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FINAL PLANS

- NAME OF CONTRACTOR: _____
- DATE OF LETTING:_____
- DATE WORK BEGAN: _____
- DATE WORK COMPLETED: _____
- DATE WORK ACCEPTED: _____

SUMMARY OF CHANGE ORDERS:

STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

0

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT

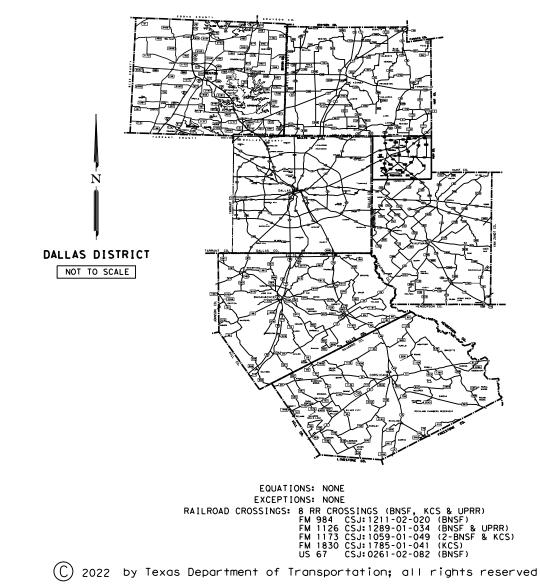
F 2023 (084),ETC. CSJ: 0095-03-107, ETC.

US 80, ETC. KAUFMAN COUNTY, ETC.

LIMITS: FROM VARIOUS LOCATIONS IN COLLIN, DALLAS, DENTON, ELLIS, KAUFMAN, NAVARRO AND ROCKWALL COUNTIES

TOTAL LENGTH OF PROJECT	ROADWAY	=1,285,020 =22,762.00	FT. FT.	=243.375 MI =004.311 MI
		=1,307,782		=247.686MI.

FOR THE CONSTRUCTION OF SEAL COAT CONSISTING OF SEAL COAT, PAVEMENT MARKINGS









WORK WAS COMPLETED ACCORDING TO THE PLANS AND CONTRACT.

<u>,</u> P.E. Signature of Registrant & Date

DATE:

DESIGN DS	FED.RD. DIV.NO.	FEDERAL	AID PROJECT NO.	HIGHWAY NO.
GRAPHICS	6	F 202	3(084),E+c.	US 80,E+c
DS	STATE	DISTRICT	COUNTY	SHEET NO.
снеск ЈН	TEXAS	DALLAS	KAUFMAN,Etc	
CHECK	CONTROL	SECTION	JOB	001
DM	0095	03	107,E+c.	

DESIGN SPEEDS = N/A MPH ADT = SEE QUANTITY SUMMARY SHEETS

NOTE:

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION. NOVEMBER 1, 2014, AND THE CONTRACT PROVISIONS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, JULY 5, 2022)

TEXAS DEPARTMENT OF TRANSPORTATION

TED TTING MULLAN, P.E. DESIGN ENGTWEER	
ENDED 11/29/2022 MOVYIA, P.E. I MAINTENANCE ENGINEER 35009464	RECOMMENDED FORusin-Fulling DEPUTY DISTRICT ENGINEER CD610F6E0D584EF
INDED 11/29/2022 TREY BUSH , p.e. EBJØRODE OPERATIONS	APPROVED 5000 standed by G: 11/29/2022 Cosson Clansons, P.E. A879EODPJ&JELET ENGINEER

INDEX OF SHEETS

SHEET	DESCRIPTION	SHEET DESCRIPTION	SHEET DES	SCRIP
I. GENERA	L	IV. RETAINING WALL DETAILS	VIII. TRAFFIC	ITE
001 002 003, 003A-003 004, 004A-004 005 006 - 007		NONE	068 >TW 069 - 072 >FP 073 - 076 >PM	VEMEN 10-LAN 14(1)- 1(1)-2 (3)-1

			1.		
<u>II. TRA</u>	FFIC CONTROL PLAN	V. DRAINAGE DETAILS	079	ENVIRONM	
008 - 019	>BC (1)-21 THRU BC (12)-21	NONE	080	STORM WA	
020 - 027	>TCP (SC-1)-22 THRU TCP (SC-8)-22	NONE			
028	>WZ (STPM)-13				
029	>WZ (RS)-22				

030

>WZ (UL)-13

			X. MISCELLANEC
<u>111. RO4</u>	ADWAY DETAILS	VI. UTILITIES	081-083 RAI
031	COLLIN CO. PROJECT SUMMARY AND LOCATION MAP	NONE	084-085 RAI
032	COLLIN CO. QUANTITY SUMMARY	NONE	086 >RC
033	COLLIN CO. WORK ZONE & STRIPING QUANTITY		087 >RC
034	COLLIN CO. INTERSECTION, WIDENING, RAMPS & GORES QUANTITY		
035	DALLAS CO. PROJECT SUMMARY AND LOCATION MAP		
036	DALLAS CO. QUANTITY SUMMARY		
037	DALLAS CO. WORK ZONE & STRIPING QUANTITY		
038	DALLAS CO. INTERSECTION, WIDENING, RAMPS & GORES QUANTITY		
039	DENTON CO. PROJECT SUMMARY AND LOCATION MAP		
040	DENTON CO. QUANTITY SUMMARY		
041	DENTON CO. WORK ZONE & STRIPING QUANTITY		
042	DENTON CO. INTERSECTION, WIDENING, RAMPS & GORES QUANTITY		TE OF THE
043	ELLIS CO. PROJECT SUMMARY AND LOCATION MAP		- ALE VETIL
044	ELLIS CO. QUANTITY SUMMARY		-5^{\prime} Λ
045	ELLIS CO. WORK ZONE & STRIPING QUANTITY		
046-047	ELLIS CO. INTERSECTION, WIDENING, RAMPS & GORES QUANTITY		
048	KAUFMAN CO. PROJECT SUMMARY AND LOCATION MAP		
049	KAUFMAN CO. QUANTITY SUMMARY		ζ J.R.HUGHES ζ
050	KAUFMAN CO. WORK ZONE & STRIPING QUANTITY		
051-052	KAUFMAN CO. INTERSECTION, WIDENING, RAMPS & GORES QUANTITY	VII. BRIDGES	134954
053	NAVARRO CO. PROJECT SUMMARY AND LOCATION MAP		1.0.
054	NAVARRO CO. QUANTITY SUMMARY	NONE	1 OF NEED SUF
055	NAVARRO CO. WORK ZONE & STRIPING QUANTITY		LEN SUCTO
056	NAVARRO CO. INTERSECTION, WIDENING, RAMPS & GORES QUANTITY		SJONAL EN-
057	ROCKWALL CO. PROJECT SUMMARY AND LOCATION MAP		"11111
058	ROCKWALL CO. QUANTITY SUMMARY		
059	ROCKWALL CO. WORK ZONE & STRIPING QUANTITY		
060	ROCKWALL CO. INTERSECTION, WIDENING, RAMPS & GORES QUANTITY		
061	CONSTRUCTION DETAILS		
062 - 065	>MB(1)-21 THRU MB(4)-21		THE STANDARD SHEETS SPECIFICALLY IDENTIFI AN ">" ABOVE, HAVE BEEN SELECTED BY ME OR MY RESPONSIBLE SUPERVISION, AS BEING APPL
066	>TREATMENT FOR VARIOUS EDGE CONDITIONS		MY RESPONSIBLE SUPERVISION, AS BEING APPL TO THIS PROJECT.
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ugles, F. E. XXXXXX , P.E.

Gignature of Registrant

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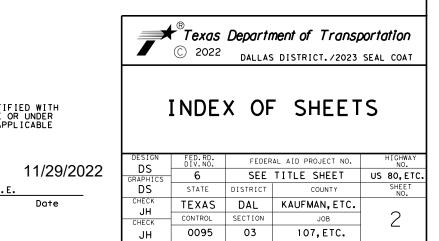
MENT MARKINGS (EXIT TO FRONTAGE ROAD) (DAL) LANE HIGHWAY CURVE SIGNING & MARKING (DAL) 1)-12(DAL) THRU FPM(4)-12(DAL))-20, PM(2)-20, PM(3)-20, PM(4)-22)-13, RS(4)-13

IX. ENVIRONMENTAL ISSUES

NMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC) (DAL) WATER POLLUTION PREVENTION PLAN (SW3P) (DAL)

EOUS ITEMS

RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS RCD(1)-22 >RCD(2)-22



County: KAUFMAN, ETC.

Highway: US 80, ETC.

SPECIFICATION DATA

GENERAL

Project Description – This project consists of performing "Retrace Operations and Mailbox Installations", "Seal Coat Operations", and "Permanent Striping Operations" on various roadways in the Dallas District including Collin, Dallas, Denton, Ellis, Kaufman, Navarro, and Rockwall Counties.

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is <u>0</u> acres. However, the Total Disturbed Area (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

This project required no formal consultation or permitting with environmental resources agencies. There is a high probability that an environmentally sensitive area could be encountered on the contractor designated Project-Specific Locations (PSL) for this project (haul roads, equipment staging areas, borrow pits, disposal sites, field offices, storage areas, parking areas, etc.). Item 7.6 "Project-Specific Locations", provides a listing of regulatory agencies that may need to be contacted regarding this project.

Contact the Dallas District Maintenance Department for approval of all stockpile locations and prior to beginning any stockpile activity. Only material delivered to approved stockpile locations will be paid as Material on Hand (MOH).

Place barricades on the project no more than 5 days prior to beginning work on the reference location.

Clean staging area and stockpile sites and associated roadway sections of construction debris and excess gravel prior to moving from one stockpile to the next. Restore all sites to an acceptable condition. The final estimate will not be released until this is accomplished.

Contractor is responsible to locate and protect all objects located within the seal coat area.

CSJ: 0095-03-107, ETC.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

Upon completion of all work provided for in the contract for any individual roadway, an inspection will be conducted, and if the work is found to be satisfactory, the Contractor will be released from further maintenance on that portion of the work. Do not remove construction signs from an accepted highway until the stockpile(s) and staging areas for that roadway have been returned to their pre-existing condition. All staging areas and aggregate stockpile sites will be returned to their pre-existing condition following seal coat operations prior to moving work to another county.

Quantities shown in the plans are subject to change due to field conditions encountered prior to and during construction. TxDOT personnel will be available to assist with verifying project limits and associated quantities. Provide written confirmation to the Engineer that quantities have been verified. This written confirmation shall include a detailed listing of any suspected discrepancies in the quantities shown in the plans. Upon receipt, the Engineer will investigate all alleged discrepancies and develop a plan to address any necessary quantity adjustments. The plan for such adjustments will be finalized and agreed to no later than the completion of the preconstruction conference.

Clean the roadway of dirt, grass and any debris prior to sealing. This work will not be paid for directly but will be subsidiary to the various bid items in this contract.

Perform work in such a way as to avoid damage to vehicles resulting from asphalt and loose aggregate. Conformance with the specifications, standards, and traffic control is considered a minimum effort and is not intended to absolve any liability for damage to vehicles as a result of construction operations.

Coordinate work though:

Joshua Hughes, P.E. 4777 E. Hwy. 80 Mesquite, Texas 75150 214-319-3607 / 469-601-0627

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

David Morren, P.E. David.Morren@TxDOT.gov Joshua Hughes, P.E. Joshua.Hughes@TxDOT.gov

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

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP at the following Address: <u>https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/</u>

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

CSJ: 0095-03-107, ETC.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

Item 6: Control of Materials

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

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

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

Item 7: Legal Relations and Responsibilities

Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

Holiday restrictions – the engineer may decide that no lane closures or construction operations shall be allowed during the restricted periods listed in the following holiday schedule. TxDOT has the right to lengthen, shorten, or otherwise modify these restricted periods as actual, or expected, traffic conditions may warrant. Working days will not be charged for these restricted periods. No additional compensation will be allowed for these closures (i.e., overhead, delays, stand-by, barricades or any other associated cost impacts).

- New Year's Eve and Day (5 am on December 31 thru 10:00 pm January 1)
- Easter Holiday weekend (5 am on Friday thru 10:00 pm Sunday)
- Memorial Day weekend (5 am on Friday thru 10:00pm Monday)
- Independence Day (5 am on July 1 thru 10:00 pm on July 5)
- Labor Day weekend (5 am on Friday thru 10:00 pm Monday)
- Thanksgiving Holiday (5 am on Wednesday thru 10:00 pm Sunday)
- Christmas Holiday (5 am on December 23 thru 10:00 pm December 26)

Designate a responsible person for receiving and resolving damage claims from the public. This person will be available to receive calls during normal business hours, 8:00 A.M. - 5:00P.M., Monday through Saturday, during the course of this project. Prior to beginning work, furnish this person's name, mailing address, and a telephone number and make it available to individuals contacting the Department with claims.

No significant traffic generator events identified.

Item 8: Prosecution and Progress

This Project will be Calendar Day in accordance with Article 8.3.1.5. Nighttime work will be allowed in accordance with Article 8.3.3.

CSJ: 0095-03-107, ETC.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

Notify and obtain permission from the Project Engineer a minimum of 24 hours before beginning striping operations each week during the operation. Provide proposed work location and schedule for the week. Do not place any contract stripe unless the designated TxDOT Representative is present. Leaving a recorded message does not meet the aforementioned requirements. Failure to have the required weekly permission and designated TxDOT Representative present will result in forfeiture of payment for each day these conditions are not met. Project Engineer hours are 8 A.M. to 5 P.M., Monday through Friday. The time of day allowed to work will be as directed.

Before starting work, provide a sequence of work and estimated progress schedule meeting the requirements of Section 8.2.1., "Construction Contracts".

Time charges for Retrace Operations and Mailbox Installations will begin February 15, 2023. Time charges for Seal Coat Operations & associated Permanent Striping Operations will begin May 1, 2023. Once work has started, proceed in a continuous manner until all work is complete.

Item 301: Asphalt Antistripping Agents

Provide liquid antistripping agents unless otherwise directed. Add either the minimum dosage determined by the manufacturer, or a higher dosage determined by design requirements and try subsequent trials at 0.25% increments.

Item 302: Aggregates for Surface Treatments

SS-1H, CSS-1, or CSS-1H.

See Quantity Summary Sheets for proposed aggregate stockpile locations.

Item 316: Seal Coat

The Engineer will retrieve a minimum of one asphalt sample from the job site for each type of asphalt used for each particular reference for guality control purposes.

Utilize an asphalt distributor capable of providing a transversely varied asphalt rate. The Engineer will select the pavements where the transversely varied asphalt rate is required.

When a transversely varied rate is required, the asphalt rate outside of the wheel paths will be between 22 and 32% higher than the asphalt rate applied in the wheel paths. Provide calibration documents to the Engineer that include a description of the spray bar(s) and nozzles that will be used and the percentage difference in asphalt rate achieved by each tested spray bar and nozzle arrangement. The nozzles proposed for use shall be clearly stamped or marked from the factory identifying the manufacturer.

- Use unmodified AC, PG, or emulsion for pre coating aggregate. Use AC-10, PG64-22, SS-1,

County: KAUFMAN, ETC.

Highway: US 80, ETC.

Table 1: F	Table 1: Rates for District Seal Coat Projects										
Item	Application (GR 3)		Application (GR 4)								
Asphalt Type	AC		AC								
*Asph. Rate (Gal/SY)	0.42 AC	OR 0.33 AC									
Aggregate Type	PB or PL		PB or PL								
Aggregate Grade	3		4								
*Aggr. Rate (CY/SY)	1:110		1:125								

*The information above is intended to provide general guidance and a Basis of Estimate.

In addition to the temperature requirements of this Item, AC Asphalts used in Surface Treatments and Sealcoats must be placed between May 1 and August 31.

At all joints where the newly installed HMAC meets the seal coat, over-lap the seal coat 2ft past the joint, on top of the HMAC, so the joint between the existing roadway and new HMAC is sealed and protected.

Item 320: Equipment for Asphalt Concrete Pavement

Use a self-propelled wheel mounted MTV capable of receiving mix from the haul trucks. separate from the paver. It shall have a minimum storage capacity of approximately 25 tons. It shall be equipped with a pivoting discharge conveyor and shall completely and thoroughly remix the material prior to placement. The effectiveness of the MTV's remixing ability is subject to the approval of the Engineer. In addition, the paver shall have a surge storage insert with a minimum capacity of 20 tons.

Item 354: Planing and Texturing Pavement

All reclaimed asphaltic material will become property of the Contractor to be removed and recycled properly.

During the planing operation, maintain the existing centerline stripe for overnight traffic operations unless full width planing is accomplished in one day. Plane all vertical longitudinal faces with a 3:1 slope to meet Edge Condition I as shown on sheet "Treatment for Various Edge Conditions".

Maintain the surface of planed surfaces prior to HMAC operations.

The planing operation will be followed closely by the hot-mix asphalt (HMA) overlay operation. Vacuum loose fines immediately after the milling operation and prior to overlaying with HMA. If inclement weather or other unexpected factors do not allow planed areas to be overlaid as described above, warning signs per Standard Sheet "Signing for Uneven Lanes" will be maintained until the hot-mix asphalt overlay operation is completed.

CSJ: 0095-03-107, ETC.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

If unstable material is observed after initial milling, plane additional material to a depth that will support traffic.

Use a minimum 30 ft. ski on the planing machine.

Item 500: Mobilization

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

Item 502: Barricades, Signs, and Traffic Handling

The Contractor Force Accounts "Safety Contingency", "Law Enforcement Personnel" and "Rail Road Flagging" that have been established for this project are intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Correct all deficiencies noted on the Traffic Control Device Inspection Form 599 as soon as possible, but no later than 5 days after notification. Failure to make corrections within 5 days will result in no payment for this Item for the month of the noted deficiency.

Particular attention is directed to the requirements of Item 7, "Legal Relations and Responsibilities" in the Standard Specifications. The Contractor's Responsible Person (CRP) will be responsible for ensuring that all signs and traffic control devices are in place and functioning properly in accordance with article 502.2 of the Standard Specifications. The CRP will inspect and ensure any deficiencies are corrected every day throughout the duration of this contract.

The pavement will be entirely open to traffic at the end of each day. All material stockpiles, equipment left overnight or any obstruction within thirty feet of a travel way will be removed or clearly marked by warning lights and barricades as approved.

Use Type III barricades at stockpile sites. Obtain approval before placing stockpiles closer than 30 feet from the edge of the travel lane. In no case may a stockpile be closer than 16 feet to the edge of the pavement or within an intersection clear sight zone.

The traffic control plan for this project will consist of the barricades and signing arrangement shown on the plans, the Barricade and Construction Standards and the Traffic Control Plans Sheets and Standards.

Provide traffic control in compliance with the latest edition of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD), the "Traffic Control Standard Sheets" (TCSS), and as directed.

CSJ: 0095-03-107, ETC.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

Review traffic control details described on TCP (SC-8)-22. This sheet includes provisions for certain signs to be installed, which are to remain in place until standard pavement markings are in place. These signs are in addition to the signs and barricades that may be required on the Barricade and Construction Standards. Erect R4-1 (Do Not Pass) and R4-2 (Pass with Care) signs to mark no-passing zones as directed.

Provide flaggers as directed. Wear an orange reflectorized safety vest and a white safety helmet/hardhat when performing flagging duties or working within the highway right of way. The Contractor will be responsible for maintaining a safety program that includes furnishing and maintaining all necessary safety equipment as required.

Display "FLAGGER AHEAD" and "BE PREPARED TO STOP" signs only when flaggers are working. Furnish all flaggers with long handled stop-slow paddles and operational two-way radios.

Regulate all construction activities and equipment to cause a minimum of inconvenience to the traveling public. Provide warning signs and flaggers where it is necessary for trucks to stop, load or unload at stockpile locations.

Provide and use a pilot car, according to Item 510, "One-Way Traffic Control", whenever one lane of traffic exists. Do not exceed cycle duration of 10 minutes. This work will not be paid for separately but will be considered subsidiary to Item 502.

Traffic Control Plans with a lane closure causing backups of 10 minutes or greater in duration will be modified by the Engineer.

Do not begin Item 502, "Barricades, Signs and Traffic Handling", on any individual roadway until both of the following conditions are met:

- 1. The work schedule is approved.
- 2. No more than 5 work days will pass between the beginning of Item 502 and the Actual commencement of the roadway work bid items, for the particular roadway receiving barricades and construction signing.

Access will be provided to all businesses and residences at all times.

Close no more than one lane at a time, unless otherwise approved. Provide proposed lane closure information to the Engineer by 1 P.M. on the day prior to the proposed closures. Furnish information for Monday closures or closures following a national or state holiday on the last office workday prior to the closures. Do not close lanes if the above reporting requirements have not been met.

Maximum length of lane closure will be 2 miles.

Provide sufficient and qualified staff and equipment to revise the traffic control as directed.

CSJ: 0095-03-107, ETC.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the engineer.

Nighttime and weekend work will be allowed with prior approval, except for emergency work.

When moving unlicensed equipment on or across any pavement or public highways, protect the pavement from all damage using an acceptable method.

As approved by the Engineer, provide uniformed off duty police officers and squad cars during lane or ramp closures, nighttime work or other situations that indicate a need for additional traffic control to protect the traveling public or the construction workforce. Provide documentation such as payroll, log sheets with signatures and badge number, or invoices from the government entity providing the officers for reimbursement. Complete the weekly tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided. Reimbursement will not be made for coordination fees charged by any party.

Item 506: Temporary Erosion, Sedimentation, and Environmental Controls

It is not anticipated that any erosion, sedimentation, or environmental control devices will be needed on this project. However, in the event that such controls are necessary, the SW3P for this project shall consist of the use of any temporary erosion control measures deemed necessary by the Engineer and as provided under this item. If physical conditions encountered at the job site require any of the deemed necessary controls, BMP installation, maintenance, and removal will be paid as extra work on a force account basis per Articles 4.4, "Changes in the Work" and Article 9.7.

The Contractor shall take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Remove any debris or construction material that escapes containment devices and is discharged into the restricted areas before the next rain event occurs, or within 24 hours of the discharge, whichever occurs first.

Item 560: Mailbox Assemblies

Mailbox installations will be installed at locations indicated in the plans and as directed by the Engineer in accordance with MB(1)-21 thru MB (4)-21, MAILBOX INSTALL-(S, D or M) ASSM TY (TWW)(4).

Item 585: Ride Quality for Pavement Surfaces

This note is applicable to the HMAC work only: Provide a 10-ft. straightedge at all times. Measure and evaluate ride quality of repairs as directed by using Surface Test Type A. Correct surface areas as required.

CSJ: 0095-03-107, ETC.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

Item 662: Work Zone Pavement Markings

Place flexible reflective roadway tabs in accordance with TCP (SC-7)-22. Place tabs to indicate the beginning and ending of no passing zones.

Place work zone tabs before sundown on all roadway surfaces sealed during a work day.

Cut, remove and properly dispose of the upright portions of all work zone tabs prior to acceptance of any roadway.

No section of highway included in this contract will be without standard pavement markings for a period longer than 14 calendar days.

Items 666 and 668: Retroreflectorized and Prefabricated Pavement Markings

Verify and document the widths of travel lanes. Immediately notify the Engineer of any discrepancies.

Use a crew experienced in the application of Type II Reflective Pavement Markings, capable of placing the markings in neat straight lines and in a safe and timely manner. Place all pavement markings according to the Texas Manual on Uniform Traffic Control Devices.

Place pavement markings as directed by the Engineer. Do not use existing pavement markings as a guide for new pavement markings.

Use a pilot line to re-establish the center of the roadway and obtain approval before applying any pavement markings. The requirements for the pilot line may be waived if it is determined that the tabs placed at the existing centerline of the roadway will be sufficient for this purpose and if the contractor demonstrates the ability to consistently place centerline markings using alternative techniques. The work will not be paid for directly but will be considered subsidiary to Items 666 and 668.

Maintain and reestablish all passing and no passing zones throughout the project, as outlined in the 2011 Edition of the Texas Manual of Uniform Traffic Control Devices. All passing and no passing zones will be verified prior to placement of permanent pavement markings.

All centerline striping on main lanes will be continuously striped through County Road intersections. All centerline and edge line markings will be continuously striped across concrete sections, bridges, etc.... All concrete and Asphalt intersections, except for private roads, will receive a stop bar.

TY II Centerline and edgeline striping will be placed on all HMAC work locations included in this contract no later than 14 calendar days from the date of work completed per each location.

This note is applicable to the Retrace striping work only: On any Retrace reference, where centerline or edgeline RE PM W/ RET REQ TY I striping is to be installed over the previous years installed RE PROF PM RAISD PROF ONLY profile bumps, the "Mobile Retroreflectivity"

CSJ: 0095-03-107, ETC.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

Data Collection for Pavement Markings" will be waived, but only for the striping that is installed over the existing in-place raised profile bumps.

Item 677: Eliminating Existing Pavement Markings and Markers

Eliminate existing pavement markings on concrete surfaces and prep the surface before new pavement markings are applied.

Surface Treatment Method will not be allowed for removal of pavement markings.

Grinding of permanent pavement markings is not allowed to eliminate pavement markings, except for the elimination of profile pavement markings.

A water blasting method, approved by the Engineer, will be the only method allowed for the removal of permanent pavement markings, except in the case of profile pavement markings, and temporary pavement markings.

Item 3077: Superpave Mixtures

Design and produce the mixture with a gradation that passes below the reference zone, as shown in Table 9 for Special Specification Item 3077.

Table 2: Basis of Estimate for Permanent Construction									
ltem	Description	Thickness		Rate	Unit				
3077	SP MIXES	2 Inches	110	Lbs./SY/In	Ton				
3077	Tack Coat (Undiluted Application Rate)		.06	Gal/SY	Gal				
Note:	ote: Asphalt weight based on 110 Lbs./SY/In								

Provide PG binder 64-22 in Type SP-C mixture. An approved anti-stripping agent will be required.

Tack coat is required. Dilution of tack is not allowed.

Asphalt edges will be beveled to eliminate pavement drop offs.

When work is being performed for Planing and Inlaying HMAC, the use of the Temporary Work Zone Rumble Strips shall be required, in accordance with WZ(RS)-22 and in conjunction with all other applicable TCP standards.

County: KAUFMAN, ETC.

Highway: US 80, ETC.

All mixing, placing, and compacting will be completed during daylight hours only. Unless otherwise approved, dumping of the asphalt mixture in a windrow and then placing the mixture in the finishing machine will not be permitted.

Storing the completed mix on the ground will not be permitted at the mixing plant or the job site. Any mix that comes in contact with the earth or other objectionable foreign matter will be rejected.

Provide Short Term Work Zone Pavement Markings where striping is eliminated.

Item 6185: Truck Mounted Attenuator (TMA)

Although TMAs are not shown nor required in all the TCP(SC) series standards, it is recommended that the use of a TMA should be available to be used as it is deemed necessary, or as directed by the Engineer, if it is not required for the applicable TCP(SC) standard used for the work being performed. All required TMAs in the applicable TCP(SC) standard for the work being performed, shall be used as indicated in the TCP layout.

The total number of truck mounted attenuators (TMA) recommended and required, when utilizing the seal coat traffic control standards, are shown in the table below:

TCP SC Series	S	cenar	io	Recom	mended TMA(s)				
(SC-1)-22		All			1				
(SC-2)-22	Α	В	С	1	2	2			
(SC-3)-22	Α	В	С	2	2	4			
(SC-4)-22		All			1				
(SC-5)-22		All			1				
TCP SC Series	Scenario			Req	uired TM	A(s)			
(SC-6)-22	А	В	С	2	1	1			

The contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMA(s) needed for the project per plan requirements. Additional TMA(s) used that are not specified in the plans, in which the contractor expects compensation, will require prior approval from the Engineer.

When TMA's are paid by the hour or day, "ready for operation" is defined as all equipment, material, personnel, etc. are present on the project ready to begin work.



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 555, FM 556, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECT	-	0095-03	0095-03-107 A00180497		0095-04-077 0121-04-029 0122-01-046 0122-07-		-003	-08-018	8-018					
		PRO	JECT ID	A00180			936	A0018	1264	A00181	L263	A00181	266	A003	L81265	
		COUNTY Kaufman Kaufman Navarro Navarro Navarro				ro	Navarro		ro							
		н	GHWAY	US 8	0	US 8	0	SH	22	BU 28	87T	SS 29	4	FM 55		
В	ID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	
3	816-6255	AGGR(TY-PL GR-3LW SAC-B)	CY					1,079.000				185.000		751.00	0	
3	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY	729.000		1,157.000				152.000						
3	816-6454	ASPH (AC-15P,AC-20-5TR, OR AC-20XP)	TON	125.380		199.040		207.840		26.080		35.690		144.70	0	
3	354-6045	PLANE ASPH CONC PAV (2")	SY	22,929.000		13,443.000						863.000				
5	500-6001	MOBILIZATION	LS	1.000												
5	602-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО	10.000												
5	33-6003	RUMBLE STRIPS (SHOULDER) ASPHALT	LF													
5	33-6004	RUMBLE STRIPS (CENTERLINE) ASPHALT	LF													
5	60-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA	2.000				1.000						2.00	0	
5	60-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA													
5	60-6013	MAILBOX INSTALL-M (TWW-POST) TY 4	EA									2.000				
6	62-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	2,672.000		2,557.000										
6	62-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	1,575.000		2,521.000		2,594.000		424.000		614.000		2,894.00	0	
6	66-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF													
6	66-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF													
6	66-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF													
6	66-6141	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	LF													
6	66-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF	6,870.000		8,520.000				120.000						
6	66-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	31,888.000		58,285.000		51,564.000		7,701.000		10,635.000		57,228.00	0	
6	66-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF	2,951.000		8,705.000				868.000						
6	66-6179	REFL PAV MRK TY II (W) 12" (LNDP)	LF													
6	66-6180	REFL PAV MRK TY II (W) 12" (SLD)	LF	1,062.000		418.000										
6	66-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	168.000		1,086.000		72.000		78.000		60.000		146.00	0	
6	66-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF			1,590.000		4,590.000		160.000		410.000		5,110.00	0	
6	66-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	31,507.000		46,475.000		30,722.000		2,704.000		11,958.000		26,218.00	0	
6	66-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF	868.000		934.000				281.000						
6	66-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF													
6	66-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF													
6	66-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF													
6	66-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF													
6	66-6441	RE PROF PM (W)4"(SLD) RAISD PROF ONLY	LF	31,888.000		58,285.000				7,701.000		10,635.000		57,228.00	0	
6	66-6442	RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	LF	31,507.000		46,475.000				2,704.000		11,958.000		26,218.00	0	
6	66-6443	RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	LF			1,590.000				160.000		410.000		5,110.00	0	
6	68-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	2.000		27.000				6.000						
6	68-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	2.000		25.000										_
6	68-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA													
	68-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA			24.000				20.000						

SJ	SHEET
3-107	4



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 566, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTION JOB			3-107	0095-04	4-077	0121-0	4-029	0122-01	L-046	0122-0	7-003	0162-0	8-018		
		PROJ	ECT ID	A0018	0497	A0018	3936	A0018	1264	A0018:	L263	A0018	A00181266 A001812				
		C	ουντγ	Kaufr	nan	Kaufr	nan	Nava	nro	Nava	rro	Nava	Navarro Navarro				
		ніс	GHWAY	US 8	B0	US	30	SH	22	BU 28	37T	SS 2	294	FM !	55		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	672-6007	REFL PAV MRKR TY I-C	EA	90.000		170.000											
	672-6009	REFL PAV MRKR TY II-A-A	EA	790.000		1,097.000		649.000		98.000		154.000		723.000			
	672-6010	REFL PAV MRKR TY II-C-R	EA	407.000		425.000											
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF			6,985.000				1,155.000							
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF			2,590.000											
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF			511.000				104.000							
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA			27.000											
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA			25.000											
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA			18.000											
	678-6001	PAV SURF PREP FOR MRK (4")	LF			6,985.000				1,155.000							
	678-6004	PAV SURF PREP FOR MRK (8")	LF			2,590.000											
	678-6008	PAV SURF PREP FOR MRK (24")	LF			511.000				104.000							
	678-6009	PAV SURF PREP FOR MRK (ARROW)	EA			27.000											
	678-6016	PAV SURF PREP FOR MRK (WORD)	EA			25.000											
	678-6023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA			18.000											
	3077-6011	SP MIXESSP-CPG64-22	TON	2,522.200		1,478.800						94.900					
	3077-6075	TACK COAT	GAL	1,376.000		807.000						52.000					
	6185-6005	TMA (MOBILE OPERATION)	DAY	125.000													
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000													
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000													
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS	1.000													
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000													



DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	4A



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 555, FM 556, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTIO	JN JOB	0162-09	-042	0197-11	-014	0261-02	2-082	0387-0	5-025	0522-0	1-025	0697	-03-032	
		PROJ	ECT ID	A00181	.285	A00180	964	A00191	.329	A0018)301	A0018	1225	A00	180353	
		C	OUNTY	Navar	rro	Kaufm	an	Dalla	as	Coll	in	Kaufr	man	Ka	ufman	
		HIG	HWAY	FM 70	09	FM 13	90	US 6	57	FM 9	82	SH 2	243	FI	4 429	
т	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	
	316-6255	AGGR(TY-PL GR-3LW SAC-B)	CY	540.000		648.000		1,029.000				2,114.000		1,449.0	00	
	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY							864.000						
	316-6454	ASPH (AC-15P,AC-20-5TR, OR AC-20XP)	TON	104.070		124.930		206.930		148.660		407.350		279.1	50	
Γ	354-6045	PLANE ASPH CONC PAV (2")	SY	1,597.000		4,268.000								5,193.0	00	
Ī	500-6001	MOBILIZATION	LS													
Γ	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO													
Γ	533-6003	RUMBLE STRIPS (SHOULDER) ASPHALT	LF											3,020.0	00	
Γ	533-6004	RUMBLE STRIPS (CENTERLINE) ASPHALT	LF											1,510.0	00	
Γ	560-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA	2.000		3.000		29.000		2.000		5.000		3.0	00	
F	560-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA	1.000				1.000								
F	560-6013	MAILBOX INSTALL-M (TWW-POST) TY 4	EA					1.000		2.000						
Γ	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA					585.000				586.000				
Γ	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	1,776.000		2,245.000				755.000		7,207.000		5,116.0	00	
Γ	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF													
Γ	666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF													
Γ	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF													
Γ	666-6141	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	LF													
Γ	666-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF					5,830.000								
Γ	666-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	34,758.000		46,318.000		30,371.000		44,586.000		135,392.000		99,582.0	00	
	666-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF					5,640.000				1,925.000				
Γ	666-6179	REFL PAV MRK TY II (W) 12" (LNDP)	LF	131.000												
Γ	666-6180	REFL PAV MRK TY II (W) 12" (SLD)	LF	1,156.000												
	666-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	112.000		102.000		468.000		206.000		334.000		212.0	00	
Γ	666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	410.000		3,330.000						13,160.000		6,050.0	00	
	666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	32,646.000		24,942.000		37,581.000		45,280.000		65,148.000		66,018.0	00	
Γ	666-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF					2,470.000				1,151.000				
Γ	666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF													
Γ	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF													
Γ	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF													
Γ	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF													
Γ	666-6441	RE PROF PM (W)4"(SLD) RAISD PROF ONLY	LF	34,758.000		46,318.000		30,371.000		44,586.000		135,392.000				
	666-6442	RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	LF	32,646.000		24,942.000		37,581.000		45,280.000						
	666-6443	RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	LF	410.000		3,330.000										
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	2.000				8.000				11.000				
	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA									9.000				
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA													
	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA	3.000				12.000								
								i						DISTRICT	COUNTY	$\overline{\Box}$
Ъċ	T CONNI	ECT				erated By: txdotcor				eated On: Nov 28						

SHEET

4B



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 566, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTIO	N JOB	0162-09	9-042	0197-11	L-014	0261-02	2-082	0387-0	5-025	0522-01	L-025	0697-0	3-032
		PROJE	CT ID	A0018	1285	A00180	0964	A00191	1329	A0018	80301	A0018:	1225	A0018	0353
		cc	DUNTY	Nava	rro	Kaufn	nan	Dalla	as	Col	lin	Kaufn	nan	Kaufr	man
		HIG	HWAY	FM 7	09	FM 13	390	US 6	57	FM	982	SH 2	43	FM 4	29
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	672-6007	REFL PAV MRKR TY I-C	EA									386.000			
	672-6009	REFL PAV MRKR TY II-A-A	EA	444.000		558.000				503.000		1,722.000		1,310.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA					1,063.000							
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF			1,304.000				1,200.000					
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF												
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF												
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA												
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA												
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA												
	678-6001	PAV SURF PREP FOR MRK (4")	LF			1,304.000				1,200.000					
	678-6004	PAV SURF PREP FOR MRK (8")	LF												
	678-6008	PAV SURF PREP FOR MRK (24")	LF												
	678-6009	PAV SURF PREP FOR MRK (ARROW)	EA												
	678-6016	PAV SURF PREP FOR MRK (WORD)	EA												
	678-6023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA												
	3077-6011	SP MIXESSP-CPG64-22	TON	175.700		469.500								571.300	
	3077-6075	TACK COAT	GAL	96.000		256.000								311.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY												
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS												



DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	4C



CONTROLLING PROJECT ID 0095-03-107

 DISTRICT
 Dallas
 COUNTY
 Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall

 HIGHWAY
 BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 556, FM 637, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTIO	-	0718-0	1-072	0751-03	8-044	0816-02	2-087	0816-04-		0816-05	-026	0834-0	
		PROJ	ECT ID	A0018	1440	A00180)333	A00181	218	A001802	232	A00180	323	A001	1606
		C	OUNTY	Dent	ton	Kaufn	nan	Dento	on	Collin	n	Collin	า	EI	is
		ню	GHWAY	FM 1	.56	FM 1	48	FM 4	55	FM 45	5	FM 28	62	FM	308
.т	BID CODE	DESCRIPTION	UNIT	EST.	FINAL										
	316-6255	AGGR(TY-PL GR-3LW SAC-B)	CY			481.000		1,351.000		576.000		571.000		713.000	
Ī	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY	1,074.000											
Ī	316-6454	ASPH (AC-15P,AC-20-5TR, OR AC-20XP)	TON	184.730		92.710		260.300		110.920		109.980		137.430	
Ī	354-6045	PLANE ASPH CONC PAV (2")	SY												
Ī	500-6001	MOBILIZATION	LS												
Ī	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO												
Ī	533-6003	RUMBLE STRIPS (SHOULDER) ASPHALT	LF												
Ī	533-6004	RUMBLE STRIPS (CENTERLINE) ASPHALT	LF												
Ī	560-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA			4.000		15.000							
Ī	560-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA												
Ī	560-6013	MAILBOX INSTALL-M (TWW-POST) TY 4	EA					5.000							
Ī	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA			40.000									
Ī	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	2,141.000		1,162.000		5,279.000		3,147.000		1,963.000		2,530.000	
Ī	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF												
Ī	666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF												
Ī	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF												
Ī	666-6141	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	LF												
Ī	666-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF												
Ī	666-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	52,060.000		31,347.000		83,040.000		49,670.000		37,420.000		56,942.000	
Ī	666-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF			60.000									
Ī	666-6179	REFL PAV MRK TY II (W) 12" (LNDP)	LF												
Ī	666-6180	REFL PAV MRK TY II (W) 12" (SLD)	LF												
Ī	666-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	160.000		84.000		128.000		102.000		108.000		76.000	
Ī	666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	5,110.000		2,550.000		8,240.000		4,720.000		4,590.000		3,950.000	
Ī	666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	12,120.000		7,950.000		61,770.000		34,570.000		11,786.000		23,281.000	
Ī	666-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF												
Ī	666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF												
Ī	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF												
Ī	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF												
Ī	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF												
Ì	666-6441	RE PROF PM (W)4"(SLD) RAISD PROF ONLY	LF					83,040.000				37,420.000		56,942.000	
Ī	666-6442	RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	LF					61,770.000						23,281.000	
Ì	666-6443	RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	LF					8,240.000						3,950.000	
Ī	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA			2.000				1.000					
Ī	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA			2.000				1.000					
Ī	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA												
İ	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA												

DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	4D



CONTROLLING PROJECT ID 0095-03-107

 DISTRICT
 Dallas
 COUNTY
 Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall

 HIGHWAY
 BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 556, FM 637, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECT	ION JOB	0718-0	1-072	0751-03	3-044	0816-0	2-087	0816-0	4-108	0816-0	5-026	0834-0	1-015
		PRO	JECT ID	A0018	1440	A0018	0333	A0018	1218	A0018	80232	A0018	0323	A0018	1606
			COUNTY	Dent	on	Kaufr	nan	Dent	ton	Col	lin	Col	lin	Elli	s
		HI	IGHWAY	FM 1	.56	FM 1	48	FM 4	155	FM	455	FM 2	862	FM 3	808
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	672-6007	REFL PAV MRKR TY I-C	EA			12.000									
	672-6009	REFL PAV MRKR TY II-A-A	EA	409.000		282.000		962.000		462.000		349.000		633.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA												
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF							2,840.000					
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF												
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF												
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA												
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA												
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA												
	678-6001	PAV SURF PREP FOR MRK (4")	LF							2,840.000					
	678-6004	PAV SURF PREP FOR MRK (8")	LF												
	678-6008	PAV SURF PREP FOR MRK (24")	LF												
	678-6009	PAV SURF PREP FOR MRK (ARROW)	EA												
	678-6016	PAV SURF PREP FOR MRK (WORD)	EA												
	678-6023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA												
	3077-6011	SP MIXESSP-CPG64-22	TON											881.200	
	3077-6075	TACK COAT	GAL											541.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY												
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS												



DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	4E



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 555, FM 556, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTION	-	0918-00	-386	0995-02	1-028	1000-01	-010	1012-03	5-026	1047-03	5-078	1048-0	
		PROJ	ECT ID	A00188	8512	A0018	1273	A00181	.280	A00180	0300	A00181	1260	A001	31261
		c	OUNTY	Dalla	as	Nava	rro	Navai	rro	Colli	in	Dalla	as	EI	lis
		ніс	GHWAY	Vario	us	FM 6	37	FM 64	42	FM 9	81	FM 13	382	FM	660
В	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
3	316-6255	AGGR(TY-PL GR-3LW SAC-B)	CY			348.000		1,172.000		740.000				851.000	
3	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY									1,046.000			
3	316-6454	ASPH (AC-15P,AC-20-5TR, OR AC-20XP)	TON			67.090		225.720		142.650		179.810		163.960	
3	354-6045	PLANE ASPH CONC PAV (2")	SY											2,231.000	
5	500-6001	MOBILIZATION	LS												
5	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО												
5	533-6003	RUMBLE STRIPS (SHOULDER) ASPHALT	LF												
5	533-6004	RUMBLE STRIPS (CENTERLINE) ASPHALT	LF												
5	560-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA					3.000						1.000	
5	560-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA												
5	560-6013	MAILBOX INSTALL-M (TWW-POST) TY 4	EA			1.000									
6	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA									2,256.000			
6	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA			1,360.000		4,604.000		3,990.000				3,540.000	
6	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	40,978.000											
6	666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF	984.000											
6	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	7,994.000											
6	666-6141	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	LF	10,867.000											
6	666-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF									7,120.000			
6	666-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF			27,056.000		45,479.000		58,620.000		29,147.000		70,158.000	
6	666-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF									3,279.000			
6	666-6179	REFL PAV MRK TY II (W) 12" (LNDP)	LF												
6	666-6180	REFL PAV MRK TY II (W) 12" (SLD)	LF												
6	666-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF			22.000		114.000		144.000		534.000		70.000	
6	666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF			1,410.000		9,310.000		5,660.000				2,760.000	
6	666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF			27,188.000		27,680.000		46,081.000		29,505.000		56,327.000	
6	666-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF												
6	666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF	23,520.000											
6	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	2,234,408.000											
6	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF	149,610.000											
6	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF	1,498,930.000											
6	666-6441	RE PROF PM (W)4"(SLD) RAISD PROF ONLY	LF			27,056.000		45,479.000		58,620.000				70,158.000	
6	666-6442	RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	LF			27,188.000		27,680.000		46,081.000				56,327.000	
6	666-6443	RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	LF			1,410.000		9,310.000		5,660.000				2,760.000	
6	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA									13.000			
6	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA							2.000		13.000			
6	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA												
	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA									60.000			

SJ	SHEET
)3-107	4F



CONTROLLING PROJECT ID 0095-03-107

 DISTRICT
 Dallas
 COUNTY
 Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall

 HIGHWAY
 BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 556, FM 637, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTIO	ON JOB	0918-0	00-386	0995-03	1-028	1000-01	-016	1012-0	3-026	1047-0	3-078	1048-0	2-037
		PROJ	ECT ID	A0018	38512	A0018	1273	A00181	280	A0018	0300	A0018	1260	A0018	1261
		C	DUNTY	Dal	llas	Nava	rro	Navar	ro	Coll	lin	Dall	as	Elli	S
		ніс	HWAY	Vari	ious	FM 6	37	FM 64	12	FM 9	981	FM 1	382	FM 6	60
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	672-6007	REFL PAV MRKR TY I-C	EA									364.000			
	672-6009	REFL PAV MRKR TY II-A-A	EA			340.000		1,151.000		674.000		30.000		885.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA									158.000			
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF			540.000				4,600.000		1,414.000		880.000	
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF												
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF												
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA												
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA												
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA												
	678-6001	PAV SURF PREP FOR MRK (4")	LF			540.000				4,600.000		1,414.000		880.000	
	678-6004	PAV SURF PREP FOR MRK (8")	LF												
	678-6008	PAV SURF PREP FOR MRK (24")	LF												
	678-6009	PAV SURF PREP FOR MRK (ARROW)	EA												
	678-6016	PAV SURF PREP FOR MRK (WORD)	EA												
	678-6023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA												
	3077-6011	SP MIXESSP-CPG64-22	TON											245.400	
	3077-6075	TACK COAT	GAL											134.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY												
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS												



DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	4G



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 566, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTION	-	1051-0	1-000	1051-0	1-001	1059-01	-049	1139-02	-025	1159-02	-039	1100-	01-031	_	
		PROJ	ECT ID	A0018	1603	A0018	1604	A00181	.581	A0018	L562	A00181	L262	A001	81601		
		C	ουντγ	Elli	S	Elli	S	Dent	on	Elli	5	Ellis	5	E	llis		
		ніс	GHWAY	FM 6	64	FM 6	64	FM 11	.73	FM 8	13	FM 8	79	FM	877		
۱LT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	316-6255	AGGR(TY-PL GR-3LW SAC-B)	CY					1,792.000		703.000		687.000		1,756.000)		
Γ	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY	967.000		765.000		628.000									
Γ	316-6454	ASPH (AC-15P,AC-20-5TR, OR AC-20XP)	TON	166.360		131.580		453.340		135.400		132.380		338.350)		
Γ	354-6045	PLANE ASPH CONC PAV (2")	SY							5,550.000				6,140.000)		
	500-6001	MOBILIZATION	LS														
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО														
Γ	533-6003	RUMBLE STRIPS (SHOULDER) ASPHALT	LF														
	533-6004	RUMBLE STRIPS (CENTERLINE) ASPHALT	LF											2,112.000)		
	560-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA	3.000								30.000		45.000)		
	560-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA									3.000		2.000)		
	560-6013	MAILBOX INSTALL-M (TWW-POST) TY 4	EA					1.000									
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA														
Γ	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	3,852.000		2,032.000		5,055.000		2,934.000		2,798.000		6,664.000)		
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF														
	666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF														
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF														
	666-6141	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	LF														
	666-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF					1,750.000						50.00)		
	666-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	76,172.000		40,303.000		85,935.000		58,001.000		55,481.000		132,507.00)		
	666-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF	145.000		518.000		660.000									
	666-6179	REFL PAV MRK TY II (W) 12" (LNDP)	LF														
	666-6180	REFL PAV MRK TY II (W) 12" (SLD)	LF														
	666-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	392.000		126.000		358.000		100.000		40.000		226.00)		
	666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	5,900.000		2,180.000		9,040.000		9,170.000		4,190.000		8,510.00)		
	666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	41,668.000		26,510.000		82,308.000		49,758.000		32,225.000		85,809.000)		
	666-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF														
	666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF														
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF														
	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF														
	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF														
	666-6441	RE PROF PM (W)4"(SLD) RAISD PROF ONLY	LF	76,172.000		40,303.000		85,935.000		58,001.000		55,481.000		132,507.00)		
	666-6442	RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	LF							49,758.000		32,225.000					
	666-6443	RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	LF							9,170.000		4,190.000					
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	2.000		3.000											
ľ	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	2.000		3.000		4.000									
ľ	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA					4.000									
ľ	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA					7.000		6.000							
	*****		- I I	I		ı		· ·	1				Г	DISTRICT	COUNTY	CCSJ	SH
	DTCONNE	ECT				rated By: txdotco				ated On: Nov 28		514		51011101		0095-03-107	4



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 566, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECT	ION JOB	1051-01	L-060	1051-0	1-061	1059-03	1-049	1139-0)2-023	1159-0	2-039	1160-0	1-031
		PRO	JECT ID	A0018	L603	A0018	1604	A0018	1581	A0018	81562	A0018	81262	A0018	1601
		(COUNTY	Elli	s	Elli	s	Dent	on	Ell	lis	EII	is	Elli	s
		н	GHWAY	FM 6	64	FM 6	64	FM 11	173	FM	813	FM	879	FM 8	877
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	672-6007	REFL PAV MRKR TY I-C	EA												
	672-6009	REFL PAV MRKR TY II-A-A	EA	963.000		508.000		818.000		734.000		700.000		1,666.000	
Γ	672-6010	REFL PAV MRKR TY II-C-R	EA					4.000							
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF					275.000		3,200.000		1,900.000			
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF												
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF												
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA												
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA												
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA												
	678-6001	PAV SURF PREP FOR MRK (4")	LF					275.000		3,200.000		1,900.000			
	678-6004	PAV SURF PREP FOR MRK (8")	LF												
	678-6008	PAV SURF PREP FOR MRK (24")	LF												
	678-6009	PAV SURF PREP FOR MRK (ARROW)	EA												
	678-6016	PAV SURF PREP FOR MRK (WORD)	EA												
	678-6023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA												
	3077-6011	SP MIXESSP-CPG64-22	TON							610.500				675.400	
	3077-6075	TACK COAT	GAL							334.000				369.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY												
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS												



DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	41



CONTROLLING PROJECT ID 0095-03-107

 DISTRICT
 Dallas
 COUNTY
 Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall

 HIGHWAY
 BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 556, FM 637, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTIO	ON JOB	1211-0	2-020	1289-01	L-034	1290-01	-014	1290-03	-032	1290-04	-016	1392-	03-016
		PROJ	ECT ID	A0018	1602	A0018	L600	A00180	9463	A00181	556	A00181	.557	A001	80303
		C	OUNTY	Elli	is	Nava	rro	Rockw	vall	Rockw	all	Rockw	vall	Co	llin
		ніс	GHWAY	FM 9	984	FM 11	26	FM 11	.41	SH 27	6	SH 23	76	FM	1461
LT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	316-6255	AGGR(TY-PL GR-3LW SAC-B)	CY	997.000		1,940.000		399.000						144.000)
	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY							123.000		573.000			
	316-6454	ASPH (AC-15P,AC-20-5TR, OR AC-20XP)	TON	192.030		373.810		76.950		21.090		98.530		27.710)
	354-6045	PLANE ASPH CONC PAV (2")	SY	1,834.000		4,753.000								3,202.000)
	500-6001	MOBILIZATION	LS												
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО												
	533-6003	RUMBLE STRIPS (SHOULDER) ASPHALT	LF												
	533-6004	RUMBLE STRIPS (CENTERLINE) ASPHALT	LF												
Ī	560-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA			1.000				4.000		5.000		1.000)
F	560-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA												
	560-6013	MAILBOX INSTALL-M (TWW-POST) TY 4	EA												
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA					49.000		77.000		79.000			
	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	3,626.000		7,698.000		1,538.000		294.000		1,449.000		232.000)
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF												
	666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF												
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF												
	666-6141	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	LF												
	666-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF												
	666-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	72,065.000		151,951.000		31,355.000		5,870.000		26,988.000		12,685.000)
	666-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF					720.000		480.000		500.000		351.000)
	666-6179	REFL PAV MRK TY II (W) 12" (LNDP)	LF												
	666-6180	REFL PAV MRK TY II (W) 12" (SLD)	LF												
	666-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	120.000		318.000		256.000		24.000		118.000		64.000)
	666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	4,970.000		9,790.000		2,580.000				2,000.000			
	666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	44,460.000		97,771.000		15,265.000		5,870.000		16,935.000		10,010.000)
	666-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF												
	666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF												
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF												
	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF												
	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF												
	666-6441	RE PROF PM (W)4"(SLD) RAISD PROF ONLY	LF	72,065.000		151,951.000								12,685.000)
F	666-6442	RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	LF	44,460.000		97,771.000								10,010.000)
	666-6443	RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	LF	4,970.000		9,790.000									
ľ	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA					7.000		2.000		2.000		7.000)
Ī	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA					7.000		2.000		2.000		3.000)
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA	2.000		4.000									
	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA												

DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	4J



CONTROLLING PROJECT ID 0095-03-107

 DISTRICT
 Dallas
 COUNTY
 Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall

 HIGHWAY
 BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 556, FM 637, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTI	ON JOB	1211-02	2-020	1289-01	L-034	1290-0	1-014	1290-0	3-032	1290-0	4-016	1392-0	3-016
		PRO	JECT ID	A0018	1602	A0018	L600	A0018	0463	A0018	1556	A0018	1557	A0018	0303
		(COUNTY	Elli	s	Nava	rro	Rock	wall	Rock	wall	Rock	wall	Coll	lin
		н	GHWAY	FM 9	84	FM 11	26	FM 1	.141	SH 2	276	SH 2	276	FM 1	461
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	672-6007	REFL PAV MRKR TY I-C	EA							25.000		26.000			
	672-6009	REFL PAV MRKR TY II-A-A	EA	906.000		1,925.000		320.000		73.000		294.000		125.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA												
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF			8,160.000									
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF												
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF												
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA												
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA												
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA												
	678-6001	PAV SURF PREP FOR MRK (4")	LF			8,160.000									
	678-6004	PAV SURF PREP FOR MRK (8")	LF												
	678-6008	PAV SURF PREP FOR MRK (24")	LF												
	678-6009	PAV SURF PREP FOR MRK (ARROW)	EA												
	678-6016	PAV SURF PREP FOR MRK (WORD)	EA												
	678-6023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA												
	3077-6011	SP MIXESSP-CPG64-22	TON	201.700		522.800								352.200	
	3077-6075	ТАСК СОАТ	GAL	110.000		285.000								192.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY												
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS												



DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	4K



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 566, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTIO	-	1397-0	1-034	1451-02	2-019	1492-0	1-012	1785-01	L-041	1973-01	1-019	2682	01-023	
		PROJ	ECT ID	A0018	0487	A0018	1607	A0018	1057	A00183	L584	A00180	0302	A001	81287	
		C	OUNTY	Kaufr	nan	Elli	s	Coll	in	Dent	on	Colli	in	Na	arro	
		ніс	HWAY	FM 1	836	FM !	55	FM 1	562	FM 18	330	FM 14	461	FM	2555	
т	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	
	316-6255	AGGR(TY-PL GR-3LW SAC-B)	CY	2,396.000		638.000		133.000								
Ī	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY							911.000		815.000		431.00	c	
	316-6454	ASPH (AC-15P,AC-20-5TR, OR AC-20XP)	TON	461.600		122.940		25.540		156.680		140.230		74.09	D	
Ī	354-6045	PLANE ASPH CONC PAV (2")	SY													
Γ	500-6001	MOBILIZATION	LS													
Ī	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО													
Γ	533-6003	RUMBLE STRIPS (SHOULDER) ASPHALT	LF													_
Γ	533-6004	RUMBLE STRIPS (CENTERLINE) ASPHALT	LF													
	560-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA	3.000						3.000		1.000				
	560-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA													
F	560-6013	MAILBOX INSTALL-M (TWW-POST) TY 4	EA							1.000						
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	104.000												
	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	7,968.000		2,510.000		616.000		5,108.000		4,499.000		1,840.00	c	
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF													
	666-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF													
Ī	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF													
	666-6141	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	LF													
	666-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF													
	666-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	159,361.000		59,090.000		10,170.000		70,090.000		54,735.000		35,442.00	c	_
	666-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF	122.000						2,640.000		1,700.000		2,018.00	c	
	666-6179	REFL PAV MRK TY II (W) 12" (LNDP)	LF													
	666-6180	REFL PAV MRK TY II (W) 12" (SLD)	LF													
Ī	666-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	250.000		50.000		24.000		364.000		510.000		213.00	c	
	666-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	11,070.000		3,570.000		880.000		7,080.000		4,910.000		1,350.00	c	
Γ	666-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	92,945.000		30,918.000		7,203.000		61,315.000		55,065.000		32,551.00	c	
Γ	666-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF							1,350.000						
	666-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF													
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF													
	666-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF													
	666-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF													_
Ī	666-6441	RE PROF PM (W)4"(SLD) RAISD PROF ONLY	LF	159,361.000		59,090.000		10,170.000				54,735.000		35,442.00	c	_
Ī	666-6442	RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	LF	92,945.000		30,918.000		7,203.000		61,315.000				32,551.00	c	_
F	666-6443	RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	LF	11,070.000		3,570.000		880.000		7,080.000				1,350.00	b	
F	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	1.000						17.000		14.000		4.00	b	
ſ	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	1.000						17.000		14.000		8.00	b	
F	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA							2.000						_
F	668-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA	20.000				3.000								_

CCSJ	SHEET
0095-03-107	4L



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 566, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECTIO	N JOB	1397-01	L-034	1451-0	2-019	1492-0	1-012	1785-0	1-041	1973-0	1-019	2682-0	1-023
		PROJE	CT ID	A00180)487	A0018	1607	A0018	1057	A0018	1584	A0018	0302	A0018	1287
		CC	UNTY	Kaufn	nan	Elli	S	Coll	lin	Den	ton	Coll	lin	Nava	irro
		HIG	HWAY	FM 18	36	FM !	55	FM 1	562	FM 1	830	FM 1	461	FM 2	555
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	672-6007	REFL PAV MRKR TY I-C	EA	26.000											
	672-6009	REFL PAV MRKR TY II-A-A	EA	1,920.000		627.000		121.000		685.000		688.000		460.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA												
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	2,960.000								840.000			
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF												
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF												
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA												
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA												
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA												
	678-6001	PAV SURF PREP FOR MRK (4")	LF	2,960.000								840.000			
	678-6004	PAV SURF PREP FOR MRK (8")	LF												
	678-6008	PAV SURF PREP FOR MRK (24")	LF												
	678-6009	PAV SURF PREP FOR MRK (ARROW)	EA												
	678-6016	PAV SURF PREP FOR MRK (WORD)	EA												
	678-6023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA												
	3077-6011	SP MIXESSP-CPG64-22	TON												
	3077-6075	TACK COAT	GAL												
	6185-6005	TMA (MOBILE OPERATION)	DAY												
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS												
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS				_						_		
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS												



DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	4M



CONTROLLING PROJECT ID 0095-03-107

DISTRICT Dallas COUNTY Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall HIGHWAY BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 555, FM 556, FM 637, FM 642, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

		CONTROL SECT		2014-0	1-008	2847-0	1-010	2983-02-	008	3022-02-008		3053-01-008			
		PRC	JECT ID	A0018	1060	A0018	1563	A00181	505	A00180498		A00181286			
			COUNTY	Col	in	Nava	rro	Ellis		Kaufman		Navarro	TOTAL ES	T. TOT FIN	
		н	GHWAY	FM 2	756	FM 2	859	FM 56	6	FM 2965		FM 709			
В	ID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST. FI	NAL ES	T. FINAL			
3	316-6255	AGGR(TY-PL GR-3LW SAC-B)	CY	683.000		844.000		113.000		322.000	8	37.000	28,982	000	
3	316-6434	AGGR (TY-PB GR-4 OR TY-PL GR-4 (SAC-B)	CY										10,235	000	
3	316-6454	ASPH (AC-15P,AC-20-5TR, OR AC-20XP)	TON	131.530		162.600		21.680		61.960	1	61.210	7,352	710	
3	354-6045	PLANE ASPH CONC PAV (2")	SY										72,003	000	
5	00-6001	MOBILIZATION	LS										1	000	
5	02-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	МО										10	000	
5	33-6003	RUMBLE STRIPS (SHOULDER) ASPHALT	LF										3,020	000	
5	33-6004	RUMBLE STRIPS (CENTERLINE) ASPHALT	LF										3,622	000	
5	60-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA			1.000						2.000	171	000	
5	60-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA										7.	000	
5	60-6013	MAILBOX INSTALL-M (TWW-POST) TY 4	EA										13	000	
6	62-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA							138.000			9,143	000	
6	62-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	3,484.000		3,710.000		408.000		1,678.000	3,7	52.000	131,182	000	
6	66-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF										40,978	000	
6	66-6042	REFL PAV MRK TY I (W)12"(SLD)(100MIL)	LF										984	000	
6	66-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF										7,994	000	
6	66-6141	REFL PAV MRK TY I (Y)12"(SLD)(100MIL)	LF										10,867	000	
6	66-6167	REFL PAV MRK TY II (W) 4" (BRK)	LF										30,260	000	
6	66-6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	60,415.000		73,116.000		7,993.000		27,694.000	74,8	00.000	2,531,466	000	
6	66-6178	REFL PAV MRK TY II (W) 8" (SLD)	LF							540.000			33,822	000	
6	66-6179	REFL PAV MRK TY II (W) 12" (LNDP)	LF										131	000	
6	66-6180	REFL PAV MRK TY II (W) 12" (SLD)	LF										2,636	000	
6	66-6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	96.000		146.000		22.000		132.000		46.000	8,581	000	
6	66-6205	REFL PAV MRK TY II (Y) 4" (BRK)	LF	4,930.000		7,100.000				2,430.000	4,5	00.000	189,260	000	
6	66-6207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	40,180.000		31,298.000		8,378.000		14,215.000	50,3	04.000	1,692,418	000	
6	66-6212	REFL PAV MRK TY II (Y) 12" (SLD)	LF							220.000			7,274	000	
6	66-6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF										23,520	000	
6	66-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF										2,234,408	000	
6	66-6312	RE PM W/RET REQ TY I (Y)4"(BRK)(100MIL)	LF										149,610		
-	66-6315	RE PM W/RET REQ TY I (Y)4"(SLD)(100MIL)	LF										1,498,930		
6	66-6441	RE PROF PM (W)4"(SLD) RAISD PROF ONLY	LF			73,116.000		7,993.000		27,694.000	74,8	00.000	2,023,378		
6	66-6442	RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	LF			31,298.000		8,378.000		14,215.000		04.000	1,064,989		
6	66-6443	RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	LF			7,100.000				2,430.000	4,5	00.000	108,440		
6	68-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA							3.000			134		
6	68-6085	PREFAB PAV MRK TY C (W) (WORD)	EA										117		
6	68-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA											000	
-	68-6092	PREFAB PAV MRK TY C (W) (36")(YLD TRI)	EA										155		
	e * e	· · · · · · · · · · · · · · · · · · ·						I			I	I	DISTRICT	COUNTY	CCSJ



CONTROLLING PROJECT ID 0095-03-107

 DISTRICT
 Dallas
 COUNTY
 Collin, Dallas, Denton, Ellis, Kaufman, Navarro, Rockwall

 HIGHWAY
 BU 287T, FM 1126, FM 1141, FM 1173, FM 1382, FM 1390, FM 1461, FM 148, FM 156, FM 1562, FM 1830, FM 1836, FM 2555, FM 2756, FM 2859, FM 2862, FM 2965, FM 308, FM 429, FM 455, FM 55, FM 556, FM 637, FM 660, FM 664, FM 709, FM 813, FM 877, FM 879, FM 981, FM 982, FM 984, SH 22, SH 243, SH 276, SS 294, US 67, US 80, Various

CONTROL SECTION JOB		2814-01-008 2847-01-010		2983-	02-008	3022-02	2-008	3053-0	1-008						
	PROJECT ID COUNTY			A00181060 Collin		A00181563 Navarro		A001	81605	A00180	0498	A0018	1286		
			DUNTY					E	llis	Kaufn	nan	Navarro		TOTAL EST.	TOTAL FINAL
		HIG	HWAY	FM 2756		FM 2859		FM	566	FM 29	965	FM 7	' 0 9		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL		
	672-6007	REFL PAV MRKR TY I-C	EA							108.000				1,207.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	611.000		928.000		408.00	0	352.000		938.000		30,995.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA											2,057.000	
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	3,160.000		23,400.000				1,680.000				66,493.000	
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF											2,590.000	
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF											615.000	
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA											27.000	
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA											25.000	
	677-6019	ELIM EXT PAV MRK & MRKS (36")(YLD TRI)	EA											18.000	
	678-6001	PAV SURF PREP FOR MRK (4")	LF	3,160.000		23,400.000				1,680.000				66,493.000	
	678-6004	PAV SURF PREP FOR MRK (8")	LF											2,590.000	
	678-6008	PAV SURF PREP FOR MRK (24")	LF											615.000	
	678-6009	PAV SURF PREP FOR MRK (ARROW)	EA											27.000	
	678-6016	PAV SURF PREP FOR MRK (WORD)	EA											25.000	
	678-6023	PAV SURF PREP FOR MRK (36")(YLD TRI)	EA											18.000	
	3077-6011	SP MIXESSP-CPG64-22	TON											8,801.600	
	3077-6075	TACK COAT	GAL											4,863.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY											125.000	
	18	RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS											1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS											1.000	
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS											1.000	
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS											1.000	



DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Kaufman	0095-03-107	40

2023 TYPE(1)RETRACE SEAL COAT QUANTITY SUMMARY(0918-00-3)

	COUNTY			ROADWAY LIMITS				0666-6036	0666-6042 REFL PAV MRK	0666-6048 REFL PAV MRK	0666-6141 REFL PAV MRK	0666-6300 RE PM W/RET	0666-6309 RE PM W/RET	0666-6312 RE PM W/RET	0666-6315 RE PM W/RET	
REF NMBR		HIGHWAY	REFERENCE C-S-J	FROM		то	T	RDWY LENGTH (MI)	REFL PAV MRK TY I (W)8"(SLD) (100MIL) (LF)	TY I (W)12"(SLD) (100MIL)	TY I (W)24"(SLD) (100MIL)	TY I (Y)12"(SLD) (100MIL)	REQ TÝ I (W)4"(BRK) (100MIL)	REQ TÝ I (W)6"(SLD) (100MIL)	REQ TÝ I (Y)4"(BRK) (100MIL)	REQ TY I (Y)4"(SLD) (100MIL) (LF)
				DESCRIPTION	TRM	DESCRIPTION	TRM		. ,	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
R1	COLLIN	FM 543 +	1012-01-019	COWAN ROAD	226+0.506	770' W OF TRINITY FALLS PKWY	232+1.452	6.849	1,614		280	282		71,030	2,830	55,913
R2	COLLIN	FM 2478 +	2351-02-016	N. of FM 1461	226-0.025	FM 455	230+1.940	5.948	378		210	528		55,113	2,610	43,803
R3	COLLIN	FM 455	0816-04-107	DENTON CL	598+0.000	0.243 Mi E of FM 428	602+0.806	4.773			84			50,157	1,130	46,278
R4	COLLIN	SH 5 +	0047-04-037	ROSAMOND PKWY	226+0.609	COLLIN CL	222+1.644	2.610	1,240		112			26,612	2,390	10,655
R5	COLLIN	SH 5 +	0047-04-036	PENNSYLVANIA AVE	226+2.006	FM 455	230+1.455	3.510	2,494		154	928		36,338	2,790	29,766
R6	COLLIN	FM 981 +	1012-03-025	FM 1562	610+1.278	COLLIN CL	614+1.21	3.56			84			40,715	1,850	30,430
R7	COLLIN	FM 455 +	2845-01-023	SH 121	626-0.866	FM 2862	626+0.631	1.513			14			14,822	1,410	6,081
R8	COLLIN	FM 1827 +	1746-01-028	FM 545	230-0.052	FM 75	234+1.199	5.227			140			52,963	1,550	44,537
R9	COLLIN	FM 547 +	1014-01-018	US 380	238-0.040	FM 6	244+1.867	7.863	166		308			83,753	8,590	18,950
R10	DENTON	FM 2450 +	2353-02-027	GREGORY RD	222-0.019	FM 156	232+1.518	11.488			443			139,466	9,840	66,671
R11	DENTON	BUS 377 E +	0081-14-008	US 377N	222-0.026	US 377S	224+1.050	2.899	203	400	504	261		28,834	1,530	23,757
R12	DENTON	IH 35 +	0195-02-082	US 77	471+0.481	COOKE CL	482+ 0.620	11.152	19,769		1,147	7,146	15,140	116,912		139,834
R13	DENTON	FM 3163 +	3226-01-009	IH 35	564-0.121	FM 2164	566+0.583	2.660			62			26,536	2,230	14,318
R14	ELLIS	FM 308 +	1393-01-019	FM 66	302-0.032	US 77	312+0.580	10.718			98			2,424	7,860	68,776
R15	ELLIS	FM 875 +	0815-08-038	FM 157	572-0.039	FM 663	576+1.280	5.205			112			54,701	3,430	36,551
R16	ELLIS	FM 983 +	1048-01-032	FM 813	590-0.000	FM 664	596+1.685	7.648		68	168			79,560	4,180	56,999
R17	ELLIS	SH 342 +	0048-03-096	US 77	284+1.193	FM 664	288+0.595	3.455	1,534	60	112	426		48,743	3,390	38,845
R18	ELLIS	IH 45 +	0092-03-056	S. OF RISINGER RD	262+0.495	DALLAS CL	267+0.387	4.701	4,729		336	1,200	6,290	44,877	850	58,999
R19	ELLIS	FM 660 +	1048-02-036	E IH 45	284-1.619	FM 813	292+0.105	9.654		168	364	96		102,937	9,230	5,851
R20	ELLIS	IH 45 +	0092-04-079	S. OF HAMPEL RD	260+0.372	S. OF RISINGER RD	262+0.495	2.275	607		98			55,377	4,140	2,477
R21	ELLIS	FM 1182 +	1317-02-012	IH 45	606-2.012	FM 85	608+0.276	4.224			28				2,110	30,733
R22	ELLIS	FM 878 +	0596-04-044	WAXAHACHIE/WYATT ST.	584+1.385	US 287	584+2.111	0.726			42			7,792	800	2,737
R23	ELLIS	FM 664 +	1051-01-058	BU 287R	582-0.030	US 287	582+1.493	1.560						15,000	1,360	7,911
R24	ELLIS	FM 667 +	0747-01-019	NAVARRO CL	306-0.016	SH 34	312+0.337	6.169			56			65,379	3,570	49,521
R25	KAUFMAN	FM 1388	1217-03-025	SH 34 BY PASS	278+1.188	FM 148	284+1.341	5.964	665	198	126		1,200	62,681	5,890	36,150
R26	KAUFMAN	FM 148	0751-02-030	CREEK VIEW LN	282+0.585	FM 1390 S.	288+0.598	5.908	235		168			63,129	3,570	43,853
R27	KAUFMAN	FM 2932	2981-01-008	FM 741	270-0.038	FM 148	272+1.571	3.593			42			37,593	2,130	26,461
R28	KAUFMAN	FM 688 +	0095-11-010	US 80	606-2.018	FM 548	606+0.309	2.333	1,414		280		890	24,093	330	26,414
R29	KAUFMAN	FM 3486	1494-03-003	FM 986	262-2.460	SH 34	262+0.000	2.481			56			26,124	3,020	1,992
R30	KAUFMAN	FM 2728	2512-02-011	US 80	272-0.639	FM 429	274+0.290	2.923			70			31,228	3,800	5,225
R31	KAUFMAN	SH 34	0173-04-061	IH 20	314+0.241	SH 243	322+0.787	8.575	2,656	90	448			90,843	6,470	47,922
R32	KAUFMAN	FM 987	1217-02-018	FM 148	272-0.075	N. JEFFERSON ST'	278+1.341	7.290	,		196			80,439	6,040	41,245
R33	KAUFMAN	FM 2860 +	2846-01-007	US 175	618+0.881	FM 1895	620+1.755	2.841			56			29,850	2,900	17,901
R34	NAVARRO	SS 263	0162-10-002	SH 31	326-0.075	SH 31	326+0.017	0.092			14			,	,	
R35	NAVARRO	FM 2452 +	1724-02-015	SH 31	316-0.000	FM 709	318+3.219	5.209			98			54,711	3,660	35,319
R36	NAVARRO	FM 1126 +	1724-01-019	SH 31	318+0.876	SH 31	326+0.406	7.408			196			77,075	4,490	47,715
R37	NAVARRO	SH 22 +	0121-04-028	FM 667	604+1.021	NW CR 1190	616+1.883	12.482			490			130,412	8,830	76,699
R38	NAVARRO	FM 2930 +	1724-03-010	FM 55	592-0.020	FM 1126	598+0.426	6.264			28			69,810	2,910	50,643
R39	NAVARRO	FM 633 +	0719-01-019	SH 31	310+0.000	FM 1393	314+0.879	4.750			140			51,632	3,320	23,826
R40	NAVARRO	FM 1394 +	0999-01-047	IH 45	324+0.013	FM 641	332+1.346	9.017			350			93,156	6,260	57,734
R40 R41	NAVARRO	FM 1394 +	2462-01-011	FREESTONE CL	332+1.346	FM 641	338+0.000	3.239			28	-		33,336	3,810	9,189
R41	NAVARRO	FM 1394 + FM 1394	2462-01-011	NAVARRO CL	332+1.346	LIMESTONE CL	339+0.088	0.198			20			2,000	250	500
R42	ROCKWALL	FM 1394 FM 35 +	1017-02-013	IH 30	614+0.015	ROCKWALL CL	614+1.607	1.591	2,024		140				200	
														11,116	2.260	17,316
R44	ROCKWALL	FM 548	1014-02-047	SH 276	252+0.411	IH 30 E FRONTAGE	256+1.312	4.902	1,250		112			45,139	2,260	42,433

NOTE: FOR CONTRACTOR INFORMATION ONLY;

REFERENCE ALL ROADWAYS TO PROJECT CCSJ: 0047-04-036, ETC.

INDIVIDUAL ROADWAY CSJ'S ARE FOR REFERENCE ONLY

THE FOLLOWING NOTE ONLY APPLIES TO THE ABOVE ROADS IDENTIFIED BY A "+": AT LOCATIONS WHERE THE "RE PM W/RET REQ TY 1" STRIPPING ITEMS ARE TO BE INSTALLED OVER EXISTING PROFILE "BUMPS" THE REFLECTIVITY TESTING WILL NOT BE REQUIRED, AS NOTED IN GENERAL NOTES FOR ITEM 666, AT THOSE STRIPPING LOCATIONS ONLY."

DESIGN DS	FED.RD. DIV.NO.	HIGHWAY NO,				
GRAPHICS	6	SEE T	ITLE SHEET	US 80,ETC.		
DS	STATE	DISTRICT	COUNTY	SHEET NO.		
СНЕСК ЈН	TEXAS	DAL	KAUFMAN, ETC.	_		
CHECK	CONTROL	SECTION	JOB	5		
	0095	03	107,ETC.	•		

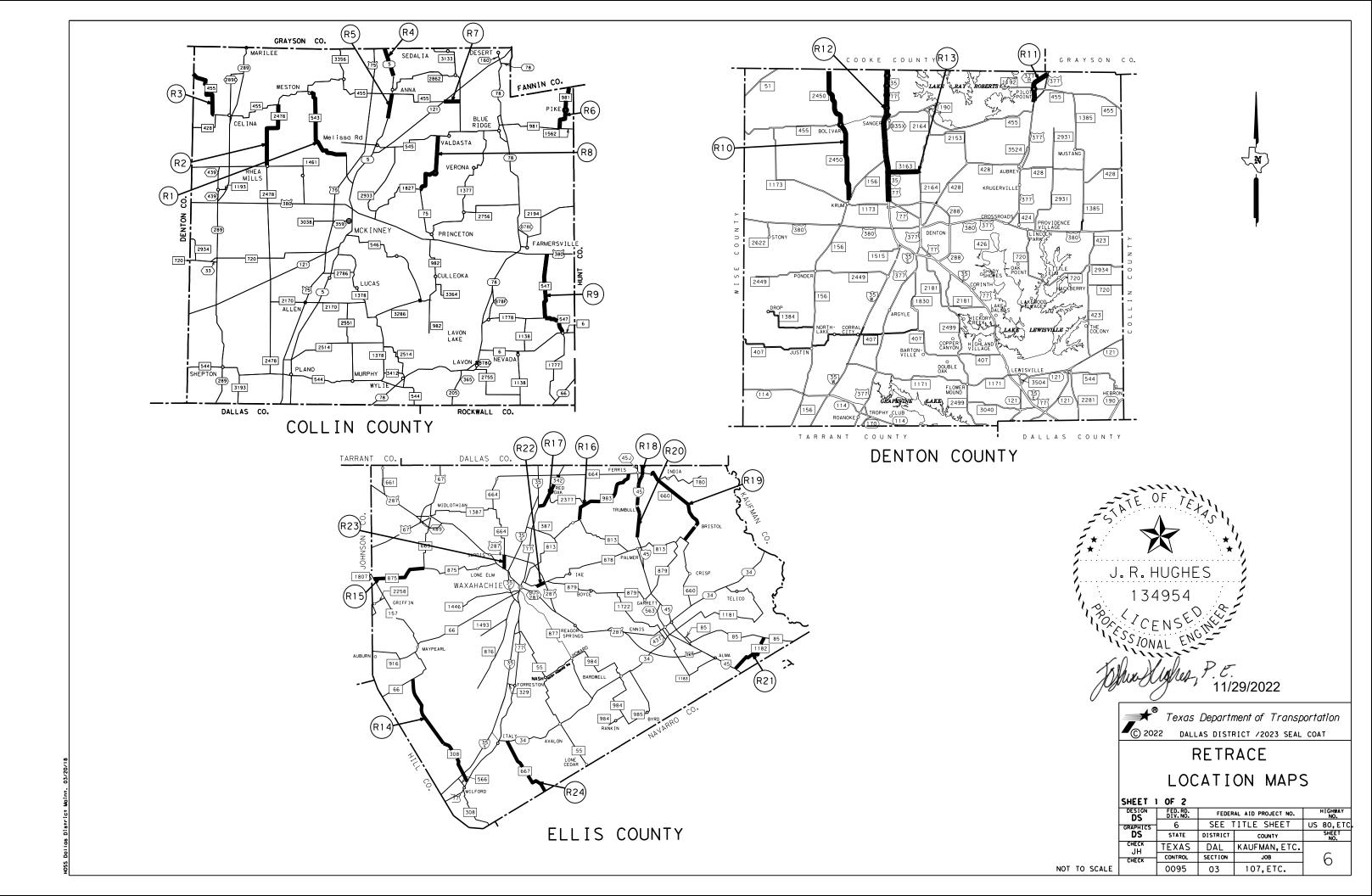
QUANTITY SUMMARY

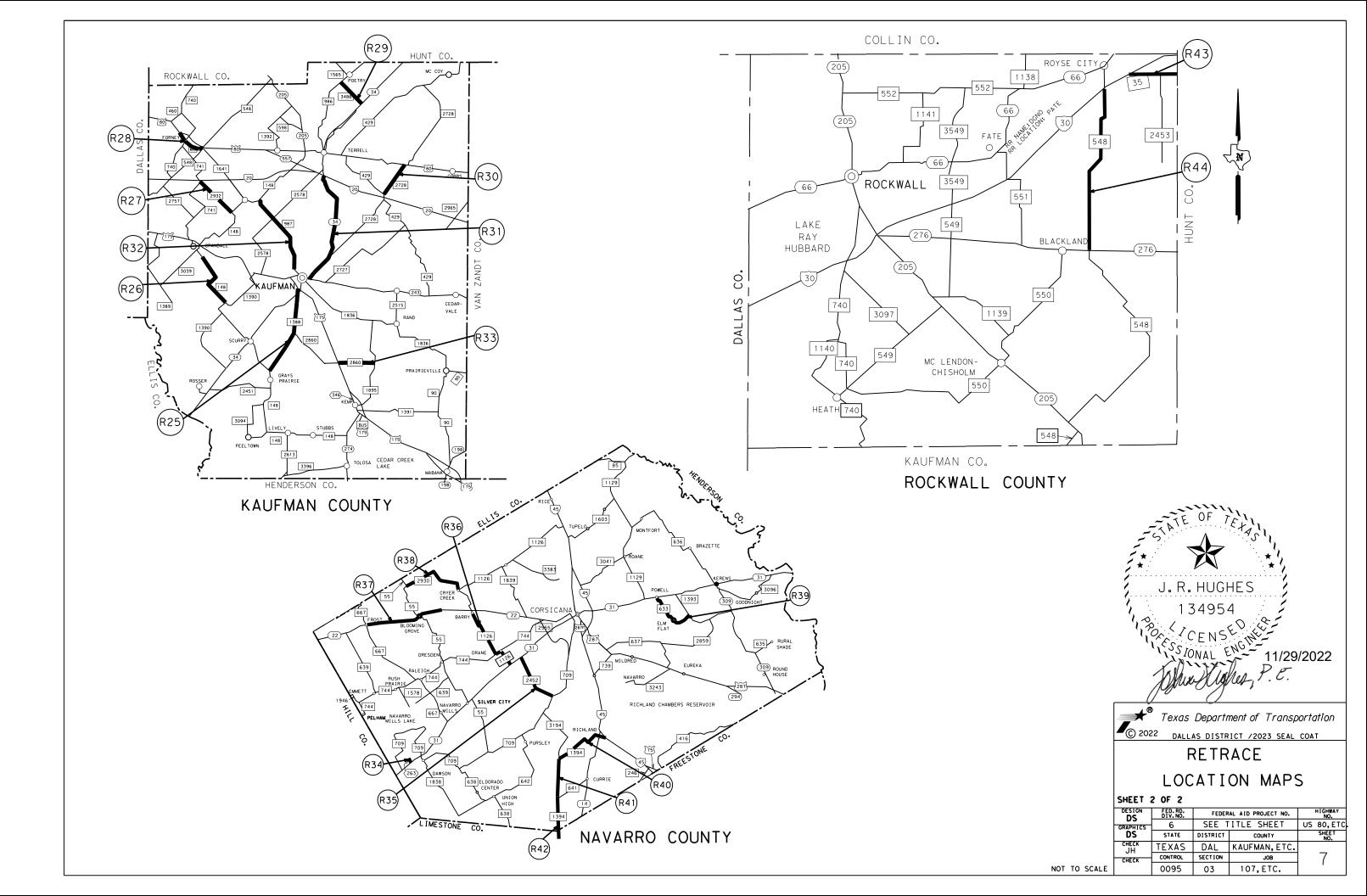
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Texas Department of Transportation

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BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- The Barricade and Construction Standard Sheets (BC sheets) are intended 1. to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the 2. responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop. sign and seal Contractor proposed changes.
- 4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- 5. Geometric design of 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.
- When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- 8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for 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.
- The temporary traffic control devices shown in the illustrations of the 9. 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, ČSJ limit signs are not required.
- 11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
- 12. The Engineer has the final decision on the location of all traffic control devices.
- 13. Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY NOTES:

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

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

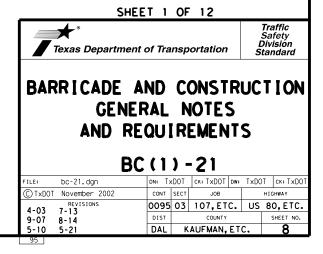
- 1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- 2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

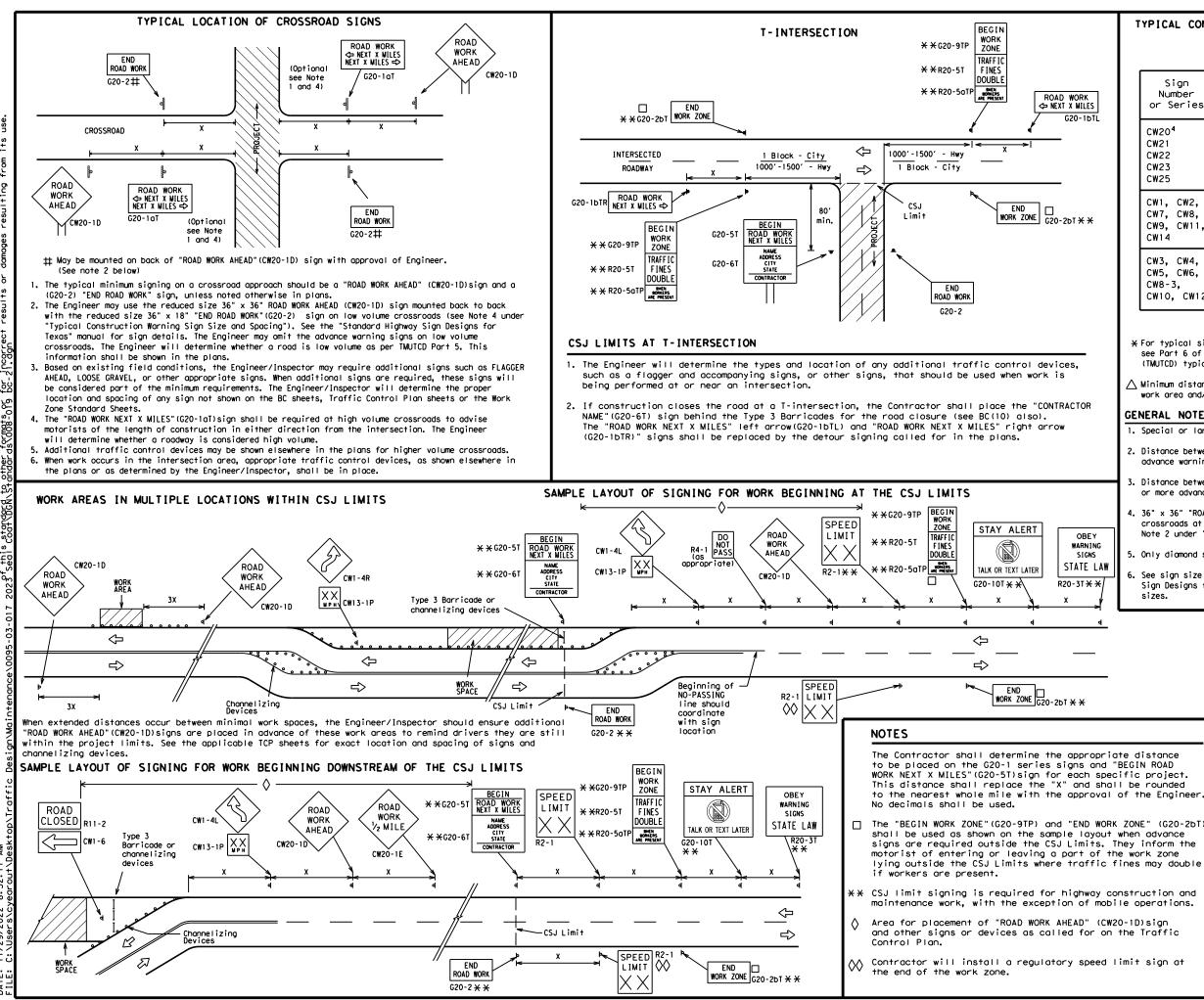
THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
MATERIAL PRODUCER LIST (MPL)
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)
TEXAS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

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TYPICAL	CONSTRUCTION	WARNING	SIGN	SIZE	AND	SPACING ^{1,5,6}

SIZE

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

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

SPACING

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

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

GENERAL NOTES

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

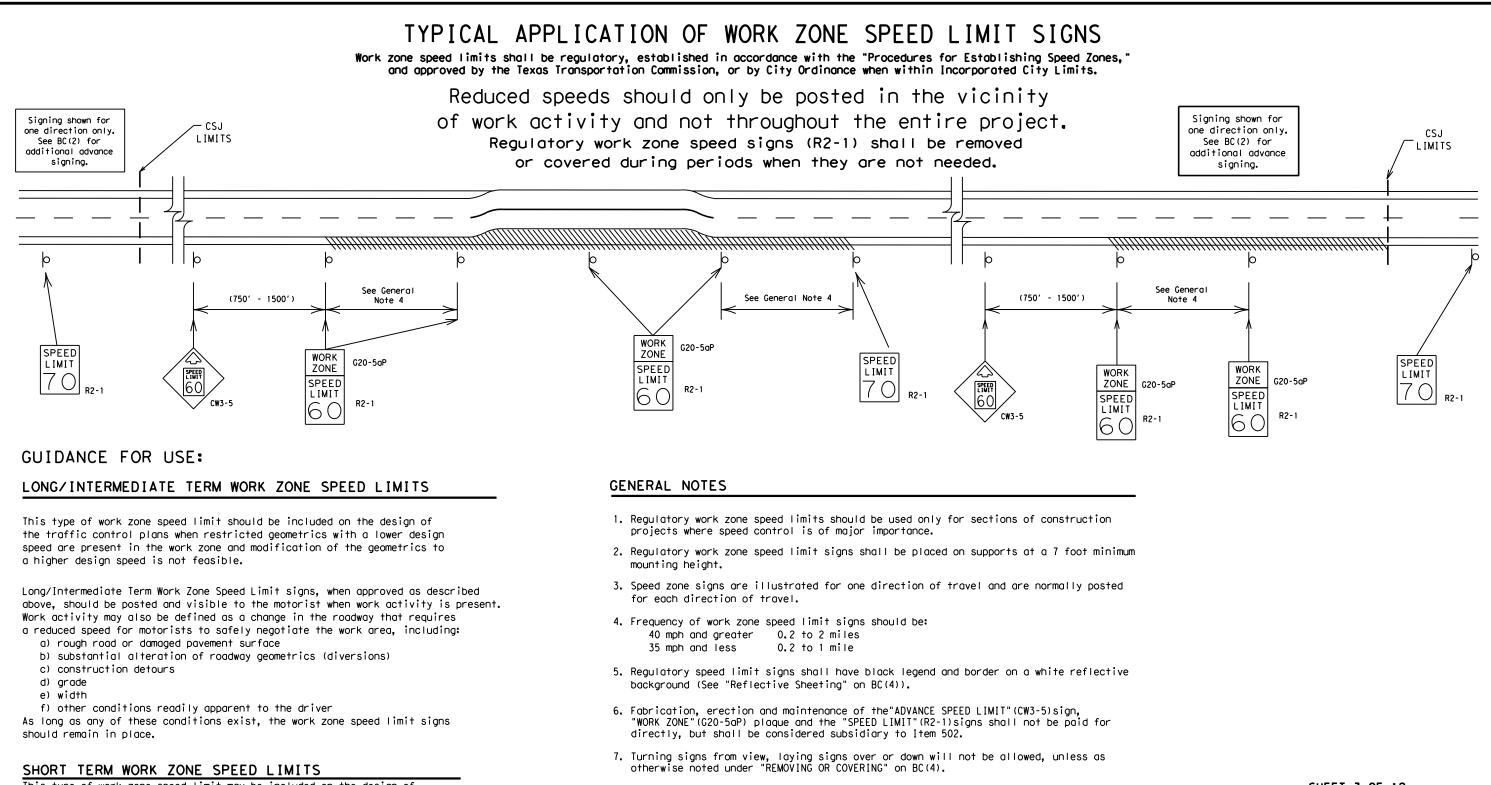
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6. See sign size listing in "TMUTCD", Sign Appendix or the "Standard Highway Sign Designs for Texas" manual for complete list of available sign design sizes.

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		Ι	Туре	3 Ba	rri	cade				
		000	Chanr	neliz	ing	Devices				
		4	Sign							
-	X X X X X X X X X X X X X X X X X X X									
	SHEET 2 OF 12									
 [)	Trat Safe Texas Department of Transportation									
•	BARRICADE AND CONSTRUCTION PROJECT LIMIT									
	FILE: 1	oc-21.dqn	BC) -	- 21	TxDO	T CK: TxDOT		
		lovember 200	2	CONT	SECT	JOB		HIGHWAY		
		REVISIONS		0095	03	107,ETC.	US	80,ETC.		
	9-07	B-14		DIST		COUNTY		SHEET NO.		

DAL KAUFMAN, ETC.

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

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

- 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.

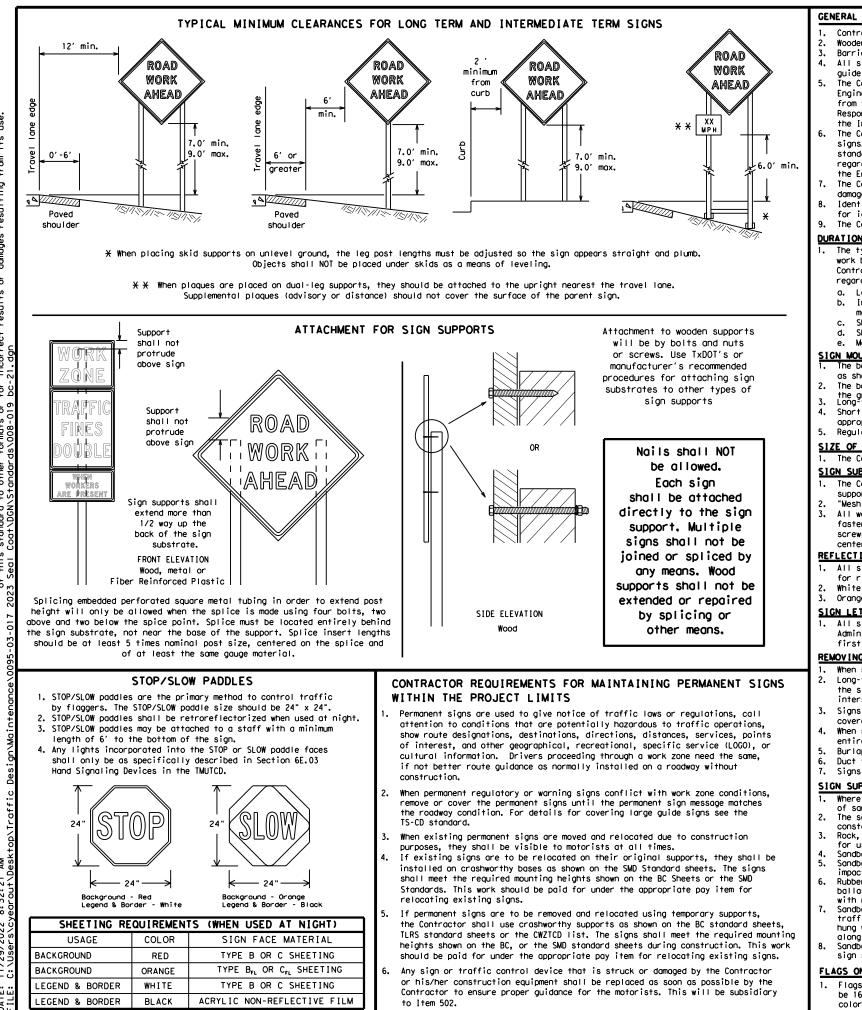
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	SHEI	<u>et 3</u>	OF	12						
7	★° Texas Department	of Tra	nsp	ortation		È	Traffic Safety Division tandard			
BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT BC(3)-21										
FILE:	bc-21.dgn	DN: Tx[)0T	ск: ТхDОТ	DW:	TxDO	T ск: TxDOT			
(C) TxDOT	November 2002	CONT	SECT	JOB			HIGHWAY			
	REVISIONS	0095	03	107,ET	с.	US	80,ETC.			
9-07	-	DIST	DIST		COUNTY		SHEET NO.			
7-13	J-21	DAL	AL KAUFMAN, ET			r l	. 10			
		DAL	I.V.	AUF MAN,	E I	C.	10			



GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white. Barricades shall NOT be used as sign supports
- guide the traveling public safely through the work zone.
- the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
- the Engineer can verify the correct procedures are being followed.
- damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- for identification shall be 1 inch.

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

- <u>DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)</u>
- regard to crashworthiness and duration of work requirements.
 - a. Long-term stationary work that occupies a location more than 3 days. more than one hour.
- Short-term stationary daytime work that occupies a location for more than 1 hour in a single daylight period.
- Short, duration work that occupies a location up to 1 hour.

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.
- the ground. Long-term/Intermediate-term Signs may be used in Lieu of Short-term/Short Duration signing.
- Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to
- appropriate Long-term/Intermediate sign height.

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

- "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave. 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.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway 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.
- intersections where the sign may be seen from approaching traffic. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely
- covered when not required.
- entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting. Burlap shall NOT be used to cover signs.
- Duct tape or other adhesive material shall NOT be affixed to a sign face.
- Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

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

FLAGS ON SIGNS

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

All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and

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 Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZICD) 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 guestion regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so

The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or

Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used

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

Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting

Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

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

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

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 CWZICD lists each substrate that can be used on the different types and models of sign supports. 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"

3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of

Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any

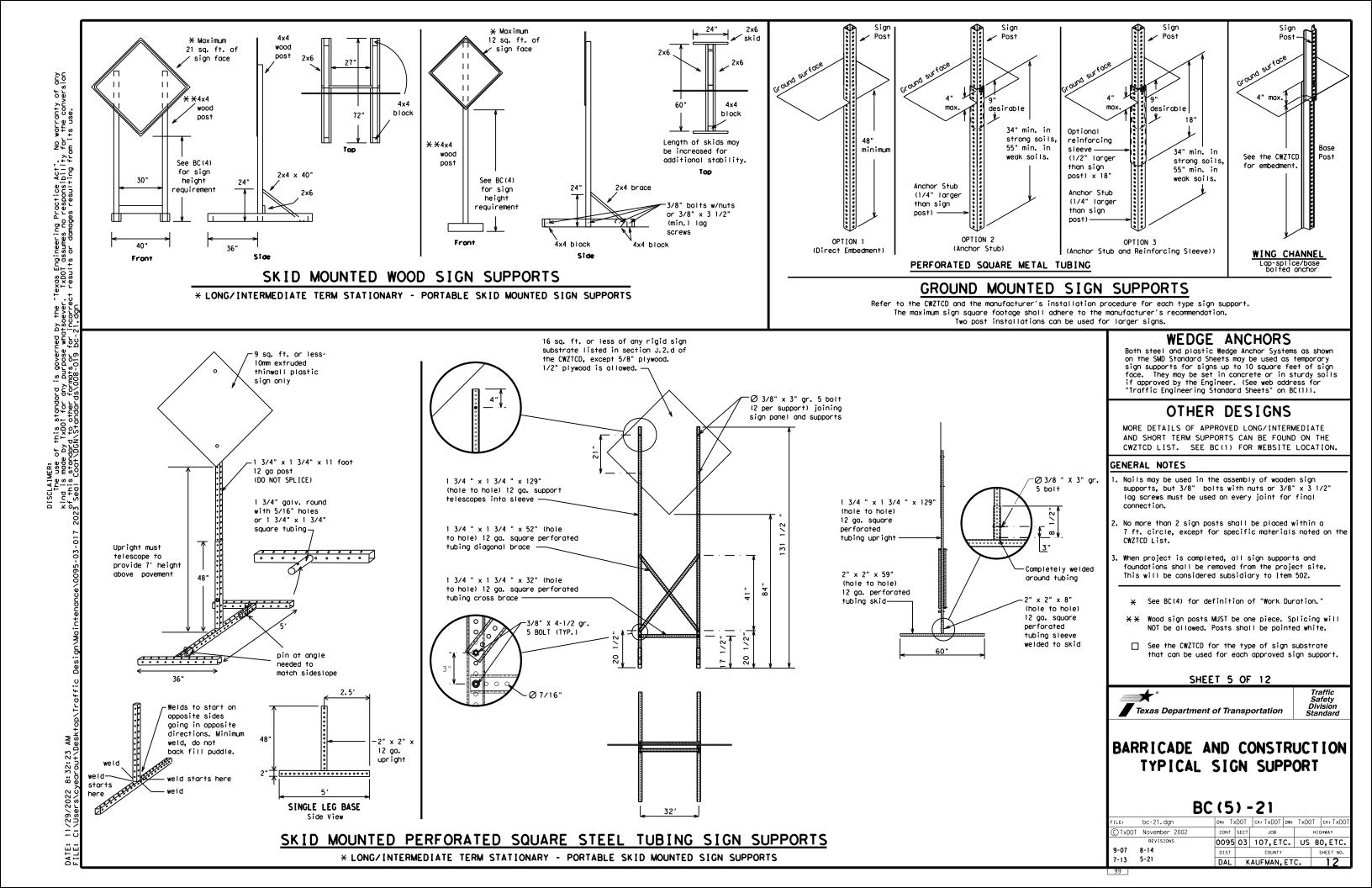
When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the

SHEET 4 OF 12

st Texas Department of Transportation Traffic Safety Division Standard

BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

		BC	(4) -	21					
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WHEN NOT IN USE, REMOVE THE PCMS FROM THE RIGHT-OF-WAY OR PLACE THE PCMS BEHIND BARRIER OR GUARDRAIL WITH SIGN PANEL TURNED PARALLEL TO TRAFFIC

PORTABLE CHANGEABLE MESSAGE SIGNS

- 1. The Engineer/Inspector shall approve all messages used on portable changeable message signs (PCMS).
- Messages on PCMS should contain no more than 8 words (about four to 2. 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."
- Always use the route or interstate designation (IH, US, SH, FM) 5. along with the number when referring to a roadway.
- When in use, the bottom of a stationary PCMS message panel should be a minimum 7 feet above the roadway, where possible.
- The message term "WEEKEND" should be used only if the work is to 7. 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.
- 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.
- 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.
- Do not use the word "Danger" in message.
 Do not display the message "LANES SHIFT LEFT" or "LANES SHIFT RIGHT" on a PCMS. Drivers do not understand the message.
- 13. Do not display messages that scroll horizontally or vertically across the face of the sign.
- 14. The following table lists abbreviated words and two-word phrases that are acceptable for use on a PCMS. Both words in a phrase must be displayed together. Words or phrases not on this list should not be abbreviated, unless shown in the TMUTCD.
- 15. PCMS character height should be at least 18 inches for trailer mounted units. They should be visible from at least 1/2 (.5) mile and the text should be legible from at least 600 feet at night and 800 feet in daylight. Truck mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- 16. Each line of text should be centered on the message board rather than left or right justified.
- 17. If disabled, the PCMS should default to an illegible display that will not alarm motorists and will only be used to alert workers that the PCMS has malfunctioned. A pattern such as a series of horizontal solid bars is appropriate.

WORD OR PHRASE	ABBREVIATION	WORD OR PHRASE	ABBREVIATION
Access Road	ACCS RD	Major	MAJ
Alternate	ALT	Miles	MI
Avenue	AVE	Miles Per Hour	MPH
Best Route	BEST RTE	Minor	MNR
Boulevard	BLVD	Monday	MON
Bridge	BRDG	Normal	NORM
Cannot	CANT	North	N
Center	CTR	Nor thbound	(route) N
Construction Ahead	CONST AHD	Parking	PKING
CROSSING	XING	Road	RD
Detour Route	DETOUR RTE	Right Lane	RT LN
Do Not	DONT	Saturday	SAT
East	F	Service Rood	SERV RD
Eastbound	(route) E	Shoulder	SHLDR
Emergency	EMER	Slippery	SLIP
Emergency Vehicle	EMER VEH	South	S
Entrance, Enter	ENT	Southbound	(route) S
Express Lane	EXP LN	Speed	SPD
Expression	EXPWY	Street	ST
XXXX Feet	XXXX FT	Sunday	SUN
Fog Ahead	FOG AHD	Telephone	PHONE
Freeway	FRWY, FWY	Temporary	TEMP
Freeway Blocked	FWY BLKD	Thursday	THURS
Friday		To Downtown	TO DWNTN
Hazardous Driving		Traffic	TRAF
Hazardous Material		Travelers	TRVLRS
	HAZMAT	Tuesday	TUES
High-Occupancy Vehicle	HUY	Time Minutes	TIME MIN
	HWY	Upper Level	UPR LEVEL
Highway Hour(s)	HR, HRS	Vehicles (s)	VEH, VEHS
Information	INFO	Warning	WARN
		Wednesday	WED
It Is		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	DUR

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

Phase 1: Condition Lists

Road/Lane/Ramp Closure List

		UTTEL CON	
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
VARIOUS LANES 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	LANES SHIFT ¥
XXXXXXXX BLVD CLOSED	* LANES SHIFT in Phase	1 must be used wit	n STAY IN LANE in Phas

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

Action to Take/Effect on Travel List MERGE FORM RIGHT X LINES RIGHT DETOUR USE XXXXX NEXT RD EXIT X EXITS USE USE EXIT EXIT XXX I-XX NORTH STAY ON USE US XXX I-XX F SOUTH TO I-XX N TRUCKS WATCH USE FOR US XXX N TRUCKS WATCH EXPECT FOR DELAYS TRUCKS PREPARE EXPECT DELAYS ТΟ STOP REDUCE END SPEED SHOULDER XXX FT USE WATCH USE OTHER FOR ROUTES WORKERS STAY ĪΝ LANE

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.
- appropriate.
- 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
- 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 some size arrow.

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

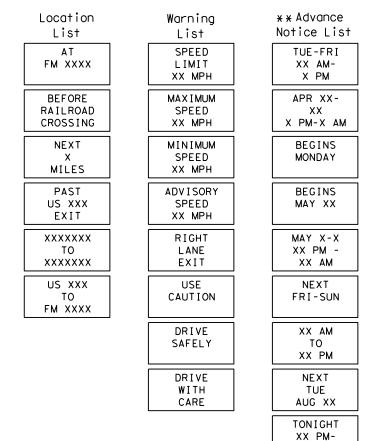
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ING ROADWORK ACTIVITIES

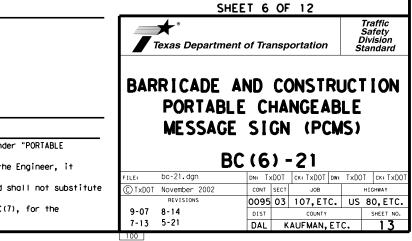
Phase 2: Possible Component Lists

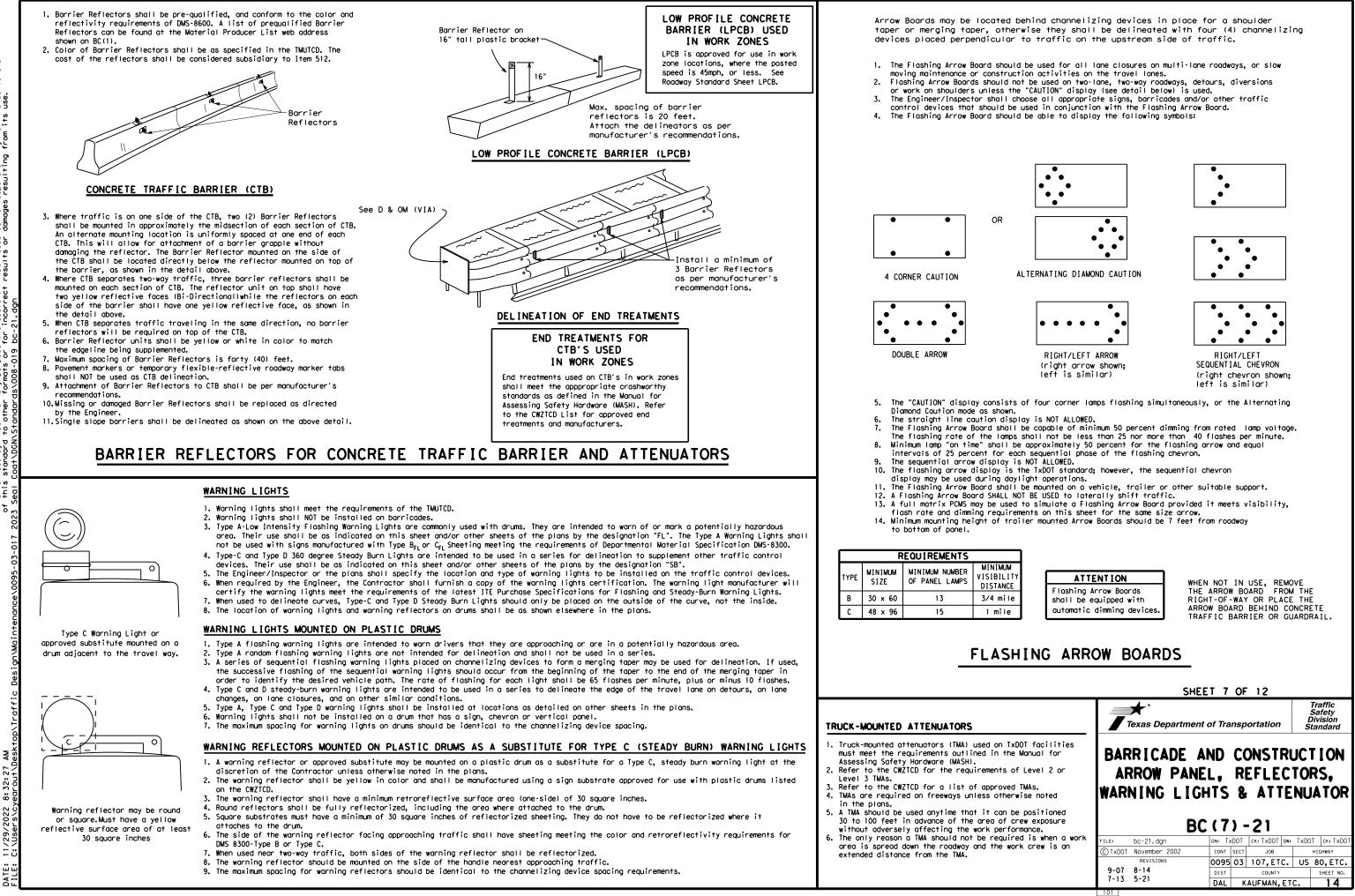


* * See Application Guidelines Note 6.

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2. Roadway designations IH, US, SH, FM and LP can be interchanged as EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can

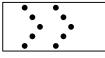














GENERAL NOTES

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

GENERAL DESIGN REQUIREMENTS

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

RETROREFLECTIVE SHEETING

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

BALLAST

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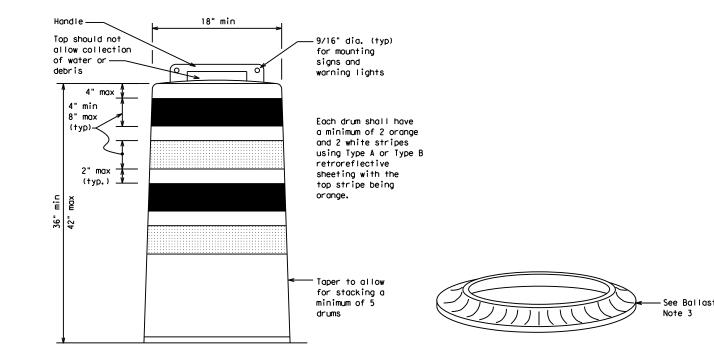
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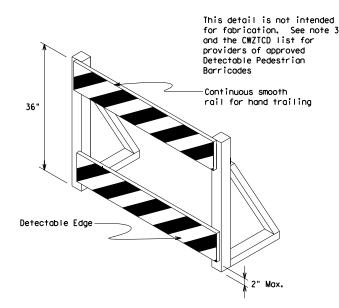
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- 1. Unballasted bases shall be large enough to hold up to 50 lbs. of sand. This base, when filled with the ballast material, should weigh between 35 lbs (minimum) and 50 lbs (maximum). The ballast may be sand in one to three sandbags separate from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





DETECTABLE PEDESTRIAN BARRICADES

- 1. When existing pedestrian facilities are disrupted, closed, or relocated in a TTC zone, the temporary facilities shall be detectable and include accessibility features consistent with the features present in the existing pedestrian facility. Refer to WZ(BTS-2) for Pedestrian Control requirements for Sidewalk Diversions, Sidewalk Detours and Crosswalk Closures. 2. Where pedestrians with visual disabilities normally use the
- closed sidewalk, a Detectable Pedestrian Barricade shall be placed across the full width of the closed sidewalk instead of a Type 3 Barricade.
- 3. Detectable pedestrian barricades similar to the one pictured above, longitudinal channelizing devices, some concrete barriers, and wood or chain link fencing with a continuous detectable edging can satisfactorily delineate a pedestrian
- 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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(Maximum Sign Dimension)

Chevron CW1-8, Opposing Traffic Lane

Divider, Driveway sign D70a, Keep Right

R4 series or other signs as approved

by Engineer



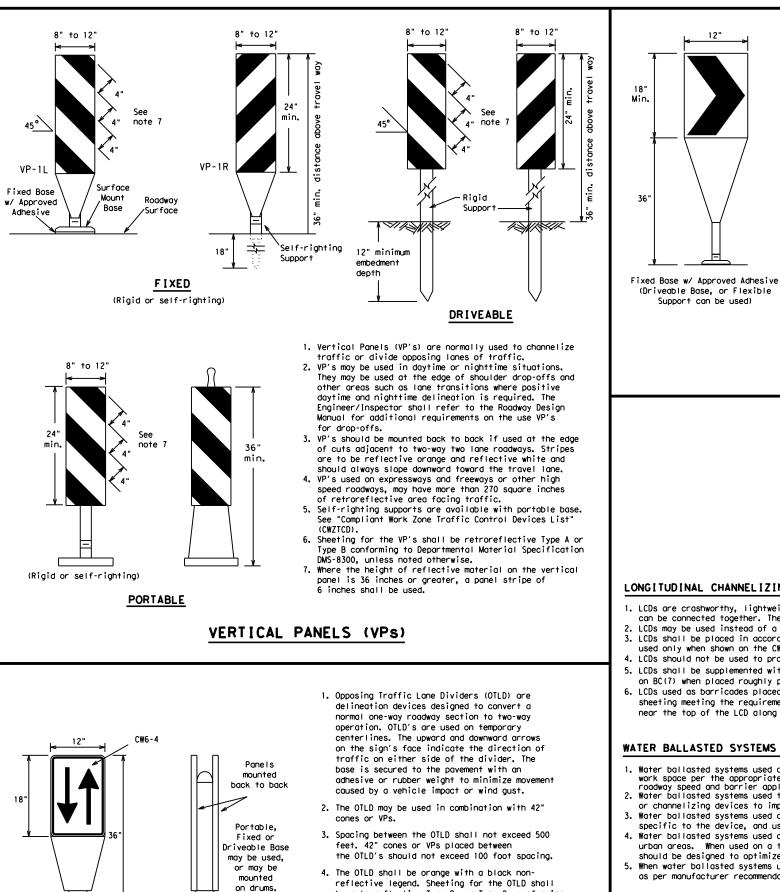
12" x 24" Vertical Panel mount with diagonals sloping down towards travel way

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

SIGNS, CHEVRONS, AND VERTICAL PANELS MOUNTED ON PLASTIC DRUMS

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

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Texas Departmen	nt of Tra	nsp	ortation		Traffic Safety Division tandard				
	BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES								
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be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300.

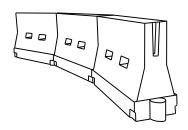
unless noted otherwise. The legend shall meet

the requirements of DMS-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

- 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 out side of a sharp curve or turn, or on the far side of an intersection. They shall be in line with and at right angles to approaching traffic. Spacing should be such that the motorist always has three in view, until the change in alignment eliminates its need.
- 4. To be effective, the chevron should be visible for at least 500 feet.
- 5. Chevrons shall be orange with a black nonreflective legend. Sheeting for the chevron shall be retroreflective Type B_{FL} or Type C_{FL} conforming to Departmental Material Specification DMS-8300, unless noted otherwise. The legend shall meet the requirements of DMS-8300.
- 6. For Long Term Stationary use on tapers or transitions on freeways and divided highways, self-righting chevrons may be used to supplement plastic drums but not to replace plastic drums.

CHEVRONS



LONGITUDINAL CHANNELIZING DEVICES (LCD)

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

WATER BALLASTED SYSTEMS USED AS BARRIERS

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

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

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

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.
- 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	D	Minimur esirab er Len X X	le	Suggested Maximum Spacing of Channelizing Devices			
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	2	150'	1651	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 <i>'</i>	100'		
55	L=WS	550'	605′	660 <i>'</i>	55 <i>'</i>	110′		
60	L - 11 S	600 <i>'</i>	660'	720'	60 <i>'</i>	120′		
65		650 <i>'</i>	715′	780′	65 <i>1</i>	130'		
70		700′	770′	840'	70′	140'		
75		750'	825′	900'	75 <i>'</i>	150′		
80		800'	880′	960'	80 <i>'</i>	160′		

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

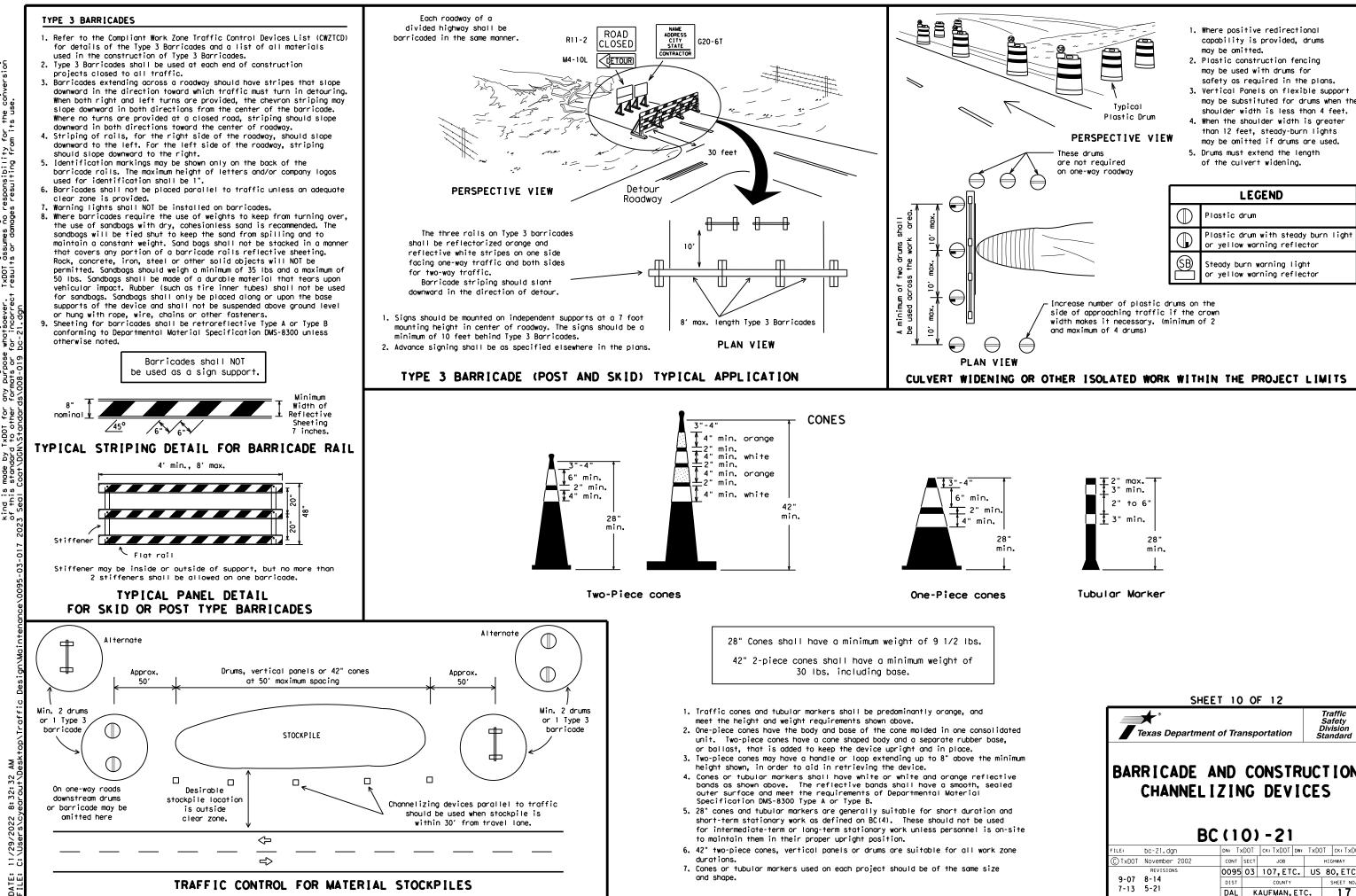
XX Taper lengths have been rounded off.

S=Posted Speed (MPH)

L=Length of Taper (FT.) W=Width of Offset (FT.)

SHEET 9 OF 12		
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BARRICADE AND CONSTR CHANNELIZING DEVI		I ON
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WORK ZONE PAVEMENT MARKINGS

GENERAL

- The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.
- 2. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- 3. Additional supplemental pavement marking details may be found in the plans or specifications.
- 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.
- 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 $\mathsf{BC}(\mathsf{12})$.
- All raised pavement markers used for work zone markings shall meet the requirements of Item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

PREFABRICATED PAVEMENT MARKINGS

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

MAINTAINING WORK ZONE PAVEMENT MARKINGS

- The Contractor will be responsible for maintaining work zone pavement markings within the work limits.
- Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Form 599.
- 3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by automobile low-beam headlights at night, unless sight distance is restricted by roadway geometrics.
- 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

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

Temporary Flexible-Reflective Roadway Marker Tabs



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

- Temporary flexible-reflective roadway marker tabs used as guiden shall meet the requirements of DMS-8242.
- Tabs detailed on this sheet are to be inspected and accepted by Engineer or designated representative. Sampling and testing is m normally required, however at the option of the Engineer, either or "B" below may be imposed to assure quality before placement or roadway.
 - A. Select five (5) or more tabs at random from each lot or sh and submit to the Construction Division, Materials and Pav Section to determine specification compliance.
 - B. Select five (5) tabs and perform the following test. Affix (5) tabs at 24 inch intervals on an asphaltic pavement in straight line. Using a medium size passenger vehicle or pir run over the markers with the front and rear tires at a sp of 35 to 40 miles per hour, four (4) times in each direction more than one (1) out of the five (5) reflective surfaces 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. Standard Sheet TCP(7-1) for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARK

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

Guidemarks shall be designated as:

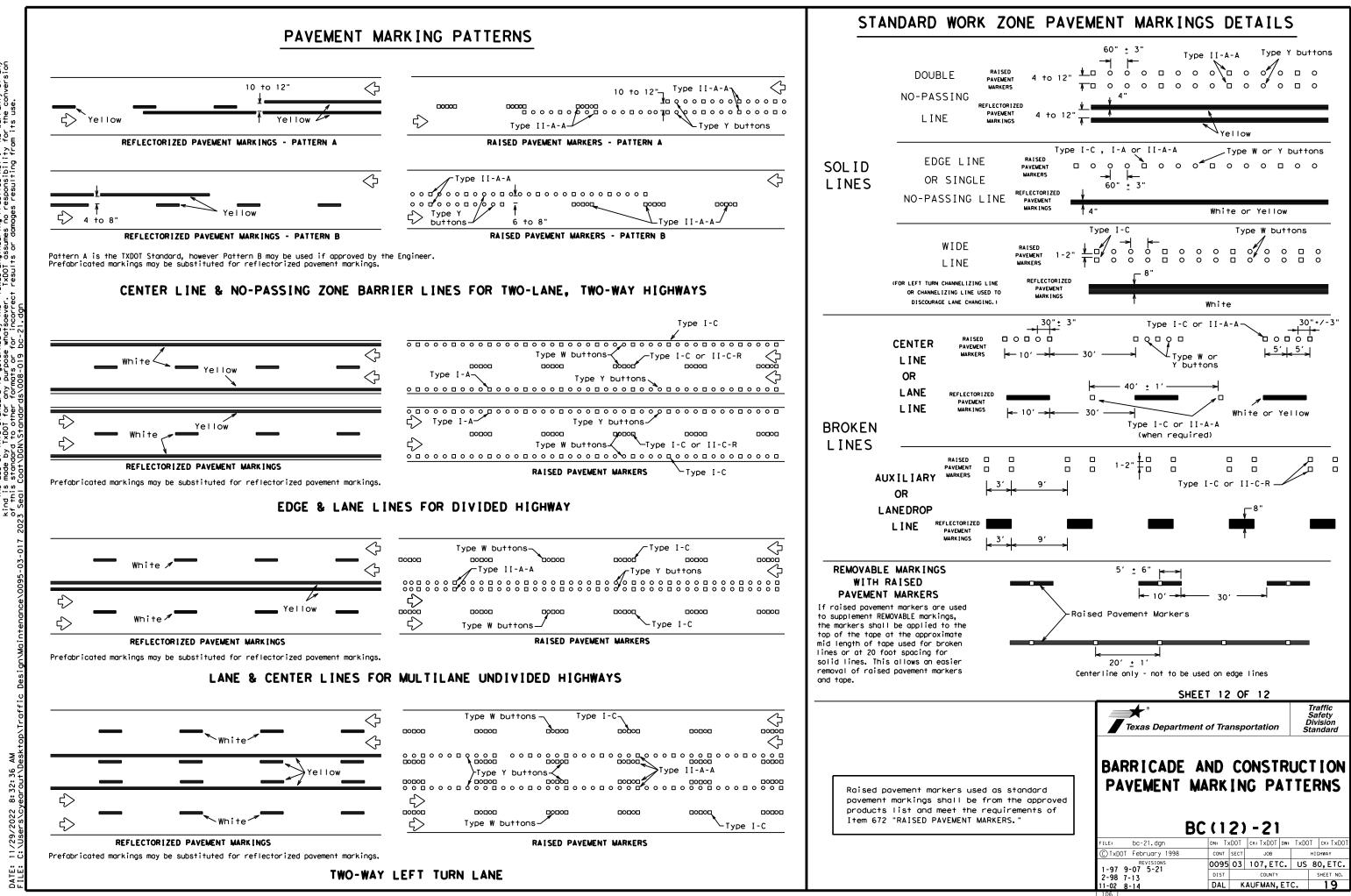
YELLOW - (two amber reflective surfaces with yellow body). WHITE - (one silver reflective surface with white body).

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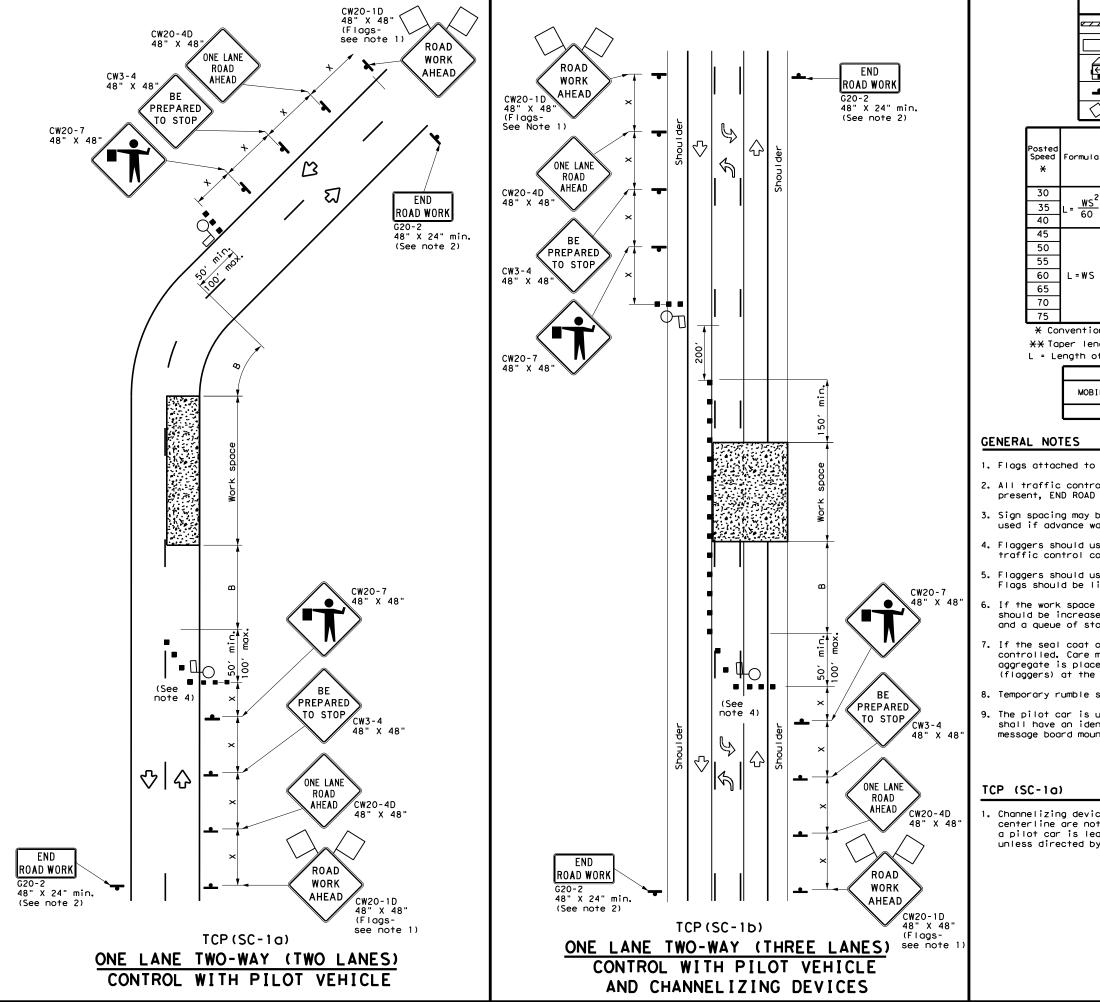
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	DEPARTMENTAL MATERIAL SPECIFICAT	
	ENT MARKERS (REFLECTORIZED)	DMS-4200
		DMS-4300
w	AND ADHESIVES INOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6100 DMS-6130
∽ ∣⊢—	NENT PREFABRICATED PAVEMENT MARKINGS	DMS-8130
	RARY REMOVABLE, PREFABRICATED	-
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	RARY FLEXIBLE, REFLECTIVE Ay marker tabs	DMS-8242
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a	т	D	dinimum esirabl er Leng X X	le	Suggested Spacir Channel Devi	ng of lizing	ng Spacing		Suggested Longitudinal Buffer Space	Stopping Sight Distance
	10 Offs		11' Offset	12' Offset	On a Taper	On a Tangent		Distance "X"	"B"	
2	150	0'	1651	180'	30′	60 <i>'</i>	T	120'	90′	200'
-	20	5'	225'	245'	35′	70'		160′	120′	250 <i>'</i>
	265	5'	295′	320'	40′	80′		240′	155′	305′
	450	0'	495′	540'	45′	90'	T	320′	195′	360′
	500), C	550'	600 <i>'</i>	50 <i>'</i>	100'		400′	240′	425′
	550	0'	605′	660 <i>'</i>	55′	110'		500 <i>'</i>	295′	495′
5	600	о <u>′</u>	660'	720'	60′	120′		600 <i>'</i>	350′	570'
	650	٥٢	715′	780'	65′	130'		700′	410′	645′
	700	<u>۲</u>	770'	840'	70'	140′		800′	475′	730'
	750	<u>٬</u>	825′	900′	75'	150′		900′	540′	820 <i>'</i>

* Conventional Roads Only

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<u>WS</u> 60

L=WS

XX Taper lengths have been rounded off.

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

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

1. Flags attached to signs where shown are REQUIRED.

2. All traffic control devices illustrated are REQUIRED, except: if project signing is present, END ROAD WORK (G20-2) sign is optional with approval by the Engineer.

3. Sign spacing may be increased or an additional ROAD WORK AHEAD (CW20-1D) sign may be used if advance warning ahead of the flagger sign is less than 1500 feet.

Flaggers should use two-way radios or other methods of communication at all times for traffic control coordination.

5. Flaggers should use 24" STOP (CW20-8) / SLOW (CW20-8aT) paddles to control traffic. Flags should be limited to emergency situations.

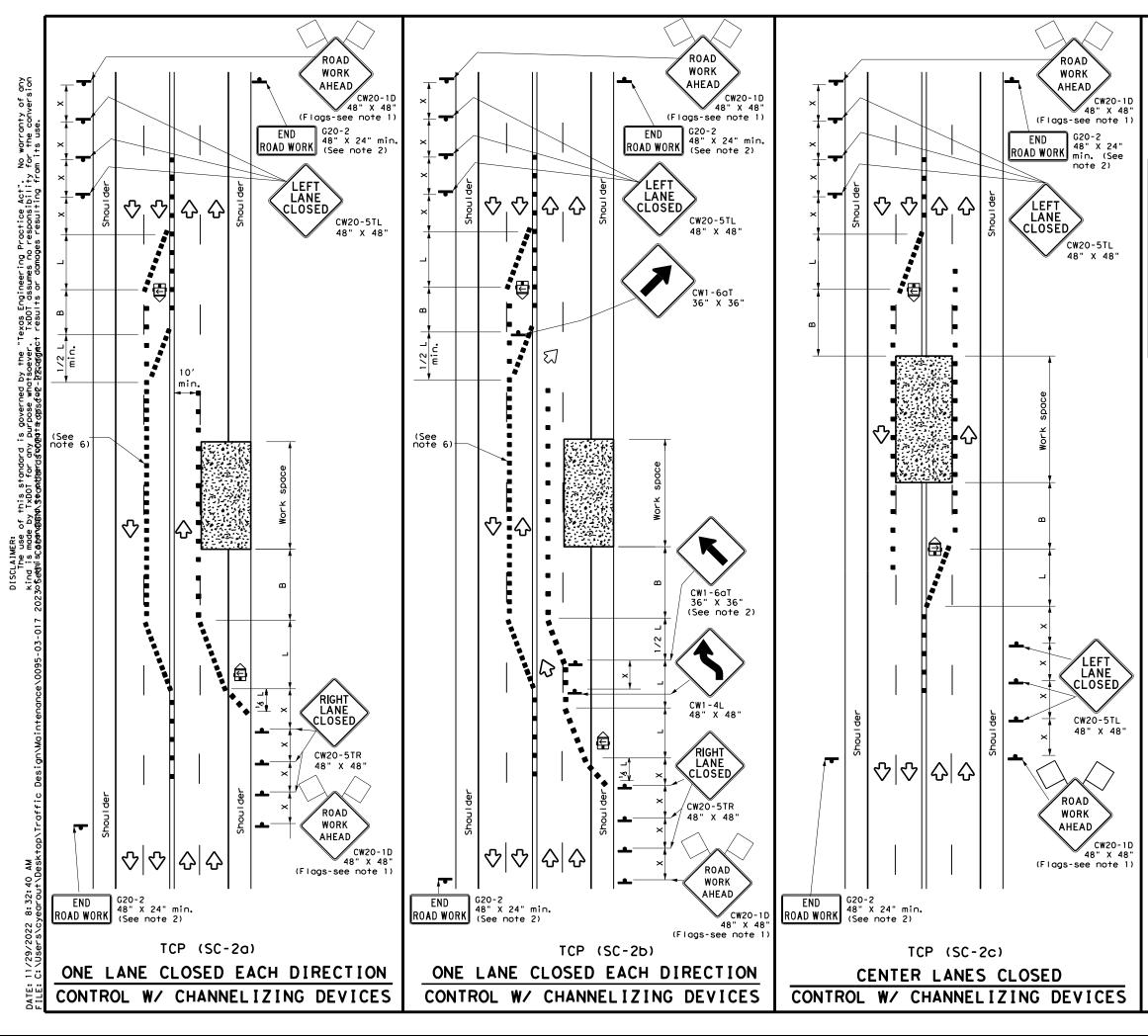
6. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).

7. If the seal coat operation crosses intersections, traffic in these areas must be controlled. Care must be taken to prevent vehicles from crossing the asphalt before the aggregate is placed. This may require positioning additional traffic control personnel (flaggers) at the intersection.

8. Temporary rumble strips are not required on seal coat operations.

9. The pilot car is used to guide vehicles through traffic control zone. The pilot car shall have an identification name displayed and PILOT CAR, FOLLOW ME (G20-4) sign or message board mounted in a conspicuous position on rear.

	Sł	IEET 1	OF 8					
ces on the	Texas Departme	nt of Trai	nsportatio		Traffic Safety Division Standard			
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	LEGEND								
~~~~~	Type 3 Barricade		Channelizing Devices						
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)						
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)						
4	Sign	$\checkmark$	Traffic Flow						
$\Diamond$	Flag	٩	Flagger						

Posted Speed	Formula	Minimum Desirable Taper Lengths X X			Spacin Channe		Minimum Sign Spacing Distance	Suggested Longitudinal Buffer Space
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	"X"	"В"
30	<u>ws</u> ²	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'	1551
45		450'	495′	540'	45 <i>'</i>	90'	320'	1951
50		500'	550'	600′	50 <i>'</i>	100'	400′	240'
55		550'	605′	660 <i>'</i>	55 <i>'</i>	110'	500 <i>'</i>	295′
60	L=WS	600 <i>'</i>	660 <i>'</i>	720′	60 <i>'</i>	120'	600′	350′
65		650′	715′	780′	65 <i>'</i>	130'	700'	410′
70		700′	770'	840′	70′	140'	800′	475′
75		750′	825′	900'	75′	150'	900'	540′

* Conventional Roads Only

XX Taper lengths have been rounded off.

L = Length of Taper (FT) W = Width of Offset (FT)

S = Posted Speed (MPH)

	TYPICAL USAGE							
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY				
	4	1						

### GENERAL NOTES

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

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

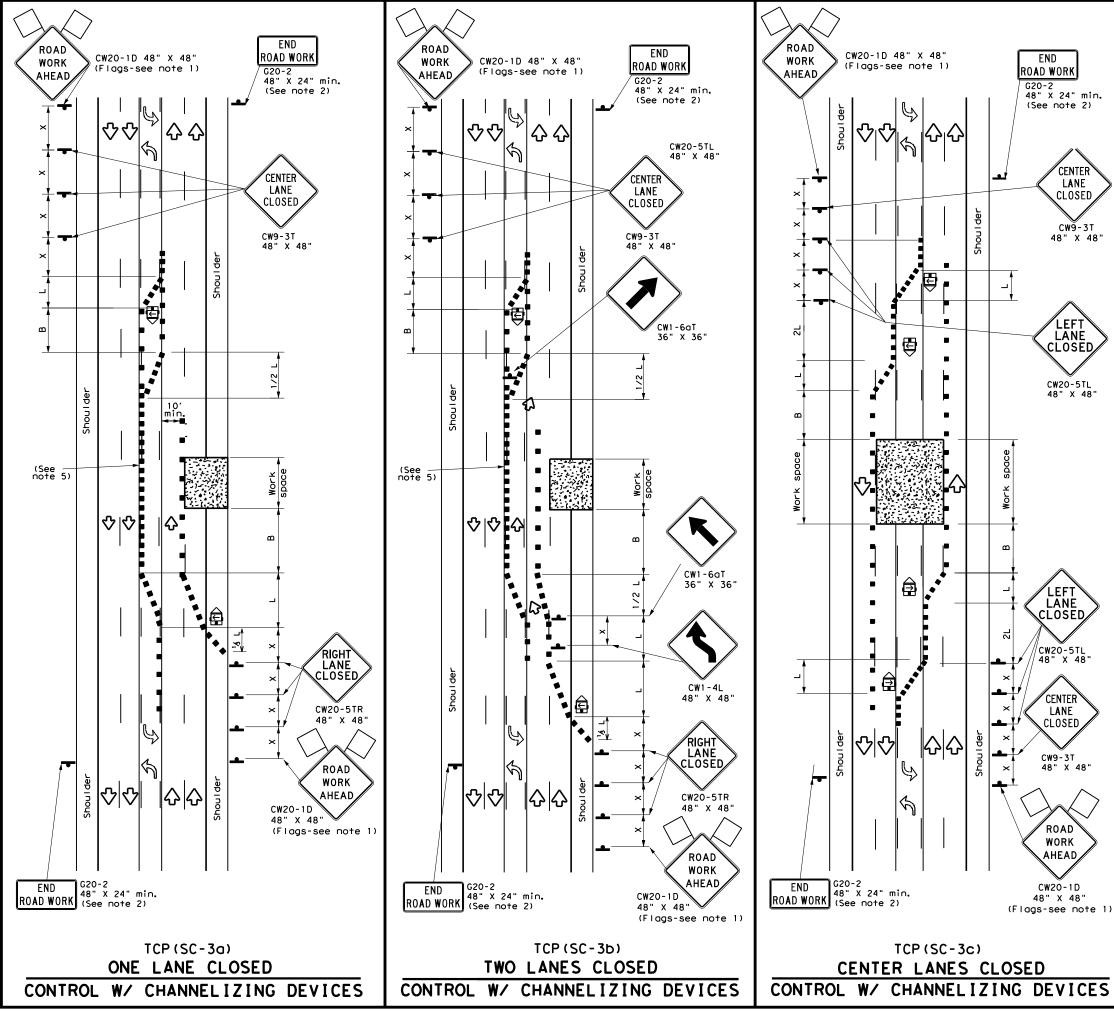
6. Channelizing devices which separate two-way traffic shall be spaced on tapers at:

a.) 20 feet;

b.) 15 feet when posted speeds are 35 mph or slower; or c.) at 1/2(S) for tangent sections. This tighter device spacing is intended for the areas of conflicting markings, not the entire work zone.

SHEET 2 OF 8							
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	osted Speed Formu		Minimum Desirable Taper Lengths Formula X X			le	Suggested Maximu Spacing of Channelizing Devices			of zing	Minimum Sign Suggest Spacing Longitud		inal	
×				10' Offset	11' Offset	12' Offset		n a oper	a On a		Distance "X"	"B"		
30	)	L = <u>W</u>	.2	150'	1651	180′		30'		60 <i>'</i>	120'	90′		
35	5	$L = \frac{WS}{60}$	5	205'	225'	245′		35'		70'	160′	120	,	
40	- -	00	,	265'	295′	320'		40′		80'	240′	155	,	
45	-			450 <i>'</i>	495′	540'		45′		90'	320′	195	,	
50	(			500'	550ʻ	600 <i>'</i>		50'		100'	400′	240	'	
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60		L = W S	5	600 <i>'</i>	660 <i>'</i>	720′		60'		120′	600 <i>'</i>	350	,	
65	5			650'	715′	780'		65′		130'	700′	410	,	
70				700 <i>'</i>	770'	840 <i>'</i>		70'		140′	800 <i>'</i>	475	,	
75	75			750'	825′	900 <i>'</i>		75'		150′	900′	540	,	

* Conventional Roads Only

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

S = Posted Speed (MPH)

		TYPICAL L	JSAGE	
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	<b>√</b>	1		

### GENERAL NOTES

1. Flags attached to signs where shown are REQUIRED.

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

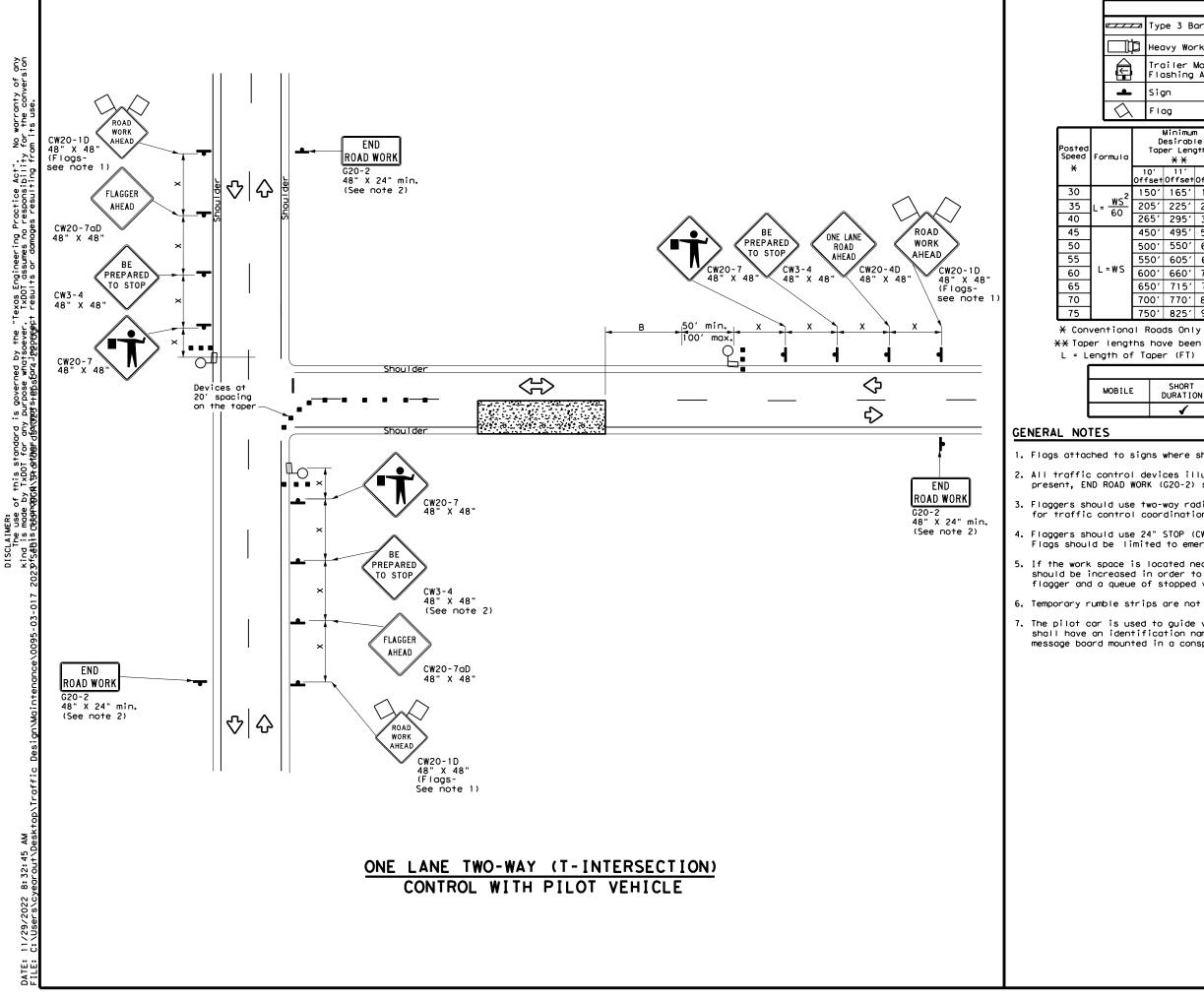
### TCP (SC-3a) and (SC-3b)

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

b.) 15 feet when posted speeds are 35 mph or slower; or c.) at 1/2(S) for tangent sections. This tighter device spacing is intended for the areas of

conflicting markings, not the entire work zone.

SHEET 3 OF 8									
Texas Department	of Trans	portatior	.   1	Traffic Safety Division Itandard					
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LEGEND										]
Type 3 Barricade  Channelizing Devices										
ľ	Heavy Work Vehicle							ruck Mour ttenuator		
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$\overline{\lambda}$		FIC	g			٩	F	lagger		
a	Desirable Spac Taper Lengths Channe		Spaci Channe Dev	ices Distance Buffer Space		Suggested Longitudinal Buffer Space	Stopping Sight Distance			
		0' 'set	11' Offset	12' Offset	On a Taper	0n a Tangen	t	"x"	"B"	
2	15	50'	165'	180'	30′	60′		120'	90'	200′
5	20	)5 <i>'</i>	225′	245'	35'	70'		160′	120'	250'
'	26	65 <i>1</i>	295′	320'	40'	80′		240'	155'	305′
	45	50'	495′	540'	45′	90′		320′	195'	360'
	50	)0 <i>'</i>	550′	600'	50'	100'		400′	240'	425′
	55	50'	605′	660 <i>'</i>	55′	110'		500 <i>'</i>	295′	495′
5	60	)0'	660′	720′	60′	120'		600 <i>'</i>	350′	570'
	65	50'	715′	780′	65′	130'		700'	410′	645′
	70	)0'	770'	840 <i>′</i>	70'	140'		800 <i>'</i>	475′	730′
	75	501	825′	900′	75′	150'		900′	540'	820′

XX Taper lengths have been rounded off.

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

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

1. Flags attached to signs where shown are REQUIRED.

2. All traffic control devices illustrated are REQUIRED, except: if project signing is present, END ROAD WORK (G20-2) sign is optional with approval by the Engineer.

3. Flaggers should use two-way radios or other methods of communication at all times for traffic control coordination.

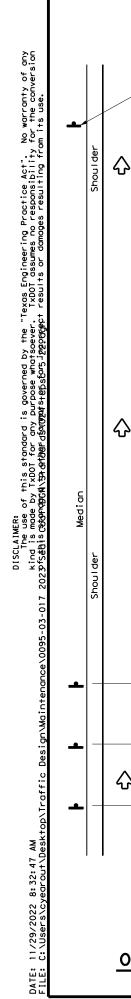
4. Flaggers should use 24" STOP (CW20-8) / SLOW (CW20-8aT) paddles to control traffic. Flags should be limited to emergency situations.

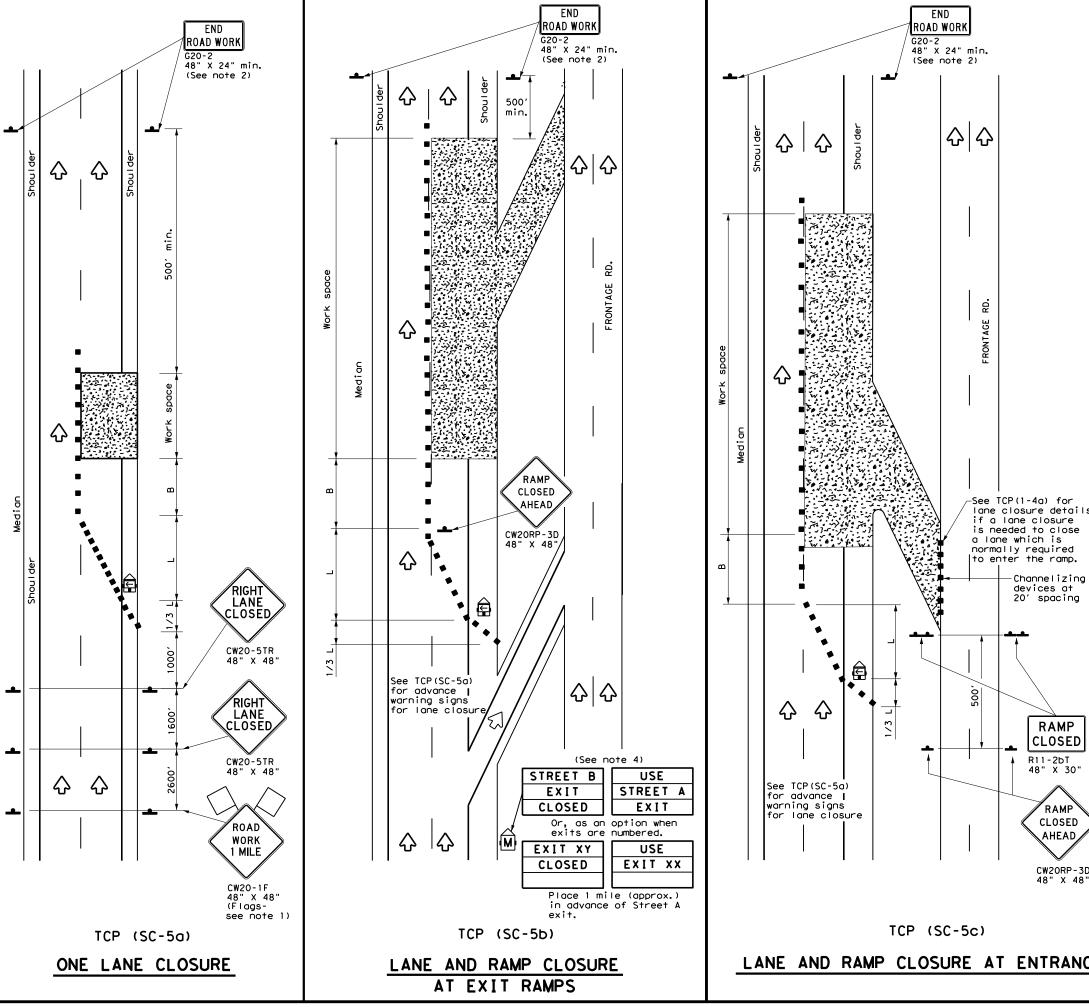
5. If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).

6. Temporary rumble strips are not required on seal coat operations.

7. The pilot car is used to guide vehicles through traffic control zone. The pilot car shall have an identification name displayed and PILOT CAR, FOLLOW ME (G20-4) sign or message board mounted in a conspicuous position on rear.

SHEET 4 OF 8							
Traffic Safety Texas Department of Transportation Standard							
SEAL COA NEAR I	TRAFFIC CONTROL PLAN SEAL COAT OPERATIONS NEAR INTERSECTION TCP (SC-4)-22						
FILE: tcpsc-4-22,dgn	DN:		CK:	DW:	CK:		
CTxDOT October 2022	CONT	SECT	JOB		HIGHWAY		
REVISIONS	0095	03	107,ET	c. US	80,ETC.		
4-21 10-22	DIST		COUNTY		SHEET NO.		
10-22	DAL	ĸ	AUFMAN,	ETC.	23		
220							





LEGEND							
	Type 3 Barricade		Channelizing Devices				
□¤	Heavy Work Vehicle	K	Truck Mounted Attenuator (TMA)				
Ê	Trailer Mounted Flashing Arrow Board	<b>Š</b>	Portable Changeable Message Sign (PCMS)				
-	Sign	$\checkmark$	Traffic Flow				
$\overline{\Delta}$	Flag	ЦO	Flagger				

Posted Speed <del>X</del>	Formula	D Tap	Minimur esirab er Lena <del>X X</del>	le gths	Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing Distance	Suggested Longitudina। Buffer Space "B"
Â		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent	"x"	В
30	<u>ws²</u>	150'	1651	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'	1551
45		450'	495′	540'	45′	90′	320′	1951
50		500'	550'	600′	50 <i>'</i>	100′	400′	240′
55		550'	605′	660′	55 <i>'</i>	110′	500′	295′
60	L=WS	600 <i>'</i>	660'	720'	60 <i>'</i>	120′	600′	350′
65		650′	715′	780′	65 <i>'</i>	130'	700'	410′
70		700'	770′	840'	70′	140′	800′	475′
75		750'	825′	900′	75′	150′	900′	540'

X Conventional Roads Only

XX Taper lengths have been rounded off.

L = Length of Taper (FT) W = Width of Offset (FT)

S = Posted Speed (MPH)

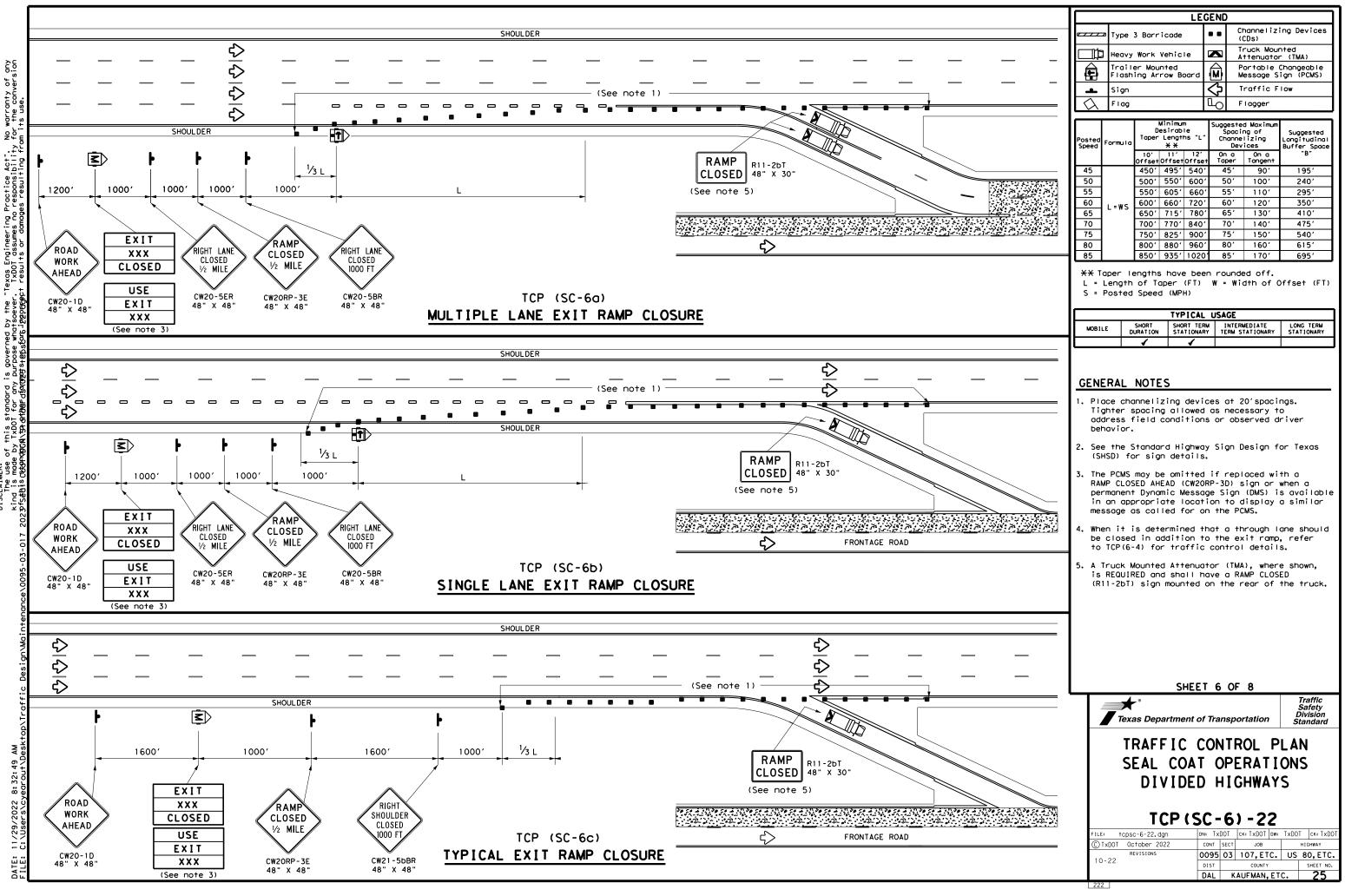
TYPICAL USAGE						
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY		
		-				

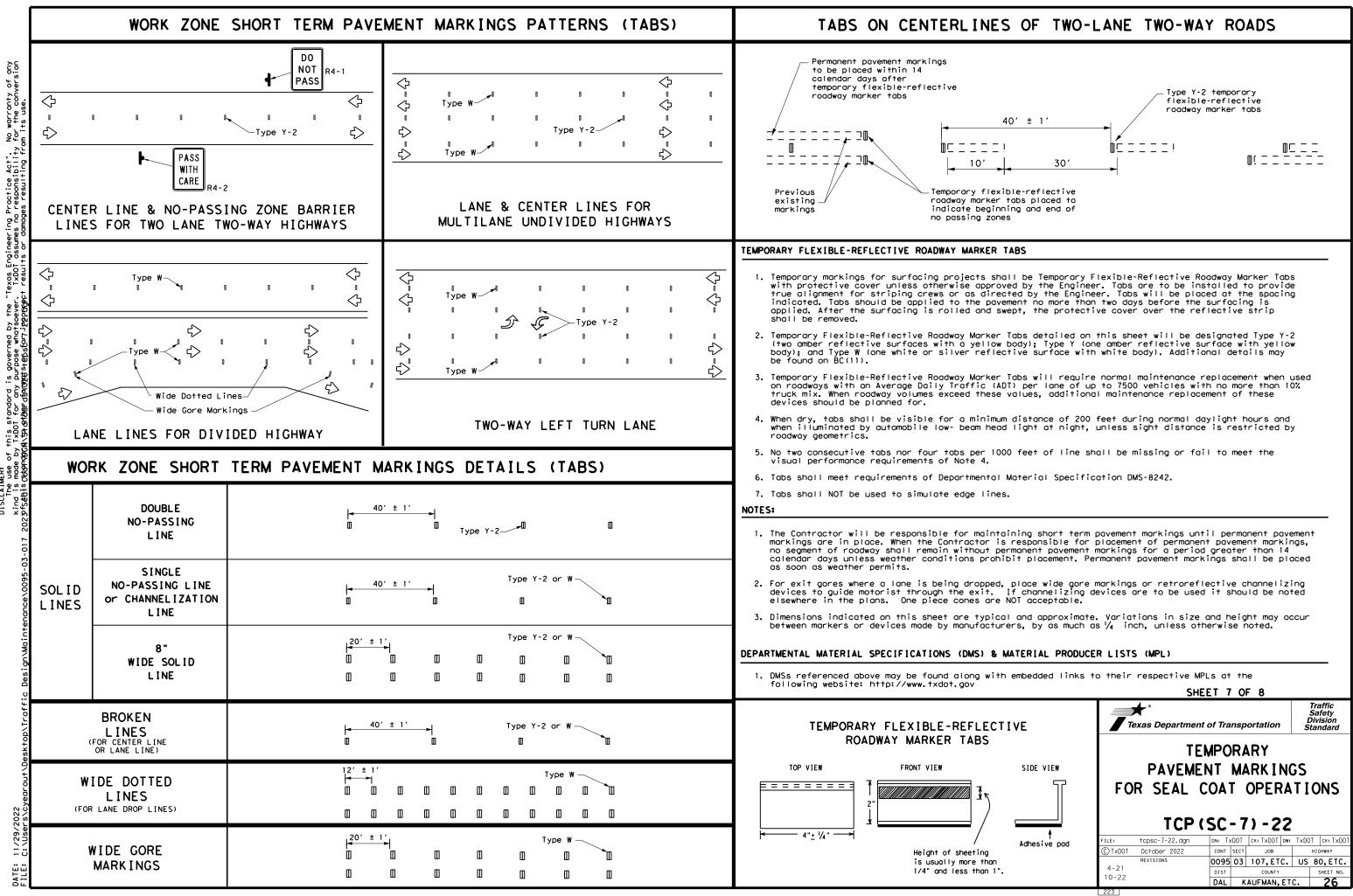
## GENERAL NOTES

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

- 2. All traffic control devices illustrated are REQUIRED, except: - If project signing is present, END ROAD WORK (G20-2) sign is optional with approval by the Engineer. - USE NEXT RAMP (CW25-1T) sign is optional with approval by the Engineer.
- 3. Channelizing devices used to close lanes may be supplemented with the Chevron Alignment Sign placed on every other channelizing device. Chevrons may be attached to plastic drums as per BC Standards.
- 4. The PCMS may be omitted if: it is replaced with a RAMP CLOSED AHEAD (CW20RP-3D) sign or when a permanent Dynamic Message Sign (DMS) is available in the appropriate location to display a similar message as called for on the PCMS.
- 5. Temporary rumble strips are not required on seal coat operations.

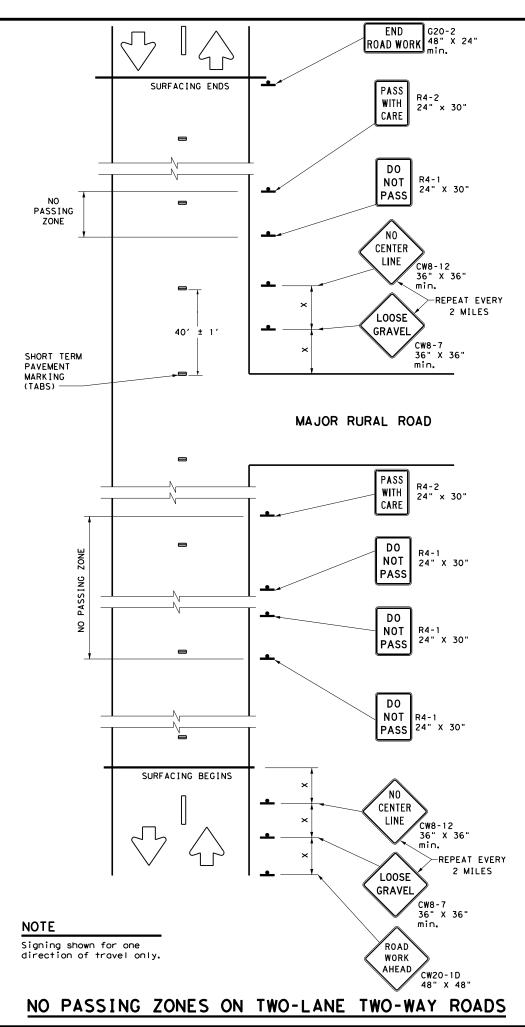
USE NEXT RAMP CW25-1T 48" x 4 (See no	8"	
	••••••••••••••••••••••••••••••••••••••	Traffic
	Texas Department of Transportation	Safety Division Standard
/		
/	TRAFFIC CONTROL P	LAN
D	SEAL COAT OPERATI	ONS
D		ONS
	SEAL COAT OPERATI DIVIDED HIGHWAY	ONS S
) "	SEAL COAT OPERATI	ONS S
)	SEAL COAT OPERATI DIVIDED HIGHWAY	ONS S
	SEAL COAT OPERATI DIVIDED HIGHWAY TCP (SC-5) - 22	
·	SEAL COAT OPERATI           DIVIDED HIGHWAY           TCP (SC-5) - 22           FILE:         tcpsc-5-22, dgn           ©TxDOT         October 2022           CONT         SECT           REVISIONS         0095           0095         03	ONS S
CE RAMPS	SEAL COAT OPERATI DIVIDED HIGHWAY TCP (SC-5) - 22	ONS 'S US US 80, ETC. SHEET NO.





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		SHE	ET 7	0	F 8		
TIVE		★* Texas Department	of Tra	nsp	ortation		Traffic Safety Division Standard
SIDE VIEW		TE PAVEME	MPO				
			-	-	-		
ר	I FC	OR SEAL C	COAT	Γ	OPER	RATI	ONS
		TCP (	sr.	- 7	') - <b>2</b>	2	
Adhesive pad	FILE:	tcpsc-7-22.dgn	-	DOT	ск: TxDOT	DW: T×D	DT CK: TXDOT
	© TxDOT		CONT	SECT	JOB		HIGHWAY
1	4 1	REVISIONS	0095	03	107,ET	c. US	80,ETC.
•.	4-21 10-22		DIST		COUNTY		SHEET NO.
	10-22		DAL	К	AUFMAN,	ETC.	26
	223						



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

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

## NO CENTER LINE (CW8-12) SIGN

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

## LOOSE GRAVEL (CW8-7) SIGN

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

## COORDINATION OF SIGN LOCATIONS

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

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

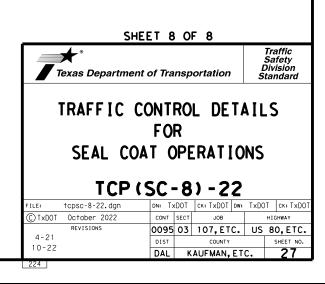
Posted Speed <del>X</del>	Minimum Sign Spacing Distance "X"
30	120'
35	160'
40	240'
45	320'
50	400′
55	500 <i>ʻ</i>
60	600'
65	700′
70	800 <i>'</i>
75	900′
	al Danda On

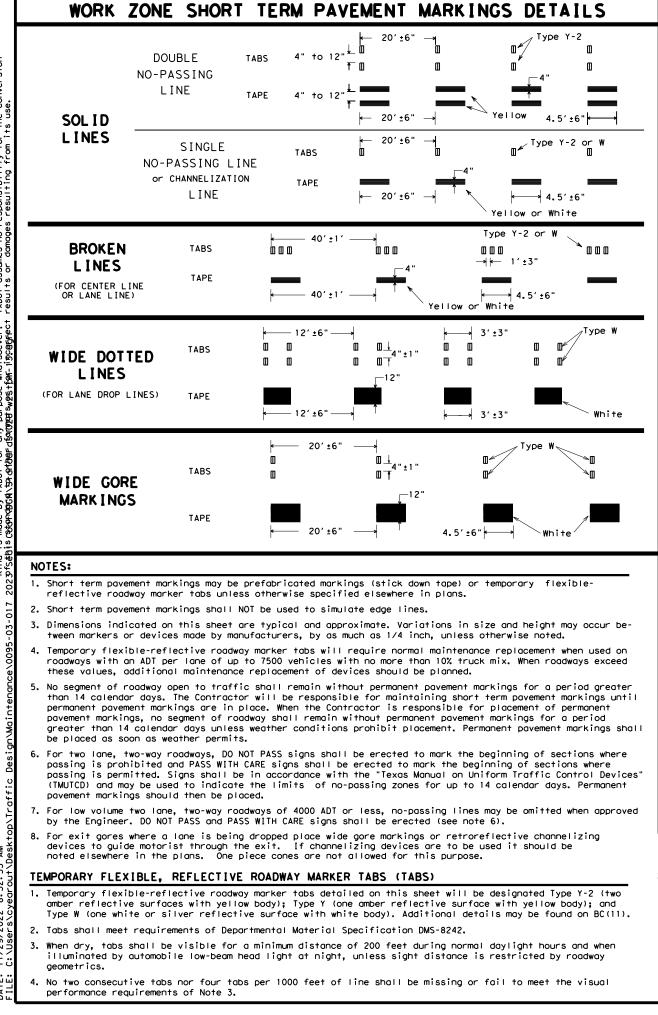
* Conventional Roads Only

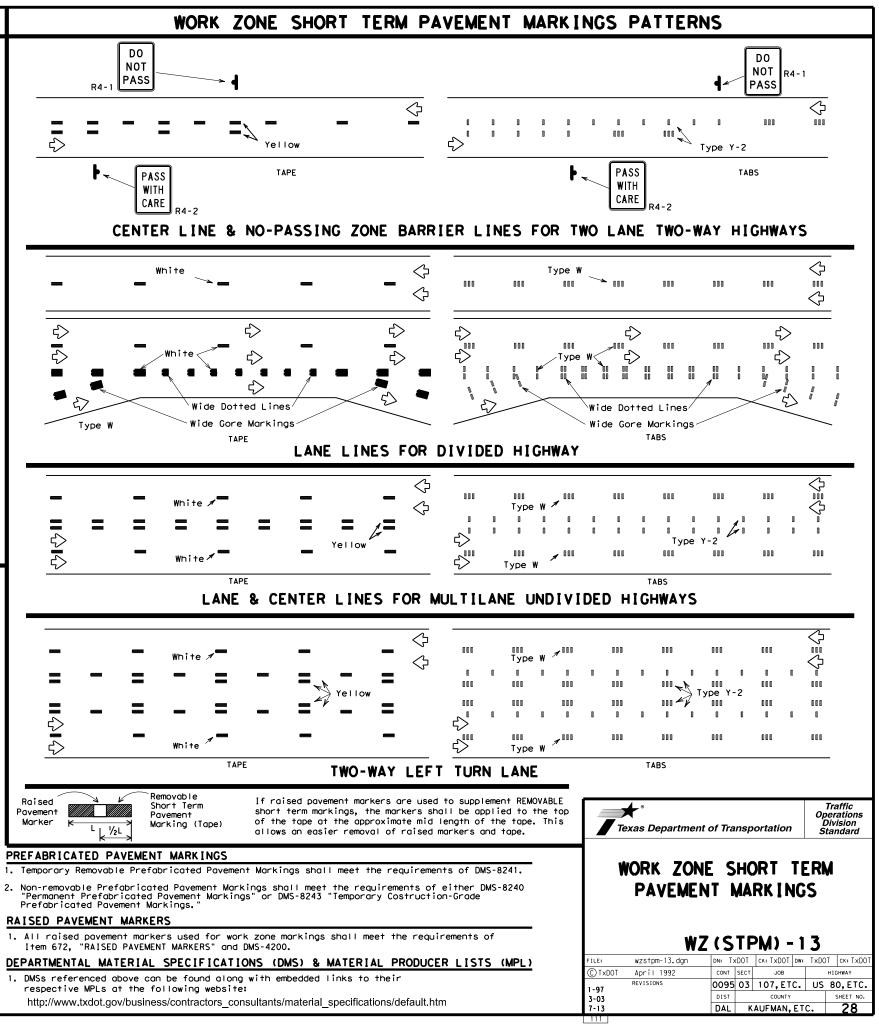
		TYPICAL	USAGE	
MOBILE	SHORT DURATION		INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
	1	1		

## GENERAL NOTES

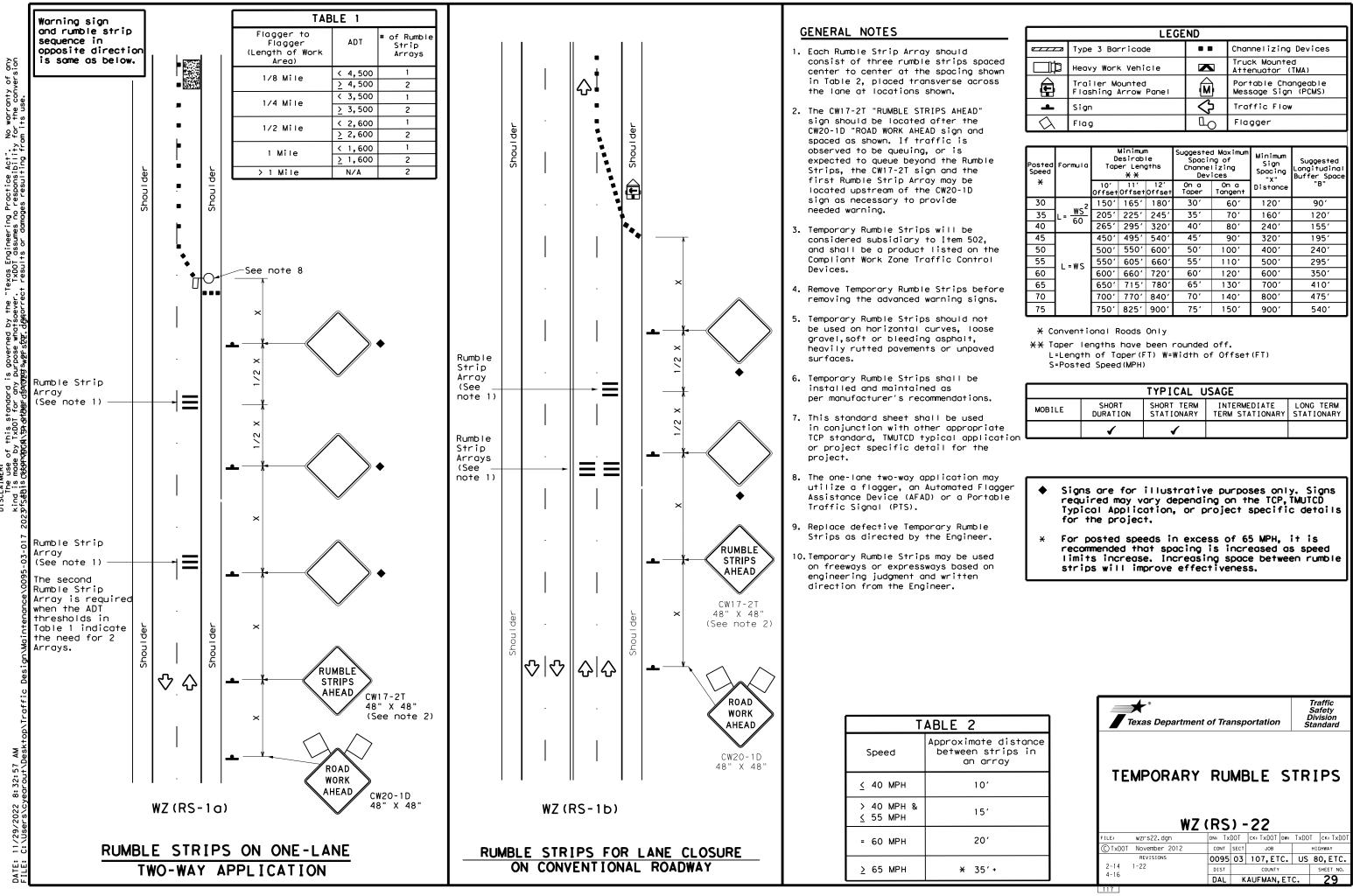
- Surfacing operations that cover or obliterate 1. existing pavement markings must first have the passing zones clearly marked with tabs as well as having any of the traffic control devices detailed on this sheet furnished and erected as directed by the Engineer.
- The devices shown on this sheet are to be used to 2. supplement those required by the BC Standards or others required elsewhere in the plans.
- 3. Signs shall be erected as detailed on the BC Standards or the Compliant Work Zone Traffic Control Devices List (CWZTCD) on supports approved for Short Duration / Short Term Stationary Work Zone Sign Supports.
- When surfacing operations take place on divided 4. highways, freeways or expressways, the size of diamond shaped construction warning signs shall be 48" x 48".
- Signs on divided highways, freeways and expressways 5. should be placed on both right and left sides of the roadway based on roadway conditions as directed by the Engineer.







- 1. DMSs referenced above can be found along with embedded links to their

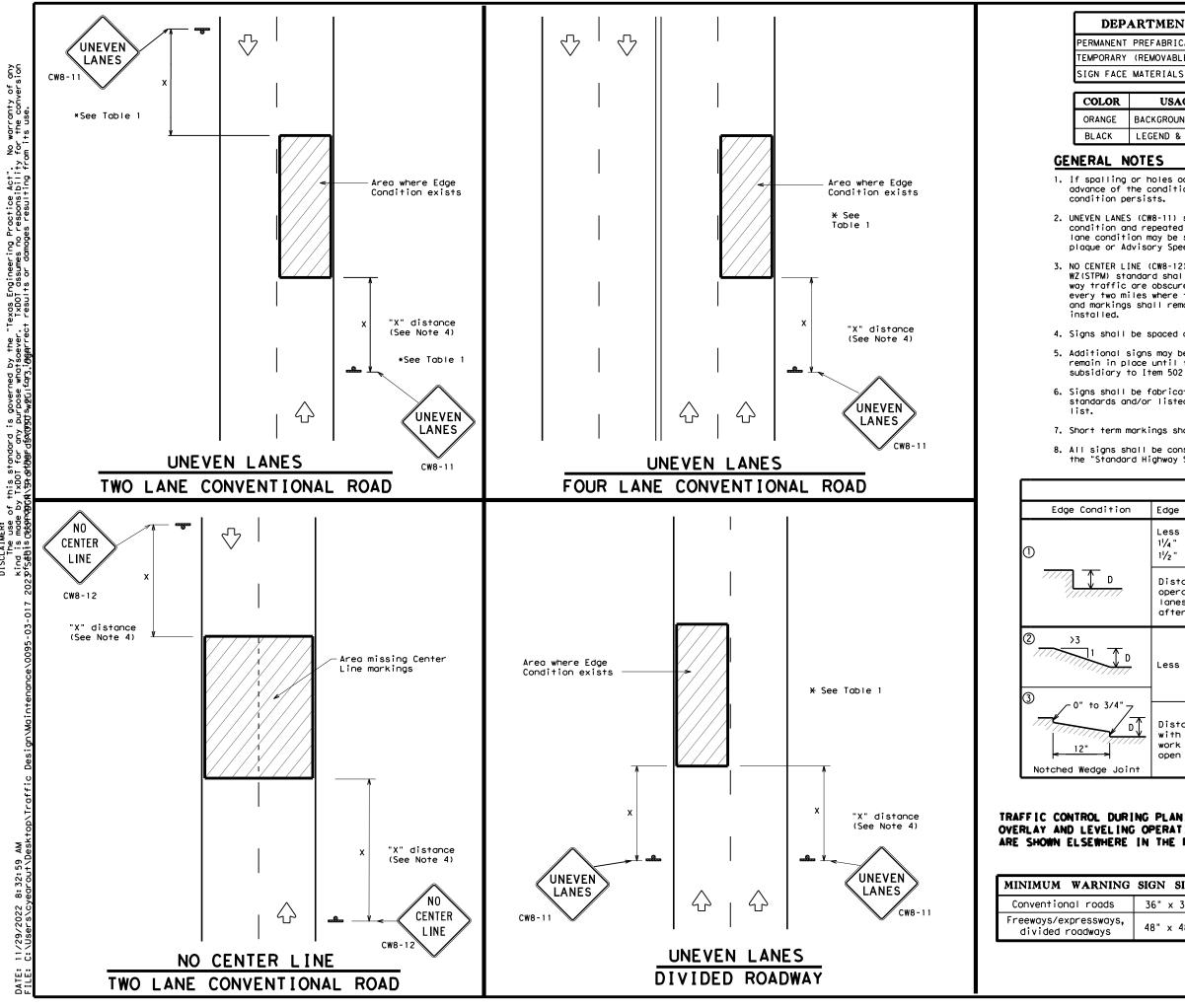


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	LEGE	ND	
	Type 3 Barricade		Channelizing Devices
□¢	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
Ð	Trailer Mounted Flashing Arrow Panel		Portable Changeable Message Sign (PCMS)
4	Sign	$\Diamond$	Traffic Flow
$\bigtriangleup$	Flag	LO	Flagger

Speed	Formula	D	esirab er Len X X	le	Spacir Channe		Minimum Sign Spacing "X"	Suggested Longitudinal Buffer Space		
*		10' 11' 12' On a On a OffsetOffsetOffset Taper Tangent		Distance	"В"					
30	ws ²	150'	1651	180' 30' 60'		60 <i>'</i>	120'	90'		
35	$L = \frac{WS}{60}$	205'	225'	245'	35′	70′	160'	120′		
40	60	265'	295′	320'	40′	80 <i>'</i>	240'	155′		
45		450 <i>'</i>	495′	540'	45′	90 <i>'</i>	320'	195'		
50		500'	550'	600′	50 <i>'</i>	100'	400'	240'		
55	L=WS	550'	605′	660 <i>'</i>	55 <i>'</i>	110′	500 <i>ʻ</i>	295′		
60	L - 11 S	600'	660'	720'	60 <i>'</i>	120'	600′	350′		
65		650′	715′	780′	65′	130′	700′	410′		
70		700'	770'	840'	70'	140′	800′	475′		
75		750′	825′	900′	75'	150'	900'	540′		

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



## DEPARTMENTAL MATERIAL SPECIFICATIONS

DMS-8240

DMS-8300

PERMANENT PREFABRICATED PAVEMENT MARKINGS TEMPORARY (REMOVABLE) PREFABRICATED PAVEMENT MARKINGS DMS-8241

Ł	USAGE	SHEETING MATERIAL
	BACKGROUND	TYPE B _{FL} OR TYPE C _{FL} SHEETING
	LEGEND & BORDERS	ACRYLIC NON-REFLECTIVE SHEETING

1. If spalling or holes occur, ROUGH ROAD (CW8-8) signs should be placed in advance of the condition and be repeated every two miles where the

 UNEVEN LANES (CW8-11) signs shall be installed in advance of the condition and repeated every mile. Signs installed along the uneven lane condition may be supplemented with the NEXT XX MILES (CW7-3aP) plaque or Advisory Speed (CW13-1P) plaque.

3. NO CENTER LINE (CW8-12) signs and temporary pavement markings as per the WZ(STPM) standard shall be installed if yellow centerlines separating two way traffic are obscured or obliterated. Repeat NO CENTER LINE signs every two miles where the center line markings are not in place. The signs and markings shall remain in place until permanent pavement markings are

4. Signs shall be spaced at the distances recommended as per BC standards.

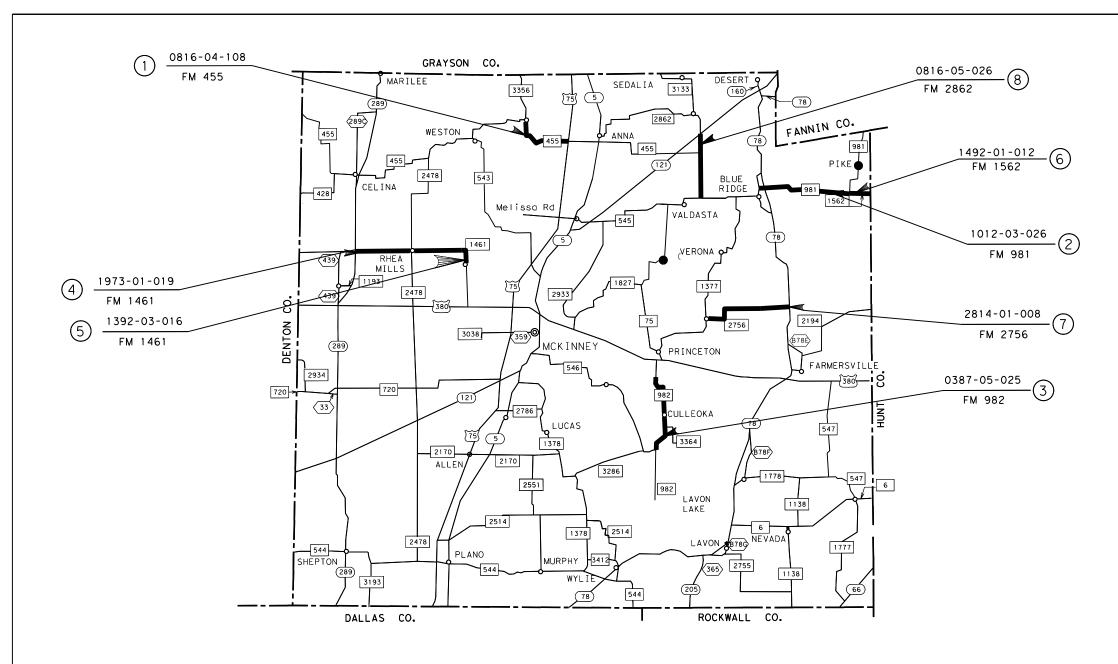
5. Additional signs may be required as directed by the Engineer. Signs shall remain in place until final surface is applied. Signs shall be considered subsidiary to Item 502 "BARRICADES, SIGNS AND TRAFFIC HANDLING."

6. Signs shall be fabricated and mounted on supports as shown on the BC standards and/or listed on the "Compliant Work Zone Traffic Control Devices"

7. Short term markings shall not be used to simulate edge lines.

All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition.

Less than or equal to:       1¼" (maximum-planing)         1½" (typical-overlay)       Sign: CW8-11         Distance "D" may be a maximum of 1 1/4 " for planing operations and 2" for overlay operations if uneven lanes with edge condition 1 are open to traffic after work operations cease.         Less than or equal to 3"       Sign: CW8-11         1       Distance "D" may be a maximum of 3" if uneven lanes with edge condition 2 or 3 are open to traffic after	
Less than or equal to:       1¼" (maximum-planing)         1¼" (maximum-planing)       Sign: CW8-11         1½" (typical-overlay)       Distance "D" may be a maximum of 1 1/4 " for planing operations and 2" for overlay operations if uneven lanes with edge condition 1 are open to traffic after work operations cease.         D       Less than or equal to 3"       Sign: CW8-11         D       Distance "D" may be a maximum of 3" if uneven lanes with edge condition 2 or 3 are open to traffic after	
11/4" (maximum-planing) 11/2" (typical-overlay)       Sign: CW8-11         Distance "D" may be a maximum of 1 1/4 " for planing operations and 2" for overlay operations if uneven lanes with edge condition 1 are open to traffic after work operations cease.         D       Less than or equal to 3"         Sign: CW8-11         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D	
operations and 2" for overlay operations if uneven lanes with edge condition 1 are open to traffic after work operations cease.         D         Less than or equal to 3"         Sign: CW8-11         D         D listance "D" may be a maximum of 3" if uneven lanes with edge condition 2 or 3 are open to traffic after	
Distance "D" may be a maximum of 3" if uneven lanes with edge condition 2 or 3 are open to traffic after	
with edge condition 2 or 3 are open to traffic after	
work operations cease. Uneven lanes should not be open to traffic when "D" is greater than 3". Noint	
URING PLANING, ING OPERATIONS RE IN THE PLANS.	ations sion
VG SIGN SIZE UNEVEN LANES	
^{s,} 48" × 48" <b>WZ (UL) - 1 3</b>	
FILE: WZUI-13.dgn DN: TXDOT CK: TXDOT DW: TXDOT C (C) TXDOT April 1992 CONT SECT JOB HIGH	
REVISIONS 0095 03 107, ETC. US 80	ск: TxDOT нway
	HWAY
8-95 2-98 7-13 DIST COUNTY SH	HWAY D, ETC. HEET NO.
	HWAY D,ETC.



	HIGHWAY				ROADWAY LIMITS									
REFERENCE NUMBER			C-S-J	FROM		ТО								
				DESCRIPTION	TRM	DESCRIPTION	TRM							
1	FM	455	Ø816-Ø4-1Ø8	FM 3356	614+0.501	US 75	618+0.130							
2	FM	981	1012-03-026	BS 78D	606+0.045	FM 1562	61Ø+1.288							
3	FM	982	0387-05-025	960' S OF MYRICK LANE	238+1.Ø88	FM 546	242+1.455							
4	FM	1461	1973-01-019	SH 289	586-0.492	CR 166	592+0.499							
5	FM	1461	1392-03-016	CR 166	592+0.499	EOM	592+1.501							
6	FM	1562	1492-01-012	FM 981	614+0.033	COLLIN COUNTY LINE	614+Ø.851							
7	FM	2756	2814-01-008	FM 1377	604-0.043	SH 78	608+0.925							
8	FM	2862	0816-05-026	SH 121	604+1.636	FM 545	608+1.296							
							SUBTOTAL							

		J.R J.R		GHES	
		Mur ) Texas	Departi	nent of Transp	ortation
				COUNTY SUMMAF	
				TION M	
	DESIGN DS	FED. RD. DIV. NO. 6		AL AID PROJECT NO. TITLE SHEET	HIGHWAY NO. US 80, ETC.
		STATE	DISTRICT	COUNTY	SHEET NO.
	CHECK JH CHECK	TEXAS CONTROL	DAL SECTION	KAUFMAN, ETC. Job	31
E	LHELK	0095	03	107,ETC.	

LE	)WY. NGTH MI)
З.	6Ø6
5.	253
4.	254
5.	927
1.	ØØ2
Ø.	818
4.	907
З.	571
29.	. 338

## 2022 COLLIN COUNTY SEAL COAT QUANTITY SUMMARY

						MEASURED	ROADWAY	SEAL COAT	INT. RAMPS,	TOTAL	ADT	AGG	ASPHALT	AGG	316-6454	316-6255	316-6434
						ROADWAY	WIDTHS	ROADWAY	CROSS OVER	AREA			RATE	RATE	ASPH (AC-15P,	AGGR (TY-PL	AGGR (TY-PB GR-4
REFERENCE NUMBER	Н	IWY.	C-S-J	FROM	то	LENGTHS		AREAS	AND GORES						AC-20-5TR, OR	GR-3LW)	OR TY-PL GR-4)
									AREA						AC-20XP)	SAC-B	SAC-B
						(FT)	(FT)	(SY)	(SY)	(SY)		(GR3 OR 4)	(GAL/SY)	(SY/CY)	(TON)	(CY)	(CY)
1	FM	455	0816-04-108	FM 3356	US 75	17082	31	58838	4495	63333	4435	3	0.42	110	110.92	576	
2	FM	981	1012-03-026	BS 78D	FM 1562	26625	25	73958	7489	81447	1453	3	0.42	110	142.65	740	
3	FM	982	0387-05-025	960' S OF MYRICK LANE	FM 546	22190	40	98622	9410	108032	7656	4	0.33	125	148.66		864
4	FM	1461	1973-01-019	SH 289	CR 166	16185	30	53950	9395	63345	9546	4	0.33	125	87.17		507
	1 1 1 1	1401	1575-01-015	511 205	CK 100	14459	24	38557		38557	5540	4	0.33	125	53.06		308
5	FM	1461	1392-03-016	CR 166	EOM	5005	25	13903	1920	15822	719	3	0.42	110	27.71	144	
6	FM	1562	1492-01-012	FM 981	COLLIN COUNTY LINE	5090	25	14139	442	14581	659	3	0.42	110	25.54	133	
7	FM	2756	2814-01-008	FM 1377	SH 78	25160	25	69889	5212	75101	771	3	0.42	110	131.53	683	
8	FM	2862	0816-05-026	SH 121	FM 545	18855	26	54470	8325	62795	1085	3	0.42	110	109.98	571	
							SUBTOTAL	476326	46686	523012					837.22	2847	1679
													AS-BUILT	<b>QUANTITIES</b>			

NOTE: FOR CONTRACTOR INFORMATION ONLY

1-SEAL COAT EXCLUSIONS - AREA OF CONCRETE SECTON, BRIDGES AND WIDENINGS:

REF. 1, FM 455 CSJ: 0816-04-108, BRIDGE SECT. : L= 710' LF

- REF. 2, FM 981 CSJ: 1012-03-026, BRIDGE SECT. : L= 205+210+400+185+150= 1150 LF
- REF. 3, FM 982 CSJ: 0387-05-025, BRIDGE SECT. : L= 300 LF
- REF. 4, FM 1461 CSJ: 1973-01-019, BRIDGE SECT. : L= 210 LF

REF. 7, FM 2756 CSJ: 2814-01-008, BRIDGE SECT. : L= 790 LF

2-ASSUME ASPHALT WEIGHT OF 8.34 LBS/GAL FOR BASIS OF ESTIMATE

3-ASPHALT RATE SHOWN IS FOR BID PURPOSES ONLY

ACTUAL RATE WILL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER

4-STOCK PILE LOCATIONS ARE FOR CONTRACTORS INFORMATION

5-ALL STOP BARS AND STRIPING ON CONCRETE SECTIONS AND CONCRETE INTERSECTIONS MUST BE REMOVED AND REPLACED.

REF         #1         LONGITUDE         LATITUDE         REF         #2         LONGITUDE         LATITUDE         REF         #3         LONGITUDE         LATITUDE           FM         455         -96.596126         33.345358         FM         981         -96.310522         33.30311         FM         982         -96.500124         33.159388	STO	CKPILE LOCA	TION	9	STOCKPILE LO	CATION	STOCKPILE LOCATION				
FM 455 [-96, 596126] 33, 345358 [FM 981 [-96, 310522] 33, 30311 [FM 982 [-96, 500124] 33, 159388	REF #1	LONGITUDE	LATITUDE	REF #2	LONGITUDE	LATITUDE	REF #3	LONGITUDE	LATITUDE		
	FM 455	-96.596126	33.345358	FM 981	-96.310522	33.30311	FM 982	-96.500124	33.159388		

STOCK	KPILE LOCA	TION		STOCKPILE L	OCATION	STC	TION	
REF #4	LONGITUDE		REF	#5 LONGITUDE		REF #6	LONGITUDE	LATITUDE
FM 1461 -	-96.681287	33.261422	FM 1	1461 -96.681287	33.261422	FM 1562	-96.310419	33.302152

STO	CKPILE LOCA	TION		9	STOCKPILE LO	CATION
REF #7	LONGITUDE		RE		LONGITUDE	LATITUDE
FM 2756	-96.390872	33.213782	FN	1 2862	-96.453567	33.348837

## HARD CURVE MILL & INLAY QUANTITY SUMMARY

										354 6045	3077 6011	3077 6075	533-6003	Γ
REF. #	HWY.	LATITUDE/LONGITUDE OF CURVE LOCATIONS	FROM TRM	TO TRM	LENGTH (MI.)	LENGTH (FT)	WIDTH (FT)	INTERSECTIONS (SY)	TOTAL AREA (SY)	PLANE ASPH CONC PAV (2")	SP MIXES SP-C PG64-22	TACK COAT	RUMBLE STRIPS (SHOULDER) ASPHALT	F
										(SY)	(TON)	(GAL)	(LF)	Г
1 *	FM 455	33.362621/-96.619379	614+1.481	614+1.593	0.113	597	31	144	2200					Г
1 *	FM 455	33.350519/-96.619614	616+0.342	616+0.464	0.123	649	31	117	2352					Γ
4	FM 1461	33.260480/-96.680378	592+0.495	592+0.659	0.164	866	24	893	3202	3202	352.2	192		ſ
									SUBTOTAL	3202	352.2	192	0	Г

* THE ABOVE NOTED CURVES ARE OMITTED FROM THE SEAL COAT WORK AND WILL NOT BE MILLED & INLAYED; THE EXISTING ASPHALT PAVEMENT WILL BE LEFT IN PLACE FOR THE LIMITS OF THE CURVE AS-IS.

533-6004 RUMBLE STRIPS (CENTERLINE) ASPHALT (LF) 0

® 	Texas D Dallas	epartm Distri	ent of	Transportation 23 SEAL COAT	
	COLL	ΙN	COI	JNTY	

## QUANTITY SUMMARY

DESIGN DS	FED.RD. DIV.NO.	FEDERA	L AID PROJECT NO.	H   GHWAY NO-
GRAPHICS	6	SEE	TITLE SHEET	US 80,ETC.
DS	STATE	DISTRICT	COUNTY	SHEET NO.
CHECK	TEXAS	DAL	KAUFMAN, ETC.	
JH CHECK	CONTROL	SECTION	80L	32
LIELK	0095	03	107,ETC.	52

## COLLIN COUNTY WORK ZONE & PERMANENT PAVEMENT MARKINGS

REFERENCE NUMBER	HIGHWAY	C-S-J	560-6011 MAILBOX INSTALL-S (TWW-POST) TY 4	560-6013 MAILBOX INSTALL-M (TWW-POST) TY 4	662-6111 WRK ZN PAV MRK SHT TERM (TAB) TY Y-2	666-6174 REF PAV MRK TY II (W) 6" (SLD)	666-6178 REF PAV MRK TYII (W) 8- (SLD)			REF PAV	RE PROF PM (W)4"(SLD) RAISD		RE PROF PM (Y)4"(BRK) RAISD		668-6085 PREFAB PAV MRK TYC(W) WORD	668-6092 PREFAB PAV MRK TY C (W) (36") (YLD TRI)		677-6001 ELIM EXT PAV MRK & MRKS (4-)	678-6001 PAV SURF PREP FOR MRK (4-)
			( EA)	(EA)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(EA)	(EA)	(EA)	(LF)	(LF)
1	FM 455	0816-04-108			3147	49670		102	4720	34570				1	1		462	2840	2840
2	FM 981	1012-03-026			3990	58620		144	5660	46081	58620	46081	5660		2		674	4600	4600
3	FM 982	0387-05-025	2	2	755	44586		206		45280	44586	45280					503	1200	1200
4	FM 1461	1973-01-019	1		4499	54735	1700	510	4910	55065	54735			14	14		688	840	840
5	FM 1461	1392-03-016	1		232	12685	351	64		10010	12685	10010		7	3		125		
6	FM 1562	1492-01-012			616	10170		24	880	7203	10170	7203	880			3	121		
7	FM 2756	2814-01-008			3484	6Ø415		96	4930	4Ø18Ø							611	3160	316Ø
8	FM 2862	0816-05-026			1963	37420		108	4590	11786	37420						349		
		SUBTOTAL	4	2	18686	328301	2051	1254	25690	250175	218216	108574	6540	22	20	3	3533	12640	12640
AS-BUII	T QUANTI	TY SUBTOTALS																	

*NOTE: QTY INCLUDES LENGTH NEEDED FOR CROSSWALK BARS

X	Texas Department of Transportation										
COLLIN COUNTY											
WORK ZONE AND											
	WUN		ONE ANL	)							
S	TRIP	ING	QUANTI	ΙΤΥ							
DESIGN DS	FED.RD. DIV.NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.							
GRAPHICS	6	SEE -	TITLE SHEET	US 80,ETC.							
DS	STATE	DISTRICT	COUNTY	SHEET NO.							
	TEXAS	DAL	KAUFMAN, ETC.								
CHECK	CONTROL	SECTION	JOB	33							
	0095	03	107,ETC.								

# COLLIN COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY

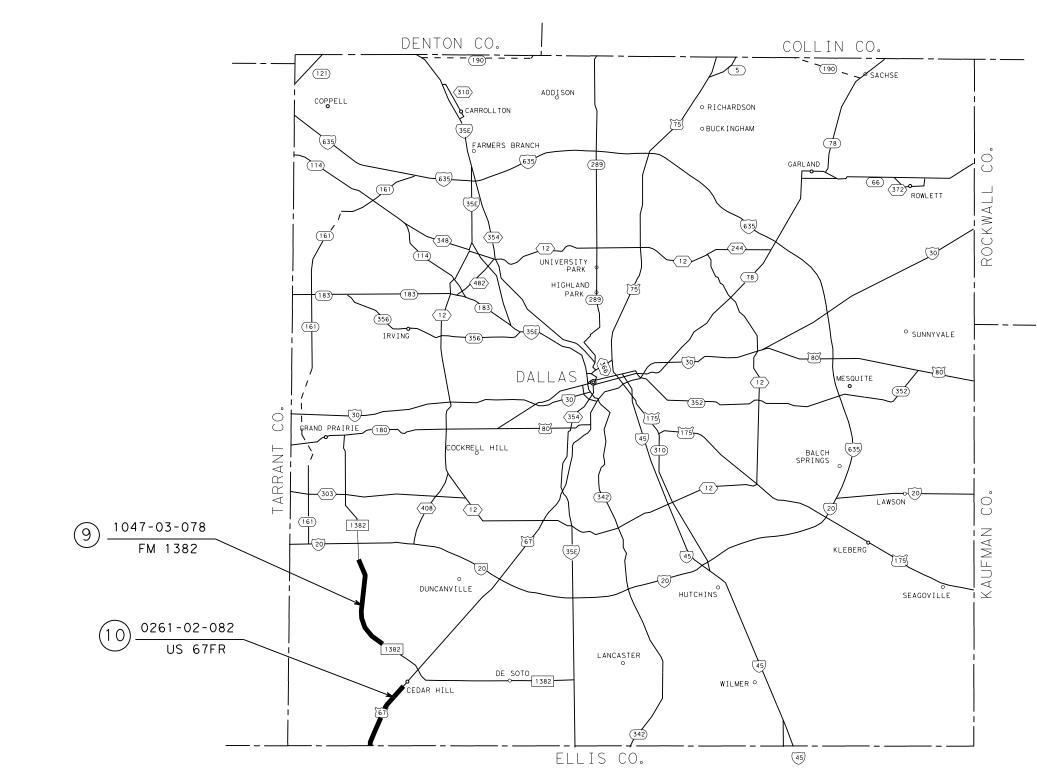
	455				V. & GORES	
INTERSECTION, WIDING,	ТҮР	LENGTH	WIDTH	R1	R2	AREA
RAMPS, CROSSOV., GORES		FT	FT	FT	FT	SY
WIDENING	ASPH	195	29			314
CR937	ASPH	31	21	12	8	39
CR287	ASPH	27	62	8	25	101
CR828	ASPH	10	12	10	10	18
COWAN ROAD	ASPH	27	30	20	20	109
CR288	ASPH	10	16	10	10	23
CR289	ASPH	105	24	27	12	301
CR290	ASPH	35	24	15	25	114
EAST FORK CIRCLE	ASPH	50	26	15	25	165
WIDENING	ASPH	2292	13			3311
				•	TOTAL	4495
	1461				V. & GORES	
INTERSECTION, WIDING,	ТҮР	LENGTH	WIDTH	R1	R2	AREA
RAMPS, CROSSOV., GORES		FT	FT	FT	FT	SY
Taper	ASPH	395	9			198
Sante FE trail	ASPH	33	65	33	33	290
Preston Hill circle	ASPH	37	24	20	20	118
Twin Lakes dr	ASPH	60	36	16	16	252
Highland Meadows Dr	ASPH	12	60	10	15	88
Falcon Road	ASPH	32	24	25	30	122
CR 83	ASPH	31	27	16	16	105
Coit Road	ASPH	20	48	20	24	130
Taper	ASPH	285	10			159
Widening	ASPH	930	10			1033
Taper	ASPH	300	10			167
Lilvana Ln	ASPH	51	64	25	20	387
Winding creek rd	ASPH	11	75	15	15	102
Wells rd	CONC					0
Taper	ASPH	373	12			249
Widening	ASPH	345	12			460
Taper	ASPH	507	12			338
Taper	ASPH	128	16			114
Widening	ASPH	725	16			1289
Taper	ASPH	104	16			93
Pebble Creek	ASPH	12	70	10	10	98
Oakbend trail	CONC					0
Waterview trail	ASPH	60	125	25	25	863
Amberwood lane	ASPH	12	56	15	15	85
Wellspring pkwy	ASPH	12	56	15	15	85
Collin green dr	CONC				1 10	0
Meadow Green St	CONC					0
Taper	ASPH	252	12			168
Widening	ASPH	526	12			701
-		0.05	10			4
Iaper Mill Pond	ASPH ASPH	30	12 32	20	24	157
S FM 2478	ASPH	35	24	20	24	130
N FM 2478	ASPH	30	50	35	35	225
				35	35	
Taper	ASPH	190	10			106
WIDENING	ASPH	550	10			611
Taper	ASPH	250	10			139
CR 165 Franklin Branch Rd	ASPH	30	24	33	30	127
	ASPH	30	16	20	25	78

REF. # 2 FM	981	INTERWI	DING. RAM	PS.CROSSO	V. & GORES	OUANTITY
INTERSECTION, WIDING,		LENGTH	WIDTH	R1	R2	AREA
RAMPS, CROSSOV., GORES	ТҮР	FT	FT	FT	FT	SY
E LAMM ST	ASPH	23	35	115	19	413
SH 78	ASPH					0
TAPER NEAR SH 78	ASPH ASPH	375	21			438
BRIDGE NEAR SH 78 CR 630	ASPH	135 23	21 24	25	25	<u>315</u> 91
CR 626	ASPH	37	24	34	23	145
CR 632	ASPH	48	20	16	16	119
TAPER AFTER CR 632	ASPH	450	21			525
BRIDGE AFTER CR 632	ASPH	190	21			443
CR 628	ASPH	28	24	28	18	101
CR 671	ASPH	30	24	20	24	103
TAPER ON INDIAN CREEK BRIDGE AT INDIAN CREEK	ASPH ASPH	455 275	21 21			531
CR 670	ASPH	43	21	27	27	<u>642</u> 149
CR 667	ASPH	37	24	27	20	118
TAPER ON BEAR CREEK	ASPH	300	21	20	20	350
BRIDGE ON BEAR CREEK	ASPH	1230	21			2870
CR 669	ASPH	37	24	28	28	136
					TOTAL	7489
REF. # 5 FM	1461				V. & GORES	
INTERSECTION, WIDING,		LENGTH	WIDTH	R1	R2	AREA
RAMPS, CROSSOV., GORES	ТҮР	FT	FT	FT	FT	SY
INTERSECTION AT CR 164	ASPH	30	94	25	48	383
BAXTERWELL ROAD	ASPH	30	22	20	20	92
TAPER	ASPH	250	25			347
WIDENING	ASPH	185	25			514
TAPER	ASPH	185	12			124
WIDENING	ASPH	345	12			460
					TOTAL	1920
REF. # 6 FM	1562	INTERWI	DING. RAM	PS.CROSSC		
REF. # 6 FM INTER	1562 TYP	INTER.,WI	DING, RAM WIDTH	PS,CROSSC R1		1920 S QUANTITY AREA
INTER					DV. & GORE	S QUANTITY
INTER Crossover Collin CL		LENGTH	WIDTH	R1	OV. & GORE	S QUANTITY AREA
INTER	ТҮР	LENGTH FT	WIDTH FT	R1 FT	<b>PV. &amp; GORE</b> <b>R2</b> <b>FT</b> 27 22	S QUANTITY AREA SY 221 221
INTER Crossover Collin CL	TYP ASPH	LENGTH FT 60	<b>WIDTH</b> <b>FT</b> 30	<b>R1</b> <b>FT</b> 13	DV. & GORE R2 FT 27	S QUANTITY AREA SY 221
INTER Crossover Collin CL Crossover FM 981	TYPASPHASPH	<b>LENGTH</b> <b>FT</b> 60 60	<b>WIDTH</b> <b>FT</b> 30 30	<b>R1</b> <b>FT</b> 13 20	DV. & GORE R2 FT 27 22 TOTAL	S QUANTITY AREA SY 221 221 442
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM	TYP           ASPH           ASPH           2756	LENGTH FT 60 60 INTER.,WI	WIDTH FT 30 30	<b>R1</b> FT 13 20 <b>PS,CROSS</b> (	DV. & GORE R2 FT 27 22 TOTAL DV. & GORE	S QUANTITY AREA SY 221 221 442 S QUANTITY
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING,	TYPASPHASPH	LENGTH FT 60 60 INTER.,WI LENGTH	WIDTH FT 30 30 DING, RAM WIDTH	R1 FT 13 20 PS,CROSSG R1	DV. & GORE R2 FT 27 22 TOTAL DV. & GORE R2	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM	TYP           ASPH           ASPH           2756	LENGTH FT 60 60 INTER.,WI	WIDTH FT 30 30	<b>R1</b> FT 13 20 <b>PS,CROSS</b> (	DV. & GORE R2 FT 27 22 TOTAL DV. & GORE	S QUANTITY AREA SY 221 221 442 S QUANTITY
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	TYP           ASPH           ASPH           2756           TYP	LENGTH FT 60 60 INTER.,WI LENGTH FT	WIDTH FT 30 30 DING, RAM WIDTH FT	R1 FT 13 20 PS,CROSS( R1 FT	DV. & GORE: R2 FT 27 22 TOTAL DV. & GORE R2 FT	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377	TYP           ASPH           ASPH           2756           TYP           ASPH	LENGTH FT 60 60 INTER.,WI LENGTH FT 0	WIDTH           FT           30           30           DING, RAM           WIDTH           FT           0	R1 FT 13 20 PS,CROSS( R1 FT 35	PV. & GORE:           R2           FT           27           22           TOTAL           PV. & GORE           R2           FT           40	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569	TYPASPHASPH2756TYPASPHASPHASPHASPHASPH	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50	WIDTH           FT           30           30           DING, RAM           WIDTH           FT           0           22           230	R1 FT 13 20 PS,CROSS( R1 FT 35 30 15 14	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           16           34	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 570	TYP ASPH ASPH 2756 TYP ASPH ASPH ASPH ASPH	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50	WIDTH           FT           30           30           DING, RAM           WIDTH           FT           0           22           22           30           30	R1 FT 13 20 PS,CROSS( R1 FT 35 30 15 14 24	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           16           34           34	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 568 CR 569 CR 570 WIDENING	TYP ASPH ASPH 2756 TYP ASPH ASPH ASPH ASPH ASPH	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 50 2725	WIDTH           FT           30           30           0           20           22           22           30           30	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           00. & GORE           R2           FT           16           34           34           0	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 570 WIDENING TAPER	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 50 2725 290	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           22           30           30           30           30           30           30           30           30           30           30           30           30           3           7	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           00.           34           34           0           0	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH	LENGTH FT 60 60 iNTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           30           30           30           7           7	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           0           0           0           0	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 568 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 50 2725 290	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           22           30           30           30           30           30           30           30           30           30           30           30           30           3           7	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           00.           34           34           0           0	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH	LENGTH FT 60 60 iNTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           30           30           30           7           7	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0	R2           FT           27           22           TOTAL           DV. & GORE           FT           40           16           34           34           0           0           0           0	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 568 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 iNTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           30           30           30           7           7	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           0           0           0           0	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 1NTER.,WI LENGTH FT 0 30 175 50 2725 290 3955 30 30	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           30           30           30           7           7           24	R1 FT 13 20 PS,CROSSC R1 FT 35 30 15 14 24 0 0 0 0 0 0 27	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           34           0           0           0           20	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING,	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 1NTER.,WI LENGTH FT 0 30 175 50 2725 290 3955 30 30	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           30           30           30           7           7           24	R1 FT 13 20 PS,CROSSC R1 FT 35 30 15 14 24 0 0 0 0 0 0 27	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           34           0           0           0           20	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 568 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 3955 30	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           DING, RAM           WIDTH           FT	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0 27 PS,CROSSG	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           34           0           0           0           20           TOTAL	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 568 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 2725 290 3955 30 1 VITER.,WI LENGTH FT 648	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           22           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           DING, RAM           WIDTH           FT           81	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0 27 27 PS,CROSSG R1	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           10           16           34           34           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0      0         0  <	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 2725 290 3955 30 10 ENGTH FT 648 500	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           230           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           0           0           0           0           30           30           30           30           30           30           40	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0 27 0 0 27 PS,CROSSG R1 FT	R2       FT       27       22       TOTAL       DV. & GORE       R2       FT       40       16       34       34       0       0       0       20       TOTAL	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832 1361
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper CR513 driveway	TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 2725 290 3955 30 1 NTER.,WI LENGTH FT 648 500 46	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           22           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           DING, RAM           WIDTH           FT           81           49           24	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0 27 0 0 27 PS,CROSSG R1 FT 20	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           40           16           34           0           0           0           0           0           0           0           0           0           0           0           0           20           ET           20	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832 1361 142
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 568 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper CR513 driveway CR513 driveway	TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 300 175 50 50 2725 290 3955 30 INTER.,WI LENGTH ENGTH FT 648 500 46 46	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           20           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           24           24           24           24	R1 FT 13 20 PS,CROSSC R1 FT 35 30 15 14 24 0 0 0 0 27 0 0 27 PS,CROSSC R1 FT FT	A         GORE:           R2         FT           27         22           TOTAL         DV. & GORE           PT         40           16	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA 5832 1361 142 140
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper CR513 driveway CR513 driveway CR513 driveway	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH Z862 TYP ASPH ASPH ASPH ASPH ASPH ASPH	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 2725 290 3955 30 INTER.,WI LENGTH FT 648 500 46 46 35	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           230           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           24           24           24           24           24           24	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0 27 0 27 PS,CROSSG R1 FT FT 20 20 20 16	A         GORE:           R2         FT           27         22           TOTAL         DV. & GORE           PT         40           16         34           34         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         10           20         18           20         18	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832 1361 142 140 109
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper CR513 driveway CR513 driveway CR513 driveway CR512 driveway FM 455	TYP ASPH ASPH Z756 TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 300 175 50 50 2725 290 3955 30 2725 290 3955 30 INTER.,WI LENGTH FT 648 500 46 46 35 27	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           24           24           24           24           24           24           24           24           24           24	R1 FT 13 20 PS,CROSSC R1 FT 35 30 15 14 24 0 0 0 0 27 0 0 27 PS,CROSSC R1 FT FT	A         GORE:           R2         FT           27         22           TOTAL         DV. & GORE           PT         40           16	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832 1361 142 140 109 151
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper CR513 driveway CR513 driveway CR513 driveway CR513 driveway CR512 driveway CR512 driveway CR512 driveway CR512 driveway CR512 driveway CR512 driveway CR512 driveway CR512 driveway CR513 driveway CR512 driveway CR512 driveway CR512 driveway CR512 driveway CR512 driveway CR512 driveway CR513 driveway CR512 driveway CR512 driveway CR512 driveway CR513 driveway CR512 driveway CR513 driveway CR512 driveway CR513 driveway CR512 driveway CR513 driveway CR512 driveway CR513 driveway CR512 driveway CR513 driveway CR512 driveway CR512 driveway CR513 driveway CR512 driveway CR513 driveway CR512 driveway CR513 drivewa	TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 2725 290 3955 30 <b>INTER.,WI</b> LENGTH FT 648 500 46 46 35 27 500	WIDTH           FT           30           30           30           DING, RAM           WIDTH           FT           0           22           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           24           24           24           24           24           24           24           24           24           24           28           2	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0 27 27 PS,CROSSG R1 FT 20 20 20 16 40	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           40           16           34           0           20           TOTAL           DV. & GORE           R2           FT           400           16           0           0           0           0           0           0           0           0           0           0           0           0           20           18           20           35	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832 1361 142 140 109 151 111
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper CR513 driveway CR513 driveway CR513 driveway CR512 driveway CR506	TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 2725 290 3955 30 3955 30 <b>INTER.,WI</b> LENGTH FT 648 500 46 46 35 27 500 42	WIDTH           FT           30           30           30           30           DING, RAM           WIDTH           FT           0           22           230           30           30           31           7           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           28           2           24           24           24           24           24           24           24           24           24      <	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0 27 0 0 27 PS,CROSSG R1 FT 20 20 16 40 20	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           40           16           34           34           0           0           0           0           20           TOTAL           0           20           16           20           18           20           18           20           18           20           18           20           20           20           20           20	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832 1361 142 140 109 151 111 131
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 568 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper CR513 driveway CR513 driveway CR514 driveway CR515 driveway CR515 driveway CR516 driveway CR516 driveway CR517 driveway CR518 driveway CR518 driveway CR519 driveway CR519 driveway CR519 driveway CR510 driveway CR510 driveway CR510 driveway CR510 driveway CR513 driveway CR513 driveway CR513 driveway CR513 driveway CR513 driveway CR513 driveway CR513 driveway CR514 driveway CR515 driveway CR516 driveway CR516 driveway CR517 driveway CR518 driveway CR519 drivewa	TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 290 3955 30 2725 30 2725 290 3955 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 2725 30 30 2725 30 2725 30 30 30 30 2725 30 30 30 30 30 30 30 30 30 30 30 30 30	WIDTH           FT           30           30           30           30           20           22           22           22           30           30           30           30           30           30           30           30           30           30           30           30           30           30           30           31           7           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 27 0 0 27 0 0 27 PS,CROSSG R1 FT FT 20 20 20 16 40	A         GORE:           R2         FT           27         22           TOTAL         DV. & GORE           R2         FT           40         16           34         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           20         20           18         20           35         20           20         20	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832 1361 142 140 109 151 111 131 96
INTER Crossover Collin CL Crossover FM 981 REF. # 7 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES FM 1377 CR 1065 CR 568 CR 569 CR 569 CR 569 CR 570 WIDENING TAPER BRIDGE CR 613 SH 78 REF. # 8 FM INTERSECTION, WIDING, RAMPS, CROSSOV., GORES Widening Taper CR513 driveway CR513 driveway CR513 driveway CR512 driveway CR506	TYP ASPH ASPH ASPH ASPH ASPH ASPH ASPH ASP	LENGTH FT 60 60 INTER.,WI LENGTH FT 0 30 175 50 50 2725 290 3955 30 2725 290 3955 30 3955 30 <b>INTER.,WI</b> LENGTH FT 648 500 46 46 35 27 500 42	WIDTH           FT           30           30           30           30           DING, RAM           WIDTH           FT           0           22           230           30           30           31           7           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           24           28           2           24           24           24           24           24           24           24           24           24      <	R1 FT 13 20 PS,CROSSG R1 FT 35 30 15 14 24 0 0 0 0 27 0 0 27 PS,CROSSG R1 FT 20 20 16 40 20	R2           FT           27           22           TOTAL           DV. & GORE           R2           FT           40           16           34           34           0           0           0           0           20           TOTAL           0           20           16           20           18           20           18           20           18           20           18           20           20           20           20           20	S QUANTITY AREA SY 221 221 442 S QUANTITY AREA SY 67 101 433 199 208 908 113 3076 107 0 5212 S QUANTITY AREA SY 5832 1361 142 140 109 151 111 131

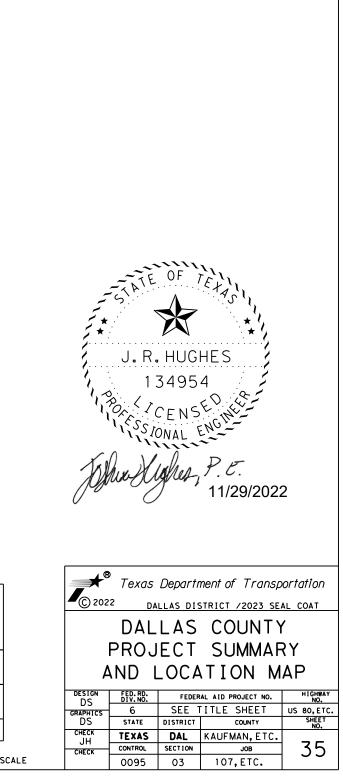
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FM	982	INTER.,WI	DING, RAM	PS,CROSSO	V. & GORE	S QUANTITY
ON, WIDING,	ТҮР	LENGTH	WIDTH	R1	R2	AREA
SSOV., GORES	116	FT	FT	FT	FT	SY
1219	ASPH	10	30	30	20	64
R ROAD	CONC					0
1219	ASPH	15	40	15	15	77
1000	ASPH	12	16	10	12	27
449	ASPH	50	20	31	20	144
451	ASPH	28	22	20	25	93
N ROAD	CONC					0
1109	ASPH	30	24	20	20	99
NNA ST	CONC					0
GEON ST	CONC					0
3764	ASPH					0
744	ASPH	12	12	10	10	21
959	ASPH	30	16	20	25	78
969	ASPH	10	10	10	10	16
744	ASPH	25	16	15	17	57
392	ASPH	40	24	30	20	138
745	ASPH	20	20	10	15	52
TUIT ROAD	CONC					0
ENING	ASPH	15110	5			8394
444	ASPH	30	20	20	20	86
1078	ASPH	30	16	15	15	64
ENING	ASPH	4000	5			2222
546	ASPH	145	38	30	45	682
					TOTAL	9410

	Texas Department of Transportation									
© 2022 DALLAS DISTRICT /2023 SEAL COAT										
COLLIN COUNTY										
INT	INTERSECTION, WIDENING									
RAM	PS &	GOR	ES QUAN	ΤΙΤΥ						
DESIGN	FED. RD. DIV. NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.						
DS GRAPHICS	6	SEE	TITLE SHEET	US 80,ETC.						
DS	STATE	DISTRICT	COUNTY	SHEET NO.						
CHECK		DAL	KAUFMAN, ETC.	_						
JH CHECK	CONTROL	SECTION	JOB	34						
	0095	03	107,ETC.	<b>.</b> .						



						ROADWAY LIMITS		
REFERENCE NUMBER	HIG	HWAY	C-S-J	FROM		ТО		1
INCI IDEIX				DESCRIPTION	TRM	DESCRIPTION	TRM	
9	FM	1382	1047-03-078	N OF MOUNTAIN CREEK	274+0.459	CEDAR HILL PARK ENTRANCE	276+1.291	
10	US	67FR	0261-02-082	COOPER ST.	418+Ø.816	ELLIS COUNTY LINE	420+1.937	
-							TOTAL	



LA)

RDWY. LENGTH (MI) 2.875 3.047 5.922 NOT TO SCALE

## 2022 DALLAS COUNTY SEAL COAT QUANTITY SUMMARY

PAVEMENT	ITEN	15																	
REFERENCE NUMBER	н	WY.	C-S-J		FROM		MEASURED ROADWAY LENGTHS (FT)		SEAL COAT ROADWAY AREAS (SY)	INT. RAMPS, CROSS OVER AND GORE AREAS (SY)	TOTAL AREA (SY)	ADT	AGG (GR3 OR 4)	ASPHALT RATE	AGG RATE (SY/CY)	316-6454 ASPH (AC-15P, AC-20-5TR, OR AC-20XP) (TON)	316-6255 AGGR (TY-PL GR-3LW) SAC-B (CY)	316-6434 AGGR (TY-PB GR-4 OR TY-PL GR-4) SAC-B (CY)	
		-						24		(31)	(31)	-		(0/1/)	(31/01)		(01)		
				SB	N OF MOUNTAIN CREEK	CEDAR HILL PARK ENTRANCE	635		1693	5280	63940	22695				87.99		512	
9	FM	1382	1047-03-078			ENTRAINCE	13492	38	56966					0.33	125				
5	1 101	1502	1047 03 070	NB	CEDAR HILL PARK	N OF MOUNTAIN CREEK	450	34	1700	5280	66724	19991	-	0.55	0.55	110	91.82		534
				ND	ENTRANCE	N OF MOONTAIN CREEK	14150	38	59744	5280	00724	19991				91.82		554	
10	US	67FR	0261-02-082	SB FR	COOPER ST.	ELLIS COUNTY LINE	15408	34	58208	967	59175	2574	2	0.42	110	103.64	538		
10	03			NB FR	ELLIS COUNTY LINE	COOPER ST.	15468	34	58435	540	58975	2574	5	0.42	110	103.29	491		
								SUBTOTAL	236747	12067	248814					386.74	1029	1046	
AS-BUILT QUANTITY SUBTOTALS																			

NOTE: FOR CONTRACTOR INFORMATION ONLY

1-EXCLUSIONS - AREA OF CONCRETE SECTON, BRIDGES, OR WIDENINGS:

REF. 9, FM 1382 CSJ: 1047-03-078, SOUTHBOUND BRIDGE SECT. : L= 750 '

REF. 9, FM 1382 CSJ: 1047-03-078, NORTHBOUND BRIDGE SECT. : L= 600 '

REF. 10, US 67 CSJ: 0261-02-082, SOUTHBOUND INT. LEAVE-OUT : L= 110'(@ COOPER AT) + 240'(@ TIDWELL ST.) + 290'(@ MT. LEBANON RD.)=640' REF. 10, US 67 CSJ: 0261-02-082, NORTHBOUND INT. LEAVE-OUT: L=345′(@ MT. LEBANON RD.) + 190′(@ TIDWELL ST.) + 100′(@ COOPER AT)=635′ 2-ASSUME ASPHALT WEIGHT OF 8.34 LBS/GAL FOR BASIS OF ESTIMATE

3-ASPHALT RATE SHOWN IS FOR BID PURPOSES ONLY

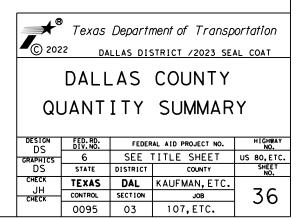
ACTUAL RATE WILL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER

4-STOCK PILE LOCATIONS ARE FOR CONTRACTORS INFORMATION

5-ALL STOP BARS AND STRIPING ON CONCRETE SECTIONS AND CONCRETE INTERSECTIONS MUST BE REMOVED AND REPLACED.

STO	CKPILE LOC	ATION		STO	CKPILE LOC	ATION
REF #9A	LONGITUDE	LATITUDE	REF	#9B	LONGITUDE	LATITUDE
FM1382	-96.979924	32.655775	FM1	382	-96.97512	32.629637

STOCKPILE LOCATION					STOCKPILE LOCATION					
REF #1ØA	LONGITUDE	LATITUDE		REF	#1ØB	LONGITUDE	LATITUDE			
US 67FR	-96.962176	32.57544		US	67FR	-96.959091	32.576468			



## DALLAS COUNTY WORK ZONE & PERMANENT PAVEMENT MARKINGS

## STRIPING & SAFETY ITEMS

STRIPING 8	& SAFETY ITE	EMS																				
			560-6011	560-6012	560-6013	662-6109	666-6167	666-6174	666-6178	666-6182	666-6207	666-6212	666-6441	666-6442	668-6077	668-6085	668-6092	672-6007	672-6009	672-6010	677-6001	678-6001
			MAILBOX	MAILBOX	MAILBOX	WRK ZN	<b>REF PAV</b>	<b>REF PAV</b>	<b>REF PAV</b>	REF PAV	REF PAV	REF PAV	<b>RE PROF PM</b>	<b>RE PROF PM</b>	PREFAB	PREFAB	PREFAB	REF PAV	REF PAV		ELIM EXT	
DEEEDENICE			INSTALL-S	INSTALL-D						MRK TY II		MRK TY II	(W)4"(SLD)	(Y)4"(SLD)				MRKR	MRKR	MRKR		PREP FOR
REFERENCE NUMBER	HIGHWAY	C-S-J	· · · /	· · · /	(TWW-POST)			(W) 6"	(W) 8"	(W) 24"	(Y) 4"	(Y) 12"	RAISD	RAISD			TY C (W)	ΤΥΙ	TY II	TY II	& MRKS	MRK
			TY 4	TY 4	TY 4	(TAB)	(BRK)	(SLD)	(SLD)	(SLD)	(SLD)	(SLD)	PROF ONLY	PROF ONLY	(ARROW)	WORD	(36")	С	A-A	C-R	(4")	(4")
			<i>i</i>	<i>i</i> –	<i>i</i> –	TY W	<b>.</b>			*		<i>i</i>					(YLD TRI)			<i>i</i>		
			(EA)	(EA)	(EA)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(EA)	(EA)	(EA)	(LF)	(LF)
9	FM 1382	1047-03-078				2256	7120	29147	3279	534	29505				13	13	60	364	30	158	1414	1414
+10	US 67FR	0261-02-082	29	1	1	585	5830	30371	5640	468	37581	2470	30371	37581	8		12			1063		
		SUBTOTAL	29	1	1	2841	12950	59518	8919	1002	67086	2470	30371	37581	21	13	72	364	30	1221	1414	1414
A	S-BUILT QUAI	NTITY SUBTOTALS																				

*NOTE: QTY INCLUDES LENGTH NEEDED FOR CROSSWALK BARS

+NOTE: STRIPING QUANTITY INCLUDES AREA OF RAMPS UPTO END OF ENTRANCE/EXIT GORES ON RAMPS

Texas Department of Transportation									
DALLAS COUNTY WORK ZONE AND STRIPING QUANTITY									
DESIGN	FED. RD. DIV. NO.		AL AID PROJECT NO.	HIGHWAY					
DS	6		TITLE SHEET	NO. US 80,ETC.					
GRAPHICS DS	STATE	DISTRICT	COUNTY	SHEET NO.					
CHECK	TEXAS	DAL	KAUFMAN, ETC.						
ЈН СНЕСК	CONTROL	SECTION	JOB	37					
	0095	03	107,ETC.						

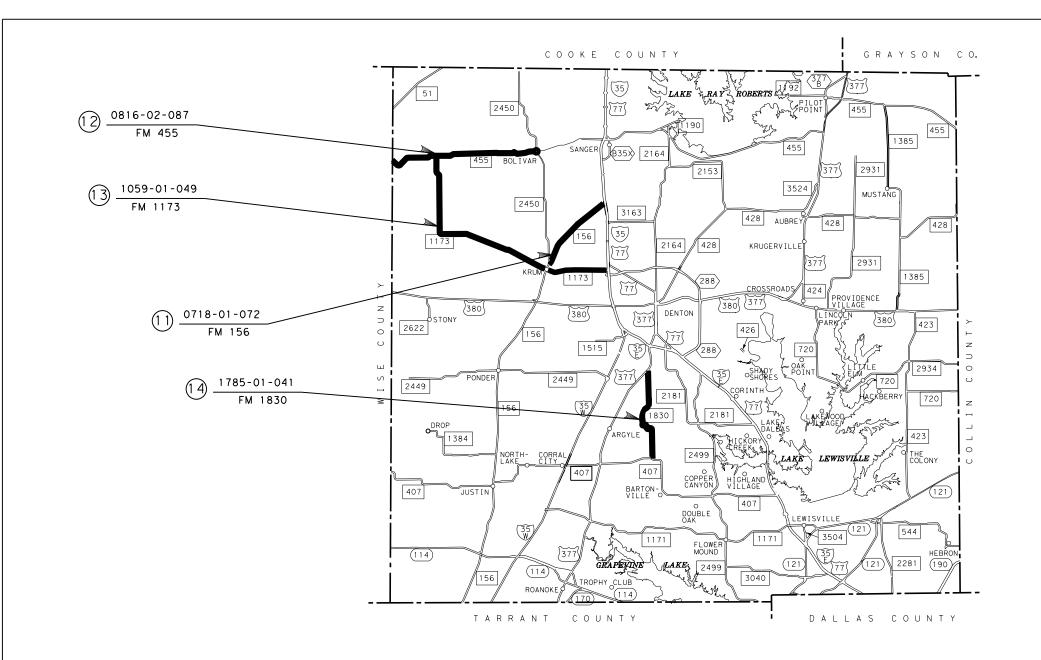
# DALLAS COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY

REF. # 9 FM	1382	INTER.,WI	DING, RAM	PS,CROSSO	V. & GORES	5 QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
				••	••	
LEFT TURN LANE - SB	ASPH	395	22			1216
CAMP WISDOM RD INTER.	ASPH	105	75	20	20	894
LEFT TURN LANE - NB	ASPH	260	22			1180
CAMP WISDOM RD DRIVEWAY - NB	ASPH	75	54	25	25	480
LEFT TURN LANE - SB	ASPH	125	16			334
FOX CREEK TRL CROSSOVER	ASPH	75	60	25	25	530
FOX CREEK TRL DRVWY (IN) - NB	ASPH	27	24	20	8	83
FOX CREEK TRL DRVWY (OUT) - NB	ASPH	44	24	8	32	143
MARITIME WAY DRIVEWAY - NB	CONC					0
LEFT TURN LANE - SB	ASPH	125	16			333
EAGLE FORD DR CROSSOVER	ASPH	75	60	20	20	519
EAGLE FORD DR DRIVEWAY - NB	CONC					0
LEFT TURN LANE - SB	ASPH	165	18			483
MANSFIELD RD DRIVEWAY - SB	ASPH	40	24	25	20	131
MANSFIELD RD CROSSOVER	ASPH	45	100	10	25	517
LEFT TURN LANE - NB	ASPH	160	18			430
RIGHT TURN LANE - SB	ASPH	360	22			1064
LEFT TURN LANE - SB	ASPH	145	14			316
PENN BRANCH PKWY DRVWY	ASPH	75	24			290
PENN BRANCH PKWY INTER.	ASPH	35	50	25	25	224
RIGHT TURN ACCEL LANE - SB	ASPH	325	22			794
LEFT TURN LANE - NB	ASPH	385	14			599
					TOTAL	10560

REF. # 10A U	S 67FR	INTER.,WI	DING, RAMI	PS,CROSSC	OV. & GORES	QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
SOUTHBOUND						
COOPER ST	ASPH					
ON RAMP	CONC					
SHORT ST	ASPH	20	20	20	17	61
JEFFERSON ST	ASPH	48	24	24	24	155
ROBINSON ST	ASPH	31	22	15	15	87
OFF RAMP	CONC					
TIDWELL ST	ASPH					
ON RAMP	CONC					
GRISBY WAY	ASPH	60	47	44	16	366
JEALOUS WAY	ASPH	24	36	24	24	123
OFF RAMP	CONC					
KINGSWOOD DR	ASPH	34	34	38	23	175
KARI ANN DR	CONC					
OFF RAMP	CONC					
MT LEBANON RD	ASPH					
ON RAMP	CONC					
OFF RAMP	CONC					
					TOTAL	967

REF. #10B	US 67FR	INTER., WIDING, RAMPS, CROSSOV. & GORES QUANTITY								
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	с Түр	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY				
NORTHBOUND										
STRAIGHT ST	GRVL									
OFF RAMP	CONC									
MT LEBANON RD	ASPH									
ON RAMP	CONC									
INDUSTRIAL WAY	ASPH	24	30	26	18	104				
KCK WAY	ASPH	50	33	31	39	243				
S CEDAR HILL RD	ASPH	42	30	38	28	193				
OFF RAMP	CONC									
TIDWELL ST	ASPH									
ON RAMP	CONC									
OFF RAMP	CONC									
COOPER ST/STADIUM DR	ASPH									
					TOTAL	540				

Texas Department of Transportation									
C 2022 DALLAS DISTRICT /2023 SEAL COAT									
DALLAS COUNTY									
INT	ERSE	CTIC	DN,WIDE	NING					
RAM	IPS &	GOR	ES QUAN	TITY					
DESIGN DS	FED.RD. DIV.NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.					
GRAPHICS	6	SEE 1	FITLE SHEET	US 80,ETC.					
DS	STATE	DISTRICT	COUNTY	SHEET NO.					
СНЕСК ЈН	TEXAS	DAL	KAUFMAN, ETC.						
CHECK	CONTROL	JOB	38						
	0095	03	107,ETC.						



_					ROADWA	Y LIMITS		RDWY.
REFERENCE NUMBER	HIGHWAY		C-S-J	FROM		то		LENGTH
NOMBER				DESCRIPTION	TRM	DESCRIPTION	TRM	(MI)
11	FM	156	0718-01-072	IH 35	230+0.003	FM 1173	234+0.977	5.011
12	FM	455	0816-02-087	WISE COUNTY LINE	564+0.000	FM 2450	572+0.602	8.496
13	FM	1173	1059-01-049	FM 455	552-0.053	IH 35	566+0.579	14.380
14	FM	1830	1785-01-041	S.US 377	240+0.055	FM 407	244+1.456	5.372
	-	•					SUBTOTAL	33.259

	STATE OF TETAS
YY. TH )	J. R. HUGHES J. R. HUGHES J. A. J. S. J. A. J. J. A. J.
1 6 30 2 59	Texas Department of Transportation         C 2022         DALLAS DISTRICT /2023 SEAL COAT         DENTON COUNTY         DENTON COUNTY         PROJECT SUMMARY         AND LOCATION MAP         DESIGN DECT NO. HIGHWAY         DESIGN DECT NO. HIGHWAY         DESIGN DESIGN DECT NO. HIGHWAY         DS STATE DISTRICT COUNTY         SHEET US 80, ETC.         DS STATE DISTRICT COUNTY         CHECK         JH         CONTROL SECTION JOB         OO95 O3 107, ETC.

### 2022 DENTON COUNTY SEAL COAT QUANTITY SUMMARY MEASURED ROADWAY SEAL COAT INT. RAMPS, ASPHALT TOTAL ADT AGG WIDTHS ROADWAY ROADWAY **CROSS OVER** AREA RATE REFERENCE HWY. C-S-J FROM то LENGTHS AREAS AND GORES NUMBER AREA (FT) (FT) (SY) (SY) (SY) (GR3 OR 4) (GAL/SY) 134238 6615 0.33 11 FM 156 0718-01-072 IH 35 FM 1173 26294 34 99333 34905 4 28 133563 42931 FM 455 0816-02-087 WISE COUNTY LINE FM 2450 10020 148625 1775 3 0.42 12 5042 25 1815 197174 197174 4326 FM 455 FM 156 31 3 0.42 57244 FM 1173 1059-01-049 14544 13 31 63946 78490 9255 4 0.33 18565 FM 156 IH 35 FM 1830 1785-01-041 FM 407 88498 113855 8562 0.33 14 S. US 377 29 25357 4 27465 SUBTOTAL 587556 84826 672381 AS-BUILT QUANTITY

NOTE: FOR CONTRACTOR INFORMATION ONLY

1- EXCLUSIONS - AREA OF CONCRETE SECTON, BRIDGES, OR WIDENINGS:

REF. 11, FM 156 CSJ: 0718-01-072, BRIDGE SECT. : L= 185 LF

REF. 12, FM 455 CSJ: 0816-02-087, BRIDGE SECT. : L= 225 LF

REF. 13, FM 1173 CSJ: 1059-01-049, BRIDGE SECT. : L= 175 LF

REF. 14, FM 1830 CSJ: 1785-01-141, BRIDGE SECT. : L= 365+260+235+210 LF; LEAVE OUT= 1070 LF

2- ASSUME ASPHALT WEIGHT OF 8.34 LBS/GAL FOR BASIS OF ESTIMATE

3- ASPHALT RATE SHOWN IS FOR BID PURPOSES ONLY

ACTUAL RATE WILL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER

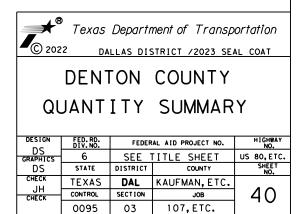
4- STOCK PILE LOCATIONS ARE FOR CONTRACTORS INFORMATION

5- ALL STOP BARS AND STRIPING ON CONCRETE SECTIONS AND CONCRETE INTERSECTIONS MUST BE REMOVED AND REPLACED.

STO	OCKPILE LOCA	TION	STOCKPILE LOCATION					
REF #11	LONGITUDE	LATITUDE	REF #12	LONGITUDE	LATITUDE			
FM156	-97.182566	33.31366	FM455	-97.265056	33.356907			

STO	OCKPILE LOCA	TION	]	STOCKPILE LOCATION				
REF #13	LONGITUDE	LATITUDE		REF #14	LONGITUDE	LATITUDE		
FM1173	-97.343124	33.354392		FM1830	-97.141651	33.176214		

AGG RATE	316-6454 ASPH (AC-15P, AC-20-5TR, OR AC-20XP)	316-6255 AGGR (TY-PL GR-3LW) SAC-B	316-6434 AGGR (TY-PB GR-4 OR TY-PL GR-4) SAC-B		
(SY/CY)	(TON)	(CY)	(CY)		
125	184.73		1074		
110	260.30	1351			
110	345.33	1792			
125	108.01		628		
125	156.68		911		
	1055.05	3143	2613		
SUBTOTALS					



## DENTON COUNTY WORK ZONE & PERMANENT PAVEMENT MARKINGS

REFERENCE NUMBER	HIGHWAY	C-S-J	560-6011 MAILBOX INSTALL-S (TWW-POST) TY 4 (EA)	560-6013 MAILBOX INSTALL-M (TWW-POST) TY 4 (EA)	662-6111 WRK ZN PAV MRK SHT TERM (TAB) TY Y-2 (EA)	666-6167 REF PAV MRK TY II (W) 4" (BRK) (LF)	666-6174 REF PAV MRK TY II (W) 6" (SLD) (LF)	666-6178 REF PAV MRK TYII (W) 8" (SLD) (LF)	666-6182 REF PAV MRK TY II (W) 24" (SLD) * (LF)	666-6205 REF PAV MRK TY II (Y) 4" (BRK) (LF)	666-6207 REF PAV MRK TY II (Y) 4" (SLD) (LF)	666-6212 REF PAV MRK TY II (Y) 12" (SLD) (LF)	666-6441 RE PROF PM (W)4"(SLD) RAISD PROF ONLY (LF)	666-6442 RE PROF PM (Y)4"(SLD) RAISD PROF ONLY (LF)	666-6443 RE PROF PM (Y)4"(BRK) RAISD PROF ONLY (LF)	668-6077 PREFAB PAV MRK TY C (W) (ARROW) (EA)	668-6085 PREFAB PAV MRK TY C (W) WORD (LF)	668-6089 PREFAB PAV MRK TY C (W) (RR XING) (EA)	668-6092 PREFAB PAV MRK TY C (W) (36") (YLD TRI) (EA)	672-6009 REF PAV MRKR TY II A-A (EA)
11	FM 156	0718-01-072			2141		52060		160	5110	12120									409
12	FM 455	0816-02-087	15	5	5279		83040		128	8240	61770		83040	61770	8240					962
13	FM 1173	1059-01-049		1	5055	1750	85935	660	358	9040	82308		85935				4	4	7	818
14	FM 1830	1785-01-041	3	1	5108		70090	2640	364	7080	61315	1350		61315	7080	17	17	2		685
		SUBTOTAL	18	7	17583	1750	291125	3300	1010	29470	217513	1350	168975	123085	15320	17	21	6	7	2874
4	AS-BUILT QUA	NTITY SUBTOTALS																		

REFERENCE NUMBER	HIG	HWAY	C-S-J	672-6010 REF PAV MRKR TY II C-R (EA)	677-6001 ELIM EXT PAV MRK & MRKS (4") (LF)	678-6001 PAV SURF PREP FOR MRK (4") (LF)
11	FM	156	0718-01-072			
12	FM	455	0816-02-087			
13	FM	1173	1059-01-049	4	275	275
14	FM	1830	1785-01-041			
			SUBTOTAL	4	275	275
	4S-BU	ILT QUA	NTITY SUBTOTALS			

## *NOTE: QTY INCLUDES LENGTH NEEDED FOR CROSSWALK BARS

	Texas Department of Transportation											
<b>–</b> © 202	© 2022 DALLAS DISTRICT /2023 SEAL COAT											
DENTON COUNTY												
WORK ZONE AND												
ST	RIPI	NG	QUANTI	ΓY								
DESIGN	FED. RD. DIV. NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.								
DS GRAPHICS	6	SEE .	TITLE SHEET	US 80,ETC.								
DS												
JH TEXAS DAL KAUFMAN, ETC.												
CHECK CONTROL SECTION JOB												
	0095	03	107,ETC.	• •								

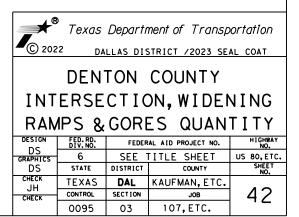
## DENTON COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY

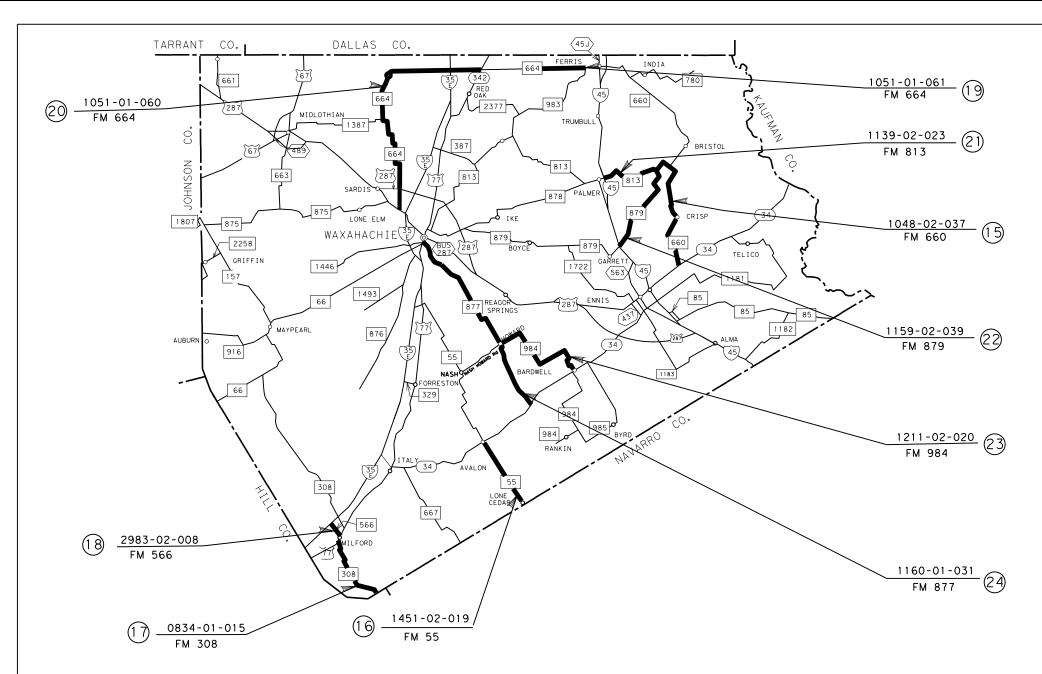
REF. # 11 FM	156	INT	ER.,WIDING	, RAMPS,C	ROSSOV. &	GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
Widening	ASPH	150	12			200
Lake shore	CONC					0
Lake shore	ASPH	18	20	7	15	47
Lloyd St	CONC					0
Lloyd St	ASPH	17	22	9	23	56
Huffman St	ASPH	22	28	18	22	88
Huffman St	ASPH	18	22	14	12	52
Hudgins St	ASPH	18	16	7	10	36
Hudgins St	ASPH	20	18	10	10	45
Widening	ASPH	24938	12			33251
FM 2450	ASPH	130	33	57	50	614
Hopkins Road	ASPH	25	44	16	20	138
Hopkins Road	ASPH	10	20	10	10	27
Rector Rd	ASPH	55	24	32	12	175
Rector Rd	ASPH	32	20	15	20	86
Austin Circle	ASPH	30	24	13	16	90
					TOTAL	34905

EF. # 12 FN	1 455	INTE	R.,WIDING,	RAMPS,CR	OSSOV. & O	GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
Indian trail rd	ASPH	56	24	36	50	240
Boom Branch Rd	ASPH	45	24	12	15	129
Widening	ASPH	4450	16			7911
Dyer Road	ASPH	28	28	23	26	116
Forester rd	ASPH	30	22	25	25	103
Freeman Rd	ASPH	33	20	17	17	87
FM 1173	ASPH	35	38	36	32	203
Atchenson Rd	ASPH	50	22	20	25	147
Atchenson Rd	ASPH	50	22	20	25	147
Phillips CT	ASPH	50	24	14	35	167
Schuster Rd	ASPH	44	22	20	20	127
Widening	ASPH	1260	4			560
Pruett Rd	ASPH	24	24	20	20	83
					TOTAL	10020

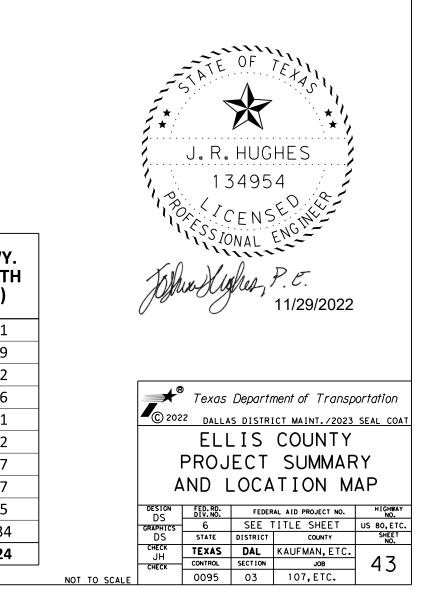
	1173				ROSSOV. & GORES QUANTITY		
INTERSECTION, WIDING,	ТҮР	LENGTH	WIDTH	R1	R2	AREA	
RAMPS, CROSSOV., GORÉS		FT	FT	FT	FT	SY	
IH35FR	ASPH			55	56	147	
Lovers Lane	ASPH	42	24	20	20	131	
Musch Branch Dr	ASPH	41	24	29	22	141	
Musch Branch Dr	ASPH	40	29	32	37	186	
Thoroughbred Rd	CONC					0	
Camden Creek Dr	ASPH	22	50	25	25	152	
Black Forest Rd	ASPH	41	26	20	20	138	
Widening	ASPH	2390	5			1328	
Night Hawk Dr	ASPH	52	29	22	20	189	
Hopkins Rd	ASPH	32	26	24	23	119	
Taper	ASPH	235	5			66	
Widening	ASPH	1440	10			1600	
Taper	ASPH	235	10			131	
Bobcat blvd	CONC					0	
Evans Ave	ASPH	23	24	20	20	80	
Taper	ASPH	300	16			267	
Widening	ASPH	575	16			1022	
Taper	ASPH	375	16			334	
Seventh St	ASPH	20	20	11	13	51	
Sixth St	ASPH	20	26	15	20	73	
Jackson St	ASPH	30	20	25	25	96	
Widening	ASPH	1325	7			1031	
Second St	ASPH	25	50			139	
Second St	ASPH	25	30	0	48	138	
3RD ST	ASPH	25	30	20	16	99	
3RD ST	ASPH	20	40	30		110	
4TH ST	ASPH	20	26	27	20	85	
4TH ST	ASPH	20	22	20	20	68	
5TH ST	CONC					0	
Clearman rd	ASPH	20	40	15	15	100	
Sixth St	ASPH	20	20	20	15	59	
Gregg Rd	ASPH	25	24	16	16	79	
Hickory Rd	ASPH	65	25	35	30	231	
Widening	ASPH	2625	17			4958	
E Odneal Rd	ASPH	20	24	20	20	72	
Hickory Rd	ASPH	25	24	20	15	82	
Freeman Rd	ASPH	32	22	25	25	108	
Plainview Rd	ASPH	22	24	20	20	78	
Barnett Rd	ASPH	22	28	15	20	83	
Donald Rd	ASPH	54	24	20	20	163	
Donald Rd	ASPH	35	22	20		95	
Flow Rd	ASPH	30	24	20	20	99	
Stice Rd	ASPH	25	20	15	20	70	
Doyle Rd	ASPH	25	20	20	20	75	
Pruett Rd	ASPH	28	24	20	20	94	
PR 3401	ASPH	60	24	20	20	179	
					TOTAL	14544	

					RES QUANTITY
TYP	LENGTH	WIDTH	R1	R2	AREA
		FT	FT	FT	SY
					1431
					278
		27			2025
	28	28	15	11	95
CONC					0
CONC					0
ASPH	300	27			450
CONC					0
ASPH	205	9			103
	500	9			500
		9			275
	2/0				0
	20	20	25	25	74
					181
					158
					133
			20	23	8254
			25	25	136
					130
					190
	00	27	10	1/	0
	210	31			362
					1378
			17	11	85
					254
			20	25	910
					595
			16	13	66
					77
					82
			15	20	307
					2928
					425
			30	30	134
					110
					245
			35	35	<u></u> 41
				<u> </u>	152
			30	30	96
	24	20	30	50	<u> </u>
	190	7		<u> </u>	70
				<u> </u>	292
					<u>292</u> 61
					<u> </u>
I ASPH	920	Z1			
CONC					0
	ASPH ASPH ASPH ASPH CONC CONC ASPH CONC	IYP         FT           ASPH         280           ASPH         185           ASPH         675           ASPH         28           CONC	IYP         FT         FT           ASPH         280         46           ASPH         185         27           ASPH         675         27           ASPH         28         28           CONC	IYP         FT         FT         FT           ASPH         280         46	IYP         FT         FT         FT         FT         FT           ASPH         280         46





					ROADW	AY LIMITS		RDWY.
REFERENCE NUMBER	HIGHWAY		C-S-J	FROM		ТО		LENGTH
NONDER				DESCRIPTION	TRM	DESCRIPTION	TRM	(MI)
15	FM	660	1048-02-037	FM 813	292+0.106	SH 34	298+1.087	6.611
16	FM	55	1451-02-019	SH 34	308-1.458	Navarro CL	310+1.164	4.729
17	FM	308	0834-01-015	US 77	314-0.063	Ellis CL	318+0.716	4.792
18	FM	566	2983-02-008	IH 35E	310-0.063	US 77	310+0.773	0.836
19	FM	664	1051-01-061	Batchler Road	600+0.235	FM 983	604+0.015	3.851
20	FM	664	1051-01-060	US 287	582+1.447	Red Oak Creek	590+0.614	7.312
21	FM	813	1139-02-023	BS 45	600+1.280	FM 660	606+0.381	5.117
22	FM	879	1159-02-039	IH 45	596+0.711	FM 813	602+0.605	5.187
23	FM	984	1211-02-020	FM 877	300-0.032	SH 34	306+0.653	6.855
24	FM	877	1160-01-031	US 77	294-0.020	SH 34	306+0.601	12.634
			· •				SUBTOTAL	57.924



N

REFERENCE NUMBER	H	WY.	C-S-J	FROM	то	MEASURED ROADWAY LENGTHS	ROADWAY WIDTHS	SEAL COAT ROADWAY AREAS	INT. RAMPS, WIDE, CROSS OVER AND GORES AREA	TOTAL AREA	ADT	AGG	ASPHALT RATE	AGG RATE	316-6454 ASPH (AC-15P, AC-20-5TR, OR AC-20XP)	316-6255 AGGR (TY-PL GR-3LW) SAC-B	316-6434 AGGR (TY-PB GR-4 OR TY-PL GR-4) SAC-B
						(FT)	(FT)	(SY)	(SY)	(SY)		(GR3 OR 4)	(GAL/SY)	(SY/CY)	(TON)	(CY)	(CY)
15	FM	660	1048-02-037	FM 813	SH 34	34307	24	91485	2134	93619	502	3	0.42	110	163.96	851	
16	FM	55	1451-02-019	SH 34	Navarro CL	22859	26	66037	4156	70193	1210	3	0.42	110	122.94	638	
17	FM	308	0834-01-015	US 77	Ellis CL	23351	30	77837	635	78472	822	3	0.42	110	137.43	713	
18	FM	566	2983-02-008	IH 35E	US 77	4089	26	11813	565	12378	906	3	0.42	110	21.68	113	
19	FM	664	1051-01-061	Batchler Road	FM 983	20314	42	94799	824	95623	7004	4	0.33	125	131.58		765
20	FM	664	1051-01-060	US 287	Red Oak Creek	35453	30	118177	2713	120890	6515	4	0.33	125	166.36		967
21	FM	813	1139-02-023	BS 45	FM 660	26851	24	71603	5705	77307	2176	3	0.42	110	135.40	703	
22	FM	879	1159-02-039	IH 45	FM 813	27505	24	73347	2241	75587	466	3	0.42	110	132.38	687	
23	FM	984	1211-02-020	FM 877	SH 34	33690	29	108557	1089	109646	121	3	0.42	110	192.03	997	
24	<b>F</b> N4	077	1100 01 001		CU 24	22432	30	74773	1462	76235	2641	3	0.42	110	133.52	693	
24	FM	877	1160-01-031	US 77	SH 34	42102	25	116950	- 1462 -	116950	3641	3	0.42	110	204.83	1063	
					-	· · · · · · · · · · · · · · · · · · ·	SUBTOTAL	905376	21522	926898		· · · · · ·			1542.11	6458	1732

## HARD CURVE MILL & INLAY QUANTITY SUMMARY

										354 6045	3077 6011	3077 6075	533-6003	533-6004
REF. #	HWY.	LATITUDE/LONGITUDE OF CURVE LOCATIONS	FROM TRM	TO TRM	LENGTH (MI.)	LENGTH (FT)	WIDTH (FT)	INTERSECTIONS (SY)	TOTAL AREA (SY)	PLANE ASPH CONC PAV (2")	SP MIXES SP-C PG64-22	TACK COAT	RUMBLE STRIPS (SHOULDER) ASPHALT	RUMBLE STRIPS (CENTERLINE) ASPHALT
										(SY)	(TON)	(GAL)	(LF)	(LF)
15	FM 660	32.437983/-96.583287	292+0.461	292+0.54	0.089	470	24	149	1402	1402	154.2	84		
15	FM 660	32.397988/-96.581486	294+1.788	294+1.823	0.036	190	24	322	829	829	91.2	50		
17 +	FM 308	32.103449/-96.939751	314+1.248	314+1.38	0.132	697	30	0	2323		292.4	180		
17 +	FM 308	32.101436/-96.940770	314+1.38	314+1.525	0.145	766	30	267	2820		347.1	209		
17 +	FM 308	32.078193/-96.912728	318+0.073	318+0.165	0.093	491	30	225	1862		241.7	152		
20*	FM 664	32.452068/-96.873928	584+0.842	584+0.957	0.114	602	30	0	2007					
20*	FM 664	32.452504/-96.877589	584+1.060	584+1.176	0.116	612	30	0	2040					
20*	FM 664	32.469319/-96.878075	586+0.264	586+0.299	0.034	180	30	259	859					
20*	FM 664	32.469684/-96.880685	586+0.379	586+0.484	0.105	554	30	0	1847					
20*	FM 664	32.477373/-96.881161	586+0.95	586+1.005	0.054	285	30	127	1077					
20*	FM 664	32.477584/-96.885122	586+1.183	586+1.224	0.041	216	30	211	931					
20*	FM 664	32.488645/-96.890631	588+0.129	588+0.247	0.117	618	30	0	2060					
21	FM 813	32.440239/-96.645986	602+0.133	602+0.244	0.111	586	24	247	1810	1810	199.1	109		
21	FM 813	32.438919/-96.603704	604+1.08	604+1.172	0.092	486	24	364	1660	1660	182.6	100		
21	FM 813	32.446607/-96.595423	604+1.792	604+1.911	0.118	623	24	419	2080	2080	228.8	125		
23*	FM 984	32.271660/-96.730555	302+1.398	302+1.489	0.091	480	29	444	1991					
23*	FM 984	32.284116/-96.704218	304+1.297	304+1.406	0.11	581	29	210	2082					
23*	FM 984	32.276994/-96.699481	304+1.883	304+1.984	0.101	533	29	0	1717					
23*	FM 984	32.275304/-96.701685	304+2.066	304+2.161	0.095	502	29	0	1618					
23	FM 984	32.268664/-96.697033	306+0.399	306+0.434	0.034	180	29	200	780	780	85.8	47		
23	FM 984	32.239010/-96.696147	306+0.466	306+0.488	0.055	290	29	120	1054	1054	115.9	63		
24	FM 877	32.376252/-96.845245	294+0.462	294+0.525	0.063	333	30	0	1110	1110	122.1	67		333
24	FM 877	32.312414/-96.790459	300+0.279	300+0.375	0.096	507	25	89	1497	1497	164.7	90		507
24	FM 877	32.313348/-96.787385	300+0.476	300+0.567	0.091	480	25	0	1333	1333	146.6	80		480
24	FM 877	32.287115/-96.769473	302+0.565	302+0.64	0.076	401	25	0	1114	1114	122.5	67		401
24	FM 877	32.286016/-96.770422	302+0.675	302+0.749	0.074	391	25	0	1086	1086	119.5	65		391
			I						SUBTOTAL	15755	2614.2	1488	0	2112

NOTE: FOR CONTRACTOR INFORMATION ONLY

1. EXCLUSIONS - AREA OF CONCRETE SECTON, BRIDGES AND WIDENINGS: REF. #15, FM 660 CSJ: 1048-02-037, BRIDGE SECT. : L= 220' LF REF. #16, FM 55 CSJ: 1451-02-019, BRIDGE SECT. : L= 1000+60+60= 1120 LF REF. #21, FM 813 CSJ: 1139-02-023, BRIDGE SECT. : L= 360+100+120+120= 800 LF REF. #22, FM 879 CSJ: 1159-02-039, BRIDGE SECT. : L= 380+95= 475 LF 2- ASSUME ASPHALT WEIGHT OF 8.34 LBS/GAL FOR BASIS OF ESTIMATE 3- ASPHALT RATE SHOWN IS FOR BID PURPOSES ONLY

ACTUAL RATE WILL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER 4- STOCK PILE LOCATIONS ARE FOR CONTRACTORS INFORMATION 5- ALL STOP BARS AND STRIPING ON CONCRETE SECTIONS AND CONCRETE INTERSECTIONS MUST BE REMOVED AND REPLACED.

STOCKPILE LOCATION	STOCKPILE LOCATION	STOCKPILE LOCATION
REF #15 LONGITUDE LATITUDE	REF #16 LONGITUDE LATITUDE	REF #17 LONGITUDE LATITUDE
FM 660 -96.588697 32.442495	FM 55 -96.752401 32.150629	FM 308 -96.944041 32.113094
STOCKPILE LOCATION	STOCKPILE LOCATION	STOCKPILE LOCATION
REF #18 LONGITUDE LATITUDE	REF #19 LONGITUDE LATITUDE	REF #20 LONGITUDE LATITUDE
FM 566 _96.952497 32.132066	FM 664 -96.732441 32.529568	FM 664 -96.873439 32.434772
STOCKPILE LOCATION	STOCKPILE LOCATION	STOCKPILE LOCATION
REF #21 LONGITUDE LATITUDE	REF #22 LONGITUDE LATITUDE	REF #23 LONGITUDE LATITUDE
FM 813 -96.658147 32.433679	FM 879 -96.603903 32.438718	FM 984 -96.770342 32.291141
STOCKPILE LOCATION		
REF #24 LONGITUDE LATITUDE		
FM 877 -96.749534 32.245419		
		Texas Department of Transportation
		C 2022 DALLAS DISTRICT MAINT./2023 SEAL COAT
		ELLIS COUNTY
		QUANTITY SUMMARY
		DESIGN FED.RD. FEDERAL AID PROJECT NO. HIGHWAY DS DIV.NO. FEDERAL AID PROJECT NO. NO.
T IN PLACE FOR THE LIMITS OF TH	E CLIBVE AS-IS	GRAPHICS 6 SEE TITLE SHEET US 80, ETC.

* THE ABOVE NOTED CURVES ARE OMITTED FROM THE SEAL COAT WORK AND WILL NOT BE MILLED & INLAYED; THE EXISTING ASPHALT PAVEMENT WILL BE LEFT IN PLACE FOR THE LIMITS OF THE CURVE AS-IS.

+ FM 308 WILL NOT BE PLANED; A 2" OVERLAY WILL BE INSTALLED OVER THE EXISTING PAVEMENT AT THE ABOVE IDENTIFIED LOCATIONS AND THEIR PROPSOED LIMITS. ADDITIONALLY, A 100FT TAPER WILL BE INSTALLED AT EACH LIMIT FOR EVERY LOCATION, TAPERING THE 2" OVERLAY DOWN TO THE EXISITING GRADE.

DESIGN DS	FED.RD. DIV.NO.	FEDER	HİGHWAY NO,	
GRAPHICS	6	SEE .	TITLE SHEET	US 80,ETC.
DS	STATE	DISTRICT	COUNTY	SHEET NO.
снеск ЈН	TEXAS	DAL	KAUFMAN, ETC.	
CHECK	CONTROL	SECTION	JOB	44
	0095	03	107,ETC.	•••

# ELLIS COUNTY WORK ZONE & PERMANENT PAVEMENT MARKINGS

REFERENCE NUMBER	HIGH	IWAY	C-S-J	560-6011 MAILBOX INSTALL-S (TWW-POST) TY 4	560-6012 MAILBOX INSTALL-D (TWW-POST) TY 5	662-6111 WRK ZN PAV MRK SHT TERM (TAB) TY Y-2	666-6167 REF PAV MRK TY II (W) 4" (BRK)	666-6174 REF PAV MRK TY II (W) 6" (SLD)	666-6178 REF PAV MRK TYII (W) 8" (SLD)	666-6182 REF PAV MRK TY II (W) 24" (SLD) *	666-6205 REF PAV MRK TY II (Y) 4" (BRK)	666-6207 REF PAV MRK TY II (Y) 4" (SLD)	666-6441 RE PROF PM (W)4"(SLD) RAISD PROF ONLY	666-6442 RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	666-6443 RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	668-6077 PREFAB PAV MRK TY C (W) (ARROW)	668-6085 PREFAB PAV MRK TY C (W) WORD
				(EA)	(EA)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)
15	FM	660	1048-02-037	1		3540		70158		70	2760	56327	70158	56327	2760		
16	FM	55	1451-02-019			2510		59090		50	3570	30918	59090	30918	3570		
17	FM	308	0834-01-015			2530		56942		76	3950	23281	56942	23281	3950		
18	FM	566	2983-02-008			408		7993		22		8378	7993	8378			
19	FM	664	1051-01-061			2032		40303	518	126	2180	26510	40303			3	3
20	FM	664	1051-01-060	3		3852		76172	145	392	5900	41668	76172			2	2
21	FM	813	1139-02-023			2934		58001		100	9170	49758	58001	49758	9170		
22	FM	879	1159-02-039	30	3	2798		55481		40	4190	32225	55481	32225	4190		
23	FM	984	1211-02-020			3626		72065		120	4970	44460	72065	44460	4970		
24	FM	877	1160-01-031	45	2	6664	50	132507		226	8510	85809	132507				
	•		SUBTOTAL	79	5	30894	50	628712	663	1222	45200	399334	628712	245347	28610	5	5
A	S-BUI		NTITY SUBTOTALS														

REFERENCE NUMBER	HIGHWAY				C-S-J	668-6089 PREFAB PAV MRK TY C (W) (RR-XING) (LF)	668-6092 PREFAB PAV MRK TY C (W) (36") (YLD TRI) (EA)	672-6009 REF PAV MRKR TY II A-A (EA)	677-6001 ELIM EXT PAV MRK & MRKS (4") (LF)	678-6001 PAV SURF PREP FOR MRK (4") (LF)
15	FM	660	1048-02-037			885	880	880		
16	FM	55	1451-02-019			627				
17	FM	308	0834-01-015			633				
18	FM	566	2983-02-008			408				
19	FM	664	1051-01-061			508				
20	FM	664	1051-01-060			963				
21	FM	813	1139-02-023		6	734	3200	3200		
22	FM	879	1159-02-039			700	1900	1900		
23	FM	984	1211-02-020	2		906				
24	FM	877	1160-01-031			1666				
			SUBTOTAL	2	6	8030	5980	5980		
A	S-BUIL		NTITY SUBTOTALS							

## *NOTE: QTY INCLUDES LENGTH NEEDED FOR CROSSWALK BARS

<b>A</b>	Texas Department of Transportation											
C 2022 DALLAS DISTRICT MAINT./2023 SEAL COAT												
ELLIS COUNTY												
WORK ZONE AND												
S	TRIP	ING	QUANTI	ΤY								
DESIGN DS	FED. RD. DIV. NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.								
GRAPHICS	6	SEE	TITLE SHEET	US 80,ETC.								
DS	STATE	DISTRICT	COUNTY	SHEET NO.								
	CHECK TEXAS DAL KALIEMAN ETC.											
CHECK												
	0095	03	107,ETC.									

## ELLIS COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY RFF. # 16

REF. # 15 FM	660	INTER.,WI	INTER.,WIDING, RAMPS,CROSSOV. & GORES QUANTITY						
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY			
TAPER	ASPH	136	25			189			
WIDENING	ASPH	398	25			1106			
TAPER	ASPH	158	25			220			
CRISP ROAD	ASPH	32	16	10	12	63			
CRISP ROAD	ASPH	34	20	10	10	80			
SHANKLE ROAD	ASPH	31	20	18	20	86			
NOVY ROAD	ASPH	28	20	20	20	81			
EMIL LN	CONC					0			
UNION HILL RD	ASPH	78	20	14	10	180			
UNION HILL RD	ASPH	38	20	10	12	90			
GLASPY ROAD	ASPH	20	10	24	12	39			
					TOTAL	2134			

٦											
·	REF. # 16 FM	REF. # 16 FM 55			INTER., WIDING, RAMPS, CROSSOV. & GORES QUANTITY						
	INTERSECTION, WIDING,	ТҮР	LENGTH	WIDTH	R1	R2	AREA				
	RAMPS, CROSSOV., GORES		FT	FT	FT	FT	SY				
	OLD BLOOMING GR RD	ASPH	60	20	17	24	154				
	GOODWIN ROAD	ASPH	31	20	25	21	94				
	TEES ROAD	ASPH	45	20	34	21	138				
	WIDENING	ASPH	6250	2			1389				
	TAPER	ASPH	60	21			70				
	WIDENING	ASPH	885	21			2065				
	TAPER	ASPH	70	21			82				
	BUNKEY LANE	ASPH	27	20	18	14	72				
	SHERRY LANE	ASPH	30	20	25	21	92				
	BERRY ROAD	GRAVEL					0				
						TOTAL	4156				

REF. • 18 FM	566		WIDING,	RAMPS,	CROSSOV.	& GORES QUANTITY
INTERSECTION, WIDING, RAMPS,	TYP	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
N ELM ST	ASPH	35	20	25	25	108
W CROSS MAIN ST	ASPH	83	35	30	21	355
W CROSS MAIN ST	ASPH	55	16	13	Ø	102
			•		TOTAL	565

REF. # 21 FM	813	INTER.,WI	DING, RAN	IPS,CROSSO	OV. & GORE	S QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
FM 660	ASPH	35	24	20	36	134
SUGAR RIDGE RD	ASPH	30	20	10	11	72
SUGAR RIDGE RD	ASPH	20	47	13	14	113
FM 879	ASPH	72	40	41	31	383
TAPER	ASPH	140	22			171
WIDENING	ASPH	1245	22			3043
TAPER	ASPH	195	22			239
OATES	ASPH	28	20	41	25	117
NECK RD	ASPH	66	22	36	38	227
TAPER	ASPH	235	14			183
WIDENING	ASPH	520	14			809
TAPER	ASPH	140	14			109
45 N FR	CONC					0
45 N FR	CONC					0
E LAMAR ST	ASPH	25	20	14	20	70
MCINTOSH ST	ASPH	16	16	12	12	35
BS 45	CONC					0
					TOTAL	5705

REF. # 22 FM	879	INTER.,W	DING, RAN	1PS,CROSSO	OV. & GORE	S QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH	WIDTH	R1	R2	AREA
		FT	FT	FT	FT	SY
IH 45 FR	ASPH			25	41	55
WIDENING	ASPH	580	24			1547
TAPER	ASPH	150	17			142
EASON RD	ASPH	35	20	36	17	116
PARKER HILL RD	ASPH	25	20	31	21	89
SHANKLE RD	ASPH	38	20	30	37	139
SUGAR HILL RD	ASPH	26	20	14	30	84
FM 813	ASPH			37	39	69
					TOTAL	2241

REF. • 19 FM	664	INTER.	.WIDING.	RAMPS	CROSSOV	. & GORES QUANTITY
INTERSECTION, WIDING, RAMPS,	TYP	LENGTH FT	WIDTH FT	R1 FT	R2 F T	AREA SY
EWING ST	CONC					Ø
JIMMIC BIRDWELL BL	CONC					Ø
ROLLING HILLS DR	ASPH	32	24	12	16	95
ROLLING HILLS DR	CONC					Ø
WIDENING	ASPH	1327	2			295
SHAW CREEK BLVD	CONC					Ø
FEMS RD	ASPH	17	50	16	24	114
TANNER FARM RD	ASPH	33	32	18	20	135
BLUFF SPRINGS RD	ASPH	30	24	16	16	92
HILL RD	ASPH	30	24	17	16	93
					TOTAL	824

	664		DING, RAMP			
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
WIDENING	ASPH	335	20			744
TAPER	ASPH	115	30			192
TAPER	ASPH	85	13			62
WIDENING	ASPH	230	13			332
OREGON TRL	CONC					0
VALLEY VIEW DR	CONC					0
ZANDER DR	CONC					0
OVILLA DR	CONC					0
MARSHALL RD	ASPH	30	24	23	21	103
WESTMORE LAND RD	ASPH	38	24	29	6	122
BOB WHITE LANE	ASPH	40	21	23	6	107
BOB WHITE RD	ASPH	45	24	30	10	144
STONE WALL DR	CONC					0
MASON LANE	CONC					0
MEGHANN LN	CONC					0
FM 1387	ASPH	26	34	28	25	132
MAVISAVE	CONC					0
SOUTH GATE DR	CONC					0
ARMSTRONG WAY	CONC					0
W HIGHLAND RD	ASPH	30	26	24	42	142
GLEN EAGLES RD	CONC					0
HI VIEW DR	ASPH	24	20	24	23	80
MIRANDA WAY	CONC					0
CLARK CT	CONC					0
E HIGHLAND RD	ASPH	26	34	24	22	123
KAY RD	GRAVEL					0
SLIPPERY CREEK ST	ASPH	26	24	17	20	86
WOOD STREAM RD	CONC					0
GERRY LN	GRAVEL					0
OVILLA DRD	ASPH	40	20	10	16	97
SHILOH RD	ASPH	26	36	24	26	134
CUMBERLAND DR	CONC					0
HIGH VIEW CT	ASPH	22	24	22	18	78
OVILLA OAKS DR	CONC					0
DUSTY OAKS TRL	ASPH	15	16	15	13	36
			I		TOTAL	2713

REF. = 17 FM	308	INTER.	.WIDING.	RAMPS,	CROSSOV	. & GORES QUANTITY
INTERSECTION.	TVO	LENGTH	WIDTH	Rl	R2	AREA
WIDING, RAMPS, CROSSOV., GORES	TYP	FT	FT	FT	FT	SY
LEE ROAD	ASPH	30	24	23	21	103
RICHLAND BEND ROAD	ASPH	43	20	27	24	127
MARBLE LANE	ASPH	42	24	25	18	135
WEBB ST	ASPH	30	20	20	20	86
BOIS D'ARC RD	ASPH	33	20	22	20	94
PECAN ST	ASPH	35	20	10	20	90
US 77	CONC					Ø
					TOTAL	635

REF. = 17

SHEET 1 OF 2

Texas Department of Transportation											
C 2022 DALLAS DISTRICT MAINT./2023 SEAL COAT											
ELLIS COUNTY											
INT	INTERSECTION, WIDENING										
RAN	1PS &	GOR	ES QUAN	TITY							
DESIGN	FED. RD. DIV. NO.	FEDER	AL AID PROJECT NO.	HİGHWAY NO,							
GRAPHICS	6	SEE 1	TITLE SHEET	US 80,ETC.							
DS	STATE	DISTRICT	COUNTY	SHEET NO,							
СНЕСК ЈН	TEXAS	DAL	KAUFMAN, ETC.								
CHECK	CONTROL	SECTION	JOB	46							
	0095	03	107,ETC.	. •							

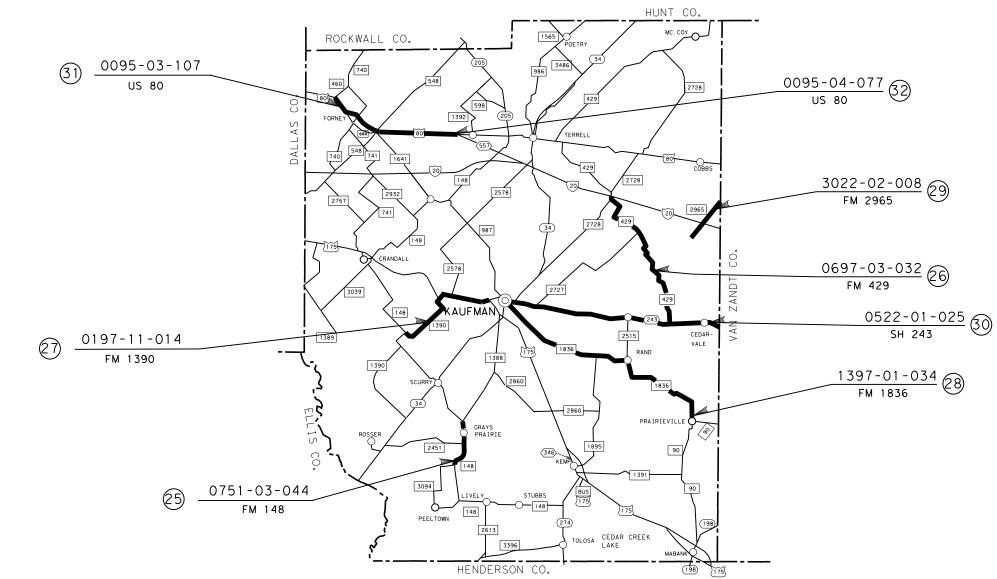
# ELLIS COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY

REF. # 23 FM	984	INTER.,WID	DING, RAMI	PS,CROSSO	V. & GORES	QUANTITY
INTERSECTION, WIDING,	ТҮР	LENGTH	WIDTH	R1	R2	AREA
RAMPS, CROSSOV., GORES		FT	FT	FT	FT FT	SY
GETZENDANER RD	ASPH	30	28	40	32	156
WALKER RD	GRAVEL					0
BACAK RD	ASPH	43	17			81
BACAK RD	ASPH	30	26	13	14	95
SLOVAK RD	ASPH	24	20	20	20	72
ROACH RD	ASPH	24	20	20	14	68
OLD PARK RD	ASPH	42	20	28	20	122
ASH RD	ASPH	27	16	16	17	61
LOCUST ST	GRAVEL					0
BUCHHOLZ AVE	ASPH	58	28	25	20	205
ENNIS ST	GRAVEL					0
MAIN ST	ASPH	50	37			206
COMMERCE ST	GRAVEL					0
COMMERCE ST	ASPH	10	16	6	13	23
ELM ST	GRAVEL					0
					TOTAL	1089

REF. # 24 FM	877	INTER.,W	DING, RAN	IPS,CROSSC	OV. & GORE	S QUANTITY
INTERSECTION, WIDING,	ТҮР	LENGTH	WIDTH	R1	R2	AREA
RAMPS, CROSSOV., GORES	116	FT	FT	FT	FT	SY
LONG BRANCH CIRCLE	GRAVEL					0
BACAK RD	ASPH	45	24	28	30	160
LONG BRANCH CIRCLE	GRAVEL					0
NASH HOWARD RD	ASPH	26	46	34	15	166
FM 984 S	ASPH	37	35	27	41	201
JENKINS RD	ASPH	9	16	11	10	21
WEST RD	ASPH	24	24	18	18	79
PIGG RD	ASPH	32	24	25	26	116
HUNTER PASS RD	CONC					0
LAKE SHORE DR	ASPH	26	28	15	19	95
LAKE SHORE DR	ASPH	20	25	16	17	69
ASH DR	ASPH	92	16	12		167
LIONS PARK RD	ASPH	26	24	14	16	80
OLD ITALY RD	ASPH	45	24	14	16	131
MATTHEW ST	CONC					0
S COLLEGE ST	CONC					0
S COLLEGE ST	ASPH	20	33	22	18	93
WIDENING	ASPH	188	4			84
					TOTAL	1462

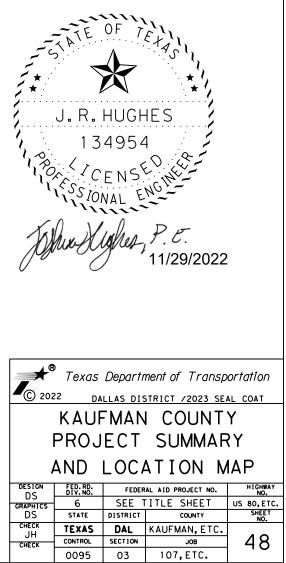
SHEET 2 OF 2

	) Texas	Departr	ment of Transp	ortation
<b>C</b> 202	2 DALLA	S DISTRI	CT MAINT./2023	SEAL COAT
	E	LLIS	5 COUNTY	/
INT	ERSE	CTIC	ON, WIDEN	NING
RAN	/IPS &	GOR	ES QUAN	TITY
DESIGN	FED. RD. DIV. NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO,
GRAPHICS	6	SEE 1	ITLE SHEET	US 80,ETC.
DS	STATE	DISTRICT	COUNTY	SHEET NO.
снеск ЈН	TEXAS	DAL	KAUFMAN, ETC.	
CHECK	CONTROL	SECTION	JOB	47
	0095	03	107,ETC.	••



					ROADV	VAY LIMITS		RDWY.	
REFERENCE NUMBER	HIGH	IWAY	C-S-J	FROM		ТО		LENGTH	
NOWIDER				DESCRIPTION	TRM	DESCRIPTION	TRM	(MI)	
25	FM	148	0751-03-044	FM 1388	294+0.869	FM 3094 N	298+0.060	3.122	
26	FM	429	0697-03-032	IH 20	278+0.333	SH 243	286+2.000	9.527	
27	FM	1390	0197-11-014	US 175	278-0.169	FM 148	282+0.259	4.345	
28	FM	1836	1397-01-034	SH 34	616-0.087	FM 90	632+0.064	15.169	
29	FM	2965	3022-02-008	VAN ZANDT CL	272+0.015	Hiram Rd	274+0.745	2.654	
30	SH	243	0522-01-025	E of SH 34	614+1.438	VAN ZANDT CO. LINE	630+0.091	13.144	
31	US	80	0095-03-107	FM 460	672+1.882	E OF FM 548	676+1.410	3.494	
32	US	80	0095-04-077	E OF FM 548	676+1.424	Spur 557	682+0.509	5.009	
					•		SUBTOTAL	56.464	

1397-01-034 FM 1836



L N

REFERENCE NUMBER	HWY.	C-S-J	FROM	то	MEASURED ROADWAY LENGTHS (FT)	ROADWAY WIDTHS (FT)	SEAL COAT ROADWAY AREAS (SY)	INT. RAMPS, WIDE, CROSS OVER AND GORES AREA (SY)	TOTAL AREA (SY)	ADT	AGG (GR3 OR 4)	ASPHALT RATE (GAL/SY)	AGG RATE (SY/CY)	316-6454 ASPH (AC-15P, AC-20-5TR, OR AC-20XP (TON)	316-6255 AGGR (TY-PL GR-3LW) SAC-B (CY)	316-6434 AGGR (TY-PB GR-4 OR TY-PL GR-4) SAC-B (CY)
25	FM 148	0751-03-044	FM 1388	FM 3094 N	15926	29	51317	1618	52935	4222	3	0.42	110	92.71	481	
26	FM 429	0697-03-032	IH 20	SH 243	48900	29	157567	1820	159387	2397	3	0.42	110	279.15	1449	
27	FM 1390	0197-11-014	US 175	FM 148	21796	29	70232	1100	71332	2312	3	0.42	110	124.93	648	
28	FM 1836	1397-01-034	SH 34	FM 90	79490	29	256134	7425	263559	3125	3	0.42	110	461.60	2396	
29	FM 2965	3022-02-008	VAN ZANDT CL	Hiram Rd	12455	24	33213	2162	35375	2360	3	0.42	110	61.96	322	
30	SH 243	0522-01-025	E of SH 34	VAN ZANDT CO. LINE	68755	29	221544	11043	232587	2748	3	0.42	110	407.35	2114	
21		0005 02 107			EB 12190	30	40633	6557	47190	- 58941	4	0.22	125	125.20		720
31	US 80FR	0095-03-107	FM 460	E OF FM 548	WB 240	33	880	1385	43918	58941	4	0.33	125	125.38		729
					WB 12496	30	41653	1385	43918							
32	US 80FR	0095-04-077	E OF FM 548	Spur 557	EB 20475	29	65975	6089	72064	40973	4	0.33	125	199.04		1157
52	03 80FK	0095-04-077	E UF FIVI 548	Spur 557	WB 20623	29	66452	6125	72577	40973	4	0.55	125	159.04		1157
						SUBTOTA	L 1005601	45324	1050925					1752.12	7410	1886

### NOTE: FOR CONTRACTOR INFORMATION ONLY

1- EXCLUSIONS - AREA OF CONCRETE SECTON, BRIDGES AND WIDENINGS:

REF. 27 FM 1390, CSJ: 0197-11-014, BRIDGE SECT.: L= 326'

REF. 28 FM 1836 CSJ: 1397-01-034, BRIDGE SECT.: L= 160'+180'+190'+210'; LEAVE-OUT SECT.: L=3500' (SH34 TO MELODY DR)

REF. 29 FM 2965 CSJ: 3022-02-008, BRIDGE SECT.: L=1695' (N. IH-20 INTER. TO S. IH-20 INTER.)

REF. 31 US 80FR EB & WB CSJ: 0095-03-107, LEAVE-OUT SECT.: L=400' (CL OF FM 460 TO 400' E. OF FM 460)

REF. 32 US 80FR EB CSJ: 0095-04-077, CONC. SECT.: L=415' & BRIDGE SECT.: L=1590'

REF. 32 US 80FR WB CSJ: 0095-04-077, CONC. SECT.: L=120'+100'+100'+445' & BRIDGE SECT.: L=1305'

2- ASSUME ASPHALT WEIGHT OF 8.34 LBS/GAL FOR BASIS OF ESTIMATE

3- ASPHALT RATE SHOWN IS FOR BID PURPOSES ONLY

ACTUAL RATE WILL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER

4- STOCK PILE LOCATIONS ARE FOR CONTRACTORS INFORMATION

5- ALL STOP BARS AND STRIPING ON CONCRETE SECTIONS AND CONCRETE INTERSECTIONS MUST BE REMOVED AND REPLACED.

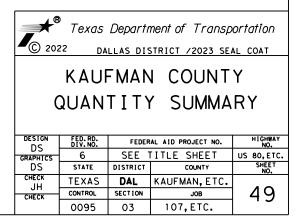
STO	OCKPILE LOCA	TION	ST	OCKPILE LOCA	TION	S	TOCKPILE LOCA	TION	ST	OCKPILE LOCA	TION
REF #25	LONGITUDE	LATITUDE	<b>REF #26A</b>	LONGITUDE	LATITUDE	REF #26B	LONGITUDE	LATITUDE	REF #27	LONGITUDE	LATITUDE
FM 148	-96.359699	32.437881	FM 429	-96.186432	32.672619	FM 429	-96.140806	32.613971	FM 1390	-96.410304	32.559509
					]						
ST	OCKPILE LOCA	TION	ST	OCKPILE LOCA	ATION	ST	OCKPILE LOCA	ATION	S1	OCKPILE LOCA	TION
REF #28A	LONGITUDE	LATITUDE	REF #28B	LONGITUDE	LATITUDE	REF #29	LONGITUDE	LATITUDE	REF #30A	LONGITUDE	LATITUDE
FM 1836	-96.103671	32.479916	FM 1836	-96.210649	32.542073	FM 2965	-96.092886	32.657004	SH 243	-96.289451	32.587795
STO	OCKPILE LOCA	TION	ST	OCKPILE LOCA	TION	ST	FOCKPILE LOCA	TION	ST	OCKPILE LOCA	
REF #30B	LONGITUDE	LATITUDE	REF #31A	LONGITUDE	LATITUDE	REF #31B	LONGITUDE	LATITUDE	REF #32A	LONGITUDE	LATITUDE
SH 243	-96.159518	32.572802	US 80	-96.488438	32.76871	US 80	-96.467353	32.756515	US 80	-96.446862	32.741292
ST	OCKPILE LOCA	TION	ST	OCKPILE LOCA	TION	S	TOCKPILE LOCA	ATION	7		
REF #32B	LONGITUDE	LATITUDE	REF #32C	LONGITUDE	LATITUDE	REF #32D	LONGITUDE	LATITUDE	]		
US 80	-96.409094	32.739957	US 80	-96.370969	32.739962	US 80	-96.417978	32.741071			

## HARD CURVE MILL & INLAY QUANTITY SUMMARY

										354 6045	3077 6011	3077 6075	533-6003	533-6004
REF. #	HWY.	LATITUDE/LONGITUDE OF CURVE LOCATIONS	FROM TRM	TO TRM	LENGTH (MI.)	LENGTH (FT)	WIDTH (FT)	INTERSECTIONS (SY)	TOTAL AREA (SY)	PLANE ASPH CONC PAV (2")	SP MIXES SP-C PG64-22	TACK COAT	RUMBLE STRIPS (SHOULDER) ASPHALT	RUMBLE STRIPS (CENTERLINE) ASPHALT
										(SY)	(TON)	(GAL)	(LF)	(LF)
26	FM 429	32.672647/-96.186616	278+0.948	278+1.053	0.105	554	29	200	1985	1985	218.4	119	1108	554
26	FM 429	32.664984/-96.194354	278+1.611	278+1.792	0.181	956	29	128	3208	3208	352.9	192	1912	956
27	FM 1390	32.589431/-96.379873	278+0.389	278+0.452	0.063	333	29	150	1223	1223	134.5	73		
27	FM 1390	32.582317/-96.372195	278+1.046	278+1.151	0.105	554	29		1785	1785	196.4	107		
27	FM 1390	32.559309/-96.410307	282+0.203	282+0.288	0.074	391	29		1260	1260	138.6	76		
31	US 80 EB	32.744525/-96.452892	676+0.305	676+0.907	0.603	3184	32	939	12260	12260	1348.6	736		
31	US 80 WB	32.745485/-96.453007	676+0.412	676+0.887	0.475	2508	33	1473	10669	10669	1173.6	640		
32	US 80 EB	32.742341/-96.446301	676+0.986	676+1.226	0.24	1267	29	3013	7096	7096	780.6	426		
32	US 80 WB	32.741663/-96.447074	676+0.971	676+1.266	0.296	1563	29	1311	6347	6347	698.2	381		
									SUBTOTAL	45833	5041.8	2750	3020	1510

NOTE: US 80 MILL & INLAY WORK IS LOCATED ON THE APPROCAH & DEPARTURE TO FM 548 FOR BOTH THE EASTBOUND & WESTBOUND FRONATGE ROADS.

THE LIMITS ARE FROM THE ON/OFF RAMPS OF US 80, TO THE EXISTING CONCRETE SECTION AT FM 548. THE MILL & INLAY WILL INCLUDE THE AREA OF THE RAMPS UPTO THEIR CURRENT EXISTING PAVEMENT JOINT.



## KAUFMAN COUNTY WORK ZONE & PERMANENT PAVEMENT MARKINGS

REFERENCE NUMBER	HIGHWAY	C-S-J	560-6011 MAILBOX INSTALL-S (TWW-POST) TY 4	662-6109 WRK ZN PAV MRK SHT TERM (TAB) TY W	662-6111 WRK ZN PAV MRK SHT TERM (TAB) TY Y-2	666-6167 REF PAV MRK TY II (W) 4" (BRK)	666-6174 REF PAV MRK TY II (W) 6" (SLD)	666-6178 REF PAV MRK TYII (W) 8" (SLD)	666-6180 REF PAV MRK TY II (W) 12" (SLD)	666-6182 REF PAV MRK TY II (W) 24" (SLD) *	666-6205 REF PAV MRK TY II (Y) 4" (BRK)	666-6207 REF PAV MRK TY II (Y) 4" (SLD)	666-6212 REF PAV MRK TY II (Y) 12" (SLD)	666-6441 RE PROF PM (W)4"(SLD) RAISD PROF ONLY	666-6442 RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	666-6443 RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	668-6077 PREFAB PAV MRK TY C (W) (ARROW)	668-6085 PREFAB PAV MRK TY C (W) WORD	668-6092 PREFAB PAV MRK TY C (W) (36") (YLD TRI)	672-6007 REF PAV MRKR TY I C	672-6009 REF PAV MRKR TY II A-A
			(EA)	(EA)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(EA)	(EA)
25	FM 148	0751-03-044	4	40	1162		31347	60		84	2550	7950					2	2		12	282
26	FM 429	0697-03-032	3		5116		99582			212	6050	66018									1310
27	FM 1390	0197-11-014	3		2245		46318			102	3330	24942		46318	24942	3330					558
28	FM 1836	1397-01-034	3	104	7968		159361	122		250	11070	92945		159361	92945	11070	1	1	20	26	1920
29	FM 2965	3022-02-008		138	1678		27694	540		132	2430	14215	220	27694	14215	2430	3			108	352
30	SH 243	0522-01-025	5	586	7207		135392	1925		334	13160	65148	1151	135392			11	9		386	1722
31	US 80FR	0095-03-107	2	2672	1575	6870	31888	2951	1062	168		31507	868	31888	31507		2	2		90	790
32	US 80FR	0095-04-077		2557	2521	8520	58285	8705	418	1086	1590	46475	934	58285	46475	1590	27	25	24	170	1097
	•	SUBTOTAL	. 20	6097	29472	15390	589867	14303	1480	2368	40180	349200	3173	458938	210084	18420	46	39	44	792	8031
	AS-BUILT QUA	ANTITY SUBTOTAL																			

REFERENCE NUMBER	HIGHWAY	C-S-J	672-6010 REF PAV MRKR TY II C-R (EA)	677-6001 ELIM EXT PAV MRK & MRKS (4") (LF)	677-6003 ELIM EXT PAV MRK & MRKS (8") (LF)	677-6007 ELIM EXT PAV MRK & MRKS (24") (LF)	677-6008 ELIM EXT PAV MRK & MRKS (ARROW) (LF)	677-6012 ELIM EXT PAV MRK & MRKS (WORD) (LF)	677-6019 ELIM EXT PAV MRK & MRKS (36") (YLD TRI) (LF)	678-6001 PAV SURF PREP FOR MRK (4") (LF)	678-6004 PAV SURF PREP FOR MRK (8") (LF)	678-6008 PAV SURF PREP FOR MRK (24") (LF)	678-6009 PAV SURF PREP FOR MRK (ARROW) (LF)	678-6016 PAV SURF PREP FOR MRK (WORD) (LF)	678-6023 PAV SURF PREP FOR MRK (36") (YLD TRI) (LF)
25	FM 148	0751-03-044													
26	FM 429	0697-03-032													
27	FM 1390	0197-11-014		1304						1304					
28	FM 1836	1397-01-034		2960						2960					
29	FM 2965	3022-02-008		1680						1680					
30	SH 243	0522-01-025													
31	US 80FR	0095-03-107	407												
32	US 80FR	0095-04-077	425	6985	2590	511	27	25	18	6985	2590	511	27	25	18
		SUBTOTAL	832	12929	2590	511	27	25	18	12929	2590	511	27	25	18
	AS-BUILT QUA	ANTITY SUBTOTAL													

*NOTE: QTY INCLUDES LENGTH NEEDED FOR CROSSWALK BARS

	Texas Department of Transportation												
<b>–</b> © 202	© 2022 DALLAS DISTRICT/2023 SEAL COAT												
S	WOR	K Z	I COUNT ONE AND QUANT]	)									
DESIGN DS	FED.RD. DIV.NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.									
GRAPHICS	6	SEE T	ITLE SHEET	US 80,ETC.									
DS	STATE	DISTRICT	COUNTY	SHEET NO,									
СНЕСК ЈН	TEXAS	DAL	KAUFMAN, ETC.										
CHECK	CONTROL	SECTION	JOB	50									
	0095	03	107,ETC.										

# KAUFMAN COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY

REF. • 25 FM	148	INTER.,	WIDING.	RAMPS, (	CROSSOV.	& GORES QUANTITY
INTERSECTION, WIDING,		LENGTH	WIDTH	R1	R2	AREA
RAMPS, CROSSOV., GORE'S	ΤYΡ	FT	FT	FT	FT	SY
DICKEY LN	ASPH	25	16	17	18	59
HATZ LN	ASPH	25	20	17	15	68
CR 4080	ASPH	25	16	15	16	56
CR 4062	ASPH	35	20	28	24	110
FM 2451	ASPH	58	47	55	48	430
TURN LANE WIDENING	ASPH	1235	5			686
CR 4061	ASPH	30	30	26	20	126
SMOKE LN	ASPH	30	20	20	17	83
					TOTAL	1618

REF. • 26 FM	429	INTER.,	WIDING,	RAMPS, C	ROSSOV.	& GORES QUANTITY
INTERSECTION, WIDING,	THE	LENGTH	WIDTH	RI	R2	AREA
RAMPS, CROSSOV., GORES	TYP	FT	FT	FT	FT	SY
KC 130	ASPH	33	32	27	26	151
KC 131	ASPH	33	24	30	23	122
SUE ANN LN	ASPH	30	24	33	27	123
KC 129	ASPH	25	20	23	30	90
KC 132	ASPH	25	20	34	25	98
FM 2727	ASPH	20	38	39	39	157
KC 125	GRVL					Ø
KC 133	ASPH	43	24	43	25	174
KC 124	ASPH	34	24	20	24	114
KC 123	ASPH	44	24	27	34	162
KC 121	ASPH	26	24	50	32	153
KC 121	ASPH	30	20	16	14	77
OPAL LN	ASPH	24	24	15	16	75
KC 104	ASPH	30	20	20	26	92
BETTY LN	ASPH	25	24	23	26	95
KC 118	ASPH	25	24	20	20	86
SH 243	ASPH			35	30	51
					TOTAL	1820

REF. # 29	FM 2965	2965 INTER.,WIDING, R/			/IPS,CROSSO	V. & GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
ANTIOCH RD	CONC					0
ST. THOMAS WAY	CONC					0
AUTUMN RD	CONC					0
TURN LANE WIDENING	ASPH	1213	12			1617
IH-20 N. FR INTERSECTION	CONC					0
IH-20 S. FR INTERSECTION	CONC					0
KC 171	ASPH	32	16	28	26	92
CLEARWATER RANCH RD	ASPH	34	20	40	25	129
HIRAM RD	ASPH	65	24	60	52	324
	·				TOTAL	2162

REF. = 27 FM	1390	INTER.,	WIDING,	RAMPS, (	CROSSOV.	& GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ΤYP	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
US 175 FR	ASPH			24	26	30
US 175 FR	ASPH	35	30	23	20	139
US 175 FR	ASPH	26	30	26	20	112
CR 4106	ASPH	62	18	5	15	130
CR 4106	ASPH	70	18	13	5	145
OLD HWY 175	CONC					Ø
CR 4116	ASPH	66	28	10	26	224
CR 4101	ASPH	34	24	15	16	102
CR 4100	ASPH	44	24	15	17	130
CR 4095	ASPH	36	20	Ø	18	88
					TOTAL	1100

	1243		WIDING,	RAMPS,		& GORES QUANT!
NTERSECTION, WIDING, MPS, CROSSOV., GORES	ΤYP	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
HARPER ST	ASPH	24	16	16	16	55
3rd ST	ASPH	24	20	15	15	64
MARSHALL ST	ASPH	40	24	47	23	172
4th ST	ASPH	37	24	20	24	122
OLA RD	ASPH	145	47	100	75	1130
OLA RD	ASPH	115	24	15	Ø	312
FM 2727	ASPH	102	43	45	38	570
TURN LANE WIDENING	ASPH	1641	14			2553
BYRON RD	ASPH	39	24	33	21	140
CROWELL RD	ASPH	38	24	23	28	133
FRIERSON RD	ASPH	33	24	30	20	119
REESE RD	ASPH	30	20	26	14	87
LORRIAN LN	ASPH	33	20	23	13	90
DICKERSON RD	ASPH	33	24	18	30	117
CARTWRIGHT RD	ASPH	33	24	26	20	114
JOHN WAYNE LN	ASPH	43	24	22	17	133
KC 101	ASPH	65	30	58	27	314
SUNDOWN DR	ASPH	32	24	37	20	128
KC 102	ASPH	20	10	27	27	57
KC 102	GRVL					Ø
KC 165	ASPH	41	20	29	15	117
KC 103	ASPH	44	20	17	20	114
KC 103	ASPH	36	20	13	13	88
FM 2515	ASPH	34	30	40	36	182
TURN LANE WIDENING	ASPH	1205	9			1205
FM 429	ASPH	33	30	27	44	174
TURN LANE WIDENING	ASPH	1447	14			2251
KC 108	ASPH	40	20	27	18	114
KC 118	ASPH	30	20	23	28	98
KC 109	ASPH	38	20	28	30	125
KC 119	ASPH	40	20	51	24	165
	1.101.11				TOTAL	11043

REF. # 28 FN	1 1836	INT	ER.,WIDING	G, RAMPS,C	CROSSOV. &	GORES QUANTITY
INTERSECTION, WIDING, RAMPS CROSSOV., GORES	' TYP	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
WAYNE ST	CONC					0
ELIZABETH DR	CONC					0
MELODY CIR	CONC					0
MEOLDY DR	CONC					0
MELODT CIR	CONC					0
STILL MEADOW DR	CONC					0
RUSTIC TRL	ASPH	32	20	17	20	88
FAIR RD	ASPH	36	24	18	20	113
RAYMOND RD	ASPH	34	20	17	25	97
BRIDGE WIDENING	ASPH	760	16			1351
KC 146	ASPH	24	20	6	13	58
BRIDGE WIDENING	ASPH	720	14			1120
KC 170	ASPH	25	24	35	13	100
FM 1895	ASPH	45	30	40	47	241
FM 2515	ASPH	22	51	43	33	195
KC 168	ASPH	35	20	20	20	97
KC 111	ASPH	66	20	30	23	181
KC 112	ASPH	25	20	20	21	76
RAND RANCH RD	ASPH	20	20	20	20	64
KC 113	ASPH	27	20	29	20	90
KC 110	ASPH	22	37	23	20	113
KC 114	ASPH	22	36	25	20	112
BRIDGE WIDENING	ASPH	1091	15			1818
BRIDGE WIDENING	ASPH	853	15			1422
KC 116	ASPH	31	20	21	20	89
					TOTAL	7425

SHEET 1 OF 2									
Texas Department of Transportation									
KAUFMAN COUNTY INTERSECTION, WIDENING RAMPS & GORES QUANTITY									
DESIGN DS	FED.RD. DIV.NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO,					
GRAPHICS	6	SEE 1	TITLE SHEET	US 80,ETC.					
DS	STATE	DISTRICT	COUNTY	SHEET NO,					
снеск ЈН	TEXAS	DAL	KAUFMAN, ETC.						
CHECK	CONTROL	SECTION	JOB	51					
	0095	03	107.ETC.						

# KAUFMAN COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY

REF. # 31 WB U	S 80		INTER., WIDING, RAMPS, CROSSOV. & GORES QUANTITY					
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY		
WESTBOUND LANES								
MARKETPLACE BLVD	CONC					0		
TRAILHOUSE LN	ASPH					0		
ON RAMP	ASPH					0		
MUSTANG BLVD	CONC					0		
OFF RAMP	ASPH	155	24			413		
FM 740 TURN-OFF RD	ASPH					0		
WIDENING	ASPH					0		
ON RAMP	ASPH	165	17			312		
LOVERS LN	ASPH	30	28	25	46	159		
ON RAMP	ASPH	140	22			342		
OFF RAMP	ASPH	65	22			159		
					TOTAL	1385		

REF. # 31 EB US	80	INTER., WIDING, RAMPS, CROSSOV. & GORES QUANTITY						
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY		
EASTBOUND LANES								
WIDENING	ASPH	515	10			572		
OFF RAMP	ASPH	480	24			1280		
WIDENING	ASPH	1920	10			2133		
FM 688	ASPH					0		
ON RAMP	ASPH	630	24			1680		
FM 740 TURN-OFF RD	ASPH					0		
WIDENING	ASPH	195	14			303		
MCGRAW ST	ASPH	25	24	25	16	88		
ON RAMP	ASPH	205	17			387		
ELM ST	ASPH	25	24	14	13	75		
CEDAR ST	CONC					0		
WIDENING	ASPH	175	2			39		
SUMMERHAVEN DR	CONC					0		
PARK CREEK AVE	CONC					0		
OFF RAMP	ASPH					0		
REGAL DR	CONC					0		
					TOTAL	6557		

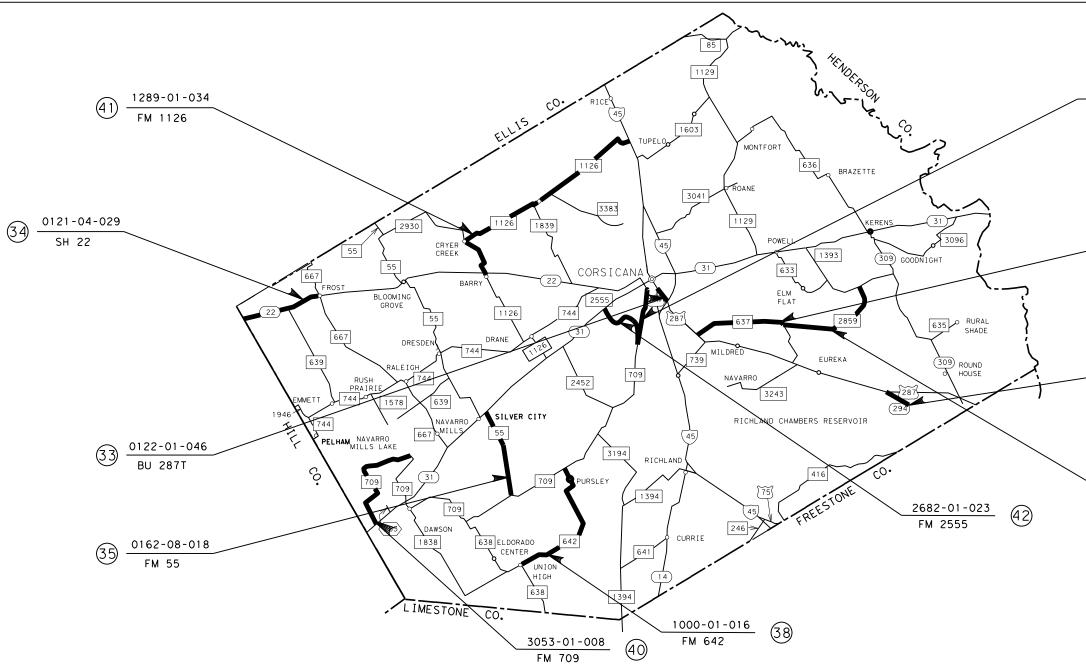
REF. # 32 EB US	32 EB US 80				INTER., WIDING, RAMPS, CROSSOV. & GORES QUANTITY				
INTERSECTION, WIDING, RAMPS,	ТҮР	LENGTH	WIDTH	R1	R2	AREA			
CROSSOV., GORES		FT	FT	FT	FT	SY			
EASTBOUND LANES									
FM 548	CONC					0			
ON RAMP	ASPH					0			
OFF RAMP	ASPH	155	21			362			
REEDER RD	ASPH	50	30	42	42	251			
CR 212	ASPH	30	30	18	20	117			
ON RAMP	ASPH	165	24			440			
OFF RAMP	ASPH	525	24			1400			
GAETWAY BLVD	CONC					0			
GATEWAY BLVBD	CONC					0			
ON RAMP	ASPH	680	26			1964			
OFF RAMP	ASPH	90	24			240			
WINDMILL FARMS BLVD	ASPH	44	30	44	47	246			
ON RAMP	ASPH	75	24			200			
CR 211	ASPH	30	30	18	20	117			
WIDENING	ASPH	967	7			752			
					TOTAL	6089			

REF. # 32 WB US	80	INT	ER.,WIDING	i, RAMPS,C	ROSSOV. &	GORES
INTERSECTION, WIDING, RAMPS,	ТҮР	LENGTH	WIDTH	R1	R2	
CROSSOV., GORES	111	FT	FT	FT	FT	
WESTBOUND LANES						
TOWNSEND RD	ASPH	14	20	10	10	
WINDMILL FARMS RD	CONC					
WINDMILL FARMS RD	ASPH	53	30	41	42	
OFF RAMP	ASPH	175	24			
ON RAMP	ASPH	75	30			
IRONGATE BLVD	CONC					
OFF RAMP	ASPH	395	25			
GATEWAY BLVD	CONC					
GATEWAY BLVD	CONC					
WIDENING	ASPH	291	18			
ON RAMP	ASPH	1080	22			
OFF RAMP	ASPH	85	22			
REEDER RD	ASPH	53	30	40	41	
REEDER RD	CONC					
ON RAMP	ASPH	85	24			
REEDER RD	ASPH	24	30	18	26	
OFF RAMP	ASPH					
FM 548	CONC					
					TOTAL	

QUANTIT	Y
AREA	
SY	
36	
0	
259	
467	
250	
0	
1097	
0	
0	
582	
2640	
208 255	
255	
0	
0 227 104	
104	
0	
0	
6125	

SHEET 2 OF 2

	) Texas	Departi	ment of Transp	ortation						
C 2022 DALLAS DISTRICT/2023 SEAL COAT										
KAUFMAN COUNTY										
INT	ERSE	CTIC	DN,WIDE	NING						
RAM	RAMPS & GORES QUANTITY									
DESIGN DS	FED. RD. DIV. NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.						
GRAPHICS	6	SEE -	FITLE SHEET	US 80,ETC.						
DS	STATE	DISTRICT	COUNTY	SHEET NO.						
СНЕСК ЈН	TEXAS	DAL	KAUFMAN, ETC.							
CHECK	CONTROL	SECTION	JOB	52						
	0095	03	107,ETC.							



					RO	ADWAY LIMITS		RDWY.
REFERENCE NUMBER	HIGH	IWAY	C-S-J	FROM		то		LENGTH
NONDER				DESCRIPTION	TRM	DESCRIPTION	TRM	(MI)
33	BU	287T	0122-01-046	BI 45F	312-0.427	IH 45	312+0.378	0.805
34	SH	22	0121-04-029	HILL CL	600+0.000	FM 667	604+1.021	4.915
35	FM	55	0162-08-018	SH 31	326-0.309	FM 709	330+1.176	5.479
36	SS	294	0122-07-003	SH 287	318-0.024	END OF MAINT	318+1.217	1.241
37	FM	637	0995-01-028	FM 2859	618+1.590	US 287	622+0.432	2.58
38	FM	642	1000-01-016	FM 638	324+0.010	FM 709	332+0.969	8.704
39	FM	709	0162-09-042	FM 2555	622+1.117	W 16th Ave	626+0.496	3.38
40	FM	709	3053-01-008	SH 31	590-0.021	NAVARRO MILLS HARBOR MARINA RD.	596+1.263	7.098
41	FM	1126	1289-01-034	IH 45	304+0.000	SH 22	318+0.697	14.536
42	FM	2555	2682-01-023	BUS 31D	314+1.611	FM 709	318+1.253	3.485
43	FM	2859	2847-01-010	FM 637	614-0.017	FM 1393	620+1.130	7.037
			· · · · ·			· · · · · ·	SUBTOTAL	59.260

0162- FM 7	<u>09-042</u> 09
-	$\frac{1-01-028}{637}$ (37)
-	<u>2-07-003</u> <u>36</u>
	2847-01-010 FM 2859 (43) J. R. HUGHES 134954 Soft CENSED Soft CENSED
<b>VY.</b> <b>GTH</b> II) 05 15	Johne Higher, P. E. 11/29/2022
79	
41	
58 04	C 2022 DALLAS DISTRICT MAINT. /2023 SEAL COAT
04 88	NAVARRO COUNTY
98	PROJECT SUMMARY
98 536	AND LOCATION MAP
85	DESIGN FED. RD. FEDERAL AID PROJECT NO. HIGHWAY DS DS DIV. NO. FEDERAL AID PROJECT NO. NO.
37	GRAPHICS 6 SEE TITLE SHEET US 80, ETC. DS STATE DISTRICT COUNTY SHEET NO.
260	CHECK TEXAS DAL KAUFMAN, ETC.
	NOT TO SCALE 0095 03 107, ETC.

# 2022 NAVARRO COUNTY SEAL COAT QUANTITY SUMMARY

					MEASURED ROADWAY	ROADWAY WIDTHS	SEAL COAT ROADWAY	INT. RAMPS, WIDE, CROSS OVER	TOTAL AREA	ADT	AGG	ASPHALT RATE	AGG RATE	316-6454 ASPH (AC-15P,	316-6255 AGGR (TY-PL	316-6434 AGGR (TY-PB GR-4
REFERENCE NUMBER	HWY.	C-S-J	FROM	то	LENGTHS		AREAS	AND GORES						AC-20-5TR, OR AC-20XP)	GR-3LW)	OR TY-PL GR-4)
					(FT)	(FT)	(SY)	AREA (SY)	(SY)		(GR3 OR 4)	(GAL/SY)	(SY/CY)	(TON)	SAC-B (CY)	SAC-B (CY)
33	BU 287T	0122-01-046	BI 45F	IH 45	3823	44	18690	260	18950	10293	4	0.33	125	26.08		152
34	SH 22	0121-04-029	HILL CL	FM 667	25947	41	118203	469	118672	2426	3	0.42	110	207.84	1079	
35	FM 55	0162-08-018	SH 31	FM 709	13705	27	41115	891	82619	2428	3	0.42	110	144.70	751	
55	FIVI 55	0102-08-018	21 21	FIM 709	15230	24	40613	891	82019	2428	э	0.42	110	144.70	751	
36	SS 294	0122-07-003	SH 287	END OF MAINT	5886	30	19620	757	20377	155	3	0.42	110	35.69	185	
37	FM 637	0995-01-028	FM 2859	US 287	13455	25	37375	931	38306	286	3	0.42	110	67.09	348	
38	FM 642	1000-01-016	FM 638	FM 709	46041	25	127892	987	128879	103	3	0.42	110	225.72	1172	
39	FM 709	0162-09-042	FM 2555	W 16th Ave	17555	25	48764	10656	59420	4479	3	0.42	110	104.07	540	
40	FM 709	3053-01-008	SH 31	NAVARRO MILLS HARBOR MARINA RD.	37529	22	91738	307	92045	119	3	0.42	110	161.21	837	
41	FM 1126	1289-01-034	IH 45	SH 22	73300	25	203611	9826	213437	711	3	0.42	110	373.81	1940	
42	FM 2555	2682-01-023	BUS 31D	FM 709	18401	25	51114	2729	53843	6607	4	0.33	125	74.09		431
43	FM 2859	2847-01-010	FM 637	FM 1393	31250	25	86806	6037	92843	213	3	0.42	110	162.60	844	
						SUBTOTAL	885540	33850	919390					1582.90	7696	583
								·								
												AS-BUILT	QUANTITIES			

NOTE: FOR CONTRACTOR INFORMATION ONLY

1- EXCLUSIONS - AREA OF CONCRETE SECTON, BRIDGES AND WIDENINGS:

REF #33, BU 287T CSJ: 0122-01-046, BRIDGE SECT. : L= 110 LF

REF #37, FM 637 CSJ: 0995-01-028, BRIDGE SECT. : L= 135 LF

REF #41, FM 1126 CSJ: 1289-01-034, BRIDGE SECT. : L= 2040 LF

REF #42, FM 2555 CSJ: 2682-01-023, BRIDGE SECT. : L= 190 LF

REF #43, FM 2859 CSJ: 2847-01-010, BRIDGE SECT. : L= 5850 LF

2- ASSUME ASPHALT WEIGHT OF 8.34 LBS/GAL FOR BASIS OF ESTIMATE

3- ASPHALT RATE SHOWN IS FOR BID PURPOSES ONLY

ACTUAL RATE WILL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER

4- STOCK PILE LOCATIONS ARE FOR CONTRACTORS INFORMATION

5- ALL STOP BARS AND STRIPING ON CONCRETE SECTIONS AND CONCRETE INTERSECTIONS MUST BE REMOVED AND REPLACED.

STOCKPILE LOCATION STOCKPILE LOCATION

STOCKPILE LOCATION 
 REF #33
 LONGITUDE
 LATITUDE
 REF #34
 LONGITUDE
 LATITUDE
 REF #35
 LONGITUDE
 LATITUDE

BU 287T	-96.451689	32.08277	SH 22	-96.809049	32.082459	FM 55	-96.586916	31.910983
ST	OCKPILE LOCAT	ION	S	TOCKPILE LOCAT	ON	S	TOCKPILE LOCA	FION
REF #36	LONGITUDE	LATITUDE	REF #37	LONGITUDE	LATITUDE	REF #38	LONGITUDE	LATITUDE

\$1			<u> </u>			ST		
SS 294	-96.232073	31.997109	FM 637	-96.309202	32.021178	FM 642	-96.59653	31.84396
REF #36	LONGITUDE	LATITUDE	REF #37	LONGITUDE	LATITUDE	REF #38	LONGITUDE	LATITUDE

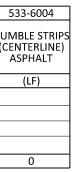
SI	OCKPILE LOCAT	ION	S	FOCKPILE LOCAT	ION	ST	OCKPILE LOCAT	ION
REF #39	LONGITUDE	LATITUDE	REF #40	LONGITUDE	LATITUDE	REF #41	LONGITUDE	LATITUDE
FM 709	-96.474261	32.03664	FM 709	-96.716744	32.945722	FM 1126	-96.636118	32.102569

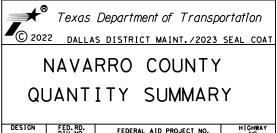
FM 709	-96.474261	32.03664	ΙL	FM 709	-96.716744	32.945722	FM 1126	-96.6
ST	FOCKPILE LOCAT	ION	1 [	S	TOCKPILE LOCAT	ON		
DEE //40	LONGITUDE	LATITUDE	1 F	DEE #42	LONGITUDE	LATITUDE		

FW 709	-90.474201	32.03004		1 101 7 0 3	-96.716744	32.943722	FIVE FIZE	-90.030110	J4
ST	OCKPILE LOCAT	ION	] [	S	FOCKPILE LOCAT	ION			
REF #42	LONGITUDE	LATITUDE	1 [	REF #43	LONGITUDE	LATITUDE			
FM 2555	-96.484316	32.044505		FM 2859	-96.240945	32.083491			

# HARD CURVE MILL & INLAY QUANTITY SUMMARY

										354 6045	3077 6011	3077 6075	533-6003	5
REF. #	HWY.	LATITUDE/LONGITUDE OF CURVE LOCATIONS	FROM TRM	TO TRM	LENGTH (MI.)	LENGTH (FT)	WIDTH (FT)	INTERSECTIONS (SY)	TOTAL AREA (SY)	PLANE ASPH CONC PAV (2")	SP MIXES SP-C PG64-22	TACK COAT	RUMBLE STRIPS (SHOULDER) ASPHALT	SRUN (CE
										(SY)	(TON)	(GAL)	(LF)	
36	SS 294	31.997069, -96.233295	318-0.024	318+0.025	0.049	259	30	0	863	863	94.9	52		
39	FM 709	32.039574/-96.463735	624+1.553	624+1.591	0.038	201	32	882	1597	1597	175.7	96		
41	FM 1126	32.111010/-96.635654	318+0.046	318+0.204	0.159	840	25	189	2522	2522	277.4	151		
41	FM 1126	32.108184/-96.639347	318+0.342	318+0.493	0.152	803	25	0	2231	2231	245.4	134		
									SUBTOTAL	7213	793.4	433	0	





DESIGN DS	FED.RD. DIV.NO.	FEDER	AL AID PROJECT NO.	HİGHWAY NO,
GRAPHICS	6	SEE T	ITLE SHEET	US 80,ETC.
DS	STATE	DISTRICT	COUNTY	SHEET NO.
СНЕСК ЈН	TEXAS	DAL	KAUFMAN, ETC.	_
CHECK	CONTROL	SECTION	JOB	54
	0095	03	107,ETC.	<b>.</b>

				NΑ	VARR	0 00	UNTY	WOR	k zo	NE &	PER	MANE	NT P	AVEN	IENT	MARK	INGS						
REFERENCE NUMBER	HIGHWAY	C-S-J	560-6011 MAILBOX INSTALL-S (TWW-POST) TY 4	560-6012 MAILBOX INSTALL-D (TWW-POST) TY 5	560-6013 MAILBOX INSTALL-M (TWW-POST) TY 4	662-6111 WRK ZN PAV MRK SHT TERM (TAB) TY Y-2	666-6167 REF PAV MRK TY II (W) 4" (BRK)	666-6174 REF PAV MRK TY II (W) 6" (SLD)	666-6178 REF PAV MRK TYII (W) 8" (SLD)	666-6179 REF PAV MRK TY II (W) 12" (LNDP)	666-6180 REF PAV MRK TY II (W) 12" (SLD)	666-6182 REF PAV MRK TY II (W) 24" (SLD) *	666-6205 REF PAV MRK TY II (Y) 4" (BRK)	666-6207 REF PAV MRK TY II (Y) 4" (SLD)	666-6212 REF PAV MRK TY II (Y) 12" (SLD)	666-6441 RE PROF PM (W)4"(SLD) RAISD PROF ONLY	666-6442 RE PROF PM (Y)4"(SLD) RAISD PROF ONLY	666-6443 RE PROF PM (Y)4"(BRK) RAISD PROF ONLY	668-6077 PREFAB PAV MRK TY C (W) (ARROW)	668-6085 PREFAB PAV MRK TY C (W) WORD	668-6089 PREFAB PAV MRK TY C (W) (RR XING)	668-6092 PREFAB PAV MRK TY C (W) (36") (YLD TRI)	672-6009 REF PAV MRKR TY II A-A
			(EA)	(EA)	(EA)	(EA)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EA)	(LF)	(EA)	(EA)	(EA)
33	BU 287T	0122-01-046				424	120	7701	868			78	160	2704	281	7701	2704	160	6			20	98
34	SH 22	0121-04-029	1			2594		51564				72	4590	30722									649
35	FM 55	0162-08-018	2			2894		57228				146	5110	26218		57228	26218	5110					723
36	SS 294	0122-07-003			2	614		10635				60	410	11958		10635	11958	410					154
37	FM 637	0995-01-028			1	1360		27056				22	1410	27188		27056	27188	1410					340
38	FM 642	1000-01-016	3			4604		45479				114	9310	27680		45479	27680	9310					1151
39	FM 709	0162-09-042	2	1		1776		34758		131	1156	112	410	32646		34758	32646	410	2			3	444
40	FM 709	3053-01-008	2			3752		74800				46	4500	50304		74800	50304	4500					938
41	FM 1126	1289-01-034	1			7698		151951				318	9790	97771		151951	97771	9790			4		1925
42	FM 2555	2682-01-023				1840		35442	2018			213	1350	32551		35442	32551	1350	4	8			460
43	FM 2859	2847-01-010	1			3710		73116				146	7100	31298		73116	31298	7100		-		<u> </u>	928
	2000	SUBTOTA	12	1	3	31266	120	569730	2886	131	1156	1327	44140	371040	281	518166	340318	39550	12	8	4	23	7810
	AS-BUILT QUA	ANTITY SUBTOTA		-		51200	110	565756	2000			102,		572045			540515				-		

REFERENCE NUMBER	HIGH	łway	C-S-J	677-6001 ELIM EXT PAV MRK & MRKS (4") (LF)	678-6001 PAV SURF PREP FOR MRK (4") (LF)	677-6007 ELIM EXT PAV MRK & MRKS (24") (LF)	678-6008 PAV SURF PREP FOR MRK (24") (LF)
33	BU	287T	0122-01-046	1155	1155	104	104
34	SH	22	0121-04-029				
35	FM	55	0162-08-018				
36	SS	294	0122-07-003				
37	FM	637	0995-01-028	540	540		
38	FM	642	1000-01-016				
39	FM	709	0162-09-042				
40	FM	709	3053-01-008				
41	FM	1126	1289-01-034	8160	8160		
42	FM	2555	2682-01-023				
43	FM	2859	2847-01-010	23400	23400		
			SUBTOTAL	33255	33255	104	104
	AS-BU		ANTITY SUBTOTAL				

# *NOTE: QTY INCLUDES LENGTH NEEDED FOR CROSSWALK BARS

	Texas Department of Transportation										
	NAVARRO COUNTY WORK ZONE AND										
-		PING	QUANT								
DESIGN	FED.RD. DIV.NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.							
GRAPHICS	6	SEE T	ITLE SHEET	US 80,ETC.							
DS	STATE	DISTRICT	COUNTY	SHEET NO.							
CHECK	TEXAS	DAL	KAUFMAN, ETC.								
JH CHECK	CONTROL	SECTION	JOB	55							
0201	0095	03	107,ETC.	55							

# NAVARRO COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY

REF. = 33 BU	J287T	INTER.		, RAMPS	, CROSSO	V. & GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	TYP	LENGTH	WIDTH	Rl	R2	AREA
RAMPS, CROSSOV., GORES		FT	FT	FT	FT	SY
FERGUSON RD	ASPH	30	35	36	22	159
SOUTHEAST DR	ASPH	20	40	15	17	101
					TOTAL	260

	5294	INTER.	.WIDING	, RAMPS	, CROSSO	V. & GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	TYP	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
WATERFALL WAY	ASPH	43	83	32	29	441
DEEP WATER COVE	ASPH	25	60	29	23	199
SHADY LN	PRIV					Ø
NORTHSHORE HARBOR	ASPH	30	26	27	23	117
CR 3190	PRIV					0
					TOTAL	757

REF. # 39 FM	709			ING, RAMP	S,CROSSOV	. & GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
WIDENING	ASPH	4285	2			952
TAPER	ASPH	175	38			370
WIDENING	ASPH	480	38			2027
WIDENING	ASPH	300	45			1500
TAPER	ASPH	435	38			919
SH 31	ASPH					0
CHAPERIAL RD	ASPH	28	28	27	12	108
RANCHLAND RD	ASPH	42	22	14	30	129
INGHAM RD	ASPH	40	22	26	25	129
HARRIS RD	ASPH	36	20	23	19	101
BARRON LN	ASPH	30	20	17	23	86
WIDENING	ASPH	4665	7			3628
W 15TH ST	ASPH	88	30	63	57	465
TANK PARK RD	GRAVEL					0
S 17TH ST	ASPH	40	32	28	16	167
W 18TH AVE	ASPH	27	24	10	7	76
S 14TH ST	GRAVEL					0
					TOTAL	10656

REF. # 42 FM	2555		NTER.,WID	ING, RAMP	S,CROSSO	/. & GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
WIDENING	ASPH	846	20			1880
SH 31	CONC					0
SH 31	CONC					0
SW 1020	ASPH	37	20	22	25	109
SW 1025	ASPH	37	20	23	28	114
SW 1025	ASPH	15	10	12	16	26
SH 31	CONC					0
OAK VALLEY LN	ASPH	30	28	30	24	129
SW 1081	ASPH	35	27	43	28	168
SW 1040	ASPH	26	20	18	20	75
HAMILTON RD	ASPH	26	20	21	20	78
HAMILTON RD	ASPH	26	22	20	20	83
HAMILTON RD	ASPH	23	20	16	20	67
					TOTAL	2729

REF. # 34 SH	SH 22 INTER., WIDING, RAMPS, CROSSOV. & GORES QUANTIT							
NTERSECTION, WIDING, RAMPS,	ТҮР	LENGTH	WIDTH	R1	R2	AREA		
CROSSOV., GORES		FT	FT	FT	FT	SY		
NW 4410	GRAVEL					0		
NW 4230	CONC					0		
NW 4400	GRAVEL					0		
FM 639	ASPH	44	30	53	22	225		
NW 4360	GRAVEL					0		
MELISSA ST	ASPH	20	20	15	26	66		
WILLIAMS DR	ASPH	20	20	20	15	59		
MARK PL	ASPH	20	20	20	15	59		
NW 4350	GRAVEL					0		
WYRICK ST	ASPH	20	20	16	20	60		
N.MINOR ST	GRAVEL					0		
S.MINOR ST	GRAVEL					0		
					TOTAL	469		

REF. # 37 FM	FM 637 INTER.			G, RAMPS,	CROSSOV. 8	& GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
TAPER	ASPH	192	18			192
WIDENING	ASPH	200	18			400
TAPER	ASPH	163	18			163
SE 3060	GRAVEL					0
SE 3061	ASPH	25	20	23	20	78
SE 3090	ASPH	35	20	21	20	98
					ΤΟΤΑΙ	931

REF. # 40 FM	709	INTER., WIDING, RAMPS, CROSSOV. & GORES QUANTITY						
NTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY		
NW 3220	GRAVEL					0		
NW 3160	GRAVEL					0		
NW 3240	GRAVEL					0		
NW 3245	GRAVEL					0		
NW 3210	ASPH	30	18	20	24	83		
NW 3201	ASPH	30	18	24	20	83		
NW 3200	GRAVEL					0		
NW 3206	GRAVEL					0		
NW 3207	ASPH	30	18	26	27	94		
NW 3208	GRAVEL					0		
FM 709	ASPH	0	0	32	31	47		
					ΤΟΤΑΙ	307		

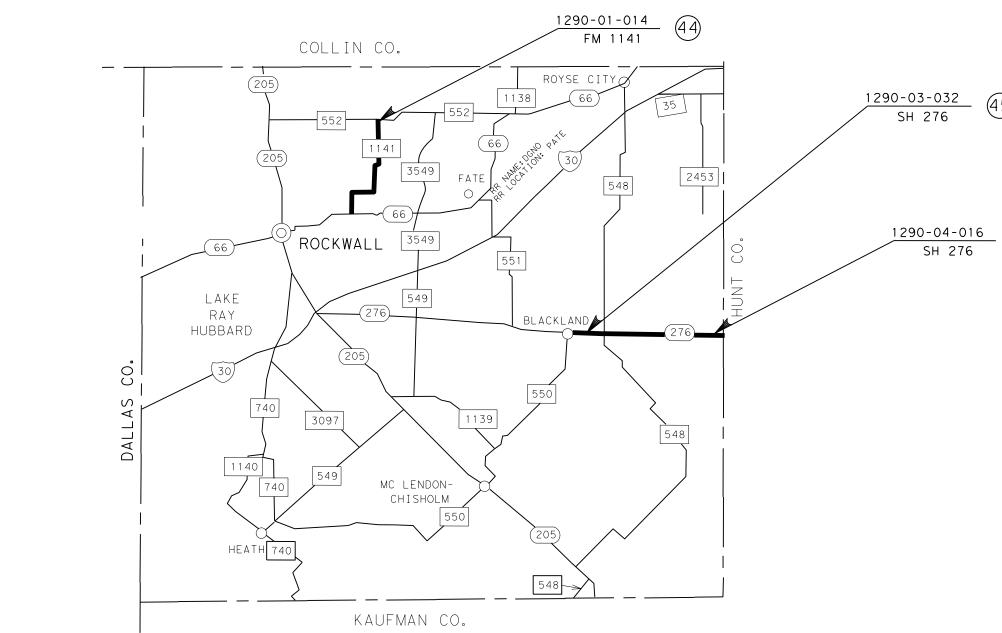
REF. # 43 FM	2859	IN	TER.,WIDIN	G, RAMPS,	CROSSOV. 8	& GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	түр	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
TAPER	ASPH	195	15			163
WIDENING	ASPH	2390	15			3983
SE 3048 E	ASPH	21	20	20	20	66
SE 3048 C	ASPH	25	20	17	18	70
SE 3085	ASPH	32	20	13	15	81
SE 3122	ASPH	36	67	15	16	279
SE 3130	ASPH	35	20	20	22	99
PARADISE DR	ASPH	32	83	26	18	319
TAPER	ASPH	375	15			313
SE 3120	ASPH	40	24	22	23	131
SE 3124	ASPH	38	24	25	23	129
SE 3121	ASPH	25	24	21	22	89
SE 3123	ASPH	35	24	19	27	119
SE 3129	ASPH	40	24	25	23	134
LAKEVIEW DR	CONC					0
SE 3220	ASPH	25	12	29	20	63
					ΤΟΤΑΙ	6027

REF. = 35 FM	55	INTER.	WIDING.	RAMPS	, CROSSOV	. & GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	TYP	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
SW 3149	ASPH		13	8	11	30
	ASPH	20	18	16	17	53
SW 3150	ASPH	30	18	17	16	73
SW 3095	ASPH	60	21	26	13	160
W 3RD ST	ASPH	25	18	10	11	55
W 2ND ST	ASPH	25	19	18	16	67
W 2ND ST	ASPH	30	16	17	18	68
W 1ST ST	ASPH	20	15	20	13	47
W 1ST ST	ASPH	25	22	16	Ø	67
SW 3096	ASPH	25	12	Ø	16	39
SW 3098	ASPH	20	20	23	19	66
SW 3155	ASPH	25	18	20	13	64
SW 3144	ASPH	28	20	30	28	102
					TOTAL	891

REF. # 38 FM	642	11	NTER.,WIDI	NG, RAMPS	,CROSSOV.	& GORES QUANTITY
INTERSECTION, WIDING, RAMPS, CROSSOV., GORES	ТҮР	LENGTH FT	WIDTH FT	R1 FT	R2 FT	AREA SY
SW 4210	ASPH	24	20	25	20	78
SW 2060	ASPH	27	20	24	15	79
SW 2060	ASPH	36	20	20	19	98
SW 4180	ASPH	50	20	39	31	170
SW 2080	ASPH	30	20	28	30	107
SW 4230	ASPH	30	20	20	20	86
SW 2305	ASPH	35	20	20	21	98
SW 2305	ASPH	90	20	18	10	210
SW 4220	ASPH	30	16	12	14	61
					TOTAL	987

	1126					& GORES QUANTITY
NTERSECTION, WIDING, RAMPS,	ТҮР	LENGTH	WIDTH	R1	R2	AREA
CROSSOV., GORES		FT	FT	FT	FT	SY
SH 22	ASPH			46	26	67
TAPER	ASPH	765	22			935
WIDENING	ASPH	2190	22			5353
NW 1220	ASPH	36	35	19	17	155
TAPER	ASPH	395	22			488
NW 1230	ASPH	30	20	20	20	90
NW 1344	ASPH	35	18	24	22	91
FM 2930	ASPH	40	40	20	0	255
FM 1126	ASPH			57	45	61
NW 1210	ASPH	35	20	23	24	108
NW 1145	ASPH	35	20	26	23	100
NW 1280	ASPH	30	24	20	15	105
NW 1140	ASPH	35	20	29	30	109
NW 1270	ASPH	26	18	20	15	97
S FM 1839	ASPH	46	30	41	36	191
N TRINITY AVE	ASPH	11	20	17	14	36
S TRINITY AVE	ASPH	35	18	17	18	84
N SEELY AVE	ASPH	11	20	16	15	35
N HOPKINS AVE	ASPH	15	20	15	18	55
S HOPKINS AVE	ASPH	20	30	24	36	98
CORINTH RD	GRAVEL					0
CORINTH RD	GRAVEL					0
FM 3383	ASPH	40	30	52	46	200
NW 1250	ASPH	40	30	26	23	159
NW 0080	ASPH	25	24	23	26	100
NW 0060	ASPH	30	24	27	30	115
NW 0090	ASPH	30	20	24	27	100
NW 0050	ASPH	30	20	26	28	95
NW 150	ASPH	29	20	20	20	87
NW 150	ASPH	30	20	20	20	94
NW 150	ASPH	40	30	27	20	155
NW 0141	ASPH	30	24	23	20	114
NW 0140	ASPH	30	24	26	24	94
1000 0140	1 7.5111	50	<b>2</b> 7	20	TOTAL	9826

Texas Department of Transportation									
- C 2022 DALLAS DISTRICT MAINT./2023 SEAL COAT									
	NAVARRO COUNTY								
INT	INTERSECTION, WIDENING								
RAM	PS &	GOR	ES QUAN	ITITY					
DESIGN DS	FED. RD. DIV. NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.					
GRAPHICS	6	SEE T	ITLE SHEET	US 80,ETC.					
DS	STATE	DISTRICT	COUNTY	SHEET NO.					
CHECK	TEXAS	DAL	KAUFMAN, ETC.						
	CONTROL	SECTION	JOB	56					
	0095	03	107,ETC.	50					



					ROADW	AY LIMITS	
REFERENCE	REFERENCE NUMBER HIGHWAY	C-S-J	FROM		то		
NONDER				DESCRIPTION	TRM	DESCRIPTION	TRM
44	FM	1141	1290-01-014	FM 552	252-0.084	SH 66	254+0.321
45	SH	276	1290-03-032	FM 550	610+1.691	FM 548	612+0.255
46	SH	276	1290-04-016	FM 548	612+0.256	Rockwall CL	614+0.717
							SUBTOTA

45)	16	
	RDWY. LENGTH (MI)	J. R. HUGHES J. R. HUGHES 134954 JCENSE JONAL ENGLISH JONAL ENGLISH JUMM JUMMA, P. C. 11/29/2022
		Texas Department of Transportation
	2.461	© 2022 DALLAS DISTRICT MAINT./2023 SEAL COAT
	0.57 2.488	ROCKWALL COUNTY
ΓAL	2.488 <b>5.519</b>	PROJECT SUMMARY
	NOT TO SCALE	AND LOCATION MAP DESIGN FED.RD. FEDERAL AID PROJECT NO. HIGHWAY OS 6 SEE TITLE SHEET US 80, ETC. DS STATE DISTRICT COUNTY SHEET CHECK TEXAS DAL KAUFMAN, ETC. JH CONTROL SECTION JOB 57

	2021 ROCKWALL COUNTY SEAL COAT QUANTITY SUMMARY																
						MEASURED	ROADWAY	SEAL COAT	INT. RAMPS,	TOTAL	ADT	AGG	ASPHALT	AGG	316-6454	316-6255	316-6434
REFERENCE						ROADWAY	WIDTHS	ROADWAY	CROSS OVER	AREA			RATE	RATE	ASPH (AC-15P,	AGGR (TY-PL	AGGR (TY-PB GR-4
NUMBER	HWY.	C-S-J	FRC	DM	то	LENGTHS		AREAS	AND GORES						AC-20-5TR, OR AC-20XP)	GR-3LW)	OR TY-PL GR-4)
									AREA							SAC-B	SAC-B
						(FT)	(FT)	(SY)	(SY)	(SY)		(GR3 OR 4)	(GAL/SY)	(SY/CY)	(TON)	(CY)	(CY)
44	FM 11	41 1290-01-0	4 FM 5	- F-2		10135	29	32657	2203	43935	2627	3	0.42	110	76.95	399	
44		41   1290-01-0.		552	SH 66	2475	33	9075	2203	43935	2627	5	0.42	110	76.95	399	
45	SH 2	6 1290-03-0	32 FM	550	FM 548	2935	47	15327	0	15327	13070	4	0.33	125	21.09		123
46	SH 2	6 1290-04-0	.6 FM	548	Rockwall CL	13229	47	69085	2517	71602	9029	4	0.33	125	98.53		573
							SUBTOTAL	126144	4720	130864		-			196.57	399	696
	AS-BUILT QUAN																

NOTE: FOR CONTRACTOR INFORMATION ONLY

1- EXCLUSIONS - AREA OF CONCRETE SECTON, BRIDGES AND WIDENINGS:

REF. #44, FM 1141 CSJ: 1290-01-014, CONC. SECT. : L= 180' (@ JOHN KING INTERSECTION)

2- ASSUME ASPHALT WEIGHT OF 8.34 LBS/GAL FOR BASIS OF ESTIMATE

3- ASPHALT RATE SHOWN IS FOR BID PURPOSES ONLY

ACTUAL RATE WILL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER

4- STOCK PILE LOCATIONS ARE FOR CONTRACTORS INFORMATION

5- ALL STOP BARS AND STRIPING ON CONCRETE SECTIONS AND CONCRETE INTERSECTIONS MUST BE REMOVED AND REPLACED.

	STOC	KPILE LOCA	TION		STOCKPILE LOCATION				
REF	#44	LONGITUDE	LATITUDE	F	REF	#45	LONGITUDE	LATITUDE	
FM	1141	-96.433473	32.958247		SH	276	-96.33948	32.8996	

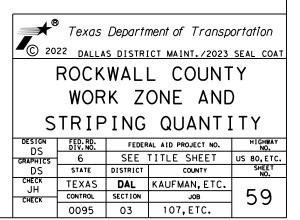
STOCKPILE LOCATION						
REF	#46	LONGITUDE	LATITUDE			
SH	276	-96.33899	32.899314			

	Texas Department of Transportation							
	ROCKWALL COUNTY QUANTITY SUMMARY							
DESIGN	FED.RD. DIV.NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.				
DS GRAPHICS	6	SEE -	TITLE SHEET	US 80,ETC.				
DS	STATE	DISTRICT	COUNTY	SHEET NO,				
снеск ЈН	TEXAS	DAL	KAUFMAN, ETC.					
CHECK	CONTROL	SECTION	JOB	58				
	0095	03	107,ETC.					

# ROCKWALL COUNTY WORK ZONE & PERMANENT PAVEMENT MARKINGS

REFERENCE NUMBER	HIGHWA	Y C-S-	560-6011 MAILBOX INSTALL-S (TWW-POST TY 4 (EA)	662-6109 WRK ZN PAV MRK SHT TERM (TAB) TY W (EA)	662-6111 WRK ZN PAV MRK SHT TERM (TAB) TY Y-2 (EA)	666-6174 REF PAV MRK TY II (W) 6" (SLD) (LF)	666-6178 REF PAV MRK TYII (W) 8" (SLD) (LF)	666-6182 REF PAV MRK TY II (W) 24" (SLD) * (LF)	666-6205 REF PAV MRK TY II (Y) 4" (BRK) (LF)	666-6207 REF PAV MRK TY II (Y) 4" (SLD) (LF)	668-6077 PREFAB PAV MRK TY C (W) (ARROW) (EA)	668-6085 PREFAB PAV MRK TY C (W) WORD (LF)	672-6007 REF PAV MRKR TY I C (EA)	672-6009 REF PAV MRKR TY II A-A (EA)
44	FM 11	1 1290-01	014	49	1538	31355	720	256	2580	15265	7	7		320
45	SH 27	6 1290-03	032 4	77	294	5870	480	24		5870	2	2	25	73
46	SH 27	6 1290-04	016 5	79	1449	26988	500	118	2000	16935	2	2	26	294
		SUE	OTAL 9	205	3281	64213	1700	398	4580	38070	11	11	51	687
	AS-BUILT	UANTITY SUE	OTAL											

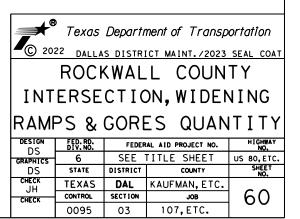
*NOTE: QTY INCLUDES LENGTH NEEDED FOR CROSSWALK BARS



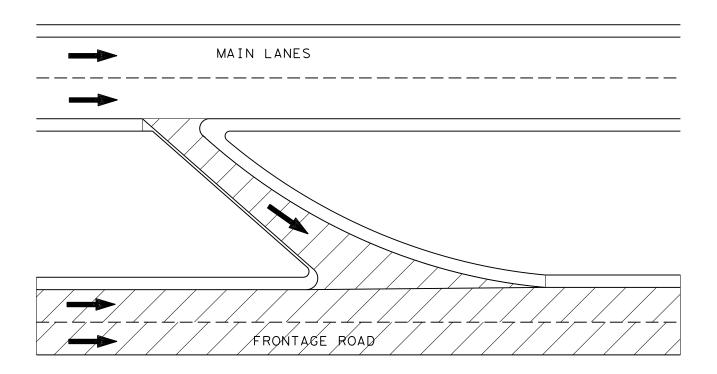
# ROCKWALL COUNTY INTERSECTION(I), WIDENING(W), CROSSOVERS(CRO), RAMPS(R) AND GORES(G) QUANTITY

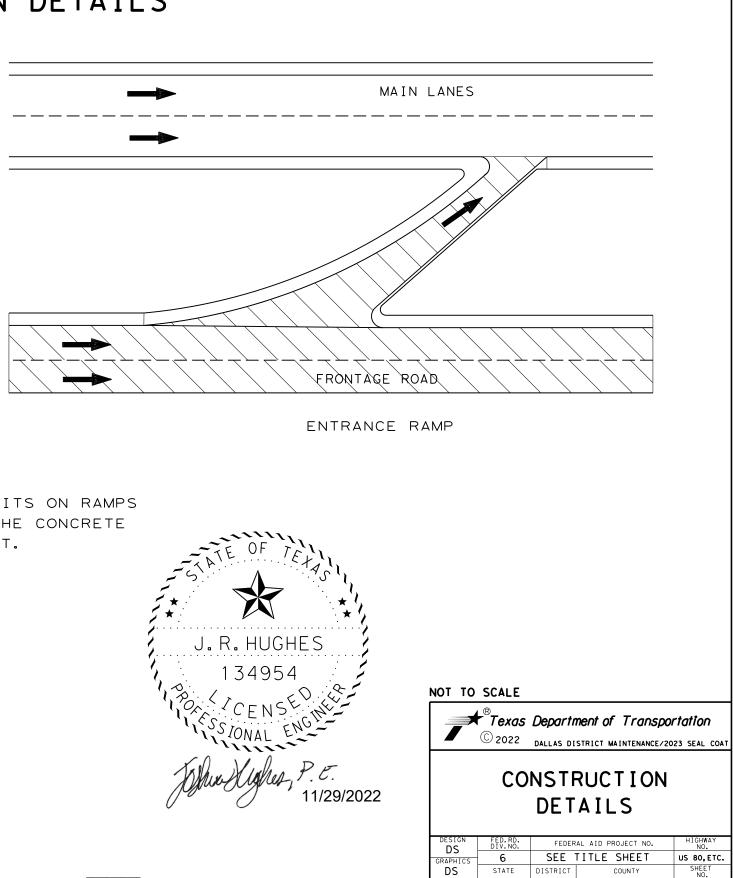
REF. # 44 FM	REF. # 44 FM 1141			IPS,CROSS	OV. & GORE	S QUANTITY
INTERSECTION, WIDING,	TVD	LENGTH	WIDTH	R1	R2	AREA
RAMPS, CROSSÓV., GORÉS	ТҮР	FT	FT	FT	FT	SY
SH 66	ASPH			25	35	44
WIDENING	ASPH	105	5			58
TAPER	ASPH	145	5			41
TAPER	ASPH	290	3			49
WIDENING	ASPH	275	3			92
Water Edge Dr	ASPH	46	30	18	18	169
TAPER	ASPH	200	3			34
TAPER	ASPH	45	3			8
WIDENING	ASPH	240	3			80
John King blvd	CONC					0
WIDENING	ASPH	85	7			66
TAPER	ASPH	200	7			78
Norman Trail Driveway	ASPH	24	20	20	20	72
Cornelius Rd	ASPH	60	24	30	40	220
Meadowclark Circle	ASPH	22	20	16	16	61
Harker Trail	ASPH	24	24	20	20	83
Harker Circle	ASPH	24	24	20	20	83
Taber Rd	ASPH	10	16	15	15	29
Clem Rd	ASPH	26	24	20	20	88
Saddlebrook Drive	CONC					0
Saddlebrook Drive	CONC					0
E Old Quail Run	ASPH	28	20	25	25	92
North Country Lane	ASPH	28	20	25	25	92
North Country Lane	CONC					0
Tannerson Drive	CONC					0
TAPER	ASPH	115	10			64
WIDENING	ASPH	375	10			417
TAPER	ASPH	198	10			110
Intersection at FM 552	ASPH			50	25	75
					TOTAL	2203

REF. # 46 SH	276	INTER.,W	INTER., WIDING, RAMPS, CROSSOV. & GORES QUANTITY						
INTERSECTION, WIDING,	INTERSECTION, WIDING, TYP		WIDTH	R1	R2	AREA			
RAMPS, CROSSOV., GORES		FT	FT	FT	FT	SY			
FM 548	CONC					0			
Alexander In	CONC					0			
N.Munson Rd LT	ASPH	47	23	26	10	139			
Streetman RT	ASPH	40	29	40	25	182			
Sabine Creek Rd LT	ASPH	43	24	40	24	167			
W.Highline Dr LT	ASPH	34	24	30	30	134			
S.Munson Rd RT	ASPH	35	33	30	30	171			
E.Highline Dr LT	ASPH	37	24	30	39	156			
Honey Creek LT	ASPH	37	20	12	13	90			
Widening Taper	ASPH	760	35			1478			
					TOTAL	2517			



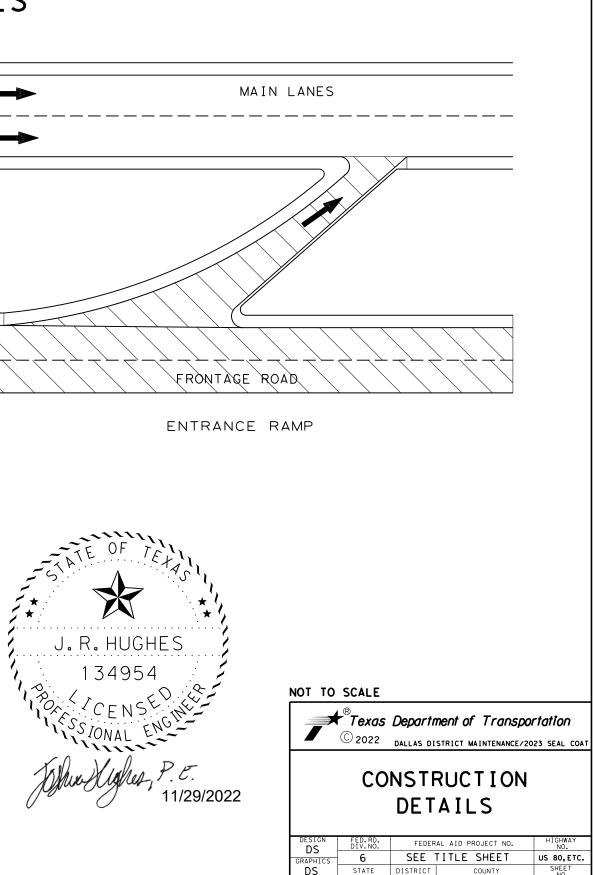
# CONSTRUCTION DETAILS





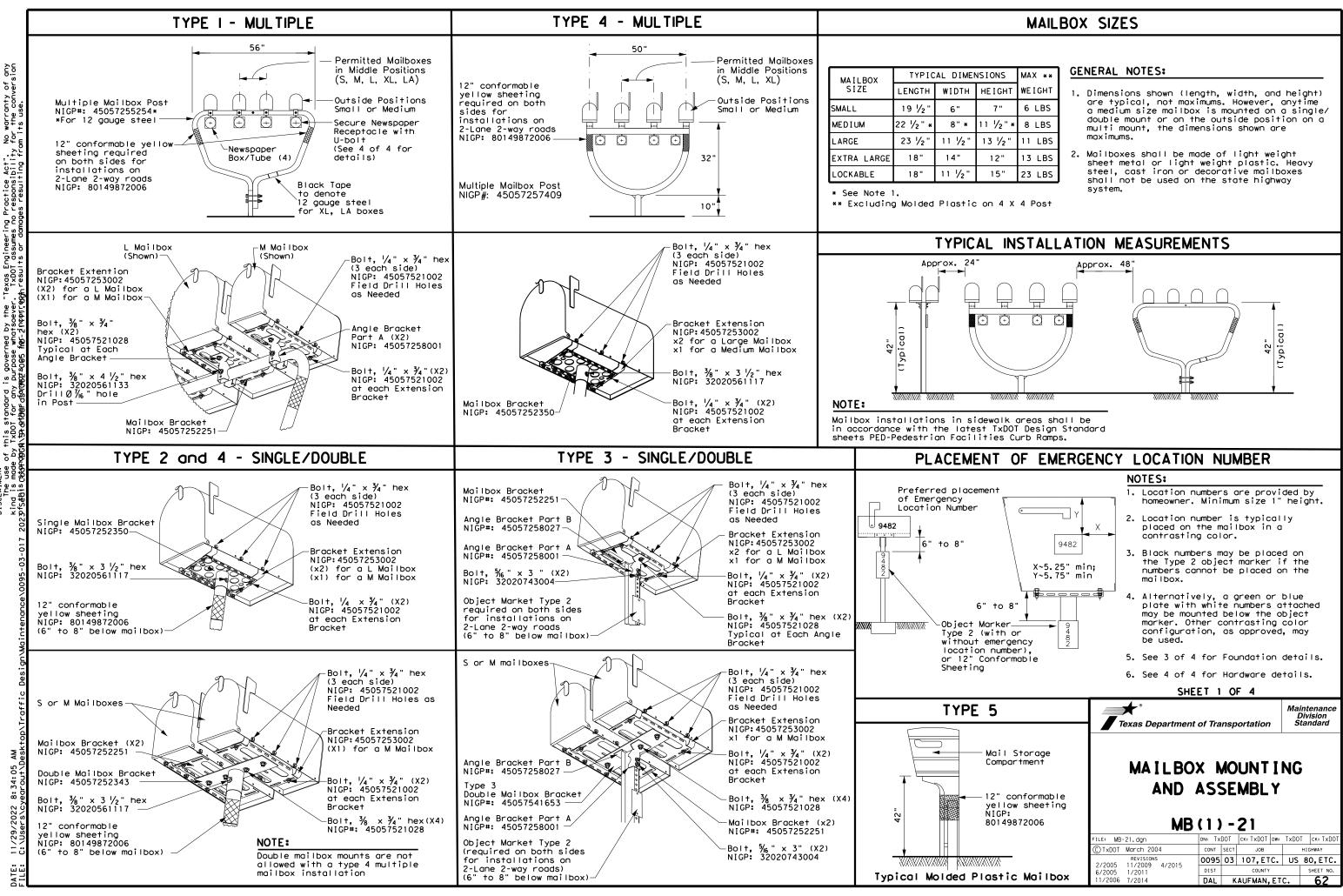
EXIT RAMP

NOTE: SEAL COAT LIMITS ON RAMPS SHALL BE TO THE CONCRETE PAVEMENT JOINT.

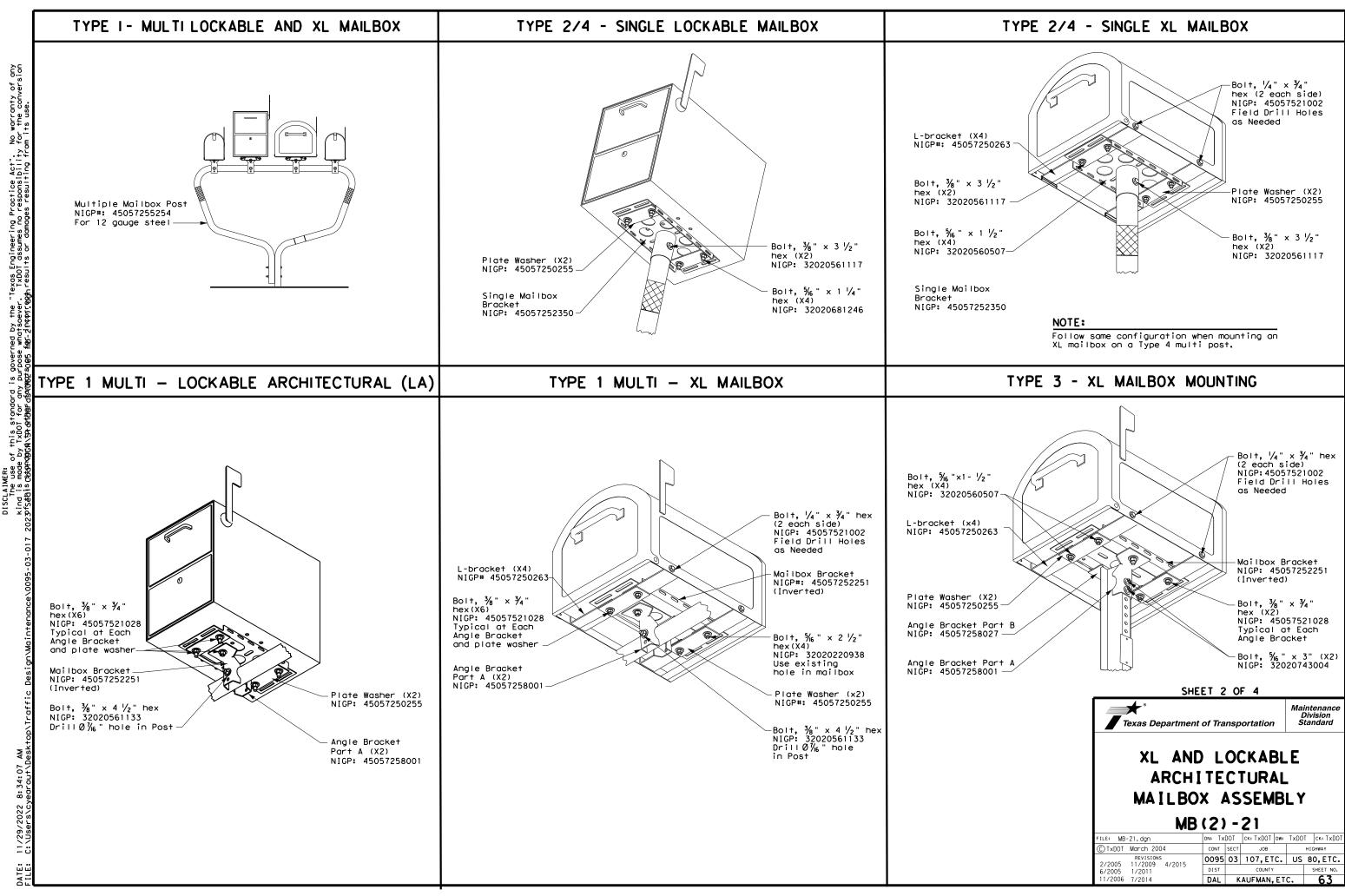


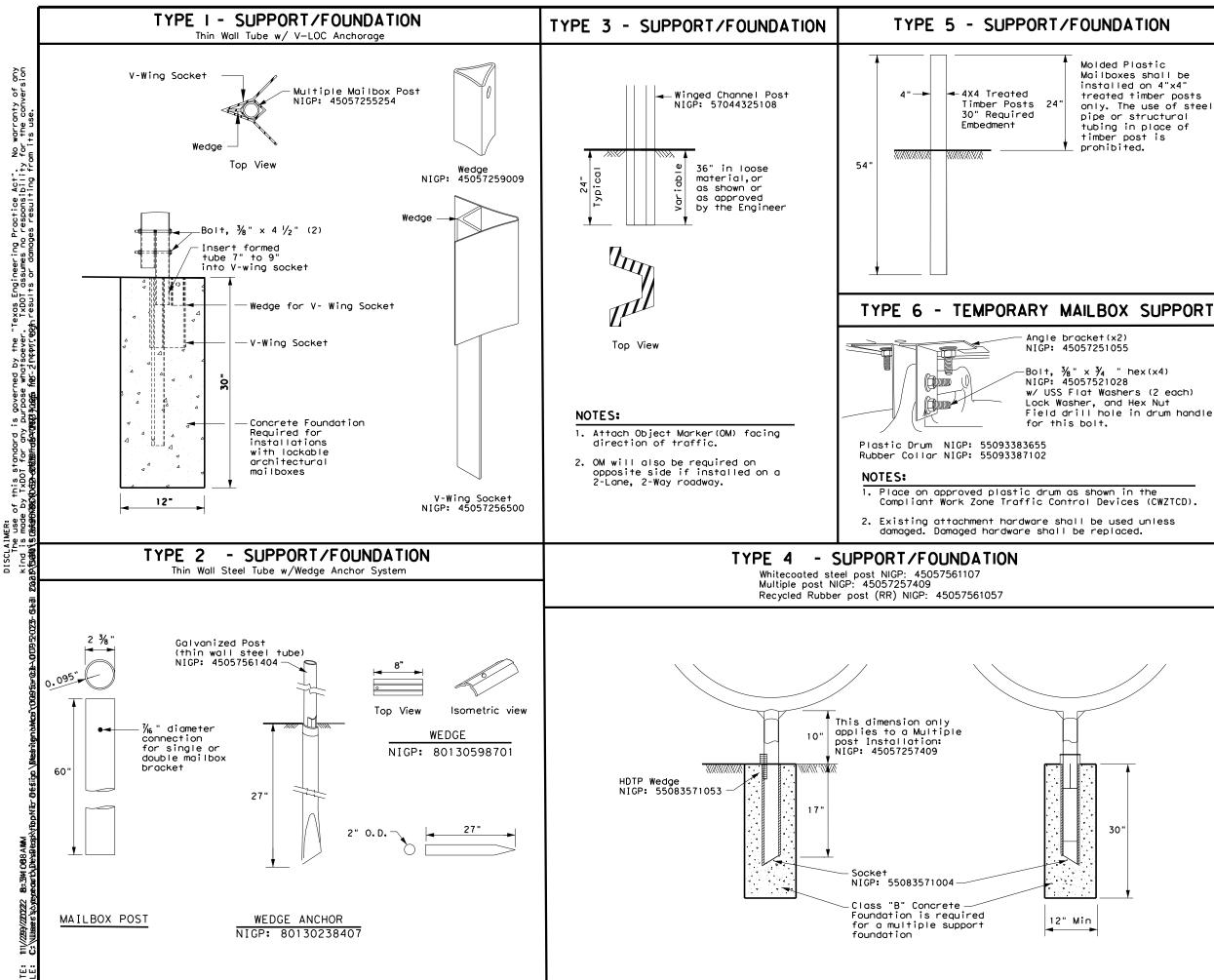


TEXAS DAL KAUFMAN, ETC. 61 CONTROL SECTION JOB CHECK 0095 03 107,ETC.



IONS	MAX **
EIGHT	WEIGHT
7"	6 LBS
½" *	8 LBS
3 1⁄2 "	11 LBS
12"	13 LBS
15"	23 LBS





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

Field drill hole in drum handle

## **GENERAL NOTES:**

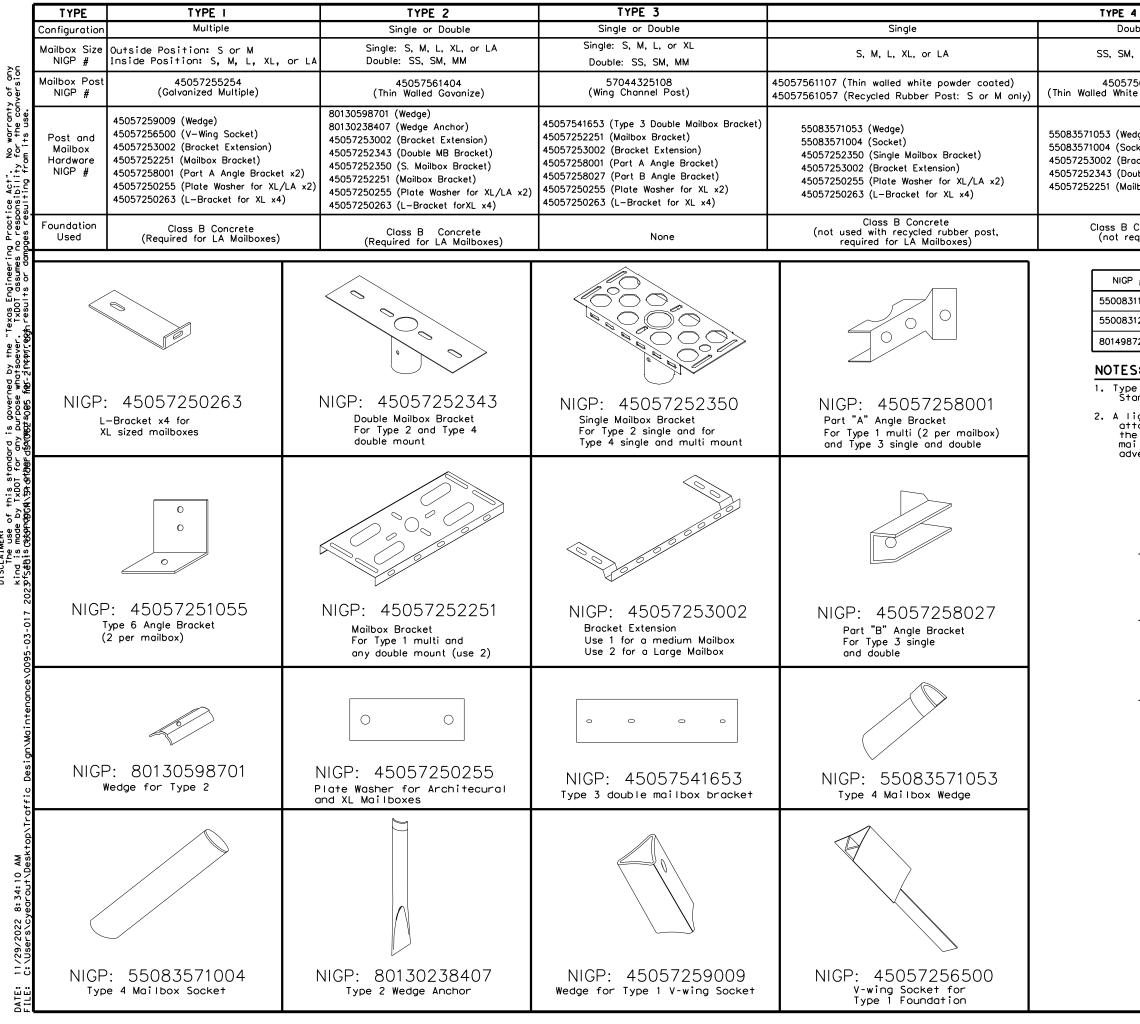
- 1. Erect post plumb or vertical.
- 2. When galvanized part is required galvanize in accordance with Item 445.
- Use a concrete footing as shown or when directed. Concrete footing will be required when soils do not hold the support/foundations in a stable condition, only on Type 1, Type 2, and Type 4

SHEET 3 OF 4

* Texas Department of Transportation Maintenance Division Standard

# MAILBOX SUPPORT AND FOUNDATION

MB	(3)	- (	21			
FILE: MB-21.dgn	DN:		СК:	DW:		ск:
© TxDOT March 2004	CONT	SECT	JOB		нIС	GHWAY
REVISIONS 2/2005 11/2009 4/2015	0095	03	107,ET	C. US	58	0,ETC.
6/2005 1/2011	DIST		COUNTY			SHEET NO.
11/2006 7/2014	DAL	K	AUFMAN,	ETC.		64



4			TYPE 5	TYPE 6
uble		Multiple	Single	Single
, or MM		Outside Position: S or M Inside Position: S, M, L, or XL	Molded Plastic	S, or M
561107 e Powd	er Coated)	45057257409 (White Powder Coated Multiple)	4x4 Timber	Construction Barrel
uble Mo	ttension) unt Brocket) ocket x2)	55083571053 (Wedge) 55083571004 (Socket) 45057253002 (Bracket Extension) 45057252350 (Single Mount Bracket) 45057250255 (Plate Washer for XL x2) 45057250263 (L-Bracket for XL x4)	None	45057251055 Angle Brocket (x2)
Concret equired)	e	Class B Concrete	None	None
#	OBJE	CT MARKERS AND CONFORMABLE SHEETIN	G	
11759	Type 2 OM	4"x4" (3 Needed) for Type 3 Wing Chann	el Post	
12906	•	6"x12" (1 needed) for Type 3 Wing Chanr		
72006	12" Conforn	nable Reflective Yellow Sheeting for Flexib	e Posts	
5:	· · · ·			
e 2 ob	ject marker	r in accordance with Traffic Eng rs & Object Markers.	ineerin	9
e maill il, ex vertis Type S M Type Type Tyw Tww Tww Tww Type Ty 1 Ty 2 Ty 3 Ty 4	of Mailba sing, exception of Mailba single Double Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multipl	Plastic Channel Post d Rubber Iled White Tubing Iled Galvanized Tubing ation nchor Steel System Channel post nchor Plastic System	ry of ti lisplay	n ne
		SHEET 4 OF	4	
		*		Maintenance
		Texas Department of Transpo	ortation	Division Standard
		NIGP PART AND COMPATI MB(4)-	BIL 21	ITY
		CTXDOT March 2004 CONT SECT	CK: TXDOT DW: JOB	HIGHWAY
		REVISIONS 0095 03	107 FTC	US 80. FTC.

REVISIONS 11/2009 4/2015 1/2011

7/2014

DIST

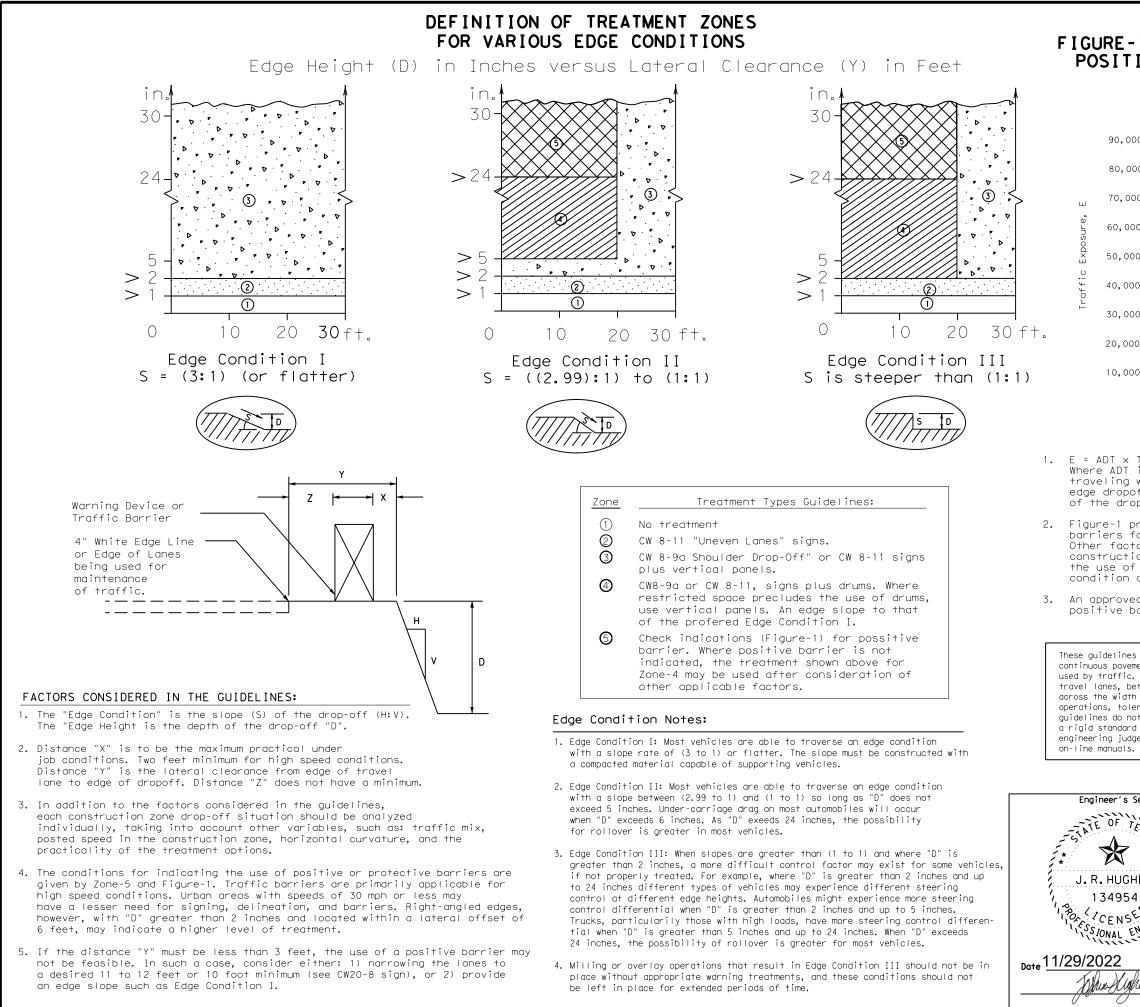
2/2005 6/2005 11/2006 0095 03 107,ETC. US 80,ETC.

SHEET N

65

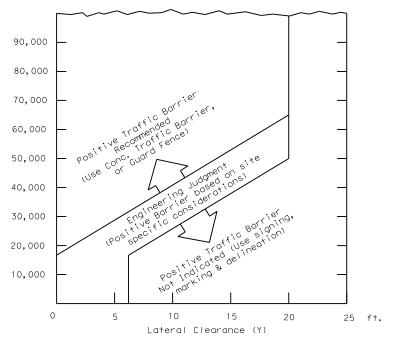
COUNTY

DAL KAUFMAN, ETC.



×

# FIGURE-1: CONDITIONS INDICATING USE OF POSITIVE BARRIER FOR ZONE 5 ( I I )



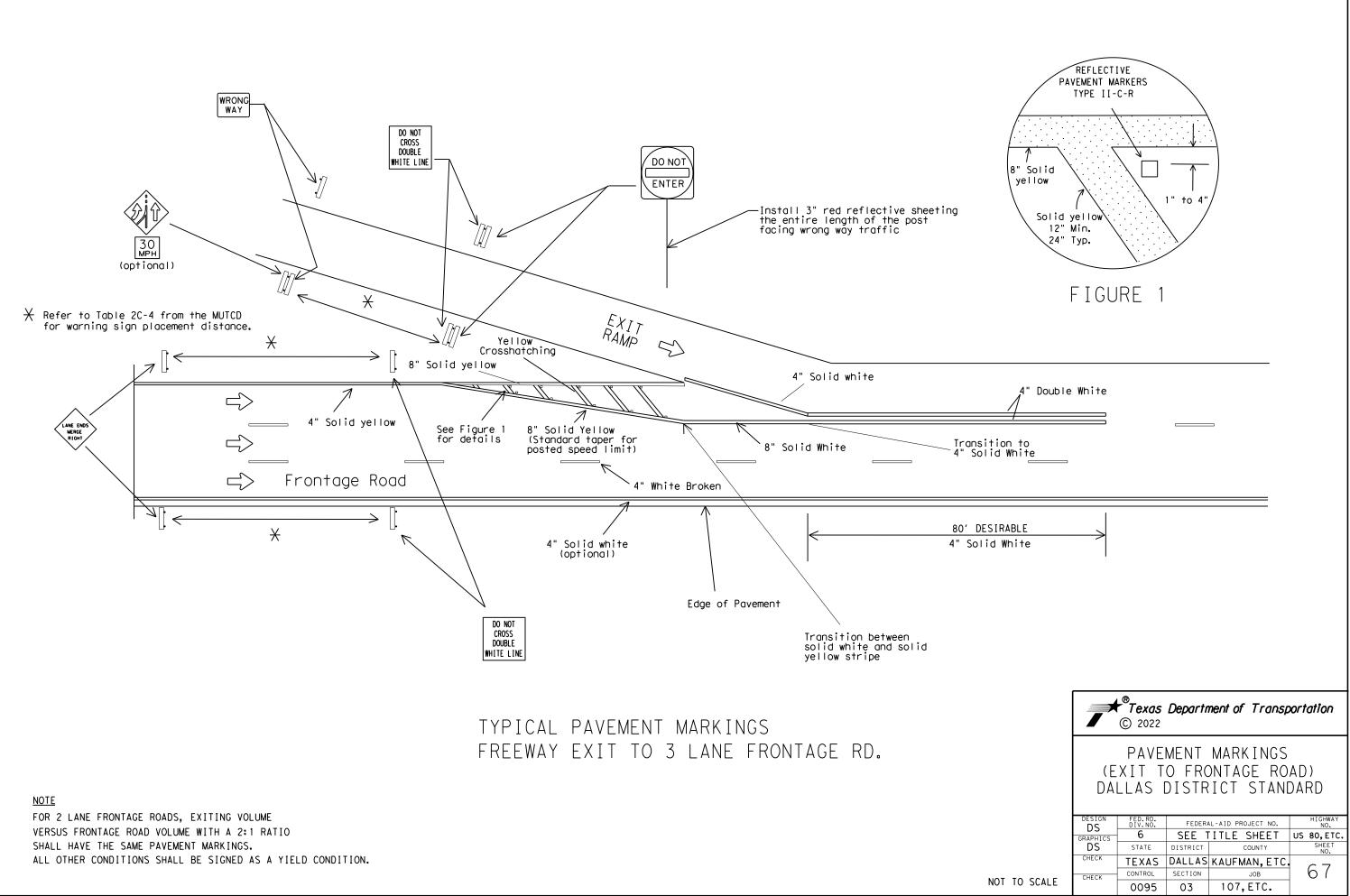
Where ADT is that portion of the average daily traffic volume traveling within 20 feet (generally two adjacent lanes) of the edge dropoff condition; and, T is the duration time in years of the dropoff condition.

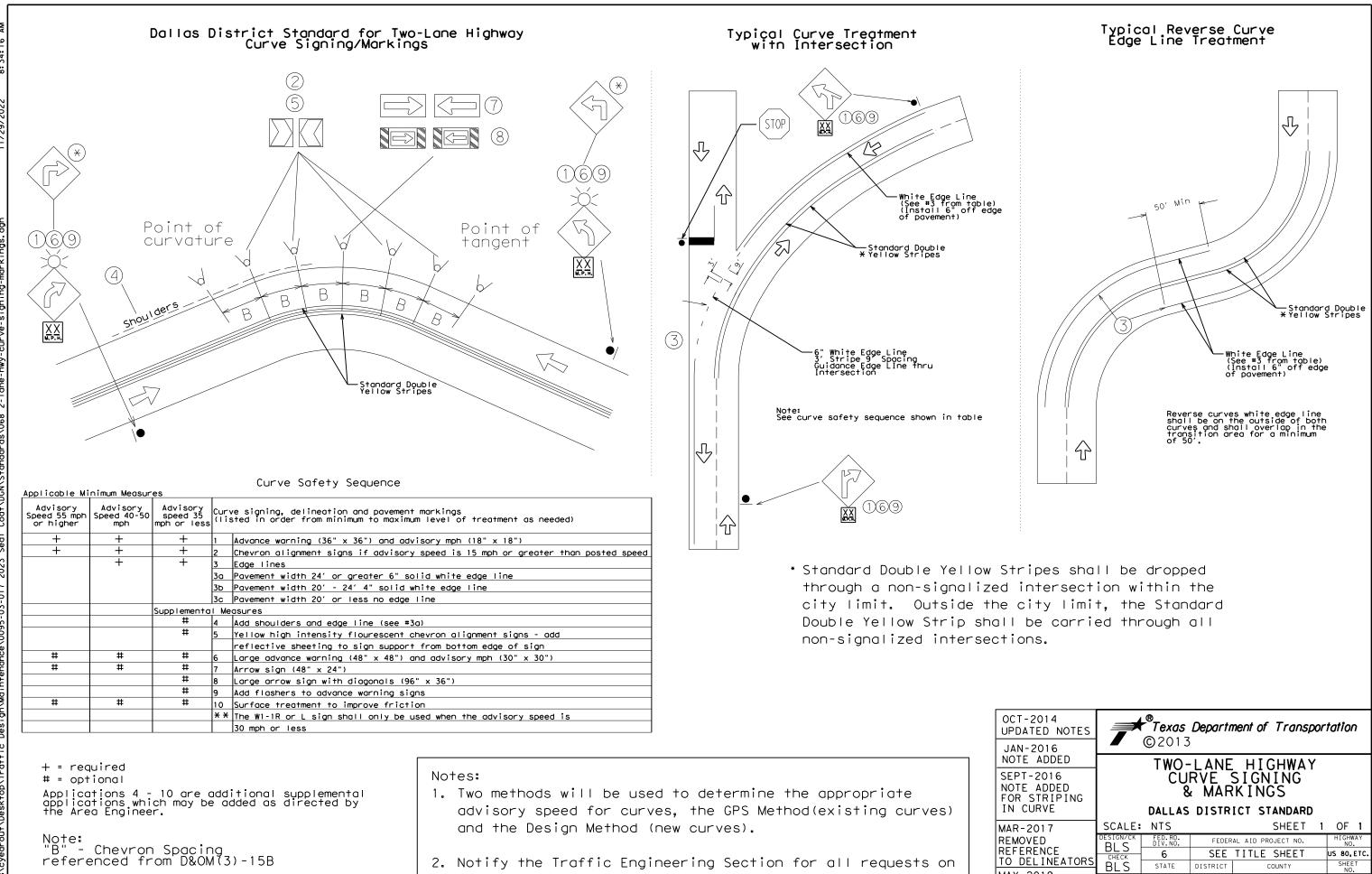
2. Figure-1 provides a practical approach to the use of positive barriers for the protection of vehicles from pavement drop-offs. Other factors, such as the presence of heavy machinery, construction workers, or the mix and volume of traffic may make the use of positive barriers appropriate, even when the edge condition alone may not justify the use of a barrier.

3. An approved end treatment should be provided for any positive barrier end located within the clear zone.

These guidelines apply to temporary traffic control areas or work zones where continuous pavement edges or drop-offs exists parallel and adjacent to a lane used by traffic. The edge conditions may be present between shoulders and travel lanes, between adjacent or opposing travel lanes, or at intermediate points across the width of the paved surface. Due to the variability in construction operations, tolerances in the variables may be allowed by the engineer. These guidelines do not apply to short term operations. These guidelines do not constitute a rigid standard or policy; rather, they are guidance to be used in conjunction with engineering judgement. These guidelines may be updated on the Design Division's on-line manuals.

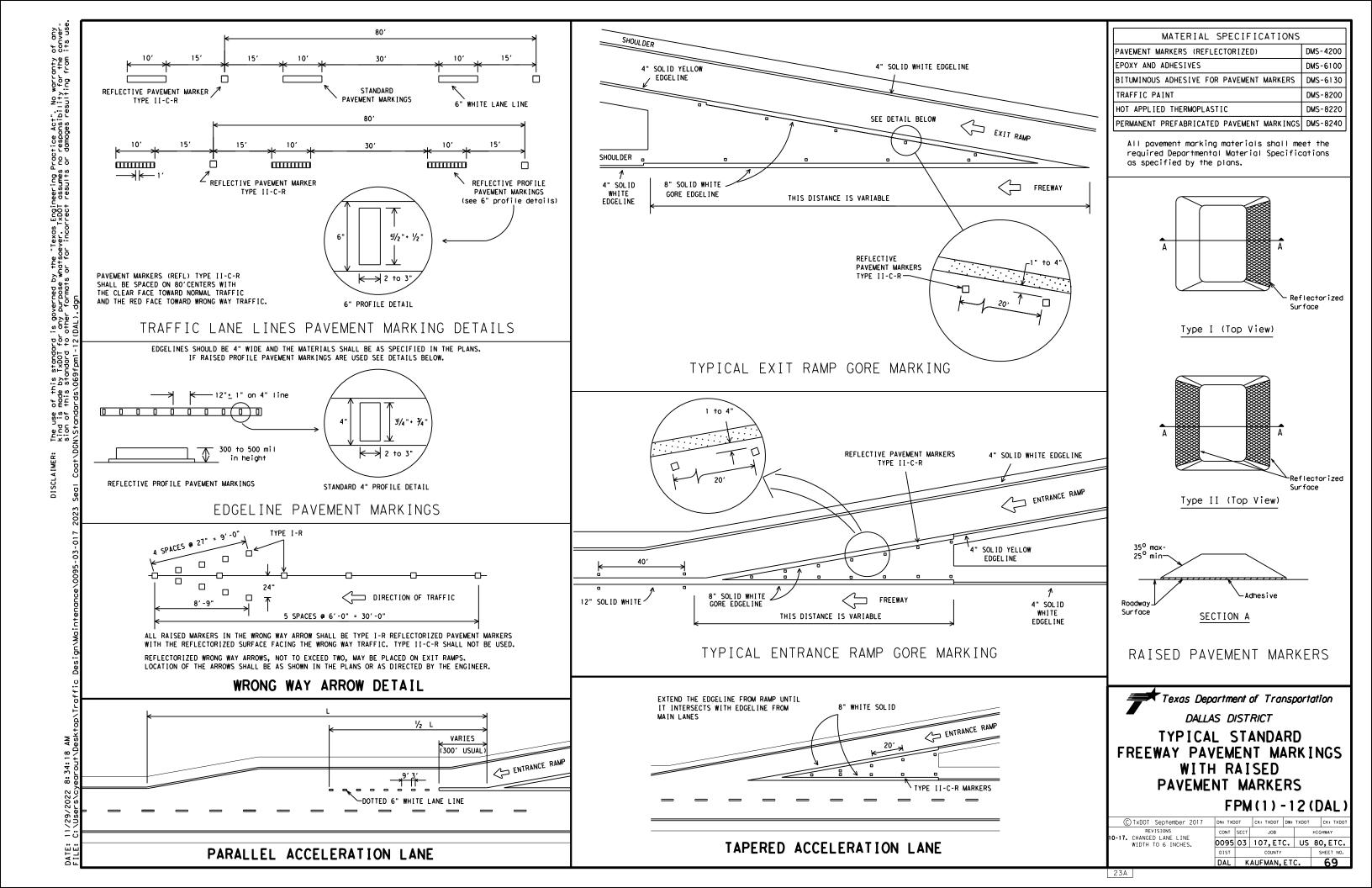
Engineer's Seal	Texas Department	nt of Trans	portation	Traffic Safety Division Standard
J. R. HUGHES	TREATMEN	T FO	R VAI	RIOUS
134954	EDGE	COND	ITIO	NS
134954 CENSEONE	EDGE	COND DN:		
			CK: DW:	
134954 SS JONAL ENGLY 0/2022	FILE: edgecon.dgn CTXDOT August 2000 REVISIONS	DN:	CK: DW: JOB	CK:
134954 CENSEONE	FILE: edgecon.dgn ©TxDOT August 2000	DN: CONT SECT	CK: DW: JOB	CK:

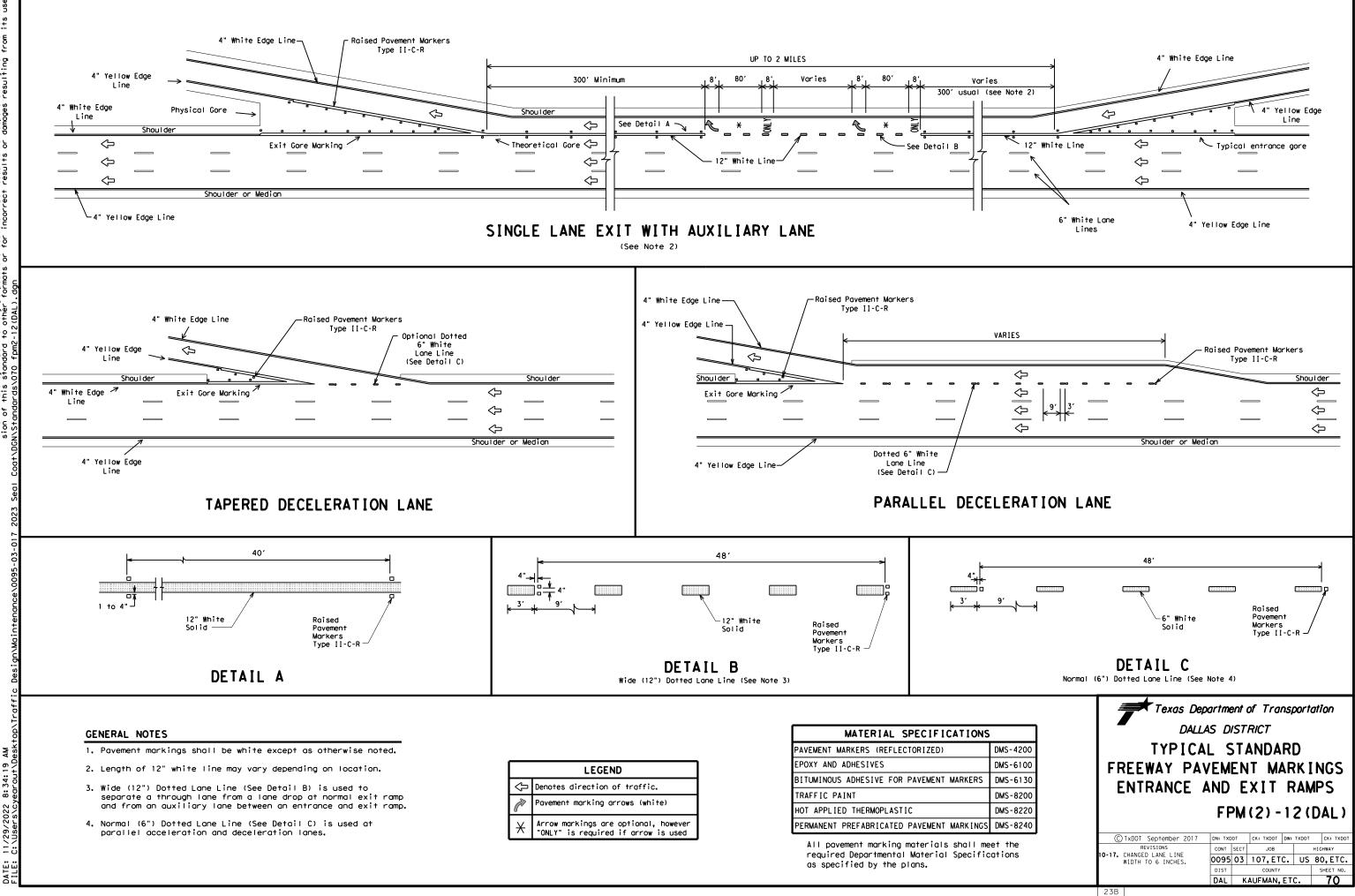




advisory speeds for existing curves.

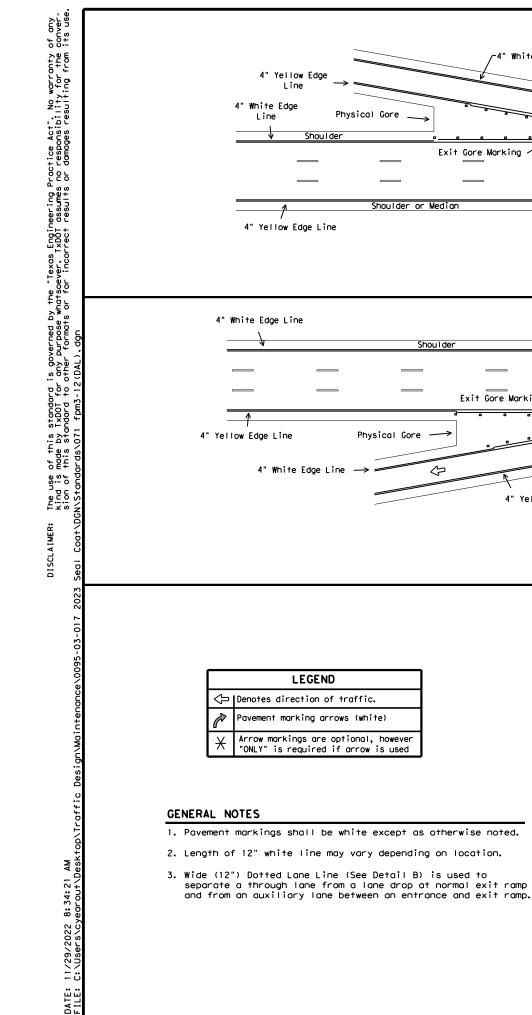
FOR STRIPING		Ŭ			
IN CURVE		DALLAS	DISTR	ICT STANDARD	
MAR-2017	SCALE:	NTS		SHEET 1	OF 1
REMOVED	BLS	FED.RD. DIV.NO.	FEDER	AL AID PROJECT NO.	HIGHWAY NO.
REFERENCE	CUE CK	6	SEE	TITLE SHEET	US 80,ETC.
TO DELINEATORS	BL2	STATE	DISTRICT	COUNTY	SHEET NO.
MAY-2019	CHECK FRC	TEXAS	DALLAS	KAUFMAN,ETC.	
MODIFIED SIGN SIZE	CHECK	CONTROL	SECTION	JOB	] 68
STON SIZE	ARO	0095	03	107,ETC.	

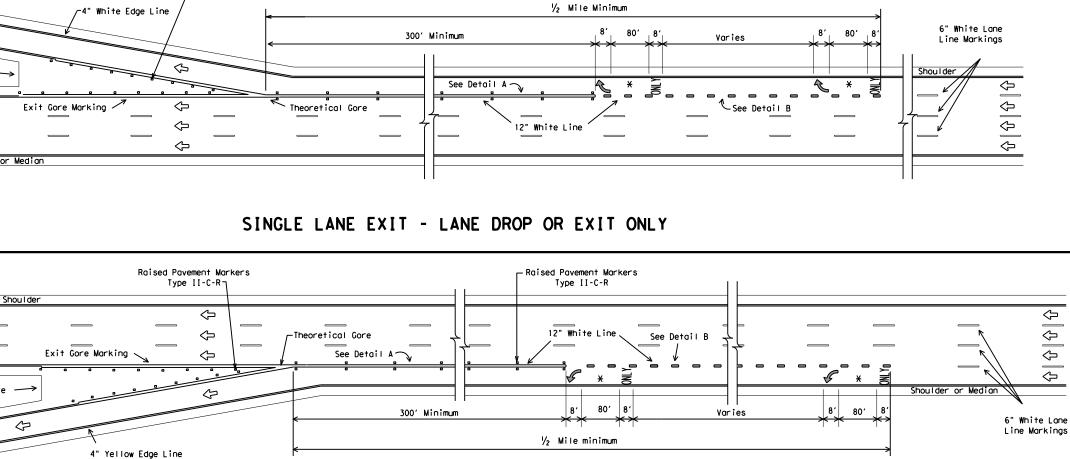




	LEGEND
Ŷ	Denotes direction of traffic.
R	Pavement marking arrows (white)
¥	Arrow markings are optional, however "ONLY" is required if arrow is used

All pavement marking materials	shall me
required Departmental Material	Specific
as specified by the plans.	



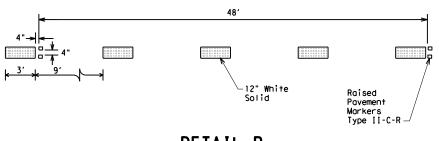


# SINGLE LANE EXIT - LANE DROP OR EXIT ONLY (LEFTHAND)

-Raised Pavement Markers Type II-C-R

<	40'	>
4 4		
1 to 4"	/	1
	12" White Solid ————————————————————————————————————	Raised Pavement Markers Type II-C-R —



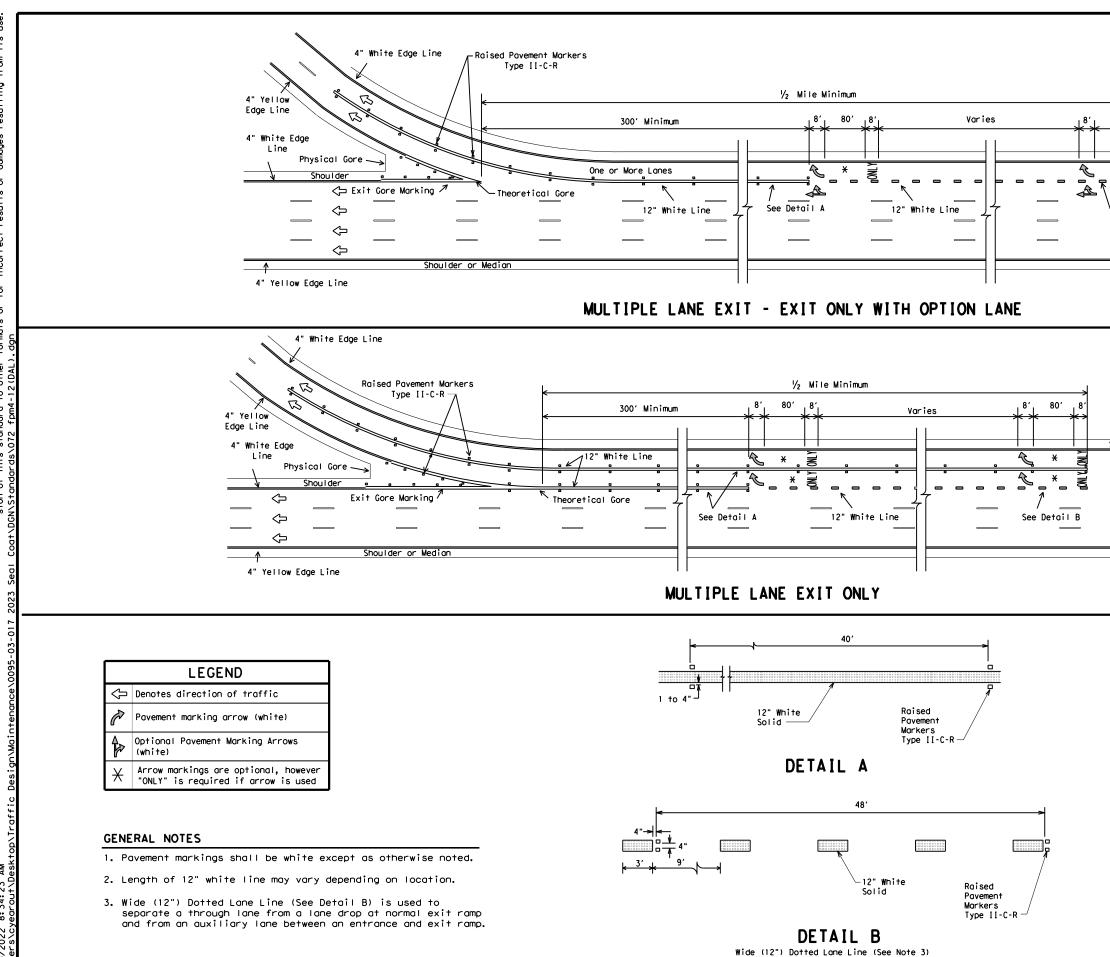


DETAIL B Wide (12") Dotted Lane Line (See Note 3)

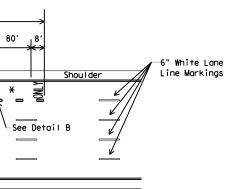
MATERIAL SPECIFICATIONS	5
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

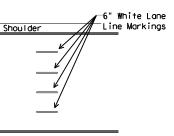
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

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AS D	IST	RICT		
AL S	STA	NDAR	)	
VEM	EN'	T MAR	KIN	S
. – .		• • • •		
	FP	M(3)	-12	(DAL)
DN: TX	от	CK: TXDOT	DW: TXDOT	CK: TXDOT
CONT	SECT	JOB		HIGHWAY
0095	03	107, ETC	C.∣US	80,ETC.
0095 DIST	03	107, ETC	C.  US	80, ETC.
	AS D AL S AVEM IT C	AS DIST AL STA AVEMEN IT ONL FP	AS DISTRICT AL STANDARI AVEMENT MAR IT ONLY) ES FPM (3)	AL STANDARD AVEMENT MARKING IT ONLY) EXIT FPM(3)-12



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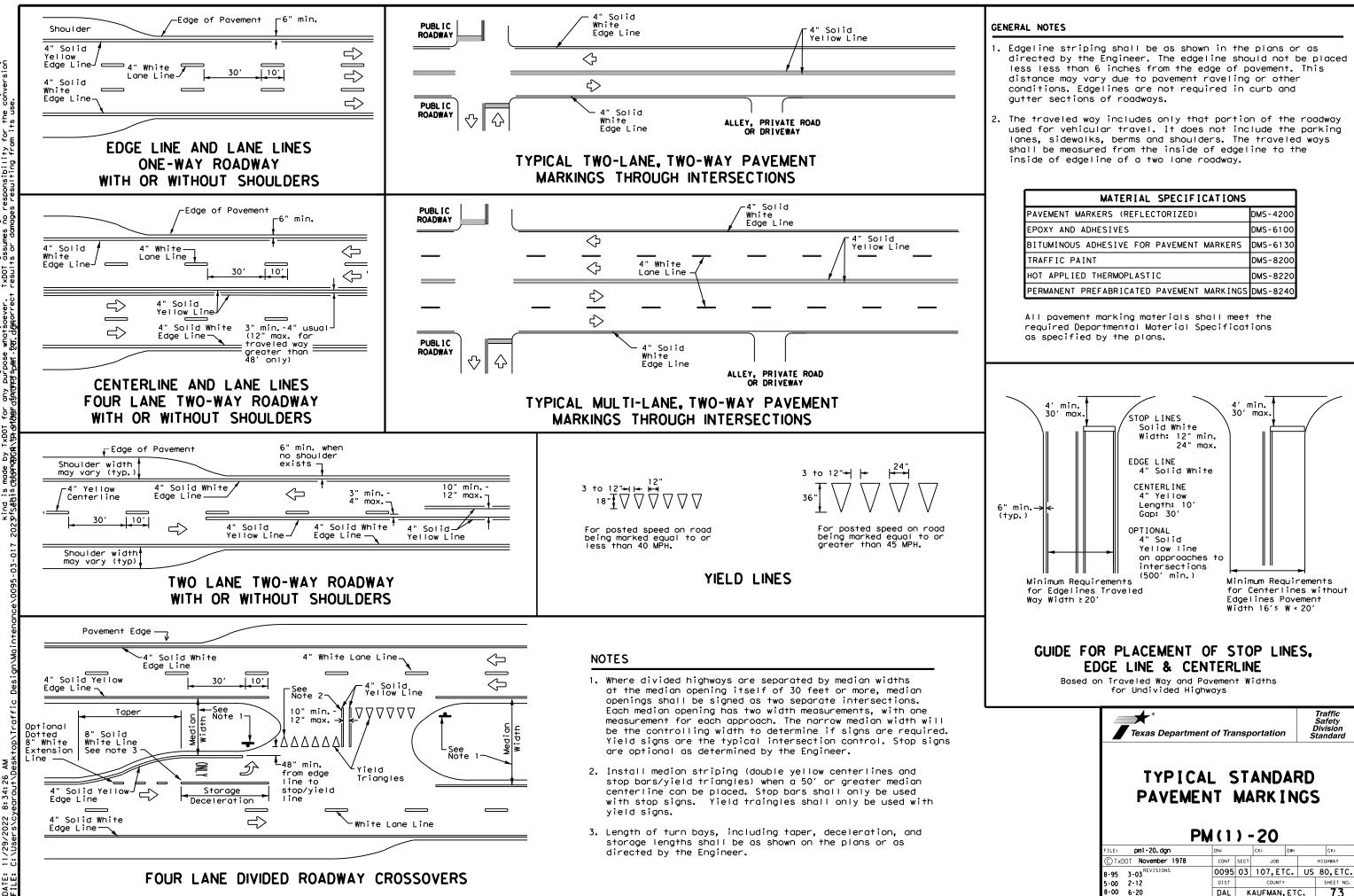


MATERIAL	SPECIFICATIONS	

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

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

Texas Dep DALLA				nsp	orte	ation	
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FREEWAY PAV	/EM	ΕN	T MA	RK	IN	IGS	
LIANE DROP (ES		- 1		- 11			C C
ILANL DIVU VLA	<u> </u>	- U		υ	יבי	AL	LJ
LANE DROP (E)		U		U		AI	LJ
			NL 1)  (4) -				
	F	PM	(4) -	- 1	2 (	DA	L)
© TxDOT September 2017		<b>PM</b>	( <b>4)</b> -		2 ( ×dot	CK1	<b>L</b> )
© TxDOT September 2017 REVISIONS		<b>РМ</b> ют sect	( <b>4</b> ) - ск: тхрот јов	- 1	2 ( xdot		L)
© TxDOT September 2017		<b>РМ</b> ют sect	( <b>4</b> ) - ск: тхрот јов	- 1	2 ( xdot	CK1	L)
© TxDOT September 2017 REVISIONS 10-17, CHANGED LANE LINE		<b>РМ</b> ют sect	( <b>4</b> ) - ск: тхрот јов	- 1	2 ( xdot		L)
© TxDOT September 2017 REVISIONS 10-17, CHANGED LANE LINE	<b>F</b> DN: TXC CONT 0095	PM NOT SECT 03	( <b>4</b> ) - ск: тхрот јов 107, ЕТ	- 1	2 ( xdot US	СК: ск: ніснwач 80, Е знеет	L)



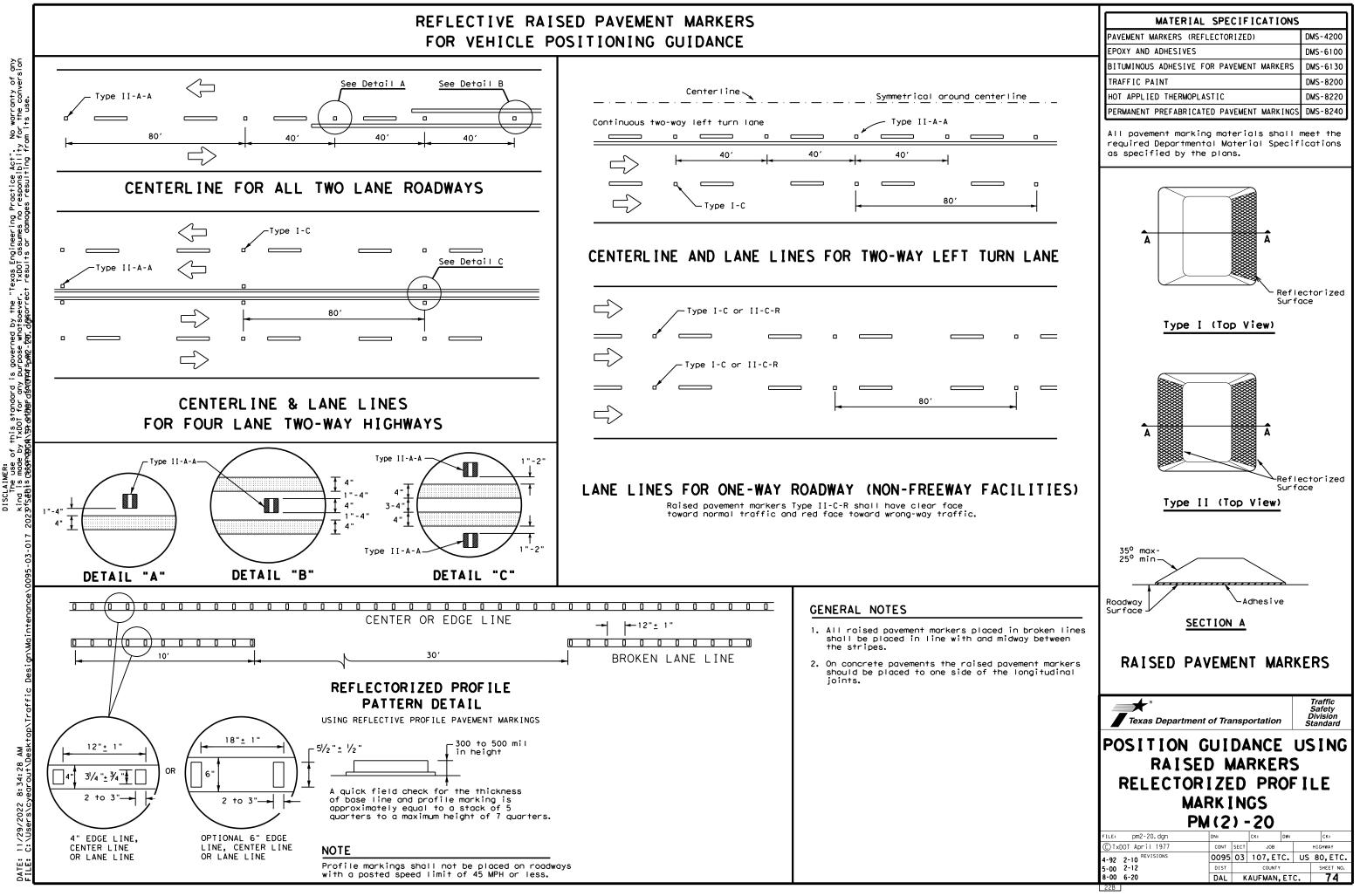
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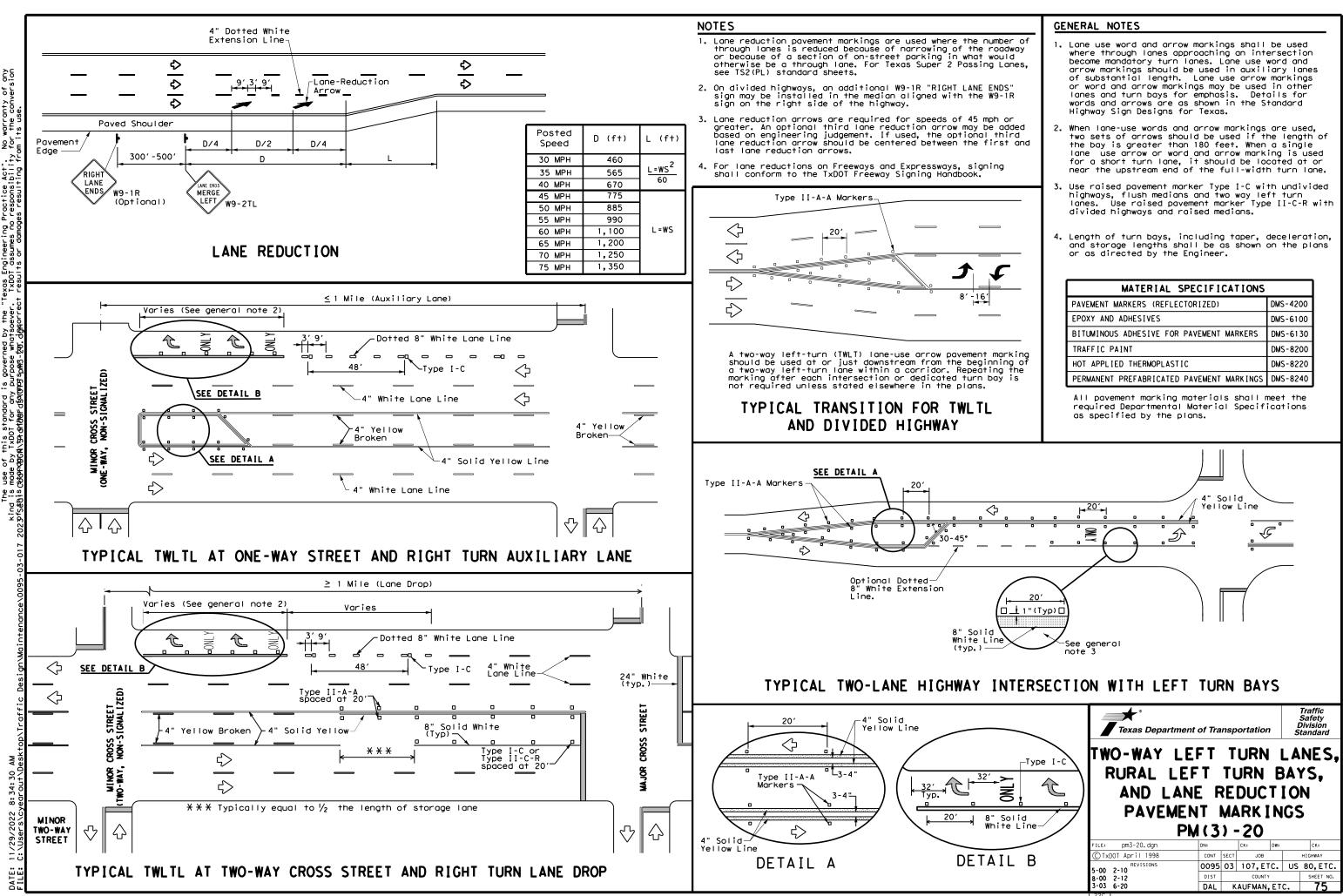
DATE:

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

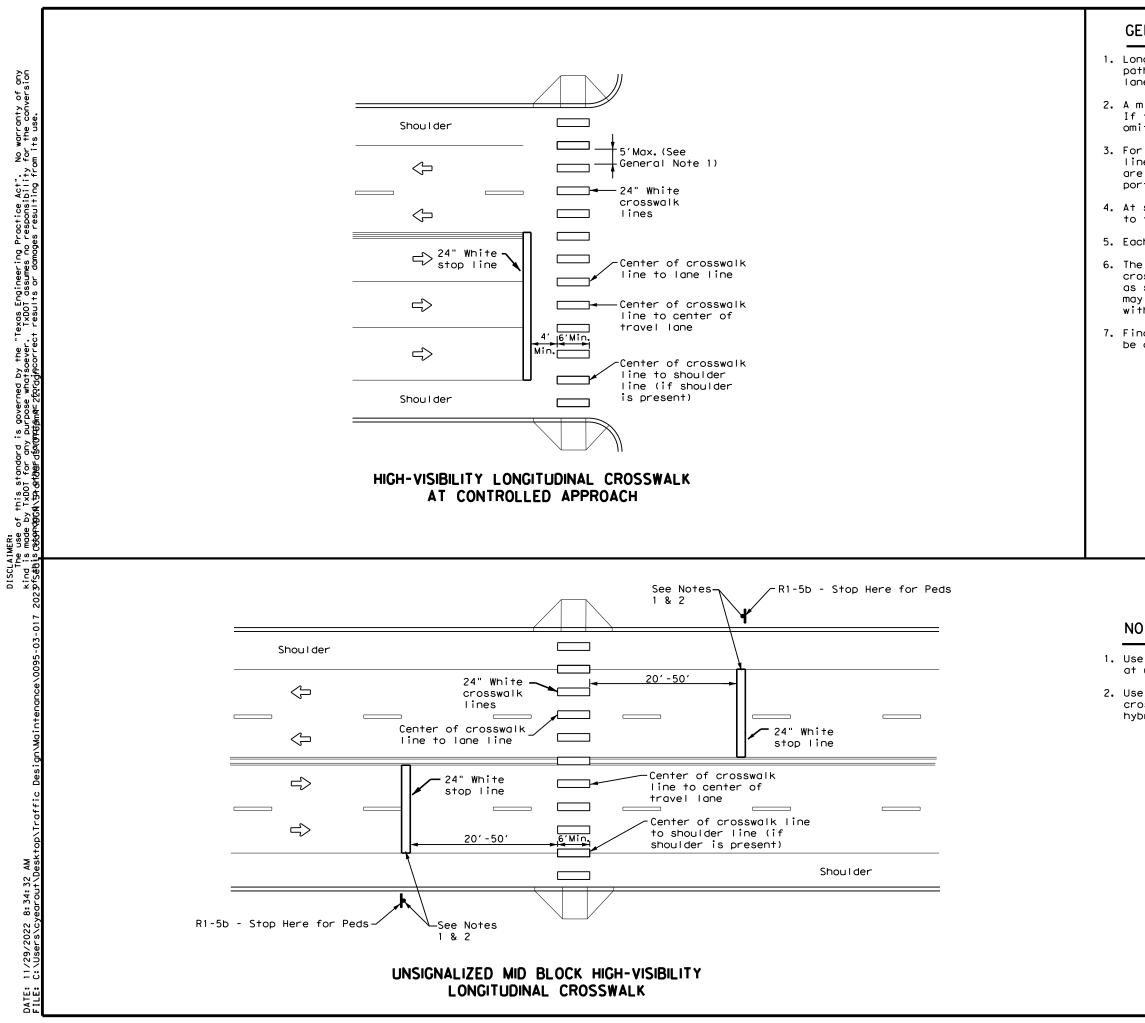
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# FOR VEHICLE POSITIONING GUIDANCE





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# GENERAL NOTES

 Longitudinal crosswalk lines should not be placed in the wheel path of vehicles. Center the crosswalk lines on travel lanes, lane lines, and shoulder lines (if present).

2. A minimum 6" clear distance shall be provided to the curb face. If the last crosswalk line falls into this distance it must be omitted.

3. For divided roadways, adjustments in spacing of the crosswalk lines should be made in the median so that the crosswalk lines are maintained in their proper location across the travel portion of the roadway.

4. At skewed crosswalks, the crosswalk lines are to remain parallel to the lane lines.

5. Each crosswalk shall be a minimum of 6' wide.

6. The High-Visibility Longitudinal Crosswalk is the preferred crosswalk pattern on State Highways. Other crosswalk patterns as shown in the "Texas Manual on Uniform Traffic Control Devices may be used. All crosswalk designs and dimension shall comply with the "Texas Manual on Uniform Traffic Control Devices."

7. Final placement of Stop Bar and Crosswalk shall be approved by the Engineer in the field.

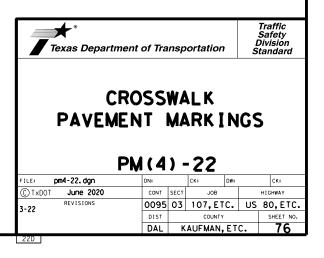
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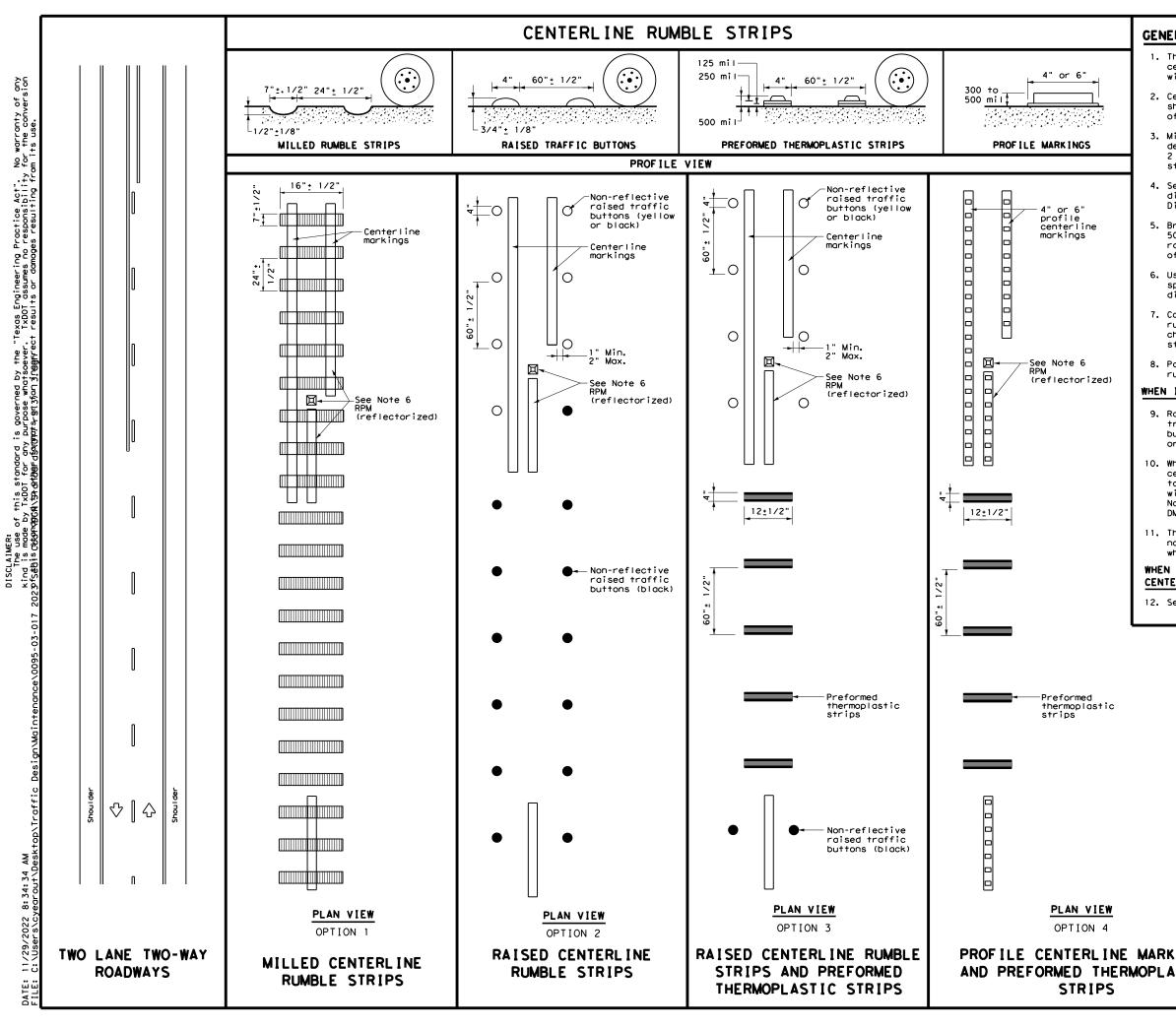
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

## NOTES:

1. Use stop bars with "Stop Here for Pedestrians" signs at unsignalized mid block cross walks.

 Use stop bars with "Stop Here on Red" signs at mid block crosswalks controlled by traffic signals or pedestrian hybrid beacons.





## GENERAL NOTES

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

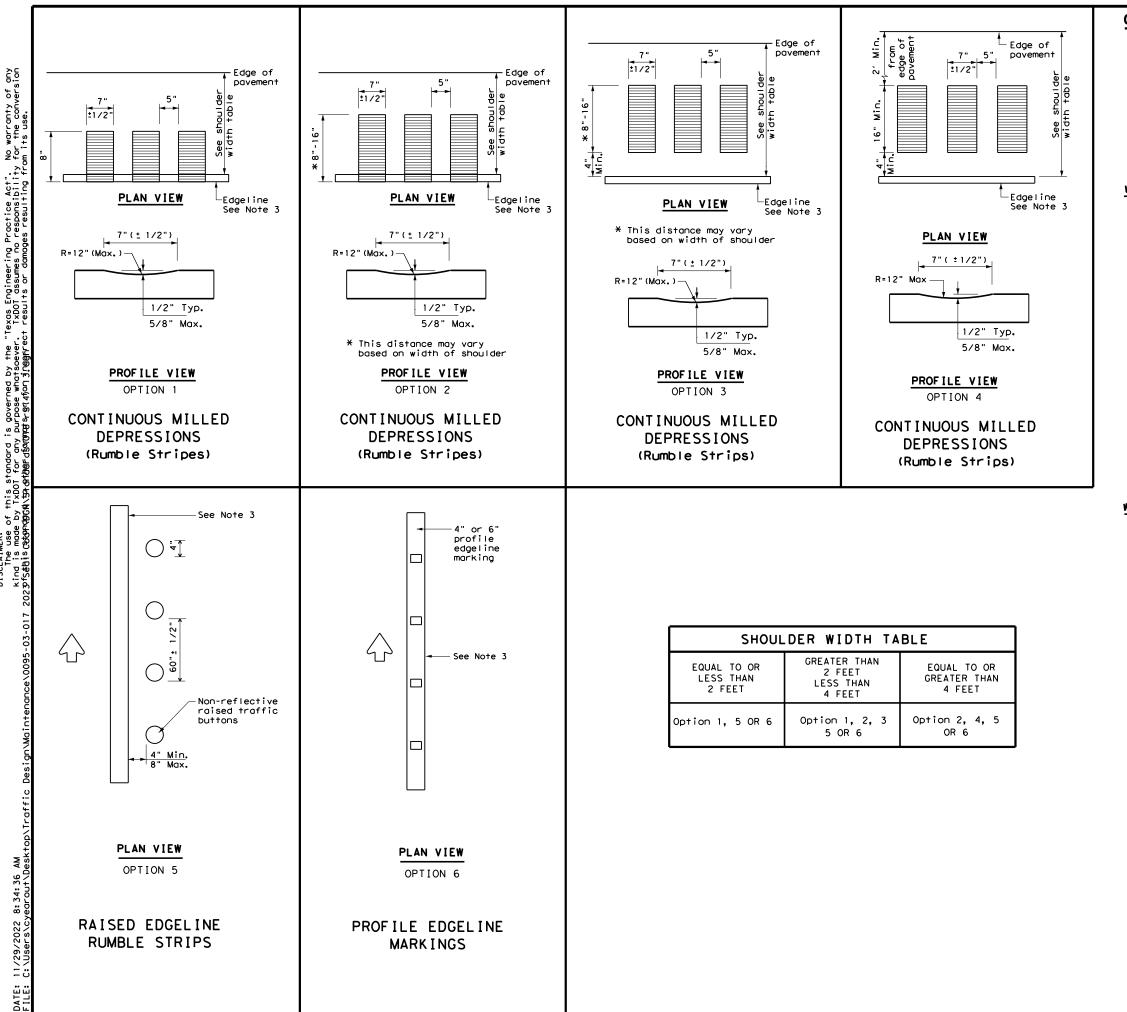
#### WHEN INSTALLING CENTERLINE RUMBLE STRIPS:

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

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

12. See standard sheet RS(4).

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			RS (3	) -	-13		
INGS	FILE:	rs(3)-13.dgn	DN: TX		CK: TXDOT DW:	TxDOT	ск: TxDOT
STIC	C TxDO		CONT	SECT	JOB		HIGHWAY
5.10		REVISIONS	0095	03	107,ETC.	US	80,ETC.
			DIST		COUNTY		SHEET NO.
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### GENERAL NOTES

- Rumble strips and profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.
- Milled rumble strips are preferred when adequate pavement depth is available. If pavement thickness is less than 2 inches, milled rumble strips shall not be used. Rumble strips shall not be milled or depressed into bridge decks.
- 3. Use Standard Sheet PM(2) for positioning, dimensioning, and spacing of all reflective raised pavement markers, pavement markings, and profile markings.
- 4. See the table below for determining what options may be used for edgeline rumble strips.

#### WHEN INSTALLING MILLED DEPRESSION EDGELINE RUMBLE STRIPS:

- 5. See dimensions for milled rumble strips. Other shapes and dimensions may be used if approved by the Traffic Operations Division.
- 6. Pavement markings can be applied over milled shoulder rumble strips to create an edgeline rumble stripe.
- 7. Breaks in edgeline rumble strips shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossings, intersections and driveways with high usage of large trucks when installed on conventional highways.
- 8. Rumble strips shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 9. Consideration should be given to noise levels when edgeline rumble strips are installed near residential areas, schools, churches, etc. A minimum of 3/8 inches depth of milled rumble strip may be considered in these areas.
- 10. On roadways with high bicycle activity, consideration should be given before the installation of edgeline rumble strips. Things to consider include size of rumble strips, rumble strip material and location of rumble strips on the shoulder If the designer determines that gaps are needed in the rumble strips due to bicycle use of the road, then follow the requirement shown in FHWA Technical Advisory T5040.39, or latest version. A detail of the spacing shall be included in the plans.

#### WHEN INSTALLING RAISED OR PROFILE EDGELINE RUMBLE STRIPS:

- 11. Raised rumble strips consisting of non-reflective raised traffic buttons may be used. Non-reflective raised traffic buttons can be affixed to asphalt or concrete with bitumen or adhesives, as per the manufacturer's recommendations.
- 12. Non-reflective traffic buttons shall be placed adjacent to the pavement marking delineating the edgeline when used as a rumble strip. The color of the button should match the color of the adjacent edgeline marking (white or yellow). The buttons will be paid for under Item 672, "Raised Pavement Markers." Non-reflective traffic buttons must meet the requirements of DMS-4300.
- 13. Non-reflective traffic buttons shall not be placed across exit or entrance ramps, acceleration and deceleration lanes, crossovers, gore areas or intersections with other roadways.
- 14. Breaks in edgeline rumble strips using raised traffic buttons shall occur at least 50 feet and no more than 150 feet in advance of bridges, railroad crossing, intersections and driveways with high usage of large trucks when installed on conventional highways.
- 15. The minimum distance between the edgeline and the buttons should be used if the shoulder is less than 8 feet in width.
- 16. Raised profile thermoplastic markings used as edgelines may substitute for buttons.



. <u>۱</u>	I. STORMWATER POLLUTION	PREVENTION PLAN-CLEAN	WATER ACT SECTION 402	III. CULTURAL RESOURCES		VI. HAZARDOUS MATERIALS OR CONTAMIN	ATION ISSUES
Practice Act" atsoever. dard to other se.	required for projects with disturbed soil must protec Item 506. List adjacent MS 4 Operate	ter Discharge Permit or Cons h 1 or more acres disturbed ct for erosion and sedimenta or(s) that receive discharge	soil. Projects with any tion in accordance with s from this project.	Refer to TxDOT Standard Specifications archeological artifacts are found duri archeological artifacts (bones, burnt work in the immediate area and contact [X] No Action Required	ng construction. Upon discovery of rock, flint, pottery, etc.) cease	hozardous materials by conducting safety mee making workers aware of potential hazards in	• • • •
erned by the "Texas Engineering Practice . e by TxDOT for any purpose whatsoever. y for the conversion of this standard to of or damage resulting from its use.	•	prior to construction activi f no adjacent MS 4 Operator( uired X Required Act	s) are affected.)	Action Number: 1. 2. 3.		compounds or additives. Provide protected st products which may be hazardous. Maintain pr Maintain an adequate supply of on-site spill In the event of a spill, take actions to mit in accordance with safe work practices, and	are not limited to the following categories: chemical additives, fuels and concrete curing corage, off bare ground and covered, for coduct labelling as required by the Act. response materials, as indicated in the SDS. igate the spill as indicated in the SDS,
dard is gov ind is mad esponsibilit rect results	accordance with TPDES F 2. Comply with the SW3P ar required by the Engined 3. Post Construction Site the site, accessible to 4. When Contractor project	nd revise when necessary to a	control pollution or rmation on or near r other inspectors, increase disturbed soil	164, 192, 193, 506, 730, 751 & 752 ir invasive species, beneficial landscar X No Action Required	tent practical. on Specification Requirements Specs 162, n order to comply with requirements for ping and tree/brush removal commitments. Required Action	Contact the Engineer if any of the followin * Dead or distressed vegetation (not ic * Trash piles, drums, canisters, barrel * Undesirable smells or odors * Evidence of leaching or seepage of su Does the project involve any bridge class s replacement(s) (bridge class structures nor Yes X No If "No", then no further action is require	Jentified as normal) Is, etc. ubstances structure rehabilitation(s) or t including box culverts)?
DISCLAIMER: The use of this stand No warranty of any k TXDOT assumes no i formats or for incor	water bodies, rivers, cr allowed in any sream cha approved temporary strea		ring or other work in any ret areas. No equipment is Water Mark except on	Action Number: 1. 2. 3.		If "Yes", then TxDOT is responsible for con Are the results of the asbestos inspection Yes No If "Yes", then TxDOT must retain a DSHS If the notification, develop abatement/mitigat activities as necessary. The notification 15 working days prior to scheduled demoliti	npleting asbestos assessment/inspection. positive (is asbestos present)? icensed asbestos consultant to assist with tion procedures, and perform management form to DSHS must be postmarked at least
	wetlands affected)	- PCN not Required (less tha - PCN Required (1/10 to <1/2		V. FEDERAL LISTED, PROPOSED THREA CRITICAL HABITAT, STATE LISTED AND MIGRATORY BIRDS TREATY ACT	SPECIES, CANDIDATE SPECIES	If "No", then TxDOT is still required to r scheduled demolition. In either case, the Contractor is responsib activities and/or demolition with careful o asbestos consultant in order to minimize co Any other evidence indicating possible hazo	ble for providing the date(s) for abatement coordination between the Engineer and
	Individual 404 Permit Other Nationwide Perm			Action Number: 1. Follow Special Notes.		on site. Hazardous Materials or Contaminat	ion Issues Specific to this Project:
	and check Best Management and post-project TSS. 1. 2. 3. The elevation of the ordin	nters of the US Permit applie Practices planned to contro nary high water marks of any ters of the US requiring the e Bridge Layouts.	of erosion, sedimentation areas requiring work	Special Notes: 1. Avoid harming all wildlife species if a leave the project site. Due diligence sho harming any wildlife species in the imple 2. If any of the listed species are obser- do not disturb species or habitat and com- work may not remove active nests from brid nesting season of the birds associated wid are discovered, cease work in the immedia	uld be used to avoid killing or mentation of transportation projects. ved, cease work in the immediate area, tact the Engineer immediately. The dges and other structures during th the nests. If caves or sinkholes	Action Number: 1. 2. 3. VII. <u>OTHER ENVIRONMENTAL ISSUES</u> (includes regional issues such as Edward) [X] No Action Required	ords Aquifer District, etc.)
N I N	(Note: If CORP Permit Erosion Temporary Vegetation Blankets/Matting	ices for applicable 401 ( not required, do not che Sedimentation Silt Fence Rock Berm	CK boxes.) Post-Construction TSS Vegetative Filter Strips Retention/Irrigation Systems	Engineer immediately. 3. The Migratory Bird Act of 1918 states that capture, collect, possess, buy, sell, trade or young, feather or egg in part or in whole, wit accordance within the Act's policies and regul remove all old migratory bird nests from any s done from October 1 to February 15. In additio to prevent migratory birds from building nest( In the event that migratory birds are encounte efforts to avoid adverse impacts on protected	transport any migratory bird, nest, hout a federal permit issued in ations. The contractor would tructure or trees where work would be on, the contractor would be prepared s) between February 15 to October 1. ared on-site during project construction,	Action Number: 1.	© 2022 Texas Department of Transportation Dallas District
Filled Out: 11/28/2022 Prepored by: JRHUGHES/DALCC		Triangular Filter Dike Sand Bag Berm Straw Bale Dike Brush Berms Erosion Control Compost Mulch Filter Berm and Socks Ks Compost Filter Berm and Soc Stone Outlet Sediment Traps Sediment Basins	ks 🗌 Vegetation Lined Ditches	CGP:       Construction General Permit       SW34         DSHS:       Texas Department of State Health Services       PCNs         FHWA:       Federal Highway Administration       PSL:         MOA:       Memorandum of Agreement       TCEC         MOU:       Memorandum of Understanding       TPDD         MS4:       Municipal Separate Stormwater Sewer System       TPWI         NBTat:       Migratory Bird Treaty Act       TxXD         NOT:       Notice of Termination       T&E:         NWP:       Nationwide Permit       USAG	C: Spill Preventian Control and Countermeasure P: Storm Water Pollutian Preventian Plan Project Specific Locatian Ou: Texas Commission on Environmental Quality Es: Texas Pollutant Discharge Elimination System	<u>GENERAL NOTE:</u> Any change orders and/or deviations from the final design must be reported to the Engineer prior to commencement of construction activities, as additional environmental clearance may be required.	ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)           FED.RD. DIV.NO.         FEDERAL AID PROJECT NO.         HIGHWAY NO.           6         SEE TITLE SHEET         US 80, ETC.           STATE         DISTRICT         COUNTY           TEXAS         DALLAS         KAUFMAN, ETC.           CONTROL         SECTION         JOB           0095         03         107, ETC.         79

FED.RD. DIV.NO.	FE	DERAL AID PROJECT NO.	HIGHWAY NO.
6	SEI	E TITLE SHEET	US 80, ETC.
STATE	DISTRICT	COUNTY	EIC.
TEXAS	DALLAS	KAUFMAN, ETC.	SHEET
CONTROL	SECTION	JOB	NO.
0095	03	107, ETC.	79

## A. GENERAL SITE DATA

1. PROJECT LIMITS: VARIOUS LOCATIONS IN COLLIN. DALLAS, DENTON, ELLIS, KAUFMAN, NAVARRO. AND ROCKWALL COUNTIES

- 2. PROJECT SITE MAPS:
- * Project Location Maps: The Title Sheet and Project Layout sheets 31, 35, 39, 43, 48, 53, & 57. * Drainage Patterns: N/A
- * Slopes Anticipated After Major Gradings or Areas of Soil Disturbance: N/A
- * Location of Erosion and Sediment Controls: N/A
- * Surface Waters and Discharge Locations: N/A
- * Project Specific Location(s) (PSL): To be determined by the project Construction Personnel.
- 3. PROJECT DESCRIPTION:

ROADWAY PREVENTATIVE MAINTENANCE CONSISTING OF SEAL COAT. PAVEMENT MARKINGS AND MARKERS

- 4. MAJOR SOIL DISTURBING ACTIVITIES:
  - NO PLANNED SOIL DISTURBANCE; WORK PERFORMED WITHIN ORIGINAL LINE AND GRADE.
- 5. EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER: CONSISTING OF NATIVE SOILS AND VEGETATION. WITH 100% EXISTING VEGETATIVE COVERAGE IN UNPAVED AREAS.
- 6. TOTAL PROJECT AREA: 924.026 Acres
- 7. TOTAL AREA TO BE DISTURBED: 0.00 Acres (0 %)
- 8. WEIGHTED RUNOFF COEFFICIENT

BEFORE CONSTRUCTION: N/A AFTER CONSTRUCTION: N/A

### 9. NAME OF RECEIVING WATERS:

COLLIN CO: FM 455; White Crk to East Fork Trinity Rvr (EFTR) above Lake Lavon(0821D=); FM 981; Bear Crk to Indian Crk to Pilot Grove Crk (PGC) (0821A); FM 982; Lake Lavon (0821), & drainage to Ticky Crk; FM 1461; Gentle Crk, Stover Crk, Franklin Branch, & Wilson Crk (082/C*); FM 1562: Lee Crk to Arnold Crk to Indian Crk to PGC (082/A); FM 2756: PGC (0821A); & Harrington Branch & Greenbrier Branch to Lake Lavon (0821); FM 2862; drainage to Harrington Branch to Lake Lavon (0821), drainage to Red Oak Crk to PGC (0821A); & drainage to Sister Grove Crk (0821B). >>> DALLAS CO: FM 1382; Mountain Crk above Mountain Crk Lake (O84IW); John Penn Branch to Joe Pool Lake (O838); & Bentle Branch to Tenmile Crk to Upper Trinity Rvr (UTR) (0805+); US 67: Red Oak Creek (0805A) to Upper Trinity River (UTR) (0805+); & Bagget Branch to Joe Pool Lake (0838). >>> DENTON CO: FM 156: Jordan Crk to Dry Fork Hickory Crk to Hickory Crk (HC) to Lewisville Lake (0823); & Moore's Branch to Clear Crk (0823C+); FM 455: North HC to HC to Lewisville Lake (0823); Boom Branch & Clear Crk (0823C-); FM 1173: North HC & South HC, to HC to Lewisville Lake (0823); FM 1385: Mustang Crk to Little Elm Crk (0823A); & Pecan Crk to Lewisville Lake (0823); FM 1830; HC. Fincher Branch, & Loving Branch, to Lewisville Lake (0823). >>> ELLIS CO: FM 660: Hare Prong & Bolivar Branch to Smith Crk. Fourmile Crk. & Village Crk. to UTR (0805*); FM 55: Chambers Crk above Richland-Chambers Reservoir (RCR) (0814-); & Mill Crk (0814A); FM 308: drainage to Mill Crk (08/4A); FM 566: drainage to Richland Crk (RC) (08/4A); FM 664: Little Crk, drainages to Shiloh Crk, Slippery Crk, & Brushy Crk, & Red Oak Crk (ROC) (0805A): South Grove Crk to North Grove Crk to Grove Crk, & Long Branch to Bear Crk, to ROC (0805A); FM 813: Grove Crk to ROC (0805A), & Smith Crk to UTR (0805+); FM 879: Bolivar Branch to Smith Crk. & Fourmile Crk & drainage to Village Crk, to UTR (0805*); FM 984; Elm Branch to Big Onion Crk to Chambers Crk above RCR (08/4*): & drainage to Bardwell Reservoir (08/5): FM 877: Waxahachie Crk (08/5A): Lake Waxahachie (08/6): & Long Branch & Big Onion Crk to Chambers Crk above RCR (0814-). >>> KAUFMAN CO: FM 148: drainage to Bois d'Arc Crk to UTR (0805-). FM 429: drainages to Williams Crk & Muddy Cedar Crk to Cedar Crk above Cedar Crk Reservoir (CCR) (08/88*); FM 1390: Warsaw Crk to Old Channel EFTR to EFTR (08/9*): & Big Brushy Crk & Little Brushy Crk to KC (08/8C*): FM 1836: Prairie Branch to Bla Cottonwood Crk, & Little Cottonwood Crk, to KC (08/8C=); & Jones Crk & Williams Crk to Cedar Crk above CCR (08/88-); FM 2965: drainage to Rocky Crk to Cedar Crk above CCR (08/88-); SH 243: drainage to Prairie Branch to Big Cottonwood Crk, & Little Cottonwood Crk, to KC (OBIBC*); & Jones Crk & Williams Crk to Cedar Crk above CCR (OBIBB*); US 80: Buffalo Crk (08/9B); Mustang Crk & Buffalo Crk to EFTR (08/9*); & Big Brushy Crk to KC (08/8C*). >>> NAVARRO CO: BU 287T: Town Branch & Mesquite Branch to Post Oak Crk (POC) (0836D); SH 22: Elm Branch to Mill Crk (0814A); FM 55: Hughes Branch to RC (0837+), SS 294: drainage to RCR (0836+), FM 637: Cedar Crk (0836B), & drainage to RCR (0836+), FM 642: drainages to Board Crk & POC, to RCR (0836*); FM 709: Battle Crk & Treadwell Branch to RC (0837*); Elm Crk, Mesquite Branch & Town Branch, to POC (0836D); FM II26; Briar Crk & Rush Crk to RC (0837C); & Cummins Crk & Cedar Crk above RCR (0836+); FM 2555: drainage to Cedar Crk to RCR (0836+); FM 2859: RCR (0836+). >>> ROCKWALL CO: FM 1141: drainage to Camp Crk to Lake Ray Hubbard (LRH) (0820): & Tributary to Squabble Crk to LRH (0820): SH 276: Klutts Branch to South Fork Sabine Rvr (0507G-). >>> ALL: Numerous unnamed tributaries & wetlands associated with the identified waters. >>> *Note: Water quality impaired by: Bacteria in water (Recreation Use): 0507G, 0805, 08/4, 08/8B, 08/8C, 08/9, 082/C, 082/D, 0823C & 0836. Depressed oxygen in water: 0836B. Dioxin & PCBs in edible tissue: 0805. Sulf ate in water:08/5 & 08/9.

10. PROJECT SW3P Binder: A. For projects disturbing one to five acres, TxDOT will maintain a SW3P Binder at the project field office (If there is not a project field office, should be kept at the Area Office) which contains the following: Index Sheet, TCEQ Signature Authority, TxDOT's and Contractor's Small Construction Site Notice, SW3P Inspector Qualification Statements, EPIC Sheet, SW3P Sheet, Site Location Maps, Inspection and Maintenance Reports (Form 21/8), Construction Stage Gate Checklist(s) (CSGC), Stored Material Lists specifying associated control measures and the Appendix which contains the TPDES Construction General Permit, TxDOT and Contractor MS4 Operator Notification(s) and the Construction PSL Permits per all applicable requirements. B. For projects disturbing 5 acres or more, TxDOT will follow the actions listed in (IO.A.) above with the addition of the following: TxDOT and Contractor Notice Of Intent (N.O.I.) and Fee Payment Form, TxDOT and Contractor Large Construction Site Notice (to be used instead of 2. INSPECTION: Small Site Notice), and TPDES Permit Coverage Notice.

C. For projects disturbing less than one acre, actions described in (IO.A.) and (IO.B.) above are not required. Acreage is calculated by adding Total Area To Be Disturbed Acres on project (See *7 above) and the PSL(s) acreage located within one mile of project.

### B. EROSION AND SEDIMENT CONTROLS

1. <u>SOIL STABILIZATION PRACTICES</u>: (Select T = Temporary or P = Permanent, as applicable)

_____

____

P PRESERVATION OF NATURAL RESOURCES

FLEXIBLE CHANNEL LINER

____ COMPOST MANUFACTURED TOPSOIL

RIGID CHANNEL LINER

_____ SOIL RETENTION BLANKET

____ OTHER: (Specify Practice)

_____ VERTICAL TRACKING

- _____ TEMPORARY SEEDING
- MULCHING (Hay or Straw) _____ BUFFER ZONES
- ____ PLANTING
- _____ SEEDING
- _____ SODDING

2. <u>STRUCTURAL PRACTICES</u>: (Select T = Temporary or P = Permanent, as applicable)

- _____ SILT FENCES
- ____ EROSION CONTROL LOGS
- EROSION CONTROL COMPOST BERMS (Low Velocity) _____ ROCK FILTER DAMS
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- ____ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- ____ DIVERSION DIKE AND SWALE COMBINATIONS
- ____ PIPE SLOPE DRAINS
- ____ PAVED FLUMES
- ____ ROCK BEDDING AT CONSTRUCTION EXIT
- TIMBER MATTING AT CONSTRUCTION EXIT _____
- CHANNEL LINERS
- _____ SEDIMENT TRAPS SEDIMENT BASINS
- ____ STORM INLET SEDIMENT TRAP _____ STONE OUTLET STRUCTURES
- ____ CURBS AND GUTTERS
- ____ STORM SEWERS
- ____ VELOCITY CONTROL DEVICES
- _____ OTHER: (Specify Practice)

NOTE: TOP OF BMP'S SHOULD NOT BE HIGHER THAN ROADWAY ELEVATION AS NOT TO FLOOD ROADWAY UNLESS PRIOR APPROVAL FROM ENGINEER IS OBTAINED.

3. STORM WATER MANAGEMENT: (Example Below - May be used as applicable, or revised)

A. Storm water drainage will be provided by ditches, inlets, and storm water systems which carry drainage within the R.O.W. to the lows within the roadway and project site which drains to natural facilities.

B. Other permanent erosion controls include hydraulic design to limit structure outlet velocities and grading design generally consisting of 4 : I or flatter slopes with permanent vegetative cover.

4. STORM WATER MANAGEMENT ACTIVITIES: (Sequence of Construction)

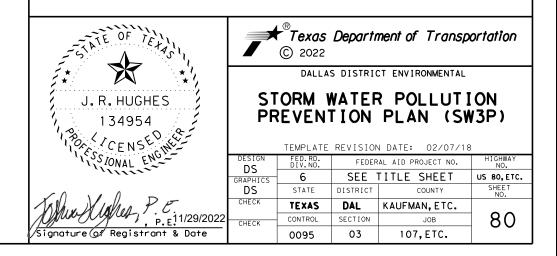
AVOID STORING PORTABLE SANITARY UNITS. STOCKPILES, OR CHEMICALS WITHIN 50 FEET OF A RECEIVING WATER OR DRAINAGE CONVEYANCE.

INSTALL SW3P CONTROL DEVICES (BMPs) TO PROTECT INLETS OR RECEIVING WATERS AS NEEDED, AS DIRECTED, OR AS AUTHORIZED BY PROJECT ENGINEER.

WHEN CONSTRUCTION ACTIVITES ARE COMPLETED IN A GIVEN PROJECT AREA. OR AS DIRECTED OR AUTHORIZED BY PROJECT ENGINEER, REMOVE CONTROL AREAS SW3P (BMP) CONTROLS.

### 5. NON-STORM WATER DISCHARGES:

Filter non-storm water discharges, or hold in retention basins, before being allowed to mix with storm water. These discharges consist of, but not limited to, non-polluted ground water, spring water, foundation or footing drain water, water used for dust control or pavement washing and vehicle washwater containing no detergents.



A TxDOT Inspector will perform a regularly scheduled SW3P inspection every 7 calendar days. An Inspection and Maintenance Report, signed by the TxDOT Inspector and the Contractor, will be filed for each inspection. Revise/clean/repair/replace each BMP control device in accordance with the current Field Inspection and Maintenance Report (Form 21/8) and Item I (Maintenance) above. 3. WASTE MATERIALS:

. MAINTENANCE:

As a minimum, any products in the following categories are considered to be hazardous: Paints, Acids, Solvents, Fuels, Asphalt Products, Chemical Additives for Soil Stabilization, and Concrete Curing Compounds or Additives. When storing hazardous material on the project site, or at a Project Specific Location, take all practicable precaution to prevent and/or contain any spillage of these materials. In the event of a spill, contact the spill coordinator immediately.

# 5. SANITARY WASTE:

# 6. CONSTRUCTION VEHICLE TRACKING:

On a regular basis, or as may be directed, dampen haul roads for dust control and construct construction entrances/exits. Provide for a motorized broom or vacuum type sweeper to be available on a daily basis, or as may be directed, to remove sediment from payed roadways on project, abutting and traversing the project site.

### 7. MANAGEMENT PRACTICES:

A. Construct disposal areas, stockpiles, haul roads and PSL's in a manner that will minimize and control the amount of sediment that may enter receiving waters. Do not locate disposal areas in any wetland, waterbody or streambed.

B. Locate construction staging areas, vehicle maintenance and PSL's areas in a manner to minimize the runoff of pollutants.

C. When working in or near a wetland, install and maintain operating soil erosion and sediment controls at all times during construction and isolate the work from the wetland.

D. Clear all waterways as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, debris or other obstructions placed during construction operations that are not a part of the finished work.

F. Sediment to be removed from roadways daily or when work begins after weather events if construction activities have ceased due to weather event.

# C. OTHER REQUIREMENTS & PRACTICES

Maintain all erosion and sediment controls in good working order. Perform any necessary cleaning/repairs/replacements at the earliest possible date prior to next rain event, but no later than 7 calendar days, Ensure the surrounding ground has dried sufficiently to prevent damage from equipment. "Too Wet" is the only reason for not adhering to timeframes described. When construction activities permanently or temporarily cease and are not expected to resume for 14 or more days on a disturbed portion of the site, stabilization measures must be initiated immediately.

On a daily basis, or as may be directed, collect all waste materials, trash and debris from the construction site and deposit into a metal dumpster having a secure cover and which meets all state and local city solid waste management requirements. Empty the dumpster as required by regulation, or as may be directed, at a local approved landfill site. Do not bury construction waste on the construction project site.

### 4. HAZARDOUS WASTE & SPILL REPORTING:

Use a licensed sanitary waste management contractor to collect all sanitary waste from portable units as may be required by local regulation, or as directed.

E. Procedures and/or practices should be taken to control dust.

### I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)

DOT #:See chart		
Crossing Type: See chart		
RR Company Owning Track at Crossing: See chart		
Operating RR Company at Track: See chart		
RR MP: See chart		
RR Subdivision: See chart		
City: See chart		
County: See chart		
CSJ at this Crossing:		
Highway/Roadway name crossing the railroad: See chart		
# of regularly scheduled trains per day at this crossing:	See	char
# of switching movements per day at this crossing: See cha	rt	
% of estimated contract cost of work within railroad ROW:	See	char

Scope of Work at this Crossing to Be Performed by State Contractor: State's Contractor will be performing seal coat

in the RR ROW.

Scope of Work at this Crossing to Be Performed by Railroad Company: None

** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned

#### II. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)

None

#### III. FLAGGING & INSPECTION

# of Days of Railroad Flagging Expected: ____

On this project, night or weekend flagging is:

Expected

Not Expected

Flagging services will be provided by:

Railroad Company: TxDOT will pay flagging invoices

🕅 Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT

Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.

Contact Information for Flagaina

- UPRR UP.info@railpros.com
- Call Center 877-315-0513, Select #1 for flagging BNSF - BNSF.info@railpros.com
- Call Center 877-315-0513, Select #1 for flagging
- KCS KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630

OTHERS	
--------	--

DOT#	021910E	0208135	020572F	597283A	5972730
Crossing Type	RR OVER	AT GRADE	AT GRADE	AT GRADE	AT GRADE
RR Owner	BNSF	BNSF	BNSF	BNSF	BNSF
RR Operator	BNSF	BNSF	BNSF	BNSF	BNSF
RR MP	33.610	383.510	383.510	259.980	248.380
RR Subdivision	WARD INDUSTRIAL	FORT WORTH	FORT WORTH	DFW	DFW
City	CEDAR HILL	KRUM	KRUM	BARDWELL	EMHOUSE
County	DALLAS	DENTON	DENTON	ELLIS	NAVARRO
CSJ at this Crossing	0261-02-082	1059-01-049	1059-01-049	1211-02-020	1289-01-03
Roadway at Xing	US 67	FM 1173	FM 1173	FM 984	FM 1126
Trains per day	1	0	26	12	10
Switches per day	0	0	0	0	0
Estimated contract cost within railroad ROW	<1%	<1%	<1%	<1%	<1%

### IV. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD

On this project, construction work to be performed by a railroad company is: Required

Not Required

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

### V. RAILROAD INSURANCE REQUIREMENTS

Railroad reference number shall be provided by TxDOT CST or DO.

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

Insurance policies must be issued for and on behalf of the Railroad. Where more than one Railroad Company is operating on the same right of way or where several Railroad Companies are involved and operate on their own separate rights of way, provide separate insurance policies in the name of each Railroad Company.

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

Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000 combined single limit

Railroad Protective Liability					
	Not Required				
$\bowtie$	Non - Bridge Projects	\$2,000,000 / \$6,000,000			
	Bridge Projects	\$5,000,000 / \$10,000,000			
	Other				

## VI. CONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

on project.

Not Required

Not Required

Required

### VIII. SUBCONTRACTORS

In Case of Railroad Emergency COIL BNSF RAILROAD EMERGENCY LINE at 800-832-5452 Location: See Table RR Milepost: See Table Subdivision: See Table

—	RR Subdivision	WARD
	City	CEDA
	County	DA

On this project, an ROE agreement is:

#### Not Required

- Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3)
- Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.
- Required: Contractor to obtain (see Item 5, Article 8.4)
- With the following railroad companies: _____
- To view previously approved ROE Agreement templates agreed upon between the State and Railroad, see:
- http://www.txdot.gov/inside-txdot/division/rail/samples.html
- Approved ROE Agreement templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed ROE agreement between the Contractor and the Railroad if required

Contractor must incorporate Construction Inspection into anticipated construction schedule.

Required: Contact Information for Construction Inspection:

VII. RAILROAD COORDINATION MEETING

On this project, a Railroad Coordination Meeting is:

See Item 5, Article 8.1 for more details.

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are required to maintain the same insurance coverage as required of the Contractor.

### IX. EMERGENCY NOTIFICATION

Texas Department	of Tra	nsp	ortation			ail ivision
RAILROAD S						ORK
FILE: RR Scope of Work.dgn	DN: TX[	DOT 10	CK: JH	DW:	CY	CK:
FILE: RR Scope of Work.dgn ⓒTxDOT June 2014	DN: TX[ CONT	)OT sect	ск: JH Job	DW:	CY	CK: HIGHWAY
© TxDOT June 2014 REVISIONS		SECT			•	
© TxDOT June 2014	CONT	SECT	JOB		•	HIGHWAY

0.0.0 0	Contractor will be performing seal coat	
and pave	ement marking installation in the RR ROW.	
Scope of Wor	k at this Crossing to Be Performed by Railroad Company:	
None		
None		
		IV
** Choose: H	lighway Overpass, Highway Underpass, At Grade, Pedestrian, 1/Abandoned	IV.
** Choose: F or Closed		(

### III. FLAGGING & INSPECTION

# of Days of Railroad Flagging Expected: ____

On this project, night or weekend flagging is:

### Expected

Not Expected

DOT #:See chart

RR MP: See chart

City: See chart

CSJ at this Crossing:

County: See chart

Crossing Type: See chart

RR Subdivision: See chart

Flagging services will be provided by:

Railroad Company: TxDOT will pay flagging invoices

🛛 Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)

RR Company Owning Track at Crossing: _____ See chart

Highway/Roadway name crossing the railroad: See chart

* of regularly scheduled trains per day at this crossing: See chart

Operating RR Company at Track: See chart

Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.

Contact Information for Flagging:

- UPRR UP.info@railpros.com
- Call Center 877-315-0513, Select #1 for flagging ☐ BNSF - BNSF.info@railpros.com
- Call Center 877-315-0513, Select #1 for flagging
- KCS KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services
  - bottomline076@aol.com, 903-767-7630

OTHERS

DOT NO.	021700P	0217265
Crossing Type	At-Grade	At-Grade
RR Company	KCS	KCS
Operating RR Co	KCS	KCS
RR MP	100.640	108.16
RR Sub	ALLIANCE	Corsicana
City	DENTON	DENTON
County	DENTON	DENTON
CSJ	1785-01-041	1059-01-049
Highway	FM 1830	FM 1173
trains per day	8	8
switches per day	0	0

### TRUCTION WORK TO BE PERFORMED BY THE RAILROAD

s project, construction work to be performed by a railroad company is: ired

Required

nate with TxDOT for any work to be performed by the Railroad Company. nust issue a work order for any work done by the Railroad Company to the work being performed.

### V. RAILROAD INSURANCE REQUIREMENTS

Railroad reference number shall be provided by TxDOT CST or DO.

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

Insurance policies must be issued for and on behalf of the Railroad. Where more than one Railroad Company is operating on the same right of way or where several Railroad Companies are involved and operate on their own separate rights of way, provide separate insurance policies in the name of each Railroad Company.

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

Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000 combined single limit

Railroad Protec	ctive Liability
Not Required	
Non - Bridge Projects	\$2,000,000 / \$6,000,000
Bridge Projects	\$5,000,000 / \$10,000,000
Other	
	Non - Bridge Projects Bridge Projects

🔀 Not Required

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

Contractor must incorporate Construction Inspection into anticipated construction schedule.

Not Required

Not Required Required

### VIII. SUBCONTRACTORS

### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency Call KCS RR Railroad Emergency Line at 877-527-9464 Location: DOT See table RR Milepost See toble Subdivision See table

### VI. CONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

On this project, an ROE agreement is:

- Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3)
- Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.
- Required: Contractor to obtain (see Item 5, Article 8.4)
- With the following railroad companies: ____
- To view previously approved ROE Agreement templates agreed upon between the State and Railroad, see:
- http://www.txdot.gov/inside-txdot/division/rail/samples.html
- Approved ROE Agreement templates are not to be modified by the Contractor.

Required: Contact Information for Construction Inspection:

VII. RAILROAD COORDINATION MEETING

On this project, a Railroad Coordination Meeting is:

See Item 5, Article 8.1 for more details.

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are required to maintain the same insurance coverage as required of the Contractor.

Texas Department	of Tra	nsp	ortation			ail ivision
RAILROAD S Project SF						ORK
FILE: RR Scope of Work.dgn	DN: DS		ск: ЈН	DW:	CY	CK:
FILE: RR Scope of Work.dgn C TxDOT June 2014	DN: DS CONT	SECT	ск: JH Job	DW:	CY	CK: HIGHWAY
© TxDOT June 2014 REVISIONS					•	
© TxDOT June 2014	CONT		JOB		•	HIGHWAY

HIGHWAY UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED	On this proje	ect, construction work	to be performed by a railroad company
DOT *: $765442T$	🖂 Not Required		
Crossing Type: <u>AT GRADE</u> RR Company Owning Track at Crossing: UPRR			
Operating RR Company at Track: UPRR			to be performed by the Railroad Compan ny work done by the Railroad Company
RR MP: 219.040		work being performed.	ly work done by the Karn odd company
RR Subdivision: ENNIS			
City: <u>RICE</u> County: <u>NAVARRO</u> CSJ at this Crossing: <u>1289-01-034</u>	V. RAILROAD	NSURANCE REQUIREME	NTS
Highway/Roadway name crossing the railroad: FM 1126	Railroad ref	erence number shall be	provided by TxDOT CST or DO.
# of regularly scheduled trains per day at this crossing:8			nsurance requirements with
<pre># of switching movements per day at this crossing:0 % of estimated contract cost of work within railroad ROW: &lt;1%</pre>			s are subject to change without notice
Scope of Work at this Crossing to Be Performed by State Contractor:	more than on where severa	e Railroad Company is d I Railroad Companies ar	or and on behalf of the Railroad. When operating on the same right of way or e involved and operate on their own
State's Contractor will be performing seal coat	separate rig each Railroa		parate insurance policies in the name of
and pavement marking installation in the RR ROW.			
Scope of Work at this Crossing to Be Performed by Railroad Company:	insurance co		e to the Contractor for providing the any deductibles. These costs are S.
None	Type of Insu		
			Amount of Coverage (Minimum)
** Choose: Highway Overpass, Highway Underpass, At Grade, Pedestrian, or Closed/Abandoned	Workers Comp	ensation	\$500,000 / \$500,000 / \$500,000
I. OTHER PROJECT WORK WITHIN RAILROAD RIGHTS-OF-WAY (ROW)		eneral Liability	\$2,000,000 / \$4,000,000
I. OTHER PRODECT WORK WITHIN RATEROAD RIGHTS-OF-WAT (ROW)	Business Auto	omobile	\$2,000,000 combined single limit
None			
		Railroad Pro	tective Liability
III. FLAGGING & INSPECTION		Not Required	
# of Days of Railroad Flagging Expected:			
On this project, night or weekend flagging is:	$\square$	Non - Bridge Projects	\$2,000,000 / \$6,000,000
Expected			
Not Expected		Bridge Projects	\$5,000,000 / \$10,000,000
Flagging services will be provided by:		0ther	
Railroad Company: TxDOT will pay flagging invoices			
Outside Party: Contractor will pay flagging invoices, to be reimbursed by TxDOT			
Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30 day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not			
ready for scheduled flaggers, any flagging charges will be paid by Contractor. Contact Information for Flagging:			
✓ UPRR - UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging ■ BNSF - BNSF.info@railpros.com			
Call Center 877-315-0513, Select #1 for flagging			
KCS - KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging - Bottom Line On-Track Safety Services			
bottomline076@aol.com, 903-767-7630			
M ATUFRS Railpros, Inc. John Green			
X OTHERS 44179105, 11C. John Green 949-402-5027 John Green@Railpros.com			

### VI. CONTRACTOR'S RIGHT OF ENTRY (ROE) AGREEMENT

- Not Required
- Required: TxDOT CST to assist in obtaining with the UPRR (see Item 5, Article 8.3)

http://www.txdot.gov/inside-txdot/division/rail/samples.html

on project.

Contractor must incorporate Construction Inspection into anticipated construction schedule.

Not Required

0n	thi	s	pro
$\boxtimes$	Not	Re	qui

_	
	Required

# VIII. SUBCONTRACTORS

Call UPRR

On this project, an ROE agreement is:

- Required: UPRR Maintenance Consent Letter. TxDOT CST to assist.
- Required: Contractor to obtain (see Item 5, Article 8.4)
- UPRR With the following railroad companies: ____ To view previously approved ROE Agreement templates agreed upon between
- the State and Railroad, see:

Approved ROE Agreement templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed ROE agreement between the Contractor and the Railroad if required

Required: Contact Information for Construction Inspection:

VII. RAILROAD COORDINATION MEETING

roject, a Railroad Coordination Meeting is: ired

See Item 5, Article 8.1 for more details.

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are required to maintain the same insurance coverage as required of the Contractor.

### IX. EMERGENCY NOTIFICATION

In Case of Railroad Emergency Railroad Emergency Line at 888-877-7267 Location: DOT# 765442T RR Milepost 219,040 Subdivision ENNIS

Texas Department	of Tra	nsp	ortation			ail Ivision
RAILROAD						ORK
FILE: RR Scope of Work.dgn	DN: TX	TOC	ск: ЈН	DW:	CY	Ск:
FILE: RR Scope of Work.dgn	DN: TX CONT	DOT	CK: JH JOB	Dw:	CY	CK: HIGHWAY
© TxDOT June 2014 REVISIONS	-	SECT	-	-	•	
© TxDOT June 2014	CONT	SECT	JOB	-	•	HIGHWAY

### PART 1 - GENERAL

#### DESCRIPTION 1.01

This project includes construction work within the right of way and/or properties of the Railroad and adjacent to its tracks, wire lines and other facilities. These sheets describe the minimum special requirements for coordination with the Railroad when working upon, over or under Railroad Right of Way or when impacting current or future Railroad operations. Coordinate with the Railroad while performing the work outlined herein, and afford the same cooperation with the Railroad as with TxDOT. Complete all submittals and work in accordance with TxDOT Standard Specifications, Railroad Guidelines and AREMA recommendations as modified by these minimum special requirements or as directed in writing by the Railroad Designated Representative.

For purposes of this project, the Railroad Designated Representative is the person or persons designated by the Railroad Manager of Industry and Public Projects to handle specific tasks related to the project.

#### 1.02 REQUEST FOR INFORMATION / CLARIFICATION

Submit Requests for Information ("RFI") involving work within any Railroad Right of Way to the TxDOT Engineer. The TxDOT Engineer will submit the RFI to the Railroad Designated Representative for review and approval for RFI's corresponding to work within Railroad Right of Way. Allow six (6) weeks total time for review and approval, which includes four (4) weeks for review and approval by the Railroad.

### 1.03 PLANS / SPECIFICATIONS

TxDOT has received written Railroad approval of the plans and specifications for this project. Any revisions or changes in the plans after award of the Contract must have the approval of TxDOT and the Railroad.

### PART 2 - UTILITIES AND FIBER OPTIC

Construct all utility installations in accordance with current AREMA recommendations, Railroad, TxDOT and owning utility specifications and requirements. Railroad general guidelines can be found on the Railroad website or by contacting the Railroad Designated Representative.

### PART 3 - CONSTRUCTION

#### 3.01 GENERAL

- A. Perform all work in compliance with all applicable Railroad, Federal Railroad Administration (FRA), and TxDOT rules and regulations. Arrange and conduct work in a manner that does not endanger or interfere with the safe operation of the tracks and property of the Railroad and the traffic moving on such tracks, or the wires, signals and other property of the Railroad, its tenants or licensees, at or in the vicinity of the Work. The safe operation of railroad train movements takes precedence over any work to be performed by the Contractor. The Contractor is responsible for train delay cost and lost revenue claims due to any delays or interruption of train operations resulting from Contractor's construction or other activities.
- B. Construction activities within 15 feet of the operational tracks will only be allowed if absolutely necessary and the Railroad's Designated Representative grants approval. Construction activities within 15 feet of the operational track(s) preferably allow the tracks to stay operational. In such cases, coordination and approval by the Railroad Track Manager is required with regard to schedule, flagging, and slow orders. See Sections 3.07 and 3.08 for additional information.
- C. Provide track protection for all work equipment (including rubber tired equipment) operating within 25 feet from nearest rail. When not in use, keep Contractor machinery and materials at least 50 feet from the Railroad's nearest track.
- D. Vehicular crossings of railroad track are allowed only at existing crossings, or haul road crossings developed with Railroad approval.
- E. The Contractor is also advised that new railroad facilities these facilities are delineated in the plans. Be aware of the limits of responsibilities and coordinate efforts with the Railroad and TxDOT.
- F. Railroad requirements do not allow work within 50 feet of track centers when a train passes the work site and all personnel must clear the area within 50 feet of the track centerline and secure all equipment. Additional allowances may be pursued as outlined in 3.02 and 3.03.
- G. All permanent clearances shall be verified before project closing.

#### 3.02 RAILROAD OPERATIONS

- A. Trains and/or equipment are expected on any track, at any in either direction. Become familiar with the train time, schedules in this location and structure bid assuming intermittent track windows in this period, as defined in Paragraph B that follows.
- B. All railroad tracks within and adjacent to the contract site are active, and rail traffic over these facilities shall be maintained throughout the Project. Activities may include both through moves and switching moves to local customers. raircad traffic and operations will occur continuously throughout the day and night on these tracks and shall be maintained at all times as defined herein. Coordinate and schedule the work so that construction activities do not interfere with railroad operations.
- C. Coordinate work windows with TxDOT and the Railroad's Designated Representative. Types of work windows include Conditional Work Windows and Absolute Work Windows, as defined below:
  - Conditional Work Window: A Conditional Work Window is a period of time that railroad operations have priority over construction activities. When construction activities may occur on and/or adjacent to the railroad tracks within 25 feet of the nearest track, a railroad flag person will be required. At the direction of the railroad flag person, upon approach of a train, and when trains are present on the tracks, the tracks must be cleared (i.e., no construction equipment, materials or personnel within 25 feet, or as directed by the Railroad Designated Representative, from the tracks). Conditional Work Windows are available for the Project.
  - 2. Absolute Work Window: An Absolute Work Window is a period of Absolute work window: An Absolute work window is a period of time that construction activities are given priority over railroad operations. During this time frame, the designated railroad track(s) will be inactive for train movements and may be fouled by the Contractor. At the end of an Absolute Work Window, the railroad tracks and/or signals must be completely operational for train operations and all Railroad, Public Utilities Commission (PUC) and FRA requirements, codes and regulations for operational tracks must be satisfied. In the situation where the operating tracks and/or signals have been affected, the Railroad will perform inspections of the work prior to placing that track back into service. Railroad flag persons will be required for construction activities requiring an Absolute Work Window. Absolute Work Windows will not generally be granted. Any request will require a detailed explanation for Railroad review.

### 3.03 RIGHT OF ENTRY. ADVANCE NOTICE AND WORK STOPPAGES

- A. Do not perform any work within Railroad Right of Way without a valid executed Right of Entry Agreement if required on this project.
- B. Give advance notice to the Railroad as required in the "Contractor's Right of Entry Agreement" before commencing work in connection with construction upon or over Railroad Right of Way and observe the Railroad's rules and regulations with respect thereto.
- C. Perform all work upon Railroad Right of Way in a manner to avoid interference with or endanger the operations of the Railroad. Whenever work may affect the operations or safety of trains, submit the work method to the Railroad Designated Representative for approval. Approval does not relieve the Contractor from liability. Do not commence any work which requires flagging service or inspection service until the flagging protection required by the Railroad is available at the job site. See Section 3.15 for railroad flagging requirements.
- D. Make requests in writing for both Absolute and Conditional Work Windows, at least 30 days in advance of any work. Include in the written request: Exactly what the work entails.

  - The days and hours that work will be performed. The exact location of work, and proximity to the tracks. The type of window requested and the amount of time requested. 3.
- The designated contact person.

Provide a written confirmation notice to the Railroad at least 48 hours before commencing work in connection with approved work windows when work is within 25 feet of nearest rail. Perform all work in accordance with previously approved work plans.

E. Make provisions to protect operations and property of the Railroad should . Make provisions to protect operations and property of the Railroad should a condition arising from, or in connection with the work, require immediate and unusual action. If in the judgment of the Railroad Designated Representative such provisions are insufficient, the Railroad Designated Representative may require or provide such provisions as deemed necessary. In any event, such provisions shall be at the Contractor's expense and without cost to the Railroad or TxDOT. The Railroad or TxDOT shall have the right to order the Contractor to temporarily cease operations in the event of an emergency or, if in the opinion of the Railroad Designated Representative, the Contractor's operations could endanger railroad operations. In the event of such an order, immediately notify TxDOT of the order.

#### INSURANCE 3.04

#### COOPERATION 3.06

#### MINIMUM CONSTRUCTION CLEARANCES FOR FALSEWORK AND OTHER 3.07 TEMPORARY STRUCTURES

of construction:

#### 3,08

Do not begin work upon or over Railroad Right of Way until furnishing the Railroad with the insurance policies, binders, certificates and endorsements required by the "Contractor's Right of Entry Agreement", and until the Railroad Designated Representative has advised TxDOT that such insurance is in accordance with the Agreement.

#### 3.05 RAILROAD SAFETY ORIENTATION

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

"UPRR,BNSF,KCS/TEXMEX will not accept on-track safety training certificates from other railroads. Refer to Railroad specific contractor right of entry for training information."

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

The Railroad will cooperate with Contractor so that work may be conducted in an efficient manner, and will cooperate with Contractor in enabling use of Railroad Right of Way in performing the work.

Abide by the following minimum temporary clearances during the course

A. 15' - 0" (BNSF) (UPRR) and 14'-0" (KCS) horizontal from

centerline of track B. 22' (KCS) and 21' - 6" (UPRR & BNSF) vertically above top of rail.

For construction clearance less than listed above, obtain local Railroad Operating Unit review and approval.

#### APPROVAL OF REDUCED CLEARANCES

A. Maintain minimum track clearances during construction as specified in Section 3.07.

B. Submit any proposed infringement on the specified minimum clearances to the Railroad Designated Representative through TxDOT at least 30 days in advance of the work. Do not proceed with such infringement without written approval by the Railroad Designated Representative.

C. Do not commence work involving an approved infringement without receiving written assurance from the Railroad Designated Representative that arrangements have been made for any necessary flagging service.

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### 3.09 MAINTENANCE OF RAILROAD FACILITIES

- A. Maintain all ditches and drainage structures free of silt or other obstructions resulting from Contractor's operations. Repair eroded areas and any other damage within Railroad Right of Way and repair any other damage to the property of the Railroad, or its tenants.
- B. Perform all such maintenance and repair of damages due to the Contractors's operations at Contractor's expense.
- C. Submit a proposed method of erosion control for review by the Railroad prior to beginning any grading on the project site. Comply with all applicable local, state and federal regulations when developing and implementing such erosion control.

#### 3. 10 SITE INSPECTIONS BY RAILROAD'S DESIGNATED REPRESENTATIVE

- A. In addition to the office reviews of construction submittals, Representative at significant points during construction, including the following if applicable:
- Pre-construction meetings.
   Pile driving/drilling of caissons or drilled shafts.
   Reinforcement and concrete placement for railroad bridge
- substructure and/or superstructure.
- Erection of precast concrete or steel bridge superstructure. 4.
- 5. Placement of waterproofing (prior to placing ballast on bridge deck).
- 6. Completion of the bridge structure.
- B. Site inspection is not limited to the milestone events listed above. Site visits to check progress of the work may be performed at any time throughout the construction as deemed necessary by the Railroad.
- C. Provide a detailed construction schedule, including the proposed temporary horizontal and vertical clearances and construction sequence for all work to TxDOT for submittal to the Railroad Designated Representative for review prior to commencement of work. Include the anticipated dates when the above listed events will occur. Update this schedule for the above listed events as necessary and each month at a minimum to allow the Railroad to schedule site inspections.

### 3.11 RAILROAD REPRESENTATIVES

Railroad representatives, conductors, flag person or watch person will be provided by the Railroad at expense of TxDOT to protect Railroad facilities, property and movements of its trains or engines. In general, the Railroad will furnish such personnel or other protective services as follows:

- A. When any part of any equipment is standing or being operated within 25 feet, measured horizontally, from nearest rail of any track on which trains may operate, or when any object is off the ground and any dimension thereof could extend inside the 25 foot limit, or when any erection or construction activities are in progress within such limits, regardless of elevation above or below track.
- B. For any excavation below elevation of track subgrade if, in the opinion the Railroad Designated Representative, track or other railroad facilities may be subject to settlement or movement.
- C. During any clearing, grubbing, excavation or grading in proximity to railroad facilities, which, in the opinion of the Railroad Designated Representative, may endanger railroad facilities or operations.
- D. During any Contractor's operations when, in the opinion of the Railroad Designated Representative, railroad facilities, including, but not limited to, tracks, buildings, signals, wire lines, or pipe lines, may be endangered.
- E. Arrange with the Railroad Designated Representative to provide the adequate number of flag persons to accomplish the work.

#### 3.12 COMMUNICATIONS AND SIGNAL LINES

If required, the Railroad will rearrange its communications and signal lines, its grade crossing warning devices, train signals and tracks, and facilities that are in use and maintained by the Railroad's forces in connection with its operation at expense of TxDOT. This work by the Railroad will be done by its own forces and it is not a part of the Work words this contract Work under this Contract.

### 3,13 TRAFFIC CONTROL

Coordinate any operations that control traffic across or around railroad facilities with the Railroad Designated Representative.

### 3.14 CONSTRUCTION EXCAVATIONS AND BORING ACTIVITIES UNDER TRACK

- A. Take special precaution and care in connection with excavating and shoring. Excavations for construction of footings, piers, columns, walls or other facilities that require shoring shall comply with requirements of TxDOT, OSHA, AREMA and Railroad "Guidelines for Temporary Shoring".
- B. The project plans indicate whether there are fiber optic lines or other such telecommunications systems that require consideration. Regardless, contact the necessary call center to determine if such cable systems are present:

UPRR 1-800-336-9193 7:00 AM to 9:00 PM CST Monday-Friday except holidays, staffed 24 hrs/day for emergencies 48 hrs notice required

BNSF 1-800-533-2891 24 hour number 5 working days notice required

KCS 1-800-344-8377 Texas One Call, a 24 hour number 48 hrs notice required, excluding weekends and holidays

If a telecommunications system is buried anywhere on or near railroad property, coordinate with TxDOT, the Railroad and the Telecommunication Company(ies) to arrange for relocation or protective measures prior to beginning work on or near railroad property. Refer to the project General Notes for additional information.

C. Projects involving a boring or jack and bore operation under track such as drainage pipes or culverts and utilities require an installation plan reviewed and approved by the Railroad and TxDOT prior to proceeding with such construction. A railroad inspector and contractor assisted monitoring of ground and track movement is required to maintain sofe passage of rail traffic. Stop installation and do not allow passage of trains if movements in excess of 1/4 inch vertical or horizontal is detected in the tracks. Immediately repair the damage to the satisfaction of TxDOT and the Railroad before proceeding.

#### 3.15 RAILROAD FLAGGING

Per the Right of Entry Agreement for flagging, notify the Railroad Representative at least 10 working days in advance of Contractor's work and at least 30 working days in advance of any Contractor's work in which any person or equipment will be within 25 feet of nearest rail or as specified in the Contractor Right of Entry (CROE).

### 3.16 CLEANING OF RIGHT-OF-WAY

When work is complete, remove all tools, implements, and other materials brought into Railroad Right of Way and leave the right of Way in a clean and presentable condition to the satisfaction of TxDOT and the Railroad.

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