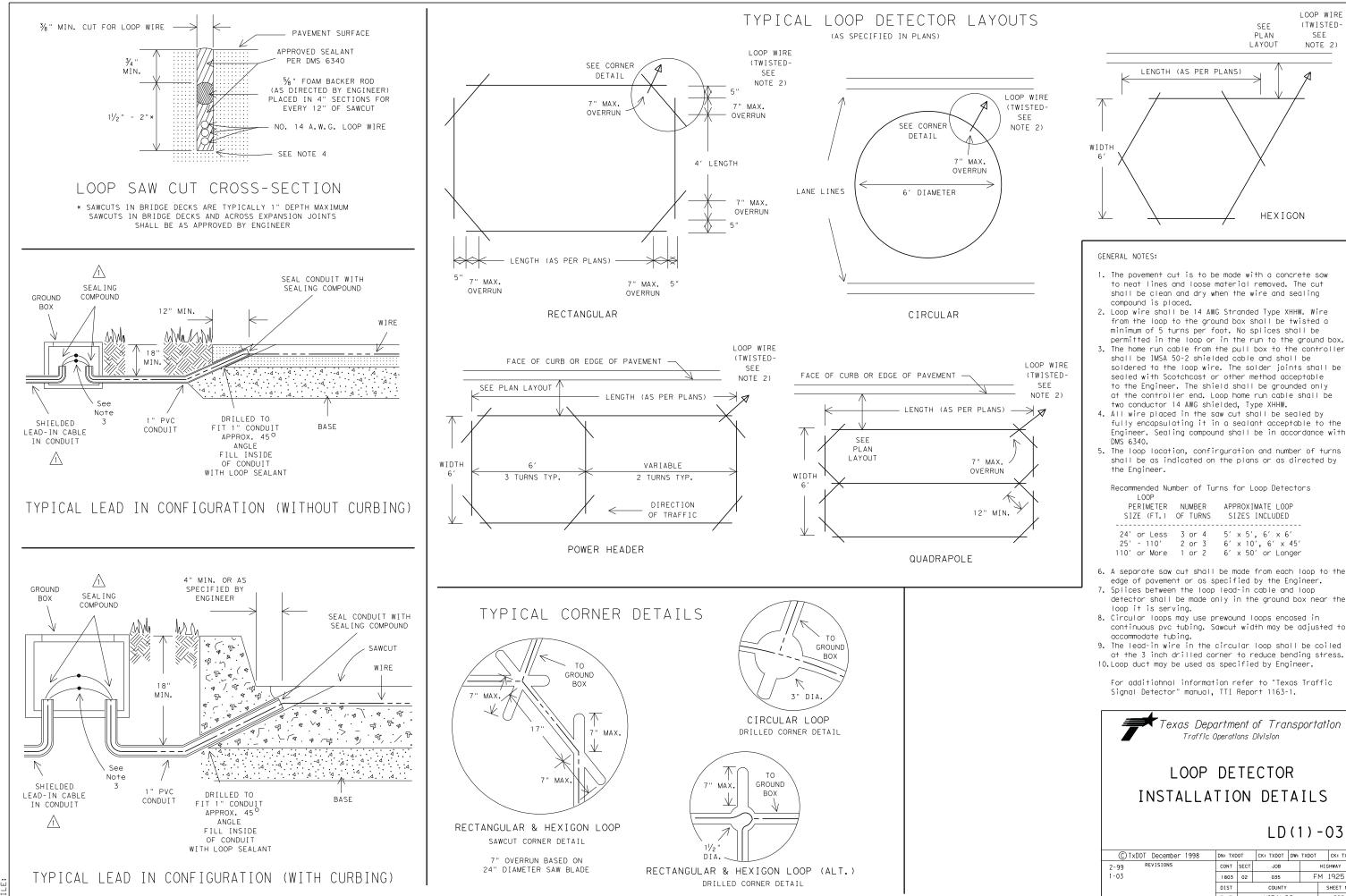
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duits (See but sheet details)	See TS-FD stand sheet for found and conduit det	ioi tat				
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	Texas Department	of Tra	nsp	ortation	Oper Div	affic ations ision ndard
	ELECTRI Typical t					
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of any conver-its use anty the from tice Act". No warr responsibility for damages resulting neering Pract assumes no r results or d is governed by the "Texas Engir any purpose whatsoever. TxDOT other formats or for incorrect of this standard i made by TxDOT for this standard to c The use kind is sion of A I MER: DISCL

DATE: FILE:

5. The loop location, confirguration and number of turns shall be as indicated on the plans or as directed by

Recommended Number of Turns for Loop Detectors

PERIMETER	NUMBER	APPROXIMATE LOOP
SIZE (FT.)	OF TURNS	SIZES INCLUDED
24' or Less	3 or 4	5′ × 5′, 6′ × 6′
25' - 110'	2 or 3	6′ × 10′, 6′ × 45′
110' or More	1 or 2	6′ × 50′ or Longer

- 6. A separate saw cut shall be made from each loop to the
- 7. Splices between the loop lead-in cable and loop detector shall be made only in the ground box near the
- 8. Circular loops may use prewound loops encased in
- continuous pvc tubing. Sawcut width may be adjusted to
- at the 3 inch drilled corner to reduce bending stress. 10. Loop duct may be used as specified by Engineer.

For additionnal information refer to "Texas Traffic Signal Detector" manual, TTI Report 1163-1.

> Texas Department of Transportation Traffic Operations Division

# LOOP DETECTOR INSTALLATION DETAILS

# LD(1) - 03

LOOP WIRE

(TWISTED-

SEE

NOTE 2)

⊿

HEXIGON

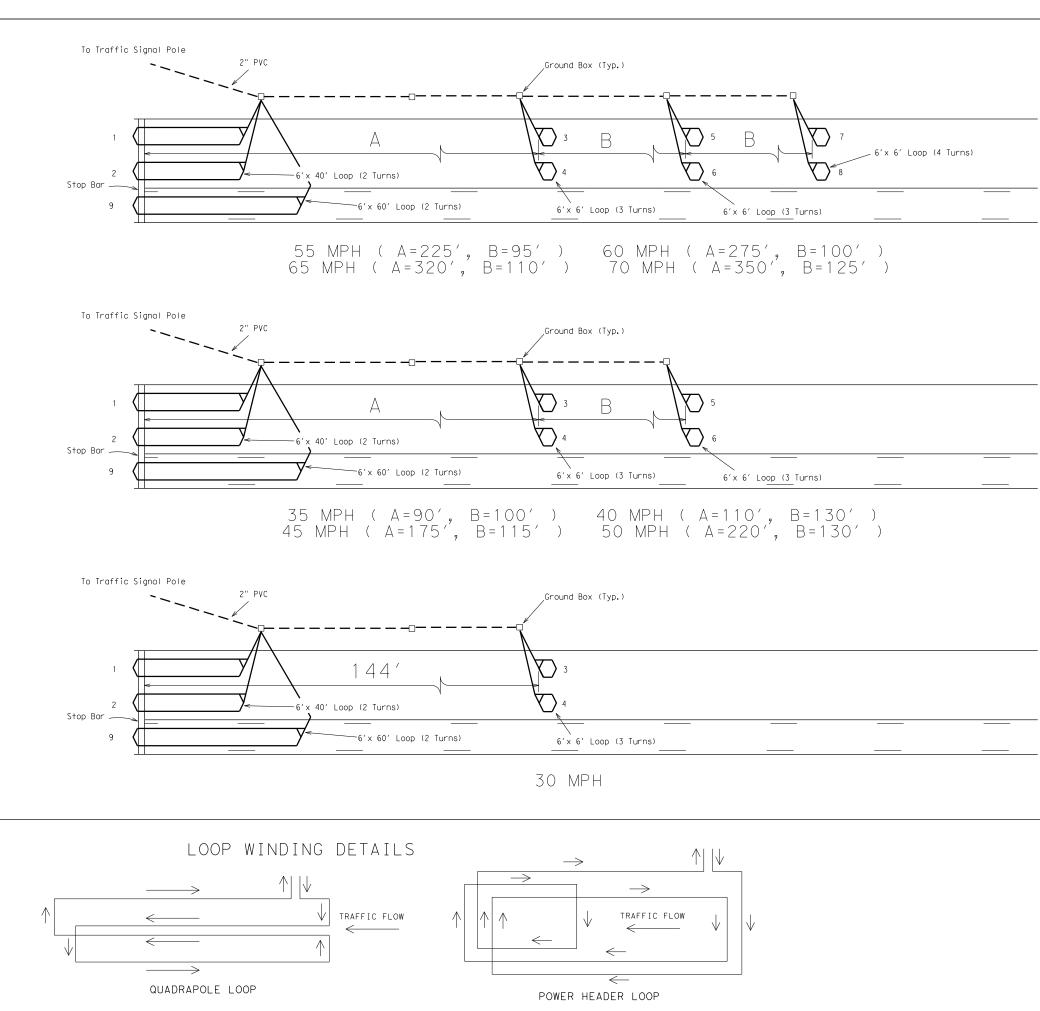
SEE

PLAN

LAYOUT

CTxDOT December 1998		DN: TXDOT		CK: TXDOT	DW: TXDOT			CK: TXDOT
2-99	REVISIONS	CONT	SECT	JOB			HIG	HWAY
1-03		1803	02	035	FM 1925		1925	
		DIST		COUNTY			S	HEET NO.
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### GENERAL NOTES:

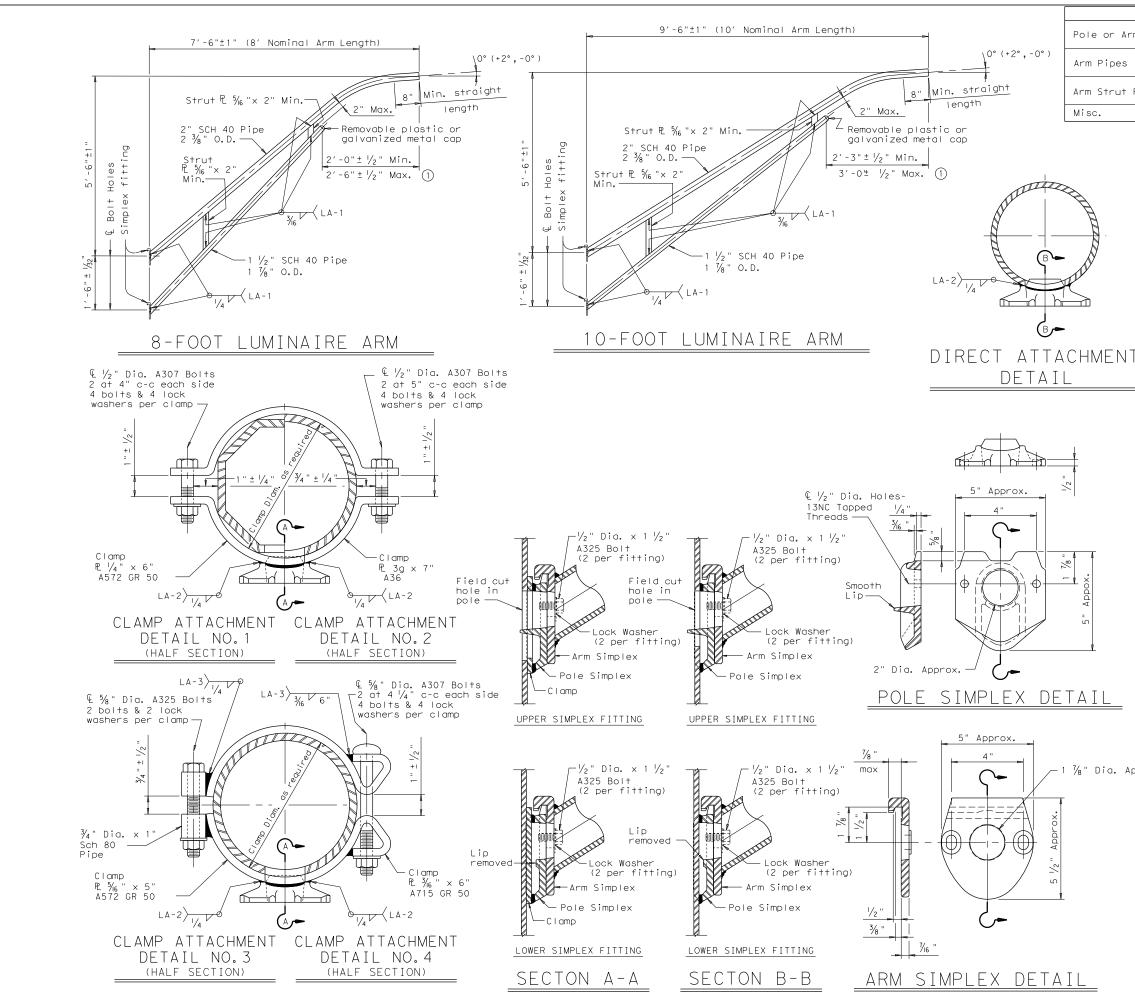
Loops 1 and 2 shall be connected to the controller cabinet by means of the same loop lead-in (2/C #14 AWG).

Loops 3 thru 6 shall be connected to the controller cabinet by means of the same loop lead-in (2/C #14 AWG).

Loops 7 and 8 shall be connected to the controller cabinet by means of the same loop lead-in (2/C #14 AWG).

Loop 9 shall be connected to the controller cabinet by means of a loop lead-in (2/C #14 AWG). Loop 9 shall be placed only when a left turn lane exists.

Texas Department of Transportation Traffic Operations Division								
LOOP PLACEME				-	.S			
			LD	(2	2)-	03		
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	CONT 1803	SECT	CK: TXDOT JOB 035	DW:	TXDOT	CK: TXDOT HIGHWAY 4 1925		



	MATERIALS
le or Arm Simplex	ASTM A27 Gr.65-35 or A148 Gr.80-50, A576 Gr.1021 (3), or A36 (Arm only)
m Pipes	ASTM A53 Gr.B, A501, A1008 HSLAS-F Gr.50④, or A1011 HSLAS-F Gr.50④
m Strut Plates (2)	ASTM A36, A572 Gr.50 ④, or A588
sc.	ASTM designations as noted

- (1) Dimensional limits are given to show acceptable variation in design. All of a Fabricator's production of a particular arm length shall have the same dimensions within specified tolerances.
- (2) Any of the materials listed for plates may be used where the drawings do not specify a particular ASTM desianation.
- (3) A576 must be suitable for forging and also meet minimum tensile strength of 65 ksi, minimum yield of 35 ksi, and elongation in 2 inches of 22 percent.
- (4) ASTM A572, A1008 HSLAS-F, and A1011 HSLAS-F may have higher yield strengths but shall not have less elongation than the grade indicated.

GENERAL NOTES:

Design conforms to 1994 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals and Interim Revisions thereto. Design Wind Speed equals 90 mph plus a 1.3 gust factor. Arms are designed to support a 60 lb. luminaire having an effective projected area (actual area times drag coefficient) of 1.6 sq. ft.

Materials and fabrication shall be in accordance with Item 686, "Traffic Signal Pole Assemblies (Steel)" and with the details, dimensions, and weld procedures shown herein. Weld references call for preapproved weld procedures which the Fabricator must obtain prior to fabrication. In the absense of specified Fabricaton tolerances, dimensions shall be within the tolerances generally obtainable in normal fabrication practice.

Unless otherwise noted, all parts shall be galvanized after fabrication in accordance with Item 445, "Galvanizing".

Deviation from the details and dimensions shown herein require submission of shop drawings in accordance with Item 441, "Steel Structures". Alternate designs are not acceptable.

Each pole simplex fitting shall be supplied with 2 ASTM A325 bolts and 2 lock washers of the size specified. The bolts and lock washers shall be secured to the pole with the other hardware items called for in the plans. When clamp attachment is specified, the Fabricator shall ship the clamp assembly securely attached to the pole at the location shown on the plans.

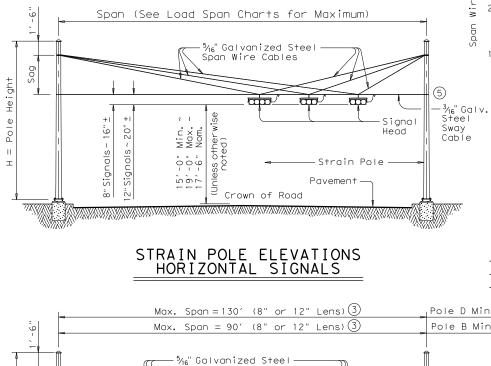
If clamp assemblies are ordered without poles, the Fabricator shall ship one upper and one lower clamp assembly together in a single package, including all nuts and washers required for the clamps and simplex fittings.

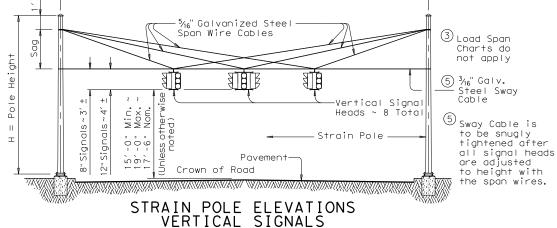
⅓" Dia. Approx.

Texas Department of Transportation Traffic Operations Division STANDARD ASSEMBLY DRAWINGS FOR LUMINAIRE SUPPORT STRUCTURES ARM DETAILS LUM-A-12 CK: JSY DW: LTT © TxDOT August 1995 DN: LEH CK: TEB 5-96 1-99 1-12 REVISION CONT SECT JOB HIGHWAY FM 1925 1803 02 035 DIST COUNTY SHEET NO. PHR HIDALGO 202 129

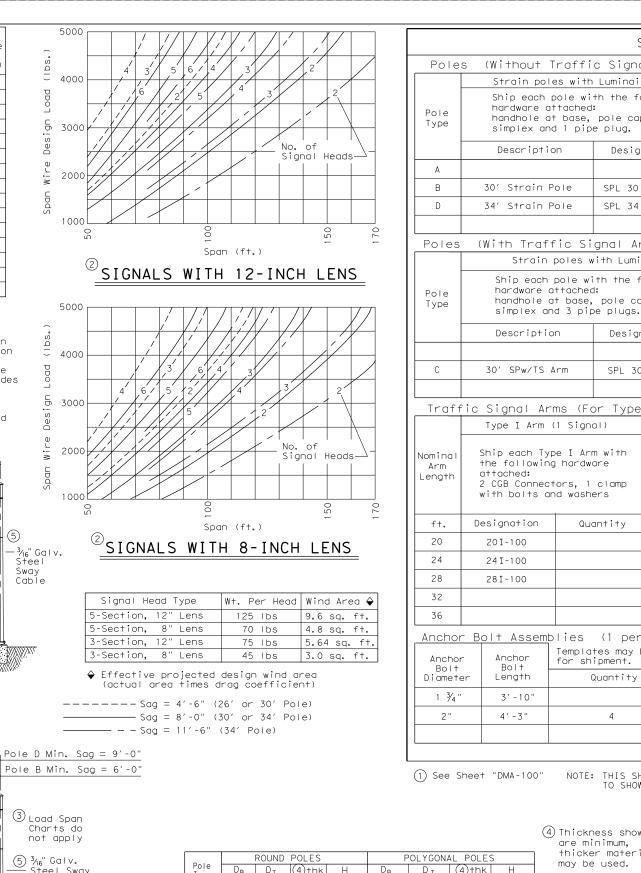
STRAIN POLE DESCRIPTION	Роје Туре	Found- ation Type	Maximum Permissible Span Wire Load (lbs.)
26' Pole	А	36-A	4900
30' Pole	В	36-A	4300
30' Pole with Lum.	В	36-A	4000
30' Pole with 20' Mast Arm	С	36-B	4400
30' Pole with 24' Mast Arm	С	36-B	4000
30' Pole with 28' Mast Arm	С	36-B	3600
30' Pole with 32' Mast Arm	С	36-B	3300
30' Pole with 36' Mast Arm	С	36-B	2900
30' Pole with 20' Mast Arm & Lum.	С	36-B	4100
30' Pole with 24' Mast Arm & Lum.	С	36-B	3800
30' Pole with 28' Mast Arm & Lum.	С	36-B	3400
30' Pole with 32' Mast Arm & Lum.	С	36-B	3000
30' Pole with 36' Mast Arm & Lum.	С	36-B	2500
34' Pole	D	36-B	5200
34' Pole with Lum.	D	36-B	4900

2 Numbers on Load Span Charts indicate the number of signal heads on the span. The total span wire design load is based on one 5-section head and one or more additional 3-section head(s). Design wind pressures on cables are assumed as 1.6 lb/ft. Weight of span wire cables (one per signal head) is assumed as 0.65 lb/ft which includes an allowance for conductor cables and miscellaneous hardware. The effect of the sway cable on load distribution is ignored as it is assumed to break at design wind conditions. When a pole supports 2 spans, the span wire design loads for both spans should be added vectorially to determine the design load for that pole.





(Mast arms are not used with vertical signals)



		ROUND	POLES		POLYGONAL POLES					
Pole Type	DB	DT	(4)†hk	Н	DB	Dт	(4)†hk	Н		
Type	in.	in.	in.	f†.	in.	in.	in.	f†.		
Α	12.5	8.9	.239	26	13.0	9.0	.239	26		
В	13.5	9.3	.239	30	14.0	9.0	.239	30		
С	15.5	11.3	.239	30	16.0	11.0	.239	30		
D	15.5	10.7	.239	34	16.0	11.0	.239	34		
D <sub>B</sub> = P	$D_B$ = Pole Base O.D. $D_T$ = Pole Top O.D. H = Pole Height									

Poles

Α

В

D

С

20

24

28

32

36

1 3/4 "

2"

Designation

DOCUMENT WAS AUTHORIZED BY C. SIMEONIDIS, P.E. 60919

11/16/2022

	S	HIPPI	NG PAR	ΤS	LIST					
(Without Tr	raffic Signo	I Arm)								
	s with Luminair				Strain	poles wi	thout Lum	inaire		
Ship each pole with the following hardware attached: handhole at base, pole cap, 2 clamp-on simplex and 1 pipe plug.					Ship each pole with the following hardware attached: handhole at base, pole cap and 1 pipe plug.					
Description	n Desigr	nation	Quantit	У	Description Design			tion	Quantity	
					26′ Strain	Pole	SP 26 A	-100		
30′ Strain Po	ole SPL 30	B-100			30′ Strain	Pole	SP 30 B	-100		
34′ Strain Po	ole SPL 34	D-100	2		34′ Strain Pole SP 3			-100	2	
/W.°. L.E T.E. = C.C.	·- C ·	)								
	ic Signal Ar oles with Lumir				Strair	noles w	ithout Lum	ingire		
hardware at handhole at	oole with the fo tached: base, pole cap 3 pipe plugs.				hardw handh	vare attac	e with the ched: use, pole		0	
Description	n Design	ation	Quantity	У	Descrip	tion	Designa	tion	Quantity	
30′ SPw/TS Ar	rm SPL 30	C-100		+	30' SPw/TS	S Arm	SP 30 C	-100		
s Signal Arm	ns (For Type	C pole	es)							
Type I Arm (1	l Signal)	Тур	e ∐ Arm (	(2 S	ignals)	Тур	e III Arm (	3 Sign	als)	
Ship each Type the following attached: 2 CGB Connecto with bolts and	hardware ors, 1 clamp	the fo attach 1 Brac Connec	each Type bllowing h hed: oket Assen otors and bolts and	nard mbly 1 c	ware 1) , 3 CGB Lamp	the fo attache 2 Brack Connec-	ach Type I Llowing ha ed: ket Assemb tors and 1 plts and w	rdware lies clamp	, 4 CGB	
Designation	Quantity	Design	nation	C	Quantity	Design	nation	Qu	Jantity	
20I-100										
24I-100		24 II	-100							
28I-100		28 II	-100							
		32 Ⅲ	-100			32 🎞	-100			
		36 II	-100			36 🎞	-100			
Bolt Assembl				_	uminaire A					
	Templates may b for shipment.	e remov	ed		ominal Arm Le	engtn		Quant		
Length	Quantity				10' Arm				2	
3′-10″										
4′-3"	4	8	flat was	sher	olt Assembly m templates, s, and 4 nut Standard Dra	anchor c	devices	nuts,	ng:	
et "DMA-100"	NOTE: THIS SH TO SHOW	EET WAS QUANTIT						SHEE	T 1 OF 2	
	Thickness show are minimum, thicker materi					Traffic	artment of Operations Div	vision		
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9 30	á l				SIRAI	n poi	le as	,SEN	1BLIES	
9 <u>30</u> 9 <u>34</u>	8	C. SIMI	EONIDIS		(1)	00 MPI	H WIND	) ZOI	NE)	
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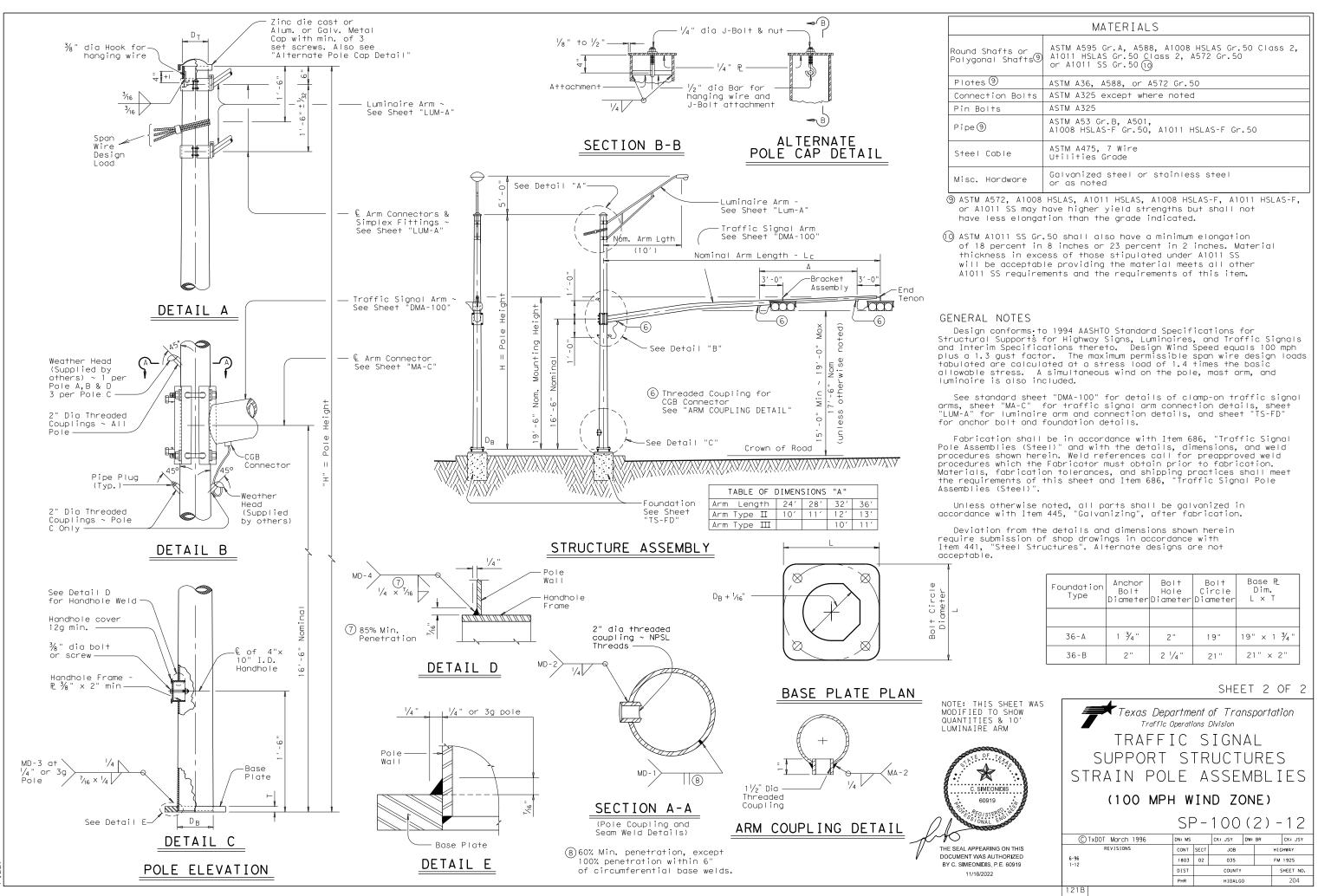
COUNTY

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SHEET NO.

203

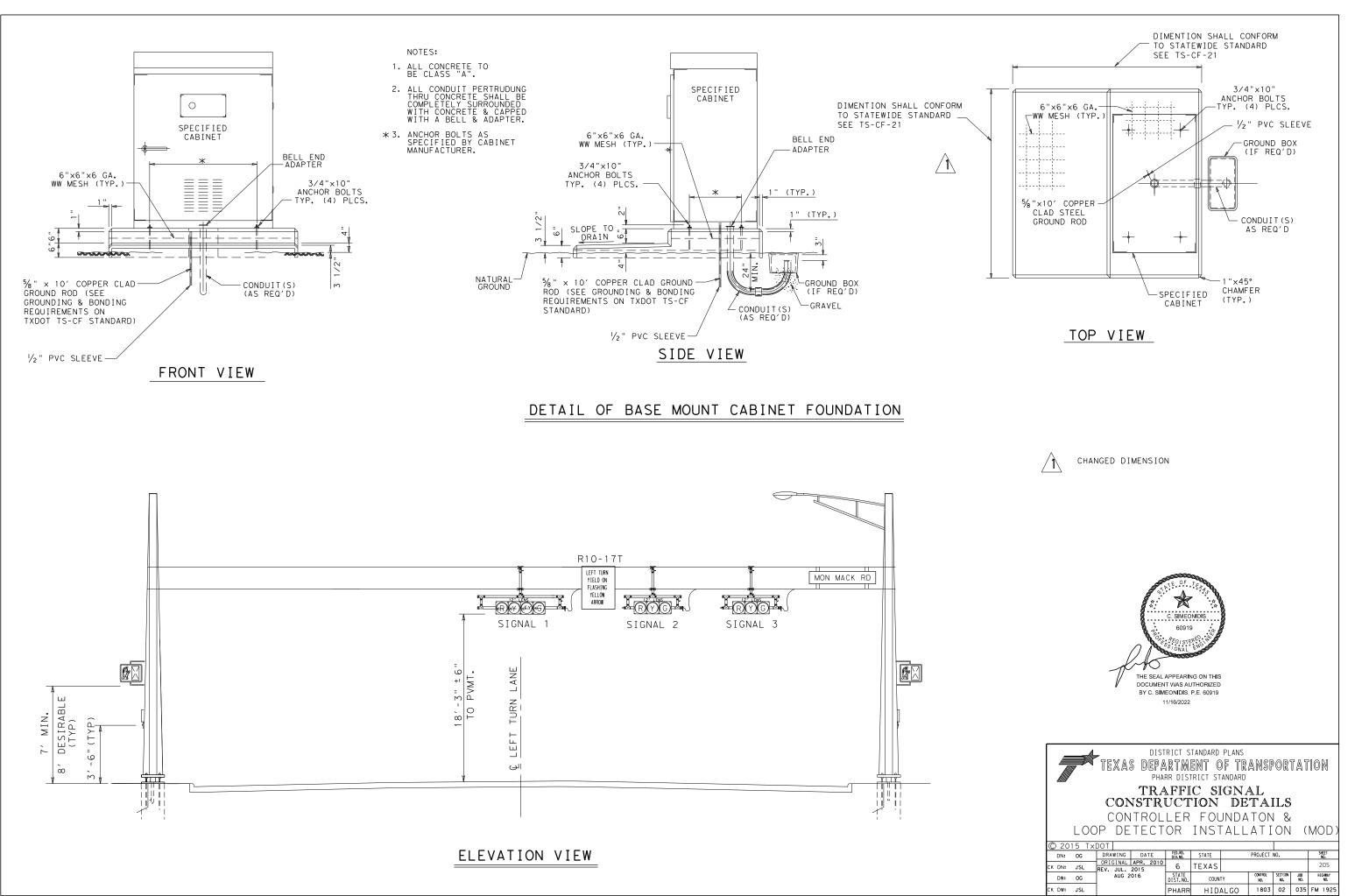


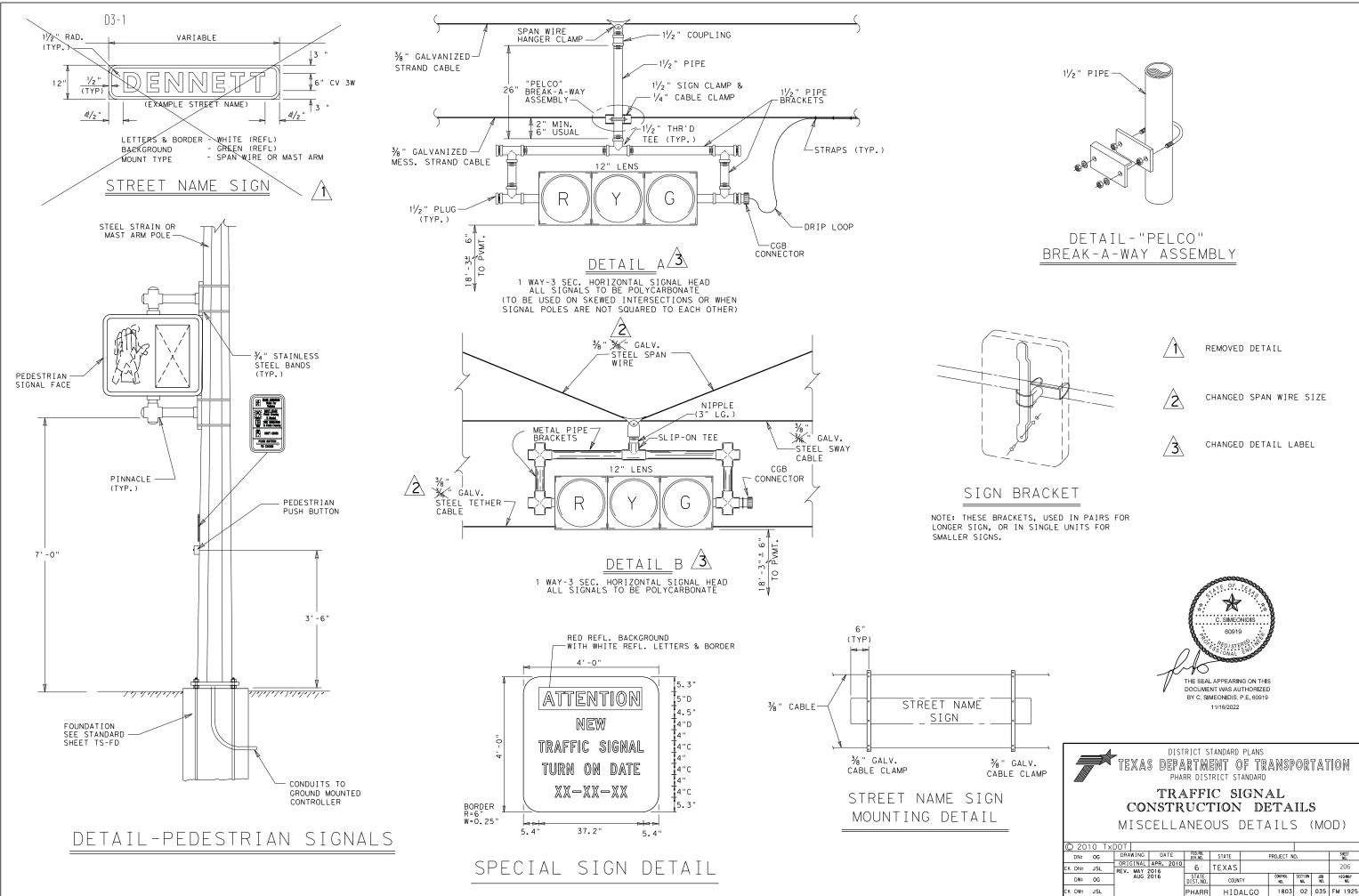


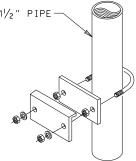
	MATERIALS
ound Shafts or olygonal Shafts⑨	ASTM A595 Gr.A, A588, A1008 HSLAS Gr.50 Class 2, A1011 HSLAS Gr.50 Class 2, A572 Gr.50 or A1011 SS Gr.50 🔞
Plates (9)	ASTM A36, A588, or A572 Gr.50
Connection Bolts	ASTM A325 except where noted
pin Bolts	ASTM A325
Pipe)	ASTM A53 Gr.B, A501, A1008 HSLAS-F Gr.50, A1011 HSLAS-F Gr.50
Steel Cable	ASTM A475, 7 Wire Utilities Grade
Misc. Hardware	Galvanized steel or stainless steel or as noted

Foundation Type	ROLT	Bolt Hole Diameter	Bolt Circle Diameter	Base PL Dim. L x T
36-A	1 3⁄4 "	2 "	19"	$19" \times 1 \frac{3}{4}"$
36-B	2 "	2 1/4 "	21 "	21" x 2"

SHEET	2	OF	2
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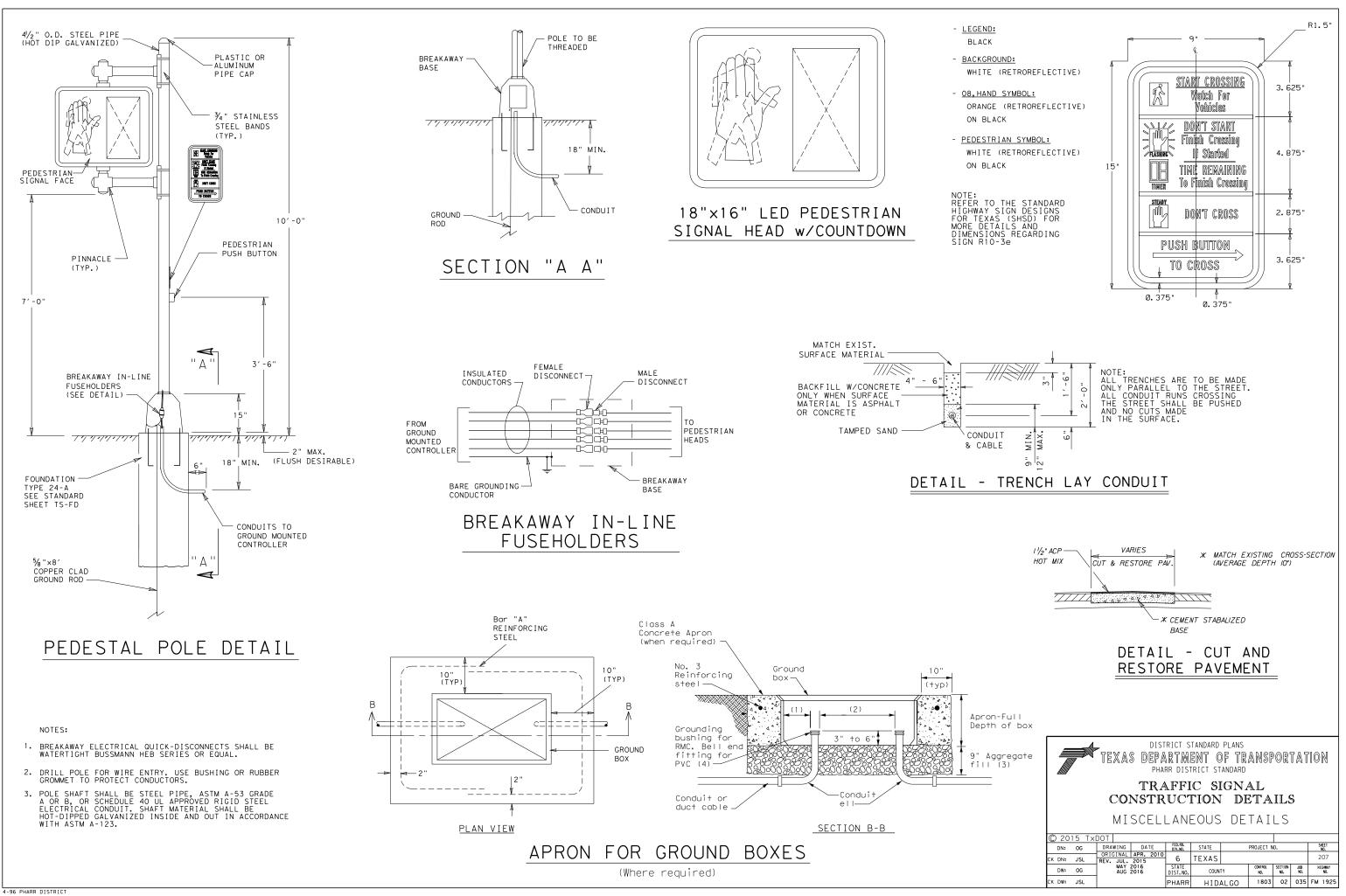


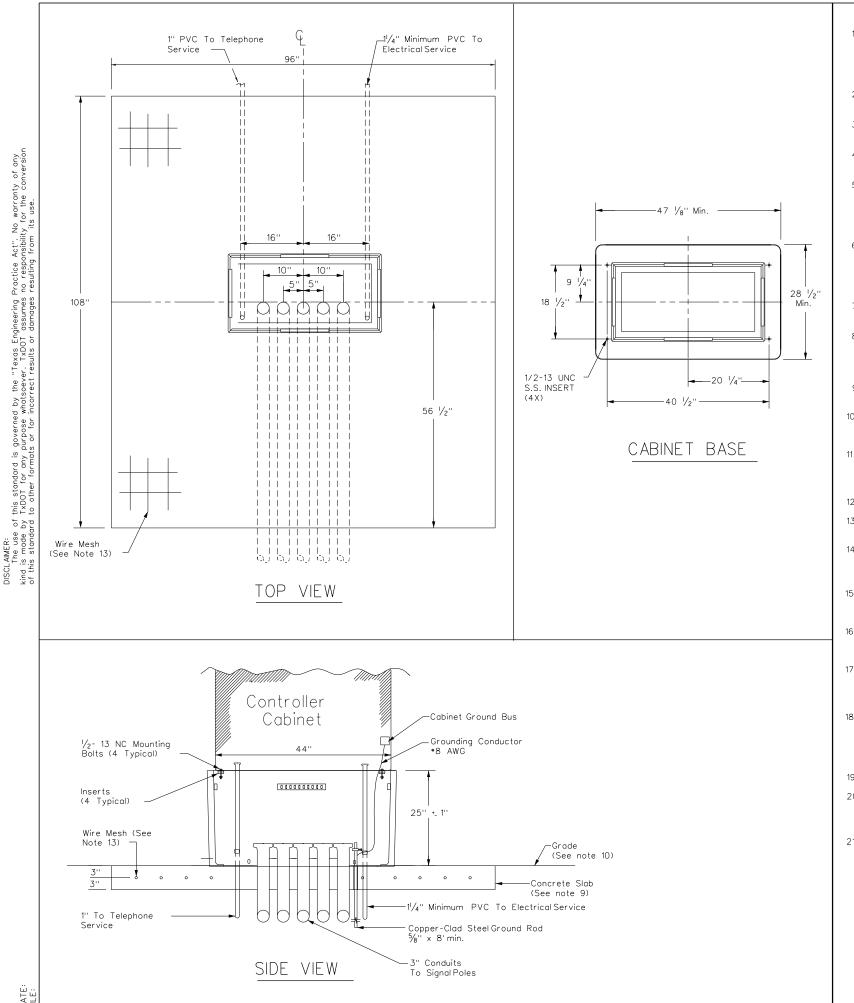












# TRAFFIC SIGNAL CONTROLLER BASE:

- 1. Provide a traffic signal controller base (cabinet base) manufactured of polymer concrete material consisting of calcareous and siliceous stone; glass fibers and thermoset polyester resin. The polymer concrete cabinet base must be reinforced on the inside of the cabinet base with fiberglass matting. Provide one of the following bases: Armorcast Part \* A6001848X24, Quazite Model \* PG3048Z709, or other as approved by TxDOT Traffic Safety Division.
- 2. The polymer concrete material must have a minimum compressive strength of 10,300 pounds per square inch (psi), minimum flexural strength of 3600 psi, and minimum shear strength of 3600 psi.
- 3. The polymer concrete cabinet base must conform to the dimensions shown and must accommodate a standard TxDOT basemount cabinet.
- 4. Supply the cabinet base with four 1\*2"-13 UNC stainless steelinserts for attachment of the cabinet to the base. Inserts must withstand a minimum torque of 50 ft-lb and a minimum straight pullout strength of 750 lbs.
- 5. Provide the cabinet base with 4 cable racks mounted one on each side of the base 2" to 7 " from the top edge of the base. Unless approved otherwise, cable racks must be 1-1/2 x 9\*16x 3\*16inch steel channel with eight T-slots spaced at 1-1/2 inches. The cable racks must easily accommodate the insertion of tie wraps to attach field wiring to the racks to serve as strain relief. Secure cable racks to the base using 1\*2"-13 UNC stainless steel screws and inserts.
- 6. The cabinet base, when secured to the concrete slab with controller cabinet attached, must withstand a minimum wind load of 125 mph or a 850 lb force applied at 49" above the bottom of the base without causing the base or cabinet to come out of their anchored position or cause any permanent deformation. The manufacturer must supply certification by an independent testing laboratory or sealed by a Texas Licensed ProfessionalEngineer. Provide the cabinet base with hardware for attachment to a concrete slab.
- 7. The traffic signal base must be permanently marked either by impress or by permanent ink with the manufacturer's model number and name or logo.
- 8. Seal the base to the concrete with a silicone caulk bead and fastened to the slab per manufacturer's instructions.

# CONCRETE SLAB:

- 9. Traffic signal controller pad must be a portland cement concrete slab poured in place, must conform to the dimensions shown, and must be level.
- 10. Grade earthwork such that it is flush with the concrete pad on all four sides, unless otherwise shown on the plans. Subsidiary to ITEM 680, four inch rip rap may be used in lieu of earthwork. Slopes shall gradually contour to match plans.
- 11. Bond a \*8 AWG copper ground wire and an 8 ft ground rod bonded to the reinforcing mesh by a suitable UL Listed clamp and terminated to the cabinet grounding bus for the purpose of providing a local ground for the electrical grounding conductor. The electrical grounding conductor specified in Item 680-3.A.4 is required and must be terminated to the cabinet ground bus.
- 12. Install a PVC sleeve to prevent the ground rod from direct embedment in the slab.
- 13. Provide welded wire mesh 6X6-W2.9 X W2.9 for reinforcement. Provide joints and splices in the mesh with a
- 14. Provide Class B concrete minimum for the slab in accordance with Item 421. Construct the slab in accordance with Item 531

CONDUITS:

- 15. Stub up and run 3-inch conduits through the slab to the various traffic signal poles and ground boxes as shown on the layouts. Install the number of conduits as shown on layouts plus two additional 3 inch conduits for future use. Terminate the conduits with a bushing between 2 and 4-inches above the slab.
- 16. Extend conduits for future use at least 18-inches from the edge of the slab, terminate underground with a coupling, and cap and sealso that the sealcan be removed without damaging the coupling. This must also apply to unused telephone conduit.
- 17. Stub up two separate conduits through the slab from the electrical and telephone services. Run the conduit for the electrical feed directly to the electrical service enclosure. Run the conduit for the telephone line directly to the telephone service, usually located on the same pole as the electrical service. Telephone must not under any circumstance share a conduit with any other function.
- 18. Terminate electric and telephone conduits above the slab with a coupling. After the base is installed, extend the conduits above the top of the base and secure to the base using a steel one-hole strap or similar suitable substitute.

# CONTROLLER CABINET:

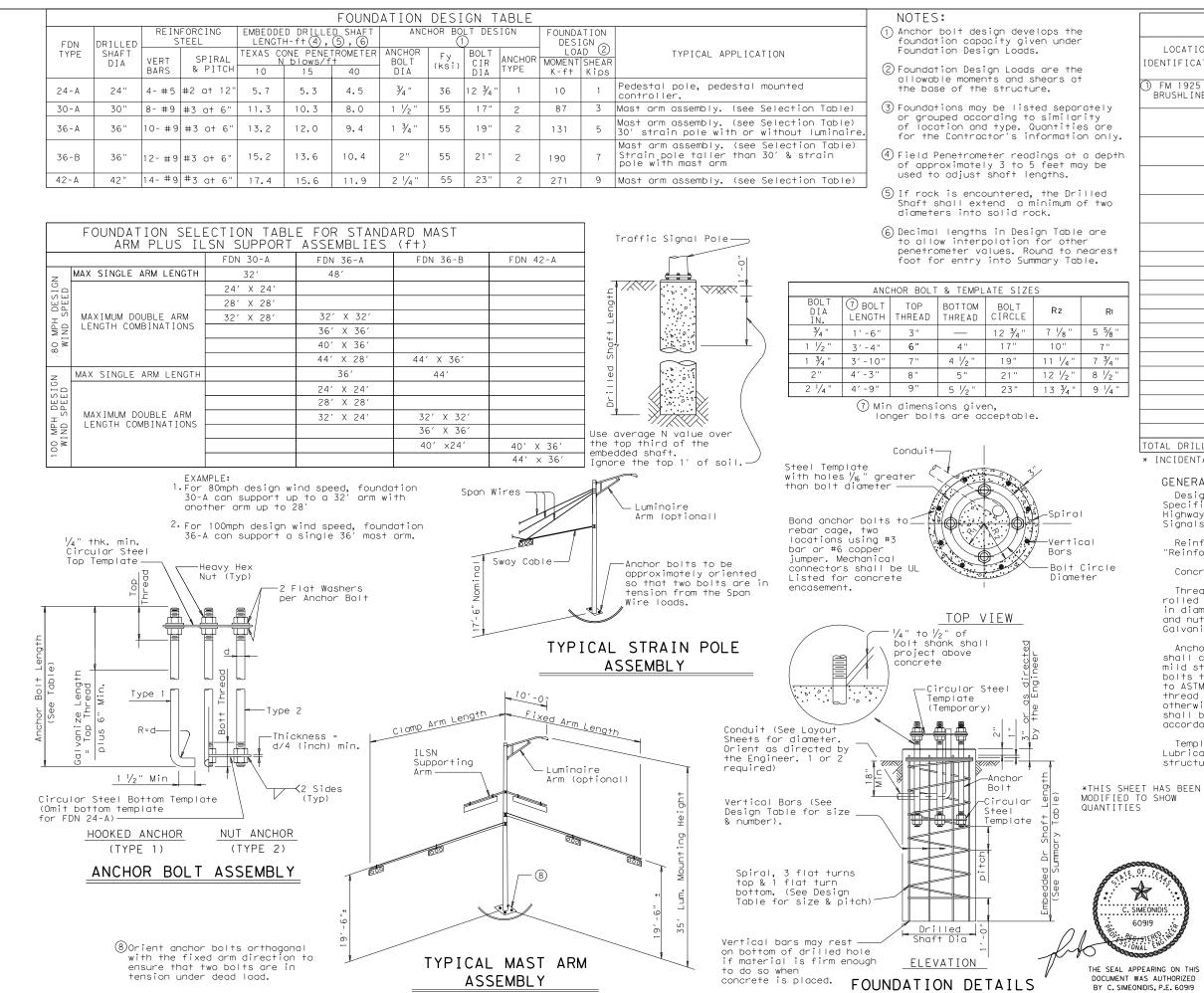
- 19. Anchor the controller cabinet to the base using four stainless s
- 20. The silicone caulk bead specified in Item 680.3.B must be RT

# PAYMENT:

21. Bid TS-CF as subsidiary to Item 680

ninimum 6-inch overlap. Center the mesh between top and bottom and provide a minimum 3 inch cover on the edges.

steel1/2-13 NC bolts.										
v 133.	Traffic Safety Division Standard									
		CONTR	OLI	EF AN	1D 5	PAD		Γ		
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LOCATION IDENTIFICATION	AVG. N BLOW	FDN	NO.	C	RILLED	SHAFT (FEET)	LENGTH	6
	/f+.	TYPE	ΕA	24-A	30-A	36-A	36-B	4
<pre>① FM 1925 AT BRUSHLINE RD</pre>	10	24-A	1	5.7*				
BRUSHLINE RD		36-B	4				60.8	
TOTAL DRILLED	SHAFT	LENGT	HS	5.7*			60.8	

\* INCIDENTAL TO ITEM 687

## GENERAL NOTES:

Design conforms to 1994 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals and interim revisions thereto.

Reinforcing steel shall conform to Item 440, "Reinforcing Steel".

Concrete shall be Class "C".

Threads for anchor bolts and nuts shall be rolled or cut threads of 8UN series up to 2" in diameter or UNC series for all sizes. Bolts and nuts shall have Class 2A and 2B fit tolerances. Galvanized nuts shall be tapped after galvanizing.

Anchor bolts that are larger than 1" in diameter shall conform to "alloy steel" or "medium-strength mild steel" per Item 449, "Anchor Bolts". Anchor bolts that are 1" in diameter or less shall conform to ASTM A36. Galvanize a minimum of the top end thread length plus 6" for all anchor bolts unless otherwise noted. Exposed washers and exposed nuts shall be galvanized. All galvanizing shall be in accordance with Item 445, "Galvanizing".

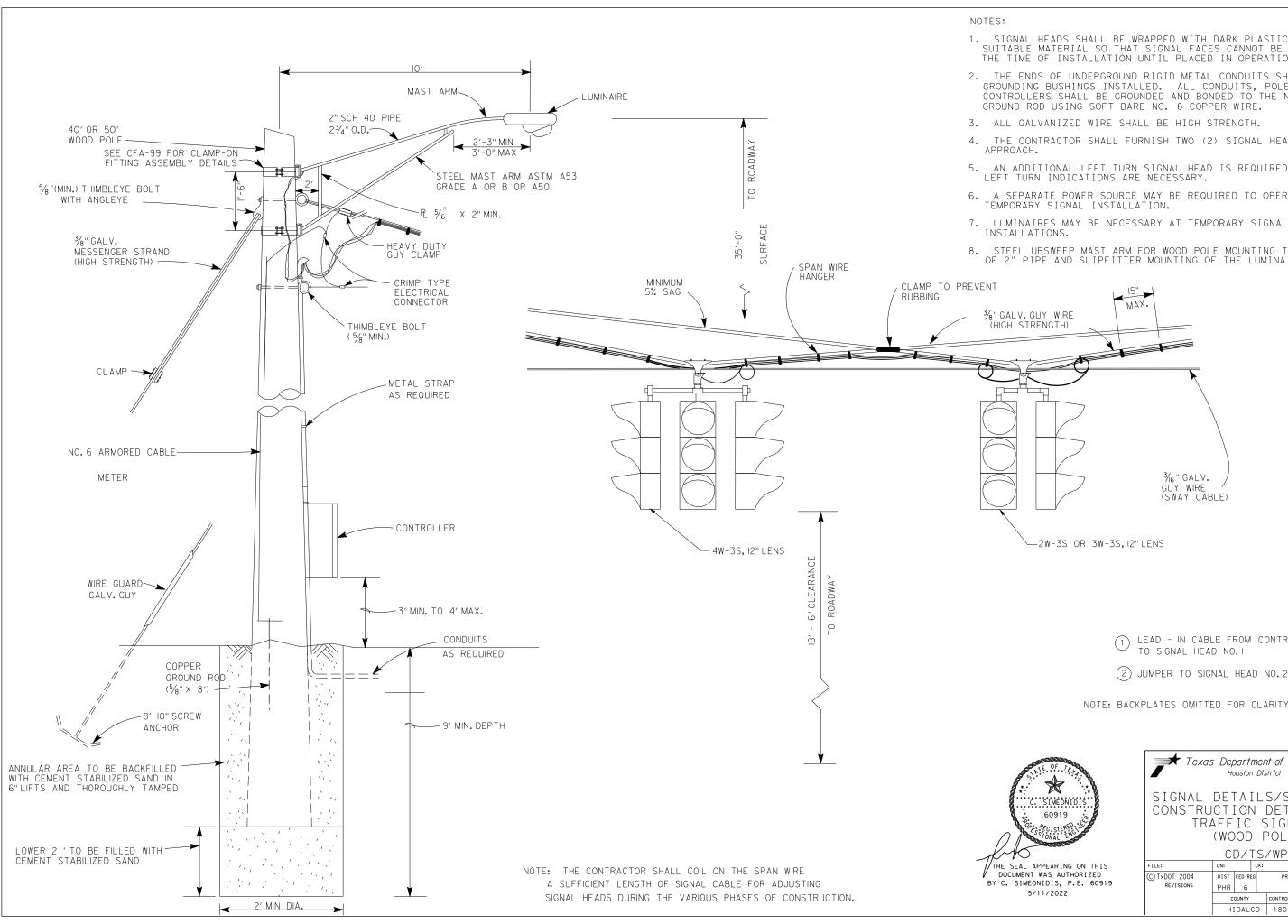
Templates and embedded nuts need not be galvanized. Lubricate and tighten anchor bolts when erecting the structure in accordance with Item 449, "Anchor Bolts".

DOCUMENT WAS AUTHORIZED BY C. SIMEONIDIS, P.E. 60919 11/16/2022



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5-96 11-99	· ·	CONT		CK: JSY JOB	Dw:	MAO/MMF	CK: JSY/TEB

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SIGNAL HEADS SHALL BE WRAPPED WITH DARK PLASTIC OR SUITABLE MATERIAL SO THAT SIGNAL FACES CANNOT BE SEEN FROM THE TIME OF INSTALLATION UNTIL PLACED IN OPERATION.

2. THE ENDS OF UNDERGROUND RIGID METAL CONDUITS SHALL HAVE GROUNDING BUSHINGS INSTALLED. ALL CONDUITS, POLES AND CONTROLLERS SHALL BE GROUNDED AND BONDED TO THE NEAREST GROUND ROD USING SOFT BARE NO. 8 COPPER WIRE.

THE CONTRACTOR SHALL FURNISH TWO (2) SIGNAL HEADS PER

5. AN ADDITIONAL LEFT TURN SIGNAL HEAD IS REQUIRED WHEN LEFT TURN INDICATIONS ARE NECESSARY.

6. A SEPARATE POWER SOURCE MAY BE REQUIRED TO OPERATE THE TEMPORARY SIGNAL INSTALLATION.

8. STEEL UPSWEEP MAST ARM FOR WOOD POLE MOUNTING TO BE MADE OF 2" PIPE AND SLIPFITTER MOUNTING OF THE LUMINAIRE.

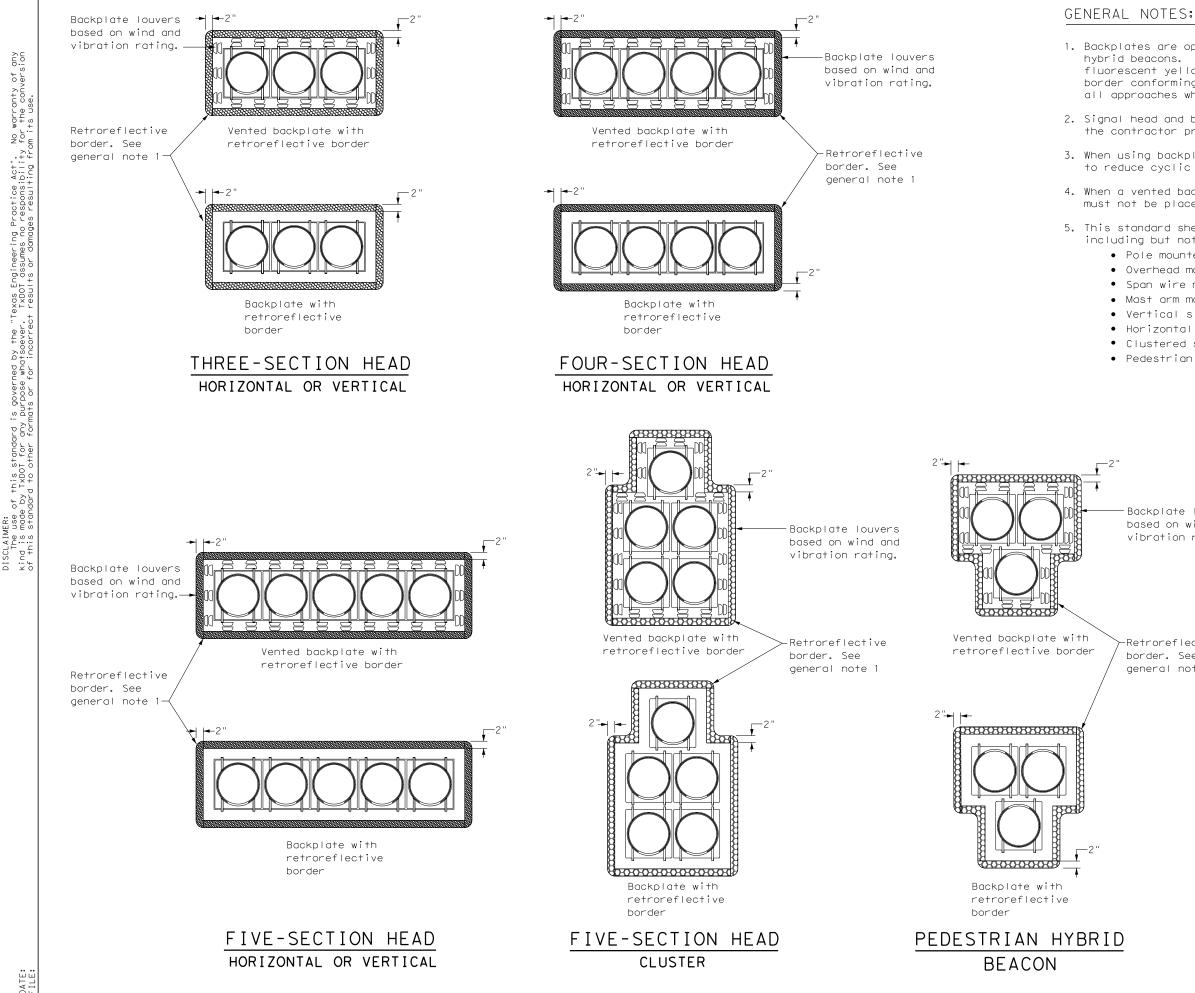
LEAD - IN CABLE FROM CONTROLLER TO SIGNAL HEAD NO. I

(2) JUMPER TO SIGNAL HEAD NO. 2

NOTE: BACKPLATES OMITTED FOR CLARITY (IF REQUIRED)

Texas Department of Transportation Houston District								
SIGNAL DETAILS/STANDARDS CONSTRUCTION DETAILS FOR TRAFFIC SIGNALS (WOOD POLE)								
CD/TS/WP								
FILE:	DN:		ск:		DW:		СК	
© TxDOT 2004	DIST	FED RE	G	PRO	JECT N	ю.		SHEET
REVISIONS	PHR 6							210
	С	OUNTY		CONTROL	SECT	JOB	н	IGHWAY
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STD-M10



1. Backplates are optional for traffic signals and pedestrian hybrid beacons. When backplates are used, a 2-inch wide fluorescent yellow AASHTO Type B<sub>FL</sub> or C<sub>FL</sub> retroreflective border conforming to TxDOT DMS-8300 is required. Place on all approaches when used. 2. Signal head and backplate compatability must be verified by the contractor prior to installation. 3. When using backplates on signal heads, venting is preferred to reduce cyclic vibration stress. 4. When a vented backplate is used, the retroreflective border must not be placed over the louvers. 5. This standard sheet applies to all signal heads with backplates, including but not limited to: • Pole mounted • Overhead mounted

- Span wire mounted
- Mast arm mounted
- Vertical signal heads
- Horizontal signal heads
- Clustered signal heads
- Pedestrian hybrid beacons

Backplate louvers based on wind and vibration rating.

Retroreflective border. See general note 1

Texas Department	Ĺ	Traffic Safety Division tandard				
TRAFFIC SIGNAL HEAD WITH BACKPLATE TS-BP-20						
FILE: ts-bp-20.dgn	dn: Tx	DOT	ск: TxDOT Dw:	TxDO	Т ск: ТхDОТ	
© TxDOT June 2020	CONT	SECT	JOB		HIGHWAY	
REVISIONS	1803 02 035 FM 1925				FM 1925	
	DIST COUNTY SH			SHEET NO.		
	PHR		HIDALGO		211	
134						

# REQUIREMENTS FOR INDEPENDENT MOUNTED ROUTE SIGNS

SHEETING REQUIREMENTS					
USAGE	COLOR	SIGN FACE MATERIAL			
BACKGROUND	WHITE	TYPE A SHEETING			
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING			
LEGEND & BORDERS	WHITE	TYPE A SHEETING			
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM			
LEGEND & BORDERS	ALL OTHERS	TYPE B or C SHEETING			



DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any sind 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 domages resulting from its use.

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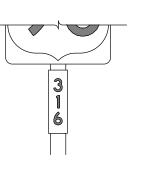




TYPICAL EXAMPLES

# REQUIREMENTS FOR BLUE, BROWN & GREEN D AND I SERIES GUIDE SIGNS

SHEETING REQUIREMENTS					
USAGE	COLOR	SIGN FACE MATERIAL			
BACKGROUND	ALL	TYPE B OR C SHEETING			
LEGEND & BORDERS	WHITE	TYPE D SHEETING			
LEGEND, SYMBOLS & BORDERS	ALL OTHERS	TYPE B OR C SHEETING			







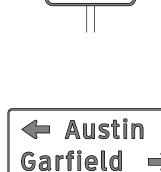
Plan Sheets







TYPICAL EXAMPLES



- plans.
- or F).

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. White legend shall use the Clearview Alphabet. The following Clearview fonts shall be used to replace the existing white Federal Highway Administration (FHWA) Standard Highway Alphabets, when not specified in the SHSD, or in the

В	CV-1W
С	CV-2W
D	CV-3W
E	CV-4W
Emod	CV-5WR
F	CV-6W

3. Route sign legend (ie. IH, US, SH and FM shields) shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets B, C, D, E, Emod

4. 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.

5. Independent mounted route sign with white or colored legend and borders shall be applied by screening process with transparent color ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof. White legend, symbols and borders on all other signs shall be cut-out white sheeting applied to colored background sheeting.

6. Information regarding borders and radii for signs is found in the "Standard Highway Sign Designs for Texas". Dimensions shown and described for borders and corner radii on parent sign are nominal. Borders may vary in width as much as 1/2 inch. Corner radii above 3 inches may vary in width as much as 1 inch. Borders and corner radii within a parent sign must be of matching widths. The sign area outside the corner radius should be trimmed or rounded.

7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.

8. Mounting details of roadside signs are shown in the "SMD series" Standard

DEPARTMENTAL MATERIAL SPECIF	ICATIONS
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

ALUMINUM SIGN BL	ANKS 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/

Texas Departmen	nt of Trans	sportation	Ope	raffic erations ivision andard		
TYPICAL SIGN REQUIREMENTS						
   TS	SR(3)	-13				
TS ۶۱۱٬Ε۰ tsr3-13.dgn	SR(3)	-	V: TXDOT	CK: TXDOT		
		CK: TXDOT DV	1	CK: TXDOT		
FILE: tsr3-13.dgn ©TxDOT October 2003 REVISIONS	DN: TXDOT	CK: TXDOT DW	н			
FILE: tsr3-13.dgn ©TxDOT October 2003	DN: TXDOT	CK: TXDOT DW	н	IGHWAY		

BACKGROUND       WHITE       TYPE B OR C SHEETING         IND & BORDERS       WHITE       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         CQUIREMENTS FOR WARNING SIGNS       REQUIREMENTS FOR SCHOOL SIGNS         REQUIREMENTS FOR SCHOOL SIGNS       REQUIREMENTS FOR SCHOOL SIGNS         SCHOOL       SPEED         SCHOOL       SIGNS		(EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)
Image: Street of Store Four Specific Store Sone Sone Street of Store Four Specific Store Sone Sone Street of Store Face Material       Street find Requirements         Image: Street of Store Sone Sone Street of Store Face Material       Street find Requirements       Street find Requirements         Image: Street of Store Sone Sone Street of Store Face Material       Street find Requirements       Street find Requirements         Image: Street of Store Sone Sone Street of Street of Street of Store Sone Sone Sone Sone Sone Sone Sone Son	(STOP)	
SPECIFIC SIGNS ONLY         SHEETING REQUIREMENTS         USAGE       COLOR       SIGN FACE MATERIAL         SACKGROUND       RED       TYPE B OR C SHEETING         BACKGROUND       WHITE       TYPE B OR C SHEETING         BACKGROUND       WHITE       TYPE B OR C SHEETING         BACKGROUND       RED       TYPE B OR C SHEETING         BACKGROUND       REQUIREMENTS FOR SCHOOL SIGNS         CQUIREMENTS FOR SCHOOL SIGNS	ENTER	TYPICAL EXAMPLES
SHEETING REQUIREMENTS         USAGE       COLOR       SIGN FACE MATERIAL         USAGE       COLOR       SIGN FACE MATERIAL         BACKGROUND       RED       TYPE B OR C SHEETING         BACKGROUND       WHITE       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         CQUIREMENTS FOR WARNING SIGNS       REQUIREMENTS FOR SCHOOL SIGNS		
USAGE       COLOR       SIGN FACE MATERIAL         BACKGROUND       RED       TYPE B OR C SHEETING         BACKGROUND       WHITE       TYPE B OR C SHEETING         BACKGROUND       RED       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         SCHUIREMENTS FOR WARNING SIGNS       REQUIREMENTS FOR SCHOOL SIGNS         CQUIREMENTS FOR WARNING SIGNS       REQUIREMENTS FOR SCHOOL SIGNS	SHEETING REQUIREMENTS	
ACKGROUND       WHITE       TYPE B OR C SHEETING         ND & BORDERS       WHITE       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         CQUIREMENTS FOR WARNING SIGNS       REQUIREMENTS FOR SCHOOL SIGNS         REQUIREMENTS FOR SCHOOL SIGNS       REQUIREMENTS FOR SCHOOL SIGNS         SCHOOL       SIGNS         SCHOOL       SIGNS		
AND & BORDERS WHITE TYPE B OR C SHEETING LEGEND RED TYPE B OR C SHEETING CQUIREMENTS FOR WARNING SIGNS REQUIREMENTS FOR SCHOOL SIGNS REQUIREMENTS FOR SCHOOL SIGNS REQUIREMENTS FOR SCHOOL SIGNS	BACKGROUND RED TYPE B OR C SHEETING	BACKGROUND ALL OTHERS TYPE B OR C SHEETING
END & BORDERS       WHITE       TYPE B OR C SHEETING         LEGEND       RED       TYPE B OR C SHEETING         CQUIREMENTS FOR WARNING SIGNS       REQUIREMENTS FOR SCHOOL SIGNS         REQUIREMENTS FOR SCHOOL SIGNS       SCHOOL SPEED LIMIT         SCHOOL SPEED LIMIT       SCHOOL SPEED LIMIT         SCHOOL SPEED LIMIT       SCHOOL SPEED LIMIT         SCHOOL SPEED LIMIT       SCHOOL SPEED LIMIT         SCHOOL SPEED LIMIT       SCHOOL SPEED LIMIT	BACKGROUND WHITE TYPE B OR C SHEETING	
LEGEND     RED     TYPE B OR C SHEETING       CQUIREMENTS FOR WARNING SIGNS     REQUIREMENTS FOR SCHOOL SIGNS	LEGEND & BORDERS WHITE TYPE B OR C SHEETING	
SPEED LIMIT 20 WHEN	REQUIREMENTS FOR WARNING SIGNS	REQUIREMENTS FOR SCHOOL SIGNS
TYPICAL EXAMPLES TYPICAL EXAMPLES	TYPICAL EXAMPLES	SPEED LIMIT 20 WHEN FLASHING
	SHEETING REQUIREMENTS	USAGE COLOR SIGN FACE MATERIAL
ROUND YELLOW FLOW CFL SHEETING	USAGE COLOR SIGN FACE MATERIAL	USAGE COLOR SIGN FACE MATERIAL BACKGROUND WHITE TYPE A SHEETING
	USAGE COLOR SIGN FACE MATERIAL BACKGROUND FLOURESCENT TYPE B <sub>FL</sub> OR C <sub>FL</sub> SHEETING	BACKGROUND WHITE TYPE A SHEETING BACKGROUND FLOURESCENT TYPE B OR C SHEETING
	USAGE     COLOR     SIGN FACE MATERIAL       BACKGROUND     FLOURESCENT YELLOW     TYPE B <sub>FL</sub> OR C <sub>FL</sub> SHEETING       EGEND & BORDERS     BLACK     ACRYLIC NON-REFLECTIVE FILM	BACKGROUND     WHITE     TYPE A SHEETING       BACKGROUND     FLOURESCENT YELLOW GREEN     TYPE B <sub>FL</sub> OR C <sub>FL</sub> SHEETING

# NOTES

be furnished shallbe as detailed elsewhere in the plans and/or as on sign tabulation sheet. Standard sign designs and arrow dimensions found in the "Standard Highway Sign Designs for Texas" (SHSD).

nd shall use the Federal Highway Administration (FHWA) d Highway Alphabets (B, C, D, E, Emod or F).

acing between letters and numerals shall conform with the SHSD, approved changes thereto. Lateral spacing of legend shall provide ed appearance when spacing is not shown.

end and borders shall be applied by screening process or cut-out non-reflective black film to background sheeting, or combination

end and borders shall be applied by screening process with transparent ink, transparent colored overlay film to white background sheeting or white sheeting to colored background sheeting, or combination thereof.

egend shallbe applied by screening process with transparent colored sparent colored overlay film or colored sheeting to background 1, or combination thereof.

trate shall be any material that meets the Departmental Material ation requirements of DMS-7110 or approved alternative.

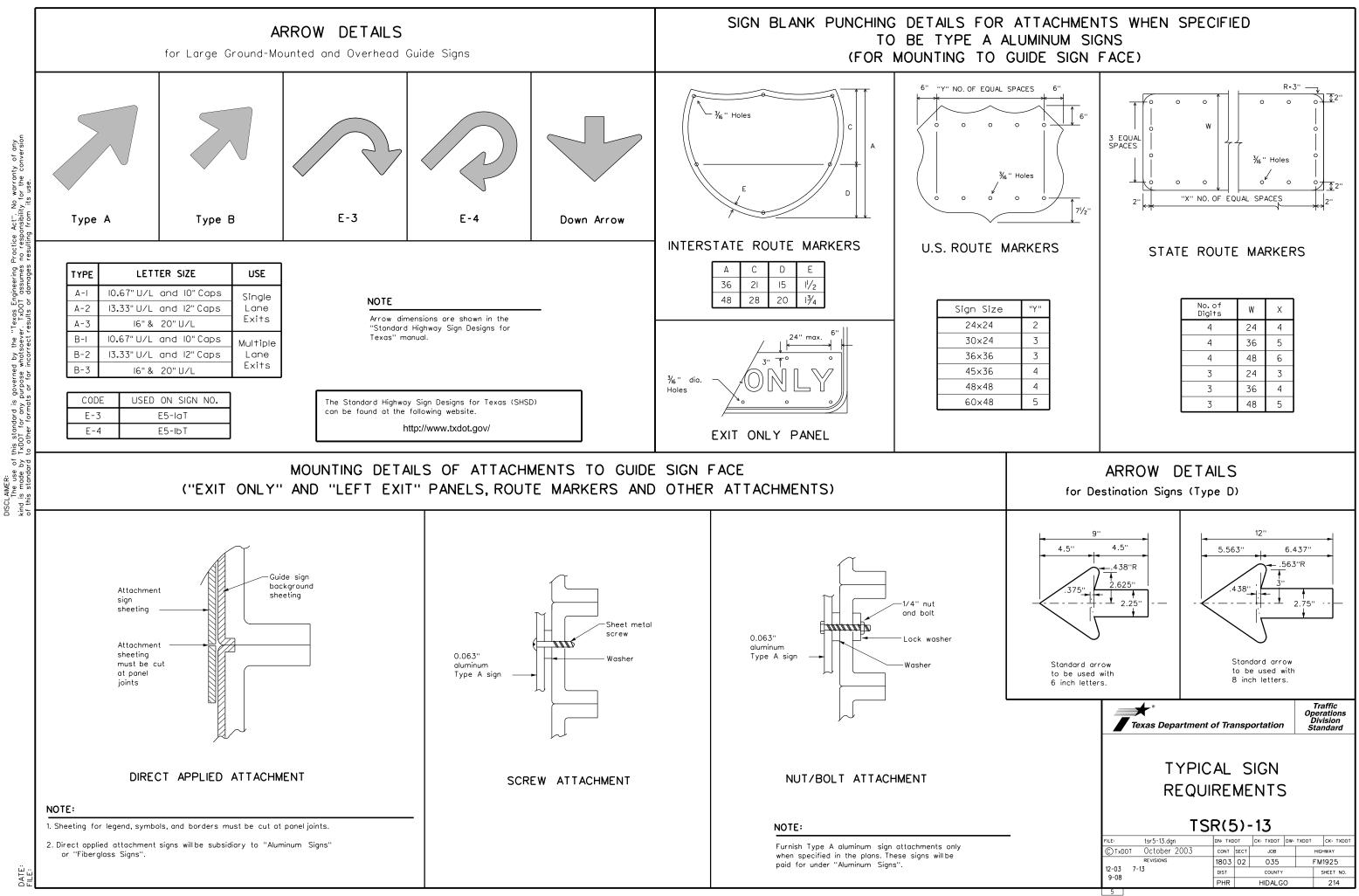
details for roadside mounted signs are shown in the "SMD series" I Plan Sheets.

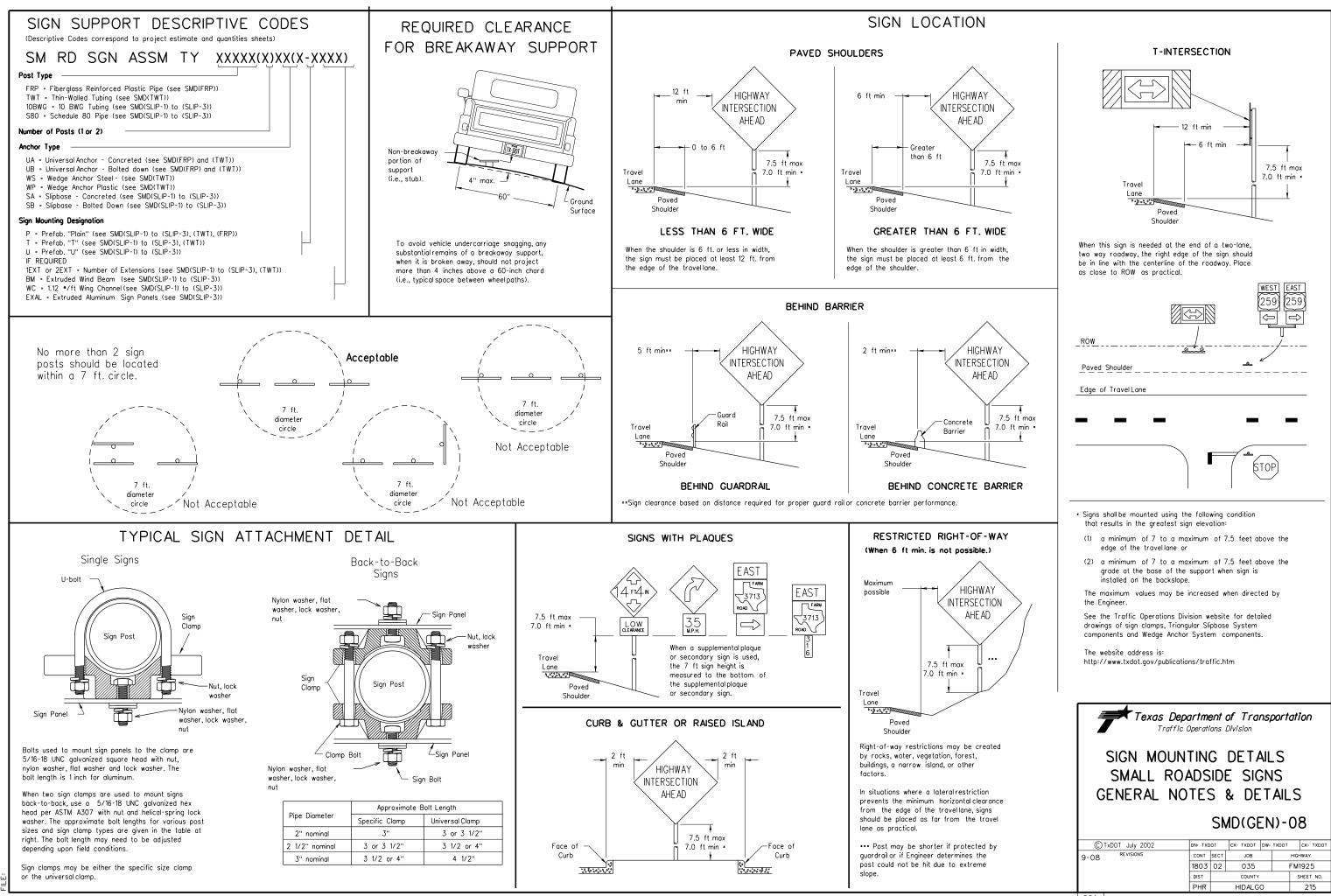
ALUMINUM SIGN BL	ANKS THICKNESS
Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

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/

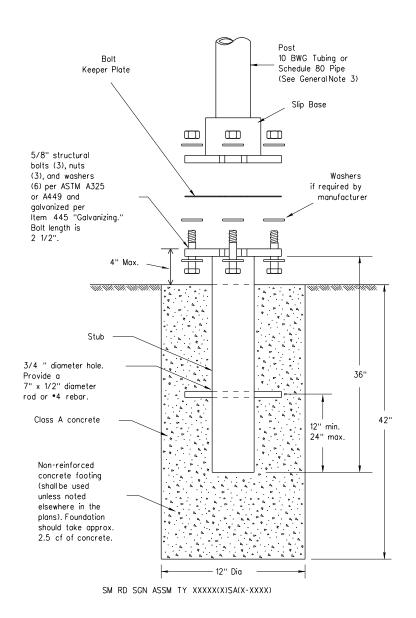
Traffic Operations Texas Department of Transportation Standard							
TYPICAL SIGN							
REQUIREMENTS							
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## TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



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:

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" Schedule 80 Pipe (2.875" outside diameter) 0.276" nominal wall thickness Steel tubing per ASTM A500 Gr C 46,000 PSI minimum yield strength 62,000 PSI minimum tensile strength 21% minimum elongation in 2" Galvanization per ASTM A123 http://www.txdot.gov/publications/traffic.htm ASSEMBLY PROCEDURE

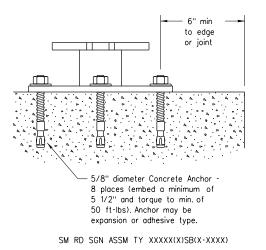
- Foundation

- direction

#### Support

- straiaht.
- clearances based on sign types

CONCRETE ANCHOR



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, "Galvaniz ing." Adhesive type anchors shall have stud bolts installed with Type Ill 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 psinormalweight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

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 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. 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: 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" 3. See the Traffic Operations Division website for detailed drawings of sign clamps and Texas

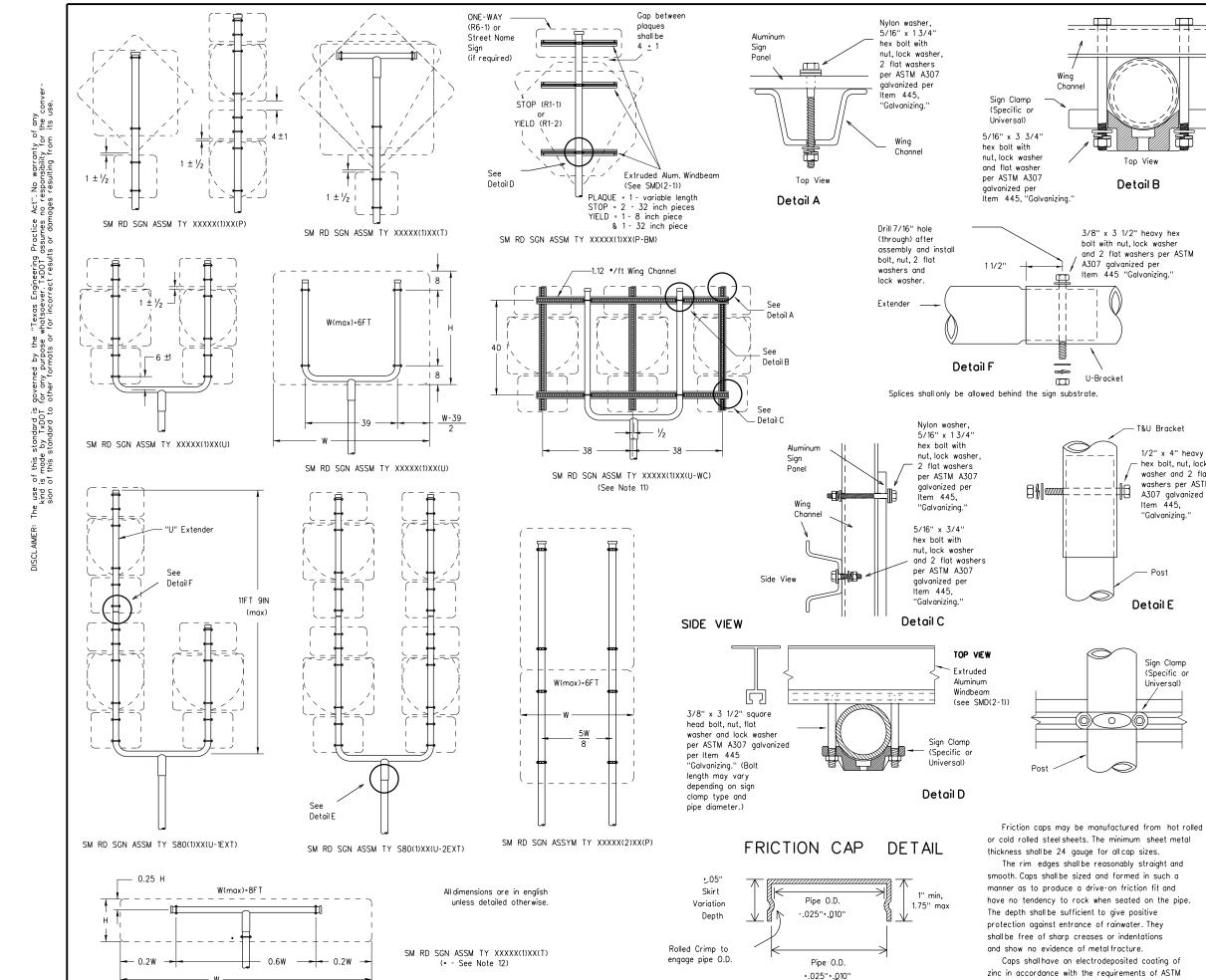
Universal Triangular Slipbase System components. The website address is: 4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

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

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

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

Texas Depo Traffic (				nsļ	porta	ntion
SIGN MOUN SMALL ROA TRIANGULAR SI S	ADS LIPI	BA	E SIC	SN SY	IS ISTI	EM
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DATE:

B633 Class FE/ZN 8.



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Wing

1.1

R

Top View

Detail B

A307 galvanized per

U-Bracket

0

3/8" x 3 1/2" heavy hex bolt with nut, lock washer and 2 flat washers per ASTM

Item 445 "Galvanizing.

#### - T&U Bracket

1/2" x 4" heavy hex bolt, nut, lock washer and 2 flat washers per ASTM A307 galvanized per Item 445. "Galvanizing."

# Post

# Detail E

Sign Clamp (Specific or Universal)

#### GENERAL NOTES:

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.
  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.
- Wind imported by interfact of the other of the other of the other of the other ot
- 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.

	REQUIRED SUPPORT	
	SIGN DESCRIPTION	SUPPORT
	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)
Regulator y	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
Regul	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY \$80(1)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY \$80(1)XX(T)
Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
WC	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

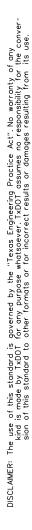
Texas Department of Transportation Traffic Operations Division

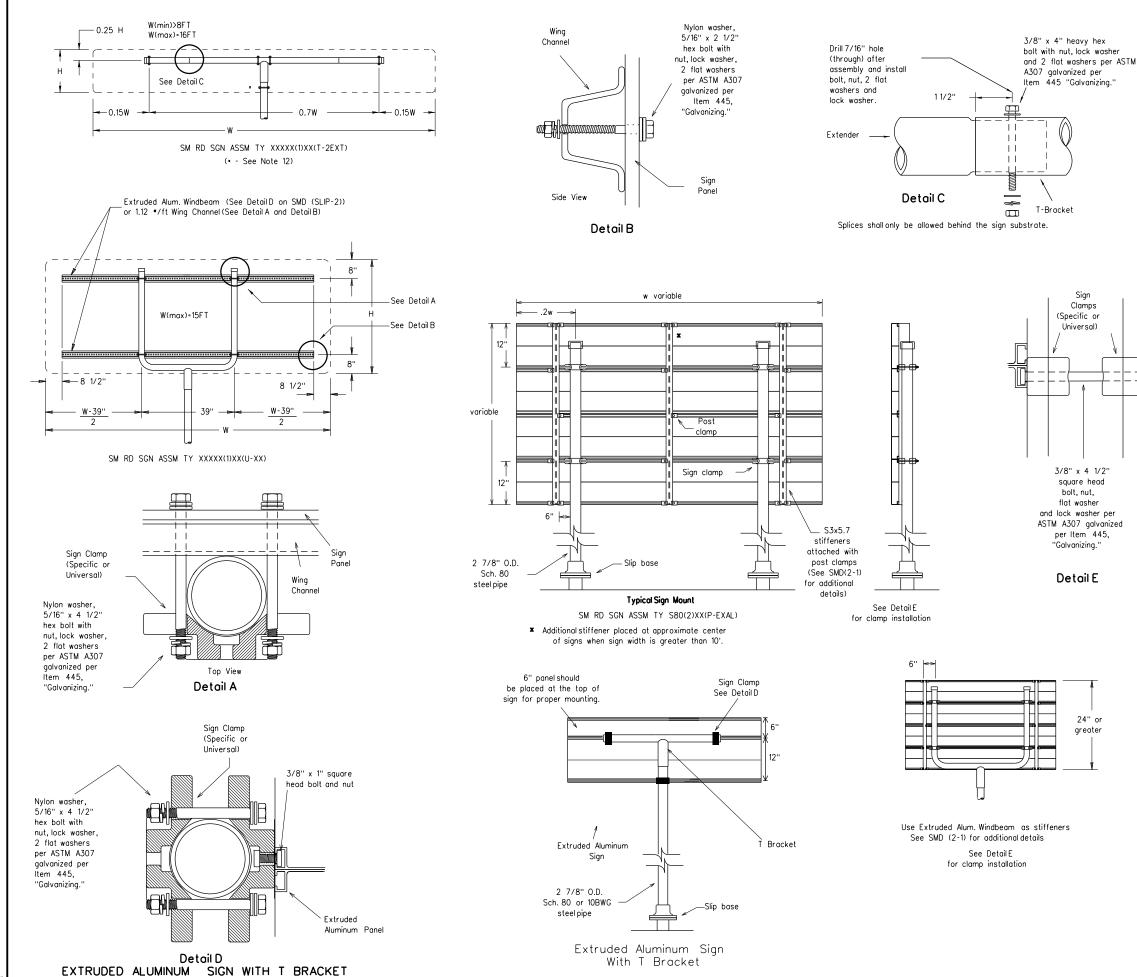
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

## SMD(SLIP-2)-08

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#### GENERAL NOTES:

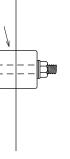
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SIGN SUPPORT	OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

- 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.
  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.
- Wing channelshall meet ASTM A 1011 SS Gr 50 and be galvonized per ASTM A 123.
   Excess pipe, wing channel, or windbeam shall be cut
- off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- 10. Sign blanks shall be the sizes and shapes shown on the plans. 11. Additional sign clamp required on the "T-bracket" post
- for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- 12. Post open ends shall be fitted with Friction Caps.

	REQUIRED SUPPORT	
		CURRART
	SIGN DESCRIPTION	SUPPORT TY 10BWG(1)XX(T)
	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
Regulatory	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(P-BM) TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
Regul	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY \$80(1)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY \$80(1)XX(T)
Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
Wo	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)

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Sign

Clamps

Universal)

square head

bolt nut

flat washer

24" or

greater

## 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):** 1803-02-035

#### 1.2 PROJECT LIMITS:

From: 0.28 MI. E. OF FM 907 (ALAMO RD.)

To: 0.28 MI. E. OF SHARP RD.

#### **1.3 PROJECT COORDINATES:**

- \_,(Long)\_ -98.095869 BEGIN: (Lat) 26.328524
- END: (Lat) 26.324958 (Long) *-98.070956*
- 1.4 TOTAL PROJECT AREA (Acres): 28.02

1.5 TOTAL AREA TO BE DISTURBED (Acres): 28.02

#### **1.6 NATURE OF CONSTRUCTION ACTIVITY:**

For the reconstruction and widening of a non-freeway facility. Consist of grading lime treated subgrade, cement treated flexible base, asphaltic concrete, curb &

gutter, storm sewer, signing, delineation, and pavement markings.

#### **1.7 MAJOR SOIL TYPES:**

Soil Type	Description
Comitas Loamy Fine Sand, 0 to 3% slopes	73.2% sand, 11.9% clay, well drained, low runoff potential, and moderate water erosion potential.
Hebbronville Sandy Loam, 0 to 1% slopes	65.5% sand, 13.8% clay, well drained, low runoff potential, and slight water erosion potential.
Hidalgo Sandy Clay Loam, 0 to 1% slopes	40.1% sand, 27% clay, well drained, moderate runoff rate, and slight water erosion potential.
Hidalgo Fine Sandy Loam, 0 to 1% slopes	38.4% sand, 29% clay, well drained, moderate runoff rate, and slight water 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
- X PSLs determined during construction
- No PSLs planned for construction

Туре	Sheet #s
All off-ROW PSLs required by th responsibility. The Contractor sh	ne Contractor are the Contractor's nall 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.)
X Mobilization
X Install sediment and erosion controls
${\tt X}$ Blade existing topsoil into windrows, prep ROW, clear and gru
X Remove existing pavement
X Grading operations, excavation, and embankment
X Excavate and prepare subgrade for proposed pavement widening
X Remove existing culverts, safety end treatments (SETs)
□ Remove existing metal beam guard fence (MBGF), bridge rail
X Install proposed pavement per plans
X Install culverts, culvert extensions, SETs
Install mow strip, MBGF, bridge rail
X Place flex base
X Rework slopes, grade ditches
Blade windrowed material back across slopes
Revegetation of unpaved areas
X Achieve site stabilization and remove sediment and erosion control measures
Other:

Other:

Other:

1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR         X Day To Day Operational Control         X Submit Notice of Intent (NOI) to TCEQ (≥5 acres)         X Post Construction Site Notice         X Submit NOI/CSN to local MS4         X Maintain schedule of major construction activities         X Install, maintain and modify BMPs         X Complete and submit Notice of Termination to TCEQ         X Maintain SWP3 records for 3 years         Other:
1.14 LOCAL MUNICIPAL SEPARATE STORM SEWER
SYSTEM (MS4) OPERATOR COORDINATION:
MS4 Entity
Hidalgo County Drainage District No. 1

4 40 DOTENTIAL DOLLUTAN		1.13 ROLES AND RESPONSIBILITIES: CONTRACTOR
1.10 POTENTIAL POLLUTAN X Sediment laden stormwater fro disturbed area	<b>IS AND SOURCES:</b> m stormwater conveyance over construction vehicles, equipment,	X Day To Day Operational Control X Submit Notice of Intent (NOI) to TCEQ (≥5 acres)
and storage		X Post Construction Site Notice
Solvents, paints, adhesives, etc		X Submit NOI/CSN to local MS4
Transported soils from offsite v	-	X Maintain schedule of major construction activities X Install, maintain and modify BMPs
X Construction debris and waste activities	from various construction	X Complete and submit Notice of Termination to TCEQ
X Contaminated water from exca	vation or dewatering pump-out	X Maintain SWP3 records for 3 years
water IX Sanitary waste from onsite res	troom facilities	Other:
X Trash from various construction		
X Long-term stockpiles of materia	al and waste	Other:
A		Other:
X Other: <u>Significant material store</u>	age	
Other:		1.14 LOCAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) OPERATOR COORDINATION:
		MS4 Entity
□ Other:		Hidalgo County Drainage District No. 1
1.11 RECEIVING WATERS:		
Receiving waters must be depicte Sheets in Attachment 1.2 of this s		
receiving waters.	-	
Tributaries	Classified Waterbody	
	The Laguna Madre (2491); Impared	
Main Floodwater Channel	for bacteria and depressed dissolved oxygen	
	oxygen	
NO TMDLs or I-PLAN	oxygen IS WERE IDENTIFIED S with pollutant in ().	
NO TMDLs or I-PLAN	oxygen IS WERE IDENTIFIED s with pollutant in (). BILITIES: TxDOT	
NO TMDLs or I-PLAN * Add (*) for impaired waterbodie: 1.12 ROLES AND RESPONSI X Development of plans and spe	oxygen IS WERE IDENTIFIED s with pollutant in (). BILITIES: TxDOT cifications	
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NO TMDLs or I-PLAN	oxygen IS WERE IDENTIFIED s with pollutant in (). BILITIES: TxDOT cifications	STORMWATER POLLUTIO PREVENTION PLAN (SWP3
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* Add (*) for impaired waterbodie <b>1.12 ROLES AND RESPONSI</b> X Development of plans and spe X Submit Notice of Intent (NOI) to X Post Construction Site Notice X Submit NOI/CSN to local MS4 X Perform SWP3 inspections X Maintain SWP3 records and up X Complete and submit Notice oo X Maintain SWP3 records for 3 y	oxygen  S WERE IDENTIFIED  s with pollutant in (). BILITIES: TxDOT cifications o TCEQ (≥5 acres)  odate to reflect daily operations f Termination to TCEQ	PREVENTION PLAN (SWP3
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* Add (*) for impaired waterbodie <b>1.12 ROLES AND RESPONSII</b> X Development of plans and spe X Submit Notice of Intent (NOI) to X Post Construction Site Notice X Submit NOI/CSN to local MS4 X Perform SWP3 inspections X Maintain SWP3 records and up X Complete and submit Notice of X Maintain SWP3 records for 3 y Other:	oxygen  S WERE IDENTIFIED  S with pollutant in ().  BILITIES: TxDOT  cifications o TCEQ (≥5 acres)  odate to reflect daily operations f Termination to TCEQ rears	PREVENTION PLAN (SWP3 <sup>©</sup> <sup>2023</sup> * July 2023 Sheet 1 of 2 Texas Department of Transportation

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#### **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

- □ □ Protection of Existing Vegetation
- □ □ Vegetated Buffer Zones
- □ □ Soil Retention Blankets
- □ □ Geotextiles
- □ □ Mulching/ Hydromulching
- □ □ Soil Surface Treatments
- □ X Temporary Seeding
- □ X Permanent Planting, Sodding or Seeding
- □ □ Biodegradable Erosion Control Logs
- Rock Filter Dams/ Rock Check Dams
- □ □ Vertical Tracking
- Interceptor Swale
- X 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**
- X 🗆 Inlet Protection
- X 🗆 Rock Filter Dams/ Rock Check Dams
- □ □ Sandbag Berms
- X 

  Sediment Control Fence
- X 

  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
  - $\Box$  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

□ Other:

- □ Required (>10 acres), but not feasible due to:
- □ Available area/Site geometry
- □ Site slope/Drainage patterns
- □ Site soils/Geotechnical factors
- Public safetv

#### 2.3 PERMANENT CONTROLS:

(Coordinate post-construction BMPs with appropriate TxDOT maintenance sections.)

BMPs To Be Left In Place Post Construction:

Туро	Stationing				
Туре	From	То			
No permanent contro	ls are planned				
Refer to the Environmental Layo ocated in Attachment 1.2 of this		Layout Sheets			

#### 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 X Daily street sweeping
- Other:

Other:

Other:\_\_\_\_\_

#### Other:

#### 2.5 POLLUTION PREVENTION MEASURES:

- X Chemical Management
- X Concrete and Materials Waste Management
- X Debris and Trash Management
- X Dust Control
- X Sanitary Facilities
- □ Other:\_\_\_\_\_

Other: \_\_\_\_\_\_

□ Other:

#### 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.

□ Other:

Тура	Stati	oning
Туре	From	То
No surface waters pres buffer zones are not		

## 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.

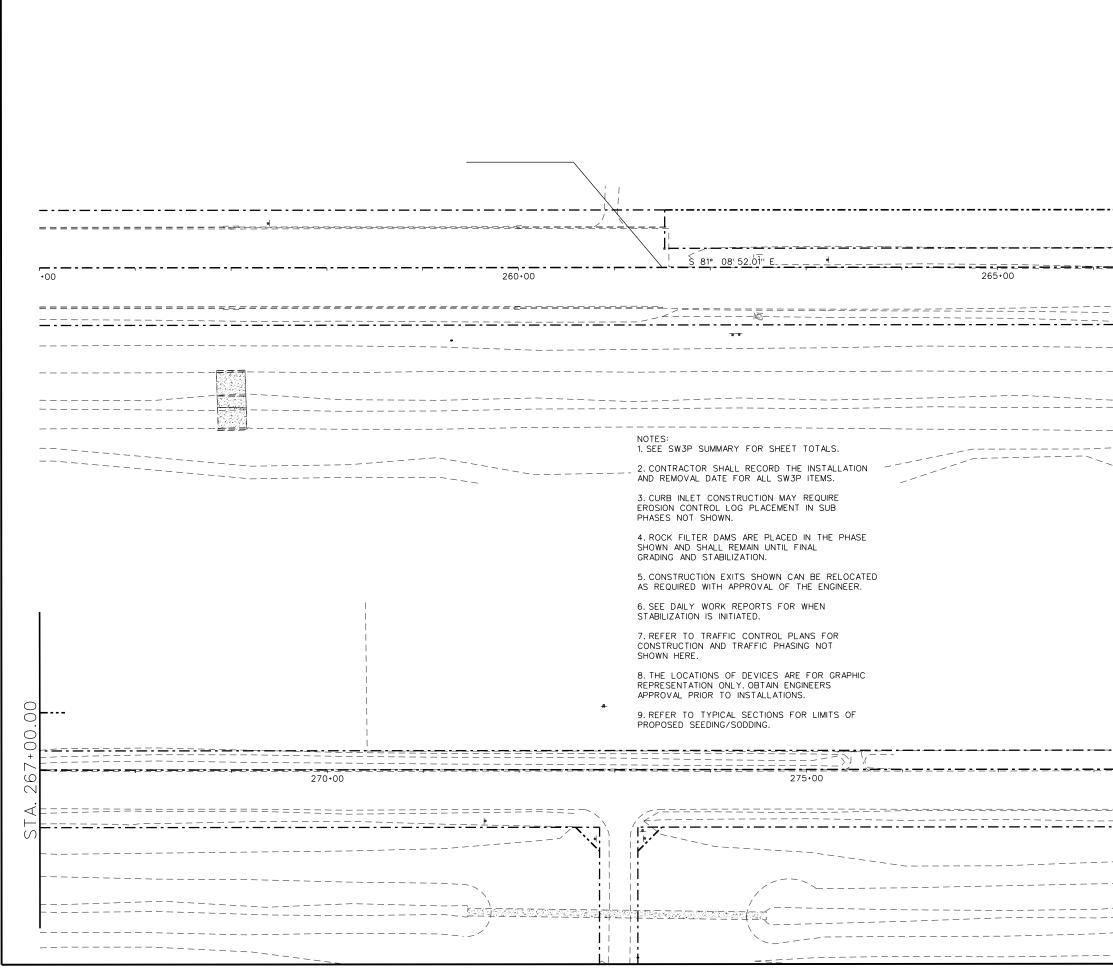
**2.10 MAINTENANCE:** Control measures shall be properly installed according to specifications. If it is determined that a BMP or control measure is not operating effectively, maintenance must be accomplished as soon as possible and before the next anticipated rain event, but in no case later than 7 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.

## **STORMWATER POLLUTION PREVENTION PLAN (SWP3)**

<sup>© 2023</sup> July 2023 Sheet 2 of 2

Texas Department of Transportation

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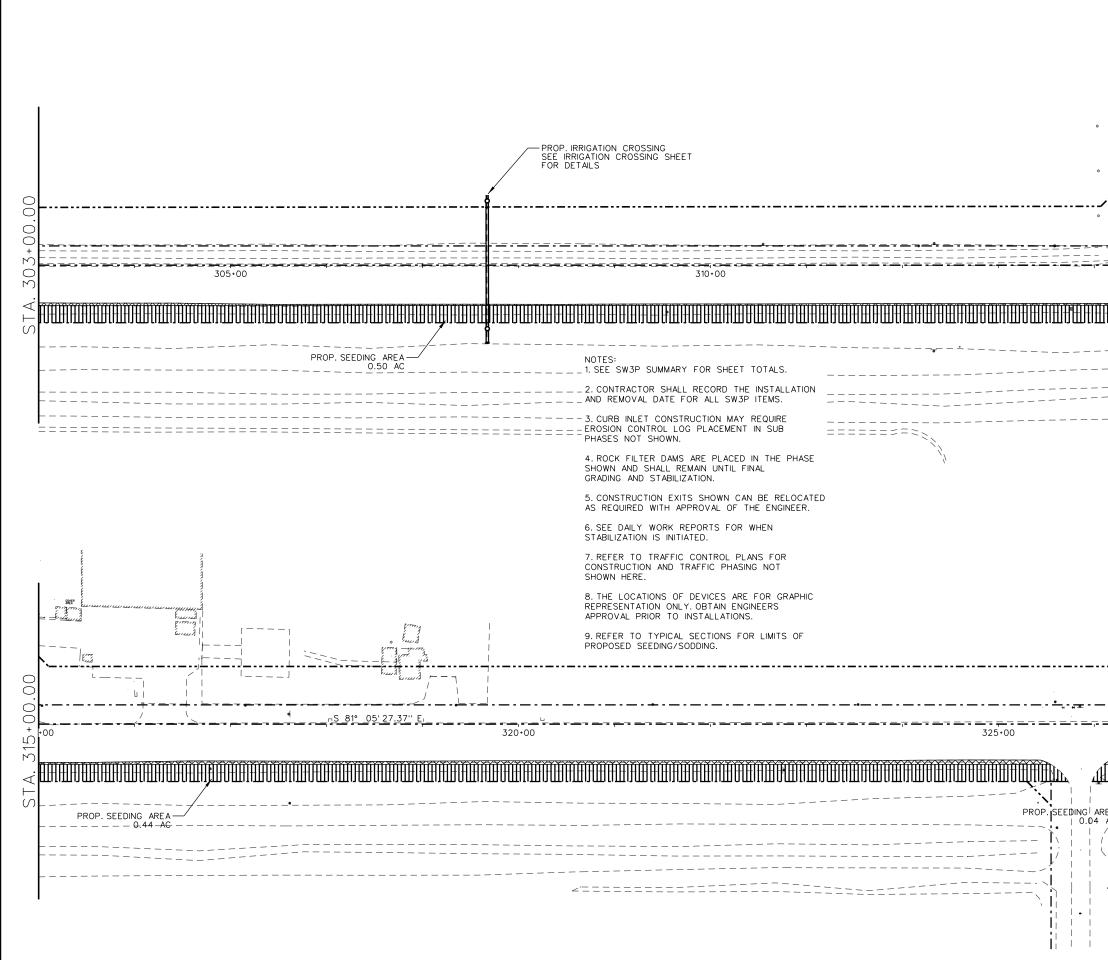
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	164	CELL FBR MLCH	SEED (TEMP)(WARM)	AC -
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		BMP DL-ST XX'	PROP. DITCH LINE SEDIMI	
		BMP RFD1 XX'	PROP. ROCK FILTER DAM	1 (TYPE 1)
		BMP SCF XX'	(LF) PROP. SEDIMENT CONTRO	) FENCE
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	NOTES: 1. SEE SW3P SUMMARY FOR SHEET TOTALS 2. CONTRACTOR SHALL RECORD THE INSTALLATION AND REMOVAL DATE FOR ALL SW3P ITEMS 3. CURB INLET CONSTRUCTION MAY REQUIRE EROSION CONTROL LOG PLACEMENT IN SUB PHASES NOT SHOWN.	
BMP ID     DATE INSTALL     DATE REMOVE       BMP 1	<ol> <li>ROCK FILTER DAMS ARE PLACED IN THE PHASE SHOWN AND SHALL REMAIN UNTIL FINAL GRADING AND STABILIZATION.</li> <li>CONSTRUCTION EXITS SHOWN CAN BE RELOCATED AS REQUIRED WITH APPROVAL OF THE ENGINEER.</li> <li>SEE DAILY WORK REPORTS FOR WHEN STABILIZATION IS INITIATED.</li> <li>REFER TO TRAFFIC CONTROL PLANS FOR CONSTRUCTION AND TRAFFIC PHASING NOT SHOWN HERE.</li> <li>THE LOCATIONS OF DEVICES ARE FOR GRAPHIC</li> </ol>	
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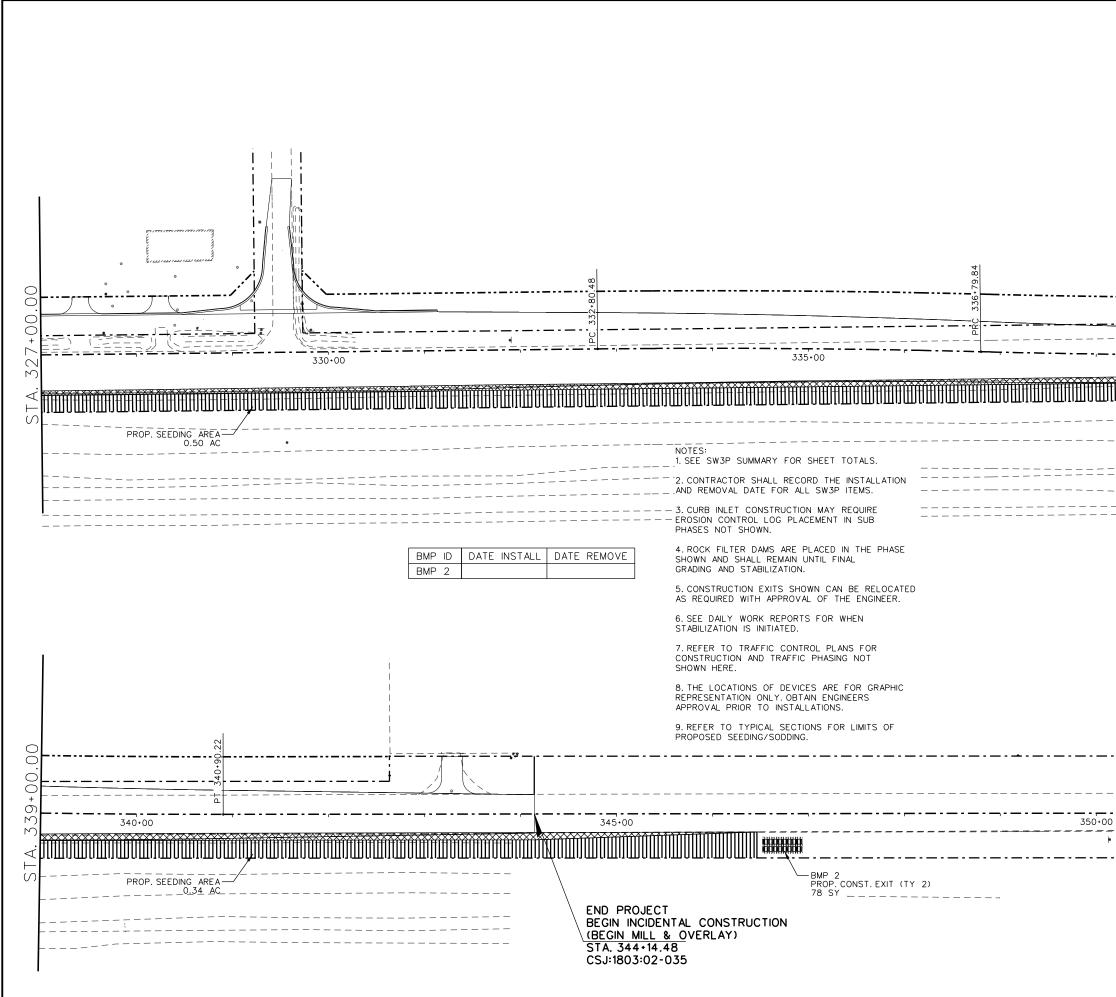
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	SHEET SUMMARY						
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		BMP DL-ST XX'	PROP. DITCH LINE SEDIM (LF)				
		BMP_RFD1_XX'	PROP.ROCK FILTER DAM (LF)	1 (TYF	PE 1)		
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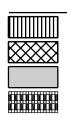
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	SHEET SUMMARY		
ITEM	DESCRIPTION	UNIT	QUANTITY
164	CELL FBR MLCH SEED (TEMP)(WARM)	AC	0.84
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	-
506	ROCK FILTER DAMS (REMOVE)	LF	-
506	CONSTRUCTION EXITS (INSTALL)(TY 2)	SY	78
506	CONSTRUCTION EXITS (REMOVE)	SY	78
506	BIOGRD EROSN CONT LOGS (6" DIA) INSTALL	LF	-
506	BIOGRD EROSN CONT LOGS (12" DIA) INSTALL	LF	-
506	BIOGRD EROSN CONT LOGS REMOVE	LF	-
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	-
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	-
		-	



## LEGEND

PROP. SEEDING AREA TEMPORARY CONST. DETOUR PREVIOUSLY CONSTRUCTED PROP. CONSTRUCTION EXIT (TY 2)

BMP CI-ST XX'
BMP DI-ST XX'
BMP DL-ST XX'
BMP RFD1 XX'
BMP SCF XX'

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PROP. CURB INLET SEDIMENT TRAP I.D AND LENGTH (LF) PROP. DROP INLET SEDIMENT TRAP I.D. AND LENGTH (LF) PROP. DITCH LINE SEDIMENT TRAP PROP. ROCK FILTER DAM (TYPE 1) (LF) PROP. SEDIMENT CONTROL FENCE





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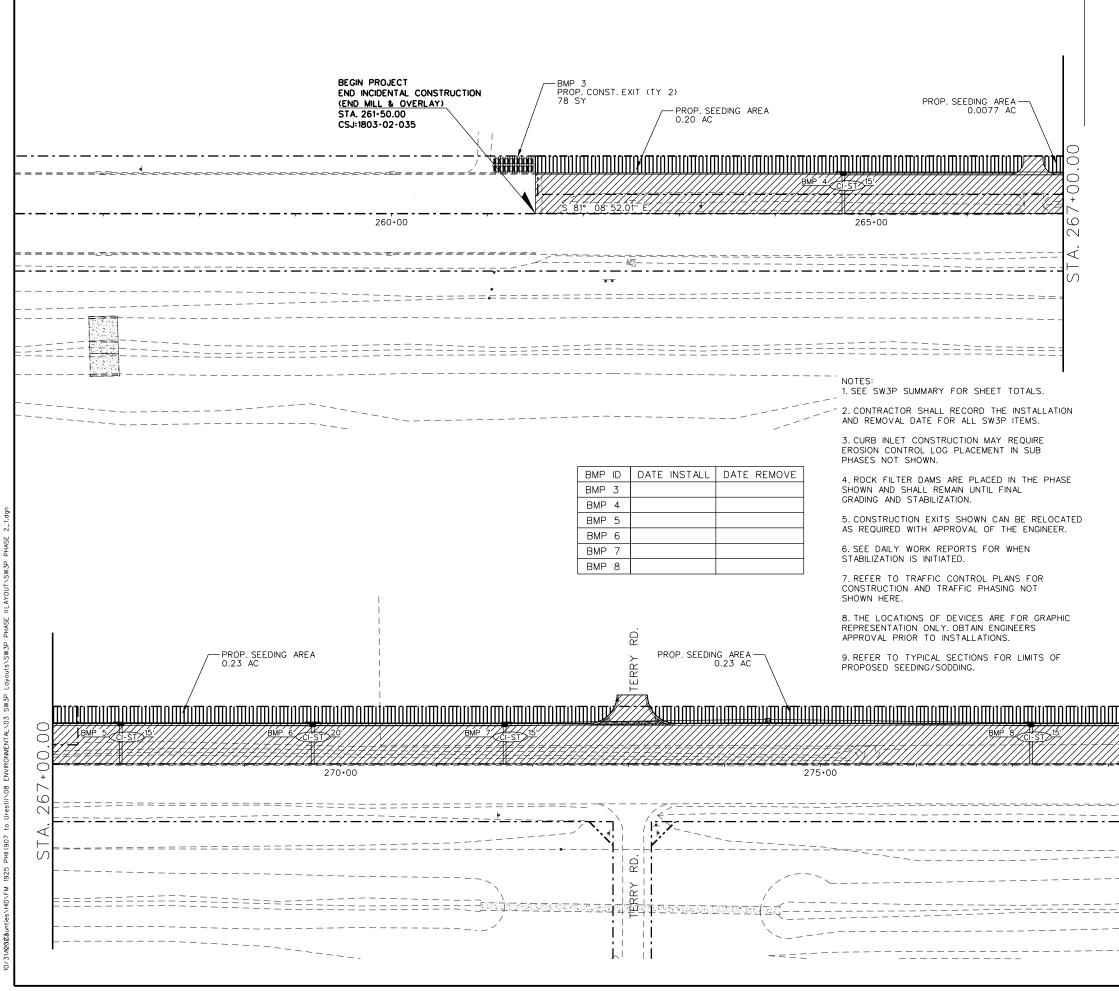


Fax (956) 565-9018

900 S. Stewart Rd., Ste. 10 Mission, TX, 78572 Phone: (956) 585-1909 Fax: (956) 585-1927

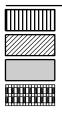
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164	CELL FBR MLCH SEED (TEMP)(WARM)	AC	0.67					
166	FERTILIZER ***NON-PAY***	TON	0.17					
168	VEGETATIVE WATERING	MG	102					
506	ROCK FILTER DAMS (INSTALL) (TY 2)	LF	-					
506	ROCK FILTER DAMS (REMOVE)	LF	-					
506	CONSTRUCTION EXITS (INSTALL)(TY 2)	SY	78					
506	CONSTRUCTION EXITS (REMOVE)	SY	78					
506	BIOGRD EROSN CONT LOGS (6" DIA) INSTALL	LF	80					
506	BIOGRD EROSN CONT LOGS (12" DIA) INSTALL	LF	-					
506	BIOGRD EROSN CONT LOGS REMOVE	LF	80					
506	TEMP SEDMT CONT FENCE (INSTALL)	LF	-					
506	TEMP SEDMT CONT FENCE (REMOVE)	LF	-					



#### LEGEND

PROP. SEEDING AREA CONSTRUCTION PHASE PREVIOUSLY CONSTRUCTED PROP. CONSTRUCTION EXIT (TY 2)

BMP CI-ST XX'	
BMP DI-ST XX'	
BMP DL-ST XX'	
BMP RFD1 XX'	
BMP SCF XX'	

PROP. CURB INLET SEDIMENT TRAP PROP. DROP INLET SEDIMENT TRAP I.D. AND LENGTH (LF) PROP. DITCH LINE SEDIMENT TRAP PROP. ROCK FILTER DAM (TYPE 1) (LF) PROP. SEDIMENT CONTROL FENCE





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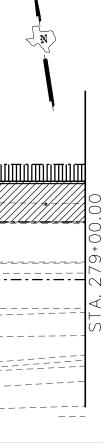
L&G Engineering 2100 W. Expressway 83 Mercedes, TX. 78570 Phone : (956) 565-9813 Highway / Civil Structural / Bridge Environmental Firm No. : F-4105

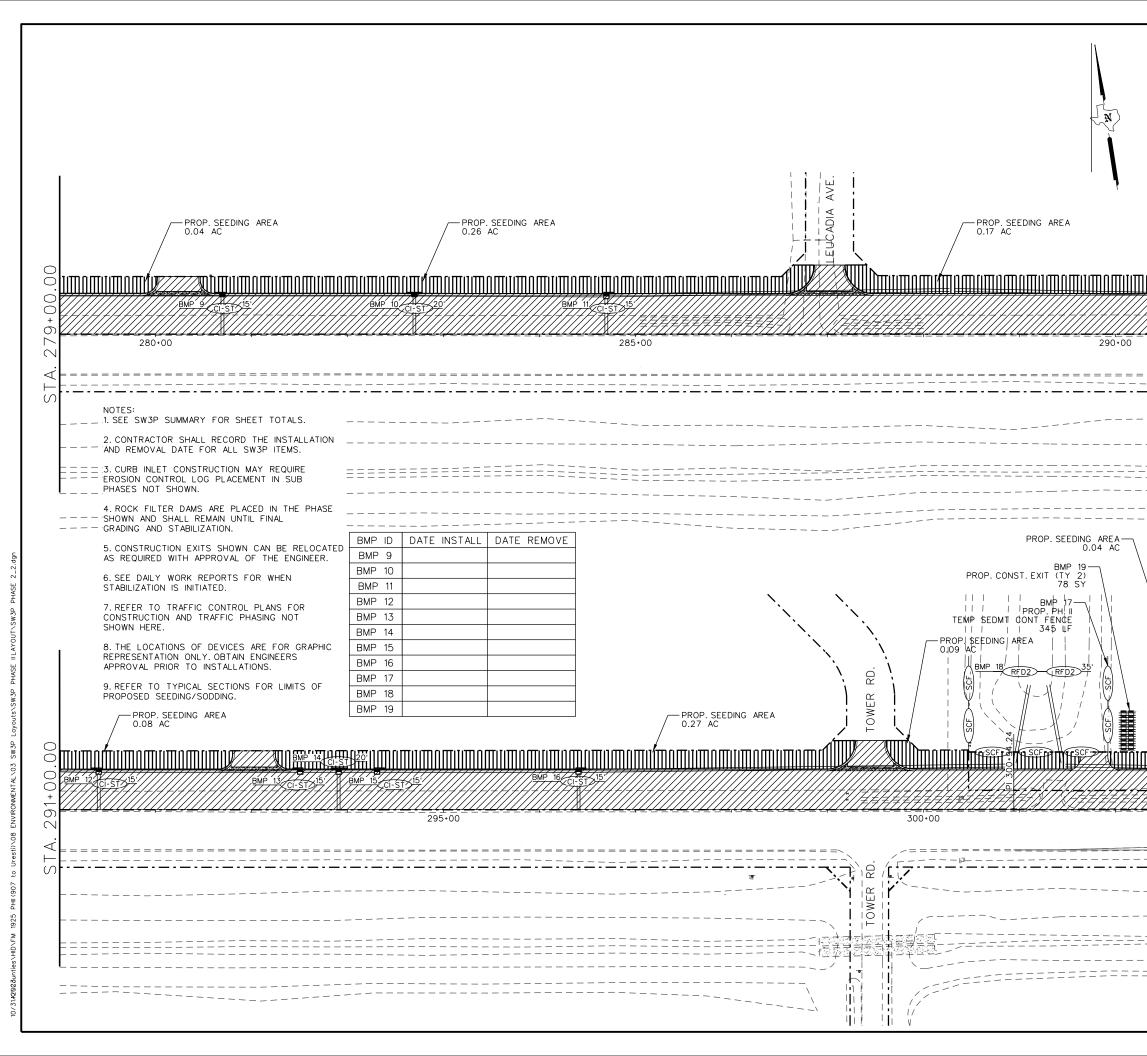
Fax (956) 565-9018

900 S. Stewart Rd., Ste. 10 Mission, TX, 78572 Phone: (956) 585-1909 Fax: (956) 585-1927

# FM 1925 SW3P LAYOUT PHASE II STA. 255+00 TO STA. 279+00

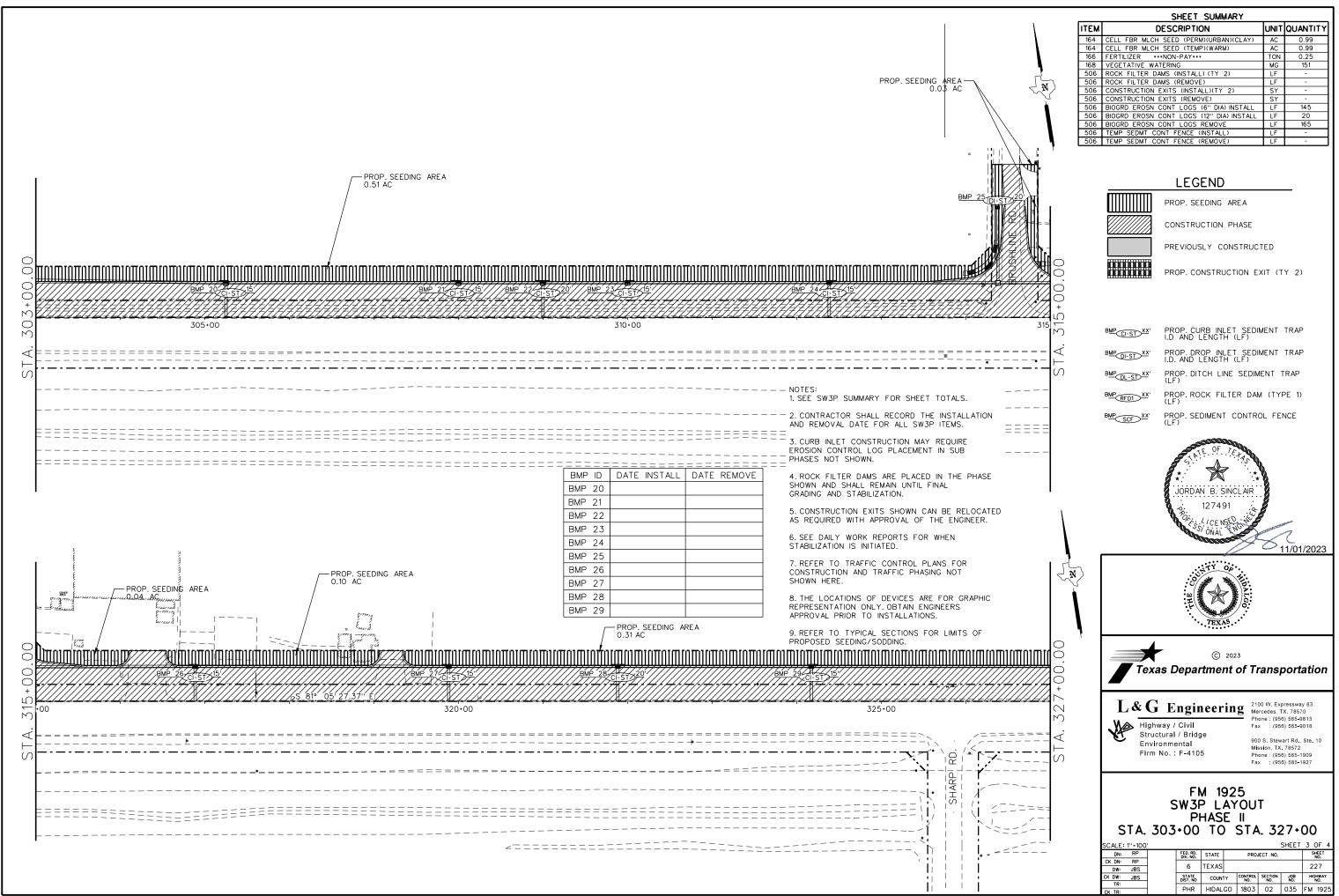
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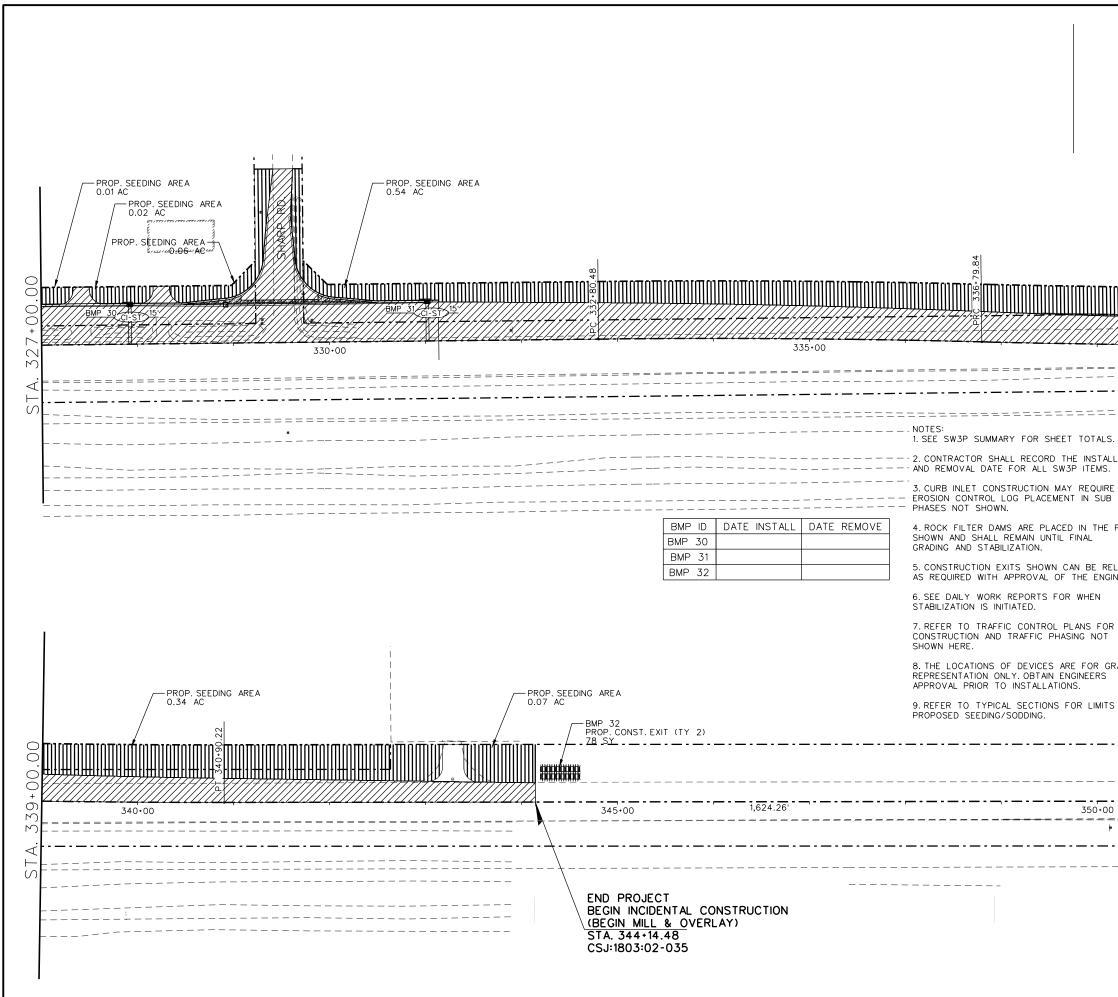


	ITEM	DESCRIPTION		UNIT	QUANTITY
	164		SEED (PERM)(URBAN)(CLAY)	AC	0.95
	164 166		SEED (TEMP)(WARM)	AC TON	0.95
	168	VEGETATIVE WA	TERING	MG	14.5
	506 506	ROCK FILTER D	AMS (INSTALL) (TY 2)	LF	35
	506	ROCK FILTER D. CONSTRUCTION	AMS (REMOVE) EXITS (INSTALL)(TY 2)	LF SY	35 78
	506		EXITS (REMOVE)	SY	78
	506 506		CONT LOGS (6" DIA) INSTALL CONT LOGS (12" DIA) INSTALL	LF LF	- 130
	506	BIOGRD EROSN CONT LOGS REMOVE TEMP SEDMT CONT FENCE (INSTALL)			130
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		SCALE: 1"-100' DN: RP CK DN: RP DW: JBS CK DW: JBS TR: CK TR:	6 TEXAS	CT NO.	HEET 2 OF 4 SHEET NO. 226 JOB HIGHWAY NO. 035 FM 1925

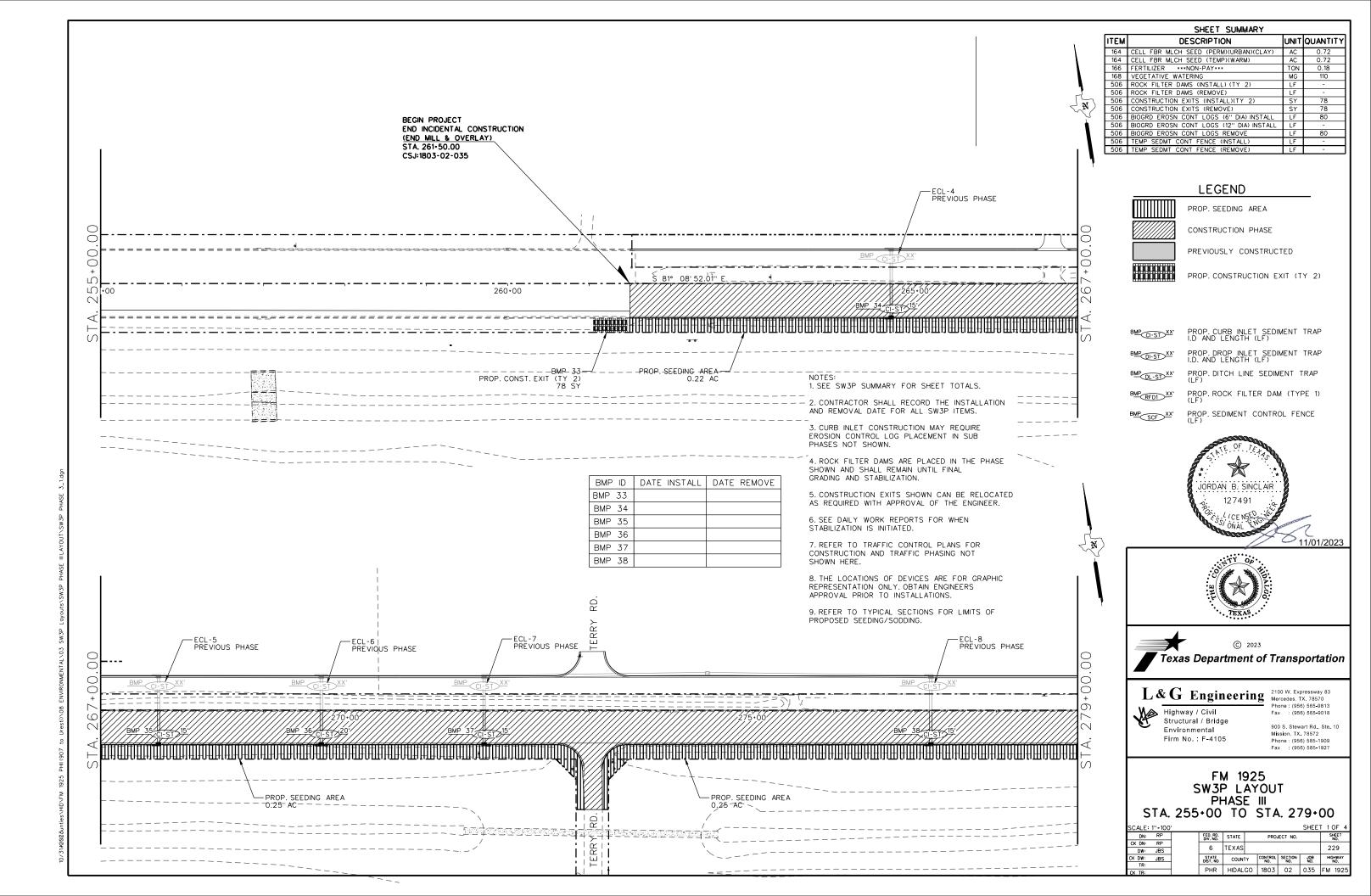
SHEET SUMMARY

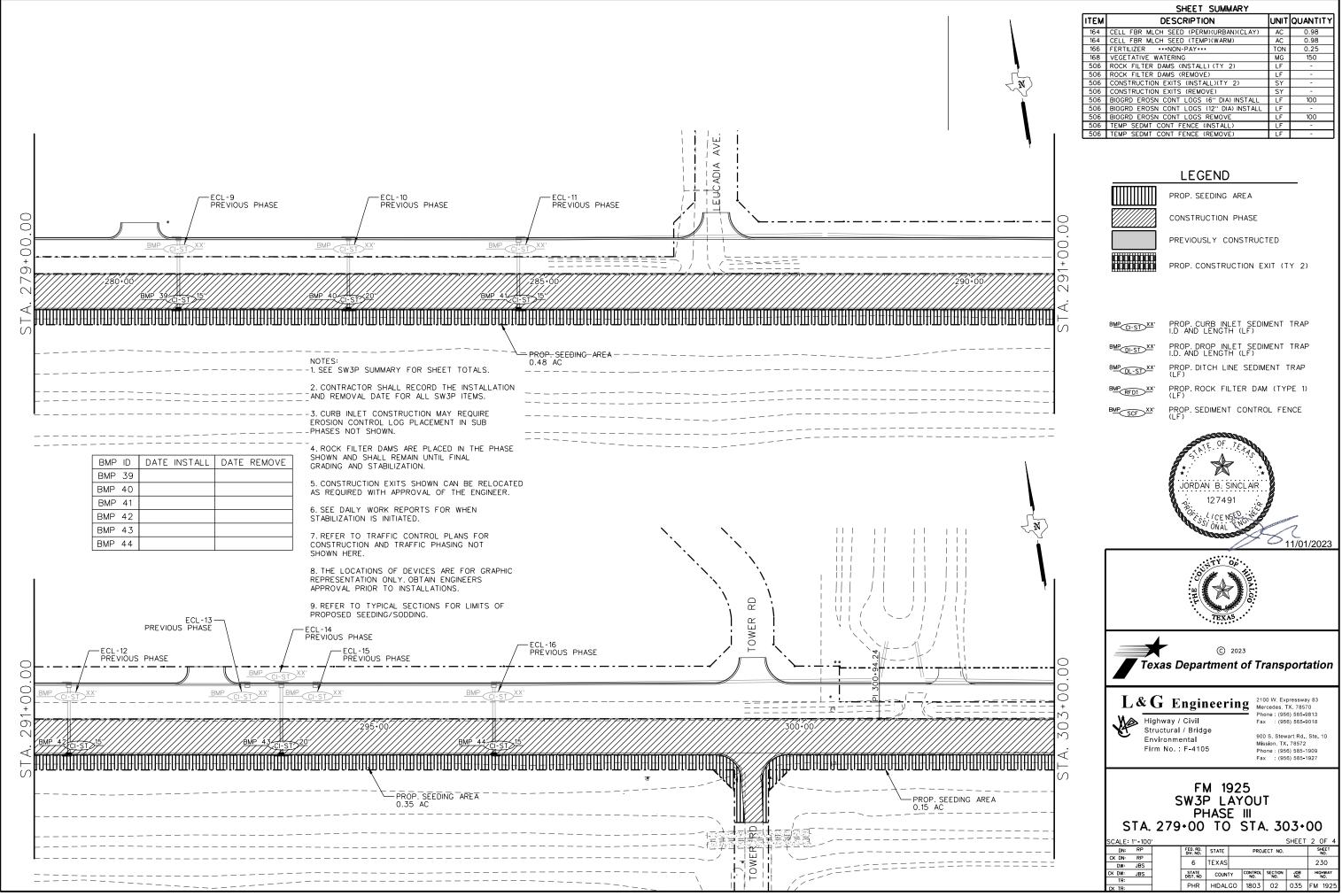


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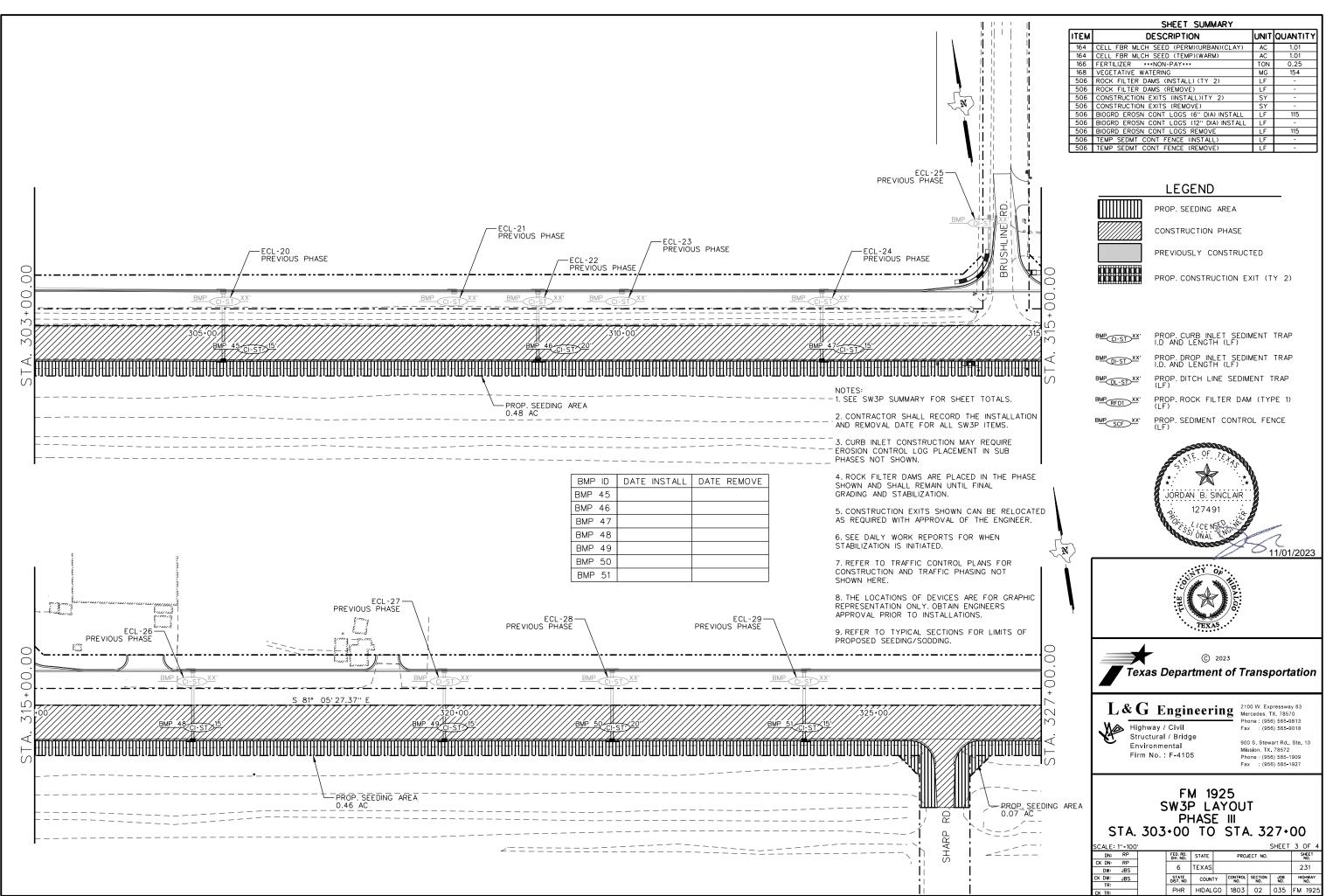


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		CELL FBR MLCH	SEED (PERM)(URBAN)(CLAY)	AC AC	1.04
	166 F	ERTILIZER ***		TON	0.26
1		VEGETATIVE WAT ROCK FILTER DAM	ERING MS (INSTALL) (TY 2)	MG LF	159 -
		ROCK FILTER DA	MS (REMOVE) XITS (INSTALL)(TY 2)	LF SY	- 78
	506 C	CONSTRUCTION E	XITS (REMOVE)	SY	78
Ŋ			ONT LOGS (6" DIA) INSTALL	LF LF	- 30
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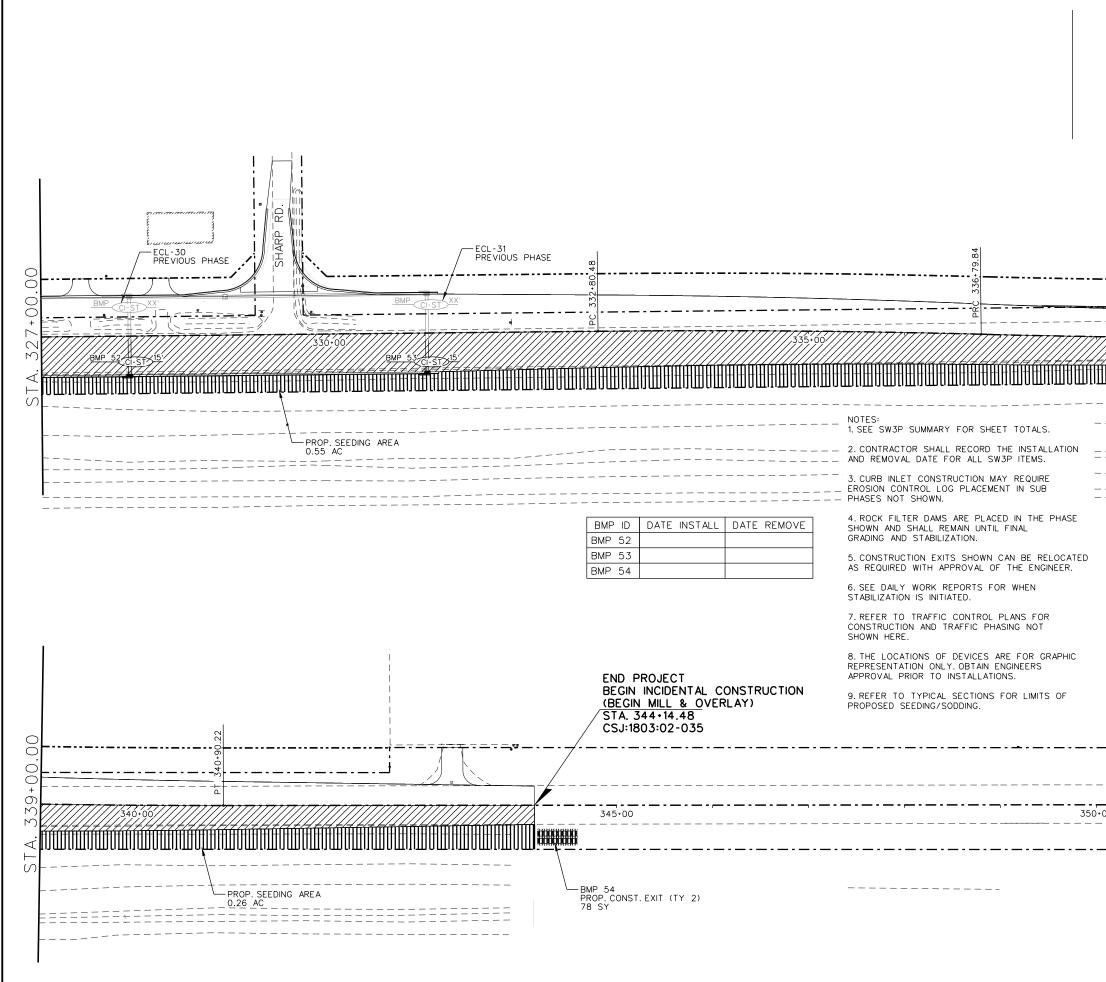




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	SHEET SUMMARY		
	ITEM DESCRIPTION		QUANTITY
	164 CELL FBR MLCH SEED (PERM)(URBAN)(CLAY) 164 CELL FBR MLCH SEED (TEMP)(WARM)	AC AC	0.81
	164 CELL FBR MLCH SEED (TEMP)(WARM) 166 FERTILIZER ***NON-PAY***	TON	0.81
l l	168 VEGETATIVE WATERING	MG	124
	506 ROCK FILTER DAMS (INSTALL) (TY 2)	LF	-
N	506 ROCK FILTER DAMS (REMOVE) 506 CONSTRUCTION EXITS (INSTALL)(TY 2)	LF SY	- 78
$\sim$	506 CONSTRUCTION EXITS (REMOVE)	SY	78
	506 BIOGRD EROSN CONT LOGS (6" DIA) INSTALL		30
	506 BIOGRD EROSN CONT LOGS (12" DIA) INSTAL 506 BIOGRD EROSN CONT LOGS REMOVE	L LF LF	- 30
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	BMP SCF XX PROP. SEDIMENT CONT	ROL FEN	ICE
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#### TPWD BMPs

Under Section 12.0011 of the Texas Parks and Wildlife Code, Texas Parks and Wildlife Department (TPWD) is charged with "providing recommendations that will protect fish and wildlife resources to local, state, and federal agencies that approve, permit, license, or construct developmental projects" and "providing information on fish and wildlife resources to any local, state, and federal agencies or private organizations that make decisions affecting those resources."

The purpose of this section is to provide beneficial management practices (BMP) that should be implemented during construction, and maintenance activities statewide for transportation projects with the goal of avoidance and minimization of impacts to natural resources. Statewide Standard BMP pertain to all fish and wildlife species, including state-listed species and other Species of Greatest Conservation Need (SGCN). Implementing the recommendations as outlined below will improve conservation of species and their habitat.

- Seneral Design/Construction BMPs
  - Prior to start of construction, information will be provided to personnel of the potential for all state-listed threatened species or other SGCN to occur within the project area and should be advised of relevant rules and regulations to protect plants, fish, and wildlife.
  - Contractor should avoid harming all wildlife species if encountered and allow them to safely leave the project site. Due diligence should be used to avoid killing or harming any wildlife species in the implementation of transportation projects.
  - Contractors should install wildlife exclusion fencing and should examine the inside of the exclusion area daily to determine if any wildlife species have been trapped inside the area of impact and provide safe egress opportunities prior to initiation of construction activities.
  - Apply hydromulching and/or hydroseeding in areas for soil stabilization and/or revegetation of disturbed areas around wetlands and in riparian areas.
  - Contractor should use woven natural fiber netting in which the mesh design allows the threads to move, therefore allowing expansion of the mesh openings. Plastic netting should be avoided.
  - Project staging areas, stockpiles, temporary construction easements, and other project related sites should be situated in previously disturbed areas to avoid or minimize impacts to sensitive or unique habitats including intact native vegetation, floodplains, riparian corridors, wetlands, playa
  - lakes, and habitat for wildlife species. pollution and incorporating dark-sky practices into design strategies. Minimize sky glow by focusing light downward, with full cutoff luminaries to avoid light emitting above the horizontal. The minimum amount of night-time lighting needed for safety and security should be used.
- 🗙 Vegetation BMPs
  - Minimize the amount of vegetation cleared. Removal of native vegetation, particularly mature native trees and shrubs should be avoided. Impacted vegetation should be replaced with in-kind on- site replacement /restoration of native vegetation.
  - It is strongly recommended that trees greater than 12 inches in diameter at breast height (DBH) that are removed be replaced. TPWD $\frac{1}{32}$  s experience indicates that for ecologically effective replacement, a ratio of three trees for every one (3:1) lost should be provided to either on-site or off-site. Trees less
  - than 12 inches DBH should be replaced at a 1:1 ratio. The use of any non-native vegetation in landscaping and X revegetation is discouraged. Locally adapted native species should be used.
  - X The use of seed mix that contains seeds from only regional ecotype native species is recommended

#### □ Invasive Species BMPs

- For all work in water bodies designated as  $\frac{3}{32}$  infested $\frac{5}{32}$  or  $\frac{3}{32}$  positive $\frac{5}{32}$  for invasive zebra (Dreissena polymorpha) OR quagga mussels (Dreissena bugensis) as well as waters downstream of these lakes, all machinery, equipment, vessels, or vehicles coming in contact with such waters should be cleaned prior to leaving the site to remove any mud, plants, organisms, or debris, water drained (if applicable), and dried completely before use in another water body to prevent the potential spread of invasive mussels. Care should be taken to prevent the spread of aquatic and
- $\square$
- terrestrial invasive plants during construction activities. Care should be taken to avoid the spread of aquatic invasive plants such as giant Salvinia (Salvinia molesta), common salvinia (Salvinia minima), hydrilla (Hydrilla verticillata), water hyacinth (Eichhornia spp.), Eurasian watermitfoil (Myriophyllum spicatum), water lettuce (Pistia stratiotes), and alligatorweed (Alternanthera philoxeroides) from infested water bodies into areas not currently infested. All machinery, equipment, vessels, boat trailers, or vehicles coming in contact with waters containing aquatic invasive plant species should be cleaned prior to leaving the site to remove all aquatic plant material and dried completely before use on another water body to prevent the potential spread of invasive plants. Removed plants should be transported for disposal in a secure manner to prevent dispersal.
- Only native or non-invasive plants should be planted. Care should be taken to avoid mowing invasive giant reed (Arundo donax), which spreads by fragmentation, and to clean equipment if inadvertently mowed to prevent spread. If using hay bales for sediment control, use locally grown weed-free hay to prevent the spread of invasive species. Leave the hay bales in place and allow them to break down, as this acts as mulch assisting in revegetation.

#### 🗌 Stream Crossings BMPs

Riparian buffer zones should remain undisturbed.

#### Dewatering BMPs

Impact avoidance measures for aquatic organisms, including all native fish and freshwater mussel species, regardless of state-listing status, should be considered during project planning and construction activities.

#### Wildlife Crossing BMPs

Incorporate wildlife crossings with fencing, particularly in areas that bisect wildlife travel corridors or seasonal movement routes to avoid further habitat fragmentation and minimize wildlife-vehicle interactions.

#### 🗌 Rare Plant BMPs

Avoid impacts and minimize unavoidable impacts. Plant locations should be protected with temporary barrier fencing and contractors should be instructed to avoid protected areas. Conducting construction outside of the growing season or after a plant has produced mature fruit is the preferred way to avoid/minimize impacts to SGCN plant populations. Staging areas, stockpiles, and other project related sites on TxDOT ROW should not impact SGCN plant populations. After construction begins, minimize herbicide use near SGCN plant populations (if possible, use hand-held spot sprayers, several meters from rare plants, on still or days with little wind).

Pharr District Contact No. 956-702-6100

BMP: Best Management Practice CGP: Construction General Permit CRPe: Contractor Responsible Person Environmental DSHS: Texas Department of State Health Services FEMA: Federal Emergency Management Agency FHWA: Federal Highway Ádministration MOA: Memorandum of Agreement MOU: Memorandum of Understanding MS4: Municipal Separate Stormwater Sewer System

List of Abbreviations MSAT: Mobile Source Air Toxic MBTA: Migratory Bird Treaty Act NOI: Notice of Intent NOT: Notice of Termination NWP: Nationwide Permit PCN: Pre-Construction Notification PSL: Project Specific Location SPCC: Spill Prevention Control and Countermeasure SW3P: Storm Water Pollution Prevention Plan

TCEQ: Texas Commission THC: Texas Historical Com TPDES:Texas Pollutant Disc TPWD: Texas Parks and W TxDOT:Texas Department of T&E: Threatened and Endo USACE:U.S. Army Corp of F USFWS:U.S. Fish and Wildlif

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#### Rare Plants BMPs (Continued)

☐ If there are unintended impacts to SGCN populations, these impacts should be reported to TPWD Transportation Staff. During project period, conduct work during times of the year when plants are dormant and/or conditions minimize disturbance of the habitat.

## 🗙 Bird BMPs

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 $\square$ 

- Avoid vegetation clearing activities during the general bird nesting season, February 15th to October 1st to minimize adverse impacts to birds.
  - Do not collect, capture, relocate, or transport birds,
  - eggs, young, or active nests without a permit. Minimize extended human presence near nesting birds during construction and maintenance activities. Protect sensitive habitat areas with temporary barriers or fencing to limit human foot- traffic and off-road vehicle
  - use to alert and discourage contractors from causing any unintentional impacts. Minimize construction noise above ambient levels during
  - general bird nesting season to minimize adverse impacts on birds.
  - Minimize construction lighting during the general bird nesting season by scheduling work activities between dawn and dusk.

#### 🗌 Rookeries BMPs

In general, nesting dates for herons and egrets range from early February to late August in Texas, depending on the species. Great blue herons (GBHE) (Ardea herodis) are usually the first to nest. When GBHE get disrupted from the nest and abandon nesting, then the other species of herons and egrets may not attempt to nest at the colony that year. If rookeries are encountered avoid and minimize disturbance during nesting to protect rookery species and their habitat.

Vegetation clearing in a primary buffer area of 300 meters (984 feet) from a rookery or heronry periphery should be avoided. Utilizing areas that have already been cleared within this buffer area may be acceptable depending on site-specific characteristics. Additionally, human foot-traffic or machinery use should not occur within this buffer area during the nesting season.

Clearing activities or construction using heavy machinery in a secondary buffer area of 1000 meters (3281 feet) from the heronry periphery should be avoided during the breeding season (courting and nesting).

*Texas Department of Transportation* 

PHARR DISTRICT

## EPIC SHEET SUPPLEMENTALS

# TPWD BMPs

Revised 02/24/2022

	-		SHEET 1	OF 3
on Environmental Quality mmission	FED.RD. DIV.NO.		PROJECT NO.	HIGHWAY NO.
scharge Elimination System Wildlife Department	6			FM 1925
t of Transportation	STATE	DISTRICT	COUNTY	1 101 1923
dangered Species	TEXAS	PHR	HIDALGO	SHEET
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#### 🗌 Fish BMPs

- □ The following Fish BMP apply to projects for all fish species in waters of the state to minimize impacts to water quality and aquatic passage from transportation projects.
- $\square$ For projects in waters of the state and work is adjacent to
- water: follow Water Quality and Stream Crossing BMPs.  $\square$
- For projects in waters of the state and work is in the water: follow Water Quality, Stream Crossing, and Dewatering BMP.

#### 🗌 Aquatic Invertebrate BMPs

- For projects within the range of a SGCN or state-listed species and work is adjacent to water: Water Quality and Stream Crossing BMP
- For projects within the range of a SGCN or state-listed species and work is in the water: Water Quality, Stream Crossing, and Dewatering BMP.
- For spring-seep associated caddisflies (Cheumatopsyche morsei, Chimarra holzenthali, and Hydroptila ouachita): Avoid or minimize impacts to the natural riparian buffer along stream channelincluding native shrubs and trees.

#### 🗌 Crayfish BMP

- For projects within the range of a SGCN or state-listed species and work is adjacent to water: Water Quality and Stream Crossing BMP.
- For projects within the range of a SGCN or state-listed species and work is in the water: Water Quality, Stream Crossing, and Dewatering BMP. Avoid or minimize impacts to the natural riparian buffer that
- provides terrestrial and aquatic plant matter for the diet of most crayfish species.

#### Freshwater Mussel BMP

- □ In addition to Water Quality and Stream Crossing BMP, follow the most recent, 1/32 TPWD<sup>19</sup>/32 TxDOT Annual Work Plan for Pre-Construction Surveys, Aquatic Resources Relocations, and Other Best Management Practices to Avoid, Minimize, and
- Mitigate Impacts to Freshwater Resources.<sup>3</sup>/<sub>32</sub> When work is adjacent to the water Water Quality BMP implemented as part of the Texas Commission on Environmental Quality (TCEQ) Stormwater Pollution Prevention Plan (SWPPP) for a construction general permit or any conditions of the 401 Water Quality Certification for the project will be implemented.
- Insect Pollinator BMP
  - Deep soil disturbances, such as, tilling or deep disking in areas that host aggregations of ground- nesting bees should be avoided. Tilling and disking also may promote the invosion or germination of non-native plants. Different species of native ground-nesting bees prefer different soil conditions, although research suggests that many ground nesting bees prefer sandy, loamy sond or sandy loam soils. In areas with these soil types consider leaving open patches of soil.
  - Allow dead trees to stand (so long as they do not pose a risk to property or people) and protect shrubs and herbaceous plants with pithy or hollow stems (e.g., cane fruits, sumac, elderberry), as these provide nesting habitat for tunnel-nesting native bees. Retain dead or dying branches whenever it is safe and practical at the edges of the ROW. Wood- boring beetle larvae often fill dead trees and branches with narrow tunnels into which tunnel- nesting bees will establish nests. Additionally, bumble bees may choose to nest in wood
  - Retain rotting logs at edges of the ROW where some bee species may burrow tunnels in which to nest.

#### □ Insect Pollinator BMP (Continued)

- Protect sloped or well-drained ground sites where plants are sparse and direct access to soil is available. These are the areas where around-nesting bees may dig nests. Turning the soil destroys all around nests that are present at that depth and hinders the emergence of bees that are nesting deeper in the ground.
- $\square$ Protect grassy thickets, or other areas of dense, low cover from mowing or other disturbance. These are the sites where bumble bees might find the nest cavities they need, as well as annual and perennial wildflowers that can provide important food resources.
- Where available and economical, native plants and seed should be procured from localeco-type providers. Seed mixes should be diverse and include as many ecoregion natives as possible ensuring full season floral resources. Species by Texas ecoregion can be found in the Texas Management Recommendations for Native Insect Pollinators in Texas document: https://tpwd.texas.gov/publications/pwdpubs/media/pwd\_bk\_w7000\_1813.pdf
- Planting at least three blooming periods are recommended (spring, summer, early fall) in high rainfall regions of Texas. In drier regions of the state, a target of three native flowering plants within each of two blooming periods can be used.

#### Small Mammal BMP

For Coues' rice rat (Oryzomys couesi aquaticus):

- Minimize impacts to wetland, resaca, oxbow Conversion of property containing cave or cliff features to transportation purposes should be avoided lake, and marsh habitats
- Water Quality BMP

#### 🗌 Fossorial Mammal BMP

- When a construction zone is adjacent to active BTPD burrows or pocket gopher mounds, erect barriers to discourage individuals moving through or into the construction area.
- When seeding or revegetation is planned in an area adjacent to BTPD burrows or pocket gopher mounds, a vegetative barrier should be considered in the planting to discourage dispersal into the ROW.

#### 🛛 <u>Bat BMP</u>

- For activities that have the potential to impact structures, cliffs or caves, or trees; a qualified biologist will perform a habitat assessment and occupancy survey of the feature(s) with roost potential as early in the planning process as possible or within one year beforé project letting.
- Within one year before project letting.
   For roosts where occupancy is strongly suspected but unconfirmed during the initial survey, revisit feature(s) at most four weeks prior to scheduled disturbance to confirm absence of bats.
- If bats are present or recent signs of occupation (i.e., piles of guano, distinct musky odor, or staining and rub marks at potential entry points) are observed, take appropriate measures to ensure that bats are not harmed, such as implementing non-lethal
- exclusion activities or timing or phasing of construction.
   Exclusion devices can be installed by a qualified individual between September 1 and March 31. Exclusion devices should be used for a minimum of seven days when minimum nighttime temperatures are above 50°F AND minimum daytime temperatures are above 70°F. Prior to exclusion, ensure that alternate roosting habitat is available in the immediate area. If no suitable roosting habitat is available, installation of alternate roosts is recommended to replace the loss of an occupied roost. If alternate roost sites are not provided, bats may seek shelter in other inappropriate sites, such as buildings, in the surrounding area.

Pharr District Contact No. 956-702-6100

BMP: Best Management Practice
CGP: Construction General Permit
CRPe: Contractor Responsible Person Environmenta
DSHS: Texas Department of State Health Services
FEMA: FederalEmergency Management Agency
FHWA: Federal Highway Administration
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List of Abbreviations

ICEQ: Texas Commission on Env THC: Texas Historical Commission TPDES:Texas Pollutant Discharae TPWD: Texas Parks and Wildlife TxDDT:Texas Department of Trai T&E: Threatened and Endangere USACE:U.S. Army Corp of Engine USFWS:U.S. Fish and Wildlife Ser

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#### 🗙 Bat BMP (Continued)

If feature(s) used by bats are removed as a result of construction, replacement structures should incorporate bat-friendly design or artificial roosts should be constructed to replace these features.

Avoid unnecessary removal of dead fronds on native and ornamental palm, trees in south Texas (Cameron, Hidalgo, Willacy, Kenedy, Brooks, Kleberg, Nueces, and San Patricio counties) from April 1 through October 31. If removal of

dead fronds is necessary at other times of the year, limit frond removal to extended warms periods (nighttime temperatures = 55°F for at least two consecutive nights), so bats can move away from the disturbance and find new roosts.

🛛 Large hollow trees, snags (dead standing trees), and trees with shaqqy bark should be surveyed for colonies and, if found, should not be disturbed until the bats are no longer occupying these features. Post-occupancy surveys should be conducted by a qualified biologist prior to tree removal from the landscape.

Retain mature, large diameter hardwood forest species and native/ornamentalpalm trees.

In all instances, avoid harm or death to bats. Bats should only be handled as a last resort and after communication with TPWD.

#### X Aquatic Amphibian and Reptile BMP

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For projects within existing right-of-way (ROW) when work is in water or will permanently impact a water feature and potential habitat exists for the target species complete the following:

 $oldsymbol{X}$  Minimize impacts to wetlands, temporary and permanent open water features, including depressions, and riverine habitats.

Maintain the existing hydrologic regime and any connections between wetlands and other aquatic features.

Use barrier fencing to direct animal movements away from construction activities and areas of potential

wildlife-vehicle collisions in construction areas directly adjacent, or that may directly impact, potential habitat for the target species.

Apply hydromulching and/or hydroseeding in areas for soil stabilization and/or revegetation of disturbed areas around wetlands and in riparian areas. If erosion control blankets or mats will be used, the product should not contain netting, but should only contain loosely woven natural fiber netting in which the mesh design allows the threads to move, therefore allowing expansion of the mesh openings. Plastic netting should be avoided.

Project specific locations (PSLs) proposed within state-owned ROW should be located in uplands away from aquatic features.

When work is directly adjacent to the water, minimize impacts to shoreline basking sites (e.g., downed trees, sand bars, exposed bedrock) and refugia/overwinter sites (e.g., brush and debris piles, crayfish burrows, aquatic logiams, and leaf packs).

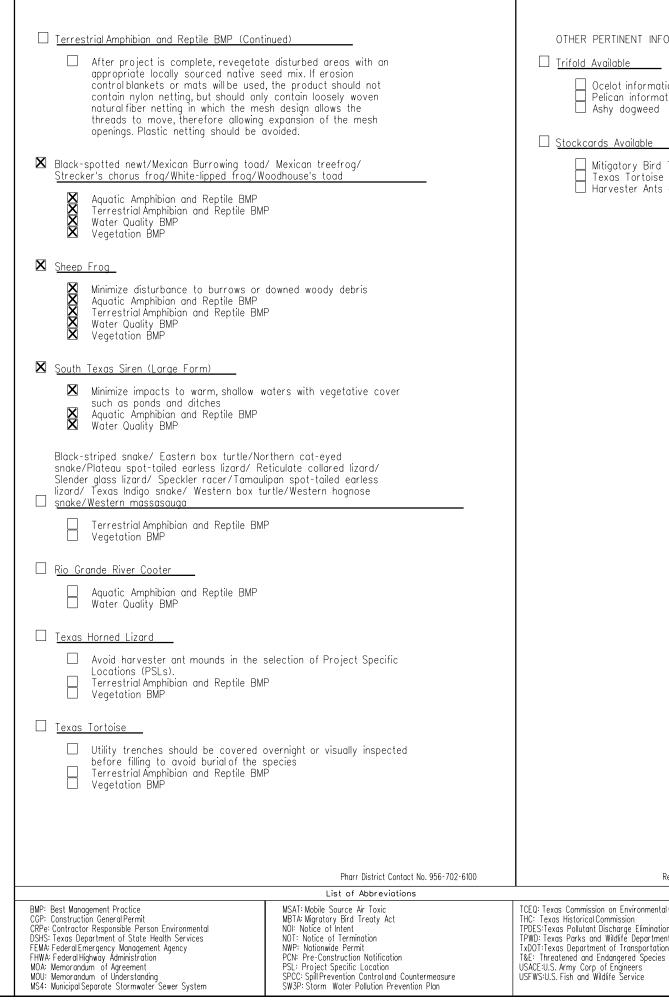
		<sup>2017</sup> Texas Department of Transportation PHARR DISTRICT						
	EPIC S	SHEET	SUP	PLEMENI	ALS			
	-	ΓPW	DE	BMPs				
Revised 02/24/2022								
				SHEET 2	OF 3			
vironmental Quality on	FED.RD. DIV.NO.		PROJECT N	10.	HIGHWAY NO.			
e Elimination System	6				-FM 1925			
Department insportation	STATE	DISTRICT	(	COUNTY	TIVI 1923			
ed Species	TEXAS	PHR	HID	ALGO	SHEET			
eers vice	CONTROL	SECTION		JOB	NO.			
	1803	02	(	035	234			

#### X Aquatic Amphibian and Reptile BMP (Continued)

 $\mathbf{X}$  If gutters and curbs are part of the roadway design, install gutters that do not include the side box inlet and include sloped (i.e., mountable) curbs to allow small animals to leave roadway. If this modification to the entire curb system is not possible, install sections of sloped curb on either side of the storm water drain for several feet to allow small animals to leave the roadway. Priority areas for these design recommendations are those with nearby wetlands or other aquatic features.

For projects that require acquisition of additional ROW and work within that new ROW is in water or will permanently impact a water feature, implement BMP for projects within existing ROW above plus those below:

- For sections of roadway adjacent to wetlands or other aquatic features, install wildlife barriers that prevent climbing. Barriers should terminate at culvert openings in order to funnel animals under the road. The barriers should be of the same length as the adjacent feature or 80 feet long in each direction, or whichever is the lesser of the two.
- For culvert extensions and culvert replacement/installation, incorporate measures to funnel animals toward culverts such as concrete wingwalls and barrier walls with overhangs.
- $\mathbf{X}$  When riprop or other bank stabilization devices are necessary, their placement should not impede the movement of terrestrial or aquatic wildlife through the water feature. Biotechnical streambank stabilization methods using live native vegetation, or a combination of vegetative and structural materials should be used.
- X Terrestrial Amphibian and Reptile BMP
  - For open trenches and excavated pits, install escape ramps at an angle of less than 45 degrees (1:1) in areas left uncovered. Visually inspect excavation areas for trapped wildlife prior to backfilling
  - Avoid or minimize disturbing or removing cover objects, such as downed trees, rotting stumps, brush piles, and leaf litter. If avoidance or minimization is not practicable, consider removing cover objects prior to the start of the project and replace them at project completion. Examine heavy equipment stored on site before use,
  - particularly after rain events when reptile and amphibian movements occur more often, to ensure use will not harm individuals that might be seeking temporary refuge.
  - Interview of the spring construction activities like clearing or grading should attempt to be scheduled outside of the spring (March-May) season. Also, timing ground disturbing activities before October when
  - reptiles and amphibians become less active and may be using burrows in the project area is also encouraged. If Texas tortoises (Gopherus berlandieri) or box turtles
  - (Terrepene spp.) are present in a project area, they should be removed from the area and relocated between 100 and 200 meters from the project area. After removal of the individuals, the area that will be disturbed during active construction and project specific locations should be fenced off to exclude reentry by turtles, tortoises, and other reptiles. The exclusion fence should be constructed and maintained as follows:
    - The exclusion fence should be constructed with metal flashing or drift fence material.
    - Rolled erosion control mesh material should not be used. The exclusion fence should be buried at least 6 inches deep and be at least 24 inches high.
    - The exclusion fence should be maintained for the life of the project and only removed after the construction is completed and the disturbed site has been revegetated.



ö

**-X** 

**-X** 

**-X** 

#### OTHER PERTINENT INFORMATION

Ocelot information Pelican information Ashy dogweed

Mitigatory Bird Treaty Act Texas Tortoise Harvester Ants and Horn Lizards

*Texas Department of Transportation* 

PHARR DISTRICT

## EPIC SHEET SUPPLEMENTALS

# TPWD BMPs

Revised 02/24/2022

			SHEET 3	01-3
n on Environmental Quality ommission Discharge Elimination System Wildlife Department It of Transportation ndangered Species of Engineers dlife Service	FED.RD. DIV.NO.		PROJECT NO.	HIGHWAY NO.
	6			FM 1925
	STATE	DISTRICT	COUNTY	FINI 1923
	TEXAS	PHR	HIDALGO	SHEET
	CONTROL	SECTION	JOB	NO.
	1803	02	035	235

2017

During the planning phase of project develop developed during coordination with resource	ment, the following Environmental Permits,	Issues and Commitments have been	II. Clean Water Act, Sections 401 and 404 Corr	pliance - Continued:
orders and/or deviations from the final desi activities as additional environmental clearance	gn must be reported to the Engineer prior	r to the commencement of construction	4. 🔀 The Contractor's designated and quality project site daily to ensue compliance shall be provided to TxDOT within 48	e with SW3P and TPDES GeneralP
I. Clean Water Act, Section 402; Stormwater P	ollution Prevention		5. 🛛 Other Project Specific Actions:	
Action Items Required :	No Action Required		1. Must comply with all the requireme	nts of Special Specification Item
1. X The contractor must implement the SW. plans and maintained appropriately thro The SW3P may need to be revised as	3P by installing Best Management Practice ughout construction. BMPs must be in pla necessary as construction progresses.	s (BMPs) as indicated in the construction ce prior to the start of construction.	2.	
2. X For all construction PSL's off the ROW, regulations pertaining to the preservati	the contractor must certify compliance w on of cultural resources, natural resources	ith all applicable laws, rules and and the environment.		
3. 🔀 Based on the acreage of impact, select	the appropriate box below:		II <u>I. Culturol Resources</u>	
This project will disturb less than 1	acre of soil and is not part of a larger co	mmon plan of development;	Action Items Required :	🗌 No Action R
therefore, a NOI and TPDES Site No or	tice are not required for this project.		<ol> <li>Refer to the 2014 TxDOT Standard Sp Bridges, Item 7.7.1., in the event histor Upon discovery of archeological artifac</li> </ol>	ricalissues or archeological artifac
This project will disturb equal to or	more than 1 acre of soil but less than 5 of sequired. The Construction Site Notice (	acres; therefore a NOI's not	area and contact the Engineer immedia	ately.
the construction site in a publicly	accessible location for review by the publ	lic, TCEQ, EPA and other Inspectors.	2. Other Project Specific Actions:	
or This preject will disturb equal to or	more than 5 arres of call and will require	a NOLand TRRES Site Nation	1.	
The NOI and Site Notice are require	more than 5 acres of soil and will require ed to be posted at the construction site	in a publicly accessible location.	2.	
4. 🗙 Need to address MS4 requirements (Cameron & Hidalgo Counties only)	MS4 requirements no	t needed	۷.	
Class Water Act Sociase 401 and 404 Course	- V		IV. Vegetation Resources	
L Clean Water Act, Sections 401 and 404 Comp			Action Items Required :	🗌 No Action R
Action Items Rquired :	No Action Required		1. 🔀 In accordance with the 2014 TxDOT S	tandard Specifications; Item 164
<ol> <li>Filling, dredging or excavating in any wa unless specified in the USACE permit an mitigation plans, and BMPs required by</li> </ol>	nd approved by the Engineer. The contra	ds or wet areas is prohibited ctor shall adhere to all agreements,	install temporary or permanent seeding for all seeding and replanting of right o	
The Contractor must adhere to all of th	ne terms and conditions associated with th	he following permit(s):	2. In accordance with Executive Order 13 scaping, native species of plants shall b	be used for all seeding and replant
🔀 No Permit Required			for rural roadway's. (Required for Rural	3
🗌 Nationwide Permit 14 - PCN not Re	quired (less than 1/10th acre waters or w	retlands affected)	3. 🔀 Preserve vegetation where possible th stream banks, bed and approach sect	roughout the project and minimize tions.
🗌 Nationwide Permit 14 - PCN Requir	ed (1/10th to <1/2 acre, 1/3 in tidalwate	ers)	4. Other Project Specific Actions:	
Individual 404 Permit Required			1.	
Other Nationwide Permit Required: I	NWP*			
2. X The contractor is responsible for obtain construction methods that change Impa the water quality of the State will be m	cts To Waters Of The U.S., including wetle	) for Contractor initiated changes in ands. The Contractor willensure that	2.	
3. 🗙 Best Management Practices for applicab	5			
General Condition 12 - Categories Land Category I (Erosion Control) Temporary Vegetation		Mulch Filter Berms and/or Socks		
🗌 Blankets, Matting	<ul><li>Interceptor Swale</li><li>Diversion Dike</li></ul>	Compost Filter Berms and/or Socks		
Mulch Sodding	Erosion Control Compost	Compost Blankets		
5				
Category II (Sedimentation Control) X Silt Fence	—— —— Hay (Straw) Bale Dike	☑ Mulch Filter Berms and/or Socks	Pharr District Contact No. 956-702-6100	Revis
Rock Berm	<ul> <li>Brush Berms</li> <li>Sediment Basins</li> </ul>	Compost Filter Berms and/or Socks	List of Abbre	
<ul> <li>Triangular Filter Dike</li> <li>Sand Bag Berm</li> </ul>	<ul> <li>Sediment Basins</li> <li>Erosion Control Compost</li> </ul>	Stone Outlet Sediment Traps	BMP: Best Management Practice CGP: Construction General Permit	NWP: Nationwide Permit PCN: Pre-Construction Notification
General Condition 21 - Category III BMPs Category III (Post-Construction TSS Cor	required			PSL: Project Specific Location SPCC: Spill Prevention Control and Counterme
Category III (Post-Construction TSS Cor	ntrol) Wet Basins	Mulch Filter Berms and/or Socks	CRPe: Contractor Responsible Person Environmental DSHS: Texas Department of State Health Services FEMA: Federal Emergency Management Agency FHWA: Federal Highway Administration MOA: Memorandum of Agreement MOU: Memorandum of Understanding MS4: Municipal Separate Stormwater Sewer System MSAT: Mobile Source Air Toxic MBTA: Moratory Brid Tragty Act	SW3P: Storm Water Pollution Prevention Pla TCEQ: Texas Commission on Environmental Q
Retention/Irrigation	🔲 Grassy Swales	Compost Filter Berms and/or Socks	MUA: Memorandum of Agreement MOU: Memorandum of Understanding MSA: Municipal Secreta Statements Sever System	THC: Texas Historical Commission TPDES:Texas Pollutant Discharge Elimination TPWD: Texas Parks and Wildlife Department
Extended Detention Basin			More municipal separate storni water sewer system	T T TO TEXUS FORKS UND WINDING DEPORTMENT
Constructed Wetlands	<ul> <li>Vegetation-Lined Ditches</li> <li>Erosion Control Compost</li> </ul>	<ul> <li>Sand Filter Systems</li> <li>Sedimentation Chambers</li> </ul>	MSAI: Mobile Source Air Toxic MBTA: Migratory Bird Treaty Act NOI: Notice of Intent	TXD0T:Texas Department of Transportation T&E: Threatened and Endangered Species USACE:U.S. Army Corp of Engineers USFWS:U.S. Fish and Wildlife Service

—X

—X

—**X** 

ponsible Person Environmental(CRPe) will monitor the DES General Permit TXR 150000. Daily Monitoring Reports e with Item 506.3.1.

ication Item 1122-001.

No Action Required

nstruction And Maintenance Of Highways, Streets, And ological artifacts are found during construction. :k, flint, pottery, etc.) cease work in the immediate

No Action Required

ons: Item 164 - Seeding For Erosion Control: provide and Las shown on the plans or as directed by the Engineer ole. (Required for Urban Settings)

cies and the Executive Memorandum on Beneficial Land-ng and replanting of right of way where possible

and minimize clearing, grubbing and excavation within

*Texas Department of Transportation* 

PHARR DISTRICT

2016

# ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

SHEET 1 OF 2 FED.RD. DIV.NO. HIGHWAY NO. PROJECT NO. 6 FM1925 DISTRICT STATE COUNTY PHR TEXAS HIDALGO SHEET NO. CONTROL SECTION JOB 1803 02 035 236

Revised 01/30/2017

otification ocation ntrol and Countermeasure ution Prevention Plan on Environmental Quality mmission scharge Elimination System Wildlife Department

. Federal Listed, and Proposed Threatened and Endangered Species, Critical Habitat, State Listed Species, Candidate Species and Migratory Birds	VI. Hazardous Materials on Contamination Issues - Continued:
	2. Does the project involve any bridge class structure rehabilitation or
Action Items Required : 🗌 No Action Required	not including box culverts)?
Under the Migratory Bird Treaty Act (MBTA) of 1918, codified at 16 U.S.C. 703-712 and as enforced by the USFWS, the proposed construction work will not remove active nests from bridges, trees, ground and other structures during migratory bird nesting season, (February 1st. through October 1st.). If the Contractor needs to perform	☐ Yes ⊠No If "No", then no further action required.
work within the right of way during nesting season, a qualified Biologist shall conduct a survey to determine if active nests are present. If present, the Contractor shall maintain a buffer zone around the nest(s) as directed	If "Yes", then TxDOT is responsible for completing an asbestos as
by the Biologist. The buffer zone will be protected from clearing and disturbance until such time as the Biologist has determined that the nest(s) is no longer active. Prior to the nesting season, existing bridges and culverts	3. Are the results of the asbestos inspection positive (is asbestos pre
should be treated against migratory bird nesting by utilizing Bird Exclusion Methods. Bird Exclusion Methods should be monitored and maintained throughout the nesting season. Refer to Standard Bird Exclusion Details.	Yes No
<ul> <li>There is the potential for the presence of state-listed species &amp; species of concern in the project area and state law prohibits the taking (incidental or otherwise) of state-listed species. Taking is defined as the collection, hooking, hunting, netting, shooting, or share by any means or devices. If any listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately.</li> </ul>	If "Yes", then TxDOT must retain a Texas Department of State He consultant to assist with the notification, develop abatement/mitigo activities as necessary. The notification form to DSHS must be p prior to scheduled abatement activities and/or demolition.
. X Other Project Specific Actions:	If "No", then TxDOT is still required to notify DSHS 15 working day
<ol> <li>State Rare, Threatened, or Endangered Species or Species of Greatest Conservation need that have the potential of occurring within the project area: Black Spotted Newt (Notophthalmus meridionalis), Mexican Burrowing Toad (Rhinophrynus dorsalis), Mexican Treefrog (Smilisca baudinii), Sheep Frog (Hypopachus variolosus), South Texas Siren (Siren sp.), White Lipped Frog (Leptodactlus fragilis), Woodhouse's Toad (Anaxyrus woodhousii), Western Burrowing Owl (Athene curicularia)</li> </ol>	4. X The Contractor is responsible for providing the date(s) for abatem careful coordination between the Engineer and an Asbestos Consult delays and subsequent claims.
hypugaea), Neojuvenile Tiger Beetle (Cicindela obsoleta neojuvenilis), Subtropical Black Sky Tiger Beetle (Cindela nigrocoerlea subtropica),	VII. Other Environmental Issues
hypugaea), Neojuvenile Tiger Beetle (Cicindela obsoleta neojuvenilis), Subtropical Black Sky Tiger Beetle (Cindela nigrocoerlea subtropica), Eastern Spotted Skunk (Spilogale putorious), Southern Yellow Bat (Lasiurus ega), Texas Indigo Snake (Drymarchon melanurus erebennus),	Action Items Required :
Western Box Turtle (Terrapene ornata), & Stinking Rushpea (Pomaria austrotexana).	1. 🔀 Noise
	Contractor shall make every reasonable effort to minimize constru as work hour controls and proper maintenance of equipment muffle
	2. 🔀 Air
	Contractor shall practice common dust control techniques such as unpaved road surfaces and vehicle speed reduction shall be implem during construction.
Hazardous Materials on Contamination Issues	Contractor should minimize MSAT by utilizing measures to encoura
	limits on idling, increase use of cleaner burning dieselengines, and a appropriate.
Action Items Required :	
Action Items Required :	
<u>General (applies to all projects):</u> Comply with the Hazard Communication Act (HCA) 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	
<u>General (applies to all projects):</u> Comply with the Hazard Communication Act (HCA) 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	
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<u>General (applies to all projects):</u> Comply with the Hazard Communication Act (HCA) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential 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 HCA. Maintain an adequate supply of on-site spill response materials as indicated in the MSDS. In the event of a spill, take immediate action to mitigate the spill as indicated in the MSDS and in accordance with safe work practices. Contact the TxDOT Phare 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 (identified as not normal) • Trash piles, drums, canisters, barrels, etc. • Undesirable smells or odors	
<u>General (applies to all projects):</u> Comply with the Hazard Communication Act (HCA) for personnel who will be working with hazardous materials by conducting sofety 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 HCA. Maintain an adequate supply of on-site spill response materials as indicated in the MSDS. In the event of a spill, take immediate action to mitigate the spill as indicated in the MSDS and in accordance with safe work practices. Contact the TxDOT Pharr 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 (identified as not normal) • Trash piles, drums, canisters, barrels, etc. • Undesirable smells or odors • Evidence of leaching or seepage of contaminant substances	Pharr District Contact No. 956-702-6100
<u>General (applies to all projects):</u> Comply with the Hazard Communication Act (HCA) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential 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 HCA. Maintain an adequate supply of on-site spill response materials as indicated in the MSDS. In the event of a spill, take immediate action to mitigate the spill as indicated in the MSDS and in accordance with safe work practices. Contact the TxDOT Phare 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 (identified as not normal) • Trash piles, drums, canisters, barrels, etc. • Undesirable smells or odors	

**—X** 

—X

—X

tion or replacements (bridge class structures

stos assessment/inspection.

os present)?

ate Health Services (DSHS) licensed asbestos /mitigation procedures, and perform management st be postmarked at least 15 working days

ing days prior to any scheduled demolition.

abatement activities and/or demolition with Consultant in order to minimize construction

No Action Required

construction noise through abatement measures such mufflers.

ch as surface chemical treatment or watering of implemented to minimize and prevent airborne dust

ncourage use of EPA required cleaner dieselfuels, s, and other emission limitation techniques,

*Texas Department of Transportation* 

PHARR DISTRICT

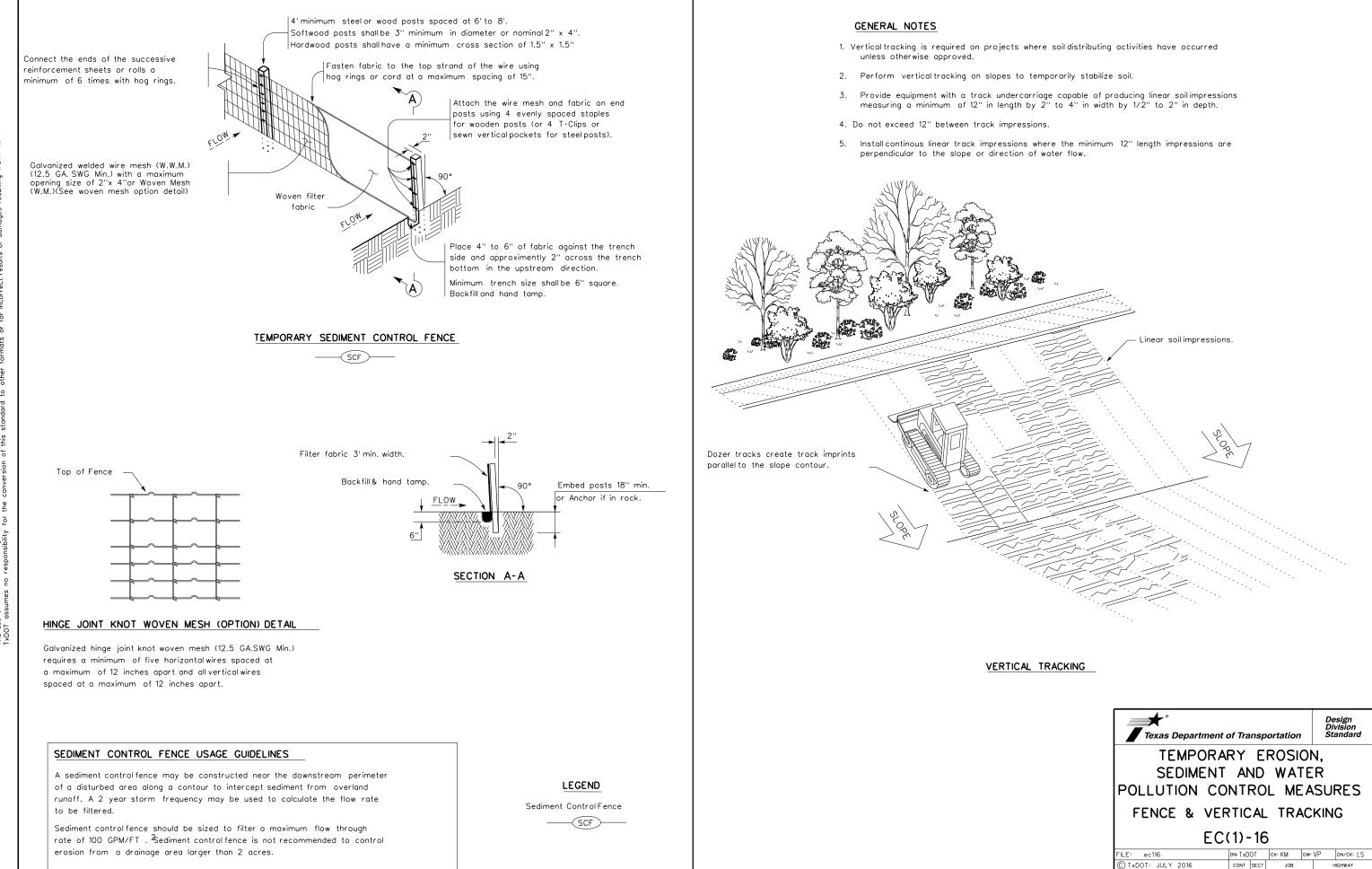
2016

# ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

		SHEET 2	OF 2		
FED.RD. DIV.NO.		HIGHWAY NO.			
6			514005		
STATE	DISTRICT	COUNTY	FM1925		
TEXAS	PHR	HIDALGO	SHEET		
CONTROL	SECTION	JOB	NO.		
1803	02	035	237		

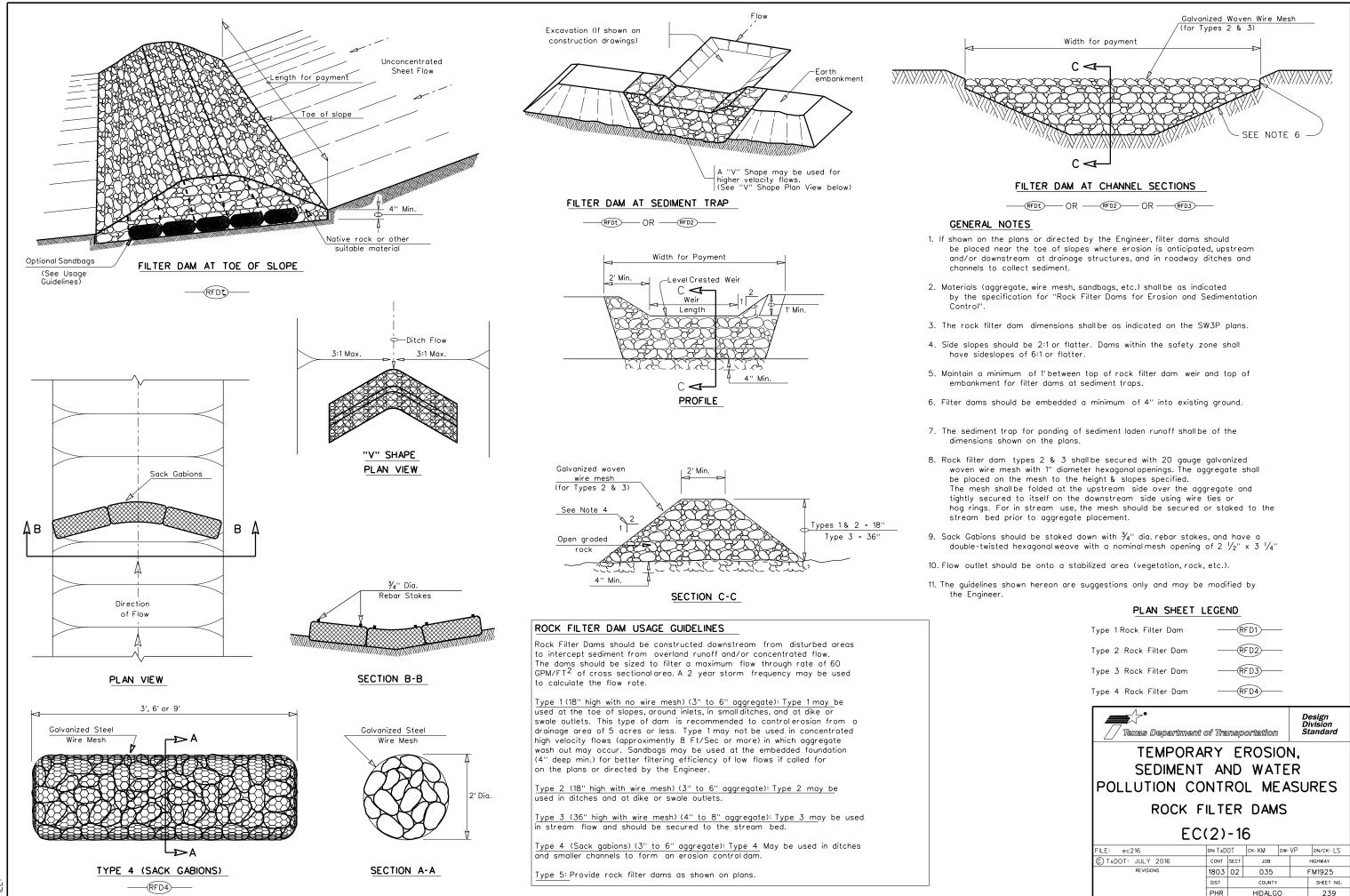
Revised 01/30/2017

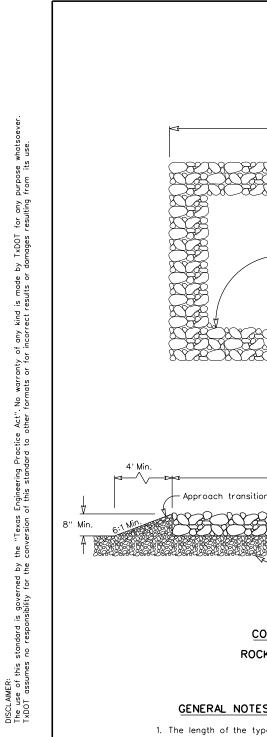
fication tion ol and Countermeasure on Prevention Plan n Environmental Quality vission narge Elimination System dife Department f Transportation ngered Species ngineers Service

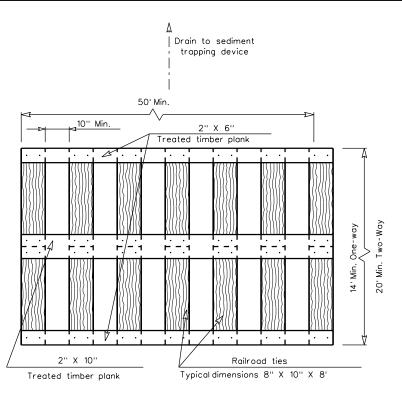


DATE

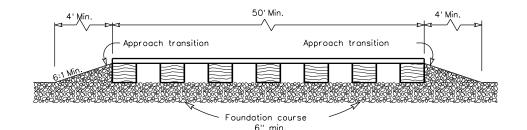
Texas Department of Transportation						Design Division Standard			
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCE & VERTICAL TRACKING EC(1)-16									
FILE: ec116	DN: TxD	OT	ск: КМ	Dw: V	'P	DN/CK: LS			
CTxDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY				
REVISIONS 1803 02 035			FM1925						
DIST COUNTY			r .	SHEET NO.					
	PHR HIDALGO			0	238				







PLAN VIEW



#### ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 2)

TIMBER CONSTRUCTION (LONG TERM)

#### GENERAL NOTES (TYPE 2)

- 1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
- 2. The treated timber planks shall be attached to the railroad ties with  $\frac{1}{2}$ "x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
- 3. The treated timber planks shall be \*2 grade min., and should be free from large and loose knots.
- 4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
- 5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
- 6. The construction exit should be graded to allow drainage to a sediment trapping device.
- 7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
- 8. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.

ELEVATION VIEW

Foundation course

6" min.

PLAN VIEW

50' Min.

Approach transition

CONSTRUCTION EXIT (TYPE 1)

| Drain to sediment

50' Min.

Coarse Aggregate

trapping device

-il

20-

4

4' Min.

ROCK CONSTRUCTION (LONG TERM)

#### GENERAL NOTES (TYPE 1)

- 1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
- 2. The coarse aggregate should be open graded with a size of 4" to 8".
- 3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
- 4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other materialas approved by the Engineer.
- 5. The construction exit shall be graded to allow drainage to a sediment trapping device.
- 6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
- 7. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.

