

REQUEST FOR PROPOSALS

Rice, Texas, Navarro County

The City of Rice, Texas of Navarro County has received an allocation from the Texas Department of Transportation and is soliciting proposals to provide landscaping services; scope of work for the project consists of the construction of landscaping activities to include planting, irrigation along I45 from North of East Calhoun Street to South of East Calhoun street in the City of Rice, Texas for the Green Ribbon Project. Sealed Proposals must be received no later than February 14, 2023 before 2:00 pm. There will be a pre-bid meeting held at City Hall, 305 North Dallas Street, Rice, TX on January 26, 2023 at 2 pm. Questions can be submitted, in writing, to vfisher@ricetx.gov and/or address, by 10:00 am on January 27, 2023. It is the responsibility of the submitting firm to ensure that the sealed proposal is received in a timely manner. The City of Rice, Texas, Navarro County reserves the right to negotiate with any and all individuals or firms that submit proposals and may award one or more contracts to one or more service providers. Minority Business Enterprises, Small Business Enterprises and Women Business Enterprises and labor Surplus Area firms are encouraged to submit proposals. The City of Rice, Texas, Navarro County is an Affirmative Action/Equal Opportunity Employer.

You may email vfisher@ricetx.gov to request bid packet or pick up at Rice City Hall, 305 North Dallas Street, Rice, TX 75155. Sealed submitted bids will be opened at the City Council meeting on February 14, 2023 at 7:00 pm.

INSTRUCTIONS TO BIDDERS

Eligibility of Bidders

Bidders on this project must be prequalified through TxDOT. Refer to TxDOT's web site for prequalification requirements. Assure prequalification documents are submitted to TxDOT at least 14 days before bid opening. Comply with all technical prequalification requirement in the bid documents.

Issuing Bid Documents

Bid documents may be obtained at 305 North Dallas Street, Rice, TX 75155

Copies will be available in CD format at no cost.

At the time Bid Documents are obtained, Bidder must provide a working e-mail address, so as to receive any addenda or clarification issued by the City.

Deadlines

Advertisement	January 4-25, 2023	
Pre-Bid Meeting	January 26, 2023 at 2 pm	City Hall, Rice, TX 75155
Questions due by:	January 27, 2023 at 10 am	vfisher@ricetx.gov 305 North Dallas St, Rice, TX 75155
BID DUE BY:	February 14, 2023 before 2 pm	305 North Dallas St, Rice, TX 75155
BID OPENING:	February 14, 2023 at 7 pm	City Hall, Rice, TX 75155

FINAL PLANS

NAME OF CONTRACTOR: _____
DATE OF LETTING: _____
DATE WORK BEGAN: _____
DATE WORK COMPLETED: _____
DATE WORK ACCEPTED: _____
SUMMARY OF CHANGE ORDERS: _____

RESERVED SPACE
(Delete when day finished)

CITY OF RICE
PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

STATE OF TEXAS
CITY OF RICE
PROJECT NO C 92-6-109
CSJ: 0092-06-109

IH 45
NAVARRO COUNTY

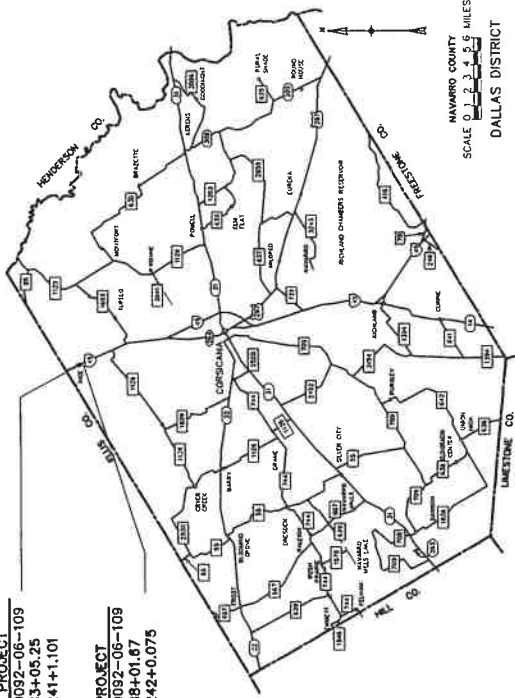
LIMITS: FROM NORTH OF E CALHOUN ST
TO SOUTH OF E CALHOUN ST

TOTAL LENGTH OF PROJECT = ROADWAY = 485.76 FT. = 0.092 MI.

TYPE OF WORK FOR THE CONSTRUCTION OF LANDSCAPE & SCENIC ENHANCEMENTS
CONSISTING OF TREES, SHRUBS, GROUNDCOVERS, & IRRIGATION

BEGIN PROJECT
CSJ 0092-06-109
STA 83+05.25
TRM 241+1.01

END PROJECT
CSJ 0092-06-109
STA 88+01.67
TRM 242+0.075



Seal Space
for
Final Plans

WORK WAS COMPLETED ACCORDING
TO THE PLANS AND CONTRACT.

Signature of Registrar & Date

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EQUATIONS NONE
EXPLANATIONS NONE
RAILROAD CROSSINGS NONE

DESIGN	AV	FEDERAL AID or STATE PROJECT NO.	C 92-6-109	PROJECT	IH 45
DATE	AV	STATE	DAWSON	DATE	1
DATE	AV	STATE	DAWSON	DATE	1
DATE	AV	STATE	DAWSON	DATE	1
DATE	AV	STATE	DAWSON	DATE	1

NOTE:

THE UTILITY TIES SHALL BE GOVERNED BY THE NORTH CENTRAL COUNCIL
OF GOVERNMENT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
WITH THE CITY OF RICE SPECIAL PROVISION.

NOTE:

THE UTILITY TIES SHALL BE GOVERNED BY THE TEXAS DEPARTMENT OF TRANSPORTATION
SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION
FOLLOWING SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS
FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 1,
2014)



SUBMITTED
FOR LETTING
3/28/2022
Submitted by
LANDSCAPE ARCHITECT

CONCURRENCE
3/28/2022
Submitted by
CITY MAYOR

TEXAS DEPARTMENT OF TRANSPORTATION

SUBMITTED
FOR LETTING
3/29/2022
Submitted by
DIRECTOR OF OPERATIONS
P.E.

RECOMMENDED
FOR LETTING
4/5/2022
Submitted by
DISTRICT ENGINEER
P.E.

INDEX OF SHEETS

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III. ENVIRONMENTAL ISSUES	
24	ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)
25	STORM WATER POLLUTION PREVENTION PLAN (SW3P)
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30-31	IRRIGATION PLAN
32	PLANTING DETAILS
33	LANDSCAPE LAYOUT DETAILS
34	IRRIGATION DETAILS
35	VEGETATION ESTABLISHMENT



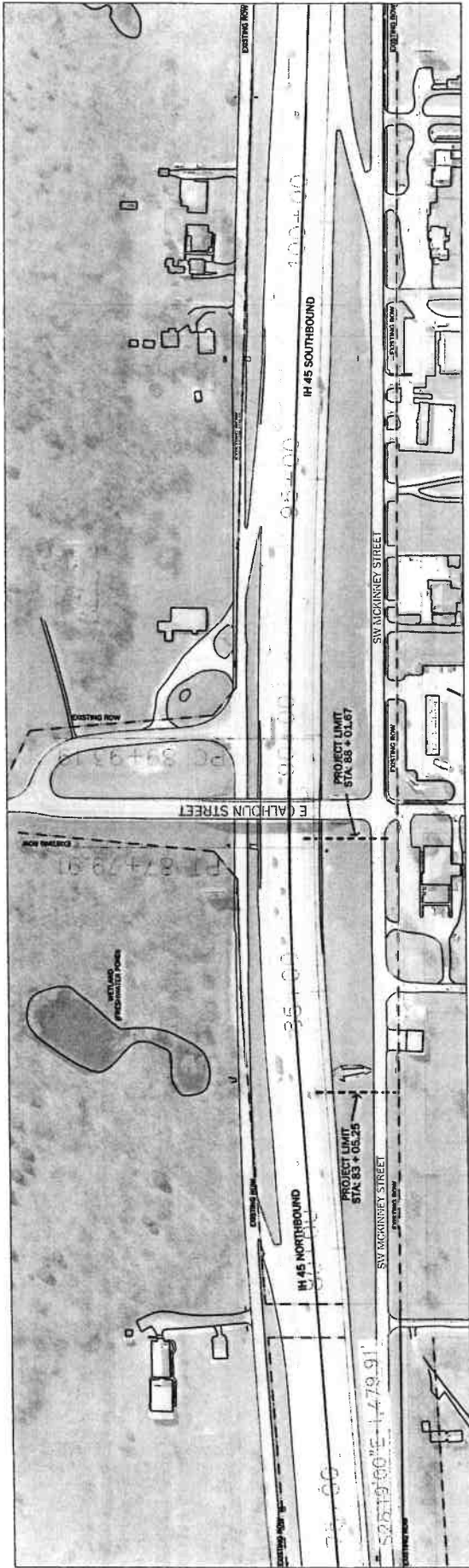
THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN
REVIEWED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING
APPLICABLE TO THIS PROJECT.

David Morren, P.E.
Signature of Registrant Date 3/31/2022



INDEX OF SHEETS

PROJECT NO.	AV	FEDERAL AID PROJECT NO.	PROJECT DIST.
SECTION	AV	C 92-6-109	IN 45
STATE	TEXAS	DISTRICT	SHEET NO.
COUNTY	DAWSON	SECTION	2
CONTROL	0092	JOB	109



Texas Department of Transportation
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CITY OF RICE PROJECT LAYOUT

1 OF 1		FEDERAL AID PROJECT NO.		SHEET NO.	
AV	AV	6	C 92-6-109	1H 45	1H 45
SECTION	STATE	DISTRICT	COUNTY	SHEET NO.	
AV	TEXAS	DALLAS	NAVARRO	3	
CHECK	CONTROL	SECTION	JOB		
	0092	06	109		



Anthony Diep
Signature of Registered Architect
Date 03/31/2022

CSJ: 0092-06-109

County: Navarro

Highway: IH 45

Sheet 4

GENERAL

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 0.30 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.

Install traffic marking signs prior to sealcoat application and remove within three days after placement of traffic markings.

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

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

Name Sharon Watkins - City of Rice - 903-326-7500

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:

<https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting%20Responses/>

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: 0092-06-109

County: Navarro

Highway: IH 45

Sheet 4

Paper copies of cross-sections may be produced by using the provided .pdf file located on the above FTP Website at the bidders' expense and at copying companies. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

The following standard detail sheets have been modified:

Item 1:

This is a Non-Site-Specific Contract as defined in Item 1.3.90.

Item 5:

Place survey monuments, provided by the department, at points indicated and as detailed in the plans or as directed. Furnish surface coordinates and the elevation of the set monument and an azimuth from the monument to some prominent physical feature, preferably another survey monument on the project. This work will not be paid for directly, but will be considered subsidiary to the various bid items.

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communications & control maintained by TxDOT, call the TxDOT Traffic Signal Office (214-320-6682) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Landscape Office (214-320-6205) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages when utilities are damaged due to Contractor's negligence including, but not limited to, repair or replacement at the Contractor's expense.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Place construction stakes/station markings at intervals of no more than 100 feet or as directed by the Engineer. Place stakes and markings so as not to interfere with normal construction operations.

Item 7:

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

Perform all electrical work in accordance with the National Electrical Code and Texas Department of Transportation Specifications.

Consult with appropriate electric company representatives according to their respective area to coordinate electrical services installations.

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

General Notes

Sheet A

General Notes

Sheet B

County: Navarro

Highway: IH 45

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 (noon on December 31 thru 10:00 pm January 1)
- Easter Holiday weekend (noon on Friday thru 10:00 pm Sunday)
- Memorial Day weekend (noon on Friday thru 10:00pm Monday)
- Independence Day (noon on July 3 thru 10:00 pm on July 5)
- Labor Day weekend (noon on Friday thru 10:00 pm Monday)
- Thanksgiving Holiday (noon on Wednesday thru 10:00 pm Sunday)
- Christmas Holiday (noon on December 23 thru 10:00 pm December 26)

No significant traffic generator events identified

Item 8:

This Project will be a Standard work week.

Meet weekly with the engineer to notify him or her of planned work for the upcoming week.

On this project, work will need to be ceased as determined by the engineer to accommodate Fair activities. The project will be left in a condition that will have the least impact on the traveling public as practicable as determined by the engineer. No additional time or compensation will be allowed for these actions.

Item 100:

The limits of preparing right of way will be measured from Sta. 83+05.25 to Sta. 88+01.67 along the centerline of construction.

Item 160:

Sequence construction operations to salvage topsoil from one location and spread on areas ready to receive topsoil. Keep stockpiling of topsoil to a minimum.

Use fertile clay or loam from the project site not more than six inches below natural grade as topsoil.

Item 161:

Provide tickets representing quantity of compost delivered to site.

Item 192:

No planting shall occur between June 1st and September 15th without written approval from the Engineer.

Perform soil percolation test at least 24 hours prior to planting trees in plant pits. Excavate plant pit and fill entirely with water. Inspect planting pit within 24 hours to verify water has percolated into surrounding soil. In the event the water is present after 24 hours, contact Engineer before continuing tree planting in pits.

General Notes

Sheet C

County: Navarro

Highway: IH 45

Prior to installing any plant material, ensure the irrigation system (if included in project) is pressurized up to the valves.

Begin the 90-day maintenance period only after all live plant material and functional irrigation systems have been installed as shown on plans.

Item 500:

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

Item 502:

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

Access will be provided to all business and residences at all times. Where turning radii are limited during phased construction at intersections, provide all weather surfaces such as RAP or base in turning movements to accommodate and to protect the traffic from edge drop-offs. Materials, labor, maintenance and removal for these temporary accesses and radii will not be paid for directly but will be considered subsidiary to the various bid items.

Provide a person on the project at all times (24 hours/day, 7 days/week) to patrol, monitor, and maintain the traffic control devices and signs. The person must be knowledgeable of TxDOT Guidelines for traffic control devices and signs.

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a 3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and dispose of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

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

Provide rectangular shape (CW12-2P) Temporary Clearance Signs on all bridges where the existing vertical clearance has changed. Install Signs to the satisfaction of the Engineer prior to opening to traffic. Plywood sign blanks will have minimum dimensions of 84" X 12". Work performed and materials are subsidiary to this item.

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

General Notes

Sheet D

County: Navarro

Highway: IH 45

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, night time 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:

Take all practicable precautions to prevent debris from being discharged into the Waters of Texas or a designated wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

Concrete Washouts are required per the CGP. The Concrete Washout Area(s) structural controls must consist of temporary berms, temporary shallow pits, and/or temporary storage tanks to prevent contaminated runoff and must be lined as to prevent contamination of underlying soil. Ensure pits properly maintained including removal of concrete as not to allow over flow. The location(s) of washout area will be approved by the Engineer. When washout pits are no longer needed, they will be removed and area will be restored to original condition. This work, materials and labor will not be measured or paid for directly but will be subsidiary to Item 506, "Temporary Erosion, Sedimentation, and Environmental Controls."

Item 508:

Testing of materials used in the construction of a temporary detour may be waived when approved by the Engineer.

Items 610 - 690:

****The master general notes for signing, illumination, traffic signals and ITS can be found on Operations (Det) Links. ****



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0092-06-109

DISTRICT Dallas
HIGHWAY IH 45

COUNTY Navarro

of transportation

CONTROL SECTION JOB				0092-06-109		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00176681			
COUNTY				Navarro			
HIGHWAY				IH 45			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	100-6001	PREPARING ROW	AC	0.500		0.500	
	161-6017	COMPOST MANUF TOPSOIL (4")	SY	1,352.000		1,352.000	
	170-6001	IRRIGATION SYSTEM	LS	1.000		1.000	
	192-6003	PLANT MATERIAL (3-GAL)	EA	64.000		64.000	
	192-6004	PLANT MATERIAL (5-GAL)	EA	55.000		55.000	
	192-6006	PLANT MATERIAL (30-GAL)	EA	5.000		5.000	
	192-6008	PLANT MATERIAL (65-GAL)	EA	3.000		3.000	
	192-6015	LANDSCAPE EDGE	LF	456.000		456.000	
	192-6016	PLANT BED PREPARATION	SY	1,352.000		1,352.000	
	192-6081	PLANT SOIL MIX (PLANTING SOIL)	CY	11.500		11.500	
	192-6097	CONC LANDSCP EDG (12 IN WIDTH)	LF	705.000		705.000	
	193-6001	PLANT MAINTENANCE	MO	9.000		9.000	
	193-6007	IRRIGATION SYSTEM OPER AND MAINT	MO	9.000		9.000	
	500-6001	MOBILIZATION	LS	1.000		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	2.000		2.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	480.000		480.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	480.000		480.000	
	618-6034	CONDT (PVC) (SCH 40) (4") (BORE)	LF	50.000		50.000	
	1005-6001	LOOSE AGGR FOR GROUND COVER (TYPE I)	CY	104.000		104.000	
	1005-6002	LOOSE AGGR FOR GROUND COVER (TYPE II)	CY	29.000		29.000	

DISTRICT	COUNTY	CCSJ	SHEET
Dallas	Navarro	0092-06-109	5

1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).

2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
5. Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
6. When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and the work advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
7. The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
8. All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSU WARNING SIGNS STATE LAW SIGN, STAY ALERT TALK OR BC(2), CSU WARNING SIGNS STATE LAW SIGN, STAY ALERT TALK OR BC(2), 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 END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSU 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.

- 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 or high volume work areas or night time work.

2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

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.bxdot.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 (TWUTCD)
TRAFFIC ENGINEERING STANDARD SHEETS

TYPICAL CONSTRUCTION WARNING SIGN SIZE AND SPACING

SIZE		SPACING	
Sign Number or Series	Conventional Road	Expressway/Freeway	Posted Speed
CW20 ⁴			MPH
CW21	48" x 48"	48" x 48"	30
CW22			35
CW23			40
CW25			45
CW1, CW2, CW7, CW8, CW9, CW11, CW14	36" x 36"	48" x 48"	50
CW3, CW4, CW5, CW6, CW10, CW12	48" x 48"	48" x 48"	55
			60
			65
			70
			75
			80
			1000
			*

* For typical sign spacing on divided highway, see Appendix A, Figure 1. See Part 6 of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) typical application diagrams or TCD Standard Sheets.

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

GENERAL NOTES

1. Speed 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" (CW20-10) signs may be used on low volume crossroads at the discretion of the Engineer as per TMUTCD Part 5. See Note 2 under "Typical Location of Crossroad Signs."
5. Only diamond shaped warning sign sizes are indicated.
6. See sign size listing in "TMUTCD" Sign Appendix or the "Standard Highway Sign Design for Texas" manual for complete list of available sign design sizes.

LEGEND	
—	Type 3 Barricade
○ ○ ○	Channelizing Devices
—	Sign
X	See Typical Construction Warning Sign Spacing Diagram for Sign Spacing Requirements.

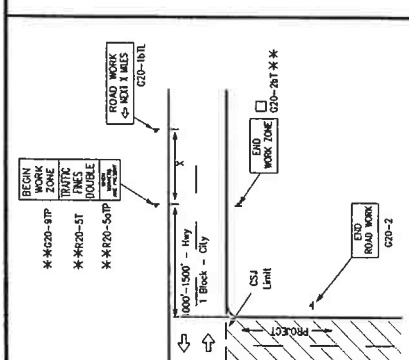
SHEET 2 OF 12

Texas Department of Transportation

BARRICADE AND CONSTRUCTION PROJECT LIMIT

BC(2)-21

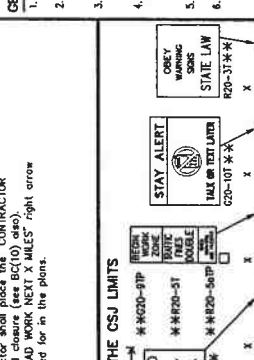
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41	12-21-00	2002	100	100
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97	12-21-00	2002	100	100
98	12-21-00	2002	100	100
99	12-21-00	2002	100	100
100	12-21-00	2002	100	100



CSJ LIMITS AT T-INTERSECTION

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2. If construction closes the road at a T-intersection, the Contractor shall place the "CONTRACTOR NAME" (G20-51) sign behind the Type 3 Barricade (see BC(10) sign). The "ROAD WORK NEXT X MILES" left arrow (G20-10) and "ROAD WORK NEXT X MILES" right arrow (G20-11) signs shall be replaced by the detour signing called for in the plans.



NOTES

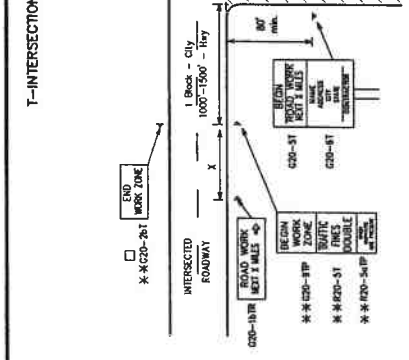
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Area for placement of "ROAD WORK AHEAD" (CW20-10) sign and other signs or devices as called for on the Traffic Control Plan.

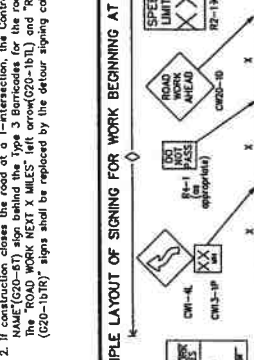
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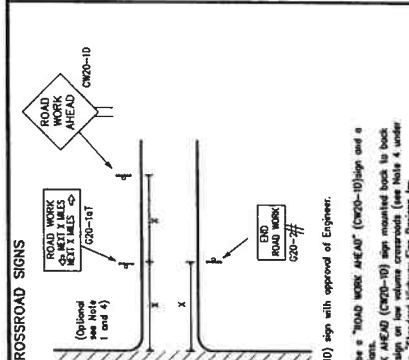
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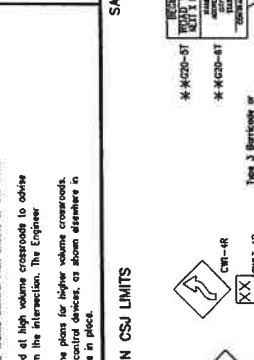
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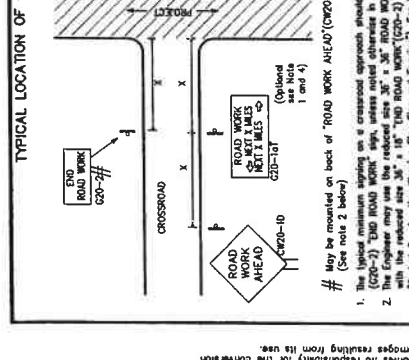
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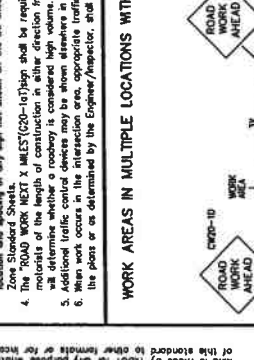
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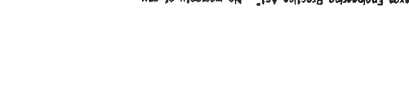
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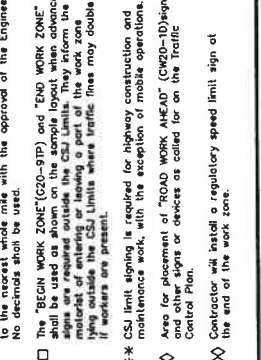
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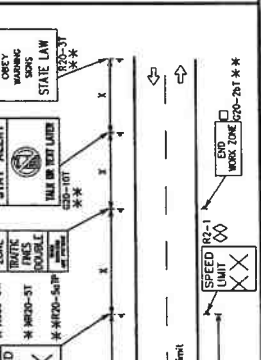
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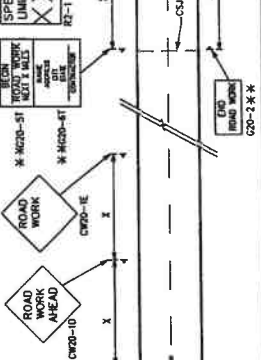
SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



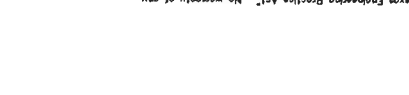
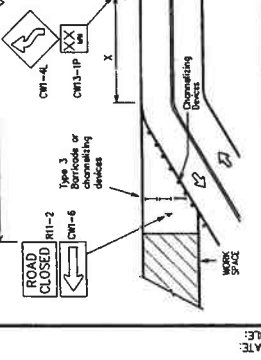
SAMPLE LAYOUT OF SIGNING FOR WORK BEGINNING DOWNSTREAM OF THE CSJ LIMITS



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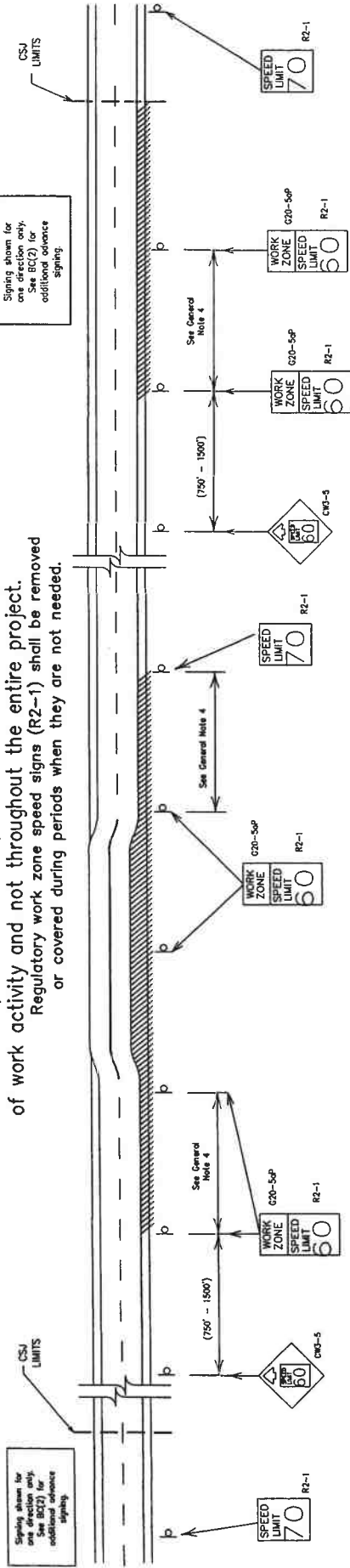
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TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Work zone speed limits shall be regulatory, established in accordance with the "Procedures for Establishing Speed Zones," and approved by the Texas Transportation Commission, or by City Ordinance when within incorporated city limits.

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (R2-1) shall be removed or covered during periods when they are not needed.



GUIDANCE FOR USE:

LONG/INTERMEDIATE TERM WORK ZONE SPEED LIMITS

This type of work zone speed limit should be included on the design of the traffic control plans when restricted geometrics with a lower design speed are present in the work zone and modification of the geometrics to a higher design speed is not feasible.

Long/Intermediate Term Work Zone Speed Limit signs, when approved as described above, should be posted and visible to the motorist when work activity is present. Work activity may also be defined as a change in the roadway that requires a reduced speed for motorists to safely negotiate the work area, including:

- rough road or damaged pavement surface
- substantial alteration of roadway geometrics (diversions)
- construction detours
- grade
- width
- other conditions readily apparent to the driver

As long as any of these conditions exist, the work zone speed limit signs should remain in place.

SHORT TERM WORK ZONE SPEED LIMITS

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

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

GENERAL NOTES

- Regulatory work zone speed limits should be used only for sections of construction projects where speed control is of major importance.
- Regulatory work zone speed limit signs shall be placed on supports at a 7 foot minimum mounting height.
- Speed zone signs are illustrated for one direction of travel and are normally posted for each direction of travel.
- Frequency of work zone speed limit signs should be:
40 mph and greater 0.2 to 2 miles
35 mph and less 0.2 to 1 mile
- Regulatory speed limit signs shall have black legend and border on a white reflective background (See "Reflective Sheeting" on BC(4)).
- Fabrication, erection and maintenance of the "ADVANCE SPEED LIMIT (C20-5a) sign, WORK ZONE (C20-5a) sign, and the "SPEED LIMIT (R2-1) sign shall not be paid for directly, but shall be considered subsidiary to item 502.
- Tuning signs from view, laying signs over or down will not be allowed, unless as otherwise noted under "REMOVING OR COVERING" on BC(4).
- Techniques that may help reduce traffic speeds include but are not limited to:
A. Low enforcement.
B. Flagger stationed next to sign.
C. Portable changeable message sign (PCMS).
D. Low-power (dome) radar transmitter.
E. Speed monitor trailers or signs.
- Speeds shown on detour above are for illustration only.
Work Zone Speed Limits should only be posted as approved for each project.
- For more specific guidance concerning the type of work, work zone conditions and factors impacting allowable regulatory construction speed zone reduction see TxDOT form #1204 in the TxDOT e-form system.

SHEET 3 OF 12



Texas Department of Transportation

BARRICADE AND CONSTRUCTION WORK ZONE SPEED LIMIT

BC(3)-21

DATE	BC(3)-21.dgn	DATE	10/01/01	DATE	10/01/01	DATE	10/01/01
BY	10/01/01	BY	10/01/01	BY	10/01/01	BY	10/01/01
REVISED	10/01/01	REVISED	10/01/01	REVISED	10/01/01	REVISED	10/01/01
BY	10/01/01	BY	10/01/01	BY	10/01/01	BY	10/01/01
DATE	10/01/01	DATE	10/01/01	DATE	10/01/01	DATE	10/01/01
BY	10/01/01	BY	10/01/01	BY	10/01/01	BY	10/01/01
DATE	10/01/01	DATE	10/01/01	DATE	10/01/01	DATE	10/01/01
BY	10/01/01	BY	10/01/01	BY	10/01/01	BY	10/01/01

RECOMMENDED PHASES AND FORMATS FOR PCMS MESSAGES DURING ROADWORK ACTIVITIES

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

PORTABLE CHANGEABLE MESSAGE SIGNS

- 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 eight characters per word), not including simple words such as "TO," "OR," "AT," etc.
- When a single phase of a single phase, or two phases that are not simultaneous, are used, the message should convey a single thought, and must be understood by the user.
- Use the word "EXIT" to refer to an exit ramp on a freeway, i.e., "EXIT CLOSED. Do not use the word 'EXIT' 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 "MESSAGE" should be used only if the work is to be done at night or in inclement weather.
- 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 "top" and "bottom" or "left" and "right" of the message. The message should be steady burn or continuous while displayed.
- Do not present redundant information on a two-phase message, i.e., "EXIT CLOSED" and "MESSAGE" should be used only if the work is to be done at night or in inclement weather.
- Do not use the word "BARRIERS" in the message, i.e., "BARRIERS DOWN" on a PCMS. Drivers do not understand the message.
- Do not display messages that scroll horizontally or vertically across the face of the sign.
- The following table lists abbreviated words and two-word phrases that are used together. Words or phrases not on this list should not be abbreviated, unless shown in the TMCOD.
- PCMS character height should be at least 18 inches for letter mounted units. They should be visible from at least 1/3 mile and the text should be legible from at least 400 feet.
- Truck-mounted units must have a character height of 10 inches and must be legible from at least 400 feet.
- Each line of text should be centered on the message board rather than left aligned.
- If the sign is a PCMS should default to an English display that all road users understand and will only be used to alert workers that the PCMS has malfunctioned. A yellow such as a series of horizontal solid bars is appropriate.

Phase 1: Condition Lists

Road/Lane/Ramp Closure List		Other Condition List	
FREWAY CLOSED X MILE	FRONTAGE ROAD CLOSED	ROADWORK XXX FT	ROAD REPAIRS XXXX FT
ROAD CLOSED	SHOULDER CLOSED	FLAGGER XXXX FT	LANE NARROWS XXXX FT
AT SH XXX	RIGHT LN CLOSED	RIGHT LN NARROWS XXXX FT	TWO-WAY TRAFFIC XX MILE
ROAD CLSD AT FM XXXX	RIGHT X LANES OPEN	MERGING TRAFFIC XXXX FT	CONST TRAFFIC XXX FT
RIGHT X LANES CLOSED	DAYTIME LANE CLOSURES	LOOSE GRAVEL XXXX FT	UNEVEN LANES XXXX FT
CENTER LANE CLOSURE	NIGHT LANE CLOSURES	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	TRAFFIC SIGNAL XXXX FT	LANES SHIFT *

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

Phase 2: Possible Component Lists

Action to Take/Effect on Travel	Location List	Warning List	** Advance Notice List
MERGE RIGHT	AT FM XXXX	SPEED LIMIT XX MPH	TUE-FRI XX AM-XX PM
DETOUR X EXITS	BEFORE RAILROAD CROSSING	MAXIMUM SPEED XX MPH	APR XX-XX PM-XX AM
USE EXIT I-XX NORTH	NEXT X MILES	MINIMUM SPEED XX MPH	BEGINS MONDAY
STAY ON US XXX SOUTH	PAST US XXX EXIT	ADVISORY SPEED XX MPH	BEGINS MAY XX
TRUCKS USE US XXX N	XXXXXXX TO XXXX	RIGHT LANE EXIT	MAY X-X XX PM-XX AM
WATCH FOR TRUCKS	US XXX TO FM XXXX	USE CAUTION	NEXT FRI-SUN XX AM
EXPECT DELAYS	PREPARE TO STOP	DRIVE SAFELY	XX AM TO XX PM
REDUCE SPEED XXX FT	END SHOULDER USE	DRIVE WITH CARE	NEXT TUE AUG XX
USE OTHER ROUTES	WATCH FOR WORKERS		TONIGHT XX PM-XX AM
STAY IN LANE			

** See Application Guidelines Note 6.

APPLICATION GUIDELINES

- Day or night phase must be used on a PCMS.
- When a single phase of a single phase, or two phases that are not simultaneous, are used, the message should convey a single thought, and must be understood by the user.
- A 2nd phase can be selected from the "Action to Take/Effect" on Travel, Location, General Warning, or Advance Notice.
- A Location Phase is necessary only if a distance or location is not included in the first phase selected.
- If two PCMS are used in sequence, they must be separated by a minimum of 100 feet. The second phase should be limited to two phases.
- For advance notice, when the current data 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.

WORKING ALTERNATIVES

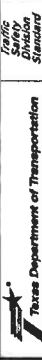
- The words RIGHT LEFT and ALL can be interchanged as appropriate.
- Roadway designations R, US, S, N, and LP can be interchanged as appropriate.
- EAST, WEST, NORTH and SOUTH (or abbreviations E, W, N and S) can be interchanged as appropriate.
- Use "ROAD" and "FREEWAY" as appropriate.
- ROAD, HIGHWAY and FREEWAY can be interchanged as needed.
- FT and M, MILE and MILES interchanged as appropriate.
- Distance 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

- 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.
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- 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 the static sign.
- A full matrix PCMS may be used to simulate a flashing arrow board provided it meets the visibility, flash rate and timing requirements on BC(7), for the same size arrow.

SHEET 6 OF 12

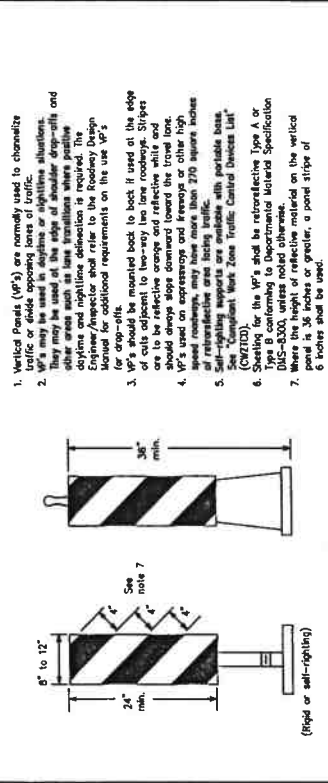
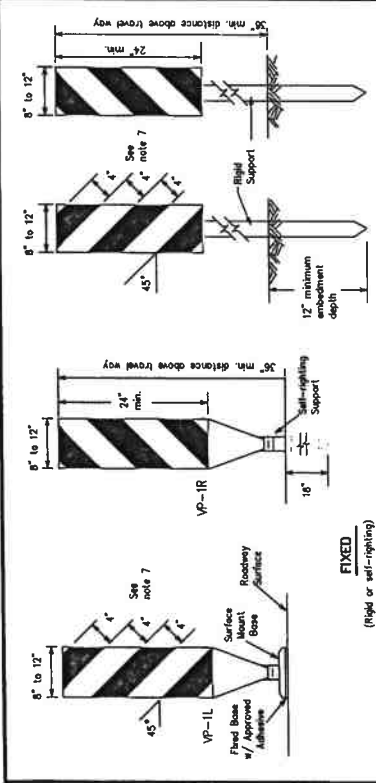


BARRICADE AND CONSTRUCTION PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

BC(6)-21

FILE	BC(6)-21	DATE	11/01/01	BY	11/01/01	FOR	11/01/01
REVISED	11/01/01	DATE	11/01/01	BY	11/01/01	FOR	11/01/01
REVISED	11/01/01	DATE	11/01/01	BY	11/01/01	FOR	11/01/01
REVISED	11/01/01	DATE	11/01/01	BY	11/01/01	FOR	11/01/01

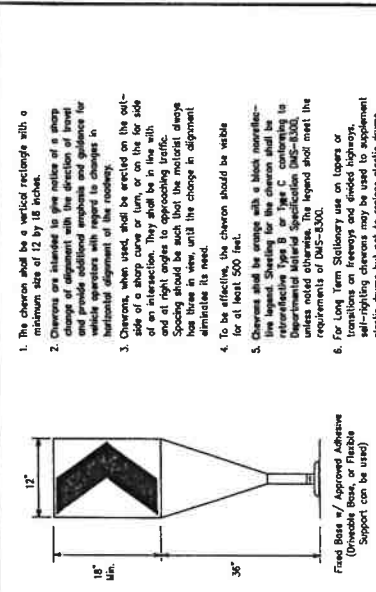
DISCLAIMER: The use of this standard is governed by the "Texas Manual on Uniform Traffic Control Devices" (TMUD). It is the responsibility of the user to ensure that the use of this standard is in accordance with the TMUD. No warranty of any kind is made by the Texas Department of Transportation for the use of this standard in any other manner or for any other purpose.



VERTICAL PANELS (VPs)

1. Opposing Traffic Lane Dividers (OTLD) are defined as devices designed to prevent a vehicle from crossing a roadway into the opposite lane of travel. OTLDs are used on temporary construction projects, detours, and other situations where a permanent OTLD is not feasible. OTLDs are used on the edge of the roadway to indicate the direction of travel and to provide a physical barrier to traffic. OTLDs are used on the edge of the roadway to indicate the direction of travel and to provide a physical barrier to traffic. OTLDs are used on the edge of the roadway to indicate the direction of travel and to provide a physical barrier to traffic.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)



CHEVRONS

1. Chevrons are used to indicate the direction of travel and to provide a physical barrier to traffic. Chevrons are used on the edge of the roadway to indicate the direction of travel and to provide a physical barrier to traffic. Chevrons are used on the edge of the roadway to indicate the direction of travel and to provide a physical barrier to traffic.

LONGITUDINAL CHANNELIZING DEVICES (LCD)

1. LCDs are used to indicate the direction of travel and to provide a physical barrier to traffic. LCDs are used on the edge of the roadway to indicate the direction of travel and to provide a physical barrier to traffic. LCDs are used on the edge of the roadway to indicate the direction of travel and to provide a physical barrier to traffic.

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 not to be used for any other purpose. The devices are to be used in accordance with the "Texas Manual on Uniform Traffic Control Devices" (TMUD).

Posted Speed	Formula	Minimum Desirable Spacing (ft)	Suggested Maximum Spacing of Channelizing Devices (ft)
30	$W = \frac{1}{2} S^2$	10'	On a Taper: 15'
35	$W = \frac{1}{2} S^2$	15'	On a Taper: 20'
40	$W = \frac{1}{2} S^2$	20'	On a Taper: 25'
45	$W = \frac{1}{2} S^2$	25'	On a Taper: 30'
50	$W = \frac{1}{2} S^2$	30'	On a Taper: 35'
55	$W = \frac{1}{2} S^2$	35'	On a Taper: 40'
60	$W = \frac{1}{2} S^2$	40'	On a Taper: 45'
65	$W = \frac{1}{2} S^2$	45'	On a Taper: 50'
70	$W = \frac{1}{2} S^2$	50'	On a Taper: 55'
75	$W = \frac{1}{2} S^2$	55'	On a Taper: 60'
80	$W = \frac{1}{2} S^2$	60'	On a Taper: 65'

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

* * * Taper lengths shall be rounded off to the nearest 5 feet. * * *

BC(9)-21

1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricodes and a list of all materials

- [illegible]

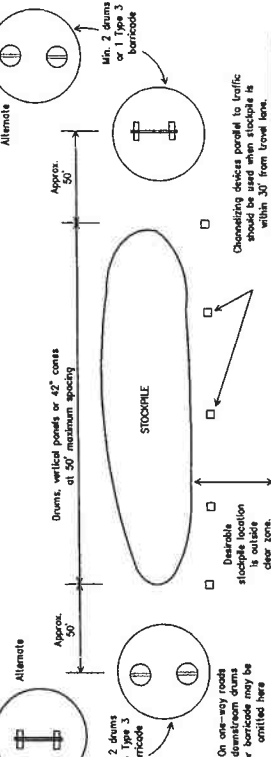
Diagram illustrating the dimensions and angles for reflective sheeting:

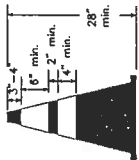
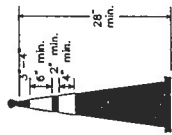
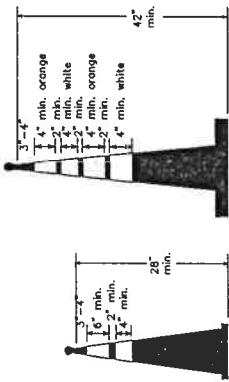
- Minimum width of Reflecting Sheet: 7 inches.
- Strip width: 8" nominal.
- Angles: 45° and 6° .

4' mks., 8' max



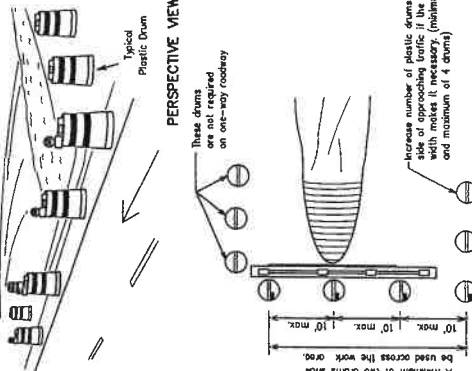
Stiffener may be inside or outside of support, but no more than 2 stiffeners shall be allowed on one barricade.





28" Cones shall have a minimum weight of 9 1/2 lbs.
42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

1. Traffic cones and wheelbarrow machines should be predominantly orange, and must meet the height and weight requirements shown above.
2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or pedestal, that is added to keep the device upright and in place.
3. Two-piece cones may have a flange or top extending up to 6" above the minimum height shown above.
4. Cones or wheelbarrow machines shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed surface and meet the requirements of Departmental material specifications.
5. 30" cones and wheelbarrow machines are generally suitable for short duration and short-term stationary work as defined on B2(1). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
6. 42" two-piece cones, vertical poles or drums are suitable for all work zone applications.
7. Wheelbarrow machines used on each project should be of the same size and color.



WIDENING OF

1

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

increase number of plastic drums on the inside of approaching traffic if the crown width makes it necessary. (minimum of 2 and maximum of 4 drums)

1



BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC(10)-21

FILE	11-21.dgn	DATE	11/20/2002	USER	11/20/2002	TIME	10:00	DATE	11/20/2002
PROJECT	REVENUE	COMP	REVENUE	COMP	REVENUE	COMP	REVENUE	COMP	REVENUE
DATE	9-07	DATE	8-14	DATE	7-13	DATE	5-21	DATE	15
TIME	7-13	TIME	5-21	TIME	15	TIME	15	TIME	15

GENERAL

3. 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.
4. Color, patterns and dimensions shall be in conformance with the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
5. Additional supplemental pavement marking details may be found in the plans or specifications.
6. Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.
7. When short term markings are required on the plans, short term markings shall conform with the TMUTCD. The plans will detail as shown on the Standard Plans Sheet **SP-1000**.
8. When standard pavement markings are not in place and the roadway is opened to traffic, DO NOT PASS signs shall be installed in place of the standard markings. When the roadway is closed to traffic, the standard markings shall be installed. The use of PASS with CARE signs at the beginning of sections where passing is permitted.
9. All work zone pavement markings shall be installed in accordance with Item 602, "Work Zone Pavement Markings."

Reinforced pavement markers are to be placed according to the patterns on BC(12).

2. All raised pavement markers used for work zone markings shall meet the requirements of item 672, "RAISED PAVEMENT MARKERS" and Departmental Material Specification DMS-4200 or DMS-4300.

Removable prefabricated pavement markings shall meet the requirements of DMS-8241.

2. Non-removable prefabricated pavement markings (fall back) shall meet the requirements of DMS-8240.

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 Item 395.
- 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 652.

1. Payment markings that are no longer applicable, could create confusion or direct a motorist (ward or into the closed portion of the roadway) shall be removed or obliterated before the roadway is opened to traffic.
2. The above shall not apply to detours in place for less than three days, where flaggers and/or sufficient channelizing devices are used in lieu of markings to outline the detour route.
3. Payment markings shall be removed to the extent it is not possible, so as not to leave a disconcerting marking. This shall be by any method approved by TMDOT Specification Item 677 for "Eliminating Existing Payment Markings and Markers".
4. If the removal of payment 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 payment may be used.
5. Blank clearing may be used but will not be required unless specifically shown in the plans.
6. Over-pointing of the markings SHALL NOT be permitted.
7. Removal of raised payment markings shall be as directed by the Engineer.

0. Block-out marking tape may be used to cover conflicting existing markings for periods less than two weeks when approved by the Engineer.

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

- Temporary flexible-inflation monetary policy rules used as guidelines must meet the requirements of MS-232.
1. **Tests decided on this sheet are to be inspected and accepted by the Engineer, after the Engineer has been notified in writing that the work is normally required, however at the option of the Engineer, either "A," "B," or "C" below may be inspected to assure quality before placement on the roadway.**
1. **Sublet lots (5) or more lots at random from each lot or shipment and submit to the Construction Division, Materials and Paving Section to determine specification compliance.**
 2. **Sublet lots (5) lots and perform the following test. After five (5) lots of 24 tons (random) on an asphalt surface, use a straight line, using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction. No more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.**
- Small design variances may be noted between lot manufacturers. See Standard Spec. MS(2019) for lot placement on new pavements. See Standard Spec. MS(2019) for lot placement on seal coat work.

11. Raised pavement markers used as guidemarks shall be from the approved product list and meet the requirements of DMS-4200.

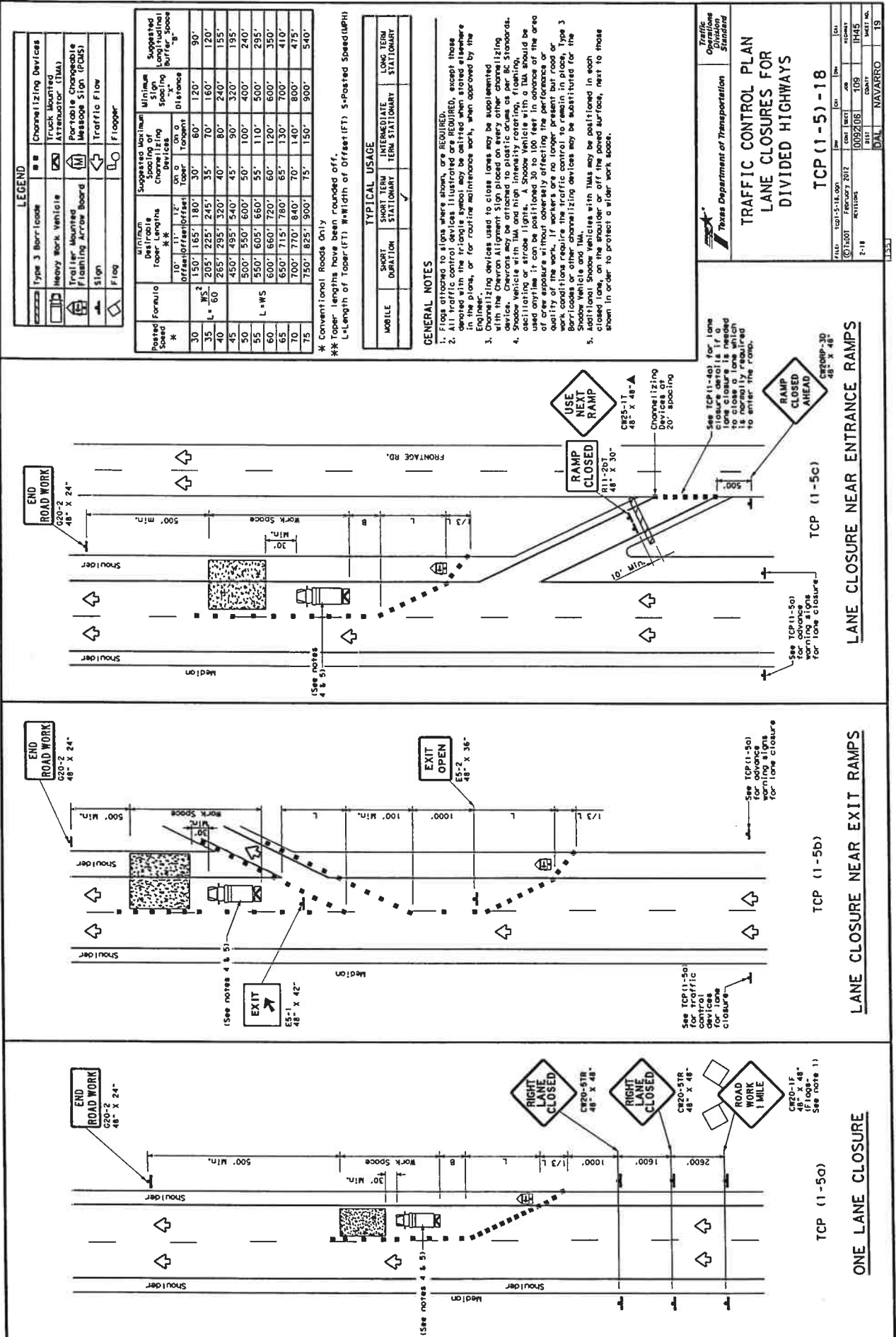
2. All temporary construction raised pavement markers provided on a project shall be of the same manufacturer.
3. Adhesive for guidemarks shall be bituminous material hot applied butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

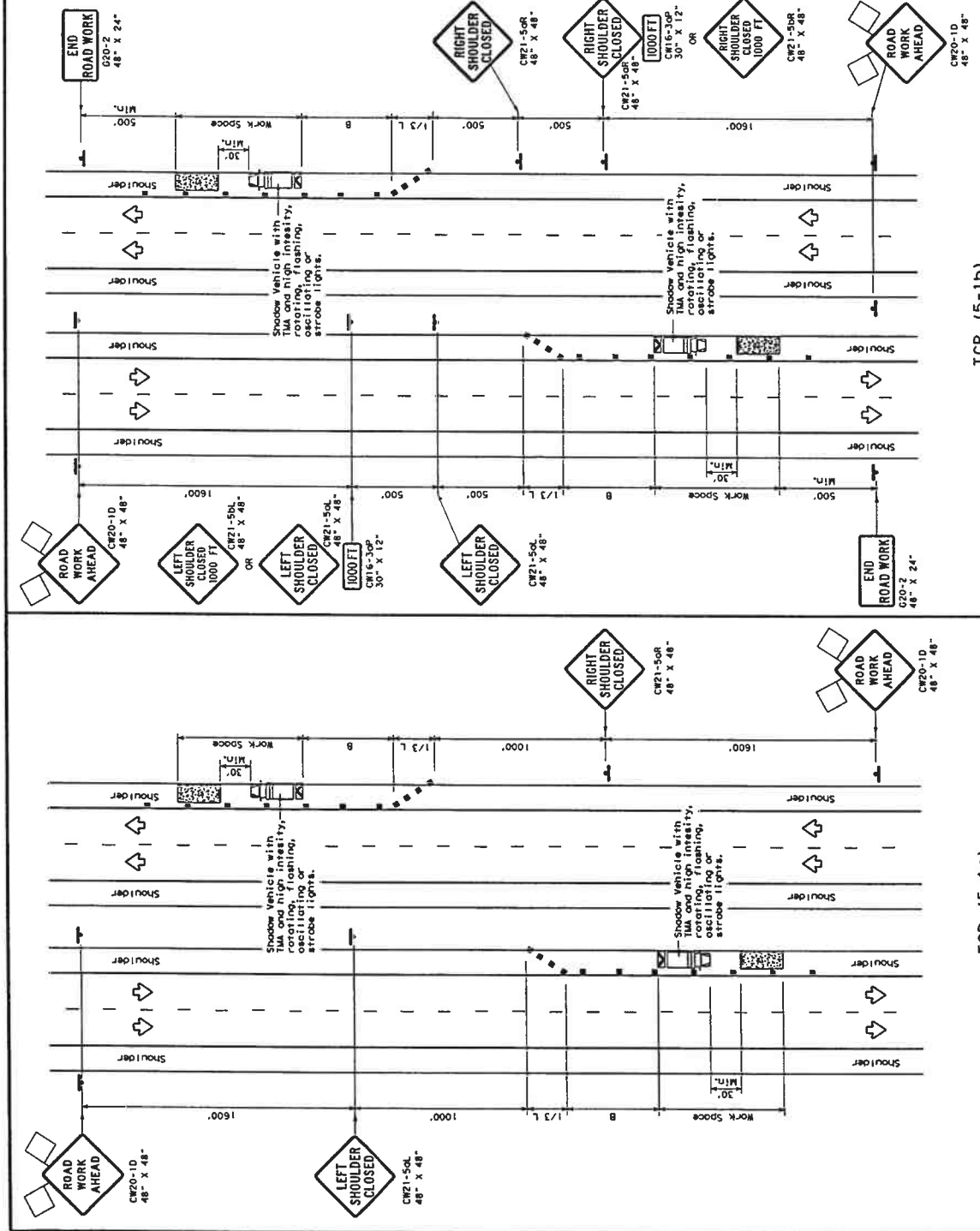
Remarks shall be designated as:
YELLOW - (two amber reflective surfaces with yellow body).
WHITE - (one silver reflective surface with white body).

DEPARTMENTAL MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
TRAFFIC BUTTONS	DMS-4300
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6150
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240
TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS	DMS-8241
TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS	DMS-8242

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

	PAC	bs-21-69b	DATE T.OOT	CONF	SECT	JOB	ON T.OOT	ONc	T.OOT	ON	L.OOT
RECORDS											
		2-88	9-07	5-21		109				M	45
		1-02	7-13			COUNTY				SHEET NO	
		11-02	4-14			DAL				NAVARRO	17





TCP (5-1a)

TCP (5-1b)

WORK AREA ON SHOULDER

WORK AREA ON SHOULDER

LEGEND

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

Posted Speed *	Formula	Minimum Taper Lengths **	Suggested Maximum Spooling of Channelizing Devices ***	Suggested Maximum Length of Taper (ft)
30	W^2	10' 11' 12'	On a Taper	90'
35	W^2	150' 165' 180'	On a Taper	120'
40	W^2	205' 225' 245'	On a Taper	150'
45	W^2	265' 295' 320'	On a Taper	180'
50	W^2	330' 365' 400'	On a Taper	210'
55	W^2	400' 440' 480'	On a Taper	240'
60	W^2	480' 525' 570'	On a Taper	270'
65	W^2	570' 620' 670'	On a Taper	300'
70	W^2	670' 730' 790'	On a Taper	330'
75	W^2	780' 850' 920'	On a Taper	360'
80	W^2	900' 980' 1060'	On a Taper	390'

* Conventional Roads Only
 ** Taper lengths have been rounded off.
 *** Length of Taper (ft) Width of Offset (ft) S-Posted Speed (mph)

TYPICAL USAGE

MOBILE	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
TCP (5-1a)	TCP (5-1b)	TCP (5-1c)	TCP (5-1d)

GENERAL NOTES

- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30' to 100' in advance of the area of work exposure without adversely affecting the performance or quality of the work. Type 3 barricades or drums may be substituted when workers on foot are no longer present when approved by the Engineer.
- 28" tall or taller one-piece cones will be allowed only for Short Duration or Short Term stationary operations when workers are present to maintain the devices upright and in position. When workers are not present, the cones should use drums, vertical panels or 42" tall two-piece cones.

TRAFFIC CONTROL PLAN
SHOULDER WORK FOR
FREeways / EXPRESsWAYS

TCP (5-1)-18

Project: 1257-1-18-000 Date: 10/1/18
 Drawn by: J. J. J. Date: 10/1/18
 Checked by: J. J. J. Date: 10/1/18
 Scale: 1" = 100' Sheet No. 20 of 20

A. GENERAL SITE DATA

1. PROJECT LIMITS: #449 FROM: NORTH OF E CALHOUN ST TO: SOUTH OF E CALHOUN ST
 Bepth Project Coordinates :Latitude (N) : 32.2441633 Longitude (W) : -96.4960874
 End Project Coordinates :Latitude (N) : 32.2433856 Longitude (W) : -96.4967532

2. PROJECT SITE MAPS:

- Project Location Map, Title Sheet and Project Layout Sheet 3
- Site Plan, n/a
- Some Anticipated After Major Grubbing or Areas of Soil Disturbance n/a
- Location of Erosion and Sediment Controls: Landscape Layout and Irrigation Plan (Sheets 28-31)
- Surface Erosion and Discharge Locations: Landscape Layout and Irrigation Plan (Sheets 28-31)
- Project Specific Location(s) (P.S.) To be determined by the project engineer.
- Location(s) shown on SWP3P Binder (Reference Item #10 below).

3. PROJECT DESCRIPTION:

Construction work will consist of landscaping, planting and low water irrigation, within existing unpaved TxDOT right of way.

4. MAJOR SOIL DISTURBING ACTIVITIES:

Clearing and grubbing for planting and irrigation installation.

5. EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:

Wheat, Clay loam, 10%-15% slopes, native grass cover 85%-90% coverage (density)

6. TOTAL PROJECT AREA:

0.50 Acres

7. TOTAL AREA TO BE DISTURBED:

0.30 Acres (60%)

8. WEIGHTED RUNOFF COEFFICIENT

BEFORE CONSTRUCTION: 0.38

AFTER CONSTRUCTION: 0.35

9. NAME OF RECEIVING WATERS:

Project area drains to nearby wetland (freshwater pond) and within basin of Rice Branch, a tributary of the Red River. (See Attachment #10)

10. PROJECT SWP3P Binder:

A. For projects disturbing one to five acres, TxDOT will maintain a SWP3P 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, TCD Signature Authority, TxDOT's and Contractor's Small Construction Site Notice, SWP3P Inspector Qualification Statement, Erosion Control Plan, Site Location Map, Topographic Map, and a map of the project area. (See Attachment #10) B. For projects disturbing less than one acre, TxDOT will maintain a SWP3P Binder at the project field office 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 (10A), 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 Small Site Notice), and TPDES Permit Coverage Notice.

C. For projects disturbing less than one acre, actions described in (10A.) and (10B.) above are not required. Acreage is calculated by adding Total Area To Be Disturbed Acres on a project (See #7 above) and the PSL(s) acreage located within one mile of project.

B. EROSION AND SEDIMENT CONTROLS

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

- TEMPORARY SEEDING P PRESERVATION OF NATURAL RESOURCES
- MULCHING (Hay or Straw) P FLEXIBLE CHANNEL LINER
- BUFFER ZONES P ROD CHANNEL LINER
- PLANTING P INTERMITTENT SLOPE PROTECTION
- SEEDING P COMPOST MANUFACTURED TOPSOIL
- SODDING P VERTICAL TRACING
- OTHER: (Specify Practices) P

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

- SILT FENCES P
- EROSION CONTROL LOGS P
- ROCK FILTER DAMS P
- DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES P
- DIVERSION, INTERCEPTOR, OR PERIMETER SWALES P
- PIPE SLOPE DRAINS P
- PAVED FLUMES P
- ROCK CHANNELS P
- TUBES PLACING AT CONSTRUCTION EXIT P
- CHANNEL LINERS P
- SEDIMENT BASINS P
- STONE INLET SEDIMENT TRAP P
- STONE OUTLET STRUCTURES P
- CURBS AND GUTTERS P
- STONE SEDGES P
- CONTROL DEVICES P
- OTHER: (Specify Practices) P

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, belts, and storm water systems which carry drainage within the R.O.W. to the loss 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 : 1 or flatter slopes with permanent vegetative cover.

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

A. See construction progress schedule for schedule and durations of relevant soil disturbance and stabilization activities.

B. To the extent practicable, preserve existing vegetation, maintain a vegetative buffer along reaching waters, and phase construction activities to minimize exposure of disturbed soil.

C. Install SWP3P control devices (BMP's) to protect reaching waters, downstream parameters, and active roadways prior to potential pollutant generating construction activities in their vicinity per SWP3P Site Map or as needed and as directed or authorized by the Engineer. Do not allow BMP's to be disturbed prior to or as needed and as directed or authorized by the Engineer. Do not allow BMP's to be disturbed in that area and progress through to final soil stabilization without delay.

D. Where work has temporarily caused in a disturbance area (L.A.) all excess 14 days before start of disturbance activity or initiation of final stabilization measures, temporary stabilize soils per TMD150000, with vertical tracing, temporary seeding, and mulch, and velocity and damppage perimeter controls, as appropriate and /or as directed by engineer.

E. Re-vegetate disturbed soils in completed project areas as soon as practicable or as directed by engineer.

F. When construction activity is complete, project area is stabilized, and as directed or authorized by engineer, remove all temporary SWP3P controls.

G. Labor and materials for temporary soil stabilization measures required by TMD150000 due to Contractor's delay will be at Contractor's expense, unless otherwise pre-approved by Engineer.

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 include oil, paint, solvents, and other pollutants. Do not allow any non-storm water, including water used for dust control or pavement washing and vehicle washwater containing no detergents.

C. OTHER REQUIREMENTS & PRACTICES

1. MAINTENANCE:

Maintain all erosion and sediment controls in good working order. Perform any necessary cleaning/repairs/maintenance 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 limitations described. When construction activities permanently disturb an area, erosion and sediment controls must be initiated immediately.

2. INSPECTION:

A. TxDOT Inspector will perform a regularly scheduled SWP3P inspection every 7 calendar days. An Inspection and Maintenance Report, signed by the TxDOT Inspector and the Contractor, will be submitted to the TxDOT District Office. The TxDOT District Office will then forward this report to the current Field Inspection and Maintenance Report (Form 2113) and Item 1 (Maintenance) above.

3. WASTE MATERIALS:

On a daily basis, as may be directed, collect all waste materials, trash and debris from the construction site and deposit into a sealed 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:

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:

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.

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 sealer to be used on project entrances/exits to remove sediment from paved roadways on project, doubling and traversing the project site.

7. MANAGEMENT PRACTICES:

A. Construct erosion and sediment control and PSL's in a manner that will minimize and control the amount of sediment that may enter reaching waters. Do not locate exposed areas in any wetland, waterbody or streambed.

B. Locate construction storage 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 obstructions as soon as practicable of temporary embankment, temporary bridges, matting, sediment, filling, debris or other obstructions placed during construction operations that are not a part of the finished work.

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

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



Signature of Registrant: *Anthony Diep* P.E. 03/31/2022 Date

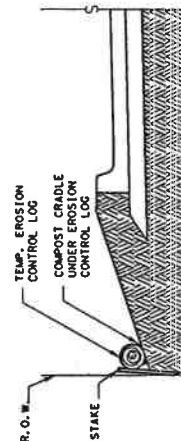
Texas Department of Transportation
 © 2021

DALLAS DISTRICT ENVIRONMENTAL

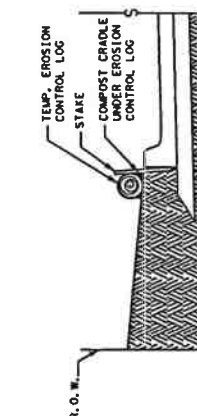
STORM WATER POLLUTION PREVENTION PLAN (SWP3P)

TEMPLATE REVISION DATE:	02/07/18
AV	FEDERAL AID PROJECT NO.
AD	STATE
AD	COUNTY
AD	DISTRICT
AD	SECTION
AD	0092
AD	06
AD	109
AD	25

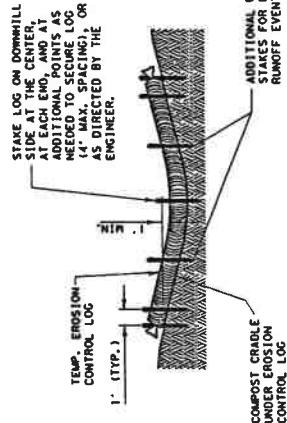
1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE ENGINEER.
2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
3. UNLESS OTHERWISE DIRECTED, USE BIOLOGICALLY OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4" LONG, EMERDED SUCH THAT PROTRUSIONS ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
7. COMPOST CHADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
8. SANDBAGS USED AS ANCHORS SHALL BE PLACED IN SUCH MANNER AS TO BE SUFFICIENT IN SIZE TO HOLD LOGS IN PLACE.
9. TURN THE ENDS OF EACH ROW OF LOGS UPSIDE DOWN TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.



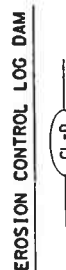
SECTION C-C



SECTION 8-B



SECTION A-A



CL-D	EROSION CONTROL LOG DAM
CL-BOC	EROSION CONTROL LOG AT BACK OF CURB
CL-ROW	EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY
CL-SST	EROSION CONTROL LOGS ON SLOPES STAKE AND TRENCING ANCHORING
CL-SSL	EROSION CONTROL LOGS ON SLOPES STAKE AND LASHING ANCHORING
CL-DI	EROSION CONTROL LOG AT DROP INLET
CL-CI	EROSION CONTROL LOG AT CURB INLET
CL-GI	EROSION CONTROL LOG AT CURB & GRATE INLET



DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS

SEDIMENT BASIN & TRAP USAGE GUIDELINES

Sediment Control Log Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/acre (0.5" over the drainage area).

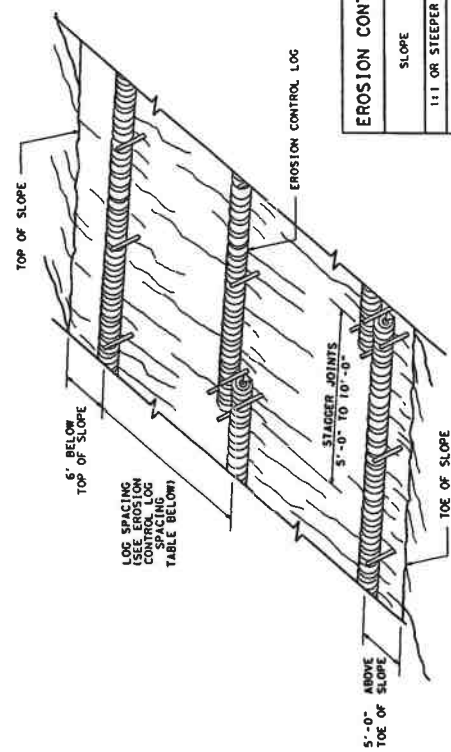
Control logs should be placed in the following locations:

1. Control logs should be placed in the following locations:
 1. within drainage ditches spaced as needed or min. 500' on center
 2. immediately preceding ditch inlets or drain inlets
 3. just before the drainage enters a water course
 4. just before the drainage leaves the right of way
 5. just before the drainage leaves the construction site where drainage flows away from the project.

the logs should be cleaned when the sediment has accumulated to a depth of $1/2$ the log diameter.

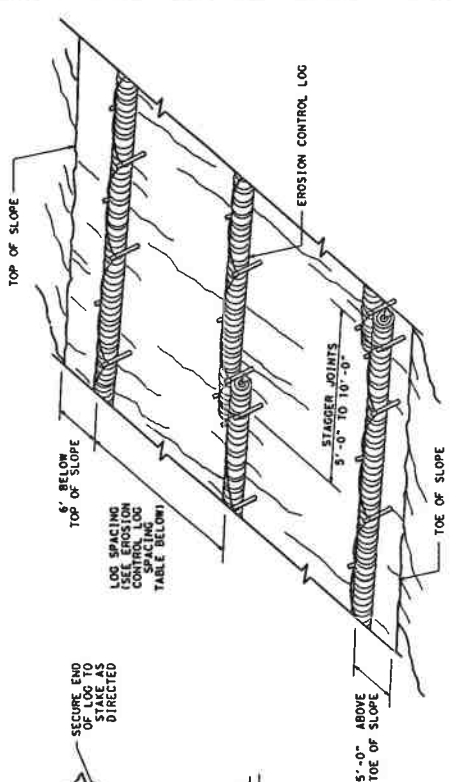
cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.

FILE: 0916	DATE/TIME	COUNTY	INVESTIGATOR	LABORATORY
© TADOT: JULY 2016	09/22/08	109	BH-45	
REVISED:	DIST:	COUNTY:	SACCT NO.	
	118	NAVARRO	19	



EROSION CONTROL LOGS ON SLOPES
STAKE AND TRENCHING ANCHORING

CL-SST

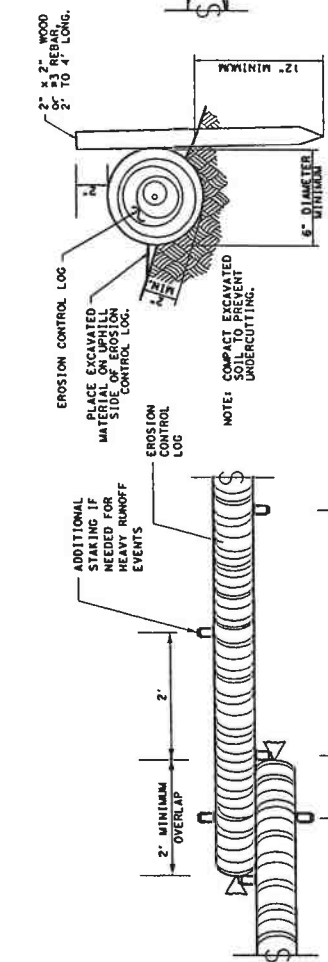


EROSION CONTROL LOGS ON SLOPES
STAKE AND LASHING ANCHORING

CL-SSL

EROSION CONTROL LOG SPACING TABLE	
SLOPE	LOG DIAMETER
1:1 OR STEEPER	6" 8" 12" 18" 20"
2:1	5" 10" 15" 20" 30" 40"
3:1	10" 20" 30" 45" 60"
4:1 OR FLATTER	20" 40" 60" 80"

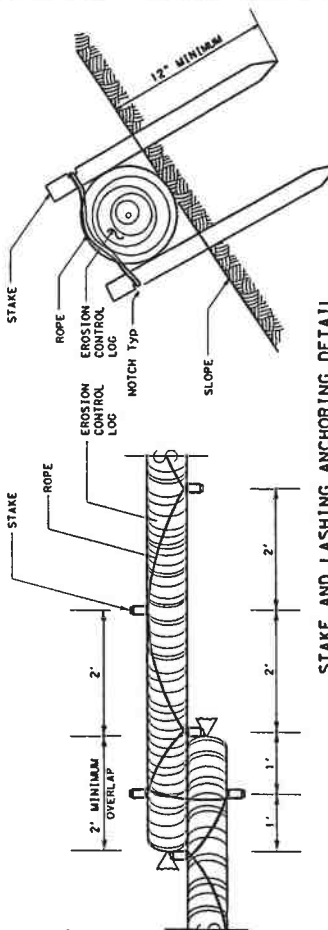
* ADJUSTMENTS CAN BE MADE FOR SOIL TYPE:
SOFT, LOAMY SOILS-ADJUST ROWS CLOSER TOGETHER;
HARD, ROCKY SOILS- ADJUST ROWS FARTHER APART



STAKE AND TRENCHING ANCHORING DETAIL

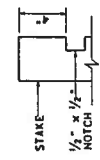
CL-SST

TRENCH DEPTH TABLE	
LOG DIAMETER	DEPTH
6"	2"
8"	3"
12"	4"
18"	5"



STAKE AND LASHING ANCHORING DETAIL

CL-SSL



STAKE NOTCH DETAIL

DESIGN DIVISION STANDARD

Texas Department of Transportation

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC (9) - 16

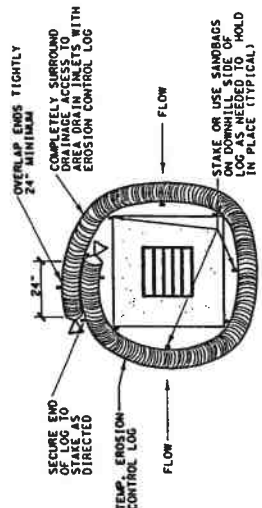
FILE: 44116 DATE: 10/1/16

PROJECT: 0002108

SECTION: 108

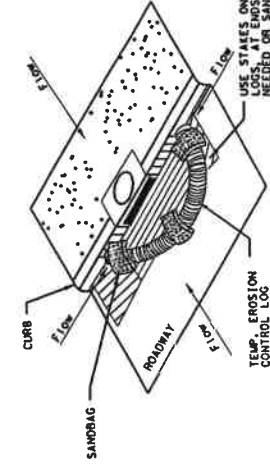
SHEET NO. 20

NAVARRO COUNTY



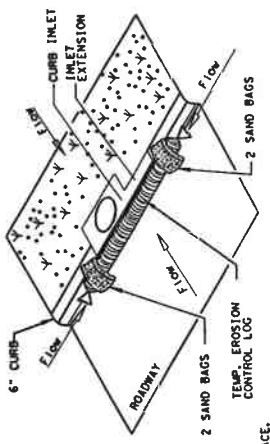
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

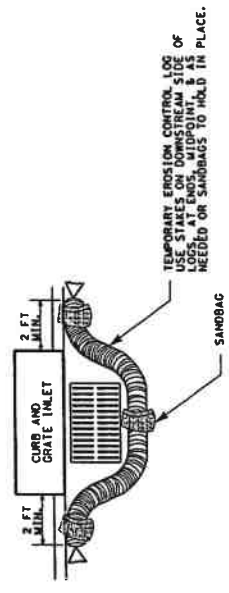
CL-CI



EROSION CONTROL LOG AT CURB INLET

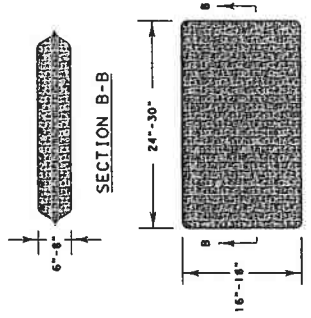
CL-CI

NOTE:
 EROSION CONTROL LOGS USED AT CURB INLETS
 SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE
 TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE
 STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



EROSION CONTROL LOG AT CURB & GRADE INLET

CL-CI



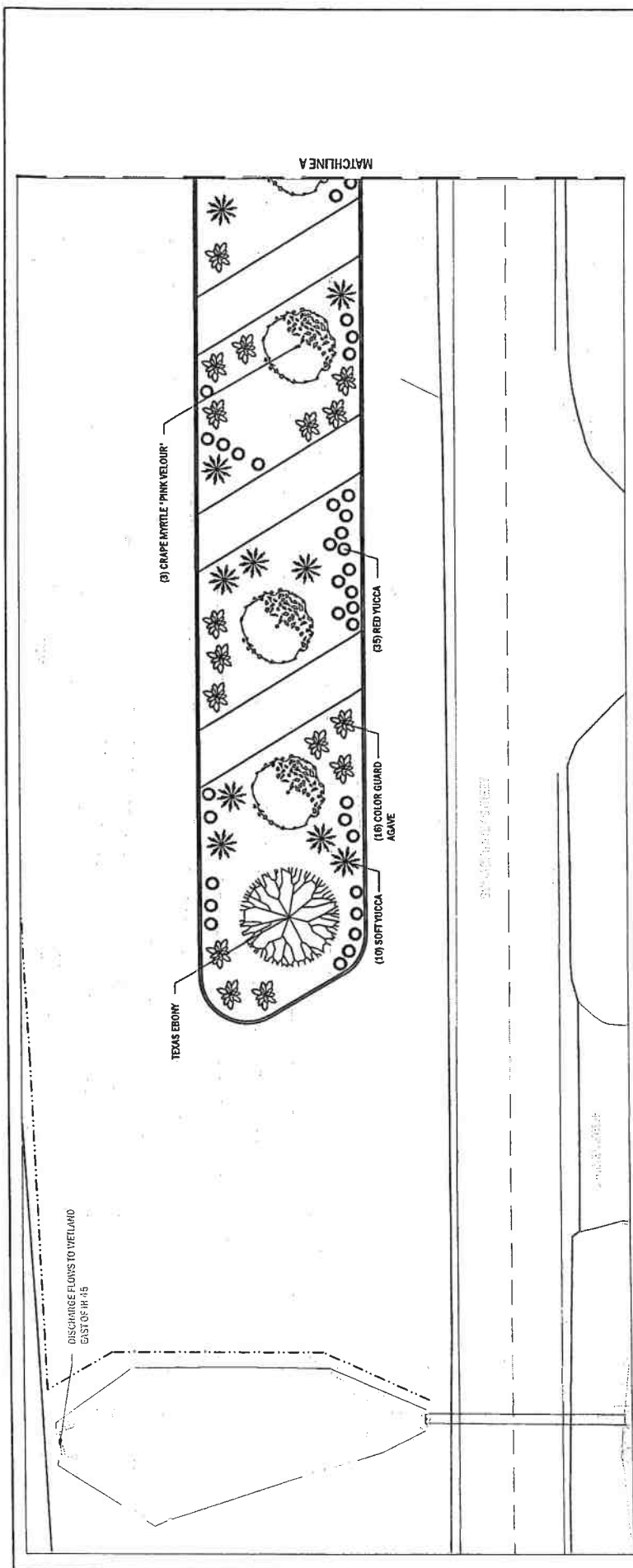
SANDBAG DETAIL



Design
 Standard

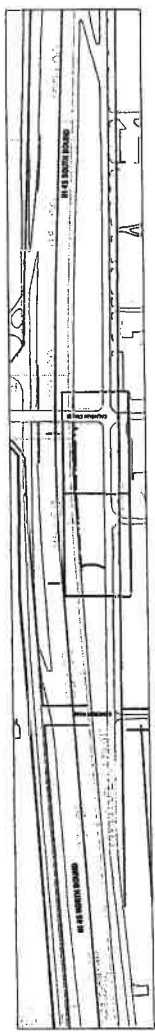
TEMPORARY EROSION,
 SEDIMENT AND WATER
 POLLUTION CONTROL MEASURES
 EROSION CONTROL LOG
 EC (9) - 16

FILE: 65316	REV: 001	REV: 001	REV: 001	REV: 001	REV: 001
DATE: JULY 2016	DATE: JULY 2016	DATE: JULY 2016	DATE: JULY 2016	DATE: JULY 2016	DATE: JULY 2016
REVISION	REVISION	REVISION	REVISION	REVISION	REVISION
0002	001	002	003	004	005
BY: [blank]	BY: [blank]	BY: [blank]	BY: [blank]	BY: [blank]	BY: [blank]
CHECKED: [blank]	CHECKED: [blank]	CHECKED: [blank]	CHECKED: [blank]	CHECKED: [blank]	CHECKED: [blank]
DATE: [blank]	DATE: [blank]	DATE: [blank]	DATE: [blank]	DATE: [blank]	DATE: [blank]
18	19	20	21	22	23
NAVARRO	NAVARRO	NAVARRO	NAVARRO	NAVARRO	NAVARRO
21	21	21	21	21	21



PLANT LEGEND

SYMBOL	COMMON NAME	SCIENTIFIC NAME	CAL	GAL	NOTES/DESCRIPTION
	TEXAS EBONY	<i>Ebenopsis ebano</i>	4"	65 GAL	MULTIPLE TRUNK - MIN 2
	CRAPE MYRTLE	<i>Lagerstroemia indica</i> L.	3"	30 GAL	MINIMUM OF 5 BRANCHES WITH HEALTHY BARK
	SOFT YUCCA	<i>Yucca recurvifolia</i>		5 GAL	FULL ROUND STRUCTURE
	COLOR GUARD AGAVE	<i>Yucca filamentosa</i> 'Color Guard'		5 GAL	FULL ROUND STRUCTURE
	RED YUCCA	<i>Hesperaloe parviflora</i>		3 GAL	FULL ROUND STRUCTURE



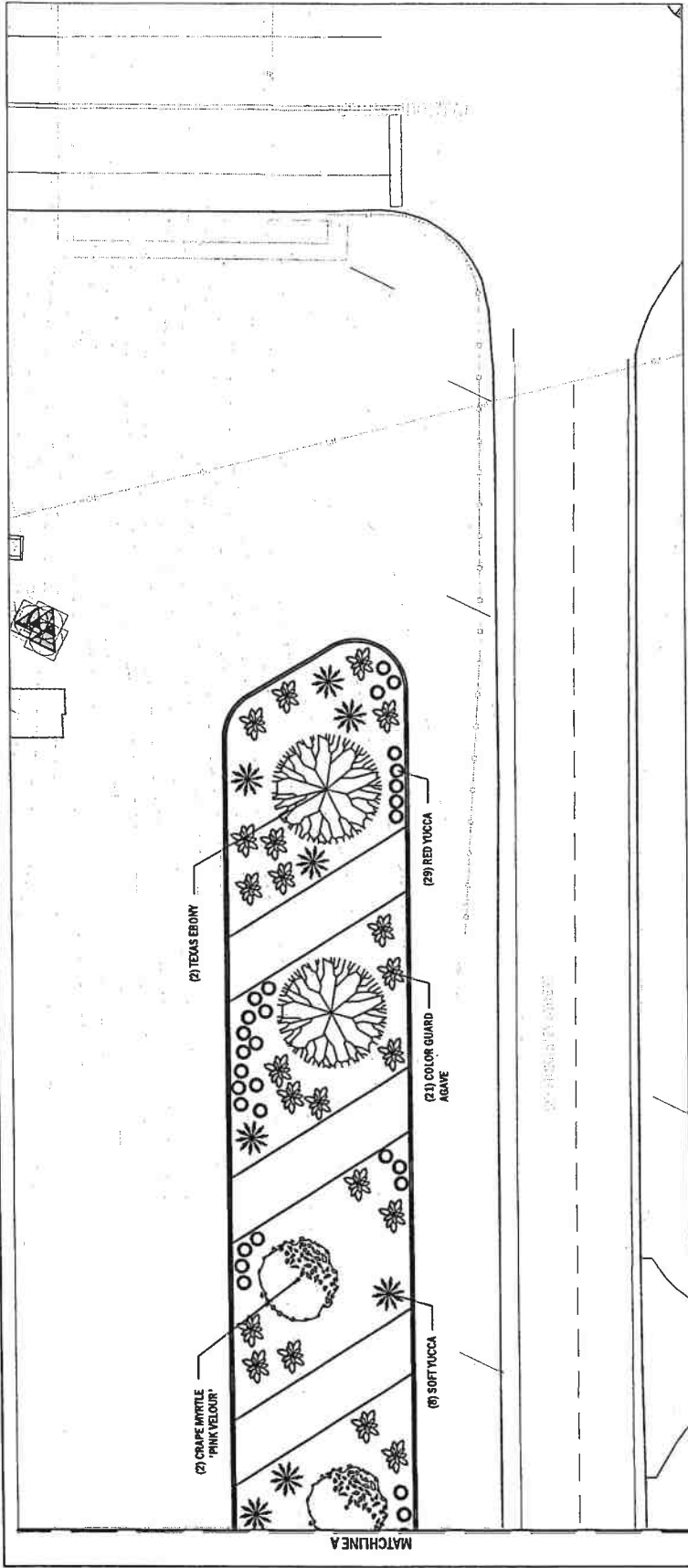
Texas Department of Transportation
© 2022

CITY OF RICE
LANDSCAPE PLANTING

DESIGNER	AV	FEDERAL AID PROJECT NO.	1 OF 2
STATE	TX	C 92-6-109	11-45
COUNTY	AV	DISTRICT	COUNTY
CITY	TEXAS	DALLAS	NAVARRO
CHECK	0092	SECTION	26
		JOB	109

ANTHONY DIEP
REGISTERED LANDSCAPE ARCHITECT
STATE OF TEXAS
3699

Signature of Registered Professional
Date 03/31/2022

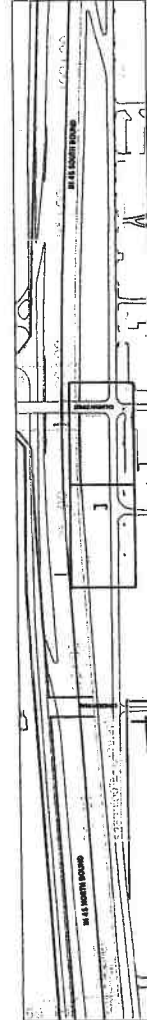


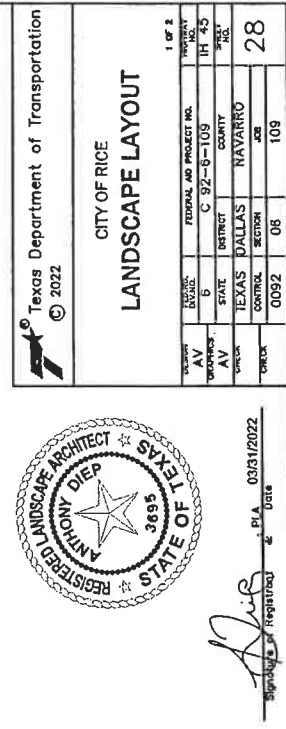
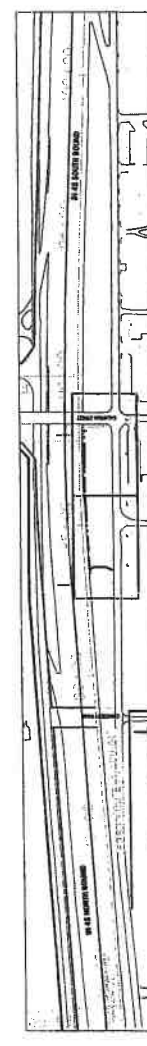
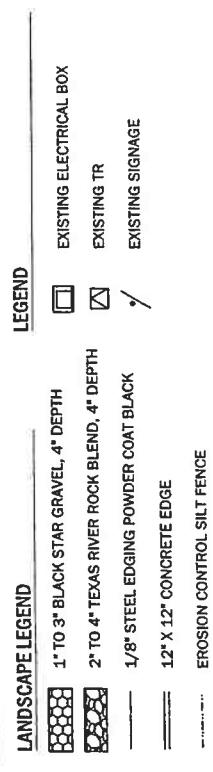
Signature of Registered & Date
 03/31/2022

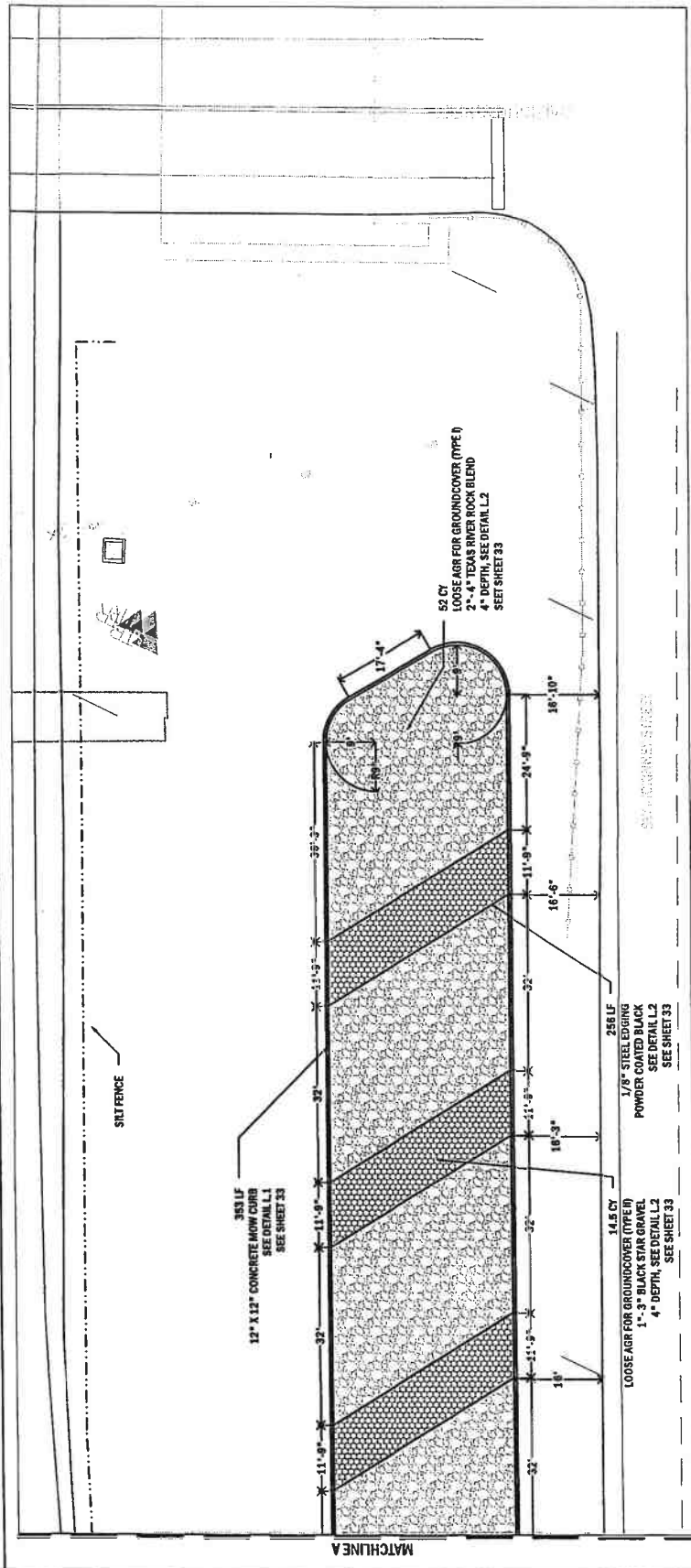
Texas Department of Transportation
 © 2022

CITY OF RICE LANDSCAPE PLANTING

SHEET NO.		SHEET TOTAL	
27		27	
PROJECT NO.		PROJECT NAME	
C 92-6-109		CITY OF RICE	
STATE		COUNTY	
TEXAS		DALLAS	
SECTION		SECTION	
0092		06	
CHECK		DATE	
0092		06	







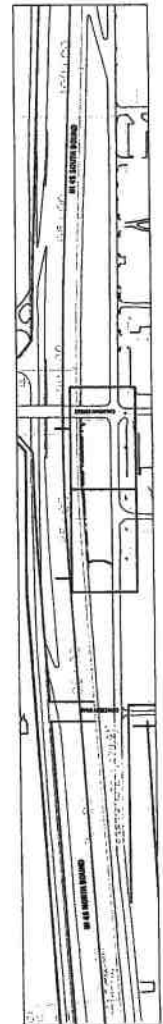
Texas Department of Transportation
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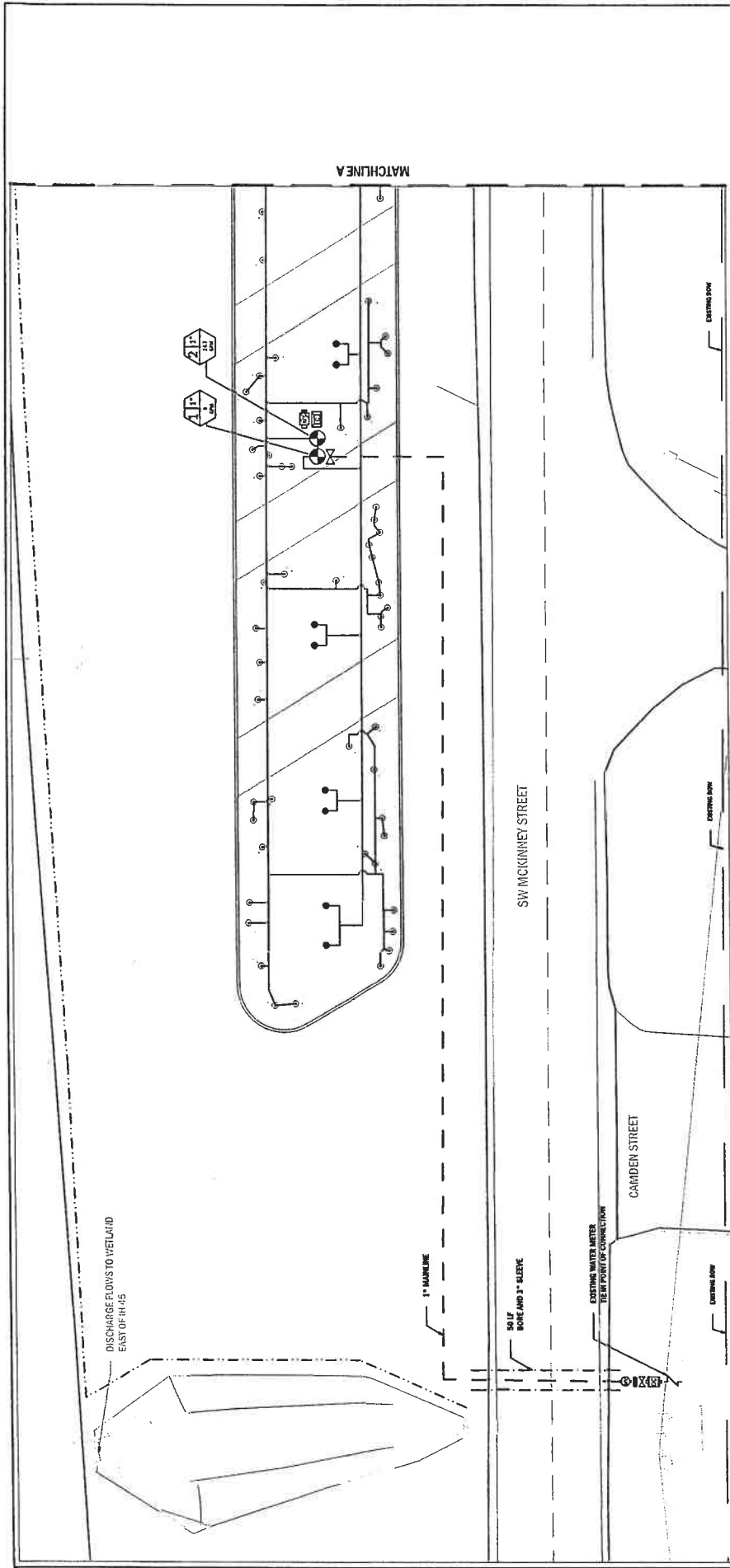
CITY OF RICE LANDSCAPE LAYOUT

DESIGN	AV	DATE	05/09/22	FEDERAL AID PROJECT NO.	C 92-8-109	PROJECT	11-45
STATE	TEXAS	DISTRICT	DALLAS	COUNTY	NAVARRO	SECTION	29
CHECK	0092	DATE	05	109			



Anthony Diep
Signature of Registered Architect
Date 03/31/2022





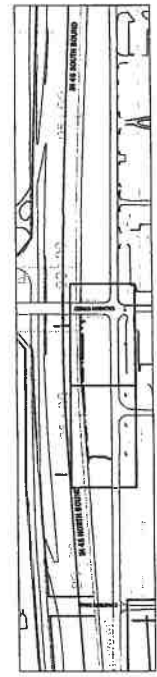
Texas Department of Transportation
© 2022

CITY OF RICE IRRIGATION PLAN

PROJECT NO.	103
FEDERAL AID PROJECT NO.	C 92-6-103
STATE	TEXAS
COUNTY	DALLAS
DISTRICT	NAVARRO
SECTION	06
JOB	103
DATE	0092



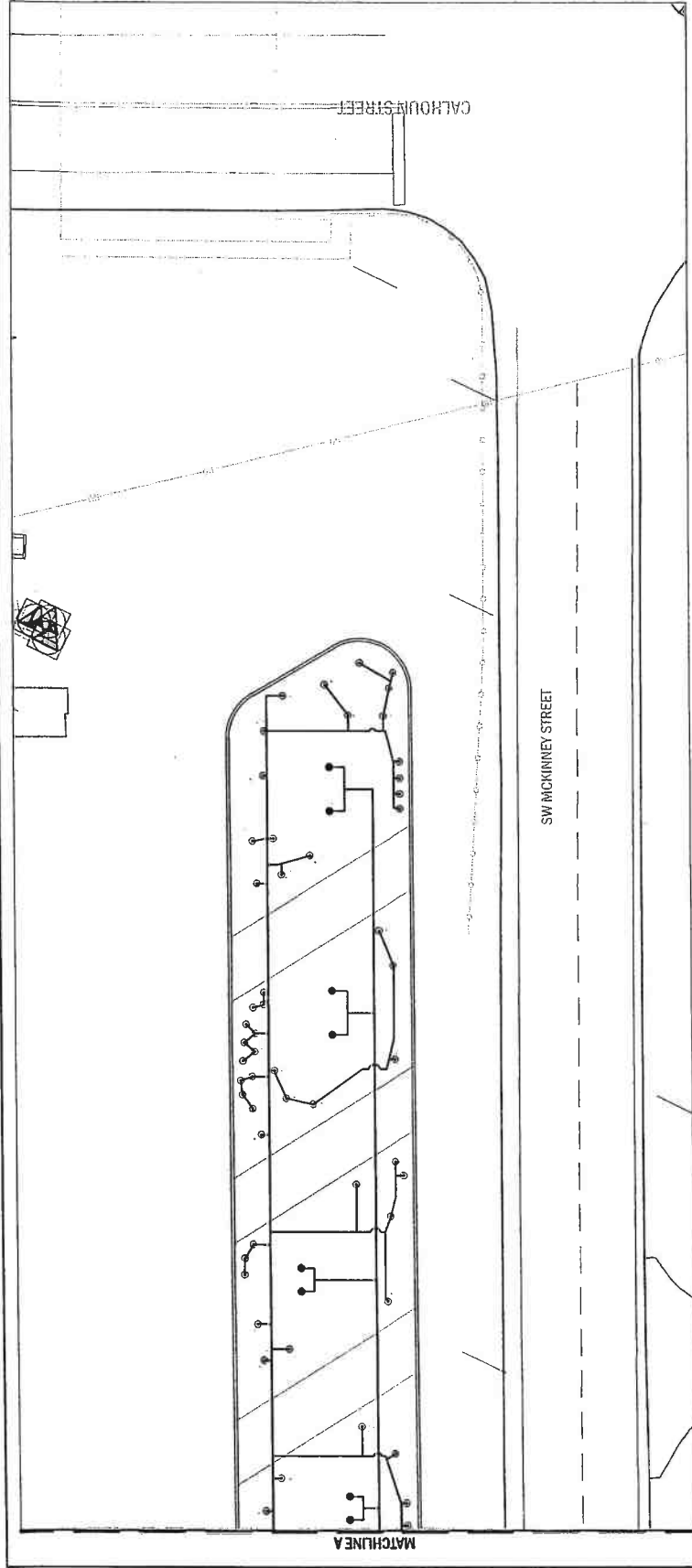
Signature of Registered Engineer
Date 03/31/2022



- ### IRRIGATION LEGEND

 - (.25, .50) GPM PCB
 - MAINLINE
 - LATERAL
 - BORE/SLEEVE 3"
 - MASTER VALVE
 - Y STRAINER
 - CUTOFF/BALL VALVE
 - DOUBLE CHECK ASSEMBLY
 - RAIN AND FREEZE SENSOR
 - SOLAR POWERED CONTROLLER
 - VALVE
- ### LEGEND

 - EXISTING ELECTRICAL BOX
 - EXISTING TR
 - EXISTING SIGNAGE
 - EXISTING WATER TIE IN
 - STATION # 1 SIZE OF VALVE GALLONS PER MINUTE



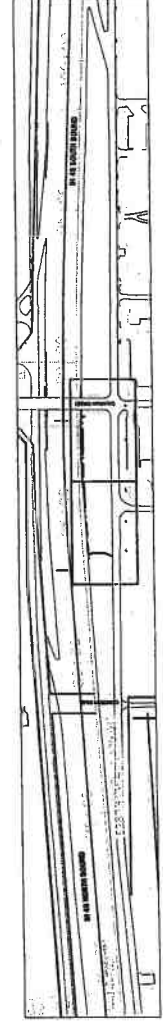
Texas Department of Transportation
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CITY OF RICE
IRRIGATION PLAN

PROJECT	AV	SECTION	0092	DATE	08	109
STATE	TEXAS	COUNTY	DALLAS	SECTION	0092	109
CITY	AV	CITY	DALLAS	SECTION	0092	109
PROJECT	AV	SECTION	0092	DATE	08	109

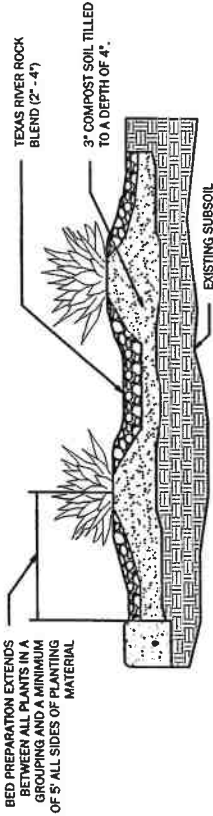


Signature of Registered Professional
Date 03/31/2022



GENERAL NOTES

- Contractor will be responsible for referencing Item 192 of the Texas Standard Specifications for Construction of Highways, Streets and Bridges 2014 for specifications, dimensions, volumes and measurements that have been modified or not shown.
 - All plants will be nursery grown in containers unless otherwise shown on plans.
 - Rejection of plants will be in accordance with Item 192.2.
 - Locations of trees, shrubs, and beds will be staked in the field by the Contractor in accordance with Item 192.3.
 - The Contractor will be responsible for the safe transportation of plants to the project site location and their condition upon arrival.
 - Plant materials will not be stored on hard surfaces or left exposed to the sun.
 - Protect the root ball and water regularly until planting.
 - If plants are left in storage over the weekend or holiday, a means of periodically watering and inspecting container moisture must be provided.
 - All plants will be hardy, symmetrical, tight knit, and so trained or favored in development and appearance as to be superior in form, number or branches, and compactness. Plants will be sound, healthy and vigorous, well branched, densely foliated when in leaf, and will have healthy, well developed root systems.
- PLANTING BED PREPARATION:**
Apply three inches (3") of General Use Compost to all planting areas and thoroughly till to a depth of six inches (6"). Specification Item 161 Compost - General Use Compost will be considered subsidiary to Item 192, Planting Bed Prep



P.1 SHRUB PLANTING DETAIL
N.T.S.

LAYOUT NOTES:

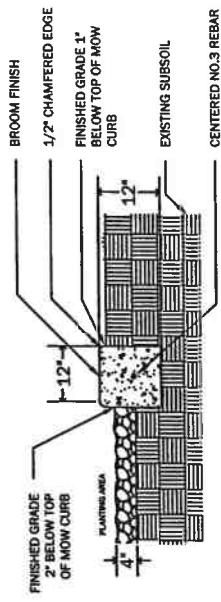
- Dimensions are shown for general layout guidance: mow strip and bed edges shall smooth flowing.
- Contractor shall mark mow strip and bed edge locations in field with paint for approval by Landscape Architect before excavation for bed preparation begins.
- Contractor shall have form work placement approved by Landscape Architect prior to pouring concrete.



Signature of Registered Architect: *Anthony Diep* P.L.A. 03/31/2022 Date

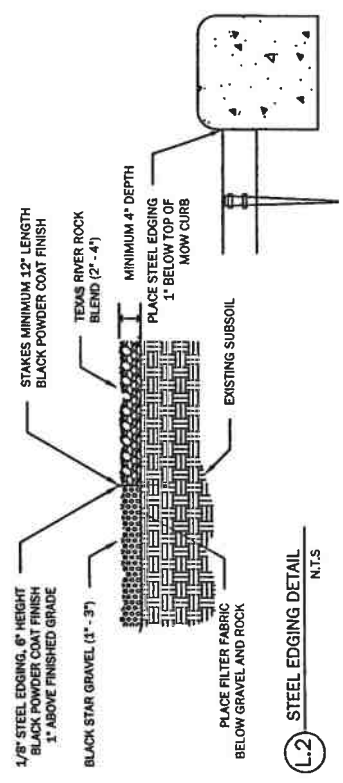
Texas Department of Transportation © 2022		CITY OF RICE PLANTING DETAILS	
SECTION AV DRAWING NO. 0 SHEET NO. 32	PROJECT NO. C 92-5-109 COUNTY DALLAS CITY NARAYO SECTION 06 JOB 109	1 OF 1	

PLANT SPECIFICATIONS					Item 192.3(2)	Item 192.3(3)	Spread	Remarks
Botanical Name	Common Name	Color	Quantity	Root Condition	Caliper	Height		
LARGE TREES (ITEMS 192-6025)								
<i>Lagerstroemia indica</i> 'PINK VELOUR'	Crape Myrtle	Pink Flower	5		3" Caliper	10'-12" Height		
<i>Ebenopsis ebano</i>	Texas Ebony		3		4" Caliper	11'-14" Height		
SMALL TREES/LARGE SHRUBS (ITEMS 192-6005 & 192-6024)								
<i>Yucca recurvifolia</i>	Soft Yucca		18		2" Caliper	2'-4" Height		Single Trunk
<i>Yucca filamentosa</i> 'color guard'	Color guard agave		37			1'-2" Height		Full Layers
SHRUBS/ORNAMENTAL GRASS (ITEM 192-6018)								
<i>Hesperaloe parviflora</i>	Red Yucca		64			4'-8" Height		Full Layers



L.1 CONCRETE MOW CURB DETAIL
N.T.S.

- NOTES:
- FINISH GRADE INSIDE PLANTING AREA TO BE 2' BELOW TOP OF MOW CURB AND 1' BELOW TOP OF MOW CURB OUTSIDE OF PLANTING AREAS
 - CONTROL JOINT TO BE INSTALLED AT INTERVALS NOT TO EXCEED 5 FEET
 - 1/2" EXPANSION JOINTS TO BE INSTALLED AT INTERVALS NOT TO EXCEED 20 FEET
 - REBAR TO BE CONTINUOUS WITH 18" OVERLAP SPLICES AND CENTERED WITH MINIMUM 2" CLEARANCE FROM EDGES



L.2 STEEL EDGING DETAIL
N.T.S.



Anthony Diep
Signature of Registered Professional
P.L.A. 03/01/2022
Date

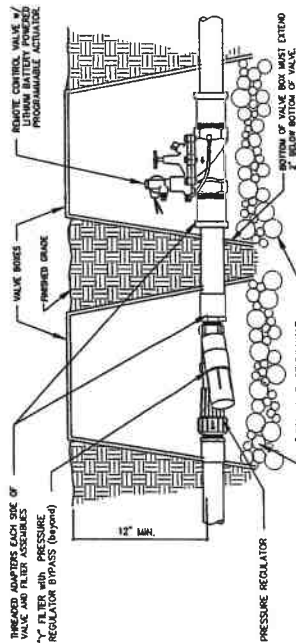
Texas Department of Transportation
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CITY OF RICE

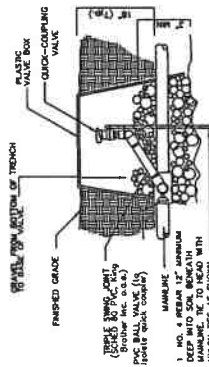
LANDSCAPE LAYOUT DETAILS

1 OF 1

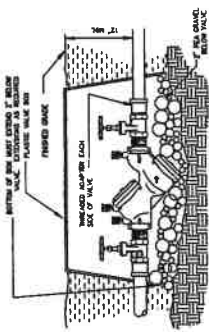
DESIGN	NO. 6	FEDERAL AID PROJECT NO.	7000000
AV	6	DISTRICT	IT 45
STATE	TX	COUNTY	DAWSON
LOCAL	TEXAS	CITY	NAVARRO
SECTION	0092	SHEET	33
DATE	06	JOB	109



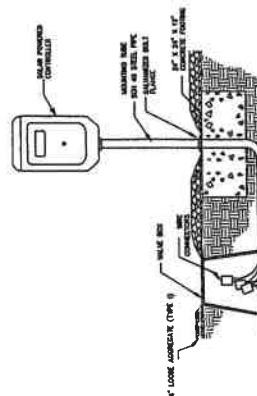
1.1 VALVE ASSEMBLY FOR DRIP IRRIGATION SECTIONS
 HANDBOOK 3300C OR APPROVED EQUAL



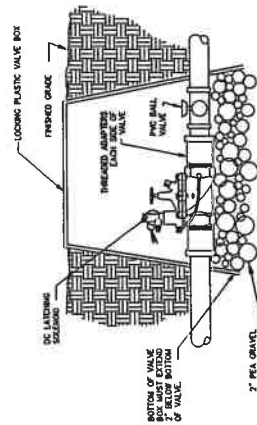
1.4 QUICK-COUPLING VALVE
 HANDBOOK 3300C OR APPROVED EQUAL



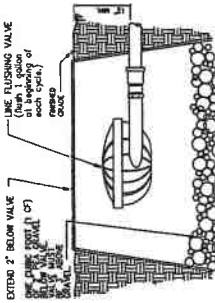
1.5 DOUBLE-CHECK VALVE
 HANDBOOK 3300C OR APPROVED EQUAL



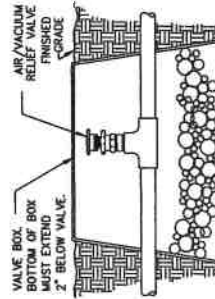
1.7 SOLAR POWERED CONTROLLER
 N.T.S.



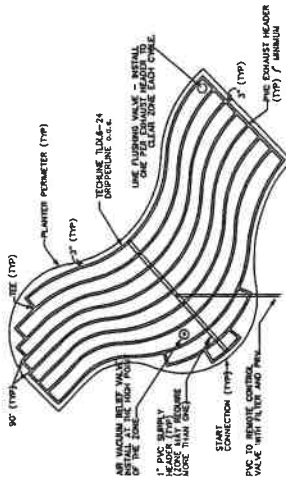
1.8 CONTROL VALVE IN BOX
 N.T.S.



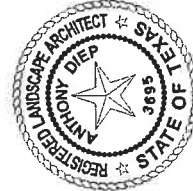
1.2 LINE FLUSHING VALVE
 N.T.S.



1.3 AIR/VACUUM RELIEF VALVE
 N.T.S.



1.6 DRIP TUBING PLANTER LAYOUT (TYP)
 N.T.S.



Signature of Registered & Date 03/31/2022

Texas Department of Transportation
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CITY OF RICE
 IRRIGATION DETAILS

PROJECT NO.	0092	SECTION	06	JOB	109
FEDERAL AID PROJECT NO.	C 92-6-109	COUNTY	NAVARRO		
DISTRICT	0	STATE	TEXAS		
AV	AV	CONTROL	0092		
AV	AV	SECTION	06		
AV	AV	JOB	109		
AV	AV	DATE	03/31/2022		

34

CHILD SUPPORT STATEMENT

Under Section 231.006, Family Code, the vendor or applicant certifies that the individual or business entity named in this contract, bid, or application is not ineligible to receive the specified grant, loan, or payment and acknowledges that this contract may be terminated and payment may be withheld if this certification is inaccurate.

State of Texas Child Support Business Ownership Form

County: _____

Project Name: _____

TxDOT CSJ: _____

LG Project Number: _____

Business Entity Submitting Bid: _____

Section 231.006, Family Code, requires a bid for a contract paid from state funds to include the names and social security number of individuals owning 25% or more of the business entity submitting the bid.

1. In the spaces below please provide the names and social security number of individuals owning 25% or more of the business.

Name	Social Security Number
_____	_____
_____	_____
_____	_____
_____	_____

2. Please check the box below if no individual owns 25% or more of the business.

() No individual own 25% or more of the business.

Except as provided by Section 231.302(d), Family Code, a social security number is confidential and may be disclosed only for the purpose of responding to a request for information from an agency operating under the provisions of Part A and D to Title IV of the Federal Social Security Act (42 USC Section 601-617 and 651-699).

Under Section 231.006, Family Code, the vendor or applicant certifies that the individual or business entity named in this contract, bid, or application is not ineligible to receive the specified grant, loan, or payment and acknowledges that this contract may be terminated and payment may be withheld if this certification is inaccurate.

The information collected on this form will be maintained by Enter Local Government Name. With few exceptions, you are entitled on request to be informed about the information collected about you. Under Sections 552.021 and 552.023 of the Texas Government Code, you also are entitled to receive and review the information. Under Section 559.004 of the Government Code, you are also entitled to have information about you corrected that you believe is incorrect.

Signature

Date

Printed Name

IF THIS PROJECT IS A JOINT VENTURE,

ALL PARTIES TO THE JOINT VENTURE MUST PROVIDE A COMPLETED FORM.

NON-COLLUSION AFFIDAVIT

The undersigned bidder or agent, being duly sworn on oath, says that he/she has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to include anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He/She further says that no person or persons, firms, or corporation has, have, or will receive directly or indirectly, any rebate, fee gift, commission, or thing of value on account of such sale.

OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES FOR PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT.

Signature: _____
Printed Name: _____
Title: _____
Company: _____
Date: _____

STATE OF TEXAS

COUNTY OF NAVARRO

Before me, a Notary Public, personally appeared the above named and swore that the statement contained in the foregoing document are true and correct.

SUBSCRIBED and sworn to me this _____ day of _____, _____.

Notary Public in and for the
State of Texas

My commission expires: _____

DISADVANTAGED BUSINESS ENTERPRISES **REQUIREMENTS**

PROJECT: City of Rice IH 45 ' GREEN RIBBON'

HIGHWAY: IH 45

COUNTY: Navarro

TXDOT CSJ: 0092-06-109

The following goal for disadvantaged business enterprises is established:

DBE
0.00%

Certification of DBE Goal Attainment

By signing the proposal, the Bidder certifies that the above DBE goal will be met by obtaining commitment equals to or exceeding the DBE percentage or that the Bidder will provide a good faith effort to substitute the attempt to meet the goal.

Failure to provide commitments to meet the stated goal or provide a satisfactory good faith effort will be considered a breach of the requirements of the proposal. As a result, the bid proposal guarantee of the Bidder will be property of the City of Rice and the Bidder will be excluded for rebidding on the project when it is re-advertised.

