JEFFERSON COUNTY DRAINAGE DISTRICT NO.6

PLANS FOR 8TH STREET REPAIR PROJECT

PROJECT NO.:

IFB21-011/EC

PROJECT: LIMITS:

8TH STREET REPAIR PROJECT ELINOR STREET to DITCH 110

PROJECT LOCATION:

COUNTY:

JEFFERSON COUNTY

DESCRIPTION:

FOR THE REPAIR OF CONCRETE AND ASPHALT

PAVEMENT.

8TH STREET



BOARD OF DIRECTORS

PRESIDENT: JOUSI

JOUSHUA W. ALLEN, SR.

VICE PRESIDENT:

BERNIE DALEO

SECRETARY:

CHARLES GUILLORY

DIRECTOR:

ANTHONY MALLEY, III

DIRECTOR:

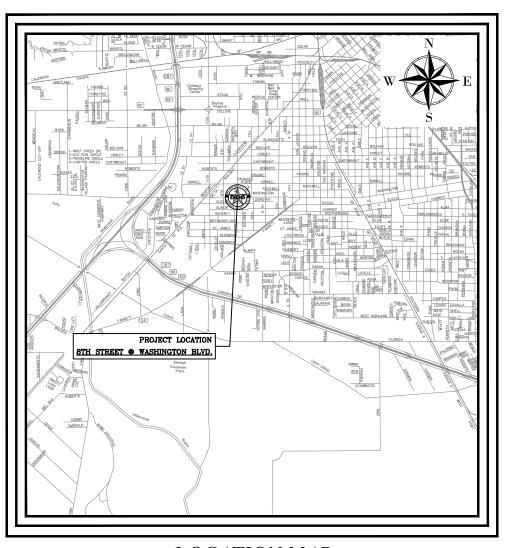
CHARLES KIKER, III

GENERAL MANAGER

DR. JOSEPH G. MAJDALANI, P.E., C.F.M.

DISTRICT ENGINEER

DOUG CANANT, P.E., R.P.L.S., C.F.M.



LOCATION MAP

SCALE: NTS

APRIL 2021

DATE
DATE
➤ CONSTRUCTION AS-BUILT
\$
DD6 is MS4 Operator
NA-Existing Road Foot Print
Filed with The City of Beaumont
NA
NA
11/1
Traffic Control Plan Attached
NA
YES NO 🗶

Harold E. Crochet, Jr.

04/01/2021

DATE

PREPARED BY:

HAROLD E. CROCHET, JR. PROJECT ENGINEER ASSISTANT

Wallow R. Webom P. E.

04/01/2021

DATE

APPROVED BY:

WALLACE R. WILSON, P.E. No.84857

SENIOR ENGINEER



THE CONTRACTOR SHALL PROVIDE AND ERECT BARRICADES AND CONSTRUCTION SIGNS IN ACCORDANCE WITH BC (1–12)–14 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AT POINTS AS SHOWN ON THE TITLE SHEET AND PLAN SHEETS AND AS DIRECTED BY THE ENGINEER. REQUIRED SIGNS SHALL BE IN ACCORDANCE WITH BC(1)–04 THRU BC(12)–14 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL—AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY, 2012).

INDEX OF SHEETS

GENERAL

SHEET NO. DESCRIPTION G01 TITLE SHEET

G02 INDEX OF SHEETS

G03 - 04 GENERAL NOTES & SPECIFICATIONS

ESTIMATE & QUANTITY SUMMARY SHEETS G05 - 07

TRAFFIC CONTROL PLAN

SHEET NO. DESCRIPTION

An approved Traffic Control Plan (TCP) is on file with the City of Beaumont and is available for review.

However, the Contractor must get an approved TCP from the City of Beaumont if the Contractor wants to use a different TCP.

DRAINAGE DETAILS

SHEET NO. DESCRIPTION

BRIDGES

SHEET NO. DESCRIPTION

ROADWAY DETAILS

SHEET NO. DESCRIPTION

RDT01 - 02 ROADWAY PLAN SHEET

RDT03 TYPICAL ROAD SECTION-CONCRETE

RDT04 TYPICAL ROAD SECTION-HMAC

RETAINING WALL DETAILS

SHEET NO. **DESCRIPTION**

UTILITIES

DESCRIPTION SHEET NO.

TRAFFIC ITEMS

SHEET NO. DESCRIPTION

RAILROAD

SHEET NO. DESCRIPTION

TxDOT Standards

DETAIL SHEETS

SHEET NO. DESCRIPTION

JRCP-01 JOINTED REINFORCED CONCRETE PAVEMENT DETAILS

JRCP-02 JOINTED REINFORCED CONCRETE PAVEMENT DETAILS

JS-14 CONCRETE PAVING DETAILS JOINT SEALS CCCG-21 CONCRETE CURB AND CURB AND GUTTER

ENVIRONMENTAL ISSUES

SHEET NO. DESCRIPTION

EC(1)-16 *TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES - SILT FENCE

EC(9)-16-1 to 3 *TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES - EROSION CONTROL LOGS

STATE COUNTY

STREET REPAIR PROJECT INDEX SHEET

General Notes and Specifications

- 1. The Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges, Adopted November 2014, will govern all specifications not directly addressed in this document.
- 2. Direct attention to comply with all ordinances and regulations of local municipal and county governments and the TCEQ (Texas Commission on Environmental Quality), which may be applicable on this project. General Construction Permit may be obtained online at
- https://www.tceq.texas.gov/permitting/stormwater through TCEQ. A Notice to Proceed will not be issued until all Permits are submitted to the City of Beaumont Public Works-Engineering Department for review. This will not be paid for directly and will be considered subsidiary to various bid items.
- 3. Any storm water permit and associated fees required for construction of this project shall be at the contractor's expense. Also, any temporary erosion, sediment and water control measures required shall be in accordance with the details shown in the plans, and all work and materials required will not be paid for directly but considered subsidiary to various bid items. Erosion control logs are to be utilized at every inlet within the affected area of construction and should remain in place throughout the duration of construction. Contractor shall submit SW3P plan prior to the start of construction. This will not be paid for directly and will be considered subsidiary to various bid items.
- 4. Procure all the necessary city and/or county permits and licenses before the start of this project.
- 5. Before excavating near existing utilities, contact the utility companies or the utility coordinating committee for exact locations to prevent damage or interference with present facilities. Notify the utility coordinating committee and the Texas One Call System at the following numbers:

 Texas One Call, toll-free 1-800-245-4545

AT&T Communications	Entergy Distribution	CenterPoint Energy Entex	Spectrum	City of Beaumont	City of Beaumont
555 Main - Room 20760	North 11th/ Street	6090 College	602 N. Hwy 69	City Utilities	Public Works-Enginee
Beaumont, Texas 77701	Beaumont, Texas 77701	Beaumont, Texas 77707	Nederland, Texas 77627	Beaumont, Texas 77707	Beaumont, Texas 777
(409) 839-1666	(409) 785-2136	(409) 860-7111	(409) 720-5565	(409) 785-4720	(409) 880-3725
Ray Hillin	Brian Cross	Robert Young	Adam LaRive	Edward Brown	David Tingle

Inspections:

- 1. All inspections shall be performed by the City of Beaumont.
- 2. City of Beaumont will determine if night work or weekend work is allowed.

This action does not relieve the Contractor of the responsibilities under the terms of the contract or the plans and specifications. Damage caused by the Contractor's operations shall be repaired and restored to service in a timely manner at no expense to DD6.

- 6. The approximate location of the known underground utility installations is as shown on the plans. Confirm the location of these utility lines and the exact location of any others which may exist. Assume full responsibility for notifying the utility involved in case of conflict or damage and he/she shall be responsible for damage that occurs due to his/her negligence. Remove and dispose of abandoned lines encountered that interfere with the construction of this project. Consider this work to be subsidiary to the various bid items of the contract.
- 7. Allow DD6 & City forces to enter this project to accomplish such work as shown in the plans (by others) and as may be deemed necessary by the engineer.
- 8. Maintain for the duration of this project, those sections of existing and proposed travel ways and appurtenances which are to be constructed, or modified under this project. City forces will maintain the existing sections of roadway and its appurtenances not a part of this project. Any portion of roadway and its appurtenances damaged by the contractor's forces shall be repaired by the contractor at his/her expense.
- 9. Place all equipment and vehicles not in operation a minimum of 10 feet from the travel way unless protected behind positive barrier. All damages caused by the Contractor shall be repaired at his/her expense. Protect all areas of the right of way which are not included in the actual limits of the proposed construction areas from destruction. Restore any damaged areas to original or better condition. No payment will be made for this work.
- 10. Assume ownership for all designated waste material and dispose of it at a place off of the right of way, as approved by the engineer.
- 11. Take reasonable measures to avoid the death of any migratory birds, their young or their eggs.
- 12. Control the dust caused by construction operations. For sweeping the finished concrete pavement, use one of the following types of sweepers or equal:

Tricycle Type Truck Type -4 Wheel
Wayne Series 900 M-B Cruiser II
Elgin White Wing Wayne Model 945
Elgin Pelican Mobile TE-3
Mobile TE-4 Murphy 4042

- 13. The contractor shall be responsible for all maintenance of the travel way and appurtenances within the barricades for the duration of the project. Ingress and egress to adjacent property shall be maintained by the contractor at all times.
- 14. If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform this work. Costs associated with de-energizing the power lines or other protective measures required are at no expense to DD6. If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating to the type of work involved.
- 15. Material on hand will not be paid for.
- 16. Prior to final acceptance, all new and existing structures and extensions shall be cleaned and free of debris and dirt and all outfall channels unobstructed. This work will not be paid for directly but will be considered subsidiary to the various bid items.
- 17. Move existing signs, mailboxes, delineators and any other similar obstructions that interfere with construction to temporary locations approved by the engineer. Move them back to their permanent positions when the work progresses to the point where this is possible. Place the sign post back in accordance with the applicable standard sheets. This will not be paid for directly and will be considered subsidiary to various bid items.
- 18. Maintain adequate drainage throughout the limits of the project during all construction phases.
- 19. Verify material quantities and dimensions prior to ordering materials.
- 20. The Contractor will establish the project control point, points, or tangency, PI's (points of intersection), point of curvature (PC, PI, and PT) and bench marks at the beginning and end of the project on the plan view only. Contractor shall establish and maintain these points throughout construction. There will be no separate payment for this work, but it shall be considered subsidiary to various bid items.
- 21. When design details are not shown on the traffic control plans, provide signs and arrows conforming to the latest "Texas M.U.T.C.D." manual. The traffic control plan for the DD6 Project can be revised at DD6, However the Contractor must get an approved TCP from the City of Beaumont. This will not be paid for directly but shall be considered subsidiary to the various bid items.
- 22. All materials, labor and incidentals required for the contractor to provide for traffic across the streets and for temporary ingress and egress to private property shall be furnished by the contractor at no additional cost to DD6 and shall be considered as incidental to the various bid items in this project.
- 23. Expansion Joints to be placed at the end of each curve radius and at intervals not to exceed 30 feet on straight sections and should at minimum align to match existing construction joints.
- 24. Longitudinal Joints, construction Joints and Warp cuts shall be installed as shown on construction detail sheet and should at minimum match alignment of existing joints. Maximum spacing between joints not to exceed 30 feet.
- 25. Any saw-cutting required for the project shall not be paid for directly but shall be considered subsidiary to various bid items.
- 26. The Contractor will notify the Engineer 48 hours in advance of completed work per site. The Engineer will inspect each site and submit a punch list per location to the Contractor will not demobilize from site until the Engineer has approved all work including punch list items.

 End of General Notes

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PROJECT LOCATION	COUNTY	JEFFERSON	DITCH NO.	110
PRO	CITY	BEAUMONT	WATERSHED	100
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8TH STREET REPAIR PROJECT	ō	GENERAL NOIES & SPECIFICATIONS	WALLACE R. WILSON, P.E. No.84857 DATE	Walker K. Woom F. C. 04-12-2021
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Grant Requirement: Buy America

Specifications

Item 5: Control of Work

- 1. Station the project prior to commencing work. Mark the stations every 100 feet. Maintain stationing throughout the duration of the project. Remove the station markings at the completion of the project. Consider this work to be subsidiary to the various bid items of the contract. Item 7: Legal Relations and Responsibilities
- 1. Furnish all materials, labor and incidentals required to provide for traffic across the street and for temporary ingress and egress to private property. Consider this work to be subsidiary to the various bid items of the contract.

Item 8: Prosecution and Progress

- 1. Compute and charge calendar days in accordance with Article 8.3.1.4, "Standard Workweek" & Article 8.3.1.6, "Other". Monday through Friday with the option of working Saturdays when the Engineer is provided sufficient advance notice.
- 2. Gather information and direct attention to the aspects of adjoining projects that may be in the progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction projects so as not to interfere with, or hinder the completion of the work in progress on the adjoining projects. Coordinate projects to ensure an uninterrupted flow of traffic.

Item 9: Measurement and Payment

- 1. The Contractor shall submit all tickets, As-Built drawings and updated schedule with each pay request. As-Built for pay request will be the Plan sheet with qty's on each plan sheet.
- 2. DD6 will withhold a 3% retainage from each pay request.

Item 104: Removing Concrete

1. All concrete (sidewalks, driveways, slabs, pavement, etc.) will be saw cut full depth at the break back line. Saw cuts is not paid for directly but considered subsidiary to various bid items.

Item 110: Excavation

- 1. Remove all the material from the excavation and clean the construction route by the end of each working day. No excavation will be allowed prior to removing all the excavated materials from the previous working day. There will be no direct payment for hauling of excess excavated material, and shall be considered subsidiary to the Item 360 and Item 529.
- 2. If manipulating the excavated material requires moving the same material more than once to accomplish the desired results, the excavation is measured and paid for only once regardless of the number of manipulations required.

Item 310: Prime Coat and Blotter

- Prime coat can be AE-P or MC-30.
- 2. Prime coat will be placed at a rate of 0.2 gallons per square yard.

Item 340: Dense-Graded Hot Mix Asphalt (SQ)

- 1. Binder grade will be PG64-22.
- 2. Contractor to Provide Approved Design.
- 3. All testing is waved except Asphalt Content and Gradation.
- 4. Testing shall be one one truck per day or every 50 C.Y.
- 5. Testing will be paid for by the contractor and records given to DD6.

Item 360: Concrete Pavement

- Concrete will be Class-P.
- 2. Texture will be carpet drag.
- 3. The Contractor shall provide an approved concrete design.
- 4. All testing is waved except strength and slump.
- 5. Testing will be paid for by the contractor and records given to DD6.

Item 500: Mobilization

1. Mobilization shall not exceed ten (10) percent of the total construction items amount.

Item 502: Barricades, Signs, and Traffic Handling

- 1. Submit changes to the traffic control plan to the City of Beaumont.
- 2. Furnish and maintain the barricades and warning signs, including the necessary temporary and portable traffic control devices, during the various phases of construction. Place and construct these barricades and warning signs in accordance with the latest "Texas Manual on Uniform Traffic Control Devices for Streets and Highways" for typical construction layouts.
- 3. Furnish additional barricades and signs to maintain traffic and motorists' safety when directed by the Engineer. Consider payment for these additional signs and barricades subsidiary to Item 502.
- 4. Cover work zone signs when work related to the signs is not in progress, or when any hazard related to the signs no longer exists.
- 5. Keep the delineation devices, signs, and pavement markings clean. This work is subsidiary to the Item, "Barricades, Signs, and Traffic Handling".
- 6. Do not mount signs on drums or barricades, except those listed in the latest Barricades and Construction standard sheets.
- 7. Use traffic cones for daytime work only. Replace the cones with plastic drums during nighttime hours.
- 8. Place positive barriers to protect drop-off conditions greater than 2 ft. within the clear zone that remain overnight. The traffic control plan (TCP) shall conform to the BC (1)-(12) standards and part VI of the Current Texas Manual Of Uniform Traffic Control Devices.
- 9. Remove all traffic control devices from the roadway, off of the right of way, when they are not in use. Devices scheduled to be used within 3 days may be placed along the shoulder of the roadway or right of way when not in use, or stored in other approved areas on the project. Cover any construction signs that are not in effect that are installed in a fashion that will not allow them to be removed from the right of way easily. Construct all work zone signs, sign supports, and barricades from material other than wood unless approved by the engineer.
- 10. Plan the sequence of work so as to minimize inconvenience to the traveling public. Any changes to the traffic control plan shown in the plans must be approved in writing by the City of Beaumont. Submit the revised plan for approval to the City of Beaumont.
- 11. The Contractor shall submit an excel spreadsheet of streets and closure dates. Contact Antoinette Hardy, 72 hours in advance notice, with detours.
- 12. It is the responsibility of the Contractor to notify commercial businesses and residential citizens of work to be performed 48 hours in advance.
- 13. The approval by the engineer of the method and procedure the contractor plans to use to handle or detour traffic will not relieve the contractor of his responsibility for the protection of the traveling public.
- 14. Use drums or vertical panels instead of cones as traffic control devices.
- 15. Provide flaggers at each side-road intersection and ensure they have communication with the flaggers controlling the movement of traffic on the highway.

Item 529: Concrete Curb

- Concrete will be Class-A.
- Curb will be Type-II.
- 3. The Contractor shall provide an approved concrete design.
- 4. All testing is waved except strength and slump.
- 5. Testing will be paid for by the contractor and records given to DD6.

End of Specifications

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Grant Requirement: Buy America

		Estimate			
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Item No.	Description Code	Description	Unit	Estimated Quantity	Final Quantity
310	001	Prime Coat and Blotter	Gal	309	
340	001	Dense Graded Hotmix Asphalt (SQ) (TY D) (SAC B) (64-22)	Ton	128	
360	001	Concrete Pavement (Class-P/6")	SY	1,221	
500	001	Mobilizaton	LS	1	
529	001	Concrete Curb (Class-A/TY-II)	LF	1,031	
540	001	Erosion control	LS	1	
		Alternate Bid Items			
360	001	Concrete Pavement (Class-P/6")	SY	636	
529	001	Concrete Curb (Class-A/TY-II)	LF	404	

				Summary	of Quantities			
Loca	ation	Item 310-001 Prime Coat and Blotter (Gal)	Item 340-001 Dense Graded Hotmix Asphalt (Ton)	Item 360-001 Concrete Pavement (Class-P/6")(SY)	Item 440-001 Reinforcement for Concrete	Item 500-001 Mobilizaton (LS)	Item 529-001 Concrete Curb (Class-A/TY II) (LF)	Item 540-001 Erosion control (LS)
0+00	14+20				See G6	1		1
0+25	0+63	17	7					
0+63	1+18	32	13					
1+18	1+88			202			140	
1+88	2+30			61			42	
2+30	2+70			116			80	
2+70	4+75			296			410	
4+75	5+20			130			90	
5+20	7+05			267			185	
8+00	8+37	20	8					
8+37	13+78	241	100					
13+78	14+20			149			84	
To	tal	309	128	1,221		1	1,031	1

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		Summary of Co	ncrete Pavement			
Station	to Station	Length (FT)	Width (FT)	Depth (IN)	Area (SY)	Volume (CY)
1+18	1+88	70	26	6	202	34
1+88	2+30	42	13	6	61	10
2+30	2+70	40	26	6	116	19
2+70	4+75	205	13	6	296	49
4+75	5+20	45	26	6	130	22
5+20	7+05	185	13	6	267	45
13+78	14+20	42	32	6	149	25
				Total	1,221	204

	Summary	of Concrete Curb		
Station t	o Station	Sta. Length (FT)	Left/Right	Length (FT)
1+18	1+88	70	Lt/Rt	140
1+88	2+30	42	Lt	42
2+30	4+75	245	Lt/Rt	490
4+75	5+20	45	Lt/Rt	90
5+20	7+05	185	Lt	185
13+78	14+20	42	Lt/Rt	84
			Total	1,031

		Summary of Joint Seal	
Station t	to Station	Longitudinal Joint Length (FT)	Lateral Joints (FT)
1+18	7+05	587	913
Joint S	Seal is not paid for	directly and shall be considered subsidia	ry to Item -360.

			Summ	ary of R	einforcement		
Bar	Size	Weight (Lbs/Ft)	Length (L.F.)	Qty.	Total (L.F.)	Total Weight (Lbs)	Units
A1	No. 4	0.668	60.00	1540	9,240	6,172	
A2	No. 4	0.668	45.00	C 14	630	421	
A3	No. 4	0.668	40.00	14	560	374	
A4	No. 4	0.668	12.23	756	9,321	6,227	
A5-Dowel Bar	1-1/8"	3.4	27.83	224	410	1,394	
A6-Tie Bar	No. 5	1.043	e111 1.72	1,174	2,019	2,106	
A7	No. 5	1.043	60.00	18	1,080	1,126	
A8-Curb Dowel	No. 3	0.376	1.83	294	538	202	
		*Craint			Reinforcing Steel	18,023	LB
		0		(Concrete (Class-P)	204	CY
				(Concrete (Class-A)	10	CY
		Reinforcement	is not paid for dire	ctly and sl	nall be considered st	ubsidiary to Item -360.	•

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Grant Requirement: Buy America

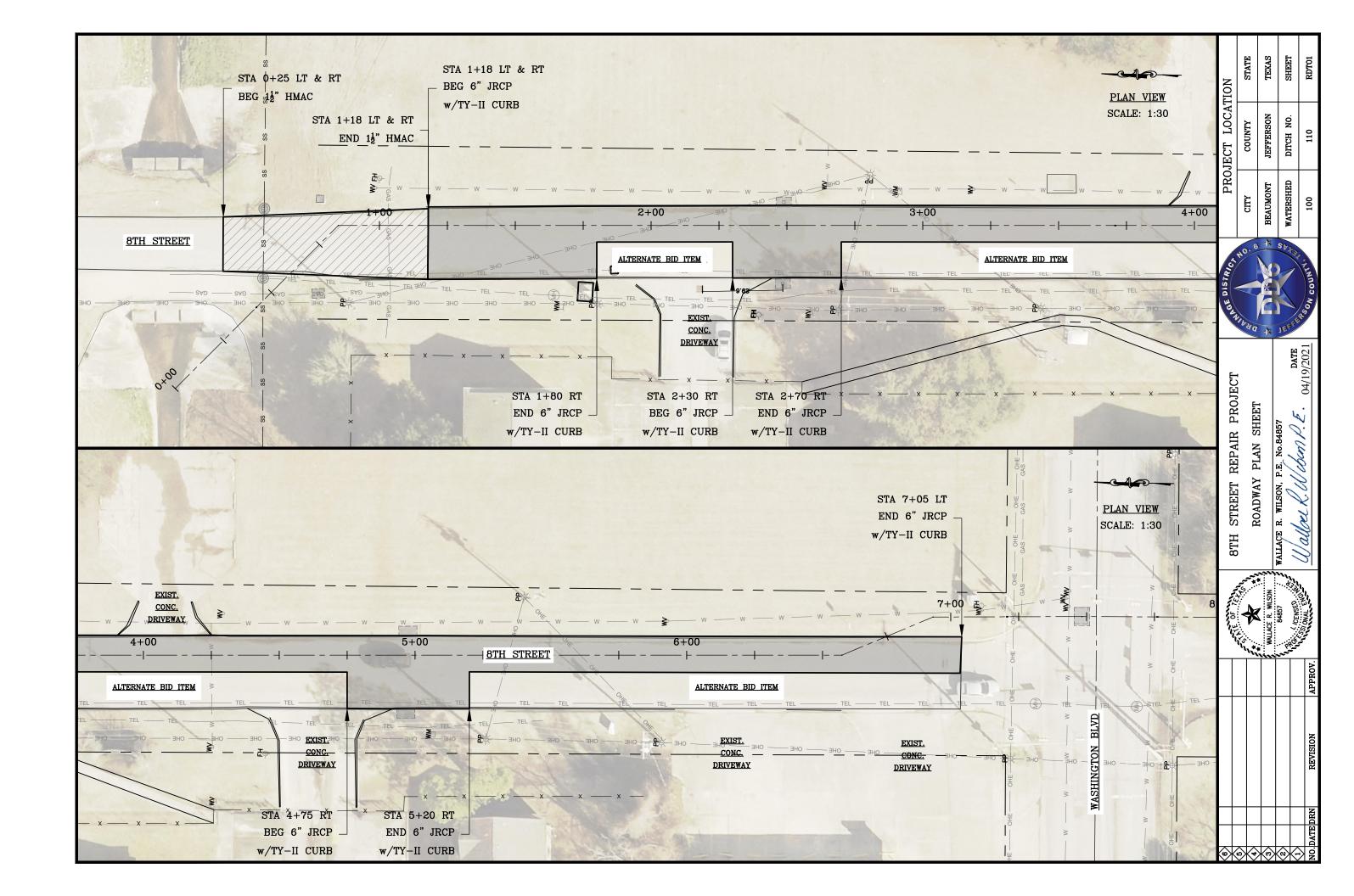
Basis of Estimate									
Item No. Description Rate Units No. Units Quantity Units									
310	Prime Coat & Blotter	0.2	Gal/SY	1,544	309	Gal			
340	(1.5") HMAC	166	Lb/SY	1,544	128	Ton			

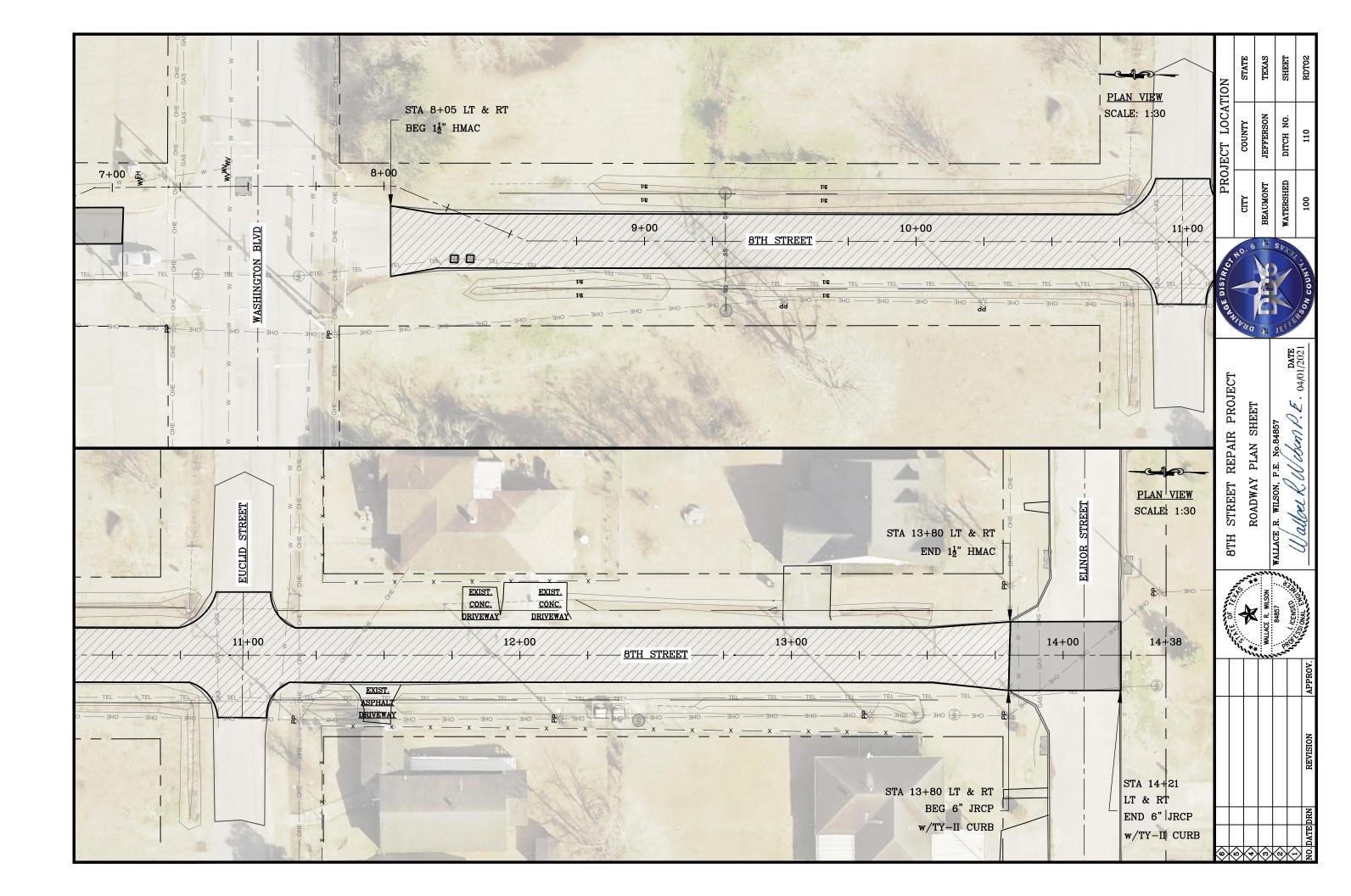
Summary of HMAC									
Station to Station		Length (FT)	Width (FT)	Depth (IN)	Area (SY)	Volume (CY)			
0+25	0+63	38	20	1.5	84	4			
0+63	1+18	55	26	1.5	159	7			
8+00	8+37	37	24	1.5	99	4			
8+37	13+78	541	20	1.5	1,202	50			
	1,544	64							

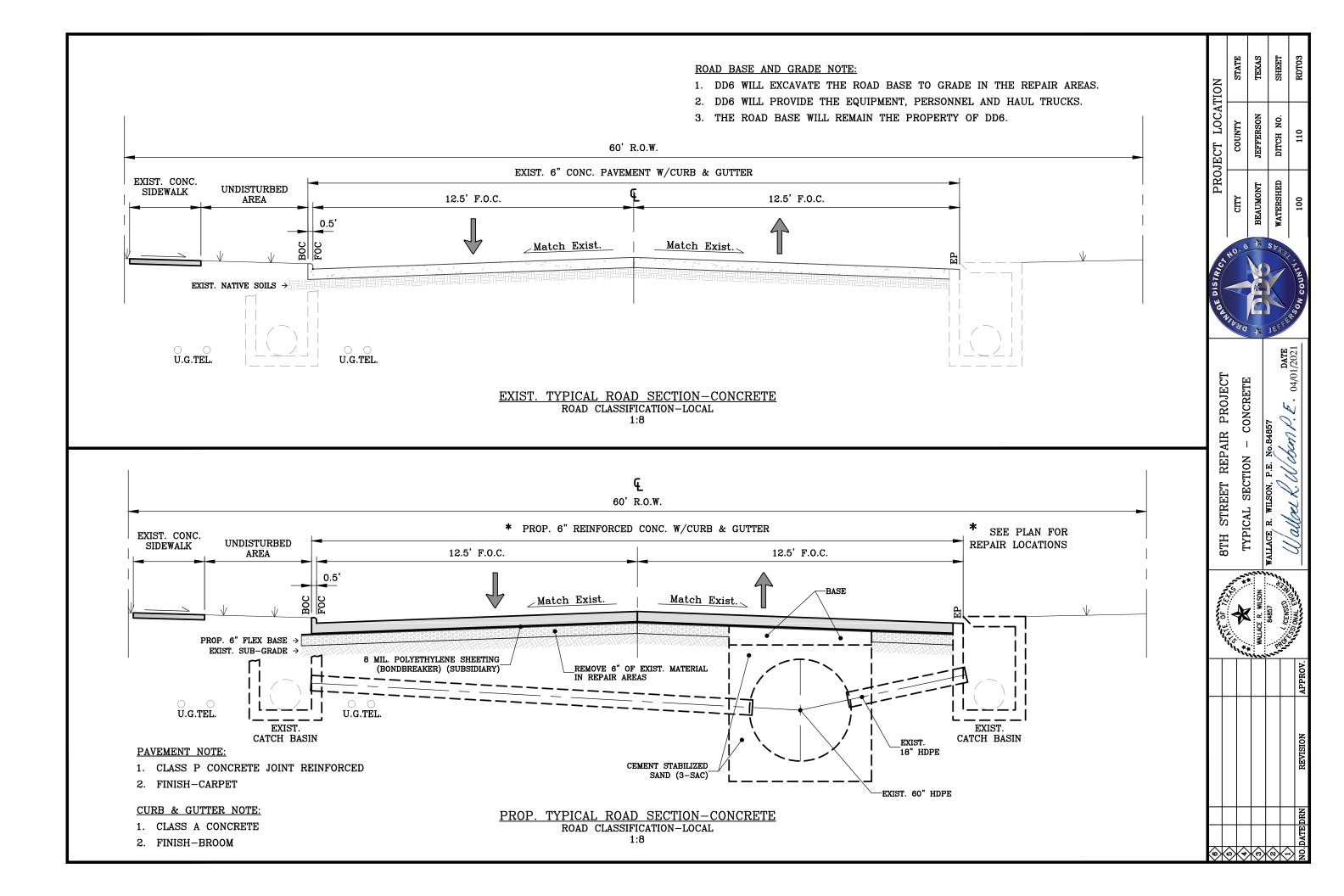
Station to	Station	Length (ft)	Width (ft)	Area (sy)
0+25	0+63	38	20	84
0+63	1+18	55	26	159
8+00	8+37	37	24	99
8+37	13+78	541	20	1,202
			Total	1,544

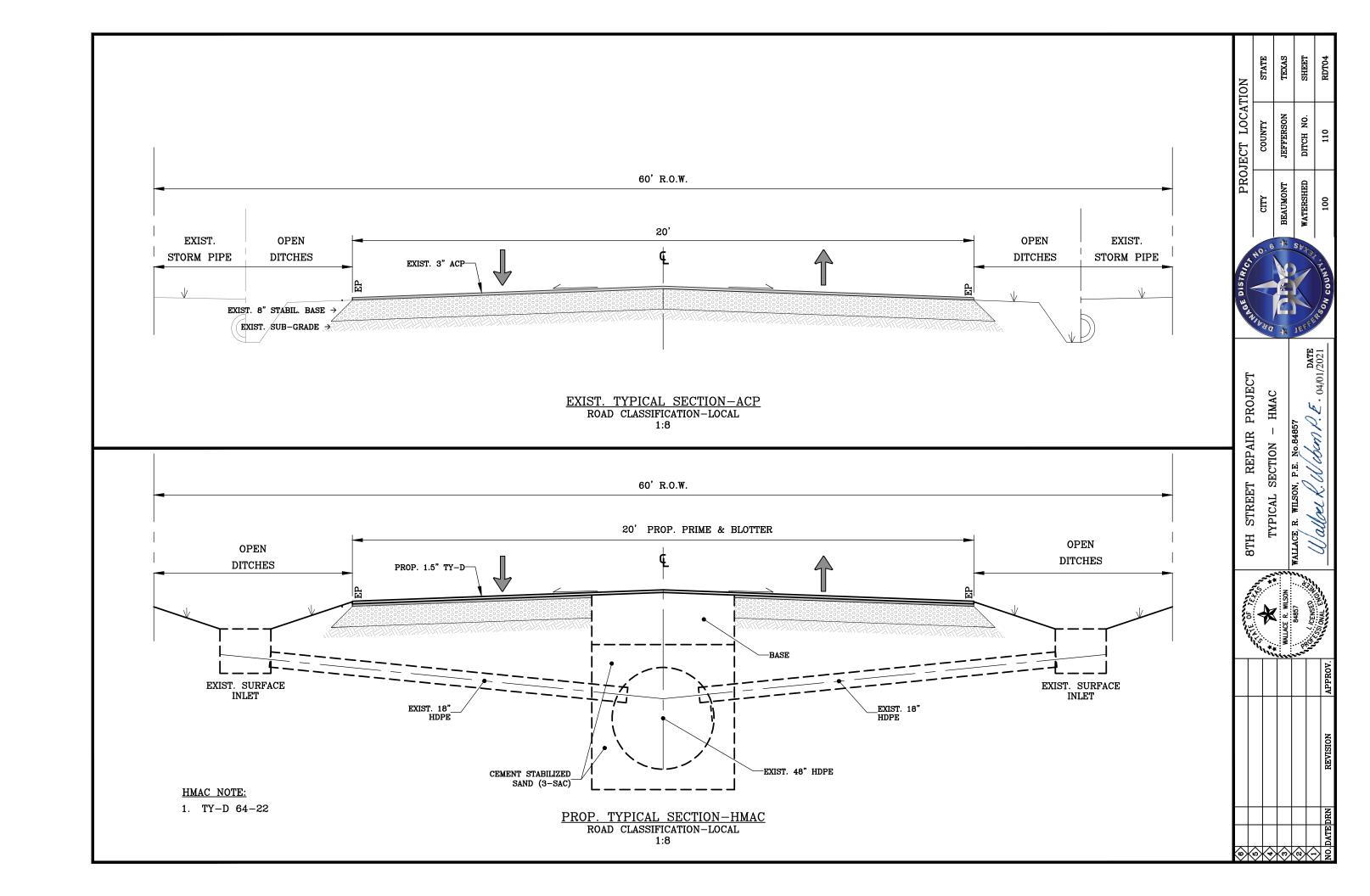
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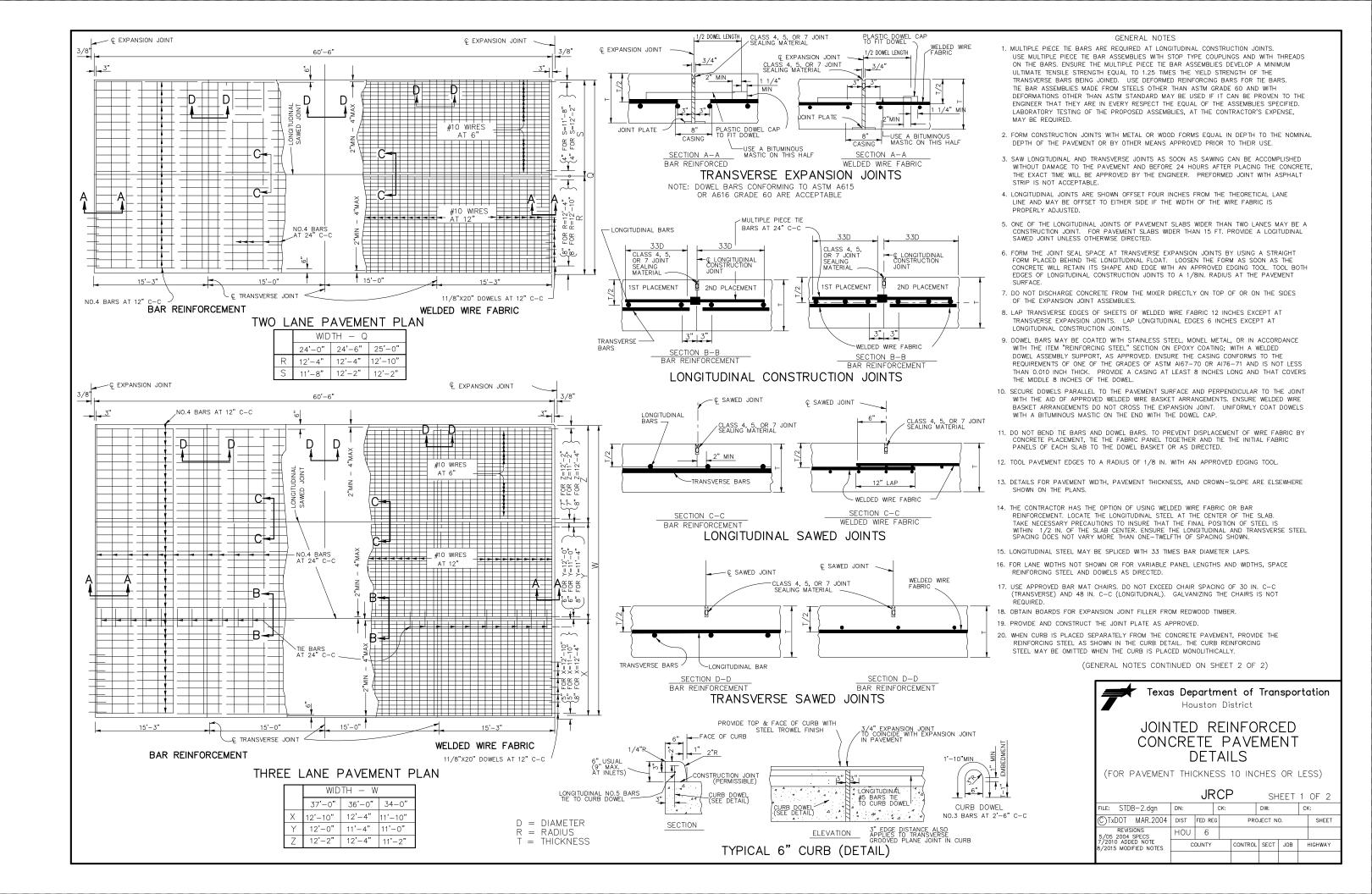
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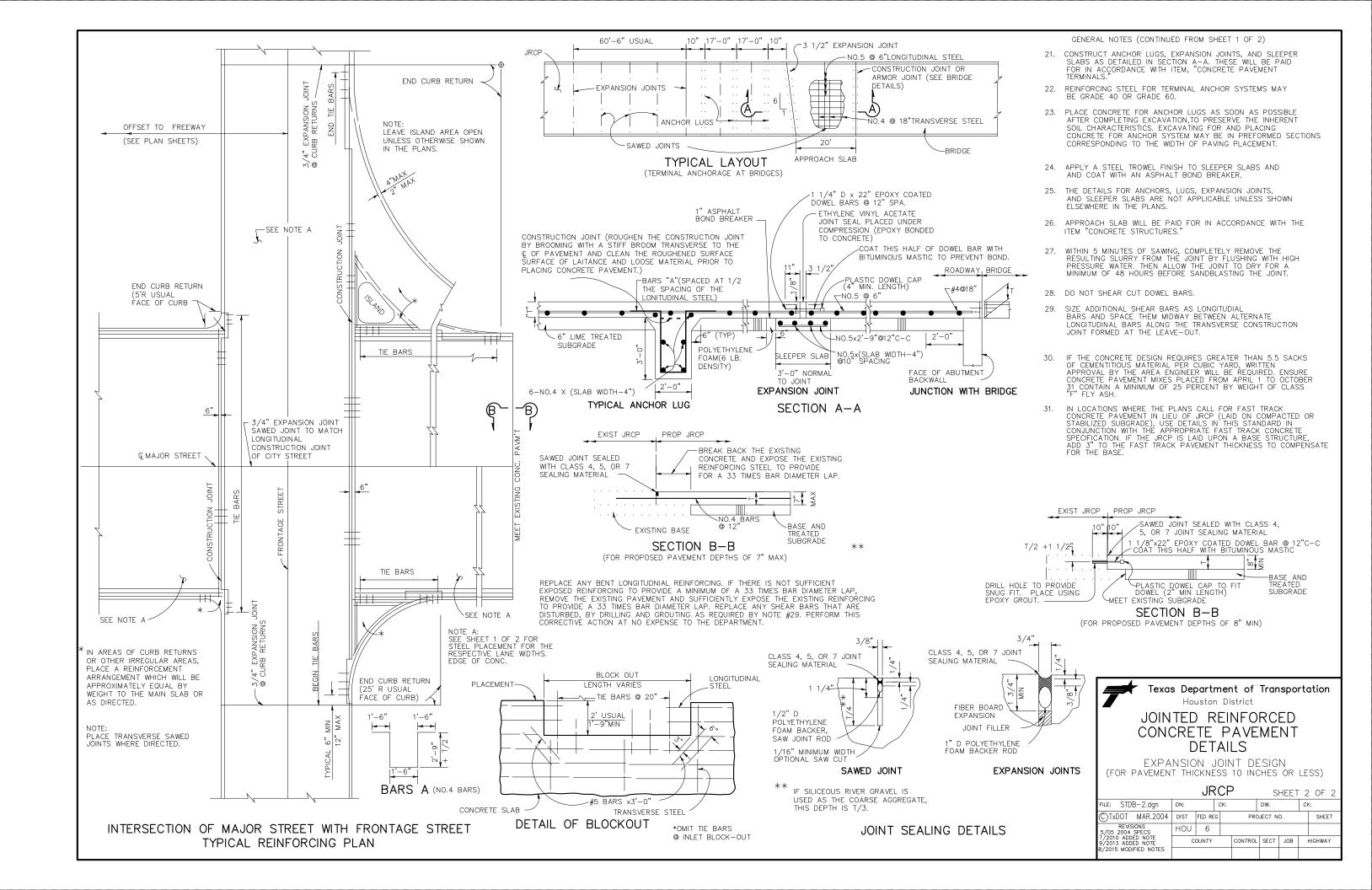




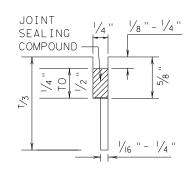


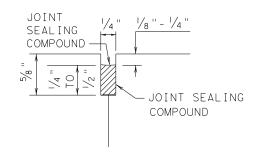


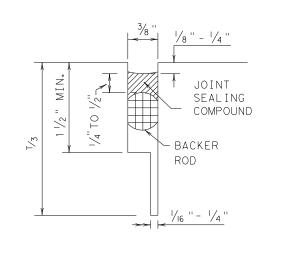


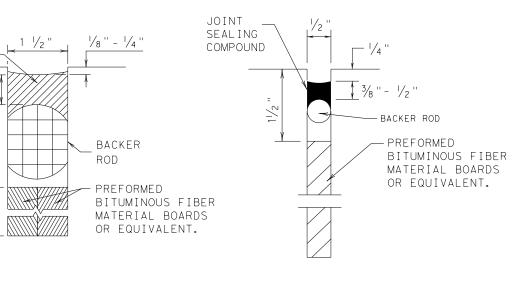


METHOD B: JOINT SEALING COMPOUND









LONGITUDINAL SAWED CONTRACTION JOINT

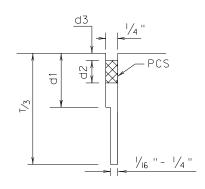
LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT

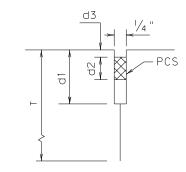
TRANSVERSE SAWED CONTRACTION JOINT

TRANSVERSE FORMED EXPANSION JOINT

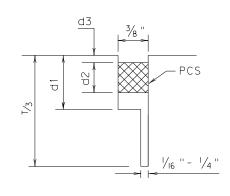
FORMED ISOLATION JOINT

METHOD A: PREFORMED COMPRESSION SEALS (PCS) (DMS-6310 CLASS 6)



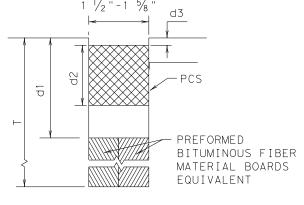


LONGITUDINAL CONSTRUCTION JOINT



LONGITUDINAL SAWED

CONTRACTION JOINT



TRANSVERSE SAWED CONTRACTION JOINT

TRANSVERSE FORMED EXPANSION JOINT

JOINT

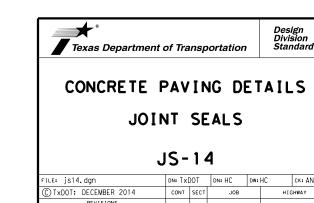
SEALING

COMPOUND:

- 1. UNLESS OTHERWISE SHOWN IN THE PLANS, EITHER METHOD "A" OR METHOD "B" MAY BE USED.
- 2. THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
- 3. THE JOINT RESERVOIR FOR SEALANT OR PCS SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION JOINTS AND THE SAWED JOINTS.

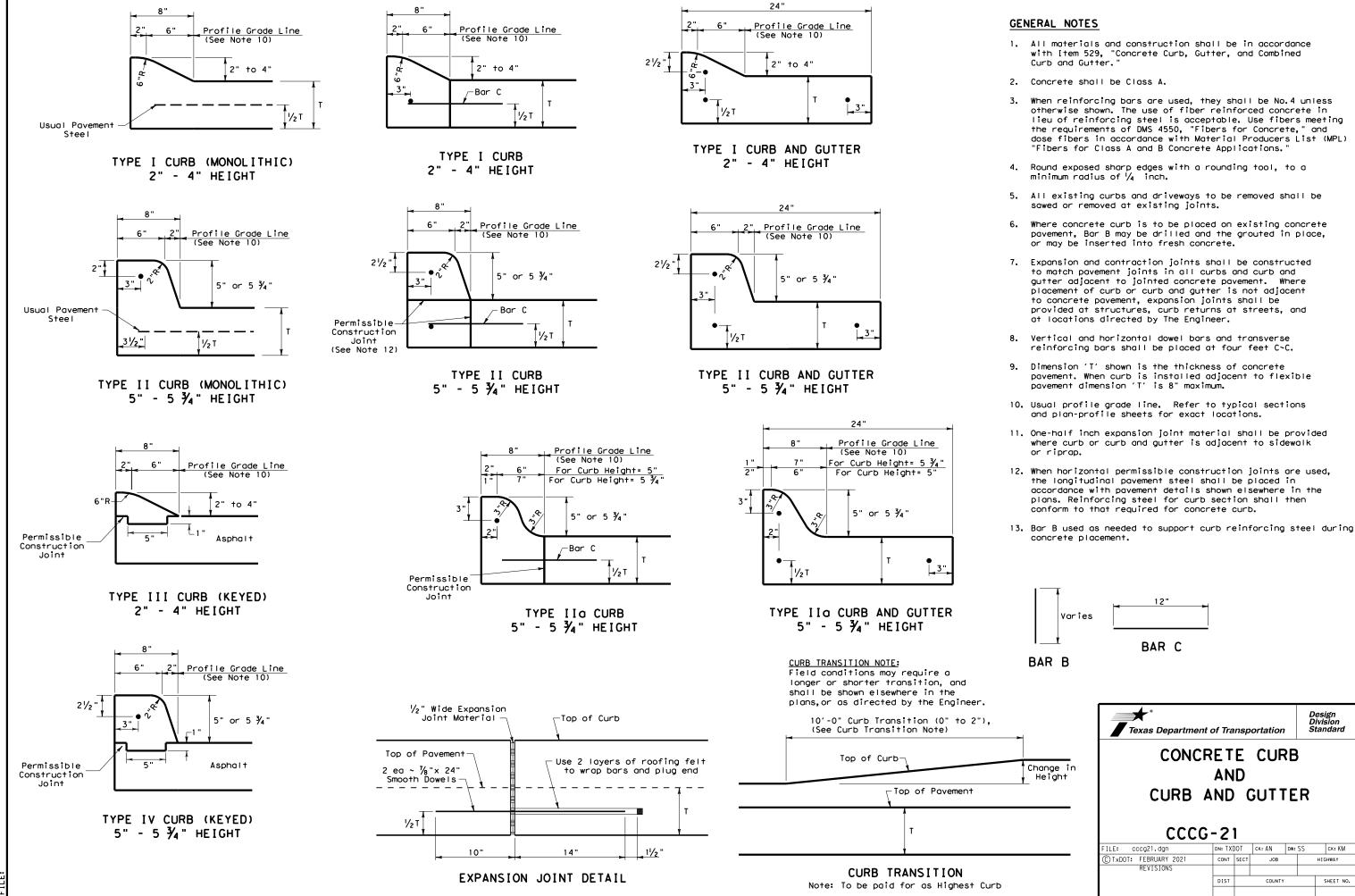
GENERAL NOTES

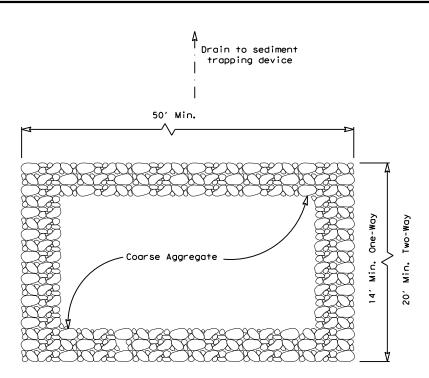
- 4. DIMENSIONS d1, d2, AND d3 SHOWN IN METHOD A SHALL BE IN ACCORDANCE WITH THE PREFORMED COMPRESSION SEAL MANUFACTURER'S RECOMMENDATION.
- 5. REFER TO DMS-6310 "JOINT SEALANTS AND FILLERS" FOR THE CLASSIFICATIONS.
- 6. FOR SAWED LONGITUDINAL JOINT, LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT, USE JOINT SEALANT CLASS 5 OR 8 UNLESS OTHERWISE SHOWN ON THE PLAN OR APPROVED.
- 7. FOR TRANSVERSE SAWED CONTRACTION, TRANSVERSE FORMED EXPANSION JOINT, AND ISOLATION JOINT USE JOINT SEALANT CLASS 5 OR 8 AT NEW JOINTS. USE JOINT SEALANT CLASS 4,5,7,OR 8 FOR MAINTAINING EXISTING JOINTS.
- 8. THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE ITEM 438 "CLEANING AND SEALING JOINTS" OR ITEM 713 "CLEANING AND SEALING JOINTS AND CRACKS (CONCRETE PAVEMENT)".
- 9. ISOLATION JOINTS ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENTS THAT OCCUR BETWEEN A PAVEMENT AND A STRUCTURE. ISOLATION JOINTS MAY BE USED FOR BRIDGE ABUTMENTS, INTERSECTIONS, CURB AND GUTTER, OLD AND NEW PAVEMENTS, OR AROUND DRAINAGE INLETS, MANHOLES, FOOTINGS AND LIGHTING STRUCTURES.



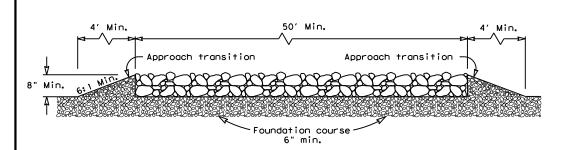
SHEET NO.

ATE:





PLAN VIEW



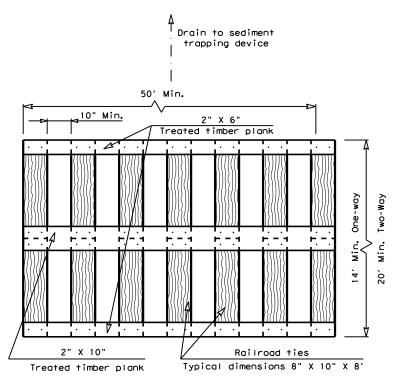
ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 1)

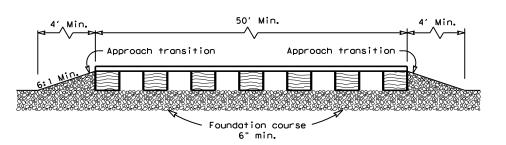
ROCK CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 1)

- 1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
- 2. The coarse aggregate should be open graded with a size of 4" to 8".
- The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
- 4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other materialas approved
- 5. The construction exit shall be graded to allow drainage to a sediment
- 6. The guidelines shown hereon are suggestions only and may be modified
- 7. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.



PLAN VIEW



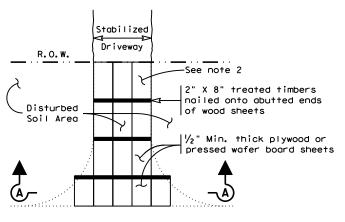
ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 2)

TIMBER CONSTRUCTION (LONG TERM)

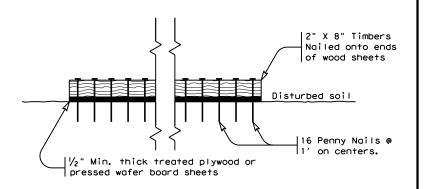
GENERAL NOTES (TYPE 2)

- The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
- The treated timber planks shall be attached to the railroad ties with $\frac{1}{2}$ "x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
- The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
- The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
- 5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
- The construction exit should be graded to allow drainage to a sediment trapping device.
- The guidelines shown hereon are suggestions only and may be modified by the Engineer.
- Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the



Paved Roadway

PLAN VIEW



SECTION A-A

CONSTRUCTION EXIT (TYPE 3) SHORT TERM

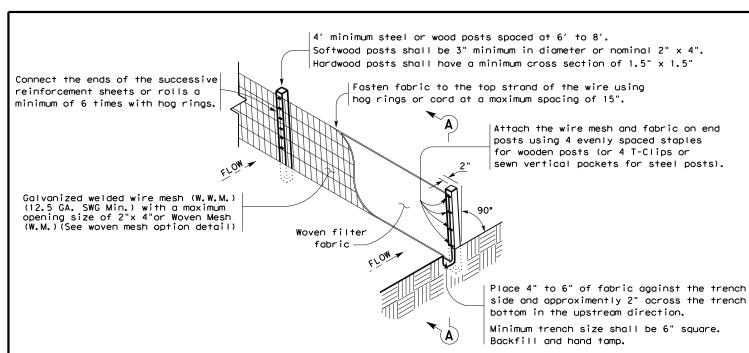
GENERAL NOTES (TYPE 3)

- 1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
- 2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
- 3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
- 4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



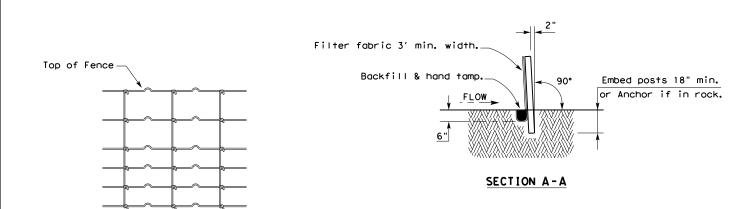
TEMPORARY EROSION. SEDIMENT AND WATER POLLUTION CONTROL MEASURES CONSTRUCTION EXITS

EC(3) - 16DN: TxDOT CK: KM DW: VP CTxDOT: JULY 2016 JOB **\$C\$ \$S\$ \$J\$** \$HWY\$



TEMPORARY SEDIMENT CONTROL FENCE





HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

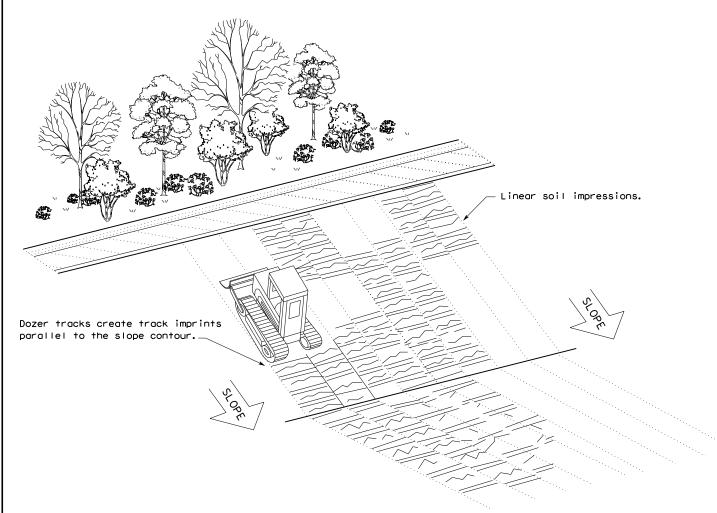
Sediment control fence should be sized to filter a maximum flow through rate of 100 ${\sf GPM/FT}^2$. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

LEGEND

Sediment Control Fence

GENERAL NOTES

- Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
- 2. Perform vertical tracking on slopes to temporarily stabilize soil.
- 3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
- 4. Do not exceed 12" between track impressions.
- 5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING



Design Division Standard

TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES
FENCE & VERTICAL TRACKING

EC(1)-16

FILE: ec116	DN: TxDOT CK: KM		DW:	۷P	DN/CK: LS	
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REVISIONS						
	DIST	IST COUNTY			SHEET NO.	

TEMP. EROSION FLOW CONTROL LOG ADDITIONAL UPSTREAM STAKES FOR HEAVY RUNOFF EVENTS SECURE END. OF LOG TO STAKE LOG ON DOWNHILL STAKE AS SIDE AT THE CENTER, DIRECTED AT EACH END, AND AT ADDITIONAL POINTS AS NEEDED TO SECURE LOG (4' MAX. SPACING). OR AS DIRECTED BY THE ENGINEER.

PLAN VIEW

MIN.

TEMP. EROSION-

CONTROL LOG

(TYP.)

COMPOST CRADLE

UNDER EROSION

CONTROL LOG

STAKE LOG ON DOWNHILL SIDE AT THE CENTER,

ADDITIONAL POINTS AS

NEEDED TO SECURE LOG

(4' MAX. SPACING), OR

ADDITIONAL UPSTREAM

STAKES FOR HEAVY

RUNOFF EVENTS

R. O. W.

AT EACH END, AND AT

AS DIRECTED BY THE

ENGINEER.

FLOW ADDITIONAL UPSTREAM STAKES FOR HEAVY RUNOFF EVENTS SECURE END OF LOG TO STAKE AS DISTURBED AREA DIRECTED BACK OF CURB LIP OF GUTTER STAKE ON DOWNHILL SIDE OF LOG AT 8' (ON CENTER) MAX. TEMP. EROSION AS NEEDED TO SECURE LOG, CONTROL LOG OR AS DIRECTED BY THE ENGINEER.

PLAN VIEW

- TEMP. EROSION

COMPOST CRADLE

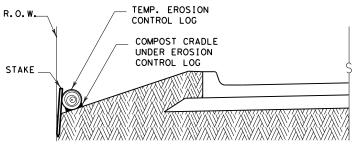
UNDER EROSION

CONTROL LOG

CONTROL LOG

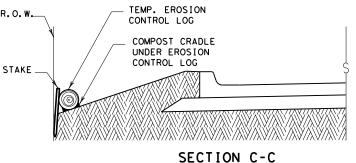
STAKE

STAKE ON DOWNHILL SIDE OF LOG AT 8' (ON CENTER) MAX. AS NEEDED TO SECURE LOG, (TYP.) OR AS DIRECTED BY THE ENGINEER. R. O. W. TEMPORARY EROSION CONTROL LOG FLOW -DISTURBED AREA SECURE END BACK OF CURB OF LOG TO STAKE AS DIRECTED LIP OF GUTTER ADDITIONAL UPSTREAM STAKES FOR HEAVY RUNOFF EVENTS



CL-ROW

PLAN VIEW



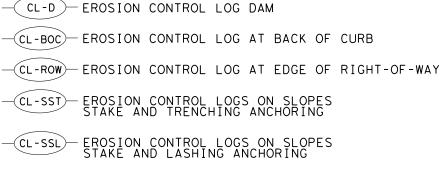
EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY

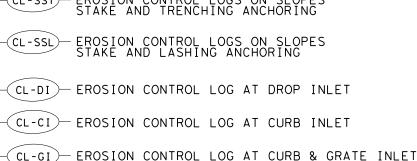


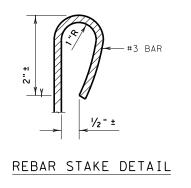
SECTION A-A **EROSION CONTROL LOG DAM**



LEGEND







SECTION B-B

EROSION CONTROL LOG AT BACK OF CURB

(CL-BOC)

SEDIMENT BASIN & TRAP USAGE GUIDELINES

An erosion control log sediment trap may be used to filter sediment out of runoff draining from an unstabilized area.

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

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
- 4. Just before the drainage leaves the right of way
- limits where drainage flows away from the project.

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

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

DIAMETER MEASUREMENTS OF EROSION

CONTROL LOGS SPECIFIED IN PLANS

SHEET 1 OF 3

GENERAL NOTES:

1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANFACTURER'S

2. LENGTHS OF EROSION CONTROL LOGS SHALL

UNLESS OTHERWISE DIRECTED. USE

BIODEGRADABLE OR PHOTODEGRADABLE

USE RECYCLABLE CONTAINMENT MESH.

STAKES SHALL BE 2" X 2" WOOD OR

SIZE TO HOLD LOGS IN PLACE.

10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL

LOG FROM FOLDING IN ON ITSELF.

THE PURPOSE INTENDED.

ENGINEER.

DEFORMATION.

THE ENGINEER.

MESH.

MINIMUM COMPACTED

DIAMETER

RECOMMENDATIONS, OR AS DIRECTED BY THE

BE IN ACCORDANCE WITH MANUFACTURER'S

RECOMMENDATIONS AND AS REQUIRED FOR

CONTAINMENT MESH ONLY WHERE LOG WILL

SYSTEM. FOR TEMPORARY INSTALLATIONS,

REMAIN IN PLACE AS PART OF A VEGETATIVE

FILL LOGS WITH SUFFICIENT FILTER MATERIAL

SPECIFIED IN THE PLANS WITHOUT EXCESSIVE

#3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT

2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY

6. DO NOT PLACE STAKES THROUGH CONTAINMENT

COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.

SANDBAGS USED AS ANCHORS SHALL BE PLACED

ON TOP OF LOGS & SHALL BE OF SUFFICIENT

TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE

TO PREVENT RUNOFF FROM FLOWING AROUND THE

UPSTREAM STAKES MAY BE NECESSARY TO KEEP

TO ACHIEVE THE MINIMUM COMPACTED DIAMETER

Texas Department of Transportation

COMPACTED DIAMETER

TEMPORARY EROSION. SEDIMENT AND WATER POLLUTION CONTROL MEASURES

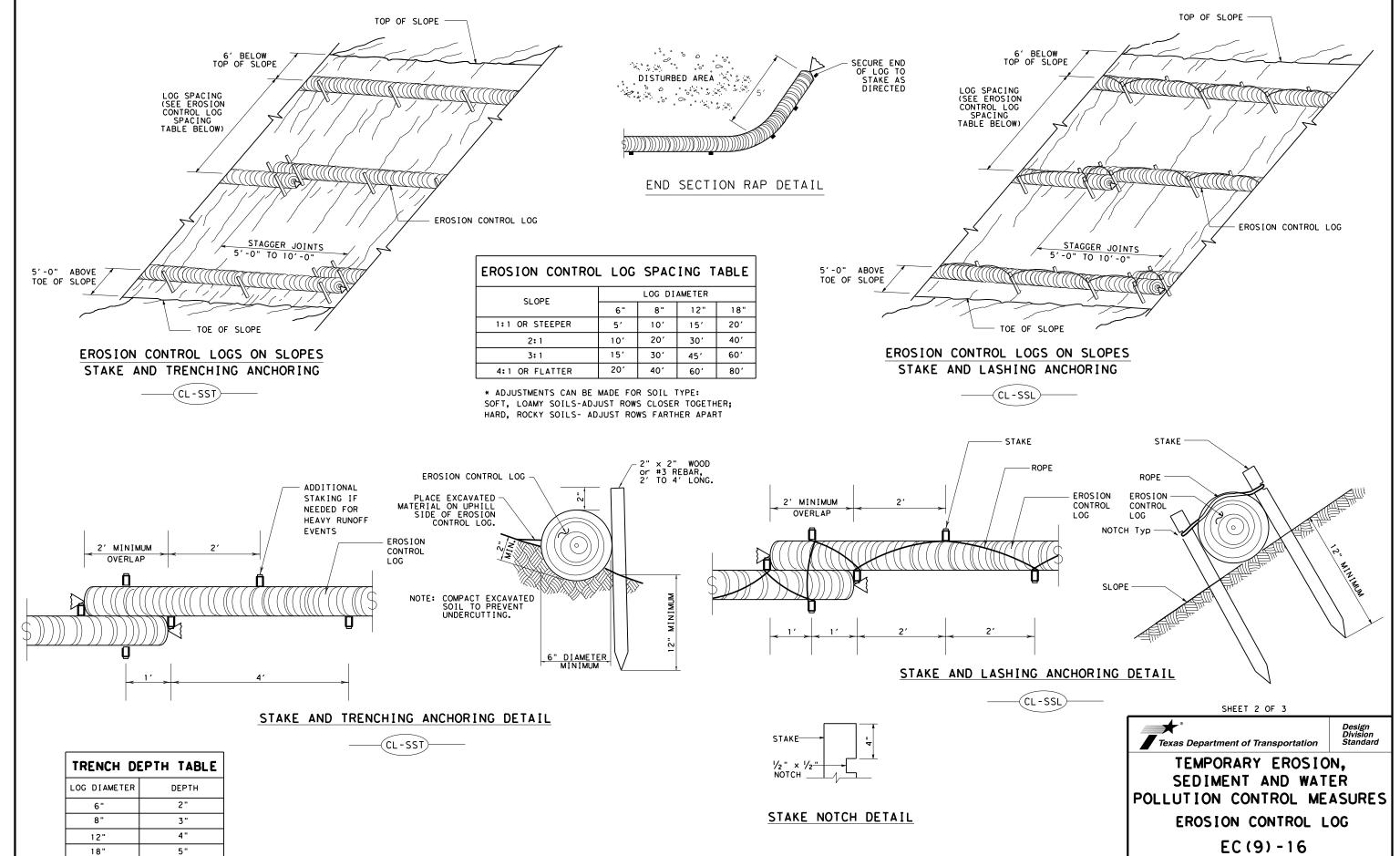
> **EROSION CONTROL LOG** EC(9) - 16

DN: TxDOT CK: KM DW: LS/PT CK: LS TxDOT: JULY 2016 CONT SECT JOB DIST SHEET NO.

the drainage area).

- 3. Just before the drainage enters a water course
- 5. Just before the drainage leaves the construction





DN:TxDOT CK: KM DW: LS/PT CK: LS

SHEET NO.

JOB

CONT SECT

DIST

TILE: ec116 C) TxDOT: JULY 2016 SECURE END OF LOG TO STAKE AS DIRECTED

TEMP. EROSION CONTROL LOG

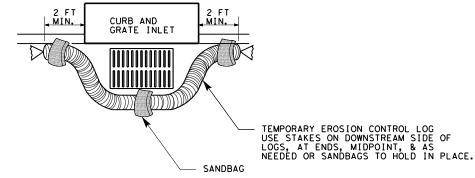
FLOW

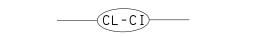
(CL - G I)-

EROSION CONTROL LOG AT DROP INLET

(CL-DÌ

EROSION CONTROL LOG AT CURB & GRADE INLET



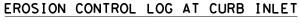


EROSION CONTROL LOG AT CURB INLET

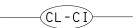
CURB

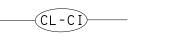
TEMP. EROSION CONTROL LOG

SANDBAG



- 2 SAND BAGS







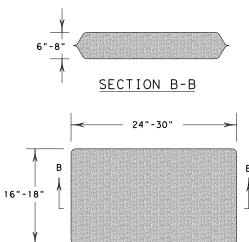
6" CURB-

ROADWAY

2 SAND BAGS

TEMP. EROSION CONTROL LOG

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.



SANDBAG DETAIL

USE STAKES ON DOWNSTREAM SIDE OF LOGS, AT ENDS, MIDPOINT, & AS NEEDED OR SANDBAGS TO HOLD IN PLACE.

Texas Department of Transportation TEMPORARY EROSION. SEDIMENT AND WATER

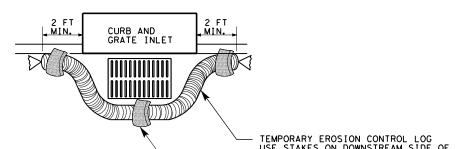
SHEET 3 OF 3

CURB INLET _INLET EXTENSION

POLLUTION CONTROL MEASURES **EROSION CONTROL LOG**

EC(9) - 16

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TxDOT: JULY 2016	CONT	SECT	JOB		HIGHWAY	
REVISIONS						
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OVERLAP ENDS TIGHTLY 24" MINIMUM

COMPLETELY SURROUND
DRAINAGE ACCESS TO
AREA DRAIN INLETS WITH
EROSION CONTROL LOG

- FLOW

-STAKE OR USE SANDBAGS ON DOWNHILL SIDE OF LOG AS NEEDED TO HOLD IN PLACE (TYPICAL)