

AGENDA PLACEMENT FORM

(Submission Deadline – Monday, 5:00 PM before Regular Court Meetings)

Date: January 31, 2025
Meeting Date: February 10, 2025
Submitted By: Julie Edmiston
Department: Public Works
Signature of Elected Official/Department Head: _____

Court Decision: <small>This section to be completed by County Judge's Office</small>
 <div style="margin-top: 10px; color: red; font-weight: bold;">2-10-25</div>

Description:

Consideration to approve an agreement titled "Participation For County Road Expansion" between Johnson County and Lennar Homes of Texas Land & Construction, LTD. (for Wright Farms/Frontier) to contract for the construction of certain road improvements such as widening existing County Road 904 for approximately .5 miles adjacent to the Wright Farms/Frontier Phases 1A and 1B Development, installing a storm drain system, and replacing signage on County Road 904 with a cost of materials and labor valued at \$2,107,089.00. Located in Precinct 1.

(May attach additional sheets if necessary)

Person to Present: Jennifer VanderLaan

(Presenter must be present for the item unless the item is on the Consent Agenda)

Supporting Documentation: (check one) ☒ PUBLIC ☐ CONFIDENTIAL

(PUBLIC documentation may be made available to the public prior to the Meeting)

Estimated Length of Presentation: 10 minutes

Session Requested: (check one)

☒ Action Item ☐ Consent ☐ Workshop ☐ Executive ☐ Other _____

Check All Departments That Have Been Notified:

☒ County Attorney ☐ IT ☐ Purchasing ☐ Auditor
☐ Personnel ☒ Public Works ☐ Facilities Management

Other Department/Official (list) Engineering

**Please List All External Persons Who Need a Copy of Signed Documents
In Your Submission Email**

PARTICIPATION FOR COUNTY ROAD EXPANSION

KNOW ALL MEN BY THESE PRESENTS:

Comes now Lennar Homes of Texas Land & Construction, LTD., hereafter known as "Participant" and Johnson County, Texas, hereafter known as "Johnson County".

Whereas Participant is extensively utilizing the roads of Johnson County, Texas for the economic benefit of Participant; and

Whereas Participant is developing property in Johnson County Texas that requires certain road characteristics including widening existing County Road 904 for approximately .5 miles adjacent to the Wright Farms/Frontier Phases 1A and 1B Development, installing a storm drain system, and replacing signage on County Road 904 in Johnson County, Texas; and

Whereas Johnson County is a political subdivision of the State of Texas which maintains certain roads within Johnson County; and

Whereas Johnson County has limited resources for the expansion and improvements of such roads; and

Whereas Johnson County is authorized to act and does act as shown by signature below, by and through the Commissioners Court of Johnson County, pursuant to V.T.C.A., Local Government Code Section 81.032 and V.T.C.A., Transportation Code Section 252.214 to accept the materials and labor provided by way of Lennar Homes of Texas Land & Construction, LTD., contracting for the construction of certain road improvements such as widening existing County Road 904 for approximately .5 miles adjacent to the Wright Farms/Frontier Phases 1A and 1B Development, installing a storm drain system, and replacing signage on County Road 904 in Johnson County, Texas.

THEREFORE:

Lennar Homes of Texas Land & Construction, LTD. will contract with a Construction Company approved by the Commissioner of Precinct No. 1, Rick Bailey, to widen existing County Road 904 for approximately .5 miles adjacent to the Wright Farms/Frontier Phases 1A and 1B Development, installing a storm drain system, and replacing signage on County Road 904 in Precinct Number 1 of Johnson County, Texas as shown in the attached Exhibit A.

The above-described action, subsequent to being offered, is subject to acceptance and approval by the Commissioners Court of Johnson County in an open session of the Commissioners Court of Johnson County.

Participant, by executing this Participation for County Road Expansion agrees and understands that this document contains all terms of the transfer of construction services and materials or payment of funds to a Construction Company for the purpose of building turn lanes as described.

Participant understands this is a memorialization of Participants action to provide for the expansion and improvement of a portion of a County Road and this is not a contract.

Lennar Homes of Texas Land & Construction, LTD.

Jennifer Eller
Printed Name of Participant's Authorized Agent

Jennifer Eller
Signature of Participant
or Participant's Authorized Agent

Date: 02/03/2025

Approved and Accepted by:
Commissioners Court

Date: 2-10-25

Christopher Boedeker
Christopher Boedeker, Johnson County Judge
Voted: yes, no, abstained

Rick Bailey
Rick Bailey, Comm. Pct. #1
Voted: yes, no, abstained

Kenny Howell
Kenny Howell, Comm. Pct. #2
Voted: yes, no, abstained

Mike White
Mike White, Comm. Pct. #3
Voted: yes, no, abstained

Larry Woolley
Larry Woolley, Comm. Pct. #4
Voted: yes, no, abstained

ATTEST: April Long
April Long, County Clerk



WRIGHT FARMS - CR 904
PAVING BID FORM

Item Number	Item Description	Unit	Approx. Quantity	Unit Price	Total Amount
Phase 1A CR904 Paving Items					
1	Demo Existing Asphalt Pavement	Square Yard	4,390	\$ 11.00	\$ 48,290.00
2	Demo Existing Barbed-Wire Fence	Linear Foot	1,827	\$ 3.00	\$ 5,481.00
3	Demo and Relocate Existing Barbed-Wire Fence	Linear Foot	148	\$ 12.00	\$ 1,776.00
4	Demo and Relocated Existing Fence Gate	Each	1	\$ 2,100.00	\$ 2,100.00
5	Demo Existing Asphalt Driveway	Square Yard	303	\$ 13.00	\$ 3,939.00
6	Relocate Existing Signs	Each	3	\$ 900.00	\$ 2,700.00
7	Site/Right-of-Way Prep	Acres	3	\$ 13,000.00	\$ 40,300.00
8	Grading Improvements	Lump Sum	1	\$ 90,000.00	\$ 90,000.00
9	8-Inch Thick Reinforced 3,600 psi Concrete Street Pavement w/ 6-Inch Standard Curb	Square Yard	3,457	\$ 73.00	\$ 252,361.00
10	8-Inch Thick Reinforced 3,600 psi Concrete Street Pavement w/o 6-Inch Standard Curb	Square Yard	1,540	\$ 73.00	\$ 112,420.00
11	10-Inch Lime-Stabilized Subgrade(Permanent)	Square Yard	5,410	\$ 5.00	\$ 27,050.00
12	Full Depth Saw Cut	Linear Foot	25	\$ 9.00	\$ 225.00
13	Connect to Existing Asphalt Pavement	Each	1	\$ 900.00	\$ 900.00
14	Connect to Existing Concrete Pavement	Each	1	\$ 1,200.00	\$ 1,200.00
15	3.5-Inch Thick Type 'D' HMAC (Surface)	Square Yard	485	\$ 85.00	\$ 41,225.00
16	12-Inch Thick Flexible Base, Type A, GR-1-2	Square Yard	535	\$ 50.00	\$ 26,750.00
17	10-Inch Thick Lime Stabilized Subgrade(Temporary Asphalt Transition)	Square Yard	535	\$ 5.00	\$ 2,675.00
18	Lime (45 lb/sy)	Ton	125	\$ 410.00	\$ 51,250.00
19	Extend Existing Gravel Driveway to Proposed Road With Flexbase. Contractor to keep existing width and tie in to Propose top of pavement of CR904.	Square Yard	399	\$ 24.00	\$ 9,576.00
20	6-Ft Developer Sidewalk (4-Inch Thick)	Square Yard	893	\$ 68.00	\$ 60,724.00
21	Barrier Free Ramps	Each	4	\$ 2,500.00	\$ 10,000.00
22	24" Stop Bar	Each	1	\$ 425.00	\$ 425.00

WRIGHT FARMS - CR 904
PAVING BID FORM

Item Number	Item Description	Unit	Approx. Quantity	Unit Price	Total Amount
23	6" Solid White Line	Linear Foot	2,945	\$ 3.00	\$ 8,835.00
24	6" Solid Double Yellow Line	Linear Foot	1,564	\$ 6.50	\$ 10,166.00
25	18" Solid White Line	Linear Foot	127	\$ 14.00	\$ 1,778.00
26	"Road May Flood" Sign (W8-18)	Each	4	\$ 115.00	\$ 460.00
27	Flood Gauge (W8-19)	Each	4	\$ 325.00	\$ 1,300.00
28	Sign Pole	Each	4	\$ 600.00	\$ 2,400.00
29	Type III Street Barricade	Each	1	\$ 2,600.00	\$ 2,600.00
30	Street Header	Each	1	\$ 750.00	\$ 750.00
31	Traffic Control-Produce a Traffic Control Plan along guidelines laid out in plans and Maintain Plan throughout Construction, including signs, barricades, temporary pavement, flexbase, and other materials necessary to meet the guidelines.	Lump Sum	1	\$ 16,500.00	\$ 16,500.00
Phase 1A CR904 Paving Items Subtotal				\$	836,156.00

WRIGHT FARMS - CR 904
PAVING BID FORM

Item Number	Item Description	Unit	Approx. Quantity	Unit Price	Total Amount
Phase 1B CR904 Paving Items					
1	Demo Existing Asphalt Pavement	Square Yard	3,500	\$ 11.00	\$ 38,500.00
2	Demo Existing Barbed-Wire Fence	Linear Foot	1,378	\$ 3.00	\$ 4,134.00
3	Relocate Existing Signs	Each	1	\$ 12.00	\$ 12.00
4	Site/Right-of-Way Prep	Acres	3	\$ 13,000.00	\$ 39,000.00
5	Grading Improvements	Lump Sum	1	\$ 60,000.00	\$ 60,000.00
6	8-Inch Thick Reinforced 3,600 psi Concrete Street Pavement w/ 6-Inch Standard Curb	Square Yard	2,839	\$ 73.00	\$ 207,247.00
7	8-Inch Thick Reinforced 3,600 psi Concrete Street Pavement w/ 6-Inch Standard Curb on 1 Side	Square Yard	951	\$ 73.00	\$ 69,423.00
8	10-Inch Lime-Stabilized Subgrade(Permanent)	Square Yard	4,296	\$ 5.00	\$ 21,480.00
9	Full-Depth Sawcut	Linear Foot	22	\$ 9.00	\$ 198.00
10	Connect to Existing Asphalt Pavement	Each	1	\$ 900.00	\$ 900.00
11	3.5-Inch Thick Type 'D' HMAC (Surface)	Square Yard	489	\$ 85.00	\$ 41,565.00
12	12-Inch Thick Flexible Base, Type A, GR-1-2	Square Yard	527	\$ 50.00	\$ 26,350.00
13	10-Inch Thick Lime Stabilized Subgrade(Temporary Asphalt Transition)	Square Yard	527	\$ 5.00	\$ 2,635.00
14	Lime (45 lb/sy)	Ton	109	\$ 410.00	\$ 44,690.00
15	Extend Existing Gravel Driveway to Proposed Road With Flexbase. Contractor to keep existing width and tie in to Propose top of pavement of CR904.	Square Yard	308	\$ 24.00	\$ 7,392.00
16	6-Ft Developer Sidewalk (4-Inch Thick)	Square Yard	860	\$ 68.00	\$ 58,480.00
17	Barrier Free Ramps	Each	2	\$ 2,500.00	\$ 5,000.00
18	6" Solid White Line	Linear Foot	2,379	\$ 3.00	\$ 7,137.00
19	6" Solid Double Yellow Line	Each	1,270	\$ 6.50	\$ 8,255.00
20	18" Solid White Line	Each	362	\$ 14.00	\$ 5,068.00
21	Type III Street Barricade	Each	2	\$ 2,600.00	\$ 5,200.00
22	Street Header	Each	2	\$ 750.00	\$ 1,500.00
23	12" Temporary Rock RIPRAP (D50=8") W/6" Bedding & Filter Fabric (If Required)	Square Yard	72	\$ 65.00	\$ 4,680.00
24	Traffic Control-Produce a Traffic Control Plan along guidelines laid out in plans and Maintain Plan throughout Construction, including signs, barricades, temporary pavement, flexbase, and other materials necessary to meet the guidelines.	Lump Sum	1	\$ 16,500.00	\$ 16,500.00
Phase 1B CR904 Paving Items Subtotal				\$	675,346.00

WRIGHT FARMS - CR 904
PAVING BID FORM

Item Number	Item Description	Unit	Approx. Quantity	Unit Price	Total Amount
Miscellaneous Items					
1	Mobilization	Lump Sum	1	\$ 50,000.00	\$ 50,000.00
2	Performance and Payment Bonds and Insurance for 100% of Contract Amount	Lump Sum	1	\$ 15,000.00	\$ 15,000.00
3	Maintenance Bond, 2-Year, 100% of Contract Amount	Lump Sum	1	\$ 5,000.00	\$ 5,000.00
Miscellaneous Items Subtotal				\$	70,000.00
Paving Bid Total				\$	1,581,502.00
Alternate Items					
1	Asphalt Pavement Driveway	Square Yard	707	\$ 125.00	\$ 88,375.00
Alternate Items Subtotal				\$	88,375.00
Earliest Mobilization Date: _____					

FRONTIER - COUNTY ROAD 904 UTILITIES BID FORM

Item No.	Item Description	Unit	Approx. Quantity	Unit Price	Total Amount
Phase 1A CR904 Drainage Items					
1	18-Inch Reinforced Concrete Pipe (RCP), C76, Class III, All Depths, Complete in Place	Linear Foot	17	\$ 93.00	\$ 1,581.00
2	Rubber Gasketed 18-Inch Reinforced Concrete Pipe (RCP), C76, Class III, All Depths, Complete in Place	Linear Foot	17	\$ 106.00	\$ 1,802.00
3	21-Inch Reinforced Concrete Pipe (RCP), C76, Class III, All Depths, Complete in Place	Linear Foot	14	\$ 110.00	\$ 1,540.00
4	Rubber Gasketed 24-Inch Reinforced Concrete Pipe (RCP), C76, Class III, All Depths, Complete in Place	Linear Foot	17	\$ 122.00	\$ 2,074.00
5	24-Inch Reinforced Concrete Pipe (RCP), C76, Class III, All Depths, Complete in Place	Linear Foot	594	\$ 105.00	\$ 62,370.00
6	Rubber Gasketed 24-Inch Reinforced Concrete Pipe (RCP), C76, Class III, All Depths, Complete in Place	Linear Foot	27	\$ 122.00	\$ 3,294.00
7	Rubber Gasketed 36-Inch Reinforced Concrete Pipe (RCP), C76, Class III, All Depths, Complete in Place	Linear Foot	300	\$ 190.00	\$ 57,000.00
8	Rubber Gasketed 6'x4' Reinforced Concrete Box (RCB), C76, Class IV, All Depths, Complete in Place	Linear Foot	23	\$ 525.00	\$ 12,075.00
9	Rubber Gasketed 7'x4' Reinforced Concrete Box (RCB), C76, Class IV, All Depths, Complete in Place	Linear Foot	288	\$ 620.00	\$ 178,560.00
10	5' x 5' Junction Box/ Manhole Complete in Place	Each	2	\$ 8,500.00	\$ 17,000.00
11	8' x 8' Junction Box/ Manhole Complete in Place	Each	1	\$ 19,000.00	\$ 19,000.00
12	10' x 10' Junction Box/ Manhole Complete in Place	Each	1	\$ 24,000.00	\$ 24,000.00
13	Recessed 10-Foot Curb Inlet	Each	2	\$ 9,000.00	\$ 18,000.00
14	Recessed 15-Foot Curb Inlet	Each	1	\$ 13,000.00	\$ 13,000.00
15	Recessed 20-Foot Curb Inlet	Each	1	\$ 17,000.00	\$ 17,000.00
16	12" Thick (D50=6") Rip-Rap w/ 6" Thick Bedding w/ Filter Fabric	Square Yard	30	\$ 110.00	\$ 3,300.00
17	Concrete Headwall (TxDOT FW-S) (7'x4' RCB)	Each	1	\$ 25,000.00	\$ 25,000.00
18	Re-Grade Retention Pond After Installing Headwall (Initial Grading of Retention Pond to be Done by Others)	Lump Sum	1	\$ 2,800.00	\$ 2,800.00
19	5" Concrete Rip-Rap W/#3 Bars @ 18" O.C.E.W. Outfall Structure	Square Yard	3	\$ 525.00	\$ 1,575.00
20	Post-CCTV Inspection	Linear Foot	1,297	\$ 2.50	\$ 3,242.50
21	Trench Safety	Linear Foot	1,297	\$ 1.00	\$ 1,297.00
22	Remove and Dispose of Existing abandoned 12" Water Line as needed for Storm Drain Installation	Lump Sum	1	\$ 1,550.00	\$ 1,550.00
23	Adjust Existing Water Valve to Finished Grade	Each	1	\$ 1,600.00	\$ 1,600.00
Drainage Items Subtotal				\$	468,660.50
Phase 1B CR904 Drainage Items					
1	24-Inch Reinforced Concrete Pipe (RCP), C76, Class IV, All Depths, Complete in Place	Linear Foot	49	\$ 115.00	\$ 5,635.00
2	Recessed 15-Foot Curb Inlet	Each	1	\$ 13,000.00	\$ 13,000.00
3	12" Thick (D50=8") Rip-Rap w/ 6" Thick Bedding w/ Filter Fabric	Square Yard	37	\$ 110.00	\$ 4,070.00
4	Concrete Headwall (TxDOT SETP-CD) (24" RCP)	Each	1	\$ 2,500.00	\$ 2,500.00
5	Post-CCTV Inspection	Linear Foot	49	\$ 2.50	\$ 122.50
6	Trench Safety	Linear Foot	49	\$ 1.00	\$ 49.00
7	Remove and Dispose of Existing abandoned 12" Water Line as needed for Storm Drain Installation	Lump Sum	1	\$ 1,550.00	\$ 1,550.00
Drainage Items Subtotal				\$	26,926.50

Miscellaneous Items					
1	Mobilization	Lump Sum	1	\$ 20,000.00	\$ 20,000.00
2	Performance and Payment Bonds and Insurance for 100% of Contract Amount	Lump Sum	1	\$ 8,000.00	\$ 8,000.00
3	Maintenance Bond, 2-Year, 100% of Contract Amount	Lump Sum	1	\$ 2,000.00	\$ 2,000.00
Miscellaneous Items Subtotal				\$ 30,000.00	
Utilities Bid Total				\$ 525,587.00	
Alternate Item					
1	18" Driveway Culvert with SET	Each	8	\$ 48,000.00	\$ 48,000.00
Utilities Bid Total					
Earliest Mobilization Date: _____					

TO: Colt M. Friedrich, P.E.
County Engineer
Johnson County

RE: Wright Farms/Frontier CR 904
Memorandum of Donation
Description of Work

DATE: January 24, 2025

Project Description

The project improvements of County Road 904 PH-1A and 1B are located near the intersection of CR 904 and Chisholm Trail Pkwy southbound frontage road. These improvements propose building half of an ultimate 4 lane divided minor arterial roadway adjacent to the Wright Farms/Frontier Phases 1A and 1B development. The proposed improvements transition back to existing CR 904 at the property line of Phase 1B to the west and the NTTA ROW limits to the east. The scope of work includes approximately 8,800 square yards of concrete pavement & 1,400 linear feet of storm drain. No Water and sewer improvements are proposed with this project. The storm drain system is planned to tie into a proposed pond, and stub outs are proposed for the future expansion of CR904.

Sincerely,

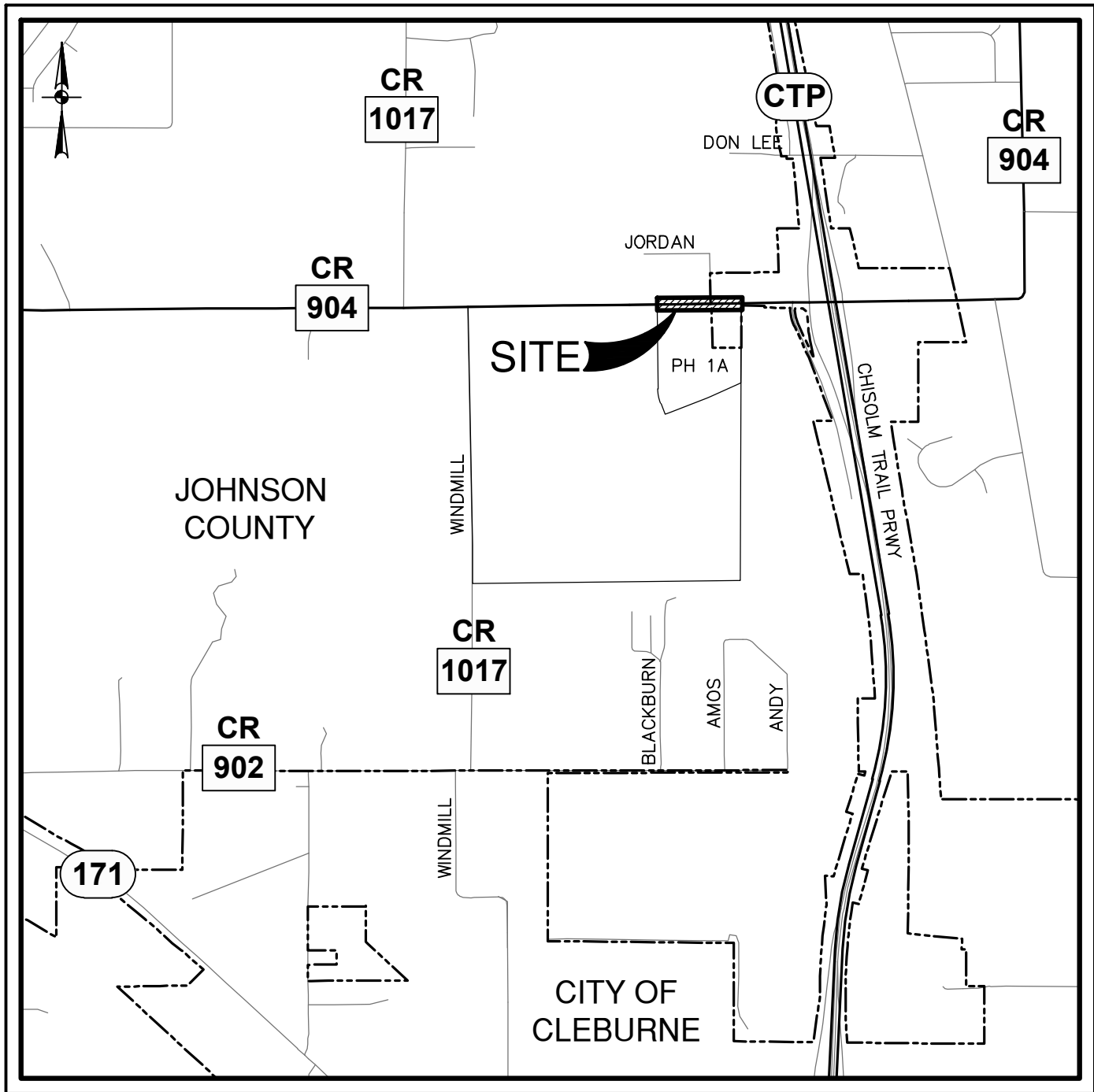
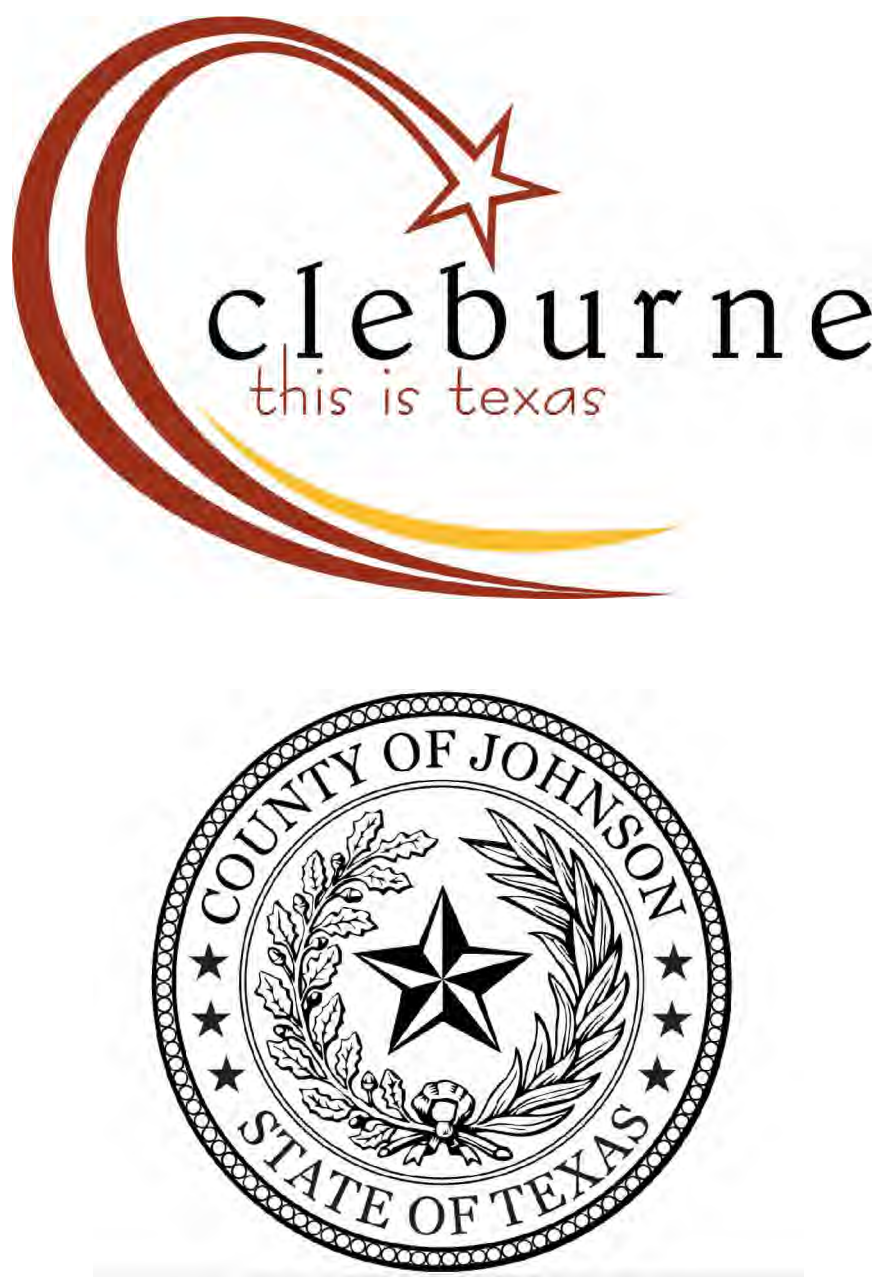
AJ Roscoe, P.E.
Project Manager

FRONTIER

COUNTY ROAD 904 IMPROVEMENTS (PHASE 1A)

CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

CIVIL CONSTRUCTION PLANS



LOCATION MAP
NOT-TO-SCALE

OWNED/DEVELOPED BY:
LENNAR HOMES OF TEXAS, INC.
1231 GREENWAY DR, SUITE 800
IRVING, TX 75038

JANUARY 2025

**PAPE-DAWSON
ENGINEERS**
6105 TENNYSON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

1/28/25
CONTACT: AJ ROSCOE, P.E.
AROSCOE@PAPE-DAWSON.COM

SHEET INDEX

Sheet Title	Sheet No.
COVER SHEET	1
GENERAL CONSTRUCTION NOTES	2
DEMOLITION PLAN	3
EROSION CONTROL PLAN	4
EROSION CONTROL DETAILS (1)	5
EROSION CONTROL DETAILS (2)	6
PAVING PLAN & PROFILE - CR 904 (1)	7
PAVING PLAN & PROFILE - CR 904 (2)	8
GRADING PLAN	9
EXISTING DRAINAGE AREA MAP	10
PROPOSED DRAINAGE AREA MAP	11
ULTIMATE DRAINAGE AREA MAP	12
DRAINAGE & HYDRAULIC CALCULATIONS	13
STORM DRAIN PLAN & PROFILE - SD-A1 (1)	14
STORM DRAIN PLAN & PROFILE - SD-A1 (2)	15
STORM DRAIN PROFILES - SD-A2 - SD-A4 & SD-B2	16
RETENTION POND	17
CONSTRUCTION PHASING PLAN - STAGE 1A & 1B	18
CONSTRUCTION PHASING PLAN - STAGE 2A & 2B	19
CONSTRUCTION PHASING PLAN - STAGE 3	20
PAVING DETAILS (1)	21
PAVING DETAILS (2)	22
STREET LIGHT, STRIPING & SIGNAGE DETAILS (1)	23
STREET LIGHT, STRIPING & SIGNAGE DETAILS (2)	24
STREET LIGHT, STRIPING & SIGNAGE DETAILS (3)	25
STORM DRAIN DETAILS (1)	26
STORM DRAIN DETAILS (2)	27
STORM DRAIN DETAILS (3)	28
STREET LIGHT, SIDEWALK & SIGNAGE PLAN	29
PAVEMENT MARKING LAYOUT	30
TRAFFIC CONTROL DETAILS (1)	31
TRAFFIC CONTROL DETAILS (2)	32
TRAFFIC CONTROL DETAILS (3)	33
TRAFFIC CONTROL DETAILS (4)	34



Know what's below.
Call before you dig.

ALL GRADING OPERATIONS SHALL BE IN ACCORDANCE WITH
THE GEOTECHNICAL REPORT NO. W232725-2 BY UES ON
JUNE 4, 2024.

GENERAL NOTES

1. STANDARDS AND SPECIFICATIONS: ALL MATERIALS, CONSTRUCTION METHODS, WORKMANSHIP, EQUIPMENT, SERVICES AND TESTING FOR ALL PUBLIC IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' ORDINANCES, REGULATIONS, REQUIREMENTS, STATUTES, SPECIFICATIONS AND DETAILS. LATEST PRINTING AND AMENDMENTS THERETO THE GOVERNING AUTHORITIES' PUBLIC WORKS AND WATER DEPARTMENT REQUIREMENTS, PLUMBING CODES, AND FIRE DEPARTMENT REGULATIONS SHALL TAKE PRECEDENCE FOR ALL PRIVATE IMPROVEMENTS. APPLICATIONS FOR OTHER PRIVATE CONSTRUCTION NOT REGULATED BY THE GOVERNING AUTHORITY SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, LATEST PRINTING AND AMENDMENTS THERETO, EXCEPT AS MODIFIED BY THE PROJECT CONTRACT DOCUMENTS.
2. EXAMINATION OF PLANS: PRIOR TO COMMENCING ANY CONSTRUCTION, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THE WORK DESCRIBED, OR NO SUCH FAMILIARIZATION, SHALL BE CONSIDERED ACCEPTABLE BY THE GOVERNING AUTHORITY IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
3. EXAMINATION OF SITE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING AND SATISFYING HIMSELF AS TO THE CONDITIONS AFFECTING THE WORK, INCLUDING BUT NOT RESTRICTED TO THE BEARING UPON TRANSPORTATION, DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRIC POWER, ROADS AND UNCERTAINTIES OF WEATHER OR SIMILAR PHYSICAL CONDITIONS AT THE SITE, CONDITIONS OF THE GROUND, AND THE EQUIPMENT AND FACILITIES NEEDED PRELIMINARILY TO AND DURING THE PERFORMANCE OF THE WORK. FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM OF RESPONSIBILITY FOR ESTIMATING THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK.
4. SUBSURFACE INVESTIGATION: SUBSURFACE EXPLORATION TO ASCERTAIN THE NATURE OF SOILS HAS BEEN PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD ON THE PROJECT. THE SUBSURFACE INFORMATION WILL BE MADE AVAILABLE FOR THE CONTRACTORS USE. THE ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR THE ACCURACY, TRUE LOCATION, AND EXTENT OF THE SOILS INFORMATION PREPARED BY OTHERS.
5. TOPOGRAPHY SURVEY: TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THE PLANS IS PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE INFORMATION SHOWN ON THE PLANS IS ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERRORS, DISCREPANCIES, OR OMISSIONS TO THE SURVEY INFORMATION PROVIDED.
6. COMPLIANCE WITH LAWS: THE CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, INCLUDING ALL CODES, ORDINANCES, AND REGULATIONS APPLICABLE TO THIS CONTRACT AND THE WORK TO BE DONE THEREUNDER WHICH EXIST OR MAY BE ENACTED LATER BY GOVERNMENTAL BODIES HAVING JURISDICTION OR AUTHORITY FOR SUCH ENACTMENT. ALL WORK REQUIRED UNDER THIS CONTRACT SHALL COMPLY WITH ALL REQUIREMENTS OF LAW, REGULATION, PERMIT OR LICENSE. IF THE CONTRACTOR FINDS THAT THERE IS A VARIANCE, HE SHALL IMMEDIATELY REPORT THIS TO THE OWNER FOR RESOLUTION.
7. PUBLIC CONVENIENCE AND SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE. THE CONTRACTOR SHALL INCLUDE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. MATERIALS STORED ON THE WORK SITE SHALL BE PLACED AND THE WORK SHALL AT ALL TIMES BE SO CONDUCTED AS TO CAUSE NO GREATER OBSTRUCTION TO THE TRAVELING PUBLIC THAN IS CONSIDERED ACCEPTABLE BY THE GOVERNING AUTHORITIES AND THE DEVELOPER AND NOT TO PREVENT FREE UNINTERRUPTED ACCESS TO ALL HYDRAULIC, WATER VALVES, GAS VALVES, MANHOLES AND FIRE ALARM OR POLICE CALL BOXES IN THE VICINITY.
8. STORM WATER POLLUTION PREVENTION PLAN (SWPPP): THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE SWPPP WHILE CONDUCTING HIS ACTIVITIES ON THE PROJECT.
9. PERMITS AND LICENSES: THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK AND SHALL FULLY COMPLY WITH ALL THEIR TERMS AND CONDITIONS. WHENEVER THE WORK UNDER THIS CONTRACT REQUIRES OBTAINING PERMITS FROM GOVERNING AUTHORITIES, THE CONTRACTOR SHALL FURNISH DUPLICATE COPIES OF SUCH PERMITS TO THE DEVELOPER BEFORE THE WORK COVERED THEREBY IS STARTED. NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS HAVE BEEN OBTAINED. COSTS ASSOCIATED WITH PERMITS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
10. APPROVED PLANS: THE CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED PLANS ON-SITE AT ALL TIMES.
11. BONDS: PERFORMANCE, PAYMENT, AND MAINTENANCE BONDS MAY BE REQUIRED FROM THE CONTRACTOR FOR PUBLIC IMPROVEMENTS. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE THE BONDS IN THE FORM AND IN THE AMOUNTS AS REQUIRED BY THE GOVERNING AUTHORITIES. COSTS ASSOCIATED WITH PROVIDING THE BONDS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
12. INSPECTION AND TESTING: THE GOVERNING AUTHORITIES AND/OR THE DEVELOPER WILL PROVIDE INSPECTION AND TESTING OF THE PROPOSED CONSTRUCTION AT THEIR EXPENSE. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE WELL IN ADVANCE OF PENDING CONSTRUCTION ACTIVITIES TO THE GOVERNING AUTHORITIES AND/OR OWNER FOR SCHEDULING OF INSPECTION/TESTING SERVICES. IN THE EVENT THE NEED OF THE DEVELOPER OR THE CONTRACTOR TO CONDUCT WORK OR CLAIMS FOR ADDITIONAL COMPENSATION TESTS NECESSARY TO DETERMINE THE ACCEPTABILITY OF MATERIALS OR CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.
13. SHOP DRAWINGS: THE CONTRACTOR SHALL PREPARE, REVIEW, AND SUBMIT ALL SHOP DRAWINGS, PRODUCT DATA AND SAMPLES REQUIRED BY THE GOVERNING AUTHORITIES AND THE PROJECT CONTRACT DOCUMENTS.
14. SURVEYING: ALL SURVEYING REQUIRED FOR CONSTRUCTION STAKING WILL BE PROVIDED BY THE DEVELOPER ONE TIME ONLY. ALL RESTAKING SHALL BE AT THE CONTRACTOR'S EXPENSE.
15. PROTECTION OF PROPERTY CORNERS AND BENCHMARKS: THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS, MARKERS, AND BENCHMARKS. WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED SHALL BE RESET BY A REGISTERED PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
16. EXISTING STRUCTURES: THE PLANS SHOW THE LOCATION OF ALL KNOWN SURFACE AND SUBSURFACE STRUCTURES. HOWEVER, THE DEVELOPER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE FAILURE TO SHOW ANY OR ALL OF THESE STRUCTURES ON THE PLANS OR TO SHOW THEM IN THEIR EXACT LOCATION. THE CONTRACTOR SHALL SECURE THE NECESSARY OPERATIONS SHALL BE REDUCED AT HIS EXPENSE TO AVOID UNNECESSARY INTERFERENCES OR DELAYS. THE CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVALS, REPLACEMENTS, AND CONSTRUCTION WITH THE APPROPRIATE GOVERNING AUTHORITIES. THE DEVELOPER WILL NOT BE LIABLE FOR DAMAGES DUE TO DELAY BECAUSE OF THE ABOVE.
17. PROTECTION OF EXISTING UTILITIES: AS REQUIRED BY THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM, THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON THE BEST RECORDS AND/OR FIELD INFORMATION AVAILABLE AND ARE NOT GUARANTEED BY THE DEVELOPER OR ENGINEER TO BE ACCURATE AS TO THE LOCATION AND DEPTH. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF HIS ACTIVITIES IN ORDER THAT HE MAY NEGOTIATE SUCH LOCAL ADJUSTMENTS AS NECESSARY IN THE CONSTRUCTION PROCESS TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL EXISTING UTILITIES, SERVICES, AND STRUCTURES ENCOUNTERED WHETHER OR NOT THEY ARE ON THE PLANS. ANY DAMAGE TO EXISTING UTILITIES, SERVICES, AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO AVOID UNNECESSARY INTERFERENCES OR DELAYS. THE CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVALS, REPLACEMENTS, AND CONSTRUCTION WITH THE APPROPRIATE GOVERNING AUTHORITIES. THE DEVELOPER WILL NOT BE LIABLE FOR DAMAGES DUE TO DELAY BECAUSE OF THE ABOVE.
18. DAMAGE TO EXISTING FACILITIES: ALL EXISTING UTILITIES, PAVEMENT, SIDEWALKS, WALLS, FENCES, ETC., DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO STARTING THE WORK.
19. FIRE AND LIFE SAFETY SYSTEMS: THE CONTRACTOR SHALL NOT REMOVE, DISABLE, OR DISRUPT EXISTING FIRE OR LIFE SAFETY SYSTEMS WITHOUT RECEIVING PRIOR WRITTEN PERMISSION FROM THE GOVERNING AUTHORITY.
20. TRENCH SAFETY: THE CONTRACTOR IS RESPONSIBLE FOR HAVING A TRENCH SAFETY PLAN PREPARED IN ACCORDANCE WITH OSHA REQUIREMENTS BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS AND IMPLEMENTED BY THE CONTRACTOR. THE CONTRACTOR WILL BE IN EFFECT DURING THE CONSTRUCTION OF THE PROJECT. THE COSTS FOR PREPARATION OF THE TRENCH SAFETY PLAN SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
21. TRAFFIC CONTROL: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AND SUBMIT FOR APPROVAL BY THE GOVERNING AUTHORITIES A TRAFFIC CONTROL PLAN PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS OUTLINING TRAFFIC MANAGEMENT PROCEDURES TO BE PROVIDED DURING CONSTRUCTION. THE COSTS ASSOCIATED WITH THE PREPARATION AND IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
22. ACCESS TO ADJACENT PROPERTIES: ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE GOVERNING AUTHORITIES AND/OR OWNER.
23. ACCESS ROUTES, STAGING AREAS AND STORAGE AREAS: ALL PRIVATE HAUL ROADS AND ACCESS ROUTES AND STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE APPROVAL OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ROADS AND OTHER FACILITIES USED DURING CONSTRUCTION. UPON COMPLETION OF THE PROJECT, ALL HAUL ROADS,

- ACCESS ROADS, STAGING AREAS AND STORAGE AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO STARTING WORK.
24. PARKING OF CONSTRUCTION EQUIPMENT: AT NIGHT AND DURING ALL PERIODS OF TIME WHEN EQUIPMENT IS NOT BEING ACTIVELY USED FOR CONSTRUCTION WORK, THE CONTRACTOR SHALL PARK THE EQUIPMENT AT LOCATIONS WHICH ARE APPROVED BY THE OWNER. DURING THE CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH THE PRESENT ZONING REQUIREMENTS OF THE GOVERNING AUTHORITIES IN THE CITY OF VACANT PROPERTY FOR STORAGE PURPOSES. THE CONTRACTOR SHALL ALSO PROVIDE ADEQUATE BARRICADES, MARKERS, AND LIGHTS TO PROTECT THE OWNER, THE GOVERNING AUTHORITIES, THE PUBLIC, AND THE WORK. ALL BARRICADES, LIGHTS, AND MARKERS MUST MEET THE REQUIREMENTS OF THE GOVERNING AUTHORITIES' REGULATIONS.
25. WATER FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR PURCHASING WATER FROM THE GOVERNING AUTHORITY FOR HIS USE ON THE PROJECT SITE. COST ASSOCIATED WITH THIS SERVICE SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
26. TEMPORARY ELECTRIC AND COMMUNICATIONS FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR THE INSTALLATION AND PURCHASING OF TEMPORARY ELECTRIC AND COMMUNICATIONS SERVICES FROM THE GOVERNING AUTHORITIES FOR HIS USE ON THE PROJECT SITE. COSTS ASSOCIATED WITH THIS SERVICE SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
27. FENCES: ALL FENCES ENCOUNTERED AND REMOVED DURING CONSTRUCTION, EXCEPT THOSE DESIGNATED TO BE REMOVED OR RELOCATED, SHALL BE RESTORED TO THE ORIGINAL OR BETTER THAN CONDITION UPON COMPLETION OF THE PROJECT. WHERE WIRE FENCING, EITHER WIRE MESH OR BARBED WIRE, IS NOT TO BE CROSSED, THE CONTRACTOR SHALL SET CROSS-BRACED POSTS ON EITHER SIDE OF THE CROSSING. TEMPORARY FENCING SHALL BE ERECTED IN PLACE OF THE FENCING REMOVED WHENEVER THE WORK IS NOT IN PROGRESS AND WHEN THE SITE IS VACATED OVERNIGHT AND/OR AT ALL TIMES TO PREVENT PERSONS AND/OR LIVESTOCK FROM ENTERING THE CONSTRUCTION AREA. THE COST OF FENCE REMOVAL, TEMPORARY CLOSURES, AND REPLACEMENT SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
28. COORDINATION WITH OTHERS: IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA, THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.
29. CONDITION OF THE SITE DURING CONSTRUCTION: THE CONTRACTOR SHALL KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS, AND RUBBISH AS IS PRACTICAL. THE CONTRACTOR SHALL REMOVE MATERIAL DEBRIS AND RUBBISH FROM ANY PORTION OF THE SITE IF, IN THE OPINION OF THE DEVELOPER, SUCH MATERIAL, DEBRIS, AND RUBBISH CONSTITUTES A NUISANCE OR IS OBJECTIONABLE.
30. EXISTING ROADWAYS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF EXISTING PAVED ROADS. COSTS ASSOCIATED WITH MAINTAINING THE CLEANLINESS OF EXISTING ROADS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
31. DUST CONTROL: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO CONTROL DUST ON THE PROJECT SITE. DUST CONTROL MEASURES OR OTHER METHODS APPROVED BY THE GOVERNING AUTHORITIES, COSTS ASSOCIATED WITH DUST CONTROL, SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
32. CLEAN UP FOR FINAL ACCEPTANCE: THE CONTRACTOR SHALL MAKE A FINAL CLEAN UP OF ALL PARTS OF THE WORK BEFORE ACCEPTANCE BY THE OWNER. THIS CLEAN UP SHALL INCLUDE REMOVAL OF ALL OBJECTIONABLE MATERIALS AND, IN GENERAL, PREPARING THE SITE OF THE WORK IN AN ORDERLY MANNER OF APPEARANCE.
33. REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK: ALL WORK, WHICH HAS BEEN REJECTED OR CONDEMNED, SHALL BE REPAIRED, OR IF IT CANNOT BE REPAIRED SATISFACTORILY, SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. DEFECTIVE MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE. WORK DONE NOT IN CONFORMITY WITH THE GRADES SHOWN ON THE DRAWINGS OR AUTHORIZED BY THE AUTHORITY AND/OR IN VIOLATION OF THE PROVISIONS, SHALL BE AT THE CONTRACTOR'S RISK AND WILL BE CONSIDERED UNAUTHORIZED, AND AT THE OPTION OF THE OWNER MAY NOT BE MEASURED AND PAID FOR AND MAY BE ORDERED REMOVED AT THE CONTRACTOR'S EXPENSE. UPON FAILURE OF THE CONTRACTOR TO REPAIR SATISFACTORILY OR TO REMOVE AND REPLACE THE DIRECTED, REJECTED, UNAUTHORIZED, OR CONDEMNED WORK OR MATERIALS IMMEDIATELY AFTER RECEIVING NOTICE FROM THE OWNER, THE OWNER WILL, AFTER GIVING WRITTEN NOTICE TO THE CONTRACTOR, HAVE THE AUTHORITY TO CAUSE UNAUTHORIZED WORK TO BE REMEDIED OR REMOVED AND REPLACED OR TO CAUSE THE AUTHORIZED WORK TO BE REMOVED AND TO DEDUCT THE COST THEREOF ANY MONIES DUE OR TO BECOME DUE TO THE CONTRACTOR.
34. DISPOSITION AND DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS: ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDED BUT NOT LIMITED TO EXCESS MATERIAL AND UNSUITABLE MATERIALS SUCH AS CONCRETE, ASPHALT, LARGE ROCKS, REFUSE, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT. CONTRACTOR SHALL ALSO COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE. COSTS ASSOCIATED WITH THE DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
35. RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEM COVERED BY THE PROJECT CONTRACT DOCUMENTS. THE COMPLETE SET OF RECORD DRAWINGS MUST BE DELIVERED TO THE OWNER AND/OR ENGINEER BEFORE REQUESTING FINAL PAYMENT.

GRADING NOTES

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PROVISIONS OUTLINED IN F.H.A. DATA SHEET 79G AND/OR THE SPECIFICATIONS PREPARED BY THE SOILS ENGINEER.

36. *ALL CLAY SOIL USED AS FILL SHOULD BE COMPACTED TO AT LEAST 95% AND NOT EXCEEDING 105 PERCENT OF STANDARD PROCTOR DENSITY AS DETERMINED BY A.S.T.M. D-698. THE COMPACTED MOISTURE CONTENT OF THE CLAYS DURING PLACEMENT SHOULD BE AT LEAST OPTIMUM AND NOT EXCEEDING FIVE (5) PERCENTAGE POINTS ABOVE OPTIMUM.
37. *LIMESTONE OR OTHER ROCK-LIKE MATERIALS USED AS FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT AND NOT EXCEEDING 105 PERCENT OF STANDARD PROCTOR DENSITY AS DETERMINED BY A.S.T.M. D-698- THE COMPACTED MOISTURE CONTENT DURING PLACEMENT SHOULD BE WITHIN PLUS OR MINUS THREE (3) PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT. NO ROCK LARGER THAN SIX INCHES IN ITS GREATEST DIMENSION SHALL BE USED IN FILL WHEN THE FILL IS PLACED UNDER PADS, STREETS OR ANY OTHER AREAS THAT WILL HAVE ANY TYPE OF STRUCTURES.
38. COMPACTION SHOULD BE ACCOMPLISHED BY PLACING THE FILL IN SIX INCH THICK LOOSE LIFTS AND COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. PARTICLE SIZES USED IN FILL SHALL BE LESS THAN SIX (6) INCHES DIAMETER.
39. GRADING CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OFF-SITE OF ALL EXCAVATED AND CLEARED MATERIAL, WHICH SOILS LAB DECLARES UNSUITABLE FOR USE ON-SITE.
40. CONTRACTOR TO SLOPE THE ADJACENT GROUND AWAY FROM BUILDING PAD TO ACHIEVE POSITIVE SURFACE DRAINAGE.
41. INITIAL SITE GRADING SHALL BE COMPLETED TO A TOLERANCE OF PLUS OR MINUS ONE TENTH OF ONE FOOT IN STREETS AND PLUS OR MINUS THREE TENTHS OF ONE FOOT FOR THE BUILDING PADS. FINAL BUILDING PAD GRADING, TO BE DONE UPON COMPLETION OF PAVING AND UTILITY FACILITIES, SHALL BE PROVIDED TO A TOLERANCE OF PLUS OR MINUS TWO TENTHS OF ONE FOOT AT ALL FOUR CORNERS AND CENTER OF BUILDING PAD, IN ALL SWALES, AND LOT CORNERS.
42. CONTRACTOR SHALL REPLACE ANY EROSION CONTROL MATERIALS AT THE END OF EACH WORK DAY IF SAID MATERIALS WERE REMOVED DURING THE DAY FOR EASE OF CONSTRUCTION OR ACCESS.
43. IF ROCK IS ENCOUNTERED IN THE STREET SUBGRADE, THE ROCK SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES, REMOVED FROM THE STREET, AND NON-ROCK MATERIAL SHALL BE REPLACED FOR THE STREET SUBGRADE. ROCK IN THE STREET PARKWAYS SHALL BE REMOVED AND REPLACED WITH SIX INCHES OF TOP SOIL. THIS SHALL BE ACCOMPLISHED BY THE EXCAVATION CONTRACTOR, SUBSIDIARY TO THIS CONTRACT.
44. NO PART OF ANY RETAINING WALL SHALL BE WITHIN CITY RIGHT-OF-WAY, OR CITY PROPERTY (I.E. PARK) INCLUDING FOOTING.

* APPLIES TO ALL AREAS OUTSIDE OF PUBLIC R.O.W. ONLY. REFER TO PAVING GENERAL CONSTRUCTION NOTES FOR DENSITY/MOISTURE REQUIREMENTS IN R.O.W.

PAVING NOTES

1. UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE OWNER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
2. CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO ANY OPERATIONS.
3. SEE UTILITY PLANS FOR LOCATION OF WATER LINES, SANITARY SEWER LINES, STORM DRAINS, AND UTILITY CROSSING.
4. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO APPLICABLE CITY STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS.

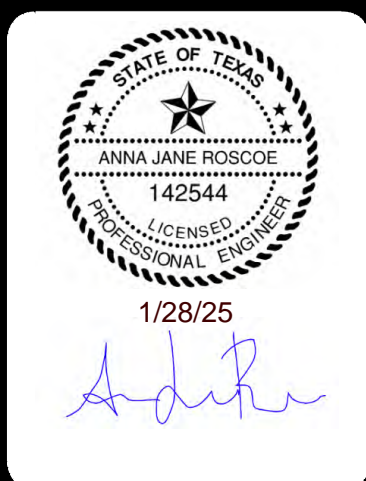
4. ALL FILL SHALL BE COMPACTED AS SPECIFIED IN THE GEOTECHNICAL REPORT. DENSITY TEST RESULTS WILL BE REQUIRED AT THE PRE-CONSTRUCTION MEETING FOR ALL FILL AREAS IN EXCESS OF 2.0' UNDERNEATH PROPOSED PAVING.
6. STREET CURB RADIi AT STREET INTERSECTIONS SHALL BE 20' (MEASURED FROM BACK OF CURB) UNLESS OTHERWISE NOTED. ALL PAVING DIMENSIONS ARE TO BACK OF CURB, UNLESS OTHERWISE NOTED.
7. TYPICAL PAVEMENT SECTION IS TO TRANSITION FROM CROWN SECTION TO TRANSVERSE SECTION WITHIN A DISTANCE OF 50' OF WHERE A VALLEY GUTTER CROSSES A STREET INTERSECTION.
8. SEE PAVEMENT CONSTRUCTION DETAILS SHEET FOR PAVEMENT SECTIONS AND CONSTRUCTION DETAILS.
9. BLUE REFLECTOR TO BE INSTALLED 1.0' OFFSET FROM CENTERLINE OF STREET ON FIRE HYDRANT SIDE, FOR PURPOSES OF QUICK HYDRANT LOCATION AT NIGHT.

STORM DRAIN NOTES

1. WATER AND SANITARY SEWER LINES ARE SHOWN FOR REFERENCE ONLY. REFER TO WATER AND SANITARY SEWER PLANS FOR EXACT LOCATION.
2. ALL STORM DRAIN LINES TO BE R.C.P. CLASS III UNLESS OTHERWISE NOTED.
3. ALL CURVED STORM DRAIN IS TO BE CONSTRUCTED WITH RADIUS PIPE OR IS TO BE DEFLECTED AT JOINTS (PER MANUFACTURER'S SPECIFICATIONS) AND GROUTED AS NECESSARY. IT SHALL BE THE CONTRACTOR'S OPTION AS TO WHICH METHOD TO USE (NO SEPARATE PAY).
4. ALL AREA DISTURBED BY CHANNEL EROSION SHALL BE RE-VEGETATED AS SET FORTH IN THE STORM WATER TREATMENT (SWMP) WHICH WAS PREPARED SPECIFICALLY FOR THIS PROJECT, OR OTHERWISE PROTECTED AGAINST EROSION BY THE USE OF RIP-RAP, GABIONS, OR GEOTEXTILES.

EROSION & SEDIMENT CONTROL NOTES

- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY THE GOVERNING AUTHORITIES AND ALL PERIMETER EROSION CONTROL DEVICES HAVE BEEN INSTALLED.
- THE EROSION CONTROL PLAN IS A SUPPLEMENT TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY OTHERS. REFER TO THE SWPPP FOR ADDITIONAL REQUIREMENTS.
- THE GENERAL CONTRACTOR, AS THE TCOE DEFINES "OPERATOR," SHALL PERFORM ALL REQUIRED INSPECTIONS OF STORM WATER CONTROLS AND PRACTICES AT FREQUENCIES OUTLINED IN THE TPDES GENERAL PERMIT AND SHALL FILL OUT APPROPRIATE INSPECTION FORMS (AS PROVIDED IN THE SWPPP) UNLESS OTHERWISE DIRECTED BY THE OWNER.
- THE GENERAL CONTRACTOR (AND ALL SUBCONTRACTORS INVOLVED WITH ANY CONSTRUCTION ACTIVITIES RELATED TO EARTHWORK, EROSION CONTROL, ETC. OR WHICH UTILIZE POSSIBLE POLLUTANTS AS DEFINED IN THE TPDES GENERAL PERMIT) SHALL REVIEW AND ADHERE TO THE SWPPP FOR THE PROJECT, AS WELL AS ALL THE TCOE REQUIREMENTS SET FORTH IN THE TPDES GENERAL PERMIT.
- ADDITIONAL EROSION CONTROL DEVICES AND/OR ADJUSTMENT OF LOCATIONS FOR EROSION CONTROL MAY BE IMPLEMENTED BY THE CONTRACTOR AT HIS DISCRETION AND/OR IN THE OPINION OF THE CITY INSPECTOR. NO ADDITIONAL EXPENSE TO THE OWNER, THE ADDITION OR DELETION OF ANY EROSION CONTROL MEASURE MAY REQUIRE THAT THE SWPPP BE MODIFIED IN ACCORDANCE WITH THE TCOE'S TPDES GENERAL PERMIT GUIDELINES.
 - EXCAVATION CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF SILT BARRIERS, CHECK DAMS, AND CONSTRUCTION ENTRANCE/EXIT.
 - UTILITY CONTRACTOR (WATER, SEWER & STORM DRAIN) TO BE RESPONSIBLE FOR INSTALLATION OF STAGE 1 AND STAGE 2 INLET PROTECTION.
 - OWNER TO BE RESPONSIBLE FOR SEEDING AND FINAL REMOVAL OF EROSION CONTROLS.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES ALREADY IN PLACE. CONTRACTOR SHALL REMOVE AND REPLACE EROSION CONTROL AS NEEDED FOR CONSTRUCTION OR ACCESS. ALL EROSION CONTROL MUST BE IN PLACE AT THE END OF EACH DAY.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO USE WHATEVER MEANS ARE NECESSARY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS, STORM DRAIN SYSTEMS, INLETS, AND ADJACENT PROPERTY FROM EROSION DEPOSITS. THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT OF WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES SHOWN AND NOTED IN THESE PLANS AND THE SWPPP.
- ALL EROSION CONTROL DEVICES TO BE INSPECTED, CLEANED, AND/OR REPLACED AFTER EACH STORM.
- USE OF ON-SITE FUEL STORAGE TANKS IS DISCOURAGED. HOWEVER, IF USED, THE PREVENTION OF HAZARDS TO THE GROUND WATER IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR UTILIZING SAID STORAGE. SEE N.C.T.C.O.G. CONSTRUCTION BMP MANUAL SECTION 4 - HAZARDOUS WASTE MANAGEMENT.
- A CENTRALIZED PIT/WASH BASIN SHALL BE CONSTRUCTED ON-SITE FOR THE PURPOSE OF CONCRETE TRUCK WASHING. SEE N.C.T.C.O.G. CONSTRUCTION BMP MANUAL SECTION 4 - CONCRETE WASTE MANAGEMENT.
- CONTRACTORS SHALL PARK, STORE EQUIPMENT AND MATERIALS AND SERVICE VEHICLES AT THE "PARKING AND STORAGE AREA". THE LOCATION OF SAID AREA IS TO BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
- CONSTRUCTION ENTRANCES ARE TO BE INSTALLED AT ALL POINTS WHERE EQUIPMENT ENTERS OR LEAVES THE SITE. THE LOCATION OF SAME IS TO BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
- EROSION CONTROLS TO REMAIN IN PLACE AND TO BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
- EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLET OR IN CHANNELS, DRAINAGEWAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY MEASURES, INCLUDING FLOOD DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE AT THE CONCLUSION OF ANY PROJECT. ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT AS A RESULT OF EROSION CONTROL MEASURES.
- ALL WASH WATER SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN WASH WATER POLLUTANTS AND STORM RUNOFF DISCHARGED FROM THIS SITE.
- DISTURBED AREAS ON THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR AT LEAST 14 DAYS SHALL BE TEMPORARILY PLANTED AND/OR SEEDED AND WATERED.
- DISTURBED AREAS ON THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED AND AREAS WHERE FINAL GRADE HAS BEEN ACHIEVED SHALL BE PERMANENTLY PLANTED AND/OR SEEDED WITHIN 14 DAYS.
- PLANTING AND/OR SEEDING OF VEGETATED AREAS TO ACCOMPLISH STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE LANDSCAPING PLAN. AREAS BEYOND THE LIMITS OF THE LANDSCAPING PLAN (OR WHEN A LANDSCAPING PLAN DOES NOT EXIST) SHALL BE HYDROMULCHED WITH HIGHWAY MIX AND WATERED WITH TEMPORARY ABOVE GROUND IRRIGATION UNTIL THE VEGETATION IS ESTABLISHED.
- THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SILT IN ANY STORM SEWER INLETS AND PIPES, AND ALONG SILT FENCES, WITHIN 48 HOURS AFTER INSPECTIONS OF DEVICES REVEALS THE PRESENCE OF EXCESS SILTATION.
- SILT FENCES SHALL BE PLACED AROUND STOCKPILES USED ON THE SITE.
- THE CONTRACTOR SHALL MODIFY THIS PLAN TO SHOW LOCATIONS OF TEMPORARY WASHDOWN AREA, PORTABLE TOILETS, EQUIPMENT MAINTENANCE/REPAIR AREAS, STOCKPILE AREAS, FUEL STORAGE AREAS, AND POLLUTANT CONTAINERS FOR EACH.

[illegible]

**PAPE-DAWSON
ENGINEERS**

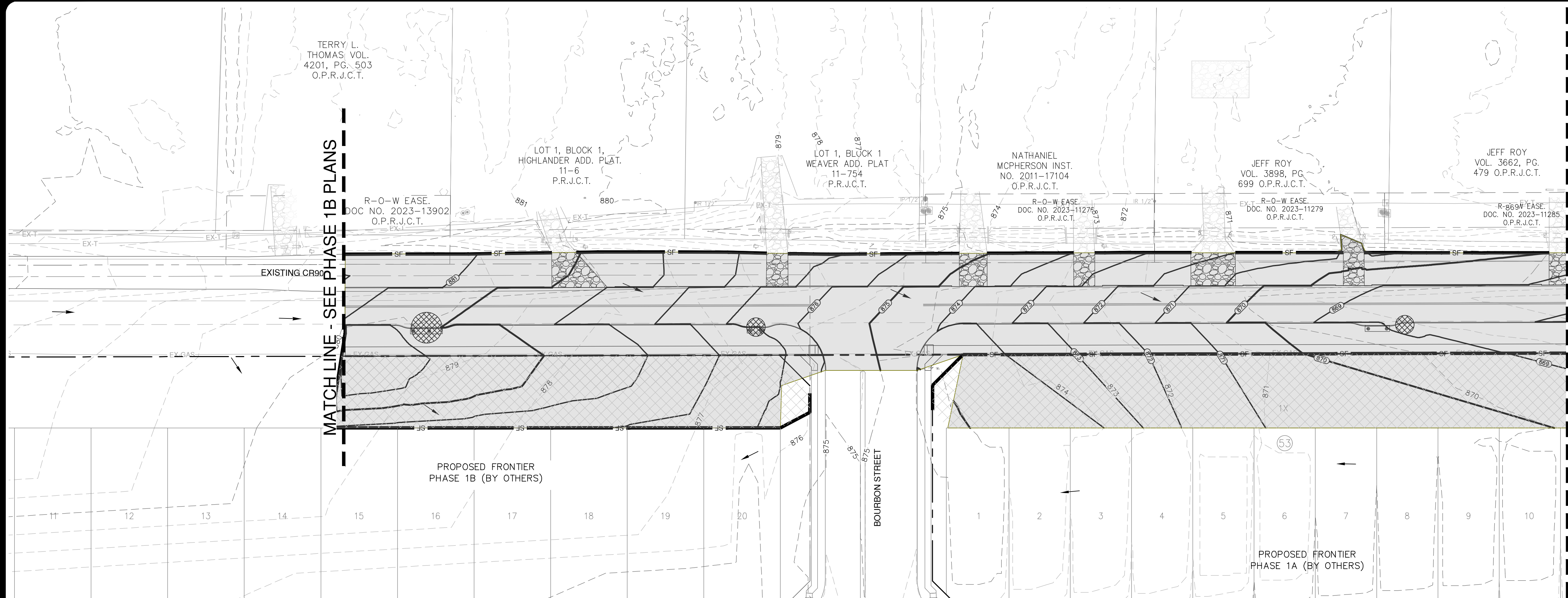
COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

GENERAL CONSTRUCTION NOTES

PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 2

Date: Jan 29, 2025, 2:33pm User ID: AR05C0E
File: S:\Projects\614\05\01\2.0 Design\2.4 CIV\2.4.3 Plan Sheets\EC-6140501.dwg

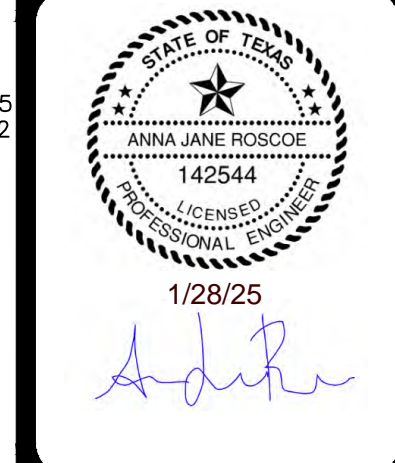
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BENCHMARKS				
CP#1	CP#2	CP#3	CP#4	CP#5
HUB 1/2" IR N: 6838620.362 E: 2298097.190 ELEV: 876.109	HUB 60D NAIL N: 6838595.465 E: 2298117.060 ELEV: 876.579	HUB 1/2" IR N: 6842154.006 E: 2301645.505 ELEV: 861.768	HUB 1/2" IR N: 6841086.582 E: 2298098.802 ELEV: 861.768	HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768

LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	FLOW ARROW
	SILT FENCE
	LIMITS OF DISTURBANCE
	INLET PROTECTION
	CONSTRUCTION ENTRANCE
	ROCK CHECK DAM
	STONE OVERFLOW STRUCTURE
	SLOPE STABILIZATION BLANKET
	GRAVEL PAVEMENT

NO.	REVISION	DATE

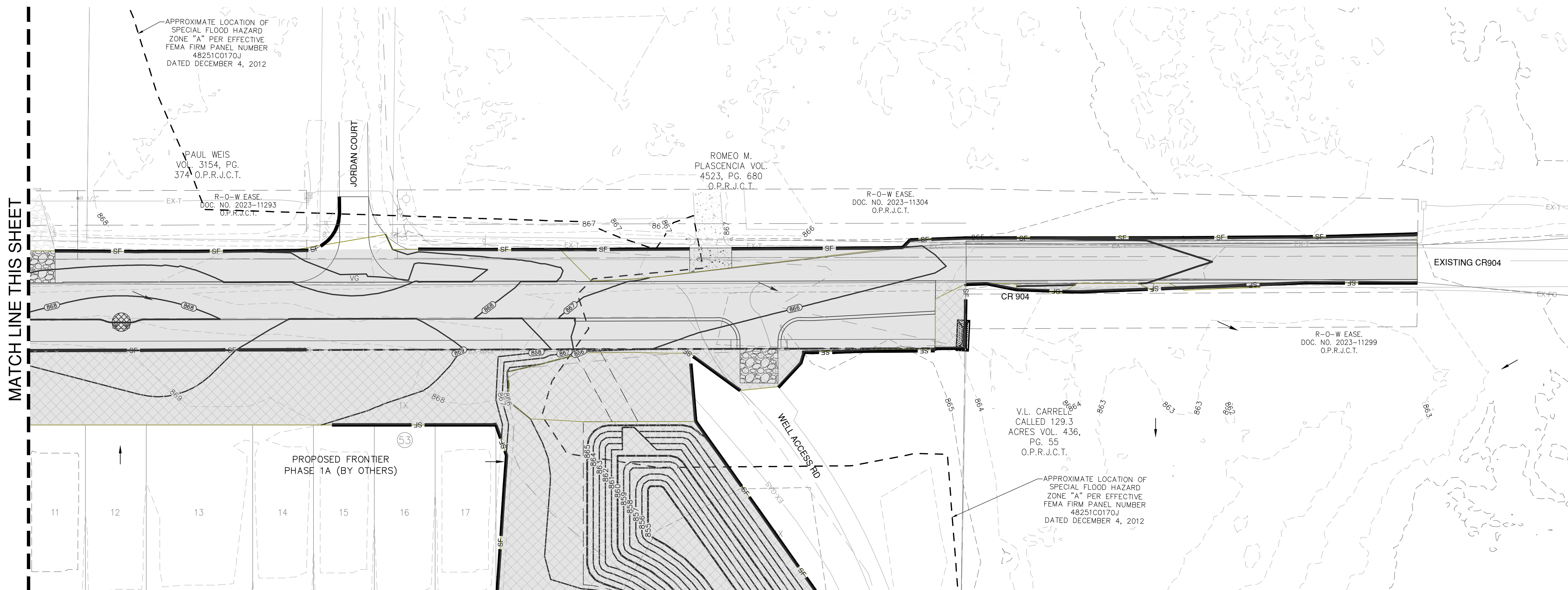


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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

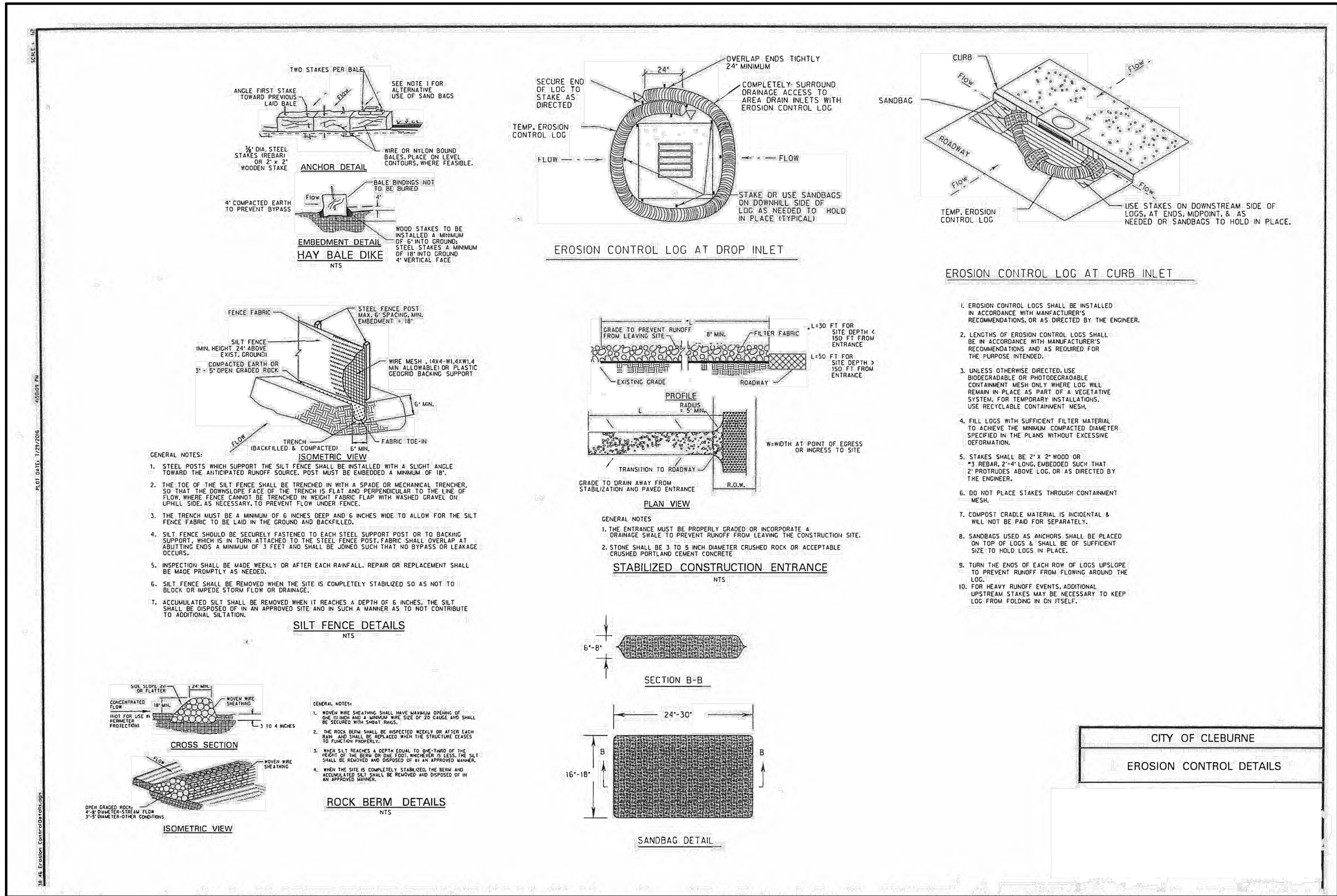
COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS
EROSION CONTROL PLAN

PLAT NO.	N/A
JOB NO.	61405-01
DATE	1/28/2025
DESIGNER	CL
CHECKED	AR
DRAWN	SM
SHEET	4

UTILITY NOTE
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ISSUED FOR CONSTRUCTION SET



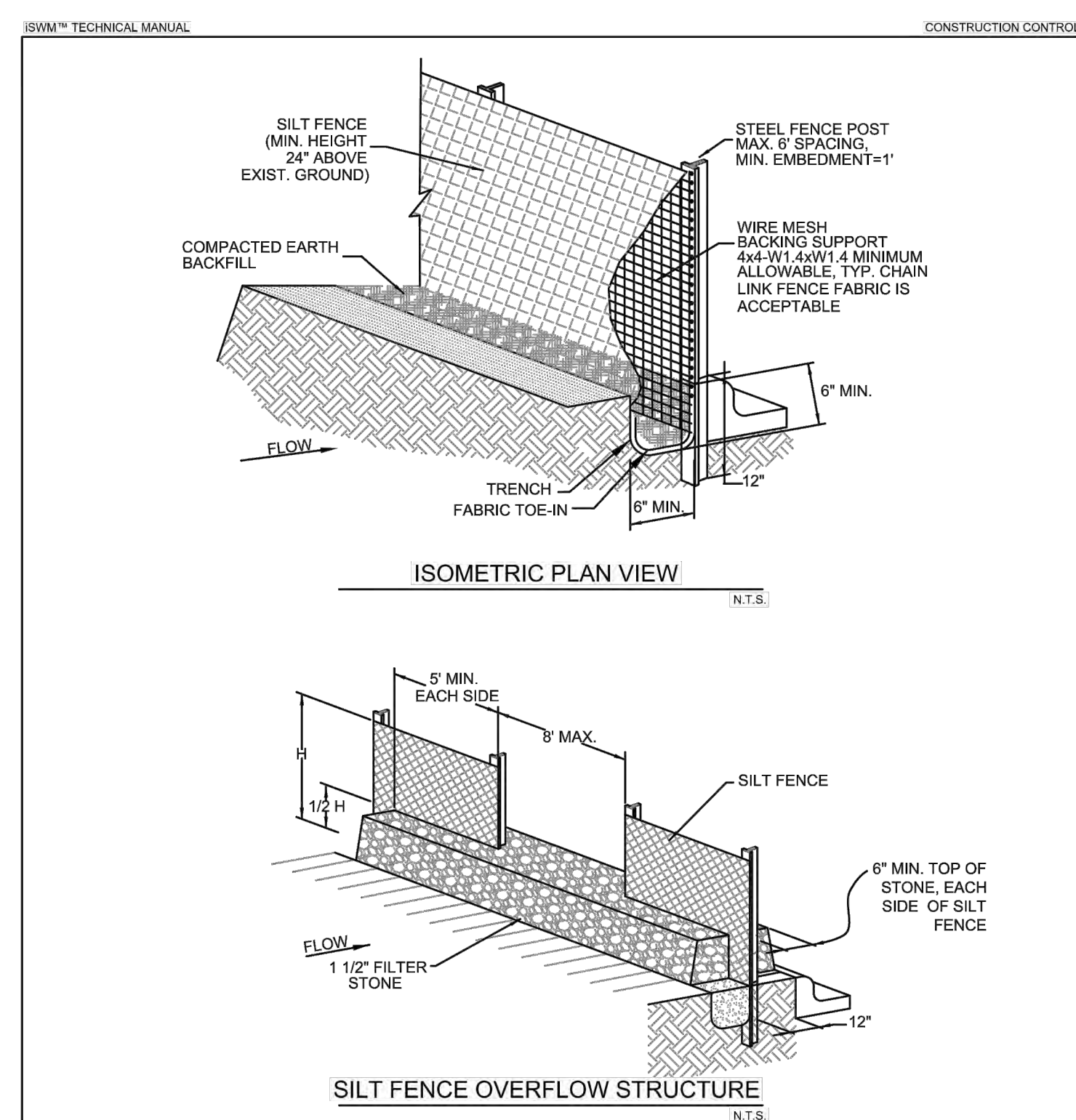


FIGURE 3.28 STANDARD CONSTRUCTION DETAIL - FOR SILT FENCE (1 OF 2)

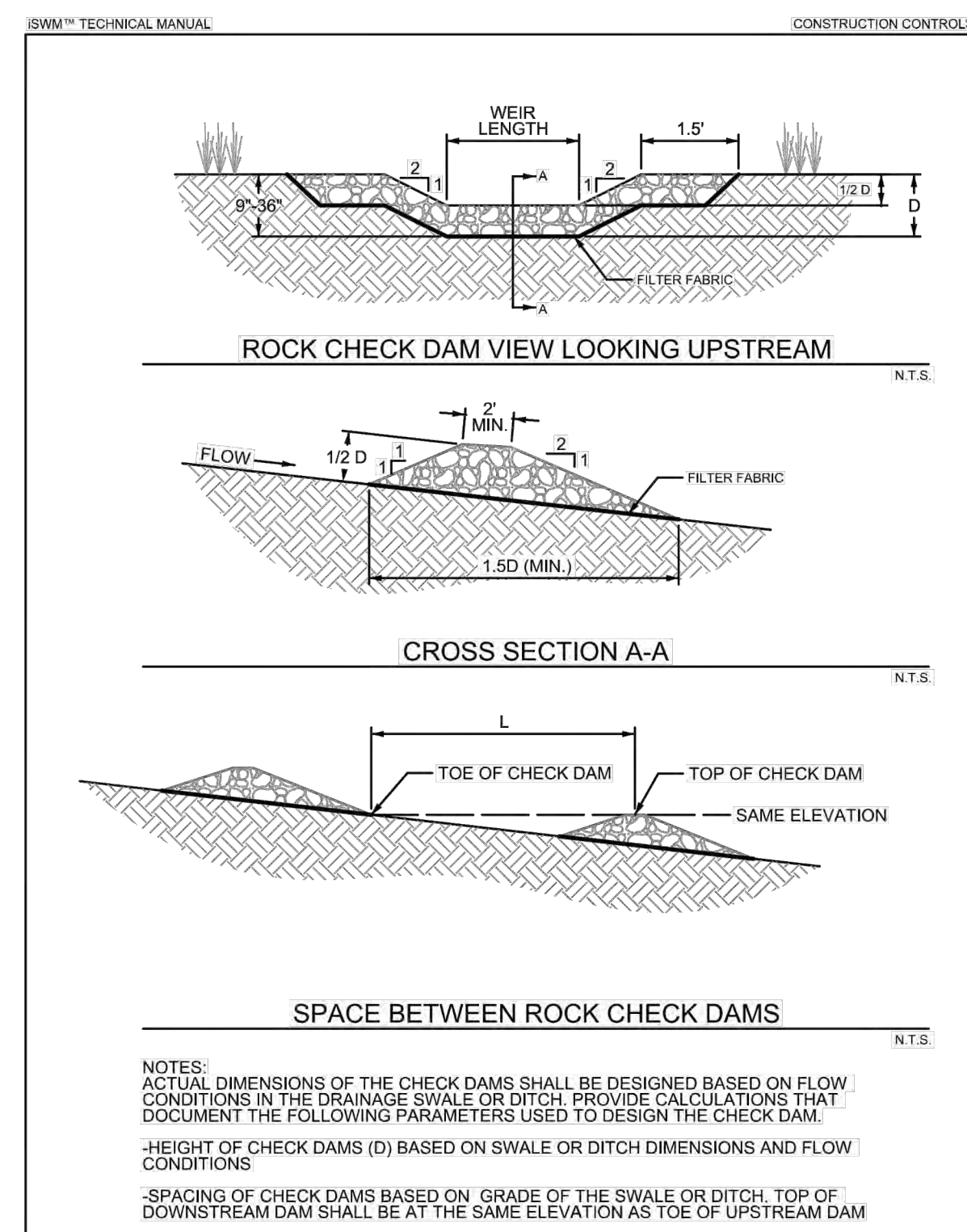


FIGURE 2.1 STANDARD CONSTRUCTION DETAIL - ROCK CHECK DAMS (1 OF 2)

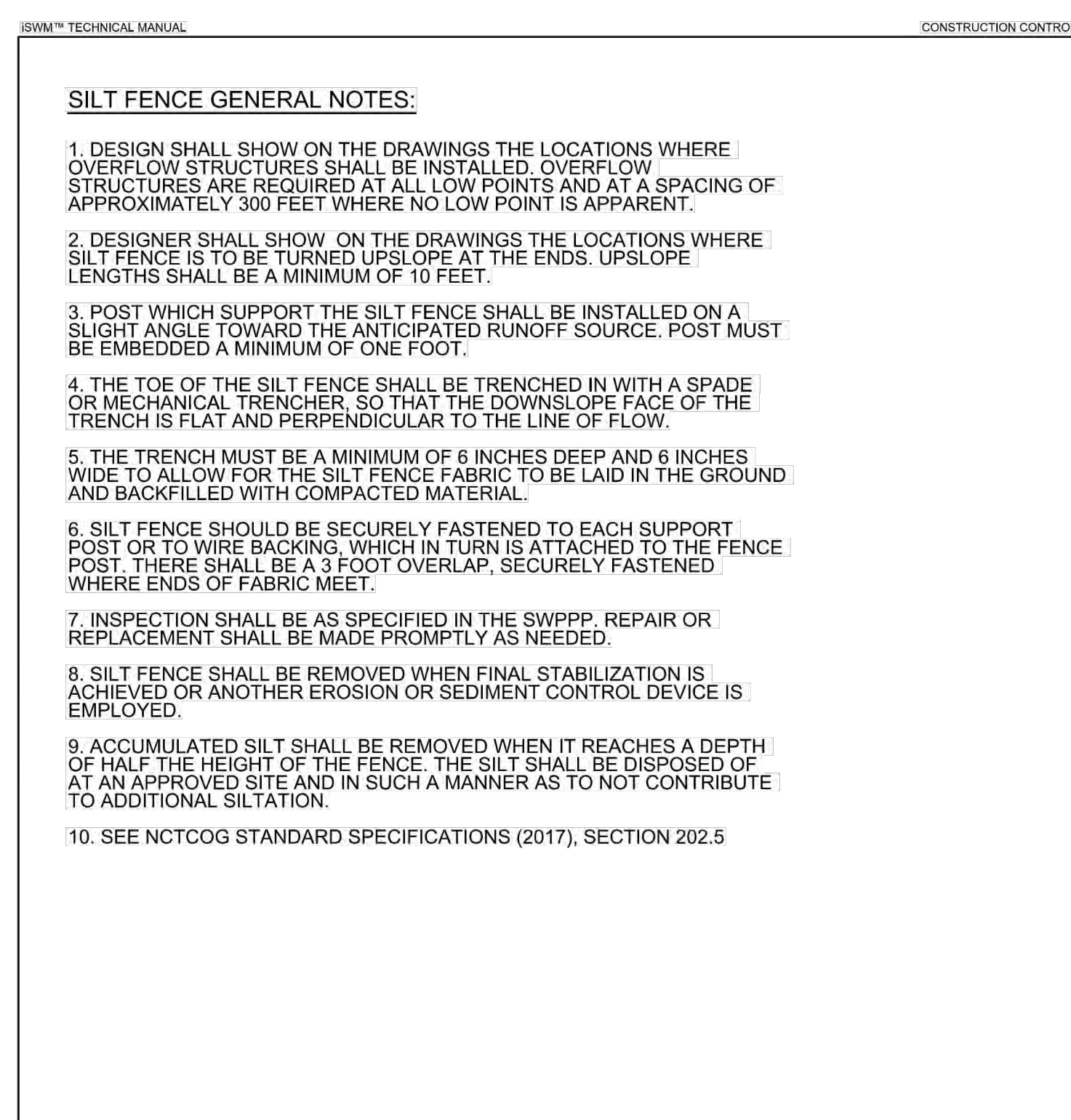


FIGURE 3.28 NOTES FOR SILT FENCE (2 OF 2)

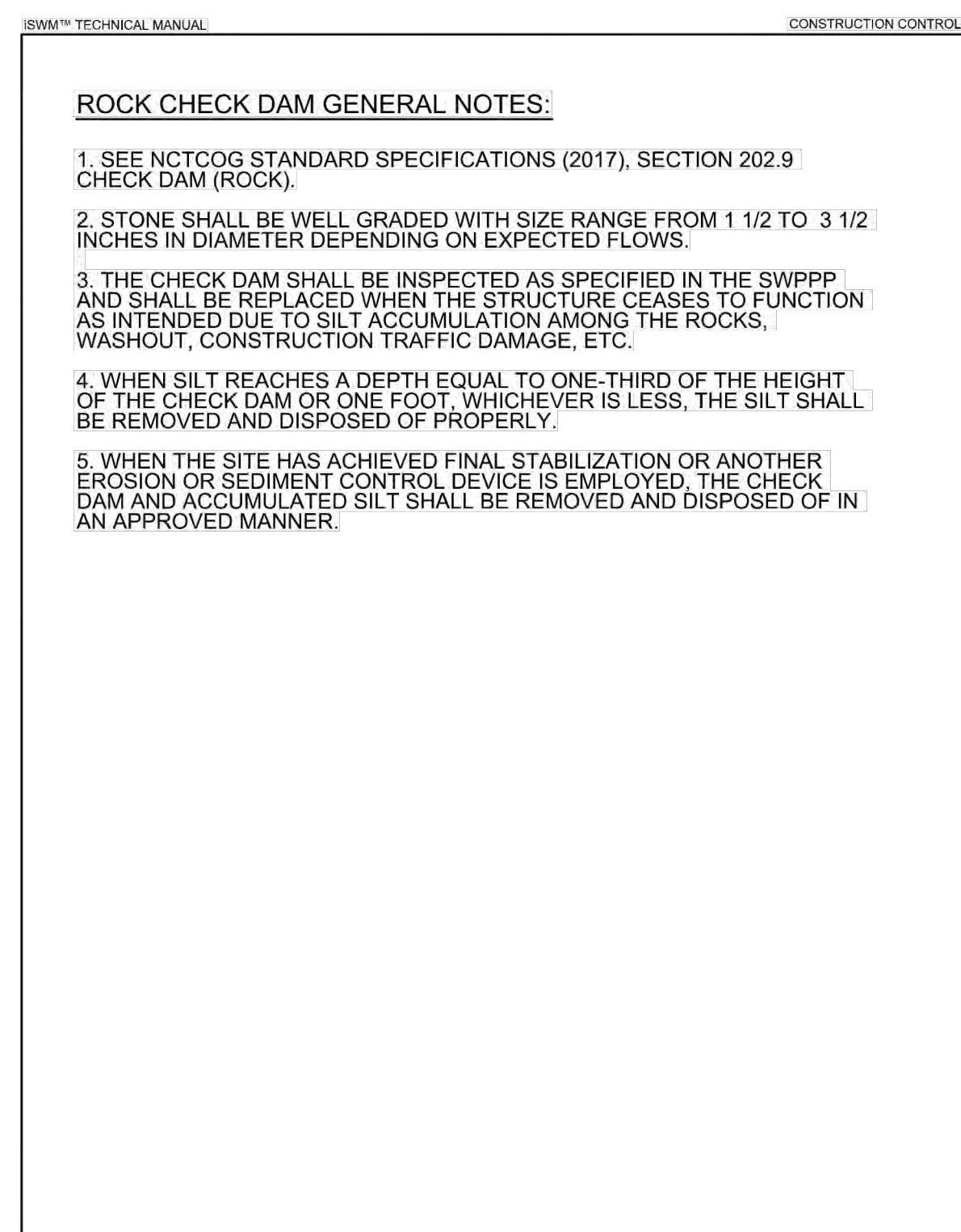


FIGURE 2.1 NOTES ON ROCK CHECK DAM (2 OF 2)

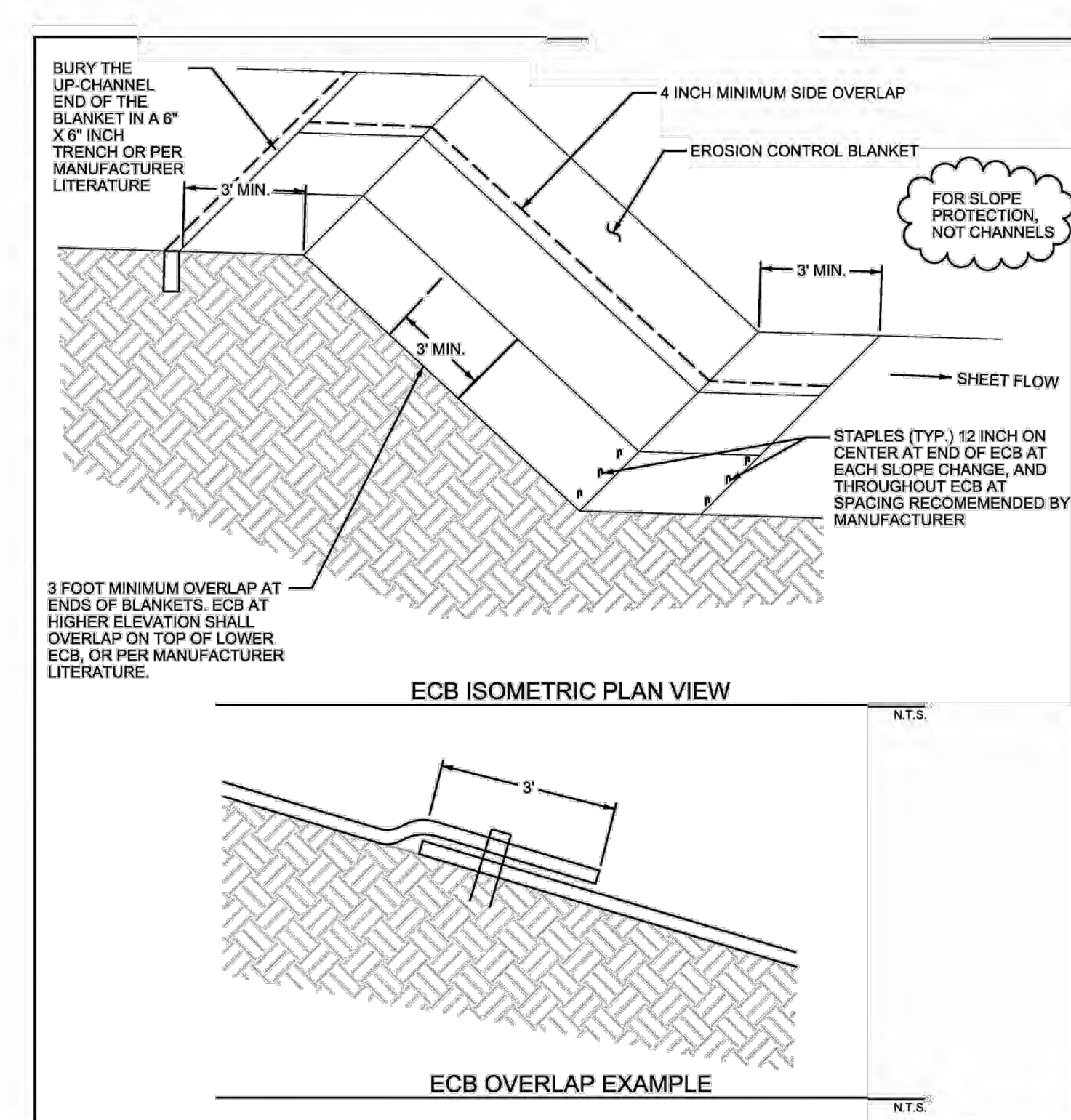


FIGURE 2.7 STANDARD CONSTRUCTION DETAIL -
TEMPORARY EROSION CONTROL BLANKETS (1 OF 2)

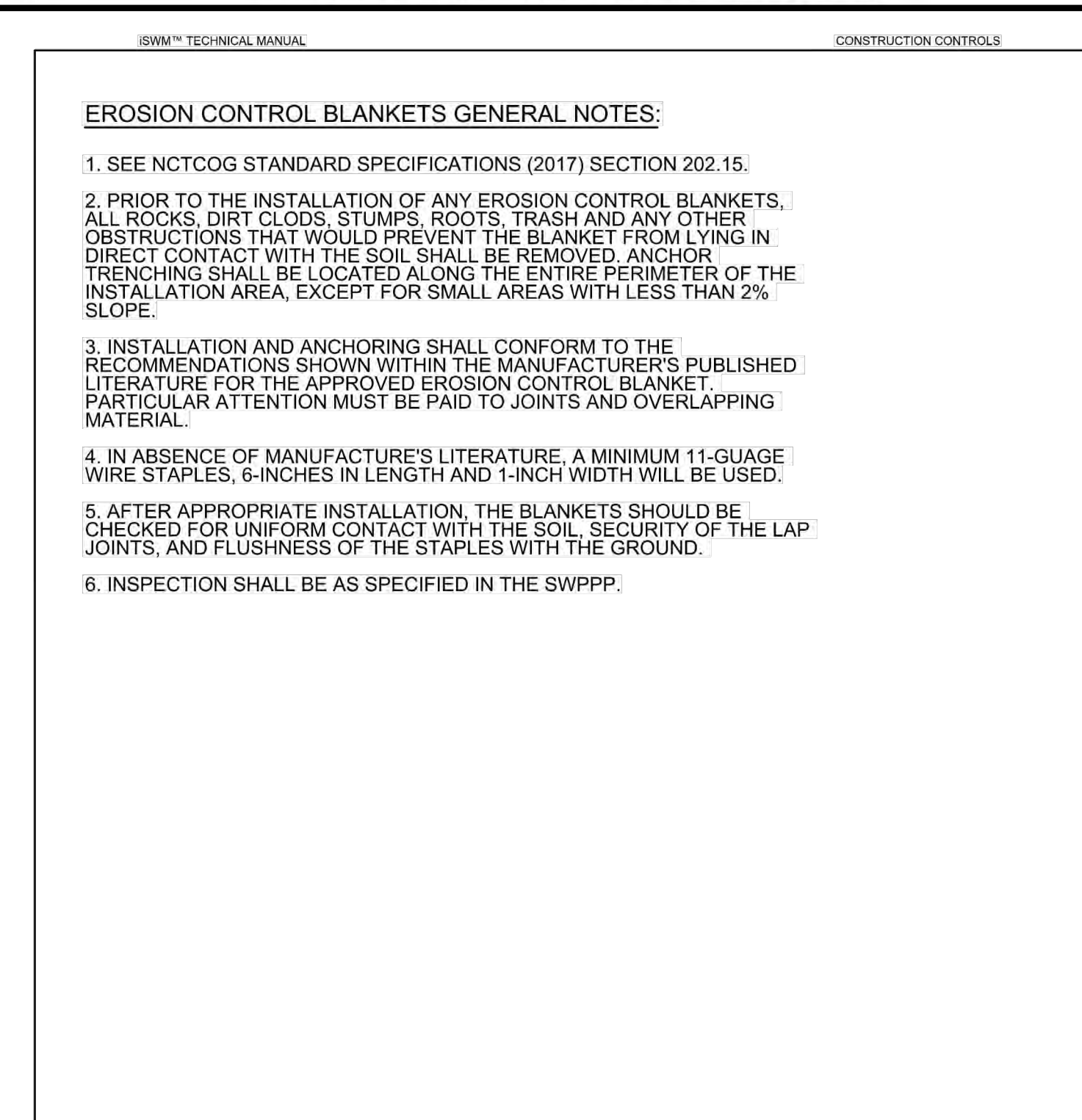
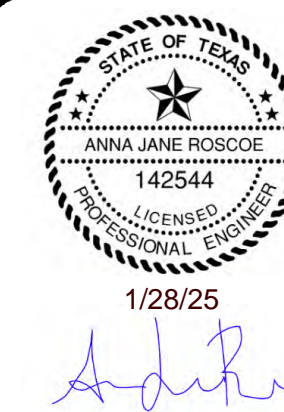


FIGURE 2.7 NOTES ON TEMPORARY EROSION CONTROL BLANKETS (2 OF 2)

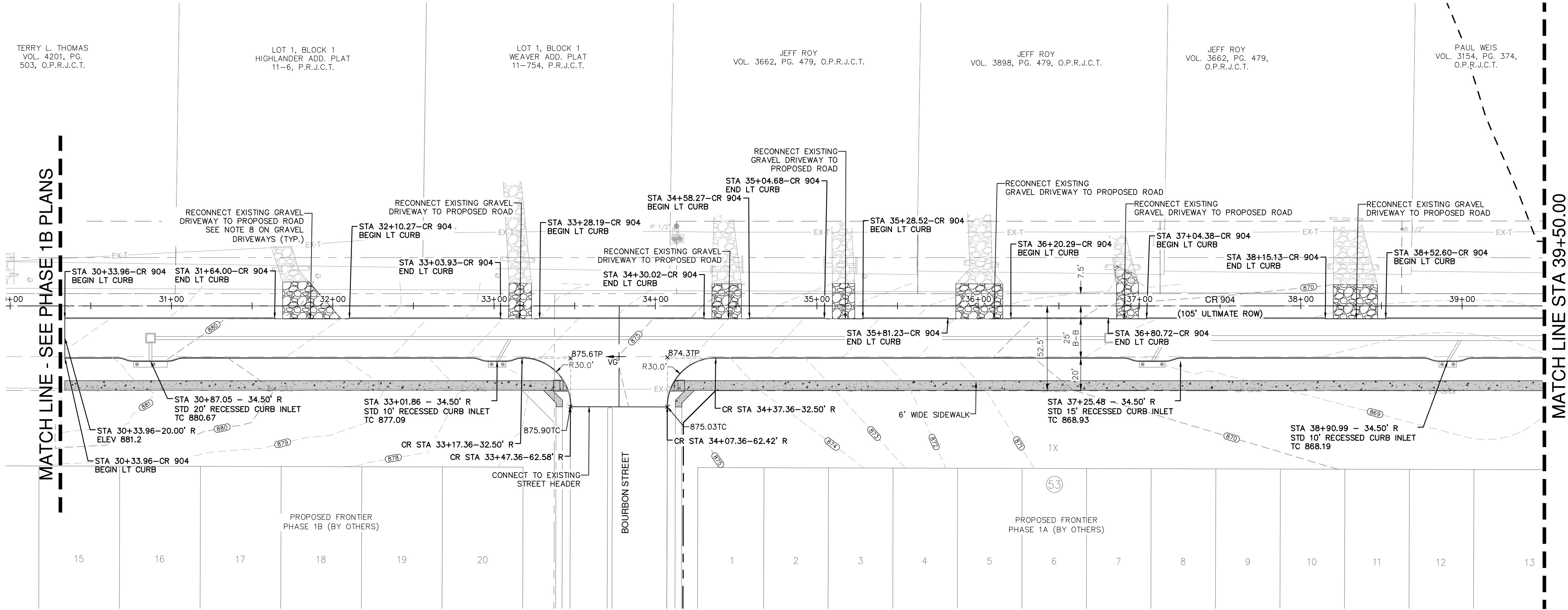
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COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS
EROSION CONTROL DETAILS

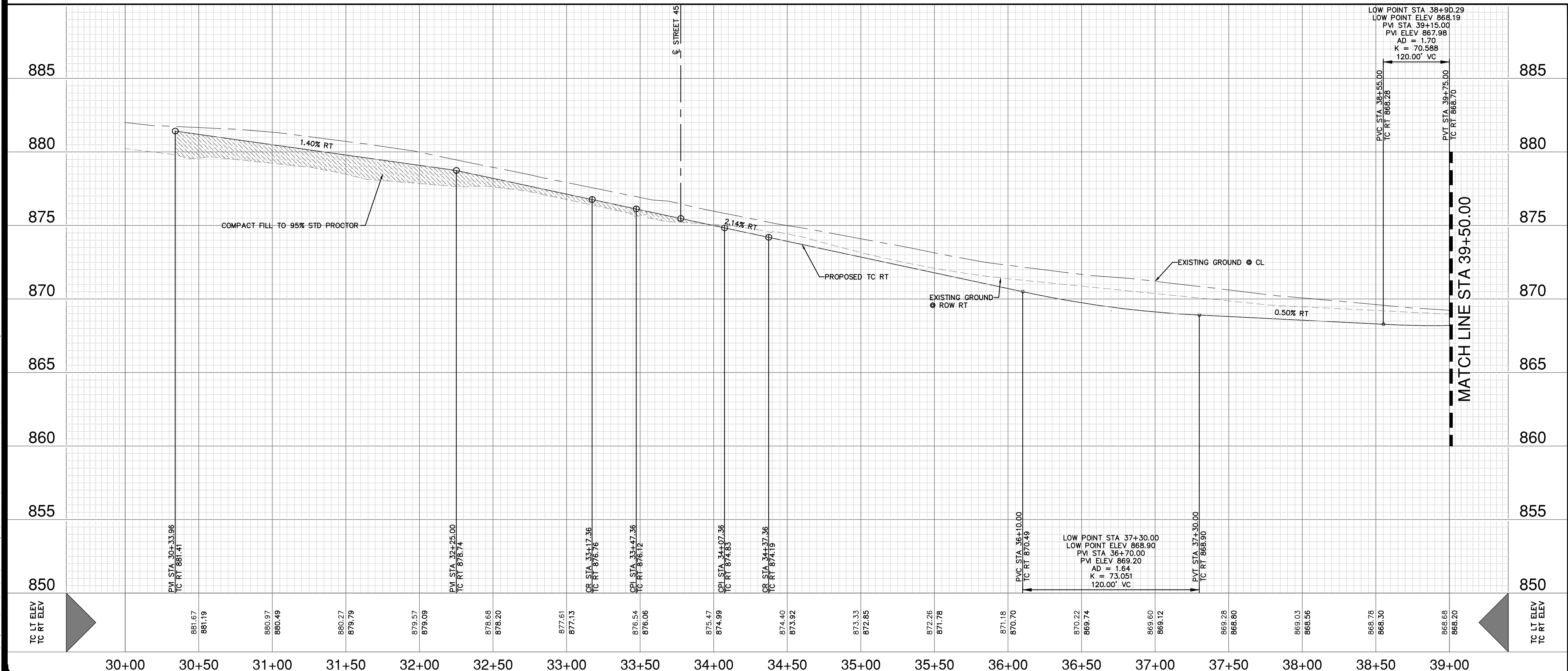
PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 6

Date: Jun 29, 2025, 2:34pm User ID: AROSCOE
File: S:\Projects\614\05\01\2.0 Design\2.4 Civil\2.4.3 Plan Sheets\ST-6140501-CR904.dwg
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DESIGN SPEED 40 MPH
CR 904
(STA 30+33.96 TO 39+50.00)

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



NOTES

- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND WILL BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
- ALL CURB RADII SHALL BE 30' TO BACK OF CURB UNLESS OTHERWISE NOTED.
- SIDEWALK/TRAILS IN COMMON AREAS SHALL BE BUILT AT TIME OF PUBLIC IMPROVEMENTS.
- CONCRETE PAVEMENT SHALL BE MACHINE PLACED EITHER BY MECHANICAL VIBRATORY SCREED OR SLIP FORM PAVEMENT UNLESS OTHERWISE APPROVED BY CITY.
- CONTRACTOR TO TURN DOWN CURB AND CONNECT TO EXISTING DRIVEWAY LOCATIONS (SEE DETAIL ON SHEET 22)
- AT LEAST SIX (6) INCHES OF FLEXIBLE BASE MATERIAL TO BE INSTALLED FOR THE GRAVEL PRIVATE DRIVEWAYS. PRIOR TO PLACEMENT OF THE FLEXIBLE BASE MATERIAL, THE EXPOSED SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES AND COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) AND WITHIN THE RANGE OF 0 TO 4 PERCENTAGE POINTS ABOVE THE MATERIAL'S OPTIMUM MOISTURE CONTENT. (UES REPORT NO. W232725-2-REV1, 01/22/25)
- FOR THE CONCRETE TRANSITIONS AND PRIVATE DRIVEWAYS CONSISTING OF UNREINFORCED CONCRETE, RECOMMEND AT LEAST 6 INCHES OF PORTLAND CEMENT CONCRETE. PCC SHOULD HAVE A MINIMUM 3,600 PSI COMPRESSIVE STRENGTH AT 28 DAYS. PRIOR TO PLACEMENT OF THE PCC, THE EXPOSED SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES AND COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) AND WITHIN THE RANGE OF 0 TO 4 PERCENTAGE POINTS ABOVE THE MATERIAL'S OPTIMUM MOISTURE CONTENT. (UES REPORT NO. W232725-2-REV1, 01/22/25)

UTILITY NOTE

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BENCHMARKS

CP#1	CP#2	CP#3	CP#4	CP#5
HUB 1/2" IR N: 6838620.362 E: 2298097.180 ELEV: 876.109	HUB 60D NAIL N: 6838595.465 E: 2298117.060 ELEV: 876.579	HUB 1/2" IR N: 6842154.006 E: 2301645.519 ELEV: 861.768	HUB 1/2" IR N: 6841086.582 E: 2298098.802 ELEV: 861.768	HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768

LEGEND

	PROPOSED CONCRETE SIDEWALK BY DEVELOPER (THIS CONTRACT)
	VALLEY GUTTER
	GRAVEL PAVEMENT

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

PAVING PLAN & PROFILE
CR 904

PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 7

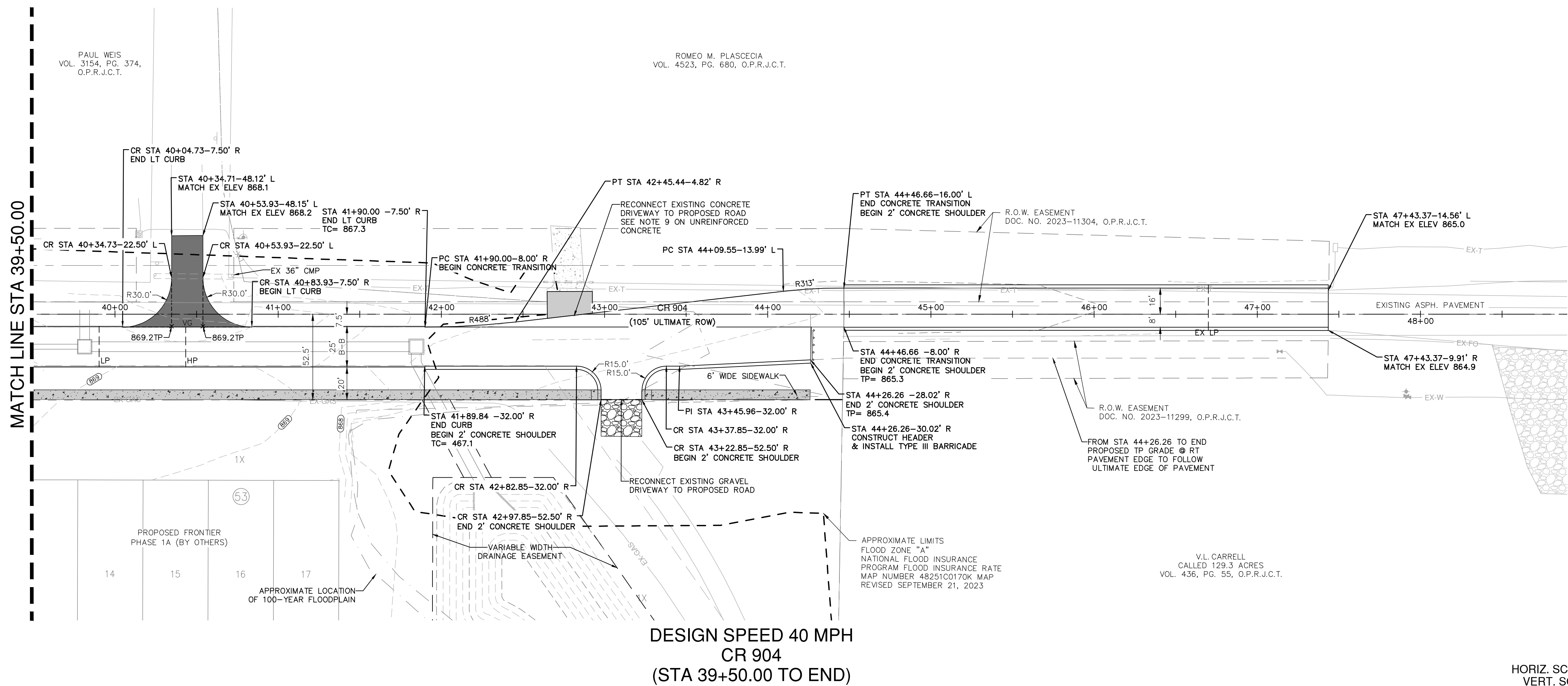
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ENGINEERS
6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

STATE OF TEXAS
ANNA JANE REISCH
142544
1/28/25

NO.	REVISION	DATE

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NO. REVISION

DATE

1/28/25

142544

1/28/25

1/28/25

PAPE-DAWSON
ENGINEERS

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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

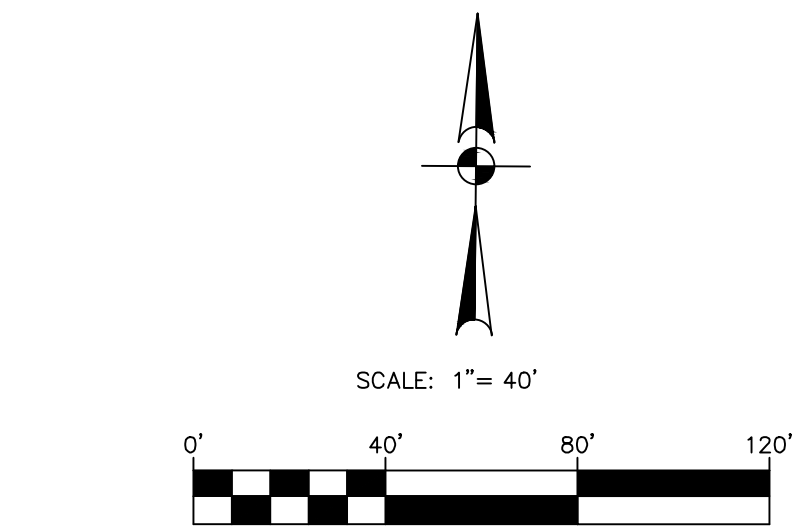
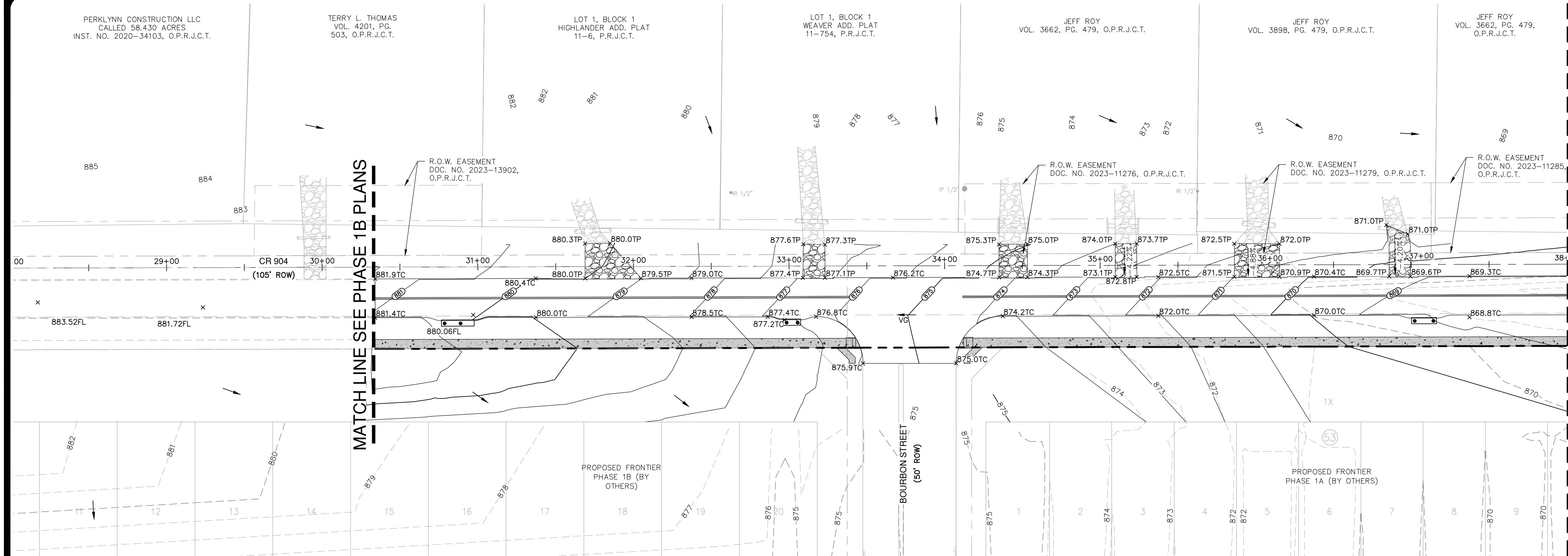
COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

PAVING PLAN & PROFILE
CR 904

PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 8

ISSUED FOR CONSTRUCTION SET

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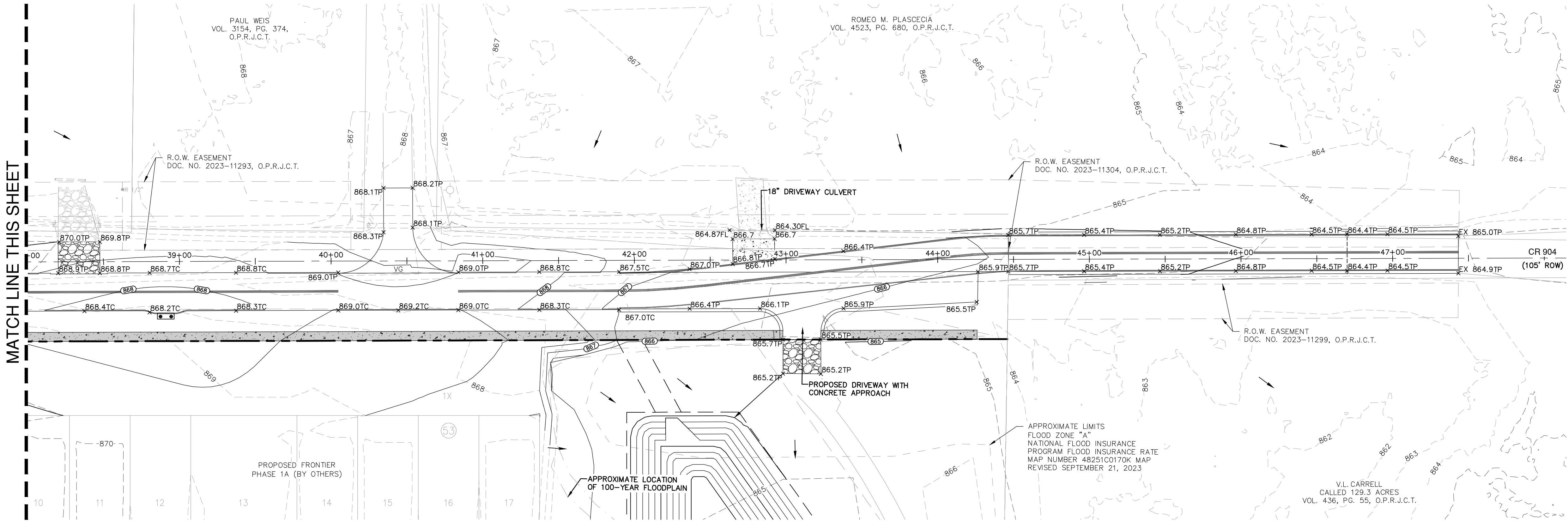


BENCHMARKS

CP#1 HUB 1/2" IR N: 6838595.465 N: 6842154.006 N: 6841086.582 N: 6842063.285
E: 2298097.190 E: 2298117.060 E: 2301451.505 E: 2301645.519 E: 2298098.802
ELEV: 876.109 ELEV: 876.579 ELEV: 861.768 ELEV: 861.768 ELEV: 861.768

LEGEND

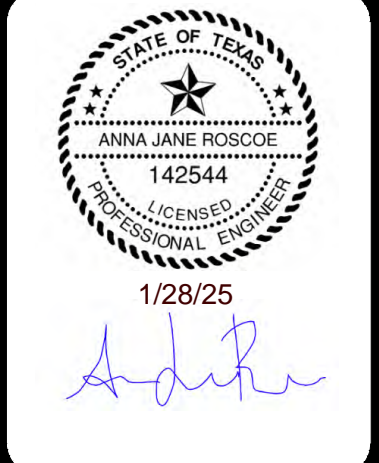
- 600 PROPOSED CONTOUR
- 600 EXISTING CONTOUR
- VG PROPOSED RETAINING WALL
- VG VALLEY GUTTER
- FG FLOW ARROW
- FG FINISHED GRADE
- TC TOP OF CURB
- TP TOP OF PAVEMENT
- FL FLOW LINE
- Gravel Pavement



UTILITY NOTE

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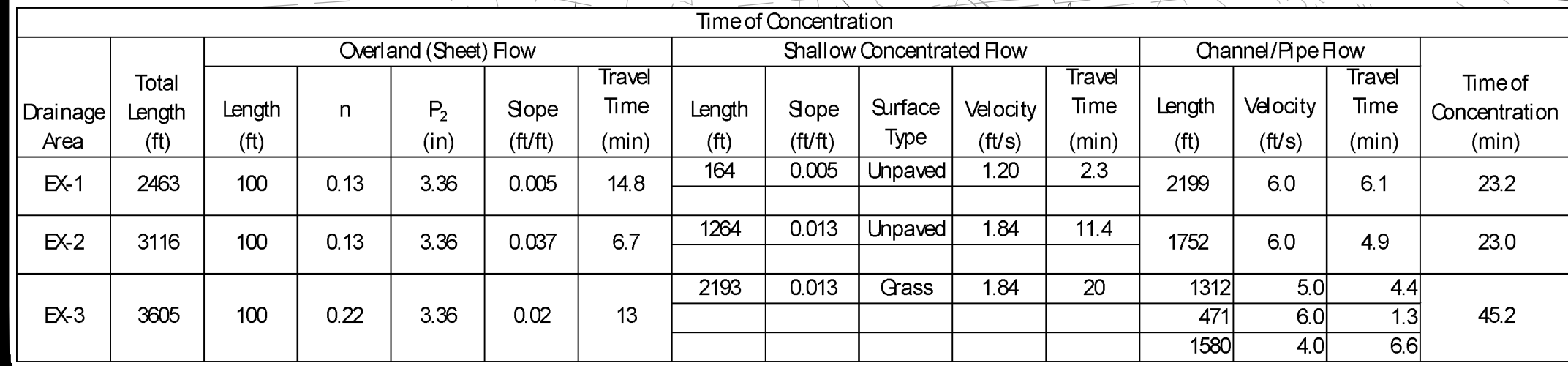
DATE
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ENGINEERS
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COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS
GRADING PLAN

PLAT NO.	N/A
JOB NO.	61405-01
DATE	1/28/2025
DESIGNER	CL
CHECKED	AR
DRAWN	SM
SHEET	9



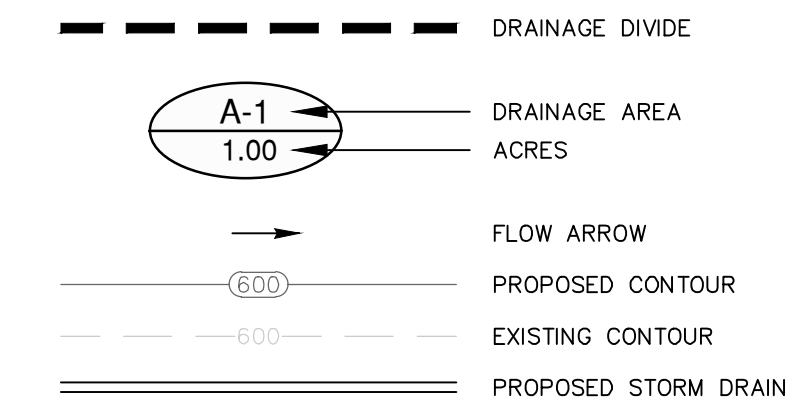
PRE-DEVELOPMENT DRAINAGE AREA CALCULATIONS										
Area No.	Area (ac)	Runoff Coeff.	CA	Tc (min)	I10 (in/hr)	I10 (cfs)	I25 (in/hr)	Q25* (cfs)	I100 (in/hr)	Q100* (cfs)
Onsite										
EX-1	35.72	0.45	16.07	23	4.80	77.16	5.75	92.43	6.75	108.50
EX-2	40.59	0.45	18.27	23	4.80	87.67	5.75	105.03	6.75	123.29
EX-3	69.60	0.45	31.32	45	3.50	109.62	4.25	133.11	5.00	156.60
SOIL GROUP CLASSIFICATION GROUP D										

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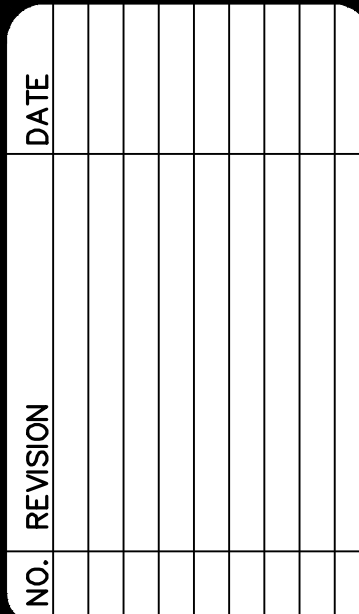
CP#1	CP#2	CP#3	CP#4	CP#5
HUB 1/2" IR	HUB 60D NAIL	HUB 1/2" IR	HUB 1/2" IR	HUB 1/2" IR
N: 6838620.362	N: 6838595.465	N: 6842154.006	N: 6841086.582	N: 6842063.28
E: 2298097.190	E: 2298117.060	E: 2301451.505	E: 2301645.519	E: 2298098.80
ELEV: 876.109	ELEV: 876.579	ELEV: 861.768	ELEV: 861.768	ELEV: 861.768

LEGEND



NOTES:

1. EASTERN DRAINAGE BOUNDARY FOR EX-1 IS BASED ON FINAL DRAINAGE REPORT COMPLETED ON 10/18/2024



1/28/25

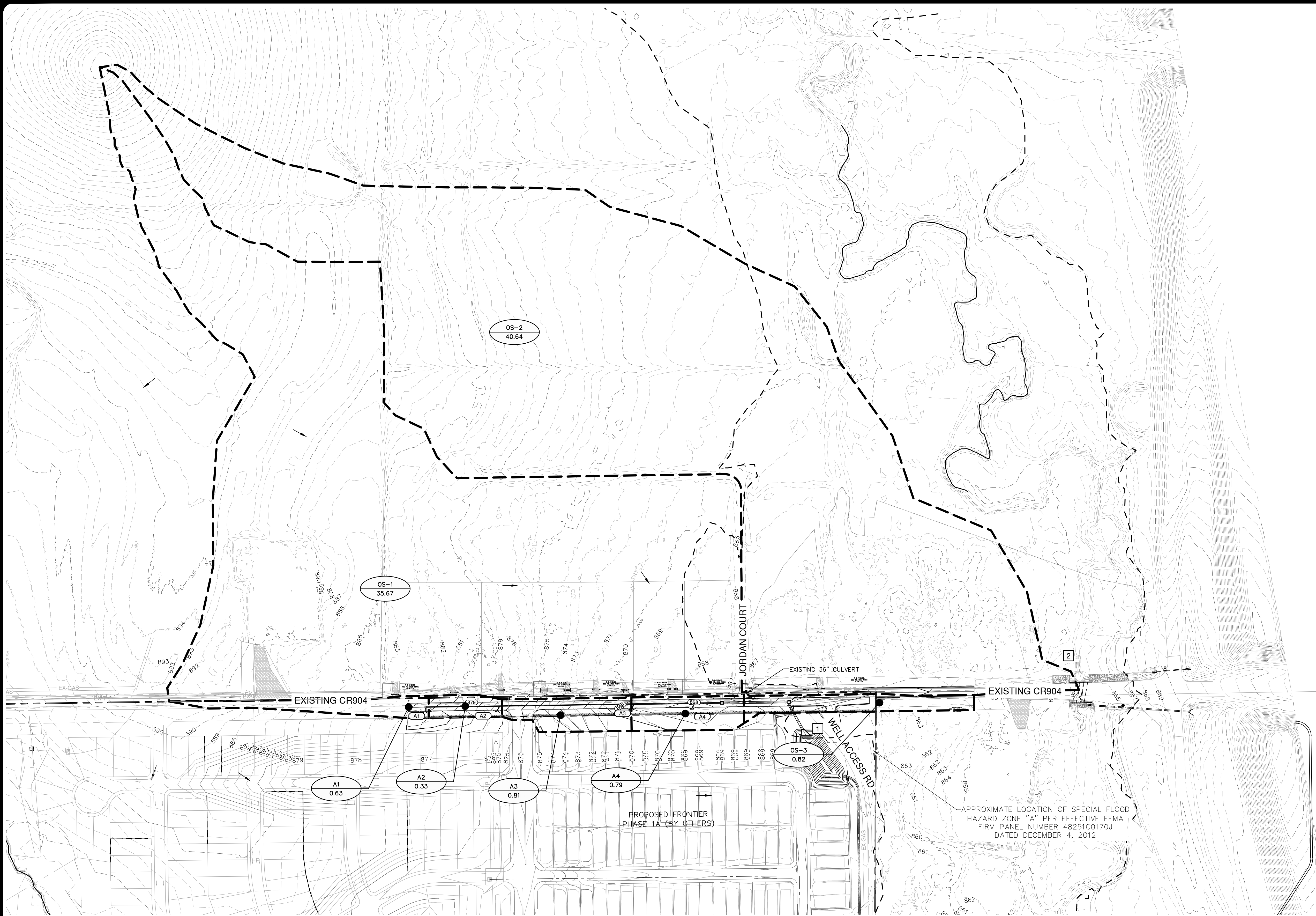
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ENGINEERS**

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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS
EXISTING DRAINAGE AREA MAP

PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 10

Date: Jan 28, 2025, 2:36pm User ID: AR05C0E
File: S:\Projects\614\05\01\2.4 CIV\2.4.3 Plan Sheets\PDMA-6142501.dwg



BENCHMARKS

CP#1	CP#2	CP#3	CP#4	CP#5
HUB 1/2" IR N: 6838595.465 E: 2298097.190 ELEV: 876.109	HUB 60D NAIL N: 6842154.006 E: 2301451.505 ELEV: 876.579	HUB 1/2" IR N: 6841086.582 E: 2301645.519 ELEV: 861.768	HUB 1/2" IR N: 6841086.582 E: 2301645.519 ELEV: 861.768	HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768

LEGEND

- DRAINAGE DIVIDE
- A-1
1.00 DRAINAGE AREA
ACRES
- 1 DESIGN POINT
- FLOW ARROW
- 600 PROPOSED CONTOUR
- 600 EXISTING CONTOUR
- PROPOSED STORM DRAIN

NOTES:

- CALCULATIONS FOR TC FOUND ON ULTIMATE DA MAP ON SHEET 12.

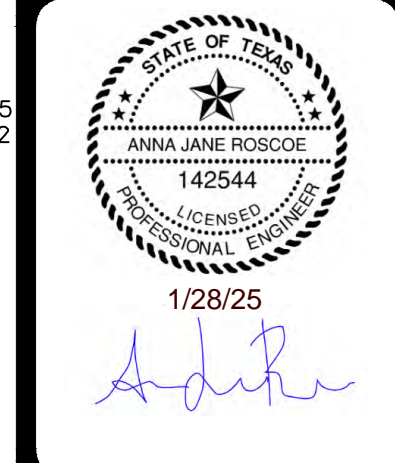
POST-DEVELOPMENT DRAINAGE AREA CALCULATIONS													
Design Point	Area No.	Area (ac)	Runoff Coeff.	CA	Tc (min)	I5 (in/hr)	q5 (cfs)	I10 (in/hr)	Q10 (cfs)	I25 (in/hr)	Q25* (cfs)	I100 (in/hr)	Q100* (cfs)
1	Onsite												
	A1	0.63	0.90	0.57	10	6.00	3.40	6.60	3.74	7.60	4.31	9.00	5.10
	A2	0.33	0.90	0.30	10	6.00	1.78	6.60	1.96	7.60	2.26	9.00	2.67
	A3	0.81	0.90	0.73	10	6.00	4.37	6.60	4.81	7.60	5.54	9.00	6.56
2	A4	0.79	0.90	0.71	10	6.00	4.27	6.60	4.69	7.60	5.40	9.00	6.40
	OS-1	35.67	0.45	16.05	23	4.30	59.02	4.80	77.05	5.75	92.30	6.75	108.35
	OS-2	40.63	0.45	18.28	23	4.30	78.62	4.80	87.76	5.75	105.13	6.75	123.41
	OS-3	0.82	0.90	0.74	10	6.00	4.83	6.60	4.87	7.60	5.61	9.00	6.64
	Design Point 1	2.56	0.90	2.30	10	6.00	13.83	6.60	15.21	7.60	17.51	9.00	20.74
	Design Point 2	76.30	0.45	34.34	23	4.30	147.64	4.80	164.81	5.75	197.43	6.75	231.76
	TOTAL	78.86							180.01		214.94		0.00

SOIL GROUP CLASSIFICATION GROUP D

UTILITY NOTE

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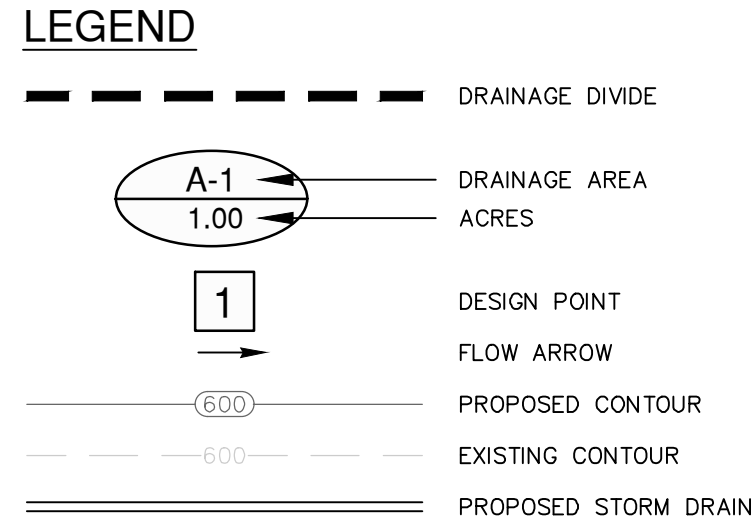
NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS
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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS
PROPOSED DRAINAGE AREA MAP

PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 11



Time of Concentration															
Drainage Area	Total Length (ft)	Overland (Sheet) Flow					Shallow Concentrated Flow					Channel/Pipe Flow			Time of Concentration (min)
		Length (ft)	n	P ₂ (in)	Slope (ft/ft)	Travel Time (min)	Length (ft)	Slope (ft/ft)	Surface Type	Velocity (ft/s)	Travel Time (min)	Length (ft)	Velocity (ft/s)	Travel Time (min)	
OS-1	1382	100	0.13	3.36	0.005	14.8	164	0.005	Unpaved	1.20	2.3	1118	6.0	3.1	20.2
OS-2	1273	100	0.13	3.36	0.021	8.4	988	0.014	Unpaved	1.89	8.7	185	6.0	0.5	17.6
OS-3	3116	100	0.13	3.36	0.037	6.7	1264	0.013	Unpaved	1.84	11.4	1752	6.0	4.9	23.0

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ON-GRADE DEPRESSED CURB INLET CAPACITY CALCULATION TABLE																																	
Inlet			Drainage Area				Long Slope "S" (ft/ft)	Cross Slope of Pavement "Sw" (ft/ft)	Cross Slope of Gutter "Sv" (ft/ft)	Depth of Flow "Yo" (ft)	Spread of Flow "Tt" (ft)	Equivalent Cross Slope "Se" (ft/ft)	Street Section (type)	Manning's Coefficient Pavement n	5 Year Intensity (in/hr)	5 Year Runoff Flow (cfs)	5 Year Carry Over Flow (cfs)	5 Year Gutter Flow "Q" (cfs)	Full Width Street Capacity (cfs)	100 Year Intensity (in/hr)	100 Year Runoff Flow (cfs)	100 Year Carry Over Flow (cfs)	100 Year Gutter Flow "Q" (cfs)	Full Width R.O.W. Capacity (cfs)	Design Storm (5 yr or 100 yr)	Length Required "Lr" (ft)	Length Provided "Lp" (ft)	Efficiency "L/Lr" "E"	Inlet Capacity "Qi" (cfs)	5 Year Carry Over Flow "Qo" (cfs)	100 Year Carry Over Flow "Ql" (cfs)	Comments	
Design Point	Inlet No.	Station	Area No	Area (ac)	Runoff Coeff "C" (min)	Time of Concn. (min)																											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
1	A1		A1	0.95	0.93	10.0	0.050	0.02	0.18	0.18	9.1	0.10	Major Arterial (105)	0.013	6.00	5.1		5.1	129.9	9.00	7.7		7.7	326.9	100	30.54	20	0.65	85%	6.6	0.0	1.1	20' Curb Inlet
1	A2		A2	0.27	0.90	10.0	0.022	0.02	0.18	0.13	6.6	0.13	Major Arterial (105)	0.013	6.00	1.5		1.5	86.2	9.00	2.2	1.1	3.3	216.9	100	14.85	10	0.67	87%	2.9	0.0	0.4	10' Curb Inlet
1	A3		A3	0.81	0.90	10.0	0.008	0.02	0.18	0.24	12.1	0.09	Major Arterial (105)	0.013	6.00	4.4		4.4	52.0	9.00	6.6	0.4	7.0	330.8	100	18.95	15	0.79	94%	6.6	0.0	0.4	15' Curb Inlet

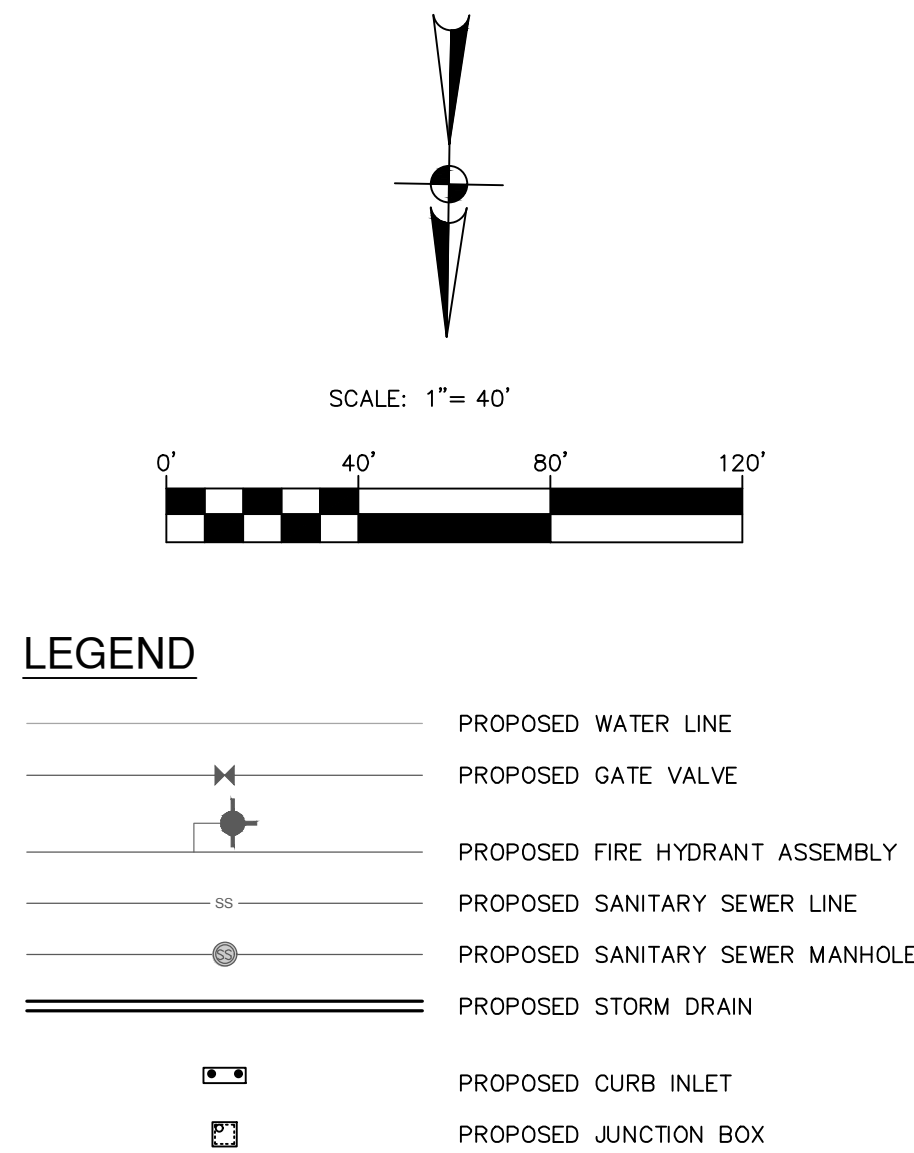
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COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

DRAINAGE & HYDRAULIC CALCULATIONS

ISSUED FOR CONSTRUCTION SET

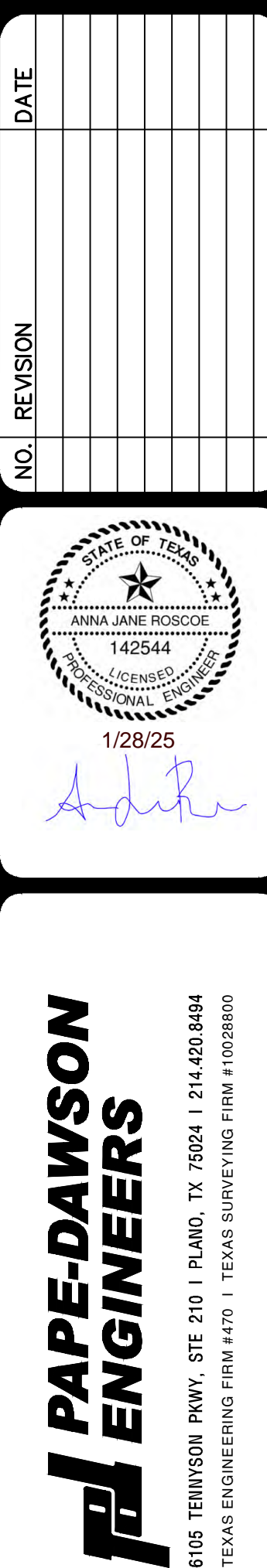
BEDDING GRADATIONS	
6" THICKNESS OF BEDDING	
SIEVE SIZE SQUARE MESH	PERCENT PASSING
3 INCH	100
1-1/2 INCH	55 - 100
3/4 INCH	25 - 60
3/8 INCH	5 - 30
NO. 4	0 - 10



NOTES:

1. NO DETENTION IS REQUIRED PER PAPE-DAWSON PRELIMINARY DRAINAGE & FLOODPLAIN STUDY DATED AUGUST 11, 2022.
2. 100 & 50-YR WSEL BASED ON PAPE-DAWSON DRAINAGE & FLOODPLAIN STUDY DATED OCTOBER 18, 2024.
3. JUNCTION BOX SPACING SET BASED ON JOHNSON COUNTY CRITERIA.

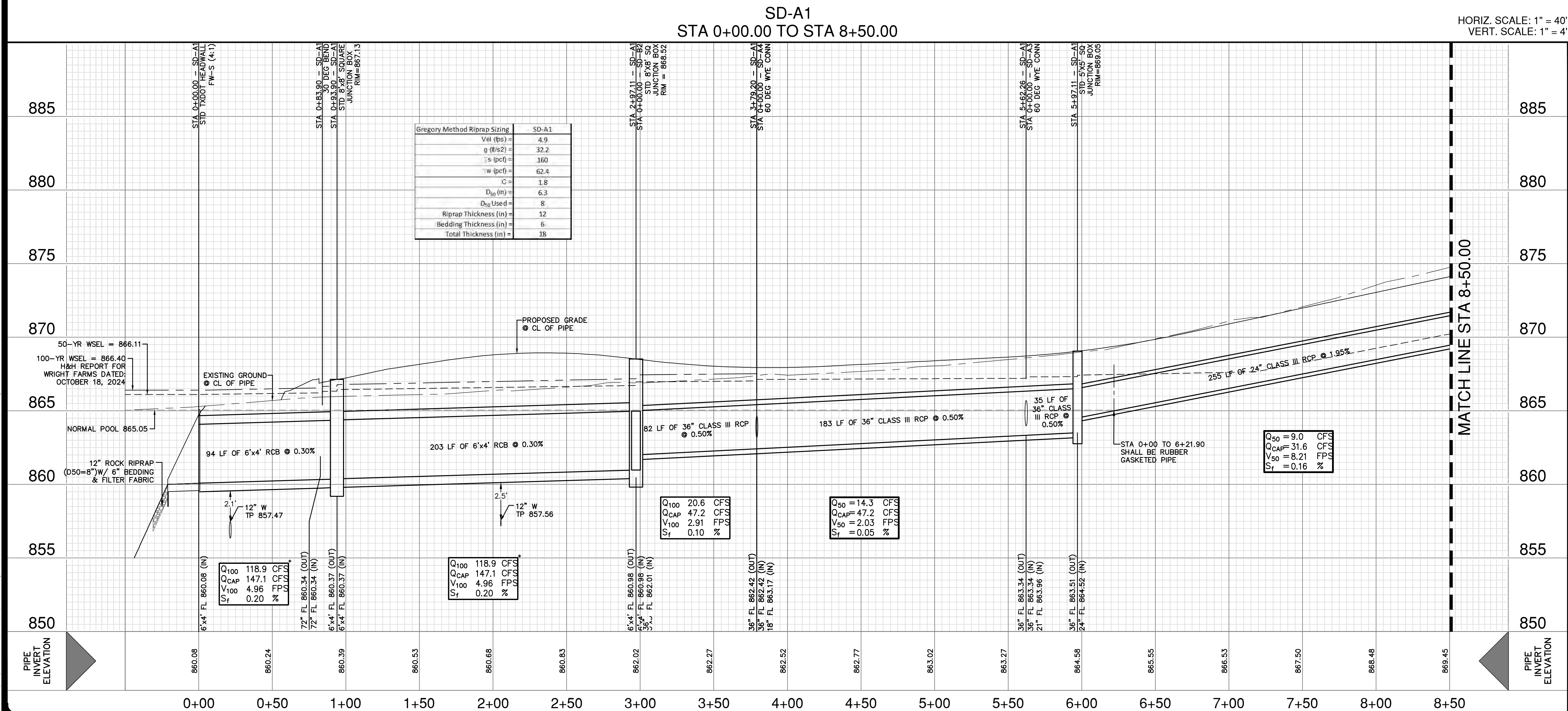
***FLOWS ARE BASED ON ULTIMATE CONDITIONS**



COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

STORM DRAIN PLAN & PROFILE
SD-A1

PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 14

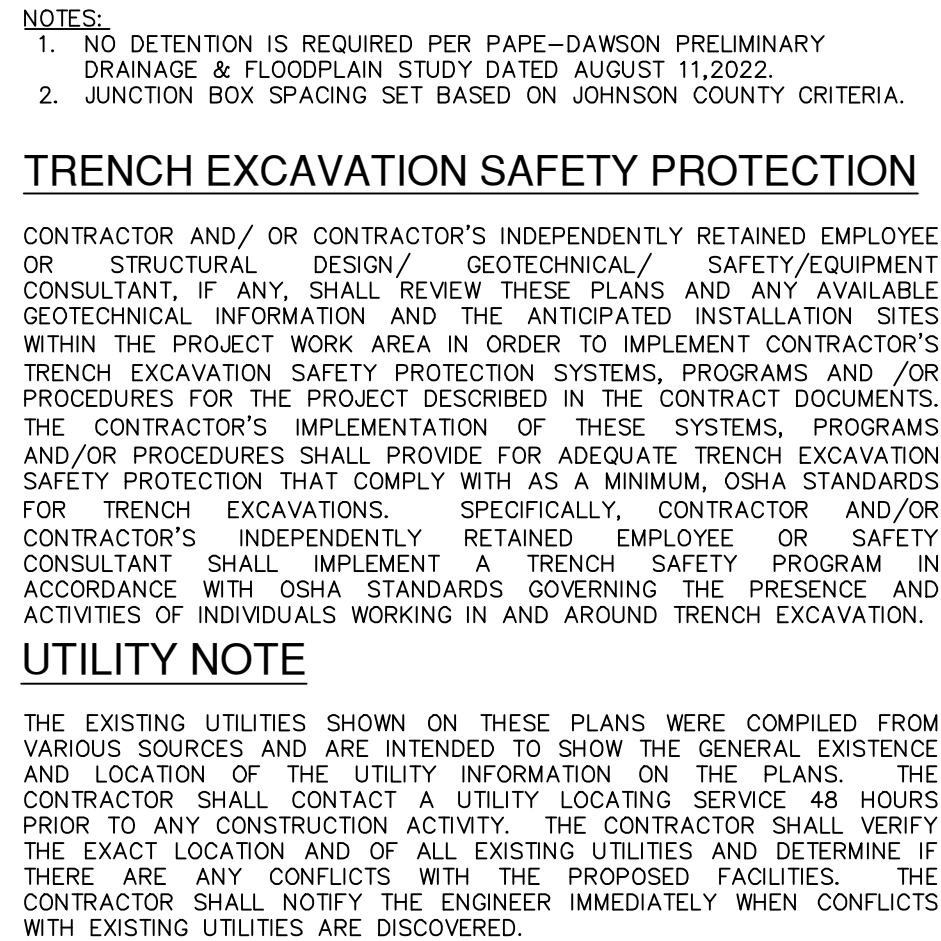


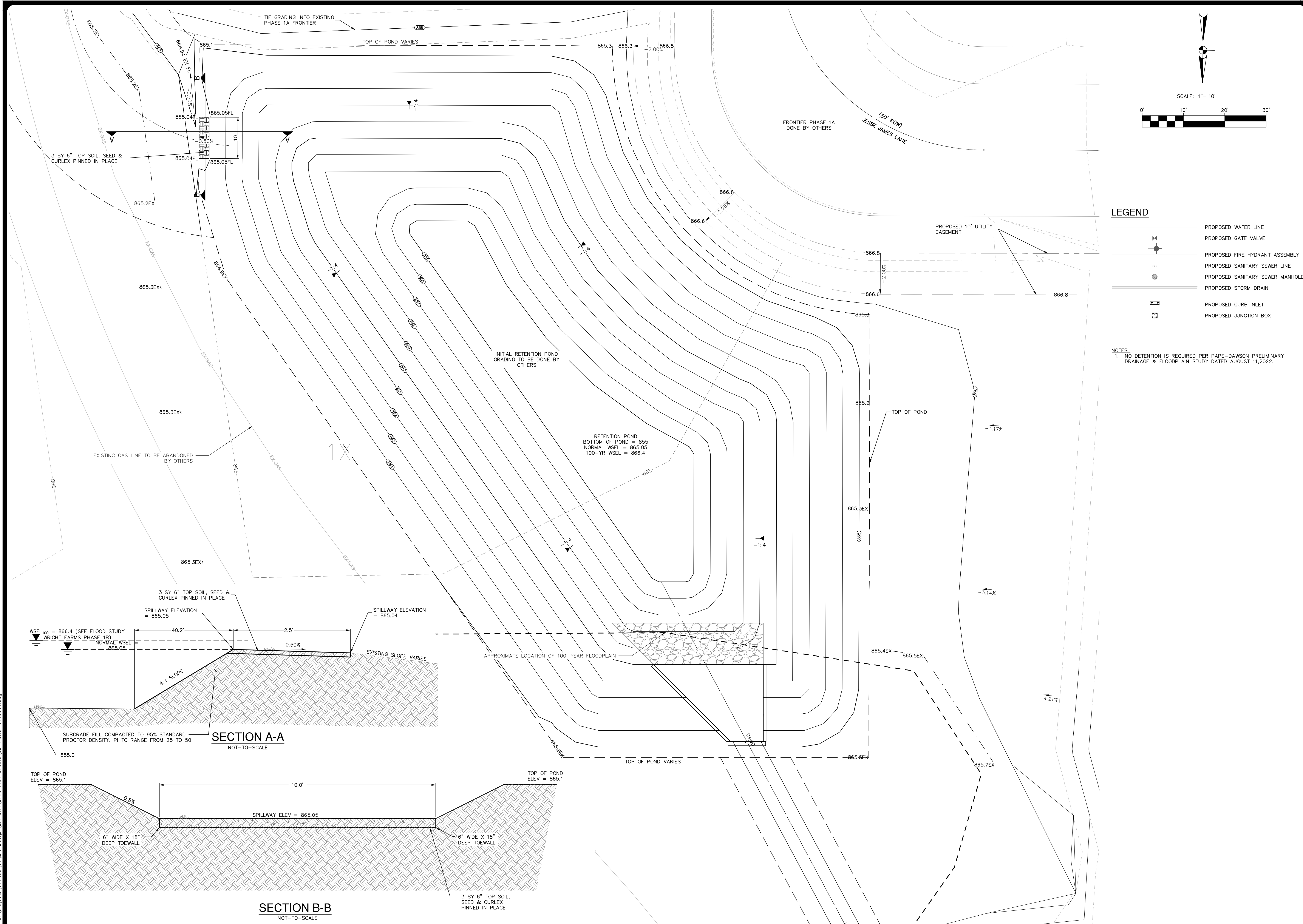
TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN, GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE RECORDS AND FIELD SURVEY DATA TO IDENTIFY THE PRESENCE OF UTILITIES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONSULTANT SHALL IMMEDIATELY NOTIFY THE EMPLOYER OF ANY UTILITY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

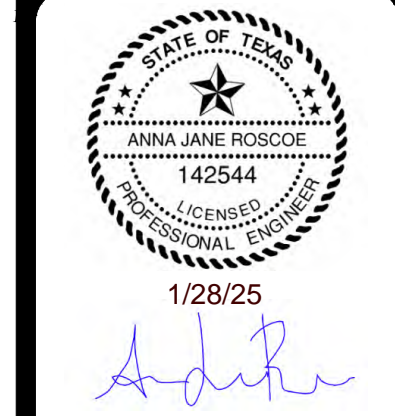
UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS BEFORE THE EXCAVATION OF ANY TRENCH TO IDENTIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.





NOTES:
1. NO DETENTION IS REQUIRED PER PAPE-DAWSON PRELIMINARY DRAINAGE & FLOODPLAIN STUDY DATED AUGUST 11,2022.

[illegible]

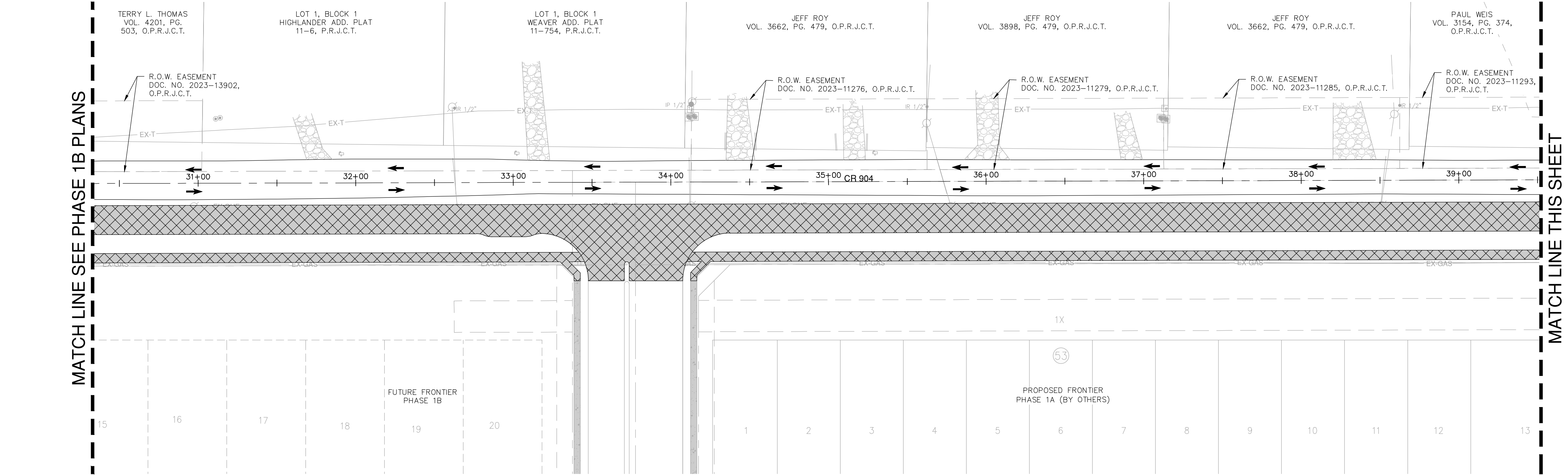
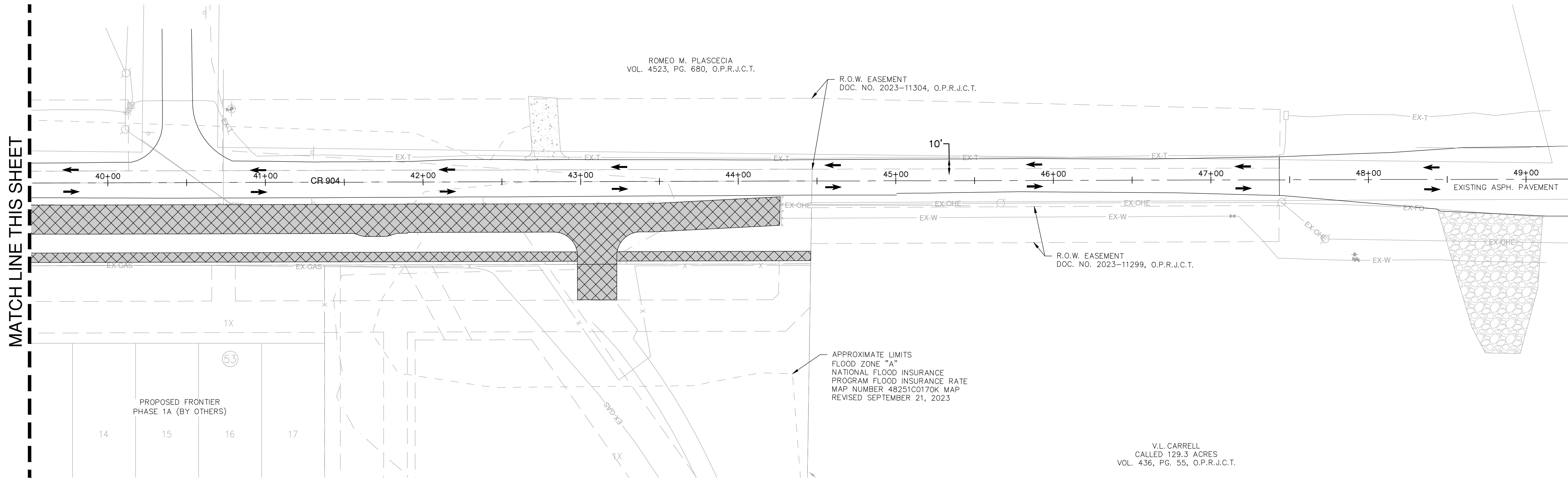
**PAPE-DAWSON
ENGINEERS**
6105 TENNISYON PKWY. STE 210 | PLANO, TX 75024 | 214.420.8484
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS
RETENTION POND PLAN

PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN CL
SHEET 17

Date: Jun 29, 2025, 2:39pm User ID: AR05C0E
File: S:\Projects\614\05\01\2.0 Design\2.4 Civil\2.4.3 Plan Sheets\PHAS 1-6140501.dwg

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NOTES

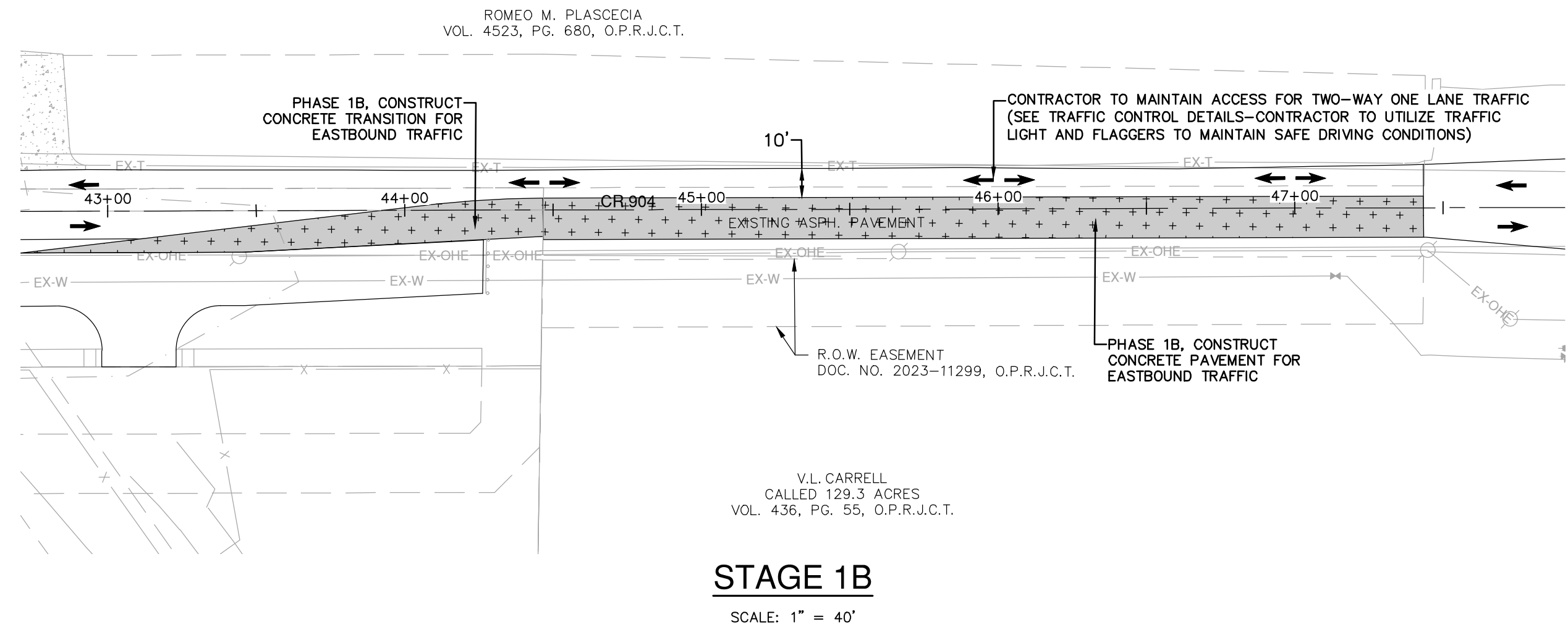
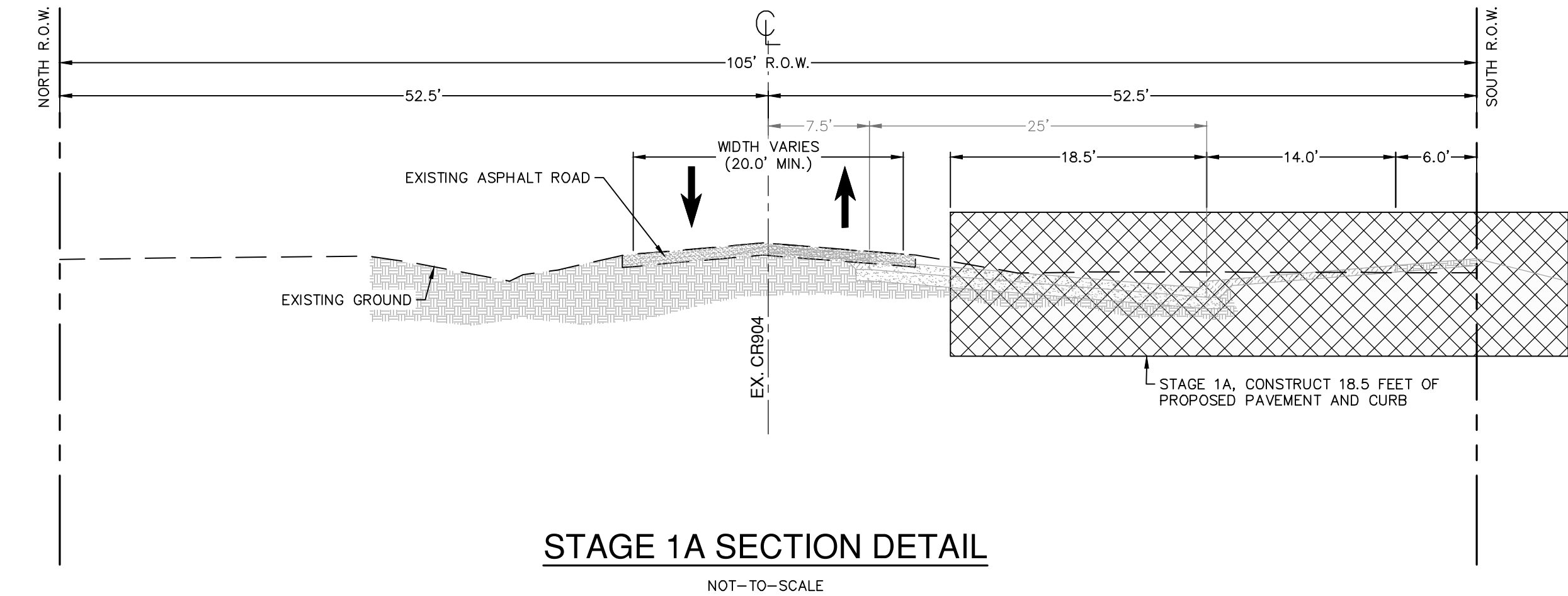
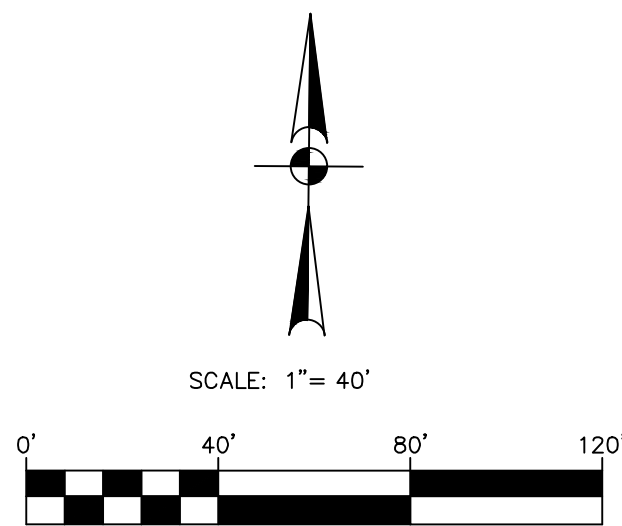
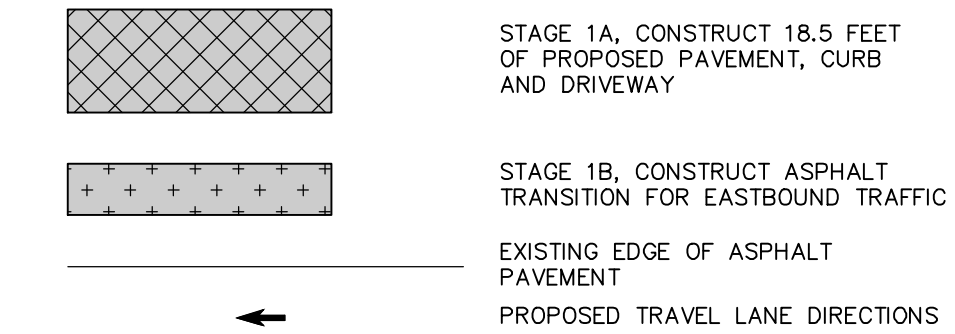
- MINIMUM OF ONE-LANE TWO-WAY TRAFFIC TO BE OPEN AT ALL TIMES WITH CHANNEL DEVICES WHERE CONNECTING TO EXISTING ASPHALT ROAD.
- STAGE 1A TRAFFIC SHALL CONTINUE ON EXISTING ASPHALT ROAD FOR EASTBOUND AND WESTBOUND DIRECTIONS.
- STAGE 1B, 2A & 2B TRAFFIC SHALL CONTINUE ON EXISTING ASPHALT ROAD FOR THE WESTBOUND DIRECTION AND ON PROPOSED CONCRETE ROAD FOR EASTBOUND DIRECTION.
- STAGE 3 TRAFFIC SHALL CONTINUE ONTO PROPOSED CONCRETE ROAD FOR BOTH EASTBOUND AND WESTBOUND DIRECTION.
- CONTRACTOR SHALL MAINTAIN HOME ACCESS THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PHASE DRIVEWAY AND ROAD CONSTRUCTION TO ACHIEVE FULL ACCESS AT ALL TIMES. CONTRACTOR SHALL USE TEMPORARY GRAVEL/FLEXBASE ROADS TO ACHIEVE ACCESS AS NECESSARY.

UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

BENCHMARKS

CP#1	CP#2	CP#3	CP#4	CP#5
HUB 1/2" IR N: 6838595.465 E: 2298097.190 ELEV: 876.109	HUB 60D NAIL N: 6842154.006 E: 2301645.519 ELEV: 876.579	HUB 1/2" IR N: 6841086.582 E: 2301645.519 ELEV: 861.768	HUB 1/2" IR N: 6841086.582 E: 2301645.519 ELEV: 861.768	HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768



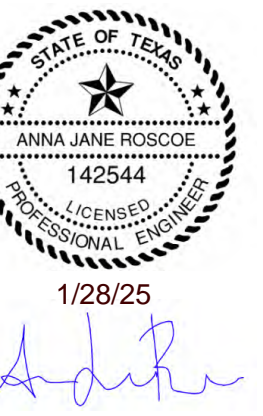
PAPE-DAWSON
ENGINEERS
6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8484
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS
STAGE 1A & 1B
CONSTRUCTION PHASING PLAN

PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER SM
CHECKED AR DRAWN SM
SHEET 18

ISSUED FOR CONSTRUCTION SET

THE CLIENT CONTRACTED WITH UES TO PREPARE A FINAL GEOTECHNICAL EXPLORATION REPORT FOR WRIGHT FARMS/FRONTIER CR904. CONTRACTOR SHALL REFERENCE THIS GEOTECHNICAL REPORT NO. W232725-2, ADDENDUM W232725-B, AND ADDENDUM W232725-2-REV1 PERFORMED BY UES ON JUNE 4, 2024, OCTOBER 3, 2024, AND JANUARY 22, 2025 RESPECTIVELY.

[illegible]

**PAPE-DAWSON
ENGINEERS**

6105 TENNYSON PKWY, STE 210 | PLANO, TX 75024 | 214.420.6494
TEXAS ENGINEERING FIRM #4770 | TEXAS SURVEYING FIRM #10028800

CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

LAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER SM
CHECKED AR DRAWN SM
SHEET 22

Post-Test: NOTE

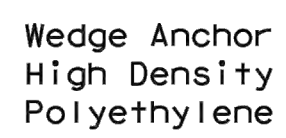
There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. <http://www.txdot.gov/business/producer>. The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

2. Sipla base part shall be permanently marked to indicate manufacturer, method, design, and location of marking are subject to approval of the Airbus Traffic Information System. The marking shall be in accordance with the following specifications:
 - 100 ILM (width: 0.875 outside diameter)
 - 0.154 nominal wall thickness
 - Seamless or 2-bright-ends welded steel tubing or pipe
 - Steel shall be AISI 52100 or AISI 52100H
 - Other alloy steels may be used if they meet the following:
 - 50,000 minimum tensile strength
 - 70,000 psi minimum tensile strength
 - 200 minimum elongation in 2"
3. Wall thickness (uncoated) shall be within the range of 0.129 to 0.138" outside diameter (uncoated) within the range of 0.3887 to 0.3883" galvanization per ASTM A132 or ASTM A132H G10. For pre-coated steel tubing ASTM A135B, record the coating thickness. The coating shall be galvanized with zinc wire per ASTM A132H schedule 80 Steel (0.875 outside diameter)
 - 0.276 nominal wall thickness
 - Steel tubing per ASTM A132 4500 or 4700
 - Seamless or 2-bright-ends welded steel tubing or pipe with equivalent minimum wall thickness may be used if they meet the following:
 - 46,000 minimum tensile strength
 - 62,000 psi minimum tensile strength
 - 210 minimum elongation in 2"
4. Wall thickness (uncoated) shall be within the range of 0.2487 to 0.2494" outside diameter (uncoated) within the range of 0.2955 to 0.2951" galvanization per ASTM A132
5. The tubing for the Sipla base shall be the same as the design of Sipla (Universal Transponder S1000base System components, the website address is <http://www.sipla.com>)
6. Sign and marking shall be as follows:
 - Sign: Sipla logo shall be as located on the sign.
 - Marking: Support parts shall not be split located.

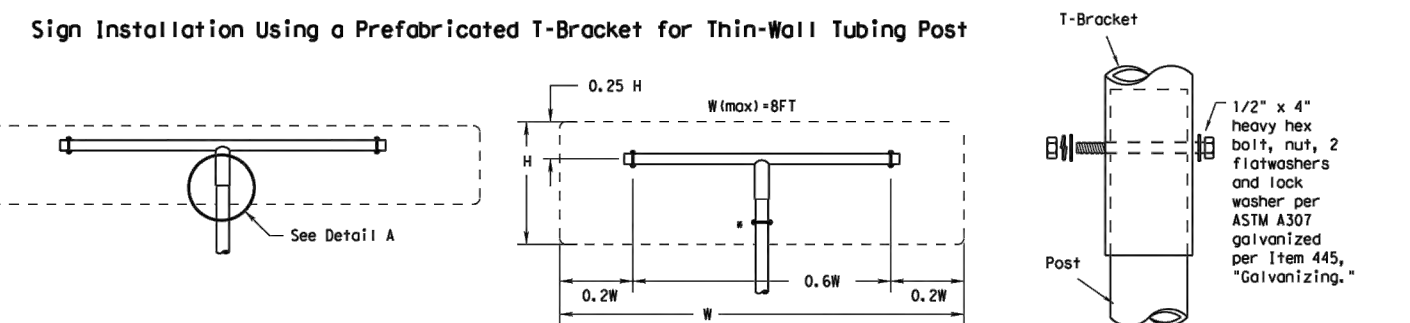
1. Rotate 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.
3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and the stub.
4. Allow the concrete to cure for 28 days. If it is between 2 to 4 inches above the ground, place a curb around the stub.
5. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
6. The triangular siphonage system is multidirectional and is designed to release when struck from direction.

(C) Tx00T July 2002 9-08 REVISIONS		DM: TX00T CONT	CA: TX00T SECT	DM: TX00T JOB	CA: TX00T HIGHWAY
		DIST	COUNTY		SHEET NO.
268					

Post



(HDPE) System



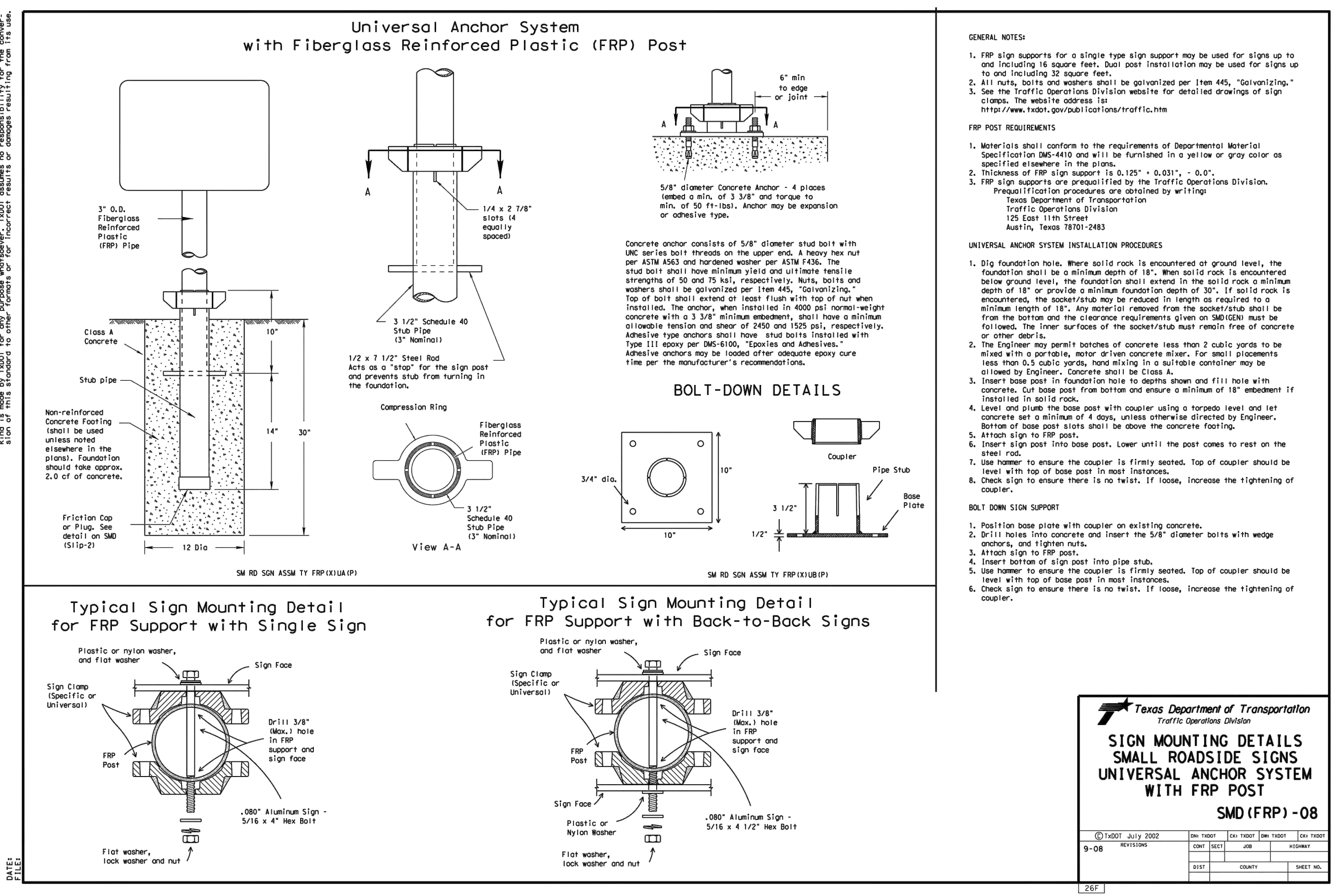
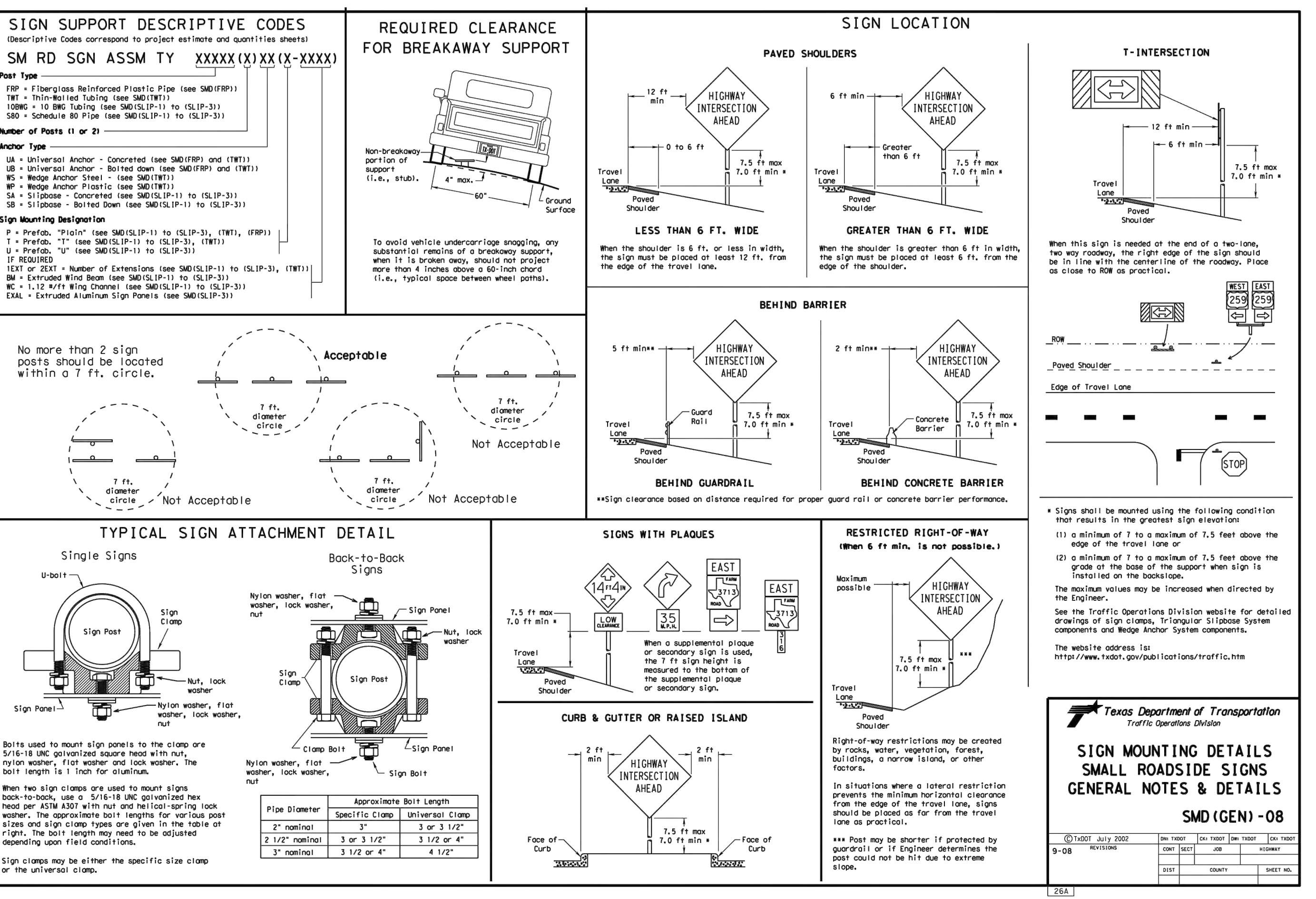
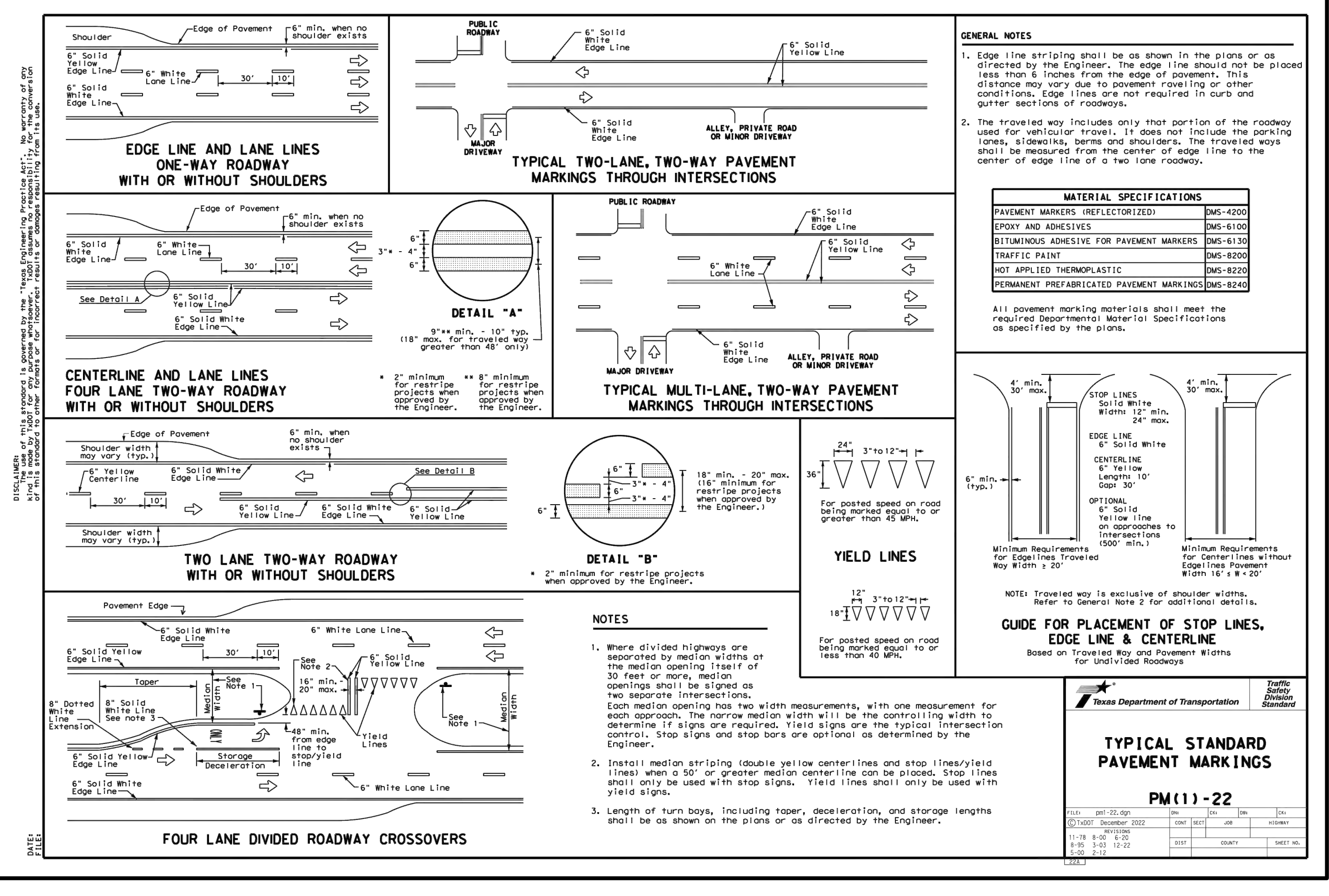
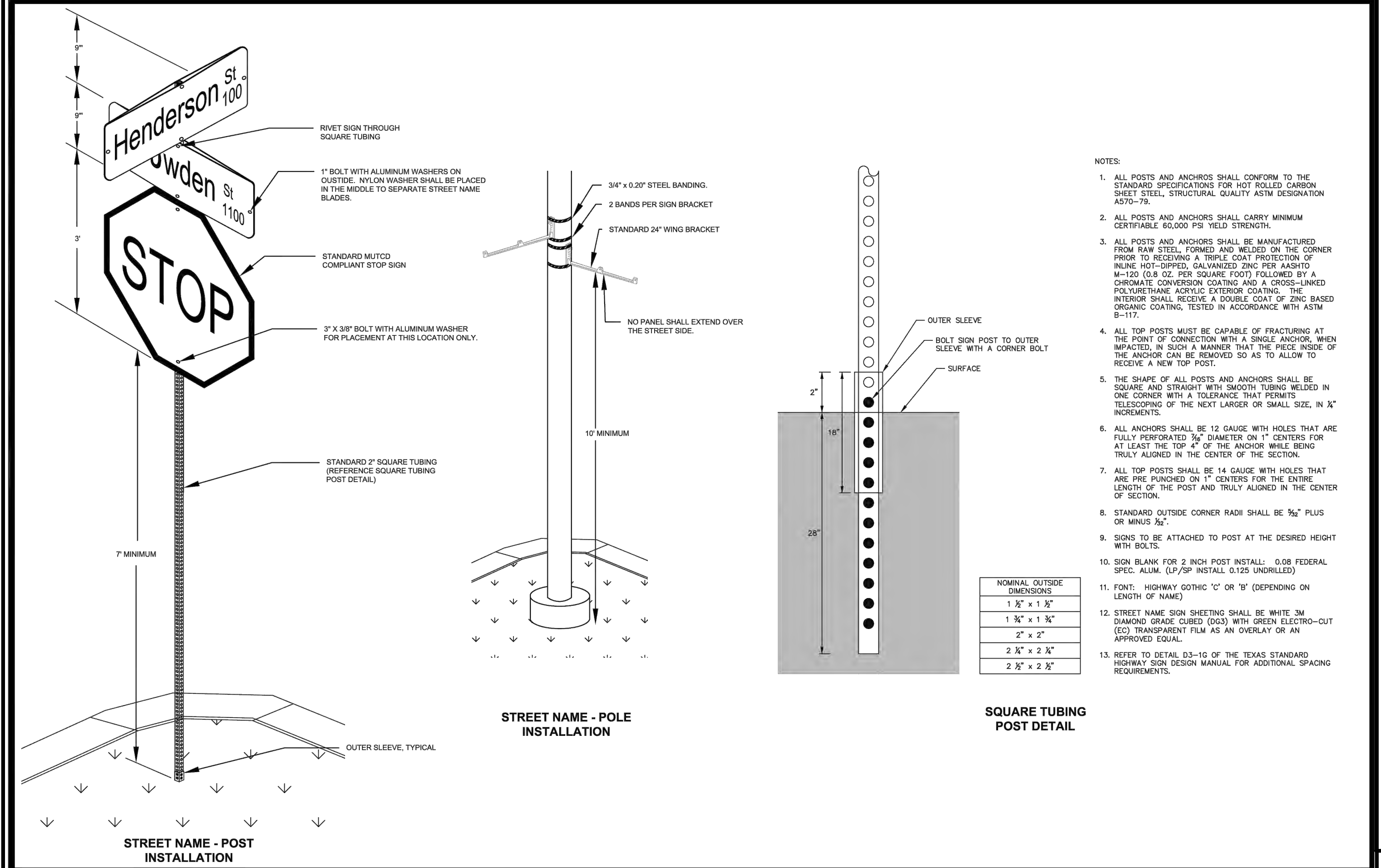
The devices shall be installed per manufacturer's recommendations.
Installation procedures shall be provided to the Engineer by Contractor.

9-08 REVISIONS		CORR DIST	SECT COUNTY	JOB SHEET NO.	HIGHWAY
-------------------	--	--------------	----------------	------------------	---------

7. Additional sign claims required for the "T-bracket" post for 24" high signs. Place one additional sign claim at the top of each T-bracket.
8. Sign supports shall not be applied except where shown. Sign support posts shall not be applied.
9. The Engineer's Operations Division website for detailed drawings of sign claims and Wedge Anchor System components, the website address is:
<http://www.hawaii.gov/dot/construction>
10. EDGE ANCHOR SYSTEM INSTALLATION PROCEDURE
a. When concrete is placed, it must be encased in ground level, the foundation soil must be a minimum depth of 18", when solid rock is encountered below 18" the contractor may excavate down to the next layer of rock. If the rock depth of 18" or provide a minimum foundation depth of 30". If solid rock is encountered, the contractor may reduce in length or increase to a minimum length, as needed if rock occurs above the bottom of the concrete requirements given on SAG(SGN) shall be followed. The contractor shall notify the Engineer immediately upon encountering rock.
- b. The Engineer may parallel tolerate of concrete less than 6" vertically to be allowed in the concrete wall, more tolerance will be allowed in the concrete base. In addition, 6" of concrete yards, non mixing in a suitable container may be allowed by Engineer. Concrete used in tote bins will be accepted, provided it is accompanied by the ground certificate shall be Class A.
- c. Install the anchor bolts in accordance with the cap of anchor is approximately 1/4" above the concrete footing.
- d. Flush the socket, allow a minimum 4 days for concrete to set, unless otherwise directed.
- e. Attach the sign to the sign post.
- f. Insert the sign post into the hole and align sign face with roadway.
- g. Drive the wedge into the socket to secure post, this will leave approximately 1/4" of the wedge exposed.

Stub may be reduced in length as required to a minimum
material removed from the socket/stub shall be from the

tightening of the compression ring.



COUNTY ROAD 904 IMPROVEMENTS

CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

STREET LIGHT, SIDEWALK & SIGNAGE DETAILS

PAPE-DAWSON ENGINEERS

6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8484

TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1003880

STATE OF TEXAS

142544

1/28/25

PLAT NO. N/A

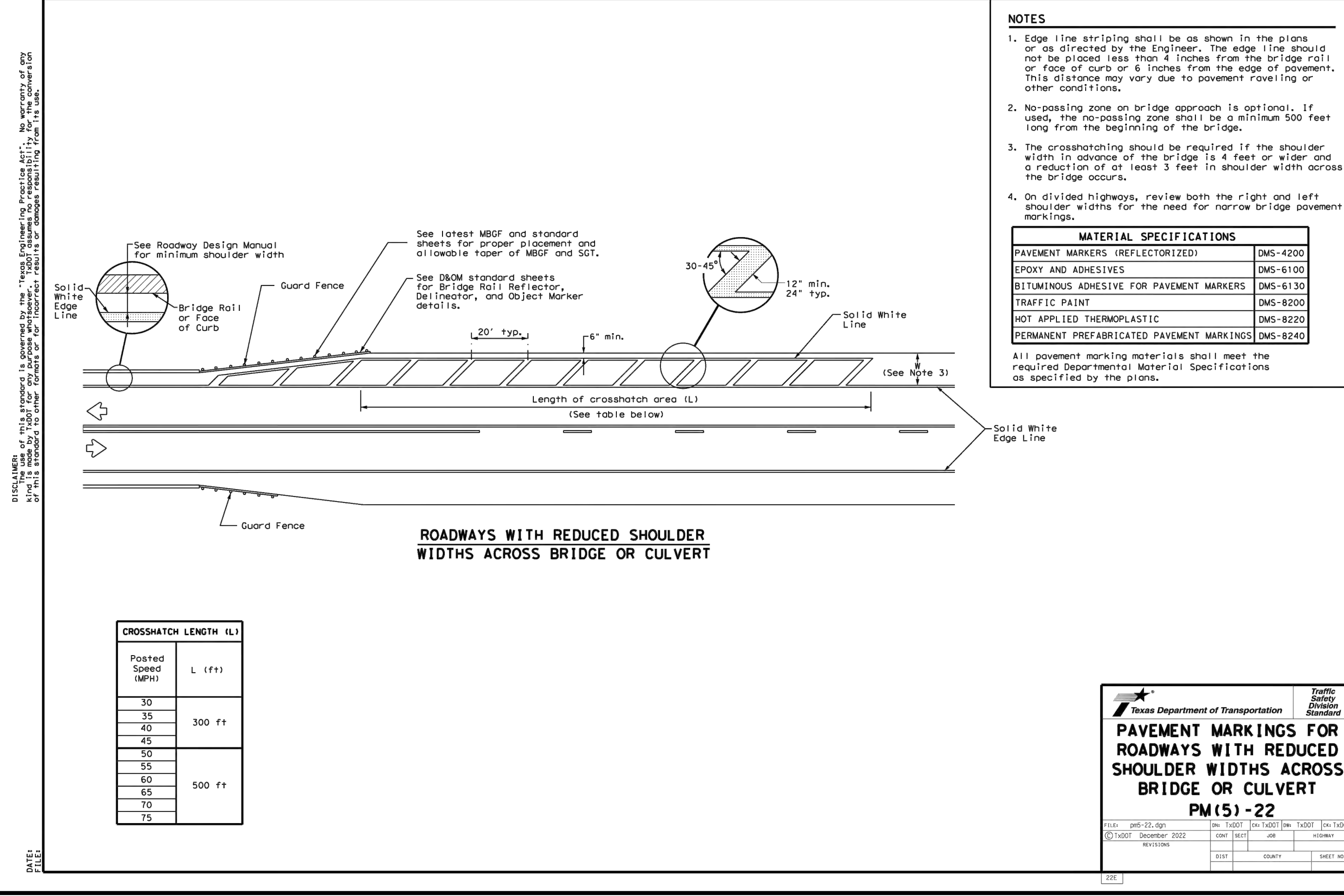
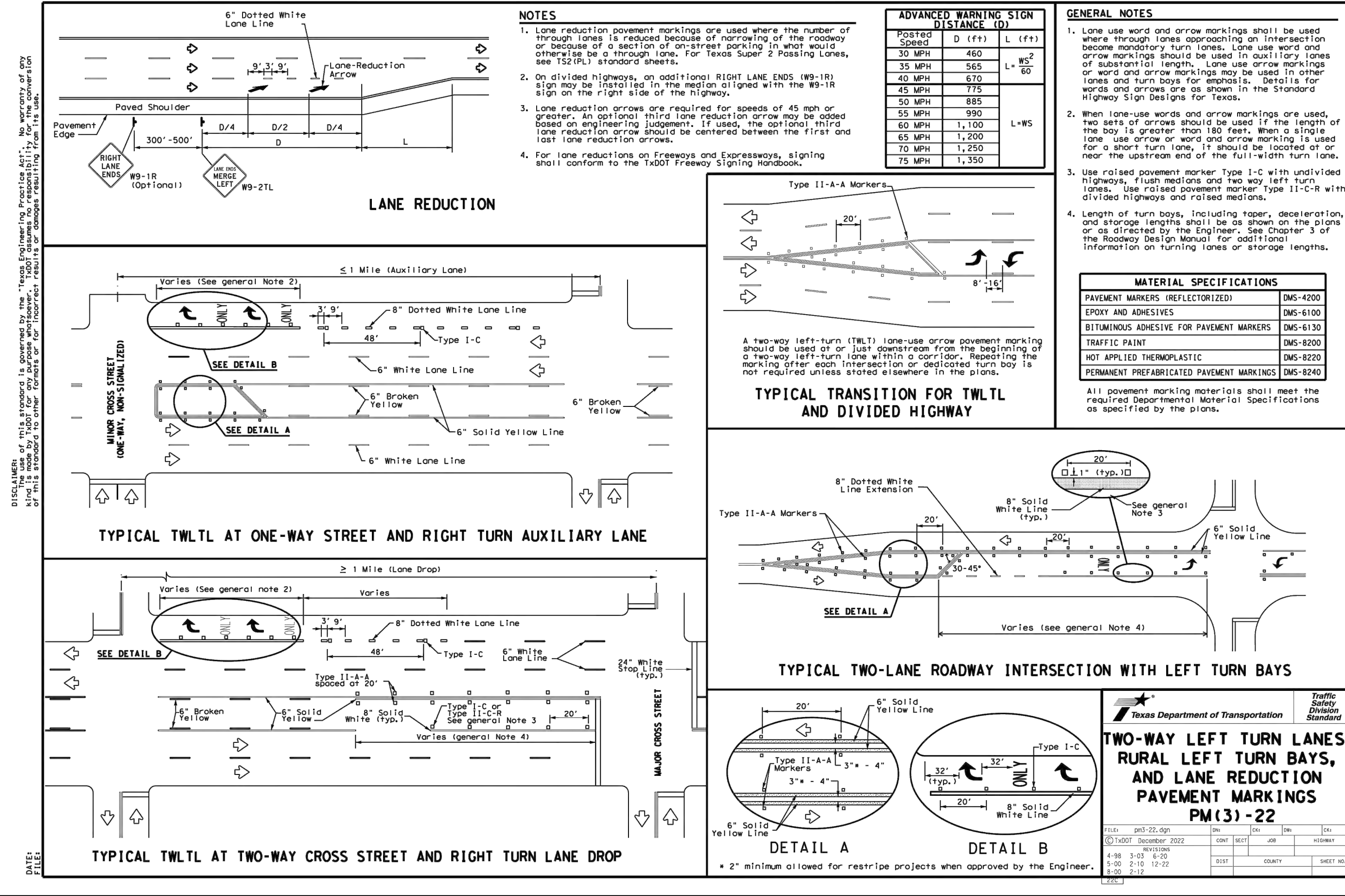
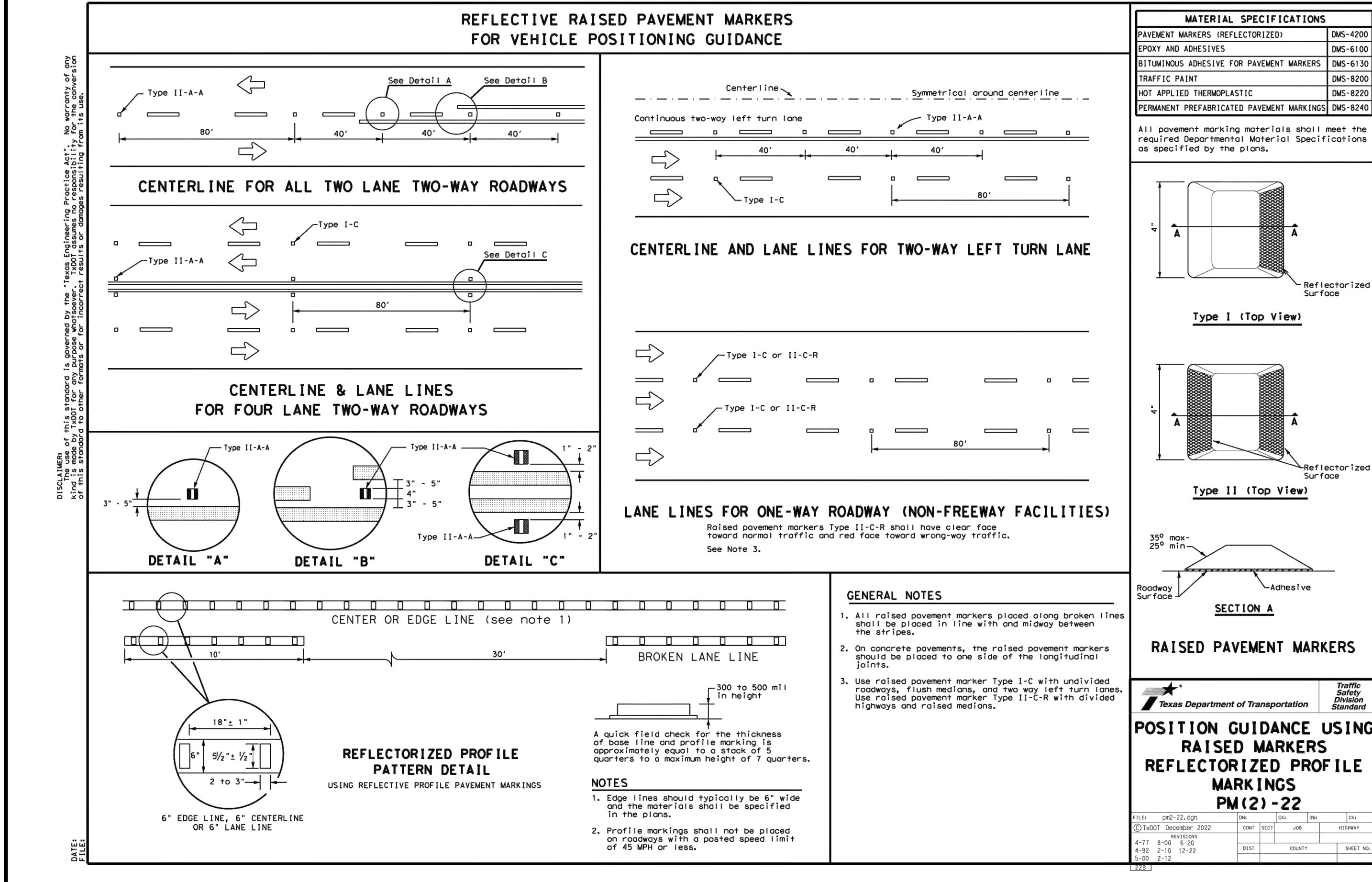
JOB NO. 61405-01

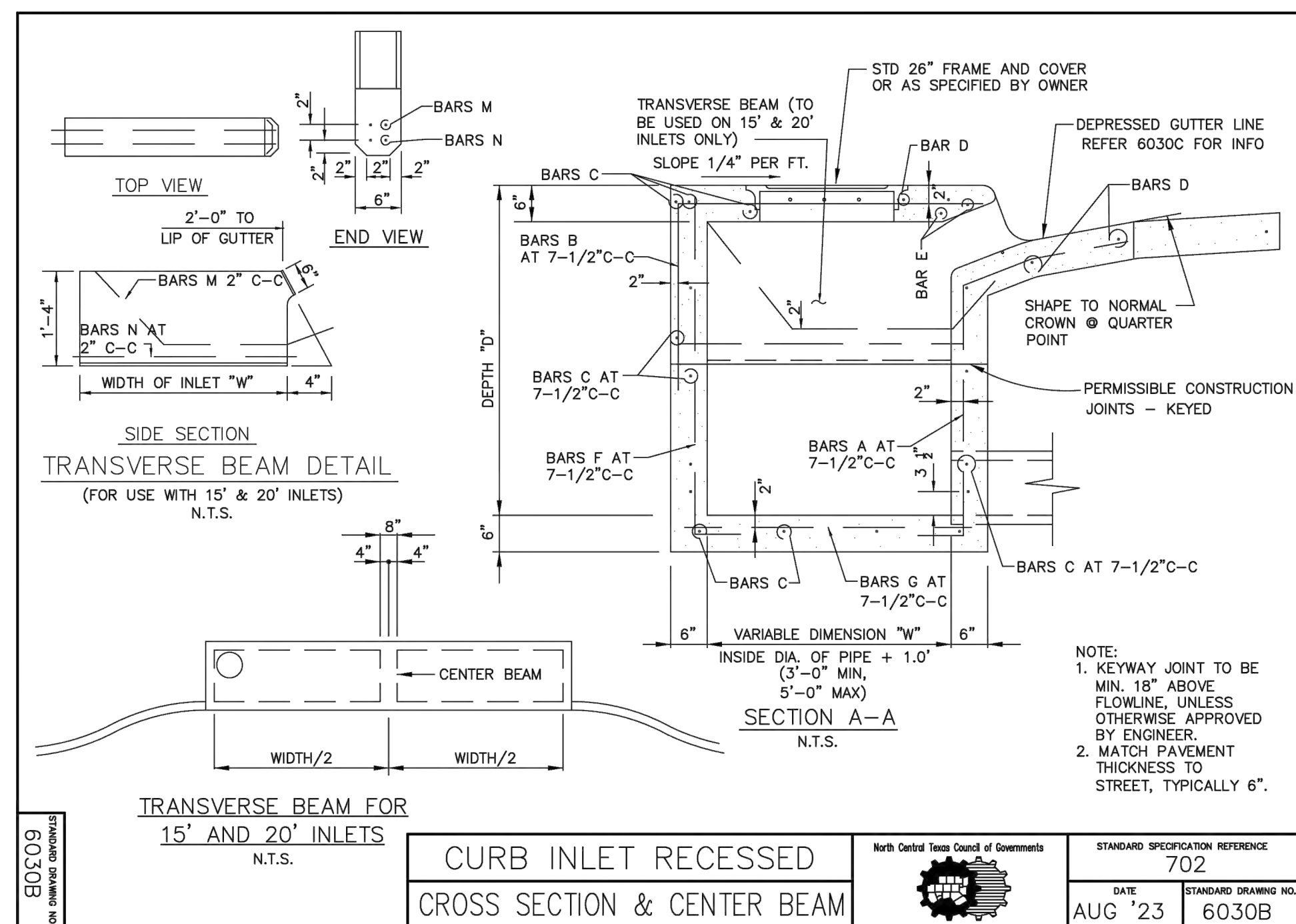
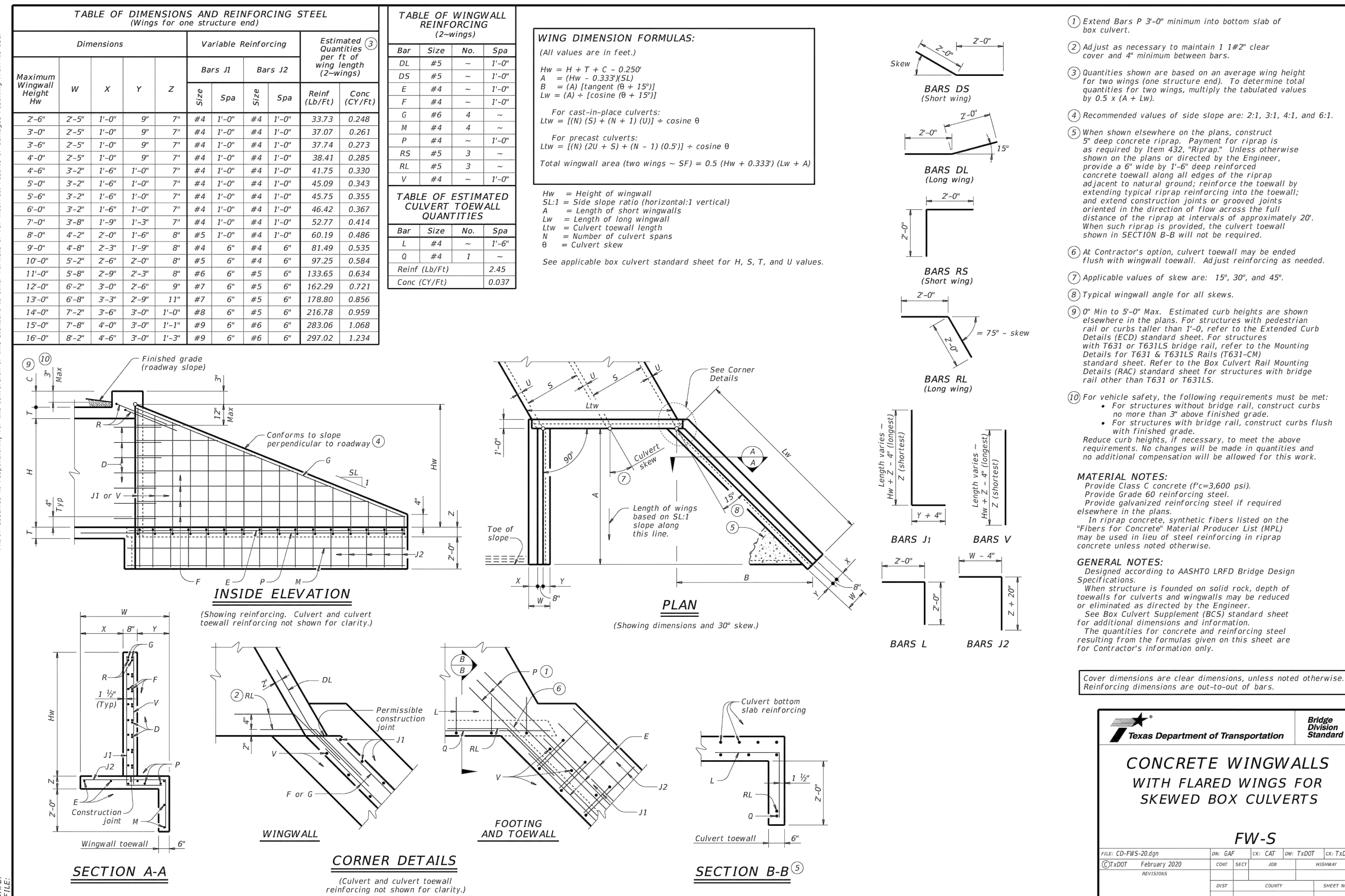
DATE 1/28/2025

DESIGNER SM

CHECKED AR **DRAWN** SM

SHEET 24





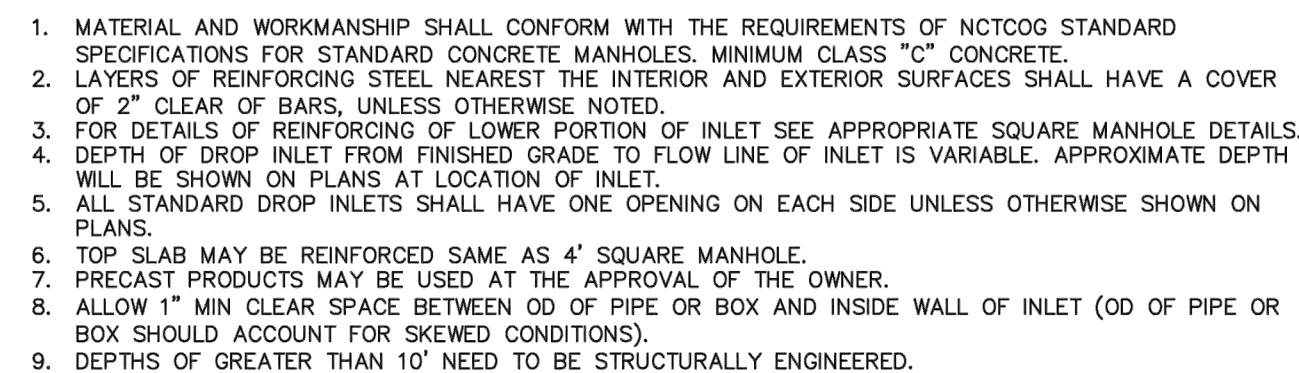


1. ALL REINFORCING STEEL SHALL BE GRADE 60, DEFORMED REINFORCING BARS AT A DIAMETER & LENGTH AS SHOWN.
2. ALL CONCRETE SHALL BE CLASS "C". ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
3. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2" CLEAR OF THE BARS.
4. 10'-0" OF EXISTING CURB AND GUTTER UPSTREAM AND 10'-0" OF EXISTING CURB AND GUTTER DOWNSTREAM SHALL BE REMOVED AND REPAIRED INTEGRALLY WITH EACH INLET.
5. ALL BACK FILLING SHALL BE PERFORMED BY MECHANICAL TAMPING TO 95% STANDARD PROCTOR DENSITY.
6. PRECAST PRODUCTS MAY BE USED AT THE APPROVAL OF THE OWNER.
7. ALLOW 1" MIN. CLEAR SPACE BETWEEN OD OF PIPE OR BOX AND INSIDE WALL OF INLET (OD OF PIPE OR BOX SHOULD ACCOUNT FOR SKEWED CONDITIONS).
8. FIELD CUT & BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER PIPE.
9. RING & COVER SHALL BE APPROVED BY THE OWNER AND INSTALLED BY CONTRACTOR.
10. WHEN POURING INVERTS, THE BOTTOM SHALL BE SLOPED NO MORE THAN 1/4"/FT TOWARD PIPE.
11. INLET OPENING SHALL BE 6" MIN OR 8" MAX.
12. 10 FT. MAX DEPTH.



CURB INLET RECESSED
BILL OF REINFORCING STEEL

CURB INLET RECESSED
SUMMARY OF QUANTITIES

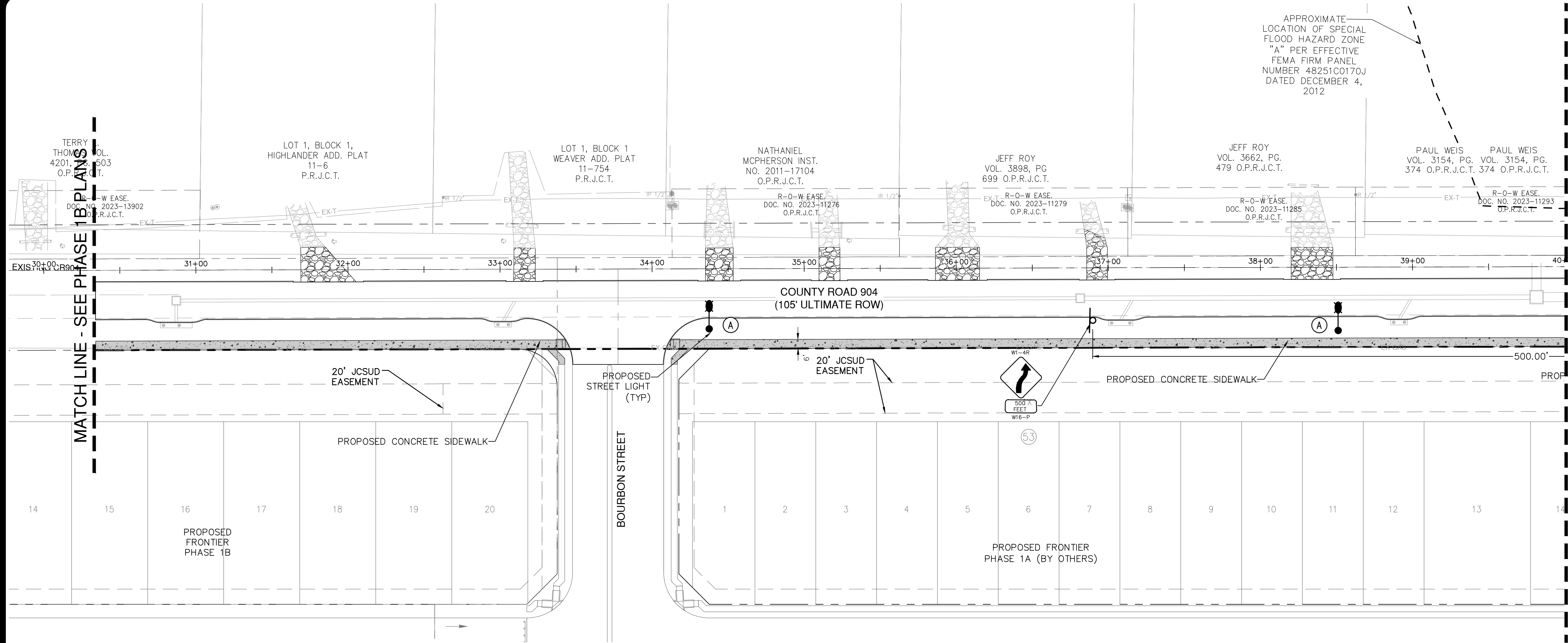
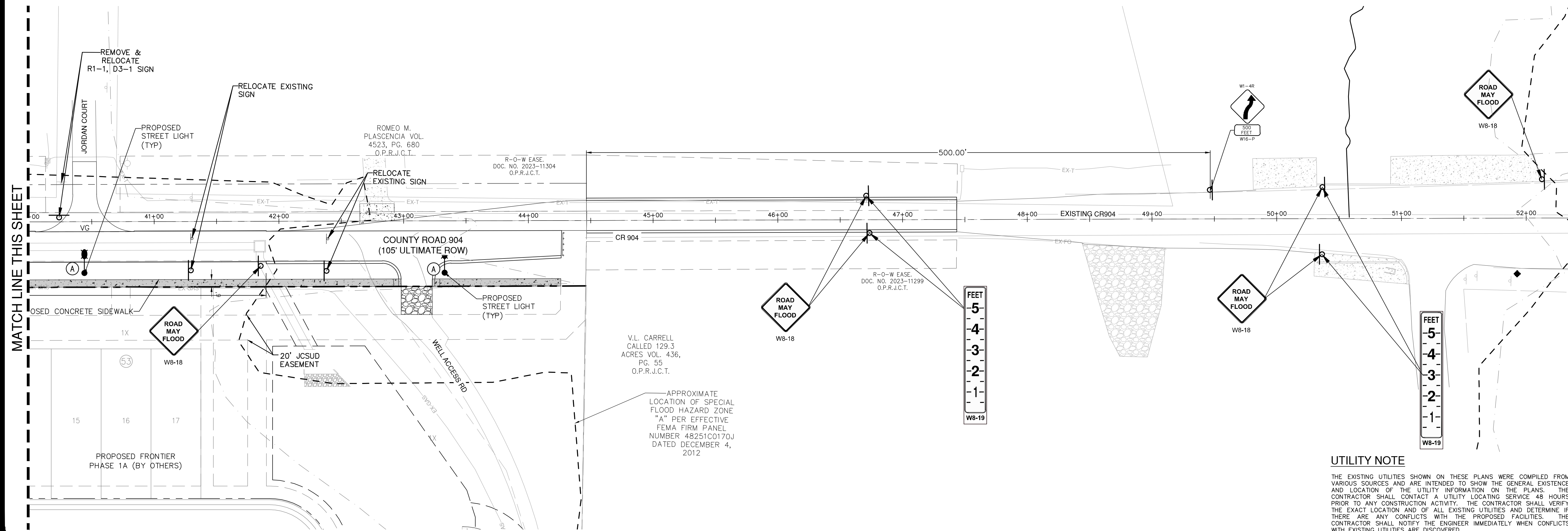


DROP INLET

2', 4', 5', OR 6' SQUARE

Date: Jun 25, 2025, 2:42pm User ID: AR05C0E
File: S:\Projects\614\05\01\2.0 Design\2.4 CIV\2.4.3 Plan Sheets\SC-6140501.dwg

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BENCHMARKS

CP#1	CP#2	CP#3	CP#4	CP#5
HUB 1/2" IR N: 6838595.465 E: 2298097.190 ELEV: 876.109	HUB 60D NAIL N: 6842154.006 E: 2301451.505 ELEV: 876.579	HUB 1/2" IR N: 6841086.582 E: 2301645.519 ELEV: 861.768	HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768	HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768

LEGEND

	PROPOSED CONCRETE SIDEWALK
	STREET SIGN
	PROPOSED STREET LIGHT
	GRAVEL PAVEMENT

NOTE:

1. STREET LIGHTS SHALL BE MINIMUM 7000 LUMENS PER CITY CODE.
2. STREET LIGHTS SHALL HAVE A MAXIMUM SPACING OF 600' AS APPROVED BY THE CITY ON 09/24/24.
3. STREET LIGHTS SHALL BE ATTACHED TO UCS ONE POLES.
4. CONTRACTOR TO COORDINATE WITH NITA AND ENGINEER ON EXACT LOCATION OF FLOOD GAUGE SIGNS PRIOR TO INSTALLATION.

COUNTY ROAD 904 IMPROVEMENTS

CITY OF CLEBURNE, JOHNSON COUNTY, TEXAS

STREET LIGHT, SIDEWALK & SIGNAGE PLAN

PLAT NO.	N/A
JOB NO.	61405-01
DATE	1/28/2025
DESIGNER	SM
CHECKED	AR
DRAWN	SM
SHEET	29

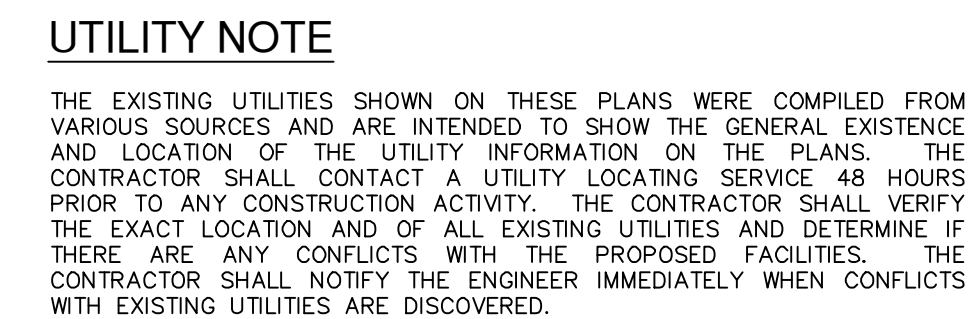
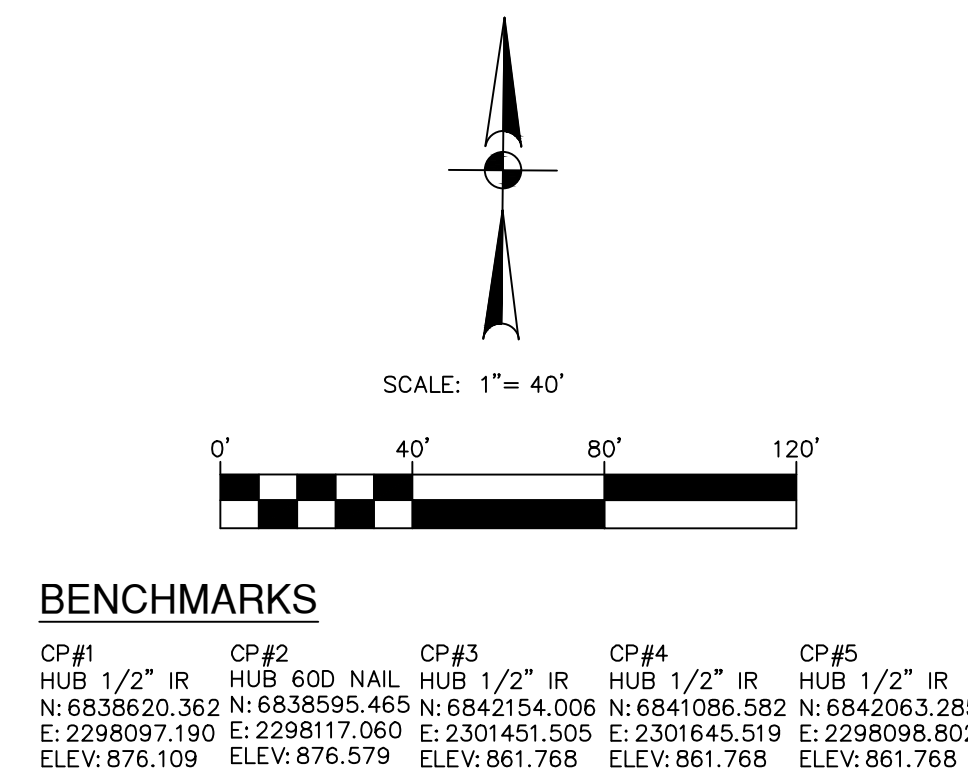
PAPE-DAWSON
ENGINEERS

6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8484
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1009890

1/28/25

Adrian

NO.	REVISION	DATE



PLAT NO. N/A
JOB NO. 61405-01
DATE 1/28/2025
DESIGNER SM
CHECKED AR DRAWN SM
SHEET 30

FIXED
(rigid or self-lighting)

DRIVEABLE

PORTABLE
(rigid or self-lighting)

VERTICAL PANELS (VPs)

1. Opposing Traffic Lane Dividers (OTLD) are delineation devices designed to control a normal one-way roadway section to two-way operation. OTLDs are used in temporary centerlines, the upward and downward slopes on the sign's face indicate the direction of traffic on either side of the divider. The base is secured to the pavement with an adhesive or rubber wedge to minimize movement caused by a vehicle impact or wind gust.

2. The OTLD may be used in combination with 42" cones or VPs.

3. Spacing between the OTLD shall not exceed 500 feet. 42" cones or VPs placed between the OTLD's should not exceed 100 foot spacing.

4. The OTLD shall be orange with a black non-reflective legend. Sheeting for the OTLD shall be retroreflective Type B_u or Type C_u conforming to Departmental Material Specification DM-8300, unless noted otherwise. The legend shall meet the requirements of DM-8300.

OPPOSING TRAFFIC LANE DIVIDERS (OTLD)

CHEVRONS

1. The chevron shall be a vertical rectangle with a minimum size of 12 by 18 inches.

2. Chevrons are intended to give notice of a sharp change of alignment with the direction of travel and provide additional emphasis and guidance for vehicle operators with regard to changes in horizontal alignment of the roadway.

3. Chevrons, when used, shall be erected on the outside of a sharp curve or turn, or on the far side of an intersection. They shall be in line with the centerline of the roadway.

4. To be effective, the chevron should be visible for at least 500 feet.

5. Chevrons shall be orange with a black non-reflective legend. Sheeting for the chevron shall be retroreflective Type B_u or Type C_u conforming to Departmental Material Specification DM-8300, unless noted otherwise. The legend shall meet the requirements of DM-8300.

6. For Long Term Stationary use on top of transitions on freeways and divided highways, self-lighting chevrons may be used to supplement plastic drums but not to replace plastic drums.

LONGITUDINAL CHANNELIZING DEVICES (LCD)

1. LCDs are crosshatched, lightweight, deformable devices that are highly visible, have good target value and can be connected together. They are not designed to contain or redirect a vehicle on impact.

2. LCDs may be used instead of a line of cones or drums.

3. LCDs shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CDOT list.

4. LCDs should not be used to provide positive protection for obstacles, pedestrians or workers.

5. LCDs shall be supplemented with retroreflective delineation as required for temporary barriers on ICDs when placed roughly parallel to the travel lanes.

6. LCDs used as barriers placed perpendicular to traffic should have at least one row of reflective sheeting meeting the requirements for barrier cloth as shown on ICDs. Place reflective sheeting near the top of the LCD along the full length of the device.

WATER BALLASTED SYSTEMS USED AS BARRIERS

1. Water ballasted systems used as barriers shall not be used solely to channelize road users, but also to protect the work zone from the opposing lane. For Assessing Safety Hazards (ASH) and other safety requirements based on roadway speed and traffic volume.

2. Water ballasted systems used to channelize vehicular traffic shall be supplemented with retroreflective delineation or channelizing devices to improve sightline/visibility. They may also be supplemented with pavement markings.

3. Water ballasted systems used as barriers shall be placed in accordance to application and installation requirements specific to the device, and used only when shown on the CDOT list.

4. Water ballasted systems used as barriers shall not be used for a merging taper except in low speed (less than 45 MPH) urban areas. When used on a taper in a low speed urban area, the taper shall be delineated and the taper length should be designed to optimize road user operations considering the available geometric conditions.

5. When water ballasted systems used as barriers have blunt ends exposed to traffic, they should be attenuated as per manufacturer recommendations or flared to a point outside the clear zone.

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

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

BC (9) - 21

GENERAL NOTES

1. Work zone channelizing devices illustrated on this sheet may be installed in close proximity to traffic and are suitable for use on high or low speed roadways. The Engineer/Inspector shall ensure that spacing and placement is uniform and in accordance with the Texas Manual on Uniform Traffic Control Devices (TMUTCD).

2. Channelizing devices shown on this sheet may have a drivable, fixed or portable base. The requirement for self-lighting channelizing devices must be specified in the General Notes or other plan sheets.

3. Channelizing devices on self-lighting supports should be used in work zone areas where channelizing devices are frequently located by errant vehicles or vehicle related wind gusts making alignment of the channelizing devices difficult to maintain. Locations of these devices shall not be elsewhere in the plans. These devices shall conform to the TMUTCD and the "Compact Work Zone Traffic Control Devices List" (CDOT).

4. The Contractor shall maintain devices in a clean condition and replace damaged, nonreflective, faded, or broken devices and bases as required by the Engineer/Inspector. The Contractor shall be required to maintain proper device spacing and alignment.

5. Portable bases shall be constructed from virgin and/or recycled rubber. The portable bases shall weigh a minimum of 30 lbs.

6. Pavement surfaces shall be prepared in a manner that ensures proper bonding between the adhesives, the fixed mount bases and the pavement surface. Adhesives shall be applied and applied according to the manufacturer's recommendations.

7. The installation and removal of channelizing devices shall not cause detrimental effects to the final pavement surfaces, including pavement surface discoloration or surface integrity. Drivable bases shall not be permitted on final pavement surfaces. The Engineer/Inspector shall approve all application and removal procedures of fixed bases.

SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES AND MINIMUM DESIRABLE TAPER LENGTHS

Posted Speed	Formula	Minimum Desirable Taper Lengths	Suggested Maximum Spacing
30	$L = \frac{V^2}{a}$	150' 165' 180'	30' 60'
35	$L = \frac{V^2}{a}$	205' 225' 245'	35' 70'
40	$L = \frac{V^2}{a}$	265' 295' 320'	40' 80'
45	$L = \frac{V^2}{a}$	330' 365' 400'	45' 90'
50	$L = \frac{V^2}{a}$	400' 445' 490'	50' 100'
55	$L = \frac{V^2}{a}$	480' 535' 590'	55' 110'
60	$L = \frac{V^2}{a}$	570' 635' 700'	60' 120'
65	$L = \frac{V^2}{a}$	670' 745' 820'	65' 130'
70	$L = \frac{V^2}{a}$	780' 870' 970'	70' 140'
75	$L = \frac{V^2}{a}$	900' 1005' 1120'	75' 150'
80	$L = \frac{V^2}{a}$	1030' 1155' 1290'	80' 160'

SHEET 9 OF 12

Texas Department of Transportation

BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES

BC (9) - 21

TYPE 3 BARRICADES

1. Refer to the Compact Work Zone Traffic Control Device List (CDOT) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.

2. Type 3 Barricades shall be used at each end of construction projects closed to all traffic.

3. Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striking slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road, striking should slope downward in both directions toward the center of roadway.

4. Striking of rolls, for the right side of the roadway, should slope downward to the left, for the left side of the roadway, striking should slope downward to the right.

5. Identification markings may be shown only on the back of the barricade rolls. The maximum height of letters and/or company logos used for identification shall be 1".

6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.

7. Morning lights shall not be installed on barricades.

8. Where barricades require the use of weights to keep from turning over, the use of sandbags with any, coneless and is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade roll's reflective sheeting. Roll, concrete, iron, steel, or other solid objects will not be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 100 lbs. Sandbags shall be made of durable material that tears upon vehicular impact. Rubber (such as fire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with ropes, wire, chains or other fasteners.

9. Sheeting for barricades shall be retroreflective Type A or Type B conforming to Departmental Material Specification DM-8300 unless otherwise noted.

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION

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

TYPICAL STRIPING DETAIL FOR BARRICADE RAIL

TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES

TRAFFIC CONTROL FOR MATERIAL STOCKPILES

PERSPECTIVE VIEW

PLAN VIEW

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS

LEGEND

1. Plastic drum

2. Plastic drum with steady burn light or yellow warning reflector

3. Steady burn warning light or yellow warning reflector

1. Where positive redirection capability is provided, drums may be utilized.

2. Plastic construction fencing may be substituted for drums when safety or required in the plans.

3. Vertical panels on a flexible support may be substituted for drums when the shoulder width is less than 4 feet, when the shoulder width is more than 12 feet, steady burn lights may be utilized if drums are used.

5. Drums must extend the length of the culvert widening.

BC (10) - 21

WORK ZONE PAVEMENT MARKINGS

GENERAL

1. The Contractor shall be responsible for maintaining work zone and existing pavement markings, in accordance with the standard specifications and special provisions, on all roadways open to traffic within the CSJ limits unless otherwise stated in the plans.

2. Color, patterns and dimensions shall be in accordance with the Texas Manual on Uniform Traffic Control Devices (TMUTCD).

3. Additional supplemental pavement marking details may be found in the plans or specifications.

4. Pavement markings shall be installed in accordance with the TMUTCD and as shown on the plans.

5. When short term pavement markings are required on the plans, short term markings shall conform with the TMUTCD, the plans and details as shown on the Standard Plan Sheet WZ15PM.

6. When standard pavement markings are not in place and the roadway is opened to traffic, 50 NOT PASS signs shall be erected to mark the beginning of the sections where passing is prohibited and PASS WITH CARE signs at the beginning of sections where passing is permitted.

7. All work zone pavement markings shall be installed in accordance with Item 602, "Work Zone Pavement Markings."

RAISED PAVEMENT MARKERS

1. Raised pavement markers are to be placed according to the patterns on BC121.

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

PREFABRICATED PAVEMENT MARKINGS

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

2. Non-removable prefabricated pavement markings (foi) shall meet the requirements of DM-8240.

MAINTAINING WORK ZONE PAVEMENT MARKINGS

1. The Contractor will be responsible for maintaining work zone pavement markings within the work limits.

2. Work zone pavement markings shall be inspected in accordance with the frequency and reporting requirements of work zone traffic control device inspections as required by Item 598.

3. The markings should provide a visible reference for a minimum distance of 300 feet during normal daylight hours and 160 feet when illuminated by approved low-beam headlights at night, unless sight distance is restricted by roadway geometry.

4. Markings failing to meet this criteria within the first 30 days after placement shall be replaced at the expense of the Contractor as per Specification Item 662.

Temporary Flexible-Reflective Roadway Marker Tabs

DEPARTMENTAL MATERIAL SPECIFICATIONS

PAVEMENT MARKERS (REFLECTORIZED) DM-4200

TRAFFIC TUBES DM-4300

EPOXY AND ADHESIVES DM-6100

BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS DM-6130

PERMANENT PREFABRICATED PAVEMENT MARKINGS DM-8240

TEMPORARY REMOVABLE, PREFABRICATED PAVEMENT MARKINGS DM-8241

TEMPORARY FLEXIBLE, REFLECTIVE ROADWAY MARKER TABS DM-8242

A list of prequalified reflective raised pavement markers, non-reflective traffic tubers, roadway marker tabs and other pavement markings can be found at the Material Producer List web address shown on BC111.

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

1. Temporary flexible-reflective roadway marker tabs used as guidemarks shall meet the requirements of DM-8242.

2. Tabs detailed on this sheet are to be inspected and accepted by the Engineer or designated representative. Sealing and testing is not normally required, however at the option of the Engineer, either "L" or "R" below may be imposed to assure quality before placement on the roadway.

A. Select five (5) or more tabs at random from each lot or shipment and submit to the Construction Division, Materials and Pavement Section to determine specification compliance.

B. Select five (5) tabs and perform the following test. Affix five (5) tabs at 24 inch intervals on an asphaltic pavement in a straight line. Using a medium size passenger vehicle or pickup, run over the markers with the front and rear tires at a speed of 35 to 40 miles per hour, four (4) times in each direction, no more than one (1) out of the five (5) reflective surfaces shall be lost or displaced as a result of this test.

3. Shell design variances may be noted between tab manufacturers.

4. See Standard Sheet WZ15PM for tab placement on new pavements. See Standard Sheet TDP1-1 for tab placement on seal coat work.

RAISED PAVEMENT MARKERS USED AS GUIDEMARKS

1. Raised pavement markers used as guidemarks shall be from the approved product list, and meet the requirements of DM-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 not applied or butyl rubber pad for all surfaces, or thermoplastic for concrete surfaces.

Guidemarks shall be designed as:
YELLOW - two amber reflective surfaces with yellow body.
WHITE - one silver reflective surface with white body.

SHEET 11 OF 12

Texas Department of Transportation

BARRICADE AND CONSTRUCTION PAVEMENT MARKINGS

BC (11) - 21

PAVEMENT MARKING PATTERNS

REFLECTORIZED PAVEMENT MARKINGS - PATTERN A

RAISED PAVEMENT MARKERS - PATTERN A

REFLECTORIZED PAVEMENT MARKINGS - PATTERN B

RAISED PAVEMENT MARKERS - PATTERN B

CENTER LINE & NO-PASSING ZONE BARRIER LINES FOR TWO-LANE, TWO-WAY HIGHWAYS

EDGE & LANE LINES FOR DIVIDED HIGHWAY

REFLECTORIZED PAVEMENT MARKINGS

RAISED PAVEMENT MARKERS

LANE & CENTER LINES FOR MULTILANE UNDIVIDED HIGHWAYS

REFLECTORIZED PAVEMENT MARKINGS

RAISED PAVEMENT MARKERS

TWO-WAY LEFT TURN LANE

STANDARD WORK ZONE PAVEMENT MARKING DETAILS

DOUBLE NO-PASSING LINE

SOLID LINES

WIDE LINE

BROKEN LINES

AUXILIARY OR LANEDROP LINE

REMOVABLE MARKINGS WITH RAISED PAVEMENT MARKERS

SHEET 12 OF 12

Texas Department of Transportation

BARRICADE AND CONSTRUCTION PAVEMENT MARKING PATTERNS

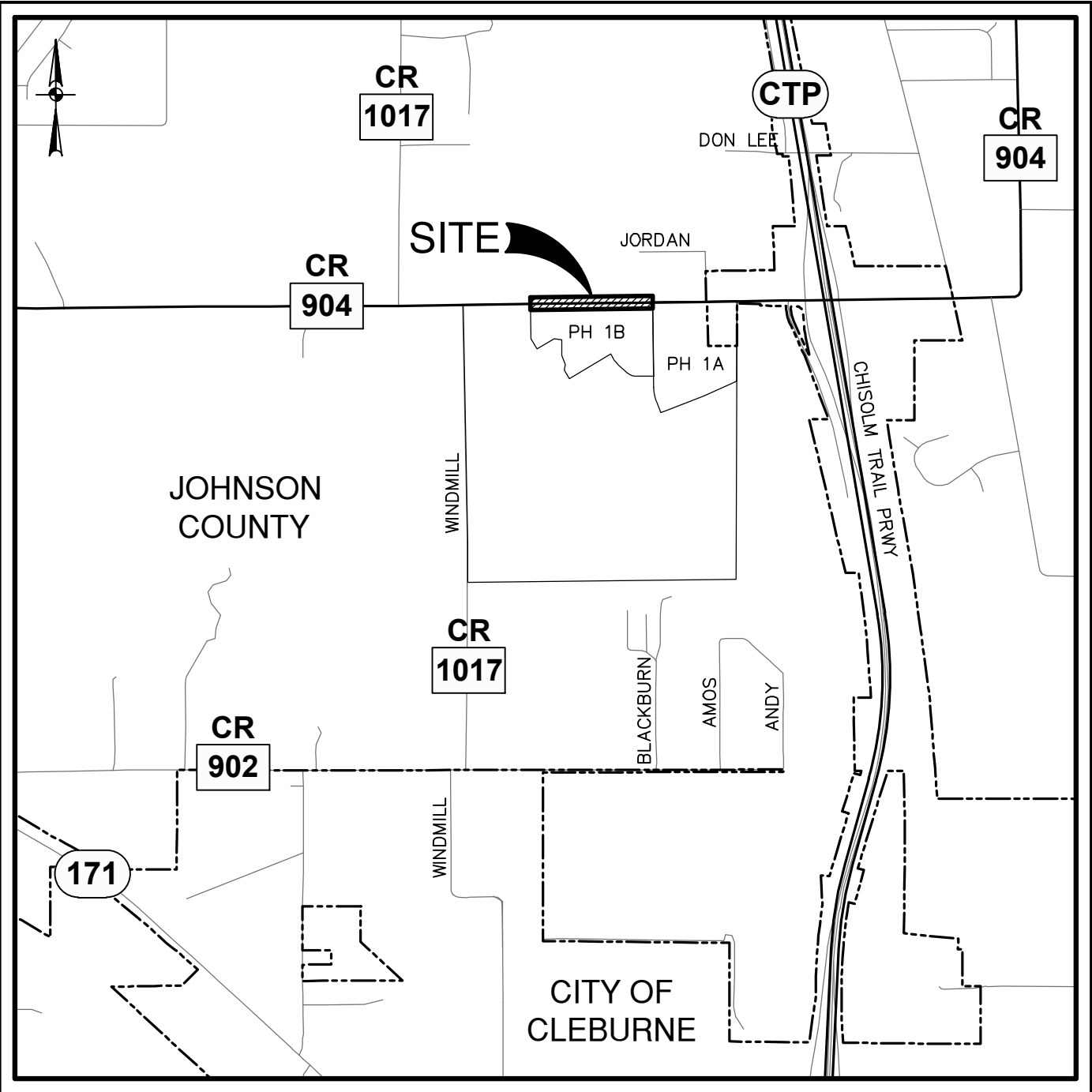
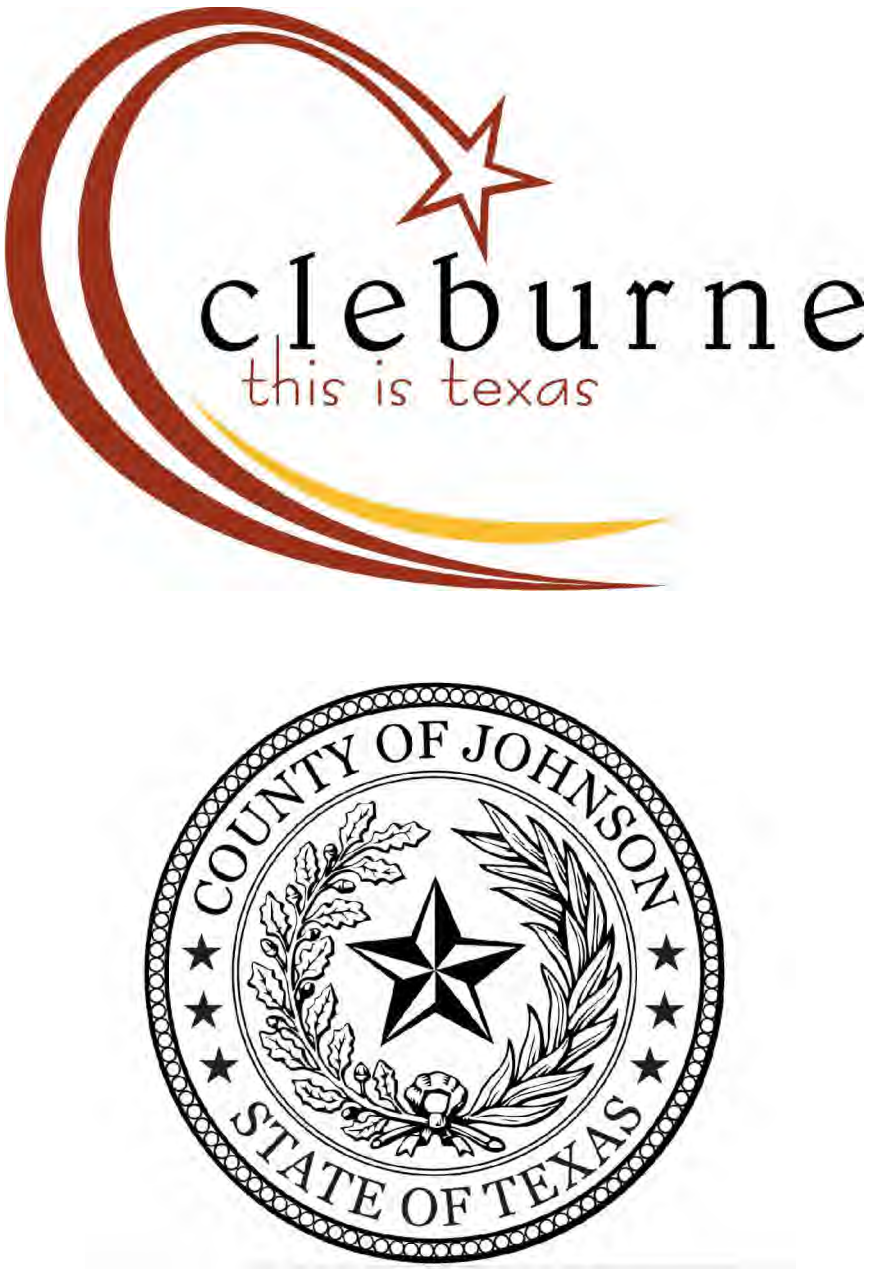
BC (12) - 21

FRONTIER

COUNTY ROAD 904 IMPROVEMENTS (PHASE 1B)

CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

CIVIL CONSTRUCTION PLANS



LOCATION MAP

NOT-TO-SCALE

OWNED/DEVELOPED BY:

LENNAR HOMES OF TEXAS, INC.
1231 GREENWAY DR, SUITE 800
IRVING, TX 75038

JANUARY 2025

PAPE-DAWSON
ENGINEERS

6105 TENNYSON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

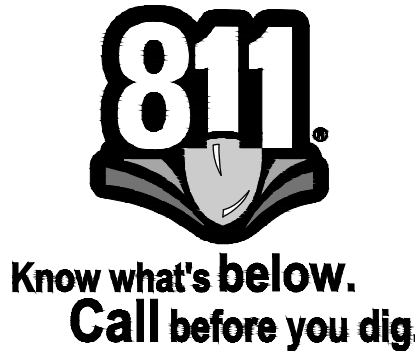
1/28/25

CONTACT: AJ ROSCOE, P.E.
AROSCOE@PAPE-DAWSON.COM

SHEET INDEX

Sheet Title	Sheet No
COVER SHEET	1
GENERAL CONSTRUCTION NOTES	2
DEMOLITION PLAN	3
EROSION CONTROL PLAN	4
EROSION CONTROL DETAILS (1)	5
EROSION CONTROL DETAILS (2)	6
PAVING PLAN & PROFILE - CR 904 (1)	7
PAVING PLAN & PROFILE - CR 904 (2)	8
GRADING PLAN	9
EXISTING DRAINAGE AREA MAP	10
PROPOSED DRAINAGE AREA MAP	11
ULTIMATE DRAINAGE AREA MAP	12
DRAINAGE & HYDRAULIC CALCULATIONS	13
STORM DRAIN PLAN & PROFILE - SD-D1	14
CONSTRUCTION PHASING PLAN - STAGE 1A & 1B	15
CONSTRUCTION PHASING PLAN - STAGE 2A & 2B	16
CONSTRUCTION PHASING PLAN - STAGE 3	17
PAVING DETAILS (1)	18
PAVING DETAILS (2)	19
SIGNAGE DETAILS	20
STORM DRAIN DETAILS (1)	21
STORM DRAIN DETAILS (2)	22
STREET LIGHT, SIDEWALK & SIGNAGE PLAN	23
PAVEMENT MARKING LAYOUT	24
TRAFFIC CONTROL DETAILS (1)	25
TRAFFIC CONTROL DETAILS (2)	26
TRAFFIC CONTROL DETAILS (3)	27
TRAFFIC CONTROL DETAILS (4)	28

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ALL GRADING OPERATIONS SHALL BE IN ACCORDANCE WITH
THE GEOTECHNICAL REPORT NO. W232725-2 BY UES ON
JUNE 4, 2024.

Date: April 21, 2023, 2:12 PM - User ID: AROSCEE
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GENERAL NOTES

- STANDARDS AND SPECIFICATIONS: ALL MATERIALS, CONSTRUCTION METHODS, WORKMANSHIP, EQUIPMENT, SERVICES AND TESTING FOR ALL PUBLIC IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE GOVERNING AUTHORITIES' ORDINANCES, REGULATIONS, REQUIREMENTS, STATUTES, SPECIFICATIONS AND DETAILS. LATEST PRINTING AND AMENDMENTS THERETO TO THE GOVERNING AUTHORITIES' PUBLIC WORKS AND WATER DEPARTMENT REQUIREMENTS, PLUMBING CODES, AND FIRE DEPARTMENT REGULATIONS SHALL TAKE PRECEDENT FOR ALL PRIVATE IMPROVEMENTS WHERE APPLICABLE. ALL OTHER PRIVATE CONSTRUCTION NOT REGULATED BY THE GOVERNING AUTHORITY SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, LATEST PRINTING AND AMENDMENTS THERETO, EXCEPT AS MODIFIED BY THE PROJECT CONTRACT DOCUMENTS.
- EXAMINATION OF PLANS: PRIOR TO COMMENCING ANY CONSTRUCTION, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THE WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
- EXAMINATION OF SITE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING AND SATISFYING HIMSELF AS TO THE CONDITIONS AFFECTING THE WORK, INCLUDING BUT NOT RESTRICTED TO THE BEARING UPON, TRANSPORTATION, DISPOSAL, HANDLING AND STORAGE OF MATERIALS, AVAILABILITY OF LABOR, WATER, ELECTRIC POWER, ROADS AND UNCERTAINTIES OF WEATHER OR SIMILAR PHYSICAL CONDITIONS AT THE SITE, CONDITIONS OF THE GROUND, AND THE EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING THE PERFORMANCE OF THE WORK. FAILURE BY THE CONTRACTOR TO ACQUAINT HIMSELF WITH THE AVAILABLE INFORMATION WILL NOT RELIEVE HIM OF RESPONSIBILITY FOR ESTIMATING THE DIFFICULTY OR COST OF SUCCESSFULLY PERFORMING THE WORK.
- SUBSURFACE INVESTIGATION: SUBSURFACE EXPLORATION TO ASCERTAIN THE NATURE OF SOILS HAS BEEN PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD ON THE PROJECT. THE SUBSURFACE INFORMATION WILL BE MADE AVAILABLE FOR THE CONTRACTORS USE. THE ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR THE ACCURACY, TRUE LOCATION, AND EXTENT OF THE SOILS INFORMATION PREPARED BY OTHERS.
- TOPOGRAPHY SURVEY: TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THE PLANS IS PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE INFORMATION SHOWN IS CORRECT AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS TO THE SURVEY INFORMATION PROVIDED.
- COMPLIANCE WITH LAWS: THE CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, INCLUDING ALL CODES, ORDINANCES, AND REGULATIONS APPLICABLE TO THIS CONTRACT AND THE WORK TO BE DONE THEREUNDER WHICH EXIST OR MAY BE ENACTED LATER BY GOVERNMENTAL BODIES HAVING JURISDICTION OR AUTHORITY FOR SUCH ENACTMENT. ALL WORK REQUIRED UNDER THIS CONTRACT SHALL COMPLY WITH ALL REQUIREMENTS OF LAW, REGULATION, PERMIT OR LICENSE. IF THE CONTRACTOR FINDS THAT THERE IS A VARIANCE, HE SHALL IMMEDIATELY REPORT THIS TO THE OWNER FOR RESOLUTION.
- PUBLIC CONVENIENCE AND SAFETY: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. MATERIALS STORED ON THE WORK SITE SHALL BE PLACED AND THE WORK SHALL AT ALL TIMES BE SO CONDUCTED AS TO CAUSE NO GREATER OBSTRUCTION TO THE TRAVELING PUBLIC THAN IS CONSIDERED ACCEPTABLE BY THE GOVERNING AUTHORITIES AND THE DEVELOPER AND NOT TO PREVENT FREE UNINTERRUPTED ACCESS TO ALL FIRE HYDRANTS, WATER VALVES, GAS VALVES, MANHOLES AND FIRE ALARM OR POLICE CALL BOXES IN THE VICINITY.
- STORM WATER POLLUTION PREVENTION PLAN (SWPPP): THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THE SWPPP WHILE CONDUCTING HIS ACTIVITIES ON THE PROJECT.
- PERMITS AND LICENSES: THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK AND SHALL FULLY COMPLY WITH ALL THEIR TERMS AND CONDITIONS. WHENEVER THE WORK UNDER THIS CONTRACT REQUIRES OBTAINING PERMITS FROM GOVERNING AUTHORITIES, THE CONTRACTOR SHALL FURNISH DUPLICATE COPIES OF SUCH PERMITS TO THE DEVELOPER BEFORE THE WORK COVERED THEREBY IS STARTED. NO WORK WILL BE ALLOWED TO PROCEED BEFORE SUCH PERMITS HAVE BEEN OBTAINED. COSTS ASSOCIATED WITH PERMITS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- APPROVED PLANS: THE CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED PLANS ON-SITE AT ALL TIMES.
- BONDS: PERFORMANCE, PAYMENT, AND MAINTENANCE BONDS MAY BE REQUIRED FROM THE CONTRACTOR FOR PUBLIC IMPROVEMENTS. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE THE BONDS IN THE FORM AND IN THE AMOUNTS AS REQUIRED BY THE GOVERNING AUTHORITIES. COSTS ASSOCIATED WITH PROVIDING THE BONDS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- INSPECTION AND TESTING: THE GOVERNING AUTHORITIES AND/OR THE DEVELOPER WILL PROVIDE INSPECTION AND TESTING OF THE PROPOSED CONSTRUCTION AT THEIR EXPENSE. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE WELL IN ADVANCE OF PENDING CONSTRUCTION ACTIVITIES TO THE GOVERNING AUTHORITIES AND/OR OWNER FOR SCHEDULING OF INSPECTION/TESTING SERVICES. IN THE EVENT THE RESULTS OF THE INITIAL TESTING DO NOT COMPLY WITH THE PLANS AND SPECIFICATIONS, SUBSEQUENT TESTS NECESSARY TO DETERMINE THE ACCEPTABILITY OF MATERIALS OR CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- SHOP DRAWINGS: THE CONTRACTOR SHALL PREPARE, REVIEW, AND SUBMIT ALL SHOP DRAWINGS, PRODUCT DATA AND SAMPLES REQUIRED BY THE GOVERNING AUTHORITIES AND THE PROJECT CONTRACT DOCUMENTS.
- SURVEYING: ALL SURVEYING REQUIRED FOR CONSTRUCTION STAKING WILL BE PROVIDED BY THE DEVELOPER ONE TIME ONLY. ALL RESTAKING SHALL BE AT THE CONTRACTOR'S EXPENSE.
- PROTECTION OF PROPERTY CORNERS AND BENCHMARKS: THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNERS, MARKERS, AND BENCHMARKS. WHEN ANY SUCH MARKERS OR MONUMENTS ARE IN DANGER OF BEING DISTURBED, THEY SHALL BE PROPERLY REFERENCED AND IF DISTURBED SHALL BE RESET BY A REGISTERED PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- EXISTING STRUCTURES: THE PLANS SHOW THE LOCATION OF ALL KNOWN SURFACE AND SUBSURFACE STRUCTURES. HOWEVER, THE DEVELOPER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE FAILURE TO SHOW ANY OR ALL OF THESE STRUCTURES ON THE PLANS OR TO SHOW THEM IN THEIR EXACT LOCATION. SUCH FAILURE SHALL NOT BE CONSIDERED SUFFICIENT BASIS FOR CLAIMS FOR ADDITIONAL COMPENSATION FOR EXTRA WORK OR FOR INCREASING THE PAY QUANTITIES IN ANY MANNER WHATSOEVER, UNLESS THE OBSTRUCTION ENCOUNTERED IS SUCH AS TO REQUIRE CHANGES IN THE LINES OR GRADES OR REQUIRE THE CONSTRUCTION OF SPECIAL WORK FOR WHICH PROVISIONS ARE NOT MADE IN THE PLANS.
- PROTECTION OF EXISTING UTILITIES: AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT", TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON THE BEST RECORDS AND/OR FIELD INFORMATION AVAILABLE AND ARE NOT GUARANTEED BY THE DEVELOPER OR ENGINEER TO BE ACCURATE AS TO THE LOCATION AND DEPTH. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF HIS ACTIVITIES IN ORDER THAT HE MAY NEGOTIATE SUCH LOCAL ADJUSTMENTS AS NECESSARY IN THE CONSTRUCTION PROCESS TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL EXISTING UTILITIES, SERVICES, AND STRUCTURES ENCOUNTERED WHETHER OR NOT THEY ARE ON THE PLANS. ANY DAMAGE TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT HIS EXPENSE. TO AVOID UNNECESSARY INTERFERENCES OR DELAYS, THE CONTRACTOR SHALL COORDINATE ALL UTILITY REMOVALS, REPLACEMENTS, AND CONSTRUCTION WITH THE APPROPRIATE GOVERNING AUTHORITIES. THE DEVELOPER WILL NOT BE LIABLE FOR DAMAGES DUE TO DELAY BECAUSE OF THE ABOVE.
- DAMAGE TO EXISTING FACILITIES: ALL EXISTING UTILITIES, PAVEMENT, SIDEWALKS, WALLS, FENCES, ETC. DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO STARTING THE WORK.
- FIRE AND LIFE SAFETY SYSTEMS: THE CONTRACTOR SHALL NOT REMOVE, DISABLE, OR DISRUPT EXISTING FIRE OR LIFE SAFETY SYSTEMS WITHOUT RECEIVING PRIOR WRITTEN PERMISSION FROM THE GOVERNING AUTHORITY.
- TRENCH SAFETY: THE CONTRACTOR IS RESPONSIBLE FOR HAVING A TRENCH SAFETY PLAN PREPARED IN ACCORDANCE WITH OSHA REQUIREMENTS BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS FOR THE IMPLEMENTATION OF TRENCH SAFETY CONTROL MEASURES THAT WILL BE IN EFFECT DURING THE CONSTRUCTION OF THE PROJECT. THE COSTS FOR PREPARATION OF THE TRENCH SAFETY PLAN SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- TRAFFIC CONTROL: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AND SUBMIT FOR APPROVAL BY THE GOVERNING AUTHORITIES A TRAFFIC CONTROL PLAN PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS OUTLINING TRAFFIC MANAGEMENT PROCEDURES TO BE PROVIDED DURING CONSTRUCTION. THE COSTS ASSOCIATED WITH THE PREPARATION AND IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
- ACCESS TO ADJACENT PROPERTIES: ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE GOVERNING AUTHORITIES AND/OR OWNER.
- ACCESS ROUTES, STAGING AREAS AND STORAGE AREAS: ALL PRIVATE HAUL ROADS AND ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING ROADS AND OTHER FACILITIES USED DURING CONSTRUCTION. UPON COMPLETION OF THE PROJECT, ALL HAUL ROADS,

- ACCESS ROADS, STAGING AREAS AND STORAGE AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITIONS PRIOR TO STARTING THE WORK.
- PARKING OF CONSTRUCTION EQUIPMENT: AT NIGHT AND DURING ALL PERIODS OF TIME WHEN EQUIPMENT IS NOT BEING ACTIVELY USED FOR CONSTRUCTION WORK, THE CONTRACTOR SHALL PARK THE EQUIPMENT AT LOCATIONS WHICH ARE APPROVED BY THE OWNER. DURING THE CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH THE PRESENT ZONING REQUIREMENTS OF THE GOVERNING AUTHORITIES IN THE USE OF VACANT PROPERTY FOR STORAGE PURPOSES. THE CONTRACTOR SHALL ALSO PROVIDE ADEQUATE BARRICADES, MARKERS, AND LIGHTS TO PROTECT THE OWNER, THE GOVERNING AUTHORITIES, THE PUBLIC, AND THE WORK. ALL BARRICADES, LIGHTS, AND MARKERS MUST MEET THE REQUIREMENTS OF THE GOVERNING AUTHORITIES' REGULATIONS.
 - WATER FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR PURCHASING WATER FROM THE GOVERNING AUTHORITY FOR HIS USE ON THE PROJECT SITE. COST ASSOCIATED WITH THIS SERVICE SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
 - TEMPORARY ELECTRIC AND COMMUNICATIONS FOR CONSTRUCTION: THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR THE INSTALLATION AND PURCHASING OF TEMPORARY ELECTRIC AND COMMUNICATIONS SERVICES FROM THE GOVERNING AUTHORITIES FOR HIS USE ON THE PROJECT SITE. COSTS ASSOCIATED WITH THIS SERVICE SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
 - FENCES: ALL FENCES ENCOUNTERED AND REMOVED DURING CONSTRUCTION, EXCEPT THOSE DESIGNATED TO BE REMOVED OR RELOCATED, SHALL BE RESTORED TO THE ORIGINAL OR BETTER THAN CONDITION UPON COMPLETION OF THE PROJECT. WHERE WIRE FENCING, EITHER WIRE MESH OR BARBED WIRE, IS NOT TO BE CROSSED, THE CONTRACTOR SHALL SET CROSS-BRACED POSTS ON EITHER SIDE OF THE CROSSING. TEMPORARY FENCING SHALL BE ERECTED IN PLACE OF THE FENCING REMOVED WHENEVER THE WORK IS NOT IN PROGRESS AND WHEN THE SITE IS VACATED OVERNIGHT AND/OR AT ALL TIMES TO PREVENT PERSONS AND/OR LIVESTOCK FROM ENTERING THE CONSTRUCTION AREA. THE COST OF FENCE REMOVAL, TEMPORARY CLOSURES, AND REPLACEMENT SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
 - COORDINATION WITH OTHERS: IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THE PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.
 - CONDITION OF THE SITE DURING CONSTRUCTION: THE CONTRACTOR SHALL KEEP THE SITE OF THE WORK AND ADJACENT PREMISES AS FREE FROM MATERIAL, DEBRIS, AND RUBBISH AS IS PRACTICAL. THE CONTRACTOR SHALL REMOVE MATERIAL, DEBRIS, AND RUBBISH FROM THE SITE IF, IN THE OPINION OF THE DEVELOPER, SUCH MATERIAL, DEBRIS, AND RUBBISH CONSTITUTES A NUISANCE OR IS OBJECTIONABLE.
 - EXISTING ROADWAYS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF EXISTING PAVED ROADS. COSTS ASSOCIATED WITH MAINTAINING THE CLEANLINESS OF EXISTING ROADS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
 - DUST CONTROL: THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO CONTROL DUST ON THE PROJECT SITE BY THE SPRINKLING OF WATER OR ANY OTHER METHODS APPROVED BY THE GOVERNING AUTHORITIES. COSTS ASSOCIATED WITH DUST CONTROL SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
 - CLEAN UP FOR FINAL ACCEPTANCE: THE CONTRACTOR SHALL MAKE A FINAL CLEAN UP OF ALL PARTS OF THE WORK BEFORE ACCEPTANCE BY THE OWNER. THIS CLEAN UP SHALL INCLUDE REMOVAL OF ALL OBJECTIONABLE MATERIALS AND, IN GENERAL, PREPARING THE SITE OF THE WORK IN AN ORDERLY MANNER OF APPEARANCE.
 - REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK: ALL WORK, WHICH HAS BEEN REJECTED OR CONDEMNED, SHALL BE REPAIRED, OR IF IT CANNOT BE REPAIRED SATISFACTORILY, SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. DEFECTIVE MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE WORK SITE. WORK DONE NOT IN CONFORMITY WITH THE GRADES SHOWN ON THE DRAWINGS OR AS WRITTEN AUTHORITY AND PRIOR AGREEMENT IN WRITING AS TO PRICES, SHALL BE AT THE CONTRACTOR'S RISK, AND WILL BE CONSIDERED UNAUTHORIZED, AND AT THE OPTION OF THE OWNER MAY NOT BE MEASURED AND PAID FOR AND MAY BE ORDERED REMOVED AT THE CONTRACTOR'S EXPENSE. UPON FAILURE OF THE CONTRACTOR TO REPAIR SATISFACTORILY OR TO REMOVE AND REPLACE THE DIRECTED, REJECTED, UNAUTHORIZED, OR CONDEMNED WORK OR MATERIALS IMMEDIATELY AFTER RECEIVING NOTICE FROM THE OWNER, THE OWNER WILL, AFTER GIVING WRITTEN NOTICE TO THE CONTRACTOR, HAVE THE AUTHORITY TO CAUSE UNAUTHORIZED WORK TO BE REMEDIED OR REMOVED AND REPLACED OR TO CAUSE UNAUTHORIZED WORK TO BE REMOVED AND TO DEDUCT THE COST THEREOF ANY MONIES DUE OR TO BECOME DUE TO THE CONTRACTOR.
 - DISPOSITION AND DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS: ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDED BUT NOT LIMITED TO EXCESS MATERIAL AND UNSUITABLE MATERIALS SUCH AS CONCRETE, ASPHALT, LARGE ROCKS, REFUSE, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT. CONTRACTOR SHALL ALSO COMPLY WITH ALL APPLICABLE LAWS GOVERNING SPILLAGE OF DEBRIS WHILE TRANSPORTING TO A DISPOSAL SITE. COSTS ASSOCIATED WITH THE DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
 - RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF THE INSTALLATION OF ALL MATERIALS AND SYSTEM COVERED BY THE PROJECT CONTRACT DOCUMENTS. THE COMPLETE SET OF 'RECORD DRAWINGS' MUST BE DELIVERED TO THE OWNER AND/OR ENGINEER BEFORE REQUESTING FINAL PAYMENT.

GRADING NOTES

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PROVISIONS OUTLINED IN F.H.A. DATA SHEET 796 AND/OR THE SPECIFICATIONS PREPARED BY THE SOILS ENGINEER.

- *ALL CLAY SOIL USED AS FILL SHOULD BE COMPACTED TO AT LEAST 95% AND NOT EXCEEDING 105 PERCENT OF STANDARD PROCTOR DENSITY AS DETERMINED BY A.S.T.M. D-698. THE COMPACTED MOISTURE CONTENT OF THE CLAYS DURING PLACEMENT SHOULD BE AT LEAST OPTIMUM AND NOT EXCEEDING FIVE (5) PERCENTAGE POINTS ABOVE OPTIMUM.
- *LIMESTONE OR OTHER ROCK-LIKE MATERIALS USED AS FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT AND NOT EXCEEDING 105 PERCENT OF STANDARD PROCTOR DENSITY AS DETERMINED BY A.S.T.M. D-698/ THE COMPACTED MOISTURE CONTENT DURING PLACEMENT SHOULD BE WITHIN PLUS OR MINUS THREE (3) PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT. NO ROCK LARGER THAN SIX INCHES IN ITS GREATEST DIMENSION SHALL BE USED IN FILL WHEN THE FILL IS PLACED UNDER PADS, STREETS OR ANY OTHER AREAS THAT WILL HAVE ANY TYPE OF STRUCTURES.
- COMPACTION SHOULD BE ACCOMPLISHED BY PLACING THE FILL IN SIX INCH THICK LOOSE LIFTS AND COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. PARTICLE SIZES USED IN FILL SHALL BE LESS THAN SIX (6) INCHES DIAMETER.
- GRADING CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OFF-SITE OF ALL EXCAVATED AND CLEARED MATERIAL, WHICH SOILS LAB DECLARES UNSUITABLE FOR USE ON-SITE.
- CONTRACTOR TO SLOPE THE ADJACENT GROUND AWAY FROM BUILDING PAD TO ACHIEVE POSITIVE SURFACE DRAINAGE.
- INITIAL SITE GRADING SHALL BE COMPLETED TO A TOLERANCE OF PLUS OR MINUS ONE TENTH OF ONE FOOT IN STREETS AND PLUS OR MINUS THREE TENTHS OF ONE FOOT FOR THE BUILDING PADS. FINAL BUILDING PAD GRADING, TO BE DONE UPON COMPLETION OF PAVING AND UTILITY FACILITIES, SHALL BE PROVIDED TO A TOLERANCE OF PLUS OR MINUS TWO TENTHS OF ONE FOOT AT ALL FOUR CORNERS AND CENTER OF BUILDING PAD, IN ALL SWALES, AND LOT CORNERS.
- CONTRACTOR SHALL REPLACE ANY EROSION CONTROL MATERIALS AT THE END OF EACH WORK DAY IF SAID MATERIALS WERE REMOVED DURING THE DAY FOR EASE OF CONSTRUCTION OR ACCESS.
- IF ROCK IS ENCOUNTERED IN THE STREET SUBGRADE, THE ROCK SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES, REMOVED FROM THE STREET, AND NON-ROCK MATERIAL SHALL BE REPLACED FOR THE STREET SUBGRADE. ROCK IN THE STREET PARKWAYS SHALL BE REMOVED AND REPLACED WITH SIX INCHES OF TOP SOIL. THIS SHALL BE ACCOMPLISHED BY THE EXCAVATION CONTRACTOR, SUBSIDIARY TO THIS CONTRACT.
- NO PART OF ANY RETAINING WALL SHALL BE WITHIN CITY RIGHT-OF-WAY, OR CITY PROPERTY (I.E. PARK) INCLUDING FOOTING.

* APPLIES TO ALL AREAS OUTSIDE OF PUBLIC R.O.W. ONLY. REFER TO PAVING GENERAL CONSTRUCTION NOTES FOR DENSITY/MOISTURE REQUIREMENTS IN R.O.W.

PAVING NOTES

- UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE OWNER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
- CONTRACTOR WILL BE RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO HIS OPERATIONS.
- SEE UTILITY PLANS FOR LOCATION OF WATER LINES, SANITARY SEWER LINES, STORM DRAINS, AND UTILITY CROSSING.
- ALL MATERIAL, AND CONSTRUCTION SHALL CONFORM TO APPLICABLE CITY STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS.

- ALL FILL SHALL BE COMPACTED AS SPECIFIED IN THE GEOTECHNICAL REPORT. DENSITY TEST RESULTS WILL BE REQUIRED AT THE PRE-CONSTRUCTION MEETING FOR ALL FILL AREAS IN EXCESS OF 2.0' UNDERNEATH PROPOSED PAVING.
- STREET CURB RADII AT STREET INTERSECTIONS SHALL BE 20' (MEASURED FROM BACK OF CURB) UNLESS OTHERWISE NOTED. ALL PAVING DIMENSIONS ARE TO BACK OF CURB, UNLESS OTHERWISE NOTED.
- TYPICAL PAVEMENT SECTION IS TO TRANSITION FROM CROWN SECTION TO TRANSVERSE SECTION WITHIN A DISTANCE OF 50' OF WHERE A VALLEY GUTTER CROSSES A STREET INTERSECTION.
- SEE PAVEMENT CONSTRUCTION DETAILS SHEET FOR PAVEMENT SECTIONS AND CONSTRUCTION DETAILS.
- BLUE REFLECTOR TO BE INSTALLED 1.0' OFFSET FROM CENTERLINE OF STREET ON FIRE HYDRANT SIDE, FOR PURPOSES OF QUICK HYDRANT LOCATION AT NIGHT.

STORM DRAIN NOTES

- WATER AND SANITARY SEWER LINES ARE SHOWN FOR REFERENCE ONLY. REFER TO WATER AND SANITARY SEWER PLANS FOR EXACT LOCATION.
- ALL STORM DRAIN LINES TO BE R.C.P. CLASS III UNLESS OTHERWISE NOTED.
- ALL CURVED STORM DRAIN IS TO BE CONSTRUCTED WITH RADIUS PIPE OR IS TO BE DEFLECTED AT JOINTS (PER MANUFACTURER'S SPECIFICATIONS) AND GROUDED AS NECESSARY. IT SHALL BE THE CONTRACTOR'S OPTION AS TO WHICH METHOD TO USE (NO SEPARATE PAY).
- ALL AREA DISTURBED BY CHANNEL EXCAVATION SHALL BE RE-VEGETATED AS SET FORTH IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WHICH WAS PREPARED SPECIFICALLY FOR THIS PROJECT, OR OTHERWISE PROTECTED AGAINST EROSION BY THE USE OF RIP-RAP, GABIONS, OR GEOTEXTILES.

EROSION & SEDIMENT CONTROL NOTES

- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY THE GOVERNING AUTHORITIES AND ALL PERIMETER EROSION CONTROL DEVICES HAVE BEEN INSTALLED.
- THIS EROSION CONTROL PLAN IS A SUPPLEMENT TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY OTHERS. REFER TO THE SWPPP FOR ADDITIONAL REQUIREMENTS.
- THE GENERAL CONTRACTOR, AS THE TCEQ DEFINES "OPERATOR," SHALL PERFORM ALL REQUIRED INSPECTIONS OF STORM WATER CONTROLS AND PRACTICES AT FREQUENCIES OUTLINED IN THE TPDES GENERAL PERMIT AND SHALL FILL OUT APPROPRIATE INSPECTION FORMS (AS PROVIDED IN THE SWPPP) UNLESS OTHERWISE DIRECTED BY THE OWNER.
- THE GENERAL CONTRACTOR (AND ALL SUBCONTRACTORS INVOLVED WITH ANY CONSTRUCTION ACTIVITIES RELATED TO EARTHWORK, EROSION CONTROL, ETC. OR WHICH UTILIZE POSSIBLE POLLUTANTS AS DEFINED IN THE TPDES GENERAL PERMIT) SHALL REVIEW AND ADHERE TO THE SWPPP FOR THE PROJECT, AS WELL AS ALL THE TCEQ REQUIREMENTS SET FORTH IN THE TPDES GENERAL PERMIT.
- ADDITIONAL EROSION CONTROL DEVICES AND/OR ADJUSTMENT OF LOCATIONS FOR EROSION CONTROL MAY BE IMPLEMENTED BY THE CONTRACTOR AT HIS DISCRETION AND/OR IN THE OPINION OF THE CITY INSPECTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER. THE ADDITION OR DELETION OF ANY EROSION CONTROL MEASURE MAY REQUIRE THAT THE SWPPP BE MODIFIED IN ACCORDANCE WITH THE TCEQ'S TPDES GENERAL PERMIT GUIDELINES.
 - EXCAVATION CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION OF SILT BARRIERS, CHECK DAMS, AND CONSTRUCTION ENTRANCE/EXIT.
 - UTILITY CONTRACTOR (WATER, SEWER & STORM DRAIN) TO BE RESPONSIBLE FOR INSTALLATION OF STAGE 1 AND STAGE 2 INLET PROTECTION.
 - OWNER TO BE RESPONSIBLE FOR SEEDING AND FINAL REMOVAL OF EROSION CONTROLS.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES ALREADY IN PLACE. CONTRACTOR SHALL REMOVE AND REPLACE EROSION CONTROL AS NEEDED FOR CONSTRUCTION OR ACCESS. ALL EROSION CONTROL MUST BE IN PLACE AT THE END OF EACH DAY.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO USE WHATEVER MEANS ARE NECESSARY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS, STORM DRAIN SYSTEMS, INLETS, AND ADJACENT PROPERTY FROM EROSION DEPOSITS. THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT OF WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES SHOWN AND NOTED IN THESE PLANS AND THE SWPPP.
- ALL EROSION CONTROL DEVICES TO BE INSPECTED, CLEANED, AND/OR REPLACED AFTER EACH STORM.
- USE OF ON-SITE FUEL STORAGE TANKS IS DISCOURAGED. HOWEVER, IF USED, THE PREVENTION OF HAZARDS TO THE GROUND WATER IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR UTILIZING SAID STORAGE. SEE N.C.T.C.O.G. CONSTRUCTION BMP MANUAL SECTION 4 -- HAZARDOUS WASTE MANAGEMENT.
- A CENTRALIZED PIT/WASH BASIN SHALL BE CONSTRUCTED ON-SITE FOR THE PURPOSE OF CONCRETE TRUCK WASHING. SEE N.C.T.C.O.G. CONSTRUCTION BMP MANUAL SECTION 4 -- CONCRETE WASTE MANAGEMENT.
- CONTRACTORS SHALL PARK, STORE EQUIPMENT AND MATERIALS AND SERVICE VEHICLES AT THE 'PARKING AND STORAGE AREA'. THE LOCATION OF SAID AREA IS TO BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
- CONSTRUCTION ENTRANCES ARE TO BE INSTALLED AT ALL POINTS WHERE EQUIPMENT ENTERS OR LEAVES THE SITE. THE LOCATION OF SAME IS TO BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
- EROSION CONTROLS TO REMAIN IN PLACE AND TO BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
- EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLET OR IN CHANNELS, DRAINAGEWAYS OR BORROW DITCHES AT RISK OF CONSTRUCTION. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY MEASURES, INCLUDING FLOOD DAMAGE WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE AT THE CONCLUSION OF ANY PROJECT. ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREGED OF ANY SEDIMENT GENERATED BY THE PROJECT AS A RESULT OF EROSION CONTROL MEASURES.
- ALL WASH WATER SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT BETWEEN WASH WATER POLLUTANTS AND STORM RUNOFF DISCHARGED FROM THIS SITE.
- DISTURBED AREAS ON THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR AT LEAST 14 DAYS SHALL BE TEMPORARILY PLANTED AND/OR SEEDED AND WATERED.
- DISTURBED AREAS ON THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED AND AREAS WHERE FINAL GRADE HAS BEEN ACHIEVED SHALL BE PERMANENTLY PLANTED AND/OR SEEDED WITHIN 14 DAYS.
- PLANTING AND/OR SEEDING OF VEGETATED AREAS TO ACCOMPLISH STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE LANDSCAPING PLAN. AREAS BEYOND THE LIMITS OF THE LANDSCAPING PLAN (OR WHEN A LANDSCAPING PLAN DOES NOT EXIST) SHALL BE HYDROMULCHED WITH HIGHWAY MIX AND WATERED WITH TEMPORARY ABOVE GROUND IRRIGATION UNTIL THE VEGETATION IS ESTABLISHED.
- THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SILT IN ANY STORM SEWER INLETS AND PIPES, AND ALONG SILT FENCES, WITHIN 48 HOURS AFTER INSPECTIONS OF DEVICES REVEALS THE PRESENCE OF EXCESS SILTATION.
- SILT FENCES SHALL BE PLACED AROUND STOCKPILES USED ON THE SITE.
- THE CONTRACTOR SHALL MODIFY THIS PLAN TO SHOW LOCATIONS OF TEMPORARY WASHDOWN AREA, PORTABLE TOILETS, EQUIPMENT MAINTENANCE/REPAIR AREAS, STOCKPILE AREAS, FUEL STORAGE AREAS, ETC. AND POLLUTANT CONTROLS FOR EACH.

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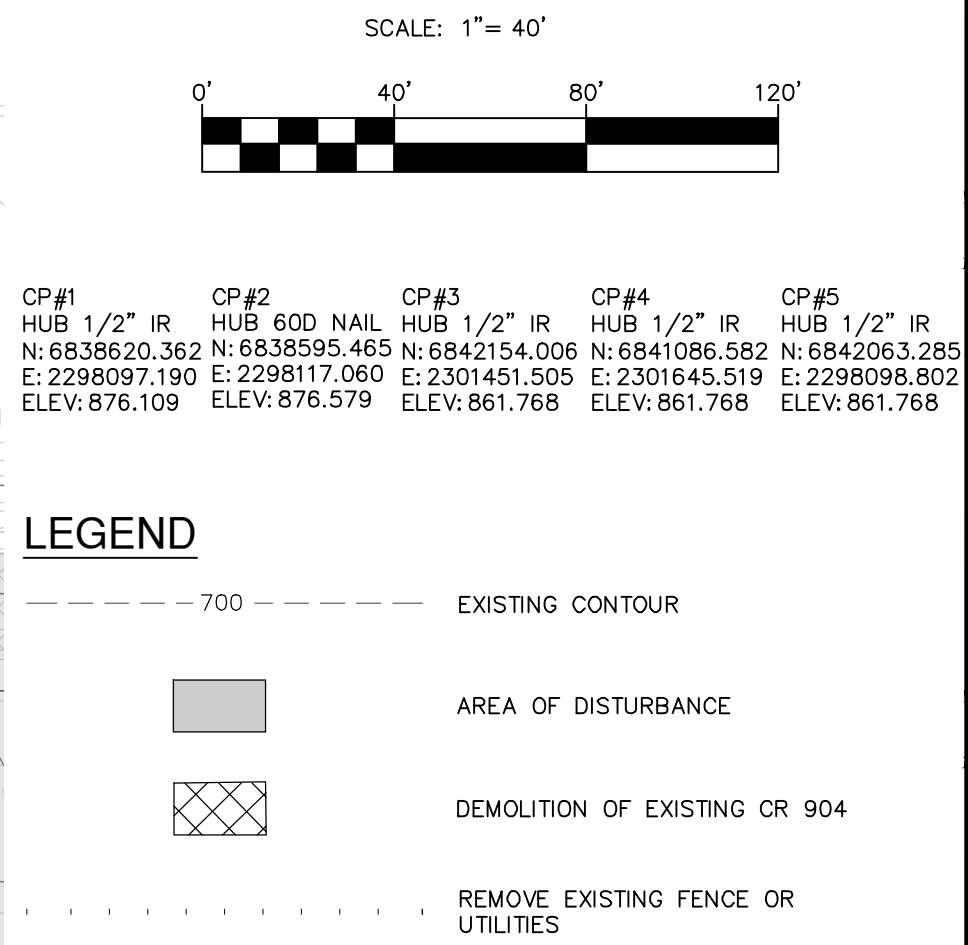
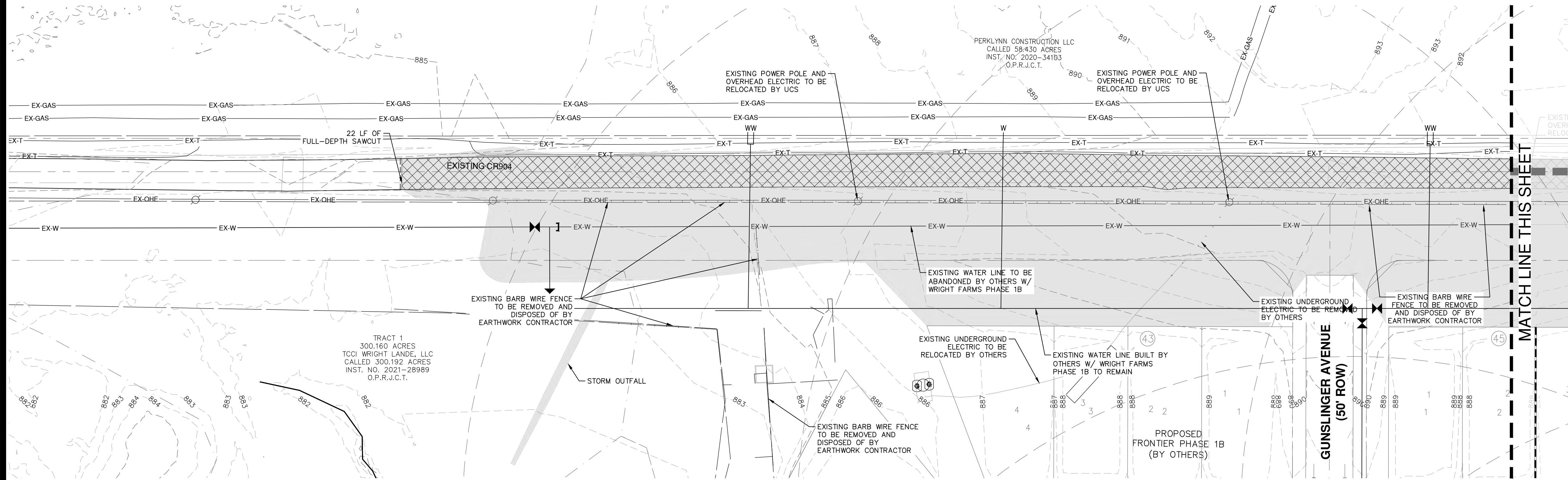
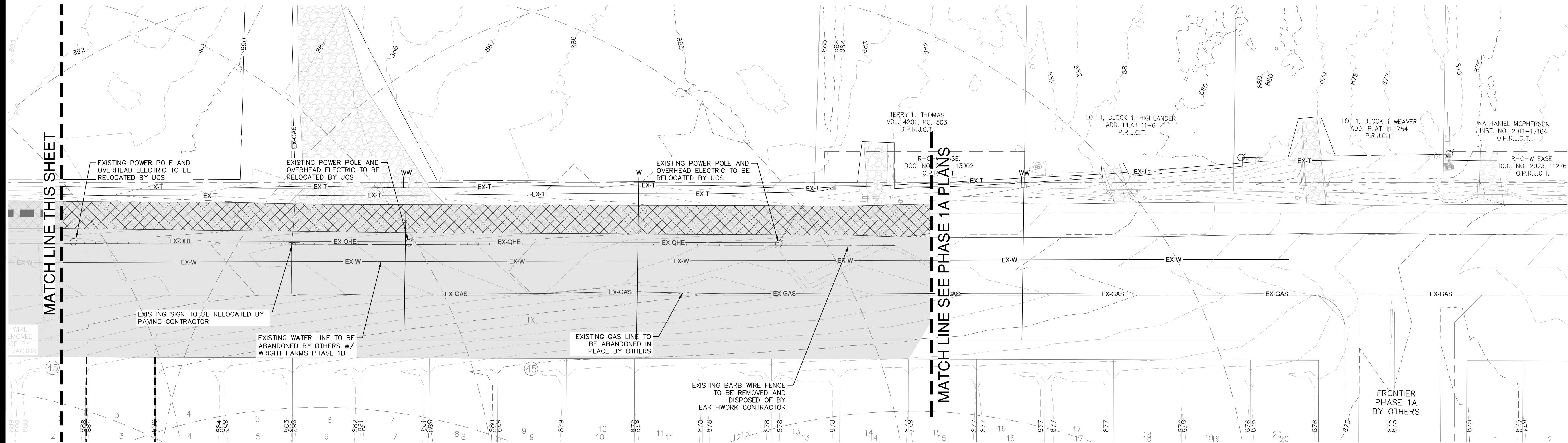
COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

GENERAL CONSTRUCTION NOTES

PLAT NO.	N/A
JOB NO.	61405-03
DATE	1/28/2025
DESIGNER	CL
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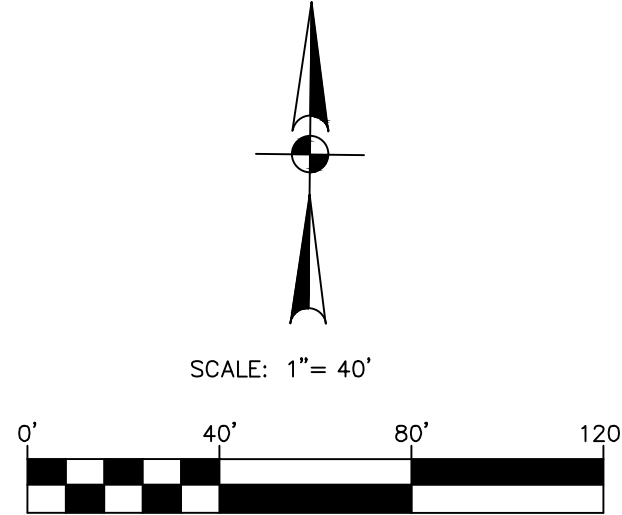
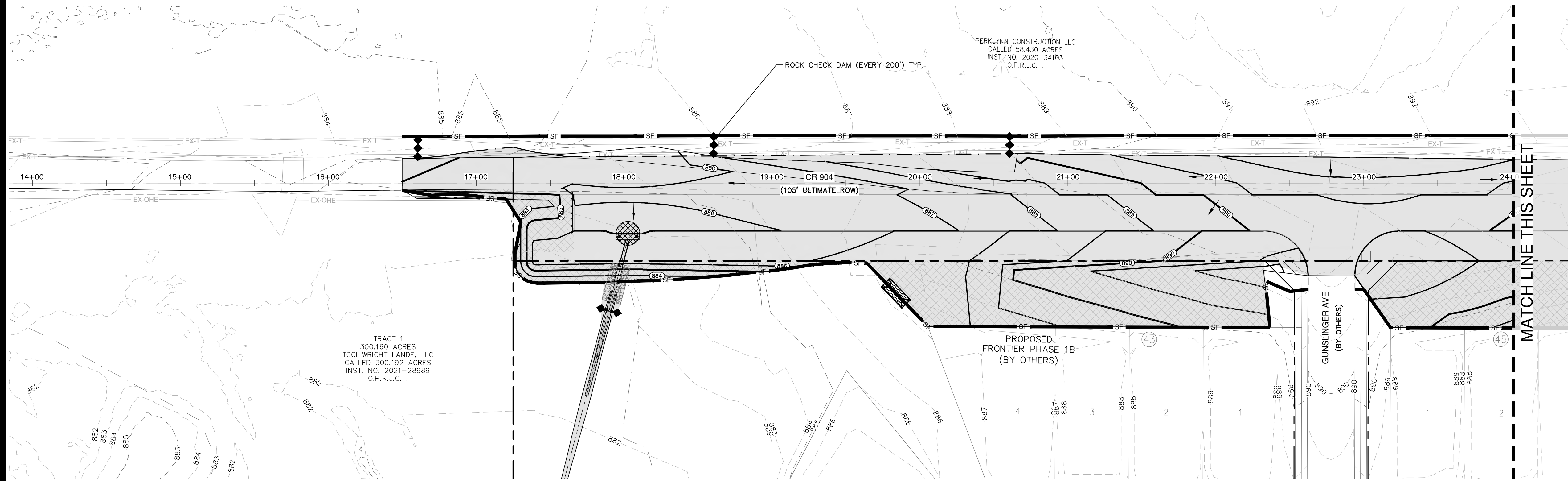
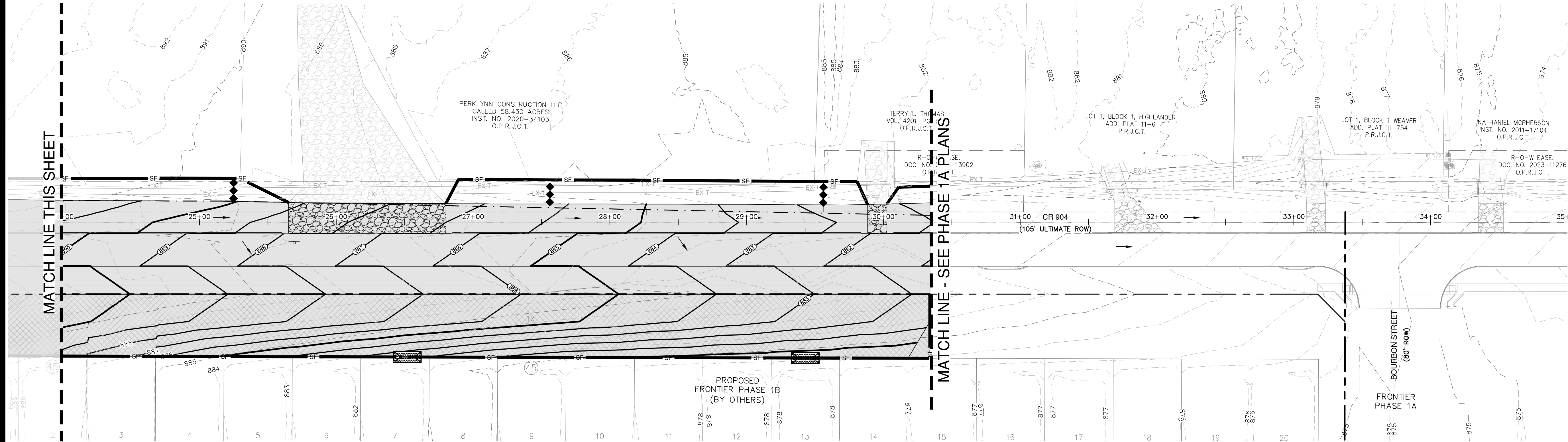
COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

DEMOLITION PLAN

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LEGEND	
	EXISTING CONTOUR
	PROPOSED CONTOUR
	FLOW ARROW
	SILT FENCE
	LIMITS OF DISTURBANCE
	INLET PROTECTION
	CONSTRUCTION ENTRANCE
	ROCK CHECK DAM
	STONE OVERFLOW STRUCTURE
	SLOPE STABILIZATION BLANKET
	GRAVEL PAVEMENT

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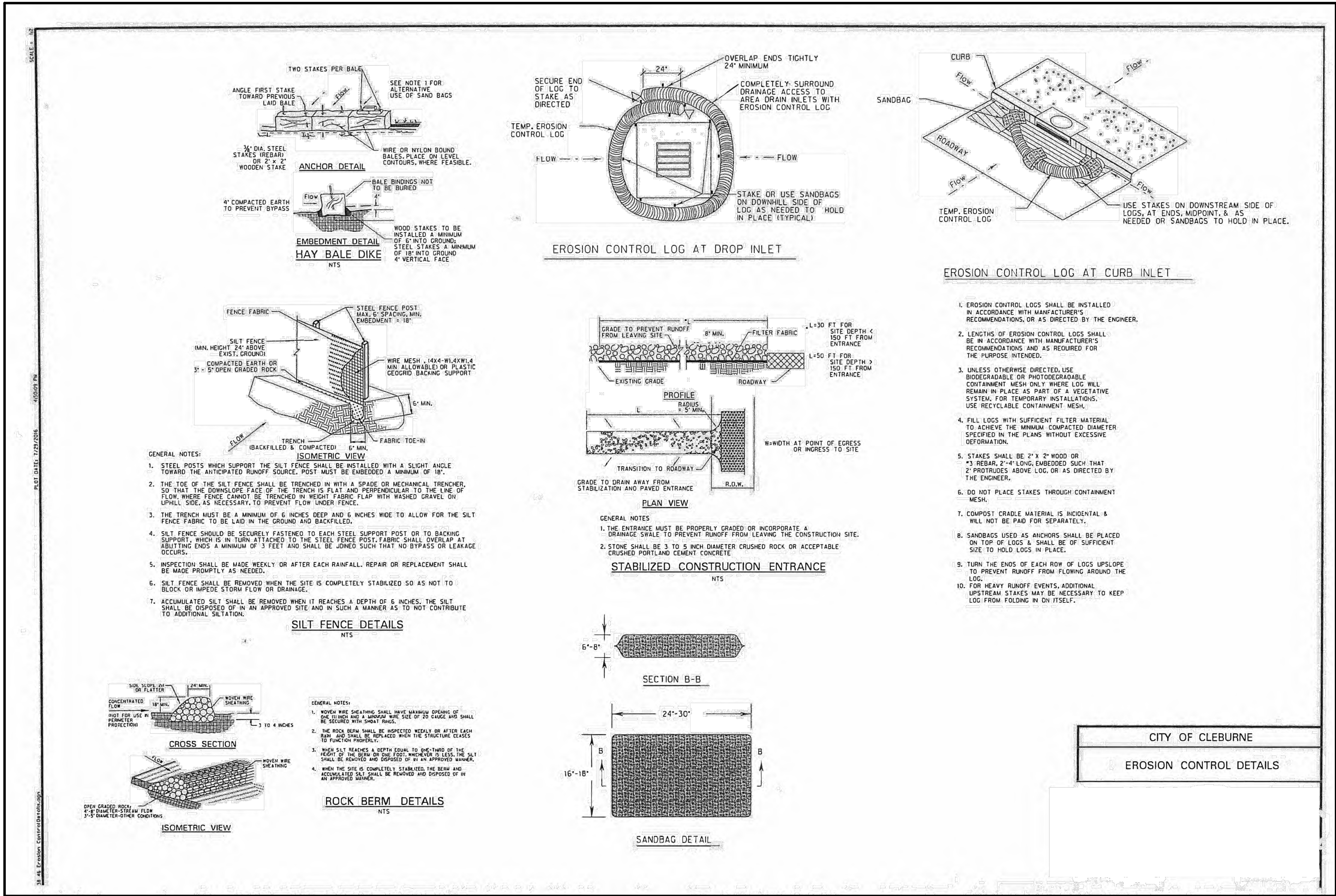
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COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
EROSION CONTROL PLAN

PLAT NO.	N/A
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UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.



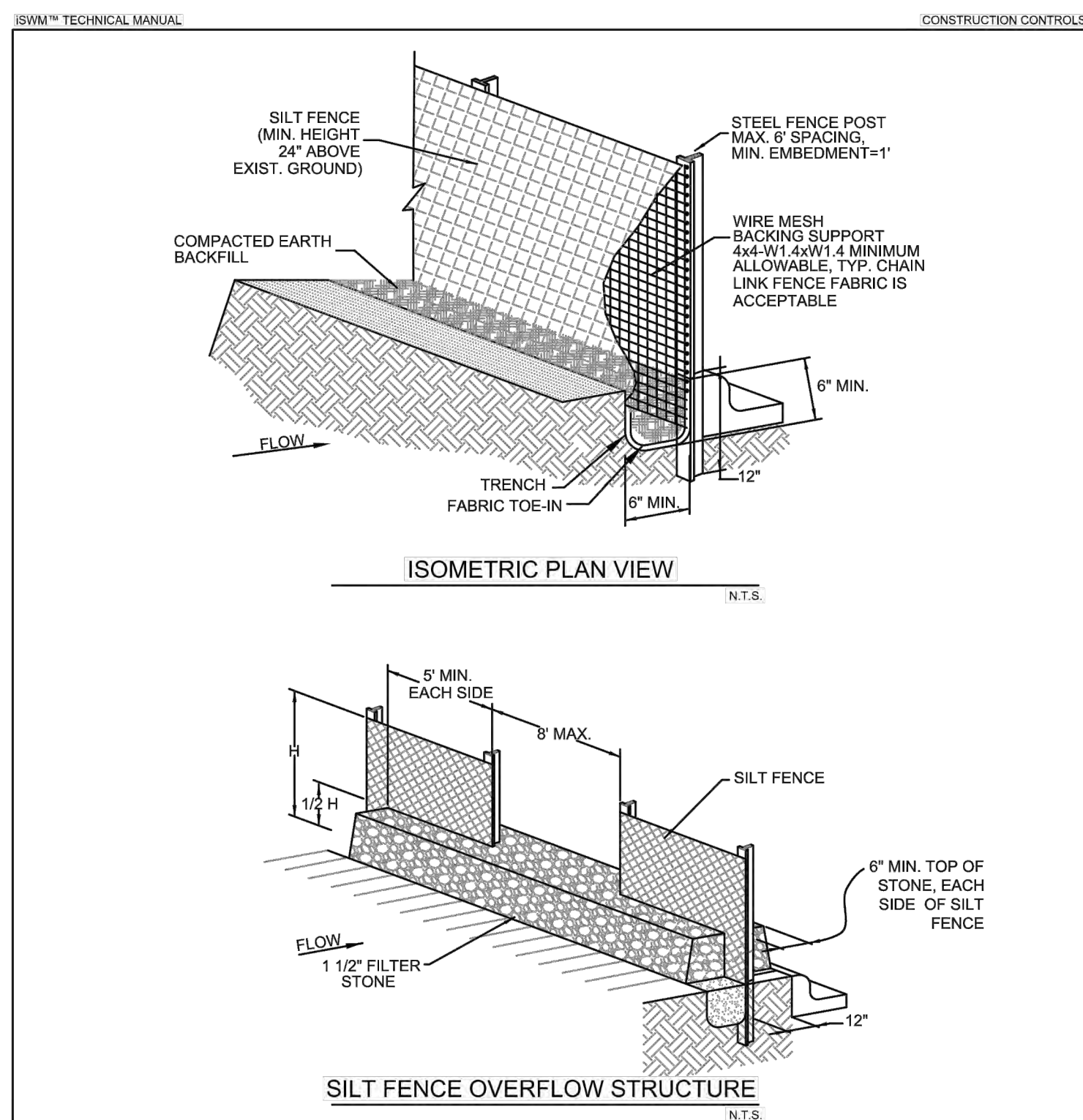


FIGURE 3.28 STANDARD CONSTRUCTION DETAIL - FOR SILT FENCE (1 OF 2)

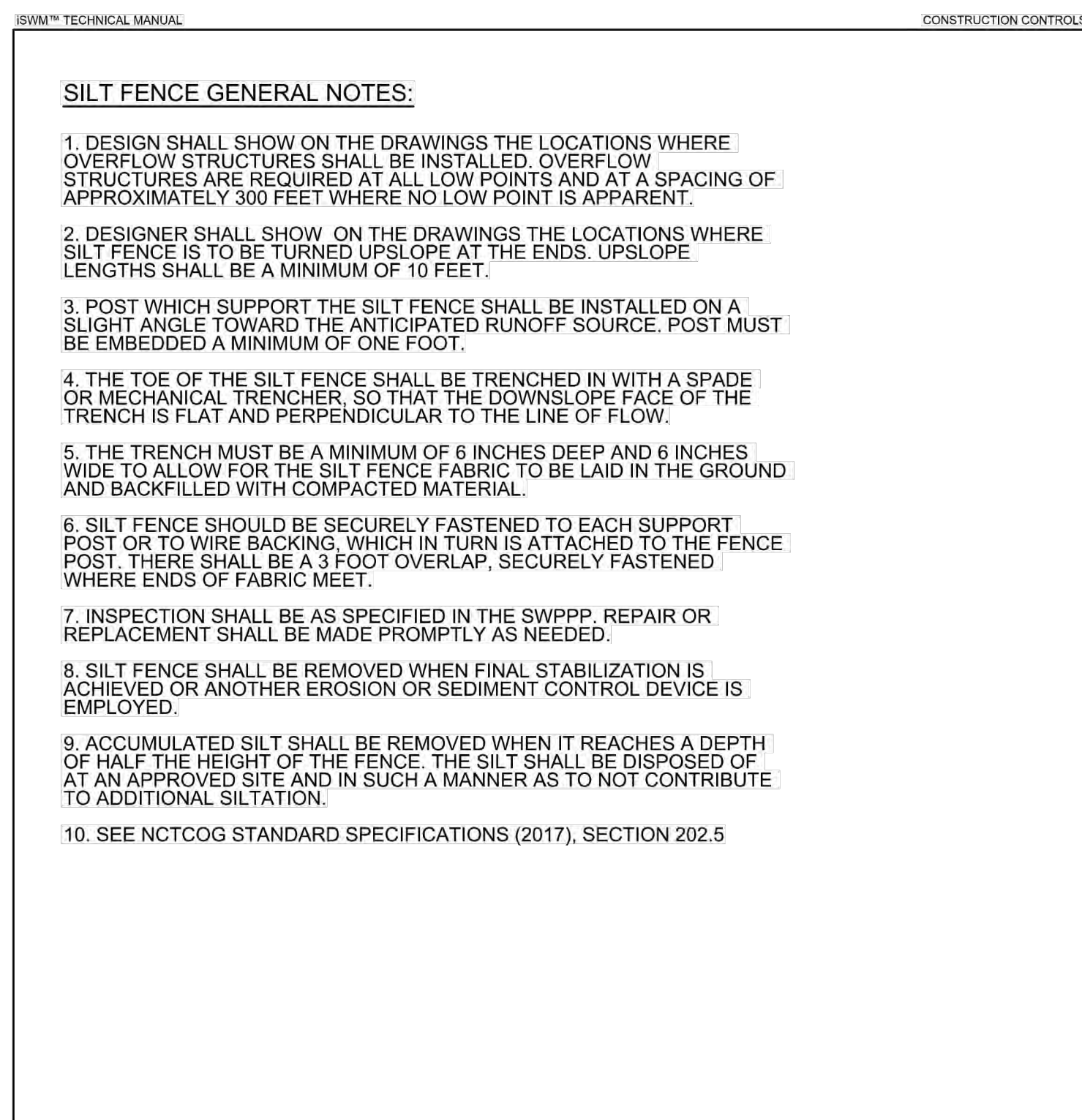


FIGURE 3.28 NOTES FOR SILT FENCE (2 OF 2)

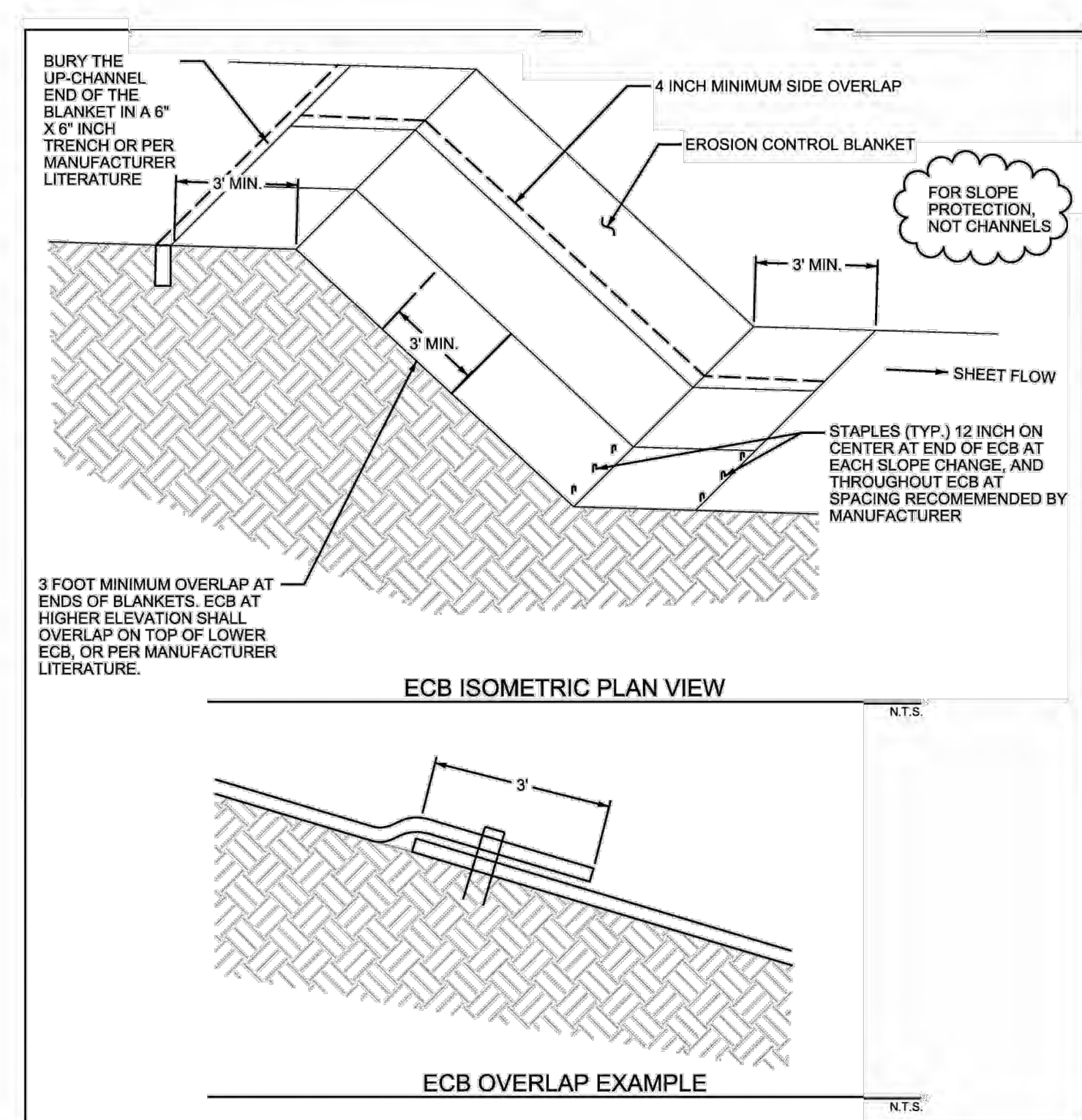


FIGURE 2.7 STANDARD CONSTRUCTION DETAIL -
TEMPORARY EROSION CONTROL BLANKETS (1 OF 2)

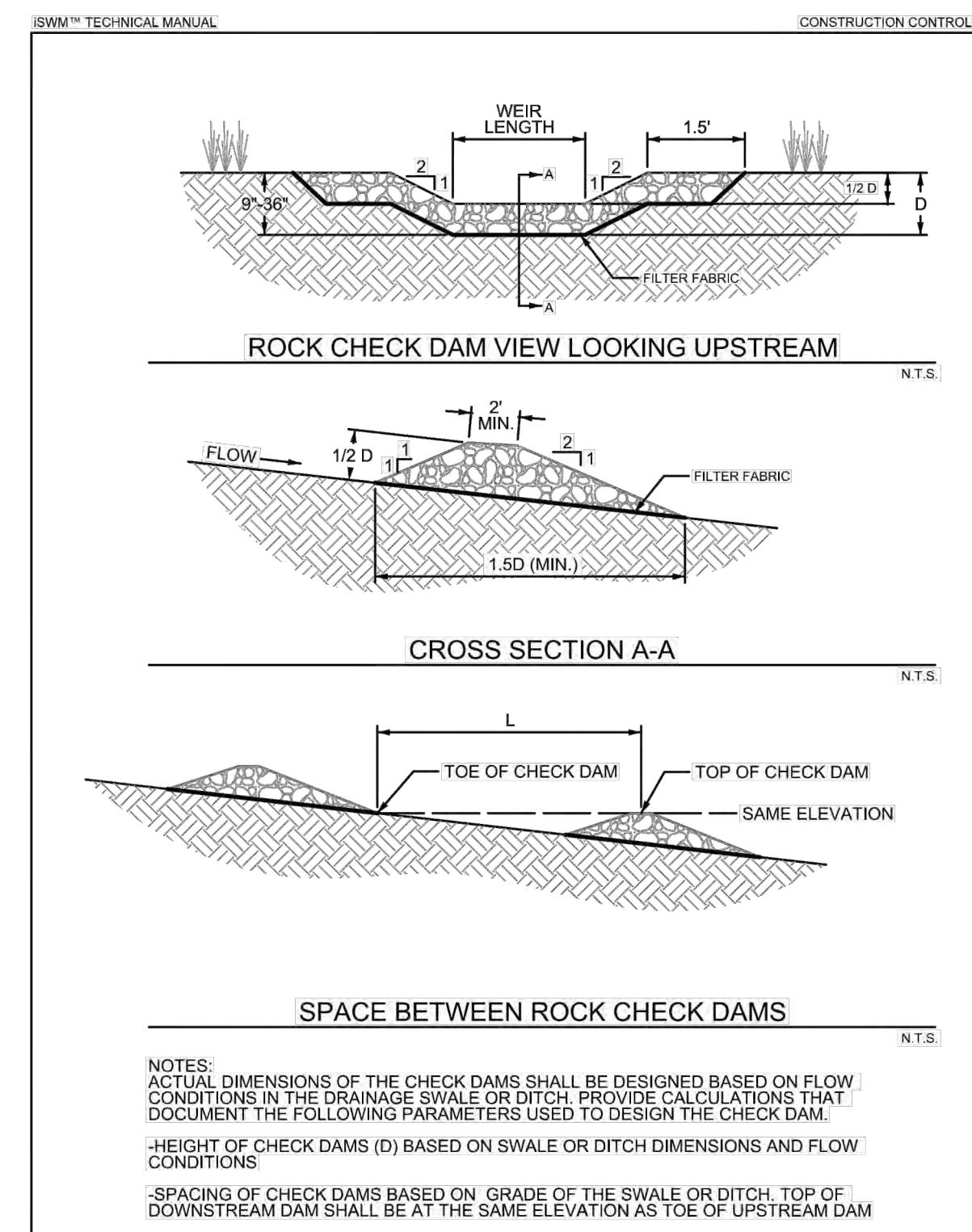


FIGURE 2.1 STANDARD CONSTRUCTION DETAIL - ROCK CHECK DAMS (1 OF 2)

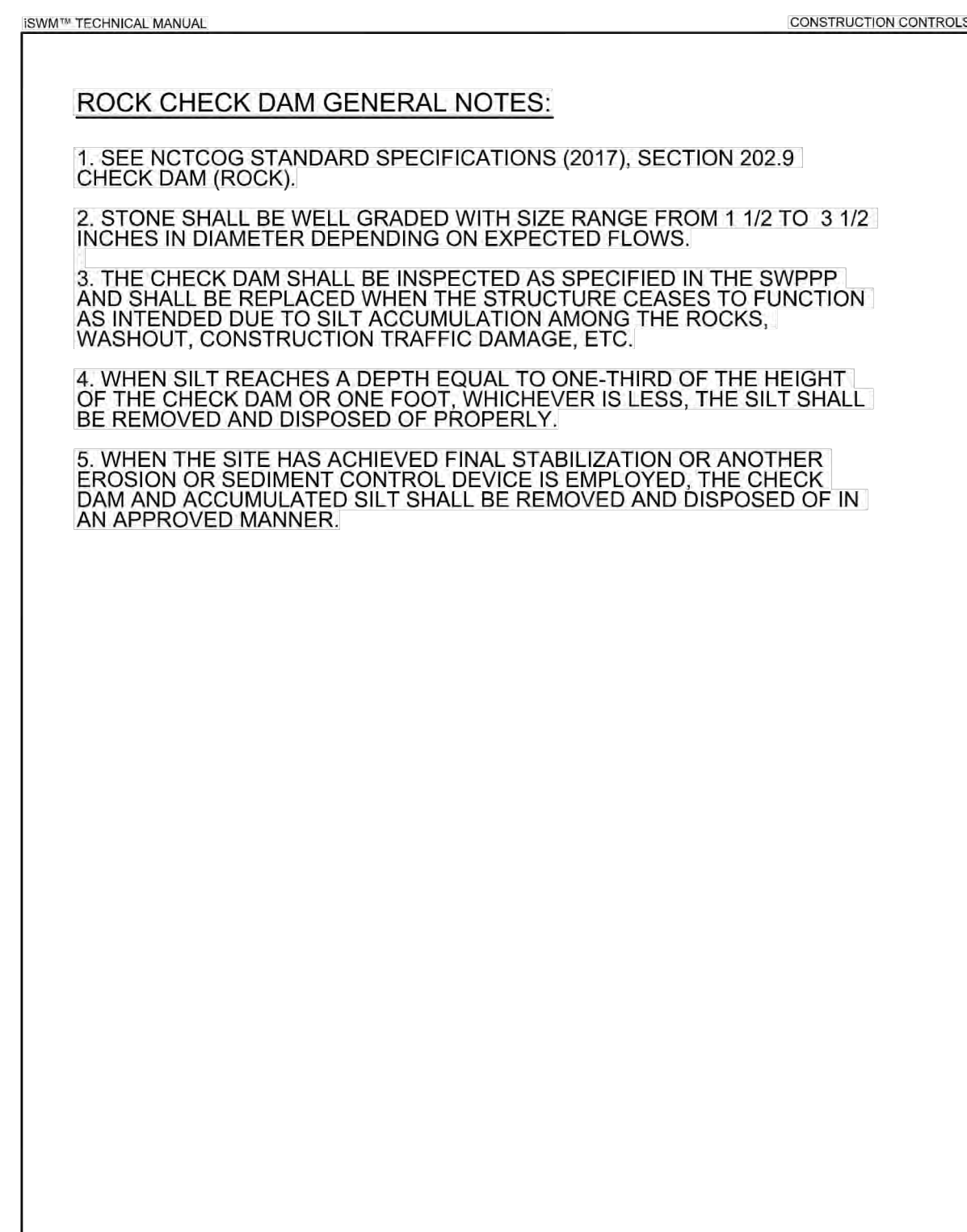


FIGURE 2.1 NOTES ON ROCK CHECK DAM (2 OF 2)

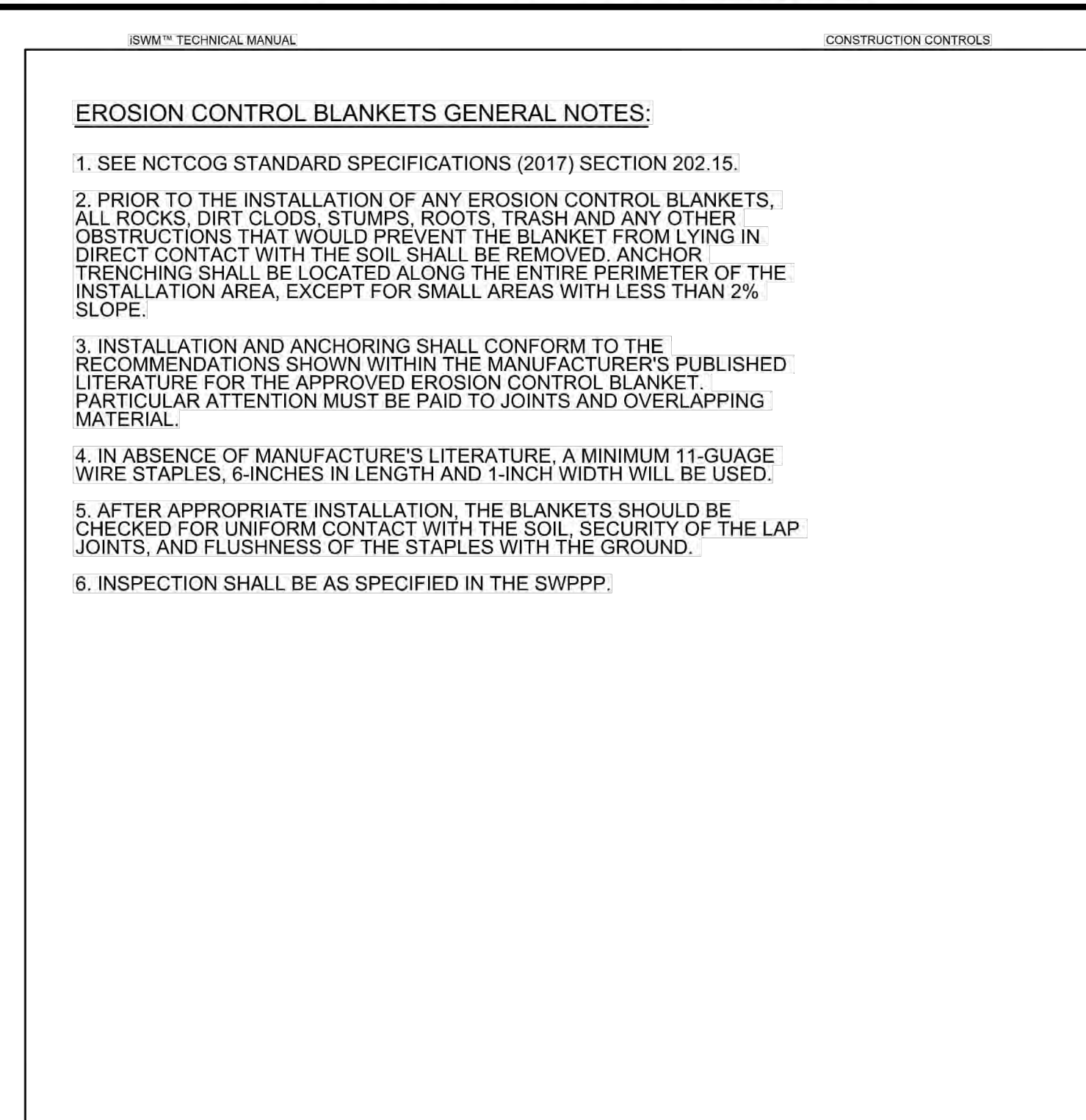
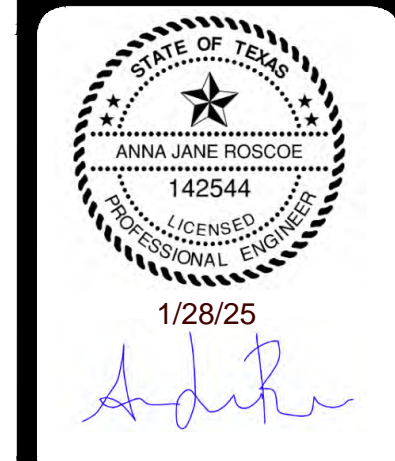


FIGURE 2.7 NOTES ON TEMPORARY EROSION CONTROL BLANKETS (2 OF 2)

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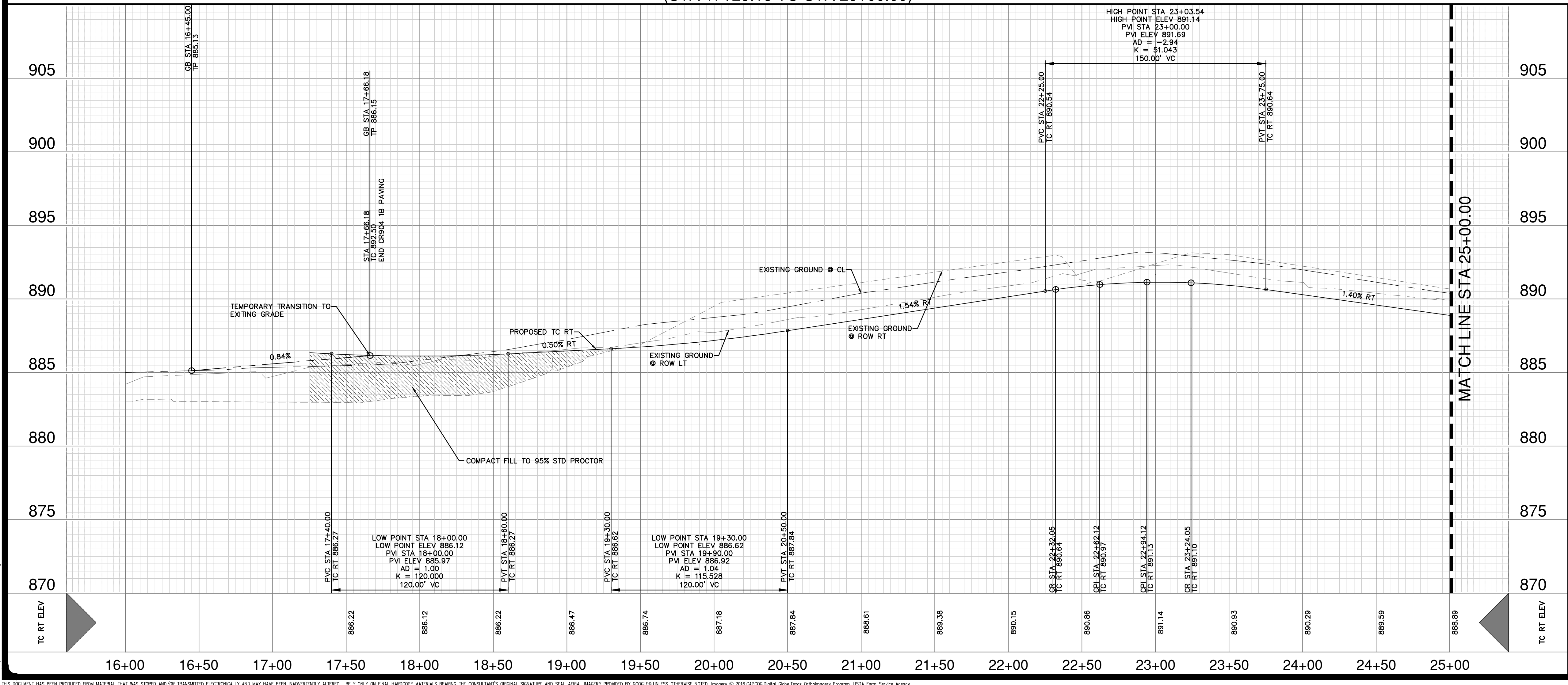
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COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
EROSION CONTROL DETAILS (2)

PLAT NO. N/A
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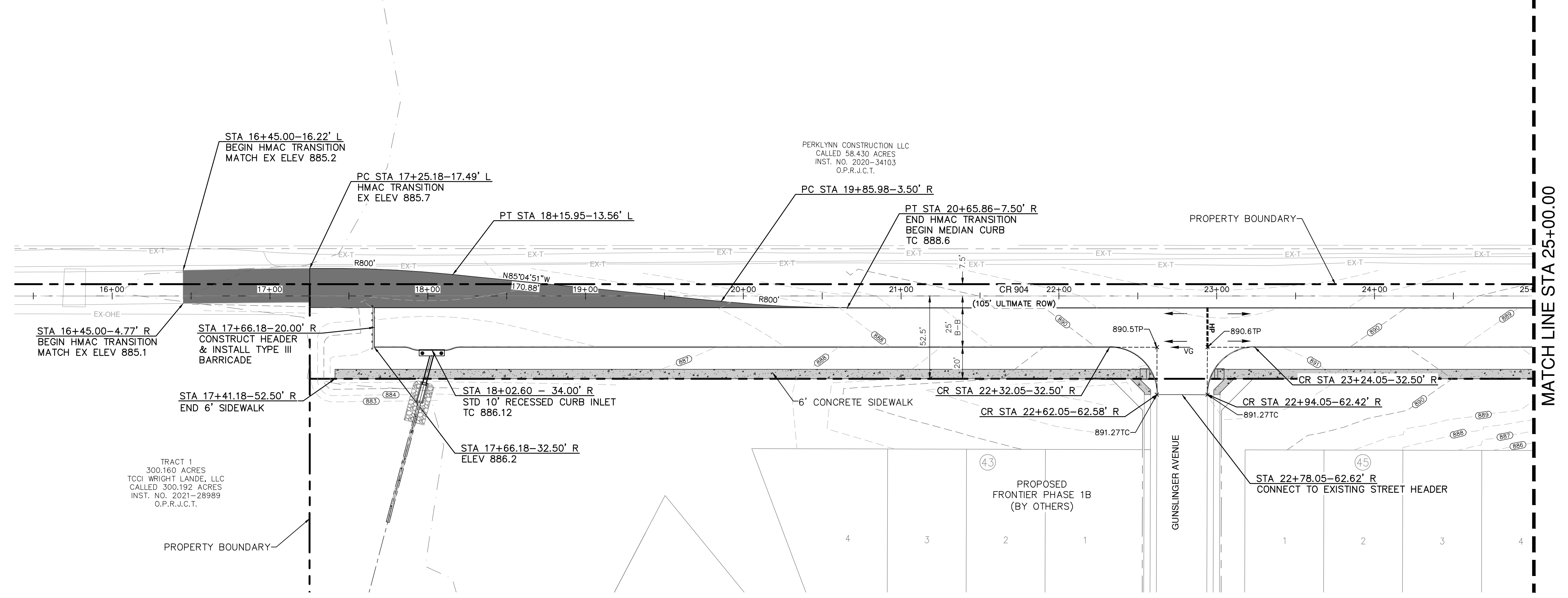


NOTES

- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND WILL BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
- ALL CURB RADII SHALL BE 30' TO BACK OF CURB UNLESS OTHERWISE NOTED.
- SIDEWALK/TRAILS IN COMMON AREAS SHALL BE BUILT AT TIME OF PUBLIC IMPROVEMENTS.
- CONCRETE PAVEMENT SHALL BE MACHINE PLACED EITHER BY MECHANICAL VIBRATORY SCREED OR SLIP FORM PAVER UNLESS OTHERWISE APPROVED BY CITY.
- AT LEAST SIX (6) INCHES OF FLEXIBLE BASE MATERIAL TO BE INSTALLED FOR THE GRAVEL PRIVATE DRIVEWAYS. PRIOR TO PLACEMENT OF THE FLEXIBLE BASE MATERIAL, THE EXPOSED SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES AND COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) AND WITHIN THE RANGE OF 0 TO 4 PERCENTAGE POINTS ABOVE THE MATERIAL'S OPTIMUM MOISTURE CONTENT. (UES REPORT NO. W232725-2-REV1, 01/22/25)

UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.



SCALE: 1" = 40'

LEGEND

- PROPOSED CONCRETE SIDEWALK BY DEVELOPER (THIS CONTRACT)
- PROPOSED ASPHALT PAVEMENT (THIS CONTRACT)
- VALLEY GUTTER
- GRAVEL PAVEMENT

CP#1 HUB 1 1/2" IR N: 6835620.362 E: 2298097.180 ELEV: 876.109

CP#2 HUB 600 NAIL N: 6835859.465 E: 2301451.505 ELEV: 876.579

CP#3 HUB 1 1/2" IR N: 6842154.006 E: 2301645.519 ELEV: 861.768

CP#4 HUB 1 1/2" IR N: 6841086.582 E: 2301645.519 ELEV: 861.768

CP#5 HUB 1 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768

TRACT 1 300.160 ACRES TCOI WRIGHT LANDE, LLC CALLED 300.192 ACRES INST. NO. 2021-28989 O.P.R.J.C.T.

PERKLYNN CONSTRUCTION LLC CALLED 58.430 ACRES INST. NO. 2020-34103 O.P.R.J.C.T.

PROPERTY BOUNDARY

PROPOSED FRONTIER PHASE 1B (BY OTHERS)

GUNSlinger AVENUE

STA 22+78.05-62.62' R CONNECT TO EXISTING STREET HEADER

MATCH LINE STA 25+00.00

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

DATE

NO. REVISION

1/28/25

PAPE-DAWSON ENGINEERS

6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1003800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

PAVING PLAN & PROFILE - COUNTY ROAD 904 (1)

PLAT NO. N/A

JOB NO. 61405-03

DATE 1/28/2025

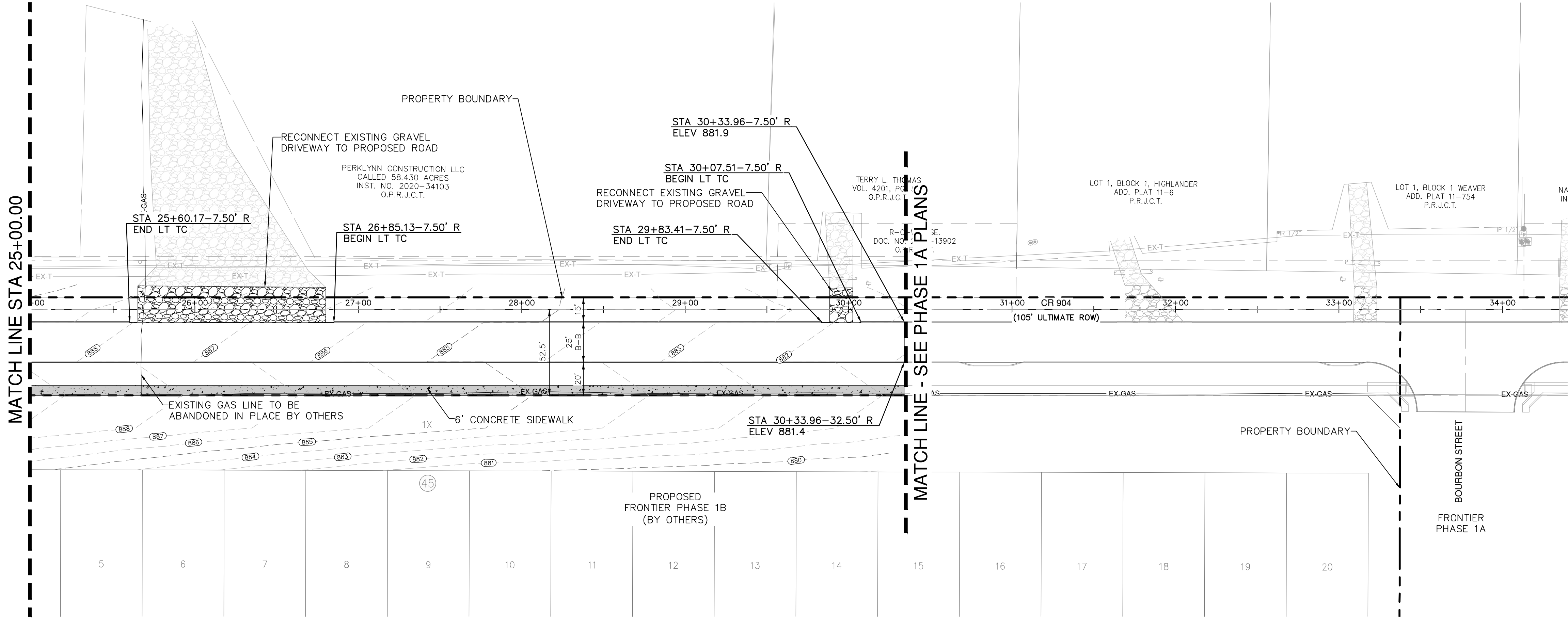
DESIGNER CL

CHECKED AR DRAWN SM

SHEET 7

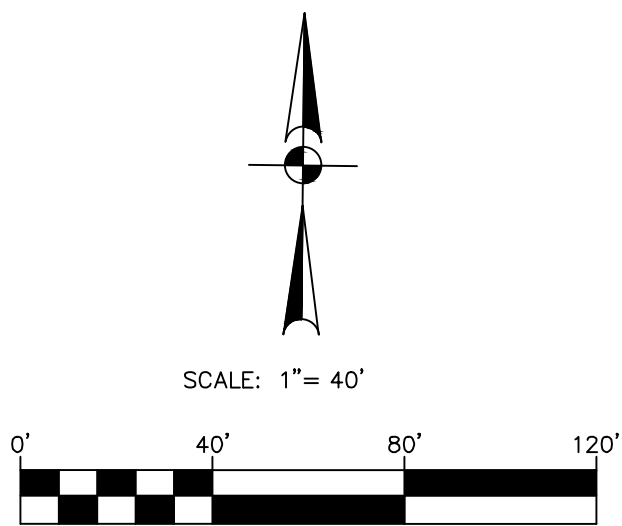
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DESIGN SPEED 40 MPH
COUNTY ROAD 904
(STA 25+00.00 TO END)

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



CP#1	CP#2	CP#3	CP#4	CP#5
HUB 1/2" IR N: 6835620.362 E: 2298097.180	HUB 60D NAIL N: 6838595.405 E: 2298117.060	HUB 1/2" IR N: 6842154.006 E: 2301451.505	HUB 1/2" IR N: 6841066.582 E: 2301645.519	HUB 1/2" IR N: 6842063.285 E: 2298098.802
ELEV: 876.109	ELEV: 876.579	ELEV: 861.768	ELEV: 861.768	ELEV: 861.768

LEGEND

	PROPOSED CONCRETE SIDEWALK BY DEVELOPER (THIS CONTRACT)
	VALLEY GUTTER
	GRAVEL PAVEMENT

NOTES

- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND WILL BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, RETAINING WALLS AND STRUCTURES UNLESS OTHERWISE NOTED.
- ALL CURB RADII SHALL BE 30' TO BACK OF CURB UNLESS OTHERWISE NOTED.
- SIDEWALK/TRAILS IN COMMON AREAS SHALL BE BUILT AT TIME OF PUBLIC IMPROVEMENTS.
- CONCRETE PAVEMENT SHALL BE MACHINE PLACED EITHER BY MECHANICAL VIBRATORY SCREED OR SLIP FORM PAVER UNLESS OTHERWISE APPROVED BY CITY.
- CONTRACTOR TO TURNDOWN CURB AND CONNECT TO EXISTING DRIVEWAY LOCATIONS (SEE DETAIL ON SHEET 19)
- AT LEAST SIX (6) INCHES OF FLEXIBLE BASE MATERIAL TO BE INSTALLED FOR THE GRAVEL PRIVATE DRIVEWAYS. PRIOR TO PLACEMENT OF THE FLEXIBLE BASE MATERIAL, THE EXPOSED SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES AND COMPACTED TO AT LEAST 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) AND WITHIN THE RANGE OF 0 TO 4 PERCENTAGE POINTS ABOVE THE MATERIAL'S OPTIMUM MOISTURE CONTENT. (UES REPORT NO. W232725-2-REV1, 01/22/25)

UTILITY NOTE

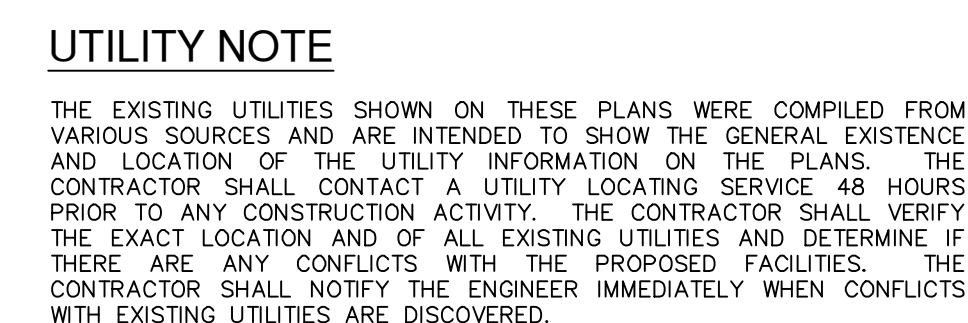
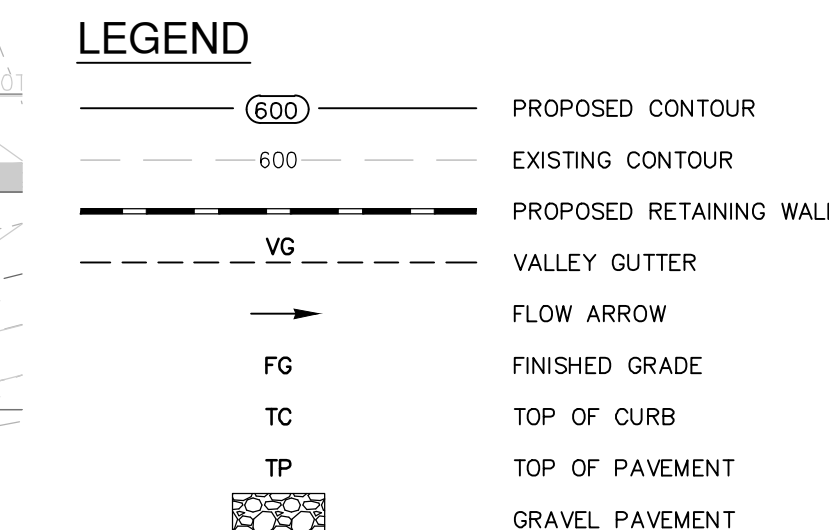
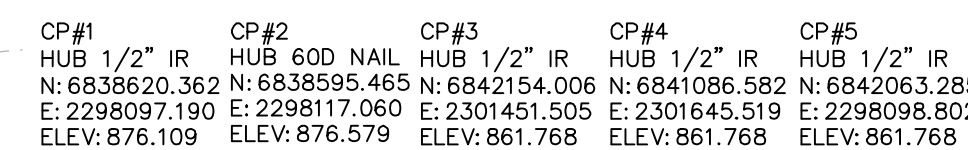
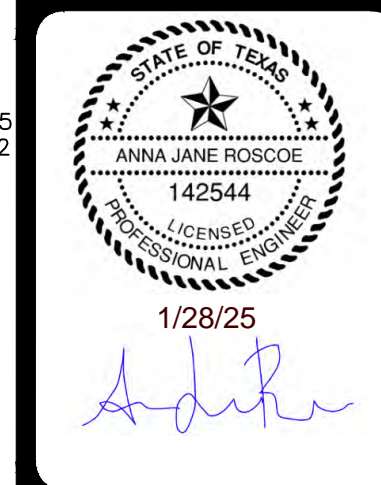
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PAPE-DAWSON
ENGINEERS
6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1002800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
PAVING PLAN & PROFILE - COUNTY ROAD 904 (2)

PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 8

ISSUED FOR CONSTRUCTION SET

[illegible]

**PAPE-DAWSON
ENGINEERS**

6105 TEHNIVSON PKWY, STE 210 | PLANO, TX 75024 | 214.420.6484
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10328800

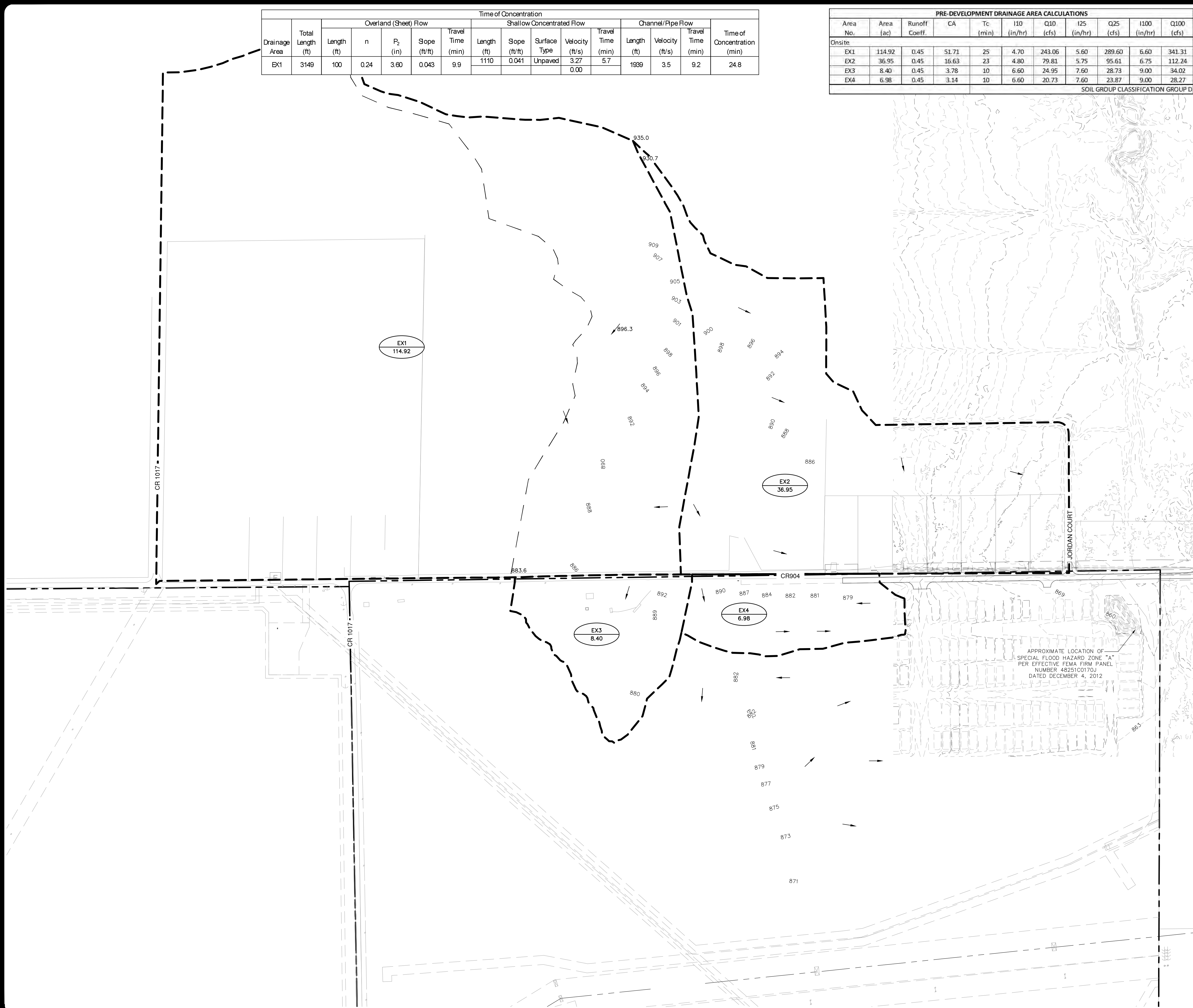
COUNTY ROAD 904 IMPROVEMENTS

CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

GRADING PLAN

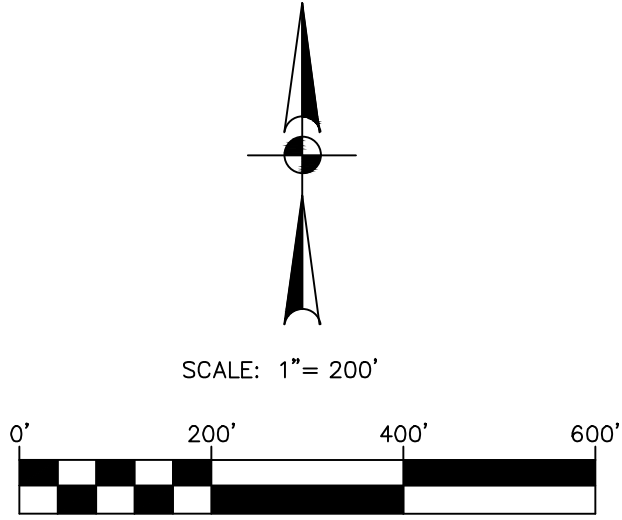
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JOB NO. _____ 61405-03
DATE _____ 1/28/2025
DESIGNER _____ CL
CHECKED _____ AR _____ DRAWN _____ SM
SHEET _____ 9

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Time of Concentration															
Drainage Area	Total Length (ft)	Overland (Sheet) Flow					Shallow Concentrated Flow					Channel/Pipe Flow			Time of Concentration (min)
		Length (ft)	n	P ₂ (in)	Slope (ft/ft)	Travel Time (min)	Length (ft)	Slope (ft/ft)	Surface Type	Velocity (ft/s)	Travel Time (min)	Length (ft)	Velocity (ft/s)	Travel Time (min)	
EX1	3149	100	0.24	3.60	0.043	9.9	1110	0.041	Unpaved	3.27	5.7	1939	3.5	9.2	24.8
										0.00					

PRE-DEVELOPMENT DRAINAGE AREA CALCULATIONS										
Area No.	Area (ac)	Runoff Coeff.	CA	Tc (min)	I10 (in/hr)	Q10 (cfs)	I25 (in/hr)	Q25 (cfs)	I100 (in/hr)	Q100 (cfs)
Onsite										
EX1	114.92	0.45	51.71	25	4.70	243.06	5.60	289.60	6.60	341.31
EX2	36.95	0.45	16.63	23	4.80	79.81	5.75	95.61	6.75	112.24
EX3	8.40	0.45	3.78	10	6.60	24.95	7.60	28.73	9.00	34.02
EX4	6.98	0.45	3.14	10	6.60	20.73	7.60	23.87	9.00	28.27
SOIL GROUP CLASSIFICATION GROUP D										



CP#1 HUB 1/2" IR N: 6838595.465 E: 2298097.190 ELEV: 876.109	CP#2 HUB 60D NAIL N: 6842154.006 E: 2298117.060 ELEV: 876.579	CP#3 HUB 1/2" IR N: 6841086.582 E: 2301645.519 ELEV: 861.768	CP#4 HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768	CP#5 HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768
--	---	--	--	--

LEGEND

- DRAINAGE DIVIDE
- DRAINAGE AREA A-1 1.00 ACRES
- DESIGN POINT 1
- FLOW ARROW
- PROPOSED CONTOUR 600
- EXISTING CONTOUR 600
- EXISTING STORM DRAIN

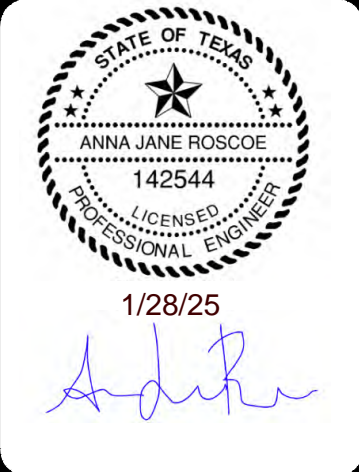
NOTES:

- REFERENCE DRAINAGE REPORT FOR WRIGHT FARMS DATED OCTOBER 18, 2024 FOR DETAILED TIME OF CONCENTRATION CALCULATIONS
- DRAINAGE AREA FOR EX1 BASED ON TOPO FROM FINAL DRAINAGE REPORT.

UTILITY NOTE

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DATE	
NO.	
REVISION	

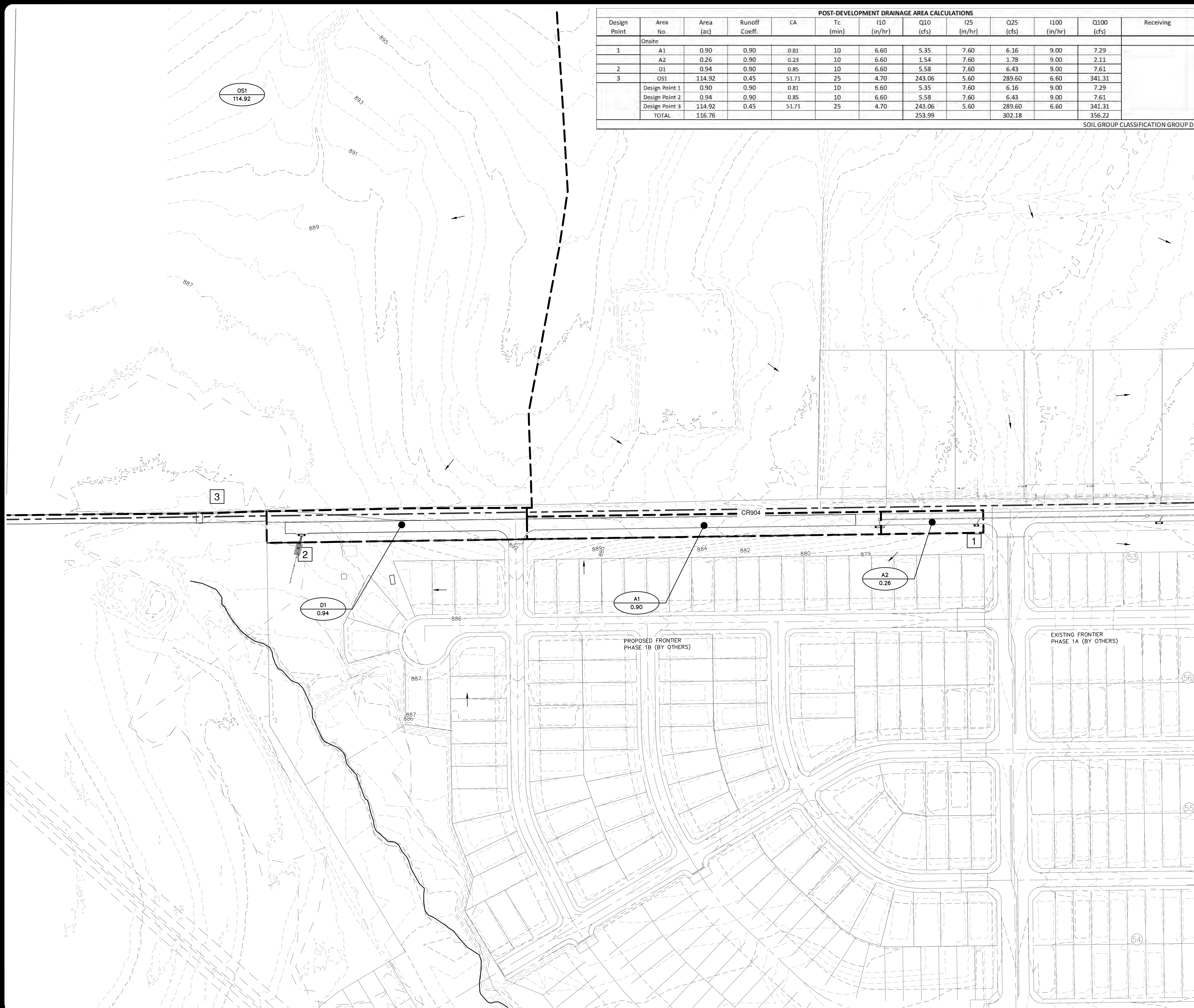


PAPE-DAWSON ENGINEERS
6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1003800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
EXISTING DRAINAGE AREA MAP

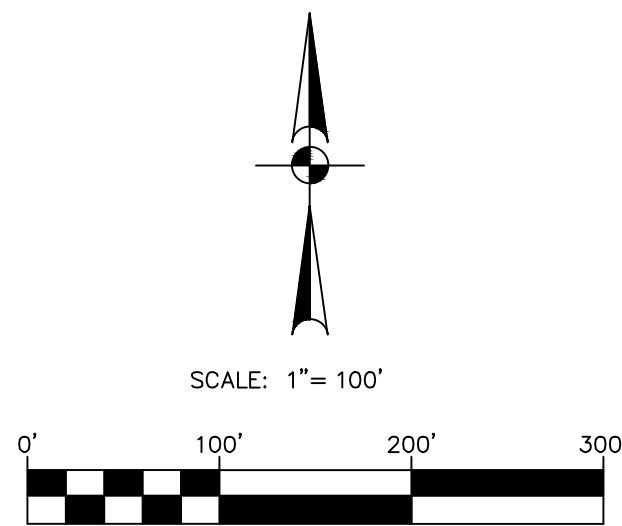
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JOB NO.	61405-03
DATE	1/28/2025
DESIGNER	CL
CHECKED	AR
DRAWN	SM
SHEET	10

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POST-DEVELOPMENT DRAINAGE AREA CALCULATIONS											
Design Point	Area No.	Area (ac)	Runoff Coeff.	CA	Tc (min)	I10 (in/hr)	Q10 (cfs)	I25 (in/hr)	Q25 (cfs)	I100 (in/hr)	Q100 (cfs)
1	Onsite										
	A1	0.90	0.90	0.81	10	6.60	5.35	7.60	6.16	9.00	7.29
2	A2	0.26	0.90	0.23	10	6.60	1.54	7.60	1.78	9.00	2.11
	D1	0.94	0.90	0.85	10	6.60	5.58	7.60	6.43	9.00	7.61
3	OS1	114.92	0.45	51.71	25	4.70	243.06	5.60	289.60	6.60	341.31
	Design Point 1	0.90	0.90	0.81	10	6.60	5.35	7.60	6.16	9.00	7.29
	Design Point 2	0.94	0.90	0.85	10	6.60	5.58	7.60	6.43	9.00	7.61
	Design Point 3	114.92	0.45	51.71	25	4.70	243.06	5.60	289.60	6.60	341.31
TOTAL		116.76					253.99		302.18		356.22

SOIL GROUP CLASSIFICATION GROUP D



LEGEND

- DRAINAGE DIVIDE
- A-1 1.00 DRAINAGE AREA ACRES
- 1 DESIGN POINT
- FLOW ARROW
- 600 PROPOSED CONTOUR
- 600 EXISTING CONTOUR
- == PROPOSED STORM DRAIN

NOTES:

- SEE SHEET 10 FOR FLOW PATH USED FOR TIME OF CONCENTRATION CALCULATIONS

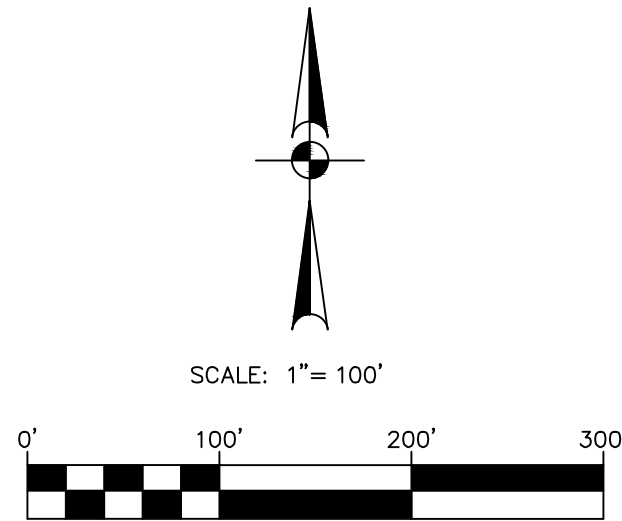
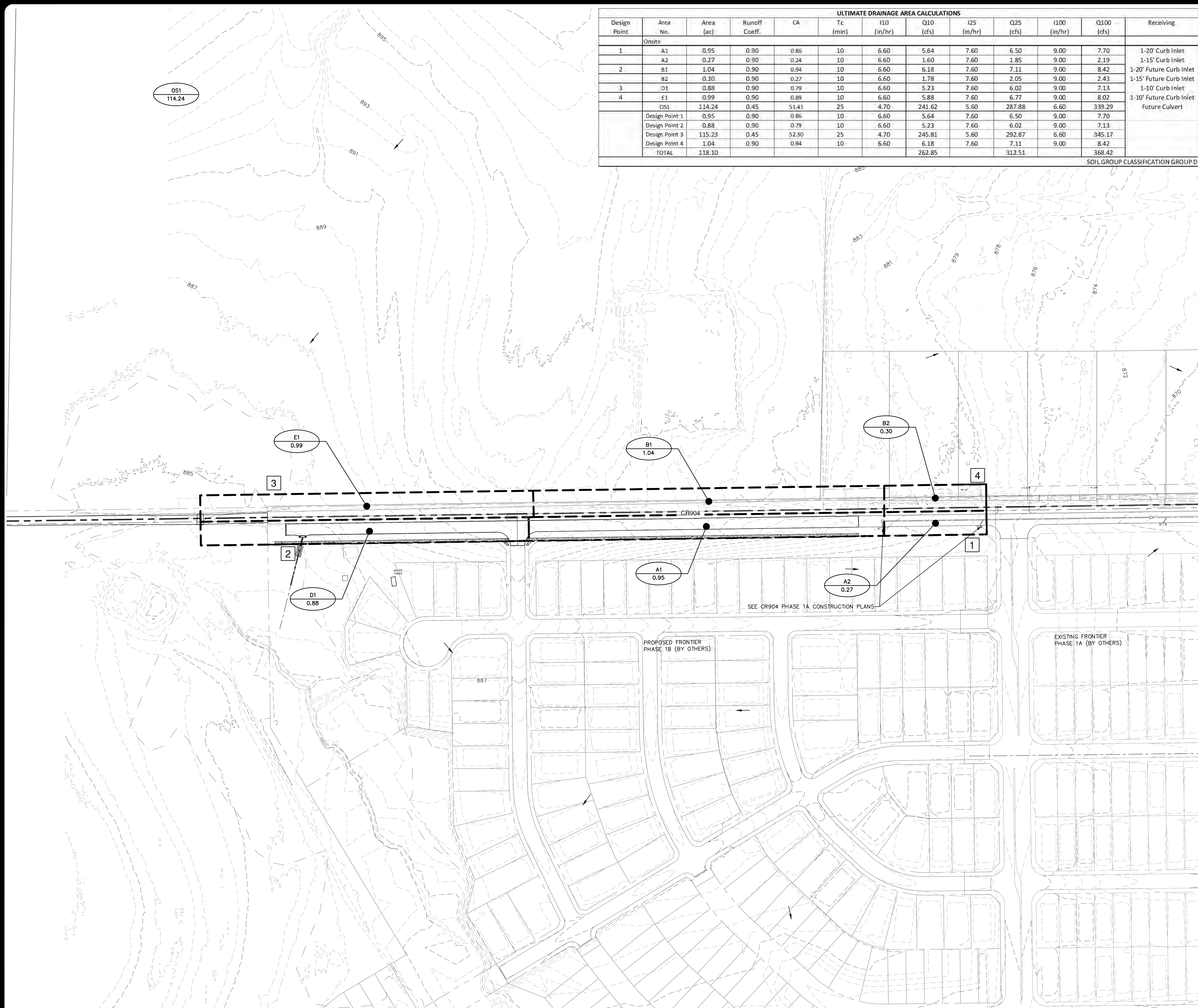
PAPE-DAWSON
ENGINEERS

6105 TENNYSON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1003800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
PROPOSED DRAINAGE AREA MAP

PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 11

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DATE

NO. REVISION

STATE OF TEXAS
ANNA JANE ROSCOE
142544
1/28/25
Anna Jane Roscoe


PAPE-DAWSON
ENGINEERS

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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1003800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
ULTIMATE DRAINAGE AREA MAP

PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 12

CAPACITY OF CURB OPENING INLETS IN SUMPS																																
Design Point	Inlet Inlet No.	Station	Drainage Area				Long Slope "So" (ft./ft.)	Cross Slope of Pavement "Sx" (ft./ft.)	Cross Slope of Gutter "Sx" (ft./ft.)	5 Year								100 Year				5 Yr		Manning Coefficient for Pavement "n"	Design Storm (25 yr or 100 yr)	Depth of Depression "a" (ft.)	Depth of flow at Opening "y" (ft.)	50% Clogging applied				Comments
			Area No	Area (ac.)	Runoff Coeff "C"	Time of Concen. (min.)				Intensity (in./hr)	Runoff Flow (c.f.s.)	Carry Over Flow (c.f.s.)	Gutter Flow "Q" (c.f.s.)	Intensity (in./hr.)	Runoff Flow (c.f.s.)	Carry Over Flow (c.f.s.)	Gutter Flow "Q" (c.f.s.)	Depth of Flow "Q" (ft.)	Spread of Flow "Sp" (ft)	Capacity of Inlet / foot of Length (c.f.s./ft.)	Length of Inlet Opening "L" (ft.)	Capacity of Inlet "Q" (c.f.s.)	Carry Over Into Over Flow (c.f.s.)					Percent 100 Year Flow Captured by Inlet				
1	D1A		D1	0.88	0.90	10.0	0.0050	0.02	0.18	5.71	8.5		4.5	9.00	7.1		7.1	0.22	11.1	0.013	100	0.33	0.65	0.79	15	11.8	0.0	100.0%	14			



STATE OF TEXAS
ANNA JANE ROSCOE
142544
LICENSED
PROFESSIONAL ENGINEER

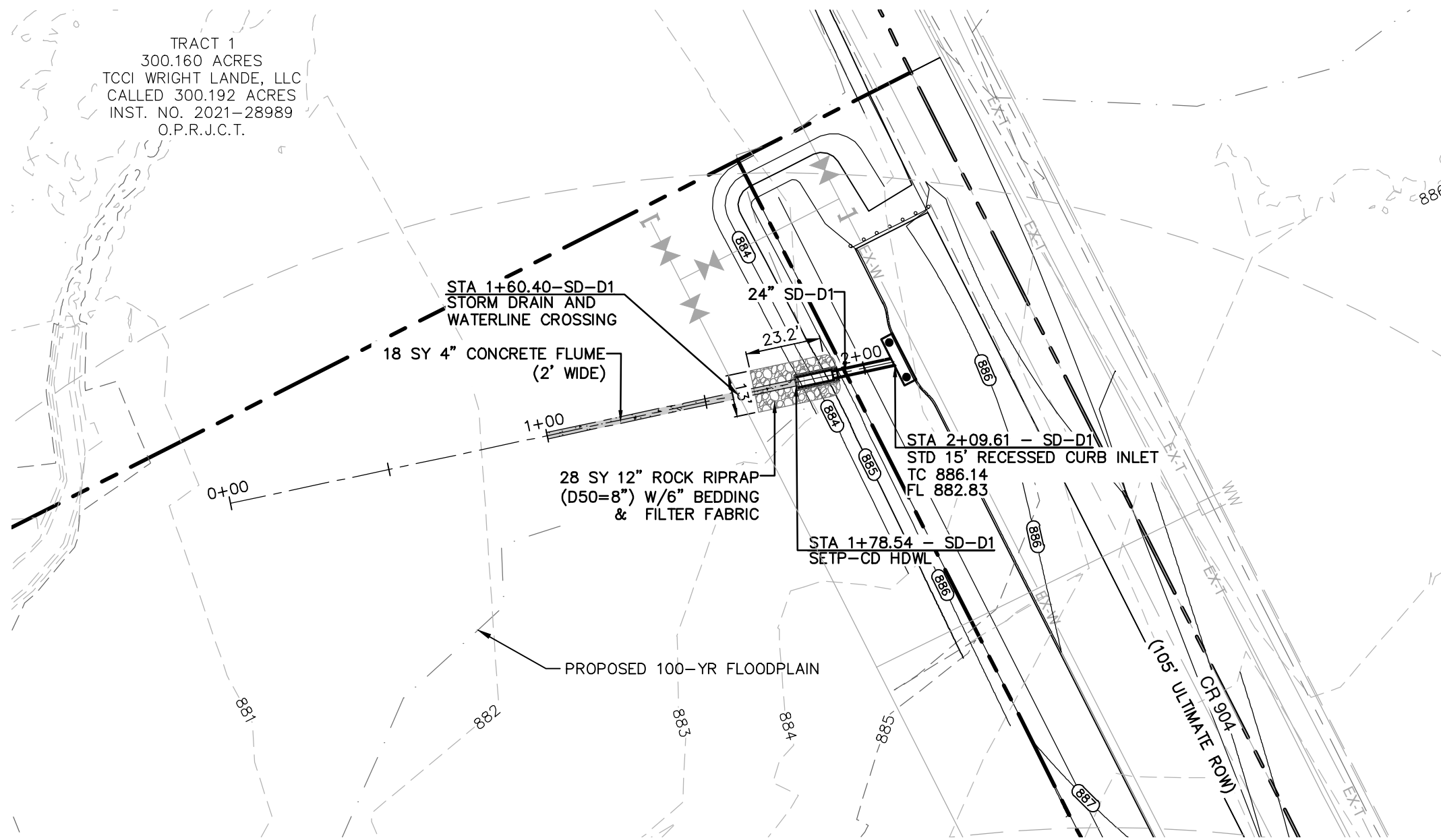
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Anna J. Roscoe



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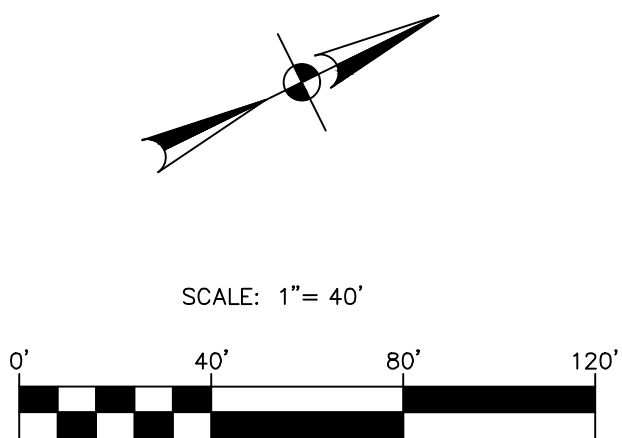
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Gregory Method Riprap Sizing	SD-D1
Vel (fps) =	5.5
g (ft/s ²) =	32.2
f's (pcf) =	160
f'w (pcf) =	62.4
C =	1.8
D ₅₀ (in) =	6.6
D ₉₀ Used =	8
Riprap Thickness (in) =	12
Bedding Thickness (in) =	6
Total Thickness (in) =	18

RIPRAP GRADATION 12" THICKNESS OF RIPRAP		
SIEVE SIZE SQUARE MESH		PERCENT PASSING
15 INCH		100
12 INCH	70 - 100	
8 INCH	45 - 75	
6 INCH	30 - 55	
3 INCH	10 - 30	
1-1/2 INCH	0 - 10	

BEDDING GRADATIONS 6" THICKNESS OF BEDDING		
SIEVE SIZE SQUARE MESH		PERCENT PASSING
3 INCH		100
1-1/2 INCH	55 - 100	
3/4 INCH	25 - 60	
3/8 INCH	5 - 30	
NO. 4	0 - 10	



CP#1 HUB 1/2" IR N: 6838595.465 E: 2298117.060 ELEV: 876.109
CP#2 HUB 60D NAIL N: 6842154.006 E: 2301645.519 ELEV: 876.579
CP#3 HUB 1/2" IR N: 6841086.582 E: 2298098.802 ELEV: 861.768
CP#4 HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768
CP#5 HUB 1/2" IR N: 6842063.285 E: 2298098.802 ELEV: 861.768

- LEGEND**
- PROPOSED WATER LINE
 - PROPOSED GATE VALVE
 - PROPOSED FIRE HYDRANT ASSEMBLY
 - PROPOSED SANITARY SEWER LINE
 - PROPOSED SANITARY SEWER MANHOLE
 - PROPOSED STORM DRAIN
 - PROPOSED CURB INLET
 - PROPOSED JUNCTION BOX



1/28/25
Anna Rosa

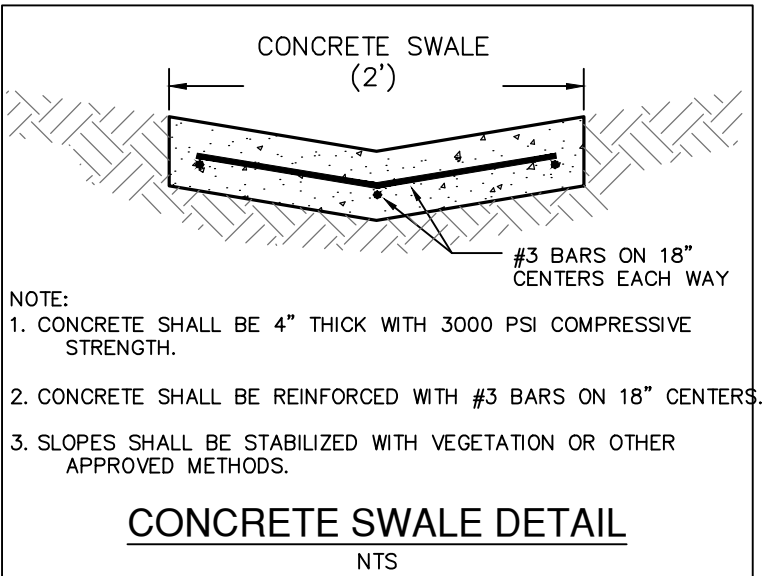
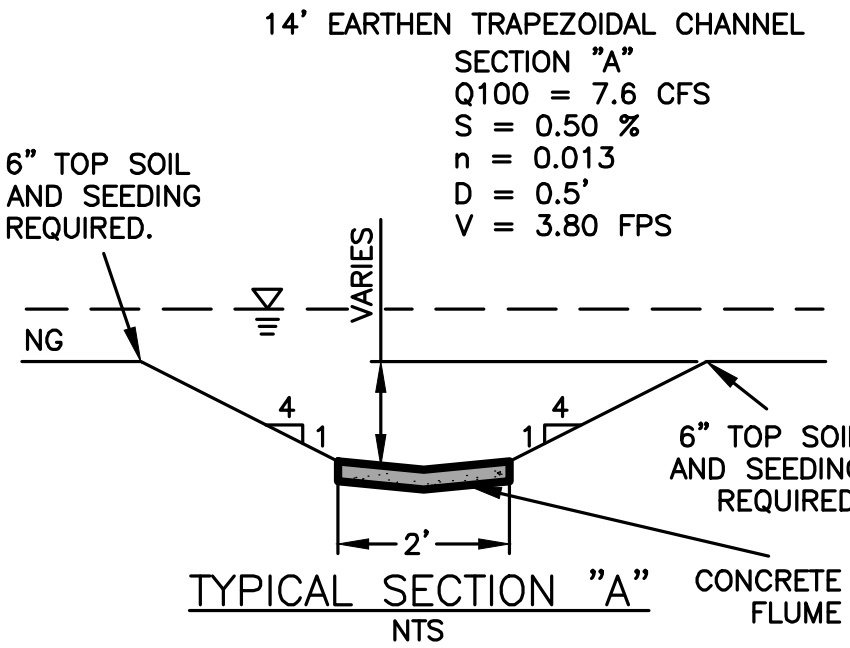
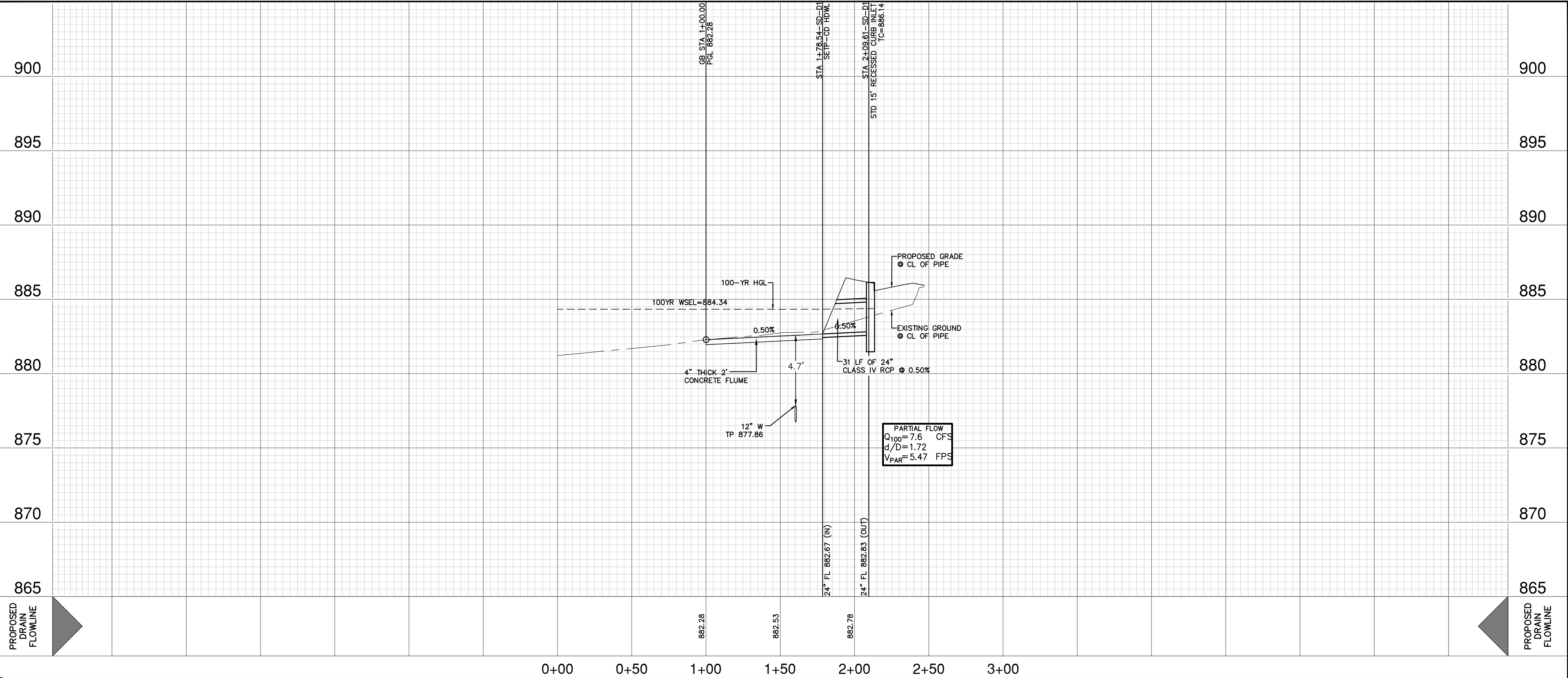
**PAPE-DAWSON
ENGINEERS**
6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1003800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM DRAIN PLAN & PROFILE - SD-A2

PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER CL
CHECKED AR DRAWN SM
SHEET 14

SD-D1
(STA 0+00.00 TO END)

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

ISSUED FOR CONSTRUCTION SET

Plan view of CR 904 showing existing asphalt pavement, proposed improvements, and future phases. The diagram includes stationing from 16+00 to 20+00. Key features include:

- EXISTING ASPH. PAVEMENT:** Indicated by a hatched pattern.
- PROPOSED IMPROVEMENTS:** Shown as a solid line with a cross-hatched pattern.
- EX-T (Existing Traffic):** Indicated by arrows pointing left and right.
- EX-GAS (Existing Gas):** Indicated by dashed lines.
- EX-W (Existing Water):** Indicated by a dashed line.
- FUTURE FRONTIER PHASE 1B:** A large area to the right of the main road section, outlined with a dashed line.

[illegible]

105' R.O.W.

52.5'

EXISTING ASPHALT ROAD

WIDTH VARIES (20.0' MIN.)

7.5'

25'

18.5'

14.0'

6.0'

EXISTING GROUND

EX CR904

SOUTH R.O.W.

STAGE 1A, CONSTRUCT 18.5 FEET OF PROPOSED PAVEMENT AND CURB

STAGE 1A SECTION DETAIL

NOT-TO-SCALE

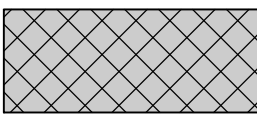
The plan view shows a cross-section of the road project. Key features include:

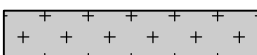
- CR 904**: A vertical dashed line indicating a centerline or boundary.
- Stationing**: Marked at 17+00, 18+00, 19+00, and 20+00 along the horizontal axis.
- EX-GAS**: Labels above the main road section.
- EX-T**: Labels above the road section, likely representing existing traffic lanes.
- EXISTING ASPH. PAVEMENT**: A label pointing to the current pavement surface.
- CONSTRUCTOR TO MAINTAIN ACCESS FOR TWO-WAY ONE LANE TRAFFIC (SEE TRAFFIC CONTROL DETAILS)**: A note indicating required access during construction.
- STAGE 1B, CONSTRUCT ASPHALT TRANSITION AND PROPOSED PAVEMENT FOR WESTBOUND TRAFFIC**: The primary construction objective for this stage.
- EX-W**: Labels below the road section, likely representing existing waterways or shoulders.
- FUTURE FRONTIER PHASE 1B**: A label further down the page, indicating the next phase of the project.


SCALE: 1" = 40'


CP#1	CP#2	CP#3	CP#4	CP#5
HUB 1/2" IR	HUB 60D NAIL	HUB 1/2" IR	HUB 1/2" IR	HUB 1/2" IR
N: 6838620.362	N: 6838595.465	N: 6842154.006	N: 6841086.582	N: 6842063.28
E: 2298097.190	E: 2298117.060	E: 2301451.505	E: 2301645.519	E: 2298098.80
ELEV: 876.109	ELEV: 876.579	ELEV: 861.768	ELEV: 861.768	ELEV: 861.768

LEGEND

 STAGE 1A, CONSTRUCT 18.5 FEET OF PROPOSED PAVEMENT, CURB AND DRIVEWAY

 STAGE 1B, CONSTRUCT ASPHALT TRANSITION AND PROPOSED PAVEMENT FOR WESTBOUND TRAFFIC

 EXISTING EDGE OF ASPHALT PAVEMENT

 PROPOSED TRAVEL LANE DIRECTIONS

NOTES

1. MINIMUM OF ONE-LANE TWO-WAY TRAFFIC TO BE OPEN AT ALL TIMES WITH CHANNEL DEVICES WHERE CONNECTING TO EXISTING ASPHALT ROAD.
2. STAGE 1A TRAFFIC SHALL CONTINUE ON EXISTING ASPHALT ROAD FOR EASTBOUND AND WESTBOUND DIRECTIONS.
3. STAGE 1B, 2A & 2B TRAFFIC SHALL CONTINUE ON EXISTING ASPHALT ROAD FOR THE EASTBOUND DIRECTION AND ON PROPOSED CONCRETE FOR EASTBOUND DIRECTION.
4. STAGE 3 TRAFFIC SHALL CONTINUE ONTO PROPOSED CONCRETE ROAD FOR BOTH EASTBOUND AND WESTBOUND DIRECTION.
5. CONTRACTOR SHALL MAINTAIN HOME ACCESS THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO PHASE DRIVEWAY AND ROAD CONSTRUCTION TO ACHIEVE FULL ACCESS AT ALL TIMES. CONTRACTOR SHALL USE TEMPORARY GRAVEL/FLEXBASE ROADS TO ACHIEVE ACCESS AS NECESSARY.

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

STAGE 1A & STAGE 1B
CONSTRUCTION PHASING PLAN

PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER SM
CHECKED AR DRAWN SM
SHEET 15

Plan view of CR 904 showing stationing from 16+00 to 20+00. The diagram includes labels for EX-GAS, EX-T, EX-W, and EXISTING ASPH. PAVEMENT. It shows the layout of the road, including a bridge structure and a culvert, with station markers and directional arrows.

FUTURE FRONTIER PHASE 1B

The plan view shows a cross-section of the road improvement project. On the left, there is a hatched area labeled "EXISTING ASPH. PAVEMENT". To its right is a dashed line labeled "EX-T" (existing top of travel). Further right is a solid line labeled "EX-W" (existing width of travel). The road surface is shown with a hatched pattern. Stationing markers are placed along the road: 26+00, 27+00, 28+00, 29+00, and 30+00. A north arrow points towards the upper right corner. In the upper right corner, the following text is present:

PERKLYNN CONSTRUCTION LLC
CALLED 58.430 ACRES
INST. NO. 2020-34103, O.P.R.J.C.T.

FUTURE FRONTIER PHASE 1B

Plan view of Stage 2B construction area. The diagram shows a cross-section of a road with multiple lanes. Key features include:

- CR 904** at station **17+00**.
- STAGE 2B, CONSTRUCT ASPHALT TRANSITION WESTBOUND TRAFFIC** (indicated by a hatched area).
- EXISTING ASPH. PAVEMENT** (indicated by a dashed line).
- CONSTRUCTOR TO MAINTAIN ACCESS FOR TWO-WAY TRAFFIC (SEE TRAFFIC CONTROL DETAILS)** (indicated by a hatched area).
- EX-GAS** (Existing Gas) and **EX-T** (Existing Traffic) labels.
- EX-W** (Existing Water) label.
- 18+00**, **19+00**, and **20+00** station markers.
- 2** (Lane count) label.

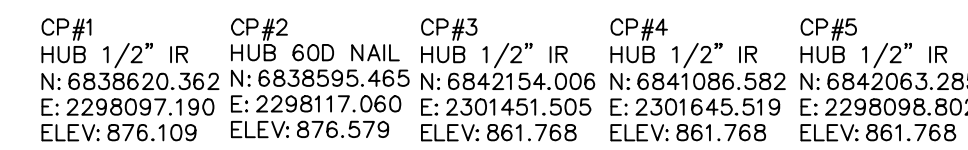
FUTURE FRONTIER PHASE 1B

FUTURE FRONTIER PHASE 1B

Plan view of Stage 2A construction. The diagram shows a cross-section of the road and surrounding area. Key features include:

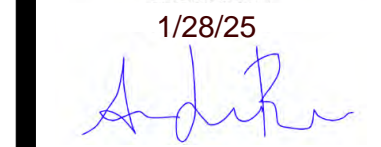
- EXISTING ASPHALT ROAD**: The current road surface.
- EXISTING GROUND**: The natural ground level.
- STAGE 2A, DEMOLISH +/- 5' OF EXISTING ASPHALT ROAD**: Indicated by a downward arrow and a dashed line.
- STAGE 2A, CONSTRUCT REMAINDER TO BACK OF CURB AND TRANSITION TO EXISTING**: Indicated by an upward arrow and a dashed line.
- EX. CR004**: A vertical utility line.
- WIDTH VARIES (20.0' MIN.)**: A dimension indicating the width of the road.
- Dimensions**: Various horizontal dimensions are provided, including 52.5', 7.5', 25', 18.5', 14.0', and 6.0'.
- 105' R.O.W.**: Right-of-Way boundary.
- SOUTH R.O.W.**: South Right-of-Way boundary.
- 4:1 (MAX)**: A slope indicator for the ground profile.

STAGE 2A SECTION LANE DETAIL



NOTES

- ### UTILITY NOTE

[illegible]

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

STAGE 2A & STAGE 2B
CONSTRUCTION PHASING PLAN

Date: April 21, 2023, 2:23 PM - User ID: AROSCOE
File: S:\projects\614\05103\2.0 Design\2.4 Civil\2.4.3 Plan Sheets\CR
904\PHAS 2-6140503-CR904.dwg

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE© UNLESS OTHERWISE NOTED. Imagery © 2016 CAPCO/Global GlobeTexas OrthoImagery Program. USDA Farm Service Agency

ISSUED FOR CONSTRUCTION SET

EX-GAS EX-GAS EX-GAS EX-GAS EX-GAS

EX-T EX-T EX-T EX-T EX-T

16+00 17+00 18+00 19+00 20+00

CR 904

EX-W EX-W EX-W EX-W EX-W

SCALE: 1" = 40'

PERKLYNN CONSTRUCTION LLC
CALLED 58.430 ACRES
INST. NO. 2020-34103, O.P.R.J.C.T.

CR 904

EX-GAS
EX-T
EX-W
EX-GAS
EX-T
EX-W
EX-GAS

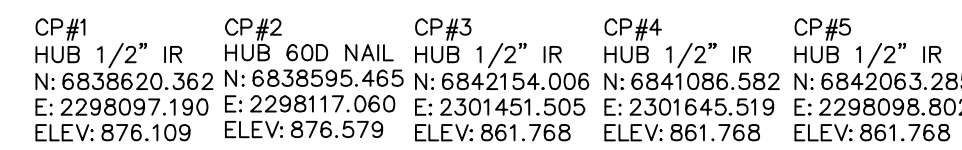
21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00

FUTURE FRONTIER PHASE 1B

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCALE: 1" = 40'

NOT-TO-SCALE



STAGE 3, DEMOLISH REMAINDER
OF EXISTING ASPHALT ROAD
AND CONSTRUCT DRIVEWAYS

EXISTING EDGE OF ASPHALT
PAVEMENT
PROPOSED TRAVEL LANE DIRECTIONS

1. MINIMUM OF ONE-LANE TWO-WAY TRAFFIC TO BE OPEN AT ALL TIMES WITH CHANNEL DEVICES WHEN CONNECTING TO EXISTING ASPHALT ROAD.
2. STAGE 1A TRAFFIC SHALL CONTINUE ON EXISTING ASPHALT ROAD FOR EASTBOUND AND WESTBOUND DIRECTIONS.
3. STAGE 1B, 2A & 2B TRAFFIC SHALL CONTINUE ON EXISTING ASPHALT ROAD FOR THE EASTBOUND DIRECTION AND ON PROPOSED CONCRETE FOR EASTBOUND DIRECTION.
4. STAGE 3 TRAFFIC SHALL CONTINUE ONTO PROPOSED CONCRETE ROAD FOR BOTH EASTBOUND AND WESTBOUND DIRECTION.
5. CONTRACTOR SHALL MAINTAIN HOME ACCESS THROUGHOUT DURATION OF CONSTRUCTION, CONTRACTOR TO PHASE DRIVEWAY AND ROAD CONSTRUCTION TO FULL ACCESS AT ALL TIMES. CONTRACTOR SHALL USE TEMPORARY GRAVEL/FLEXROAD ROPS TO ACHIEVE ACCESS AS NECESSARY.

THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY ADDITIONAL UNRECORDED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

[illegible]

1/28/25

Adrian



**PAPE-DAWSON
ENGINEERS**

6105 TENNYSON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

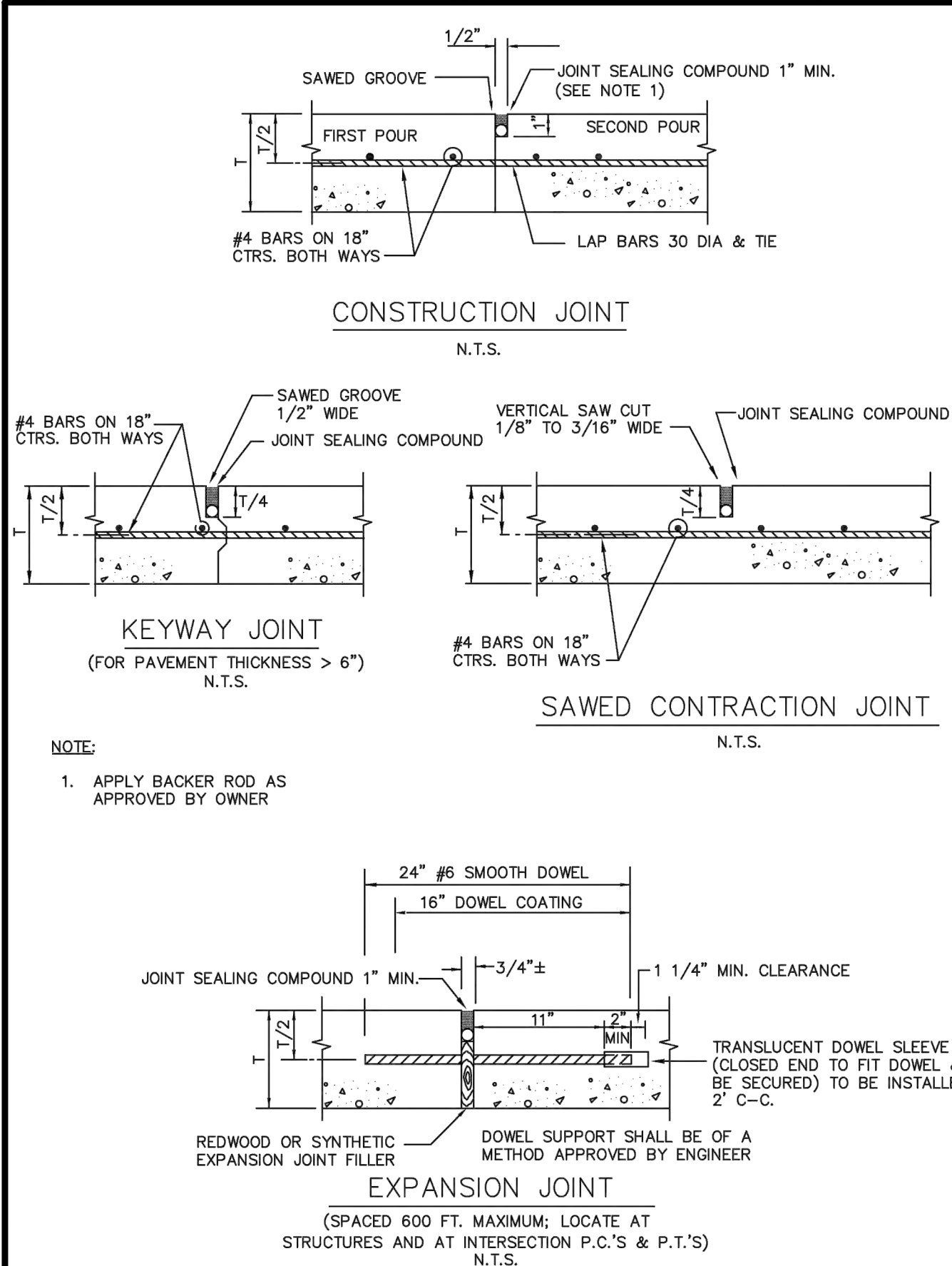
STAGE 3 TENSION PHASE

STAGE 3 CONSTRUCTION PHASING PLAN

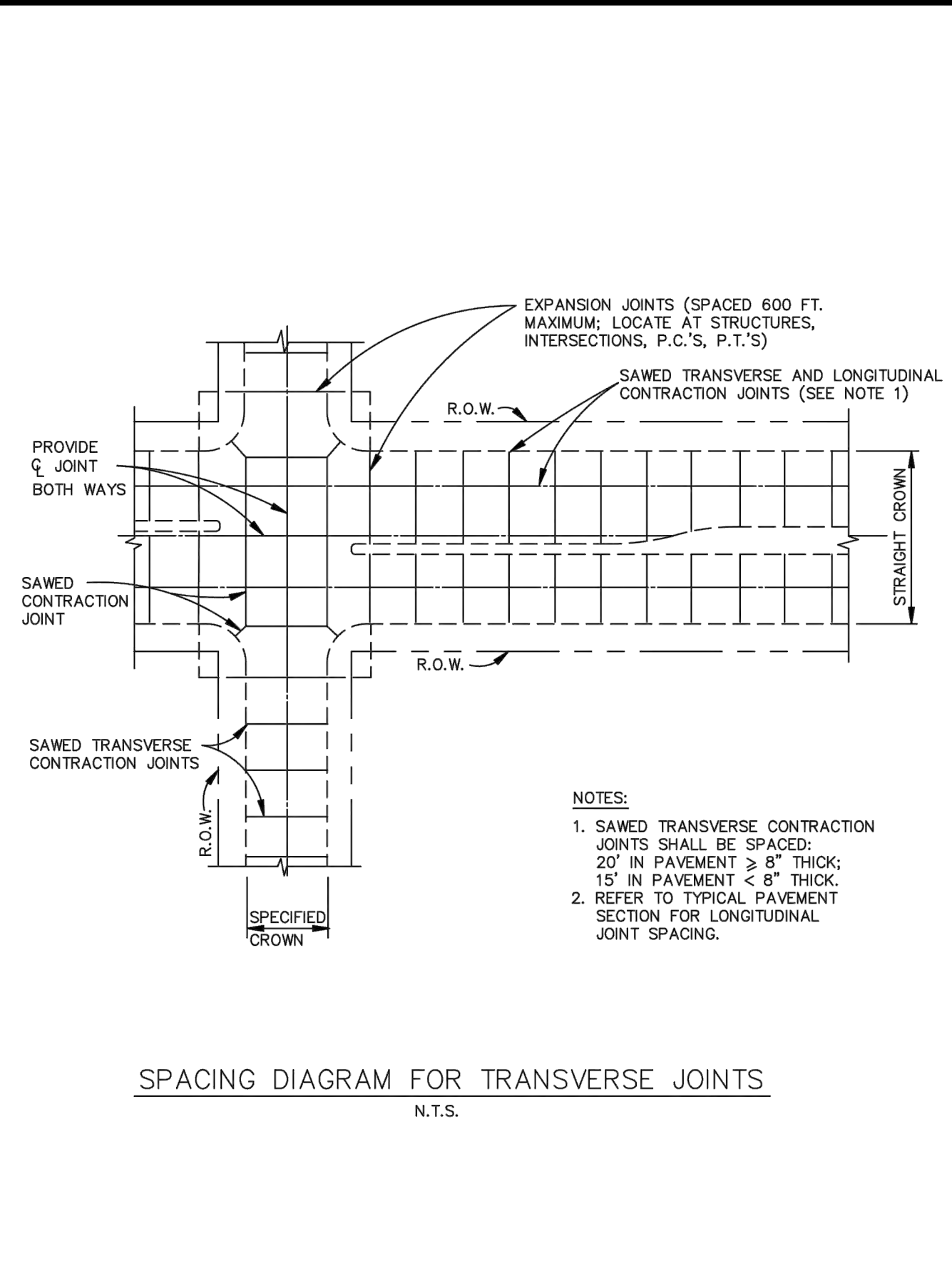
PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER SM
CHECKED AR DRAWN SM
SHEET 17

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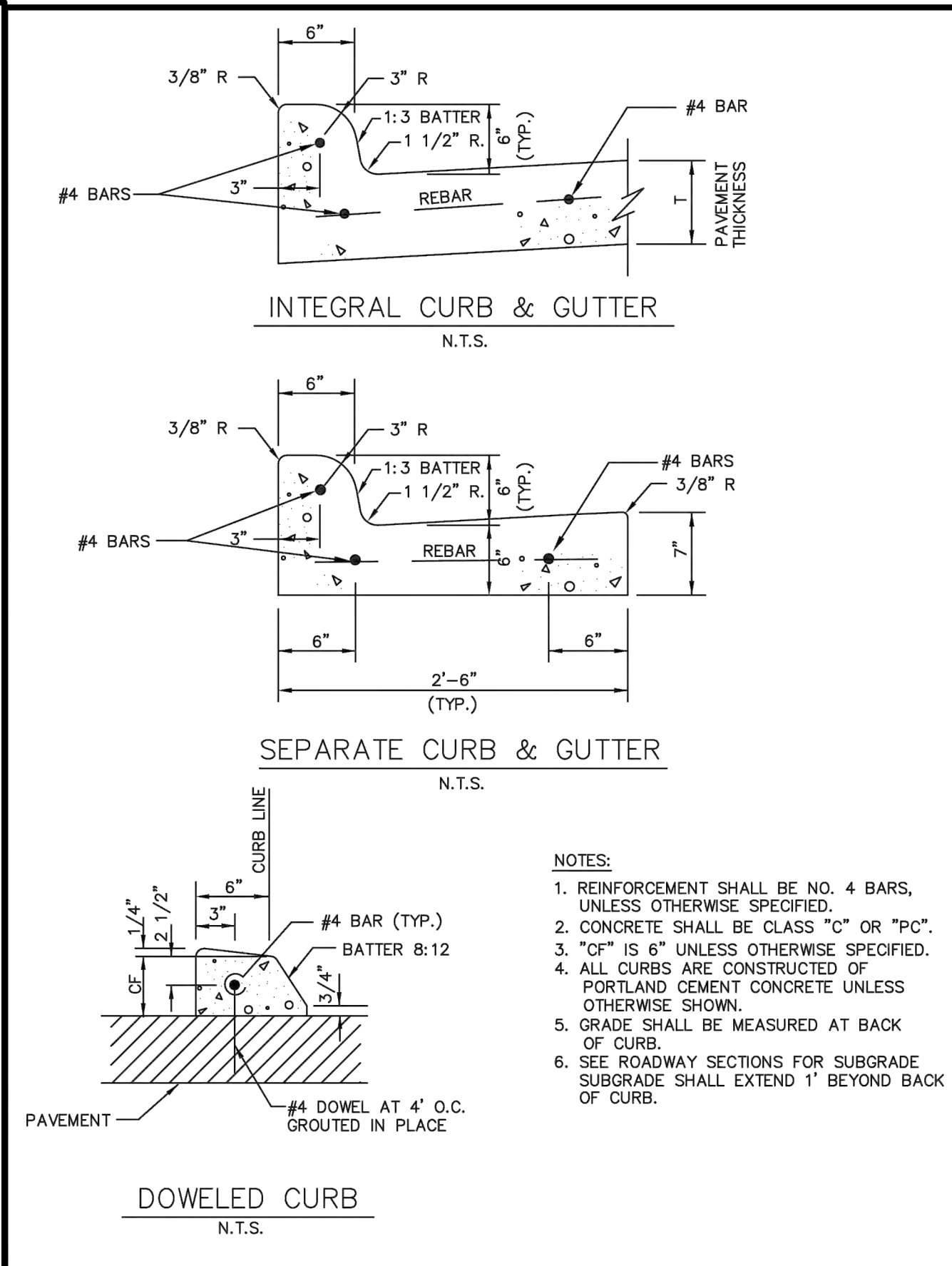
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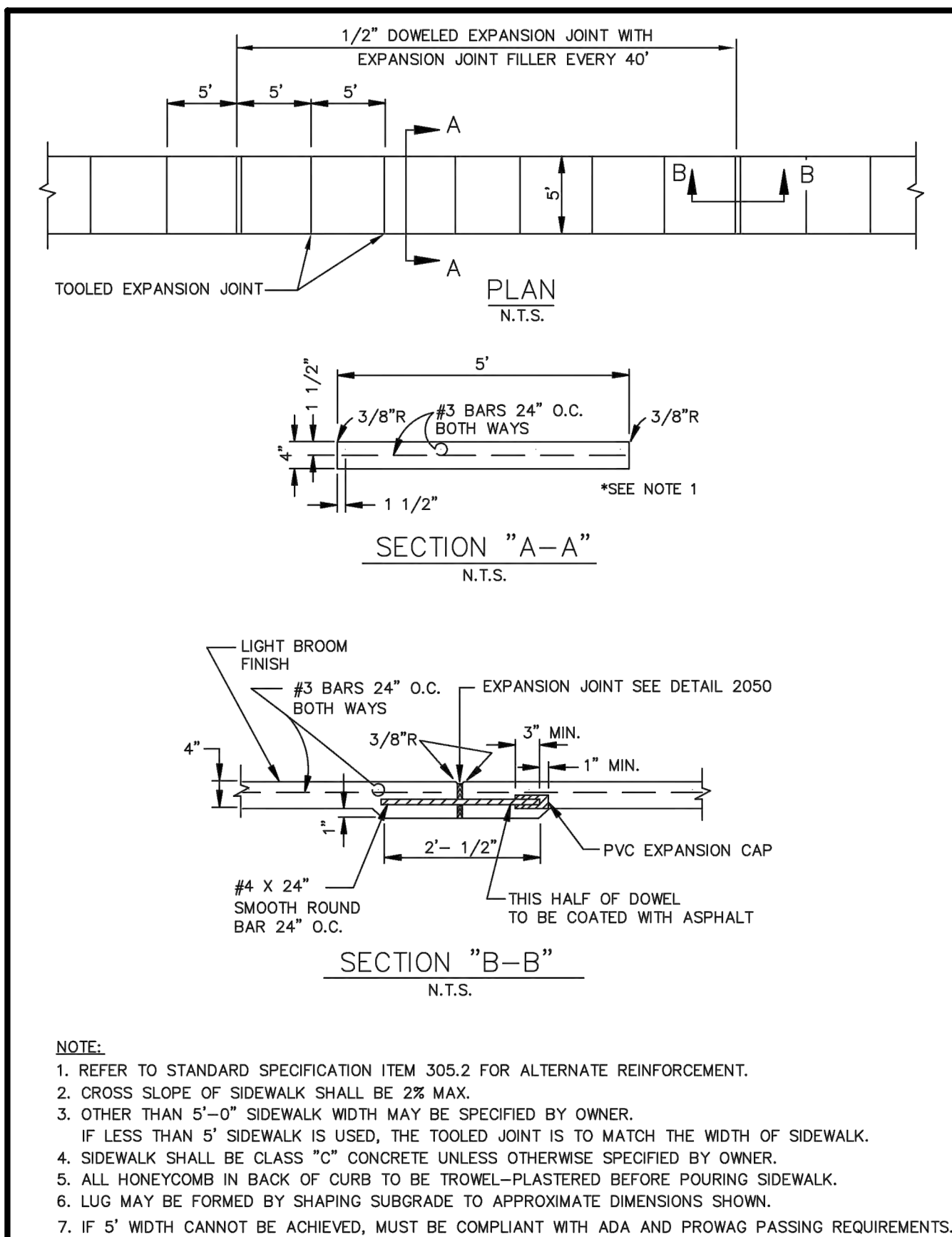
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		DATE AUG '23
		STANDARD DRAWING NO. 2050



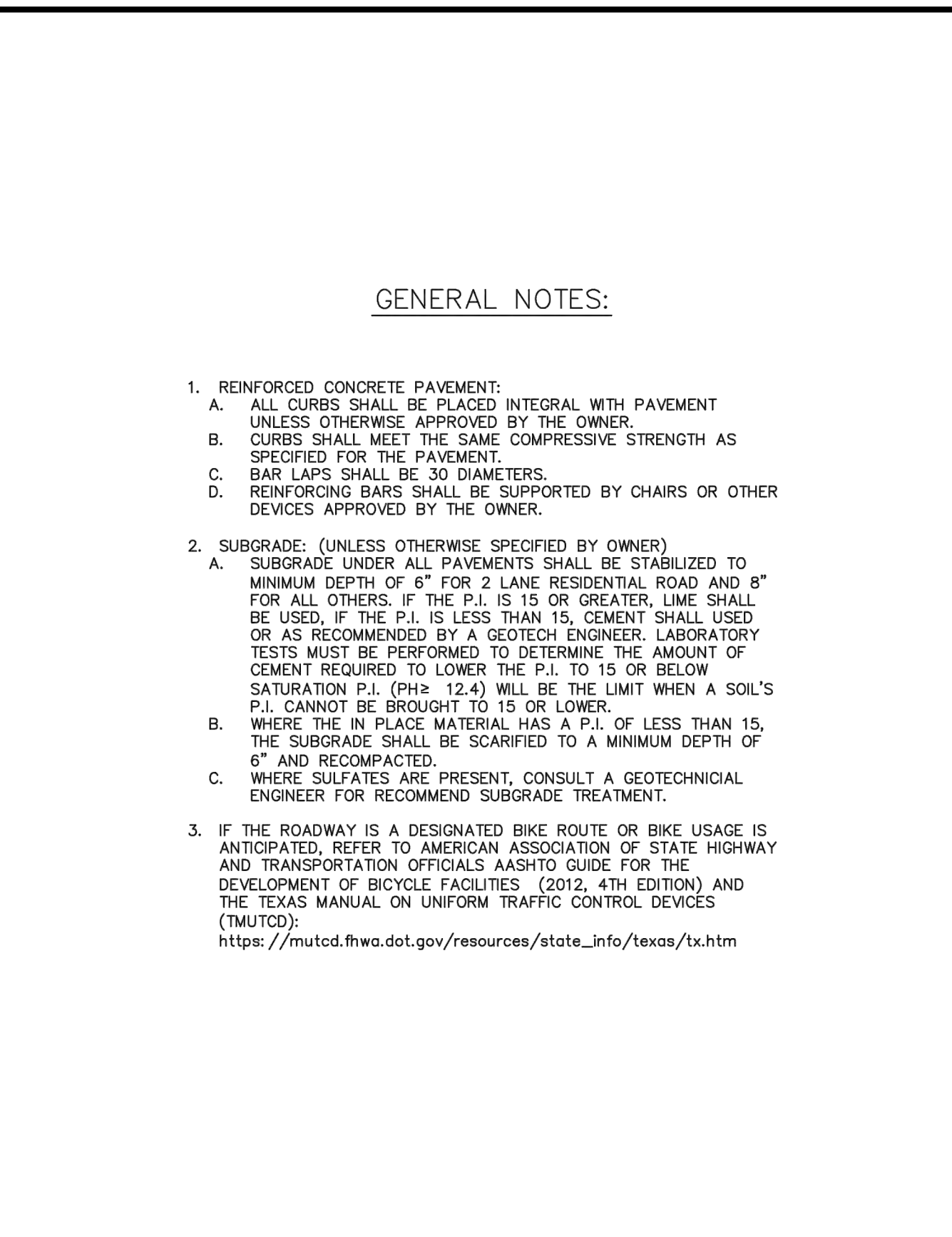
REINFORCED CONCRETE PAVEMENT TRANSVERSE JOINT SPACING	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 303.5.4.
		DATE AUG '23
		STANDARD DRAWING NO. 2060



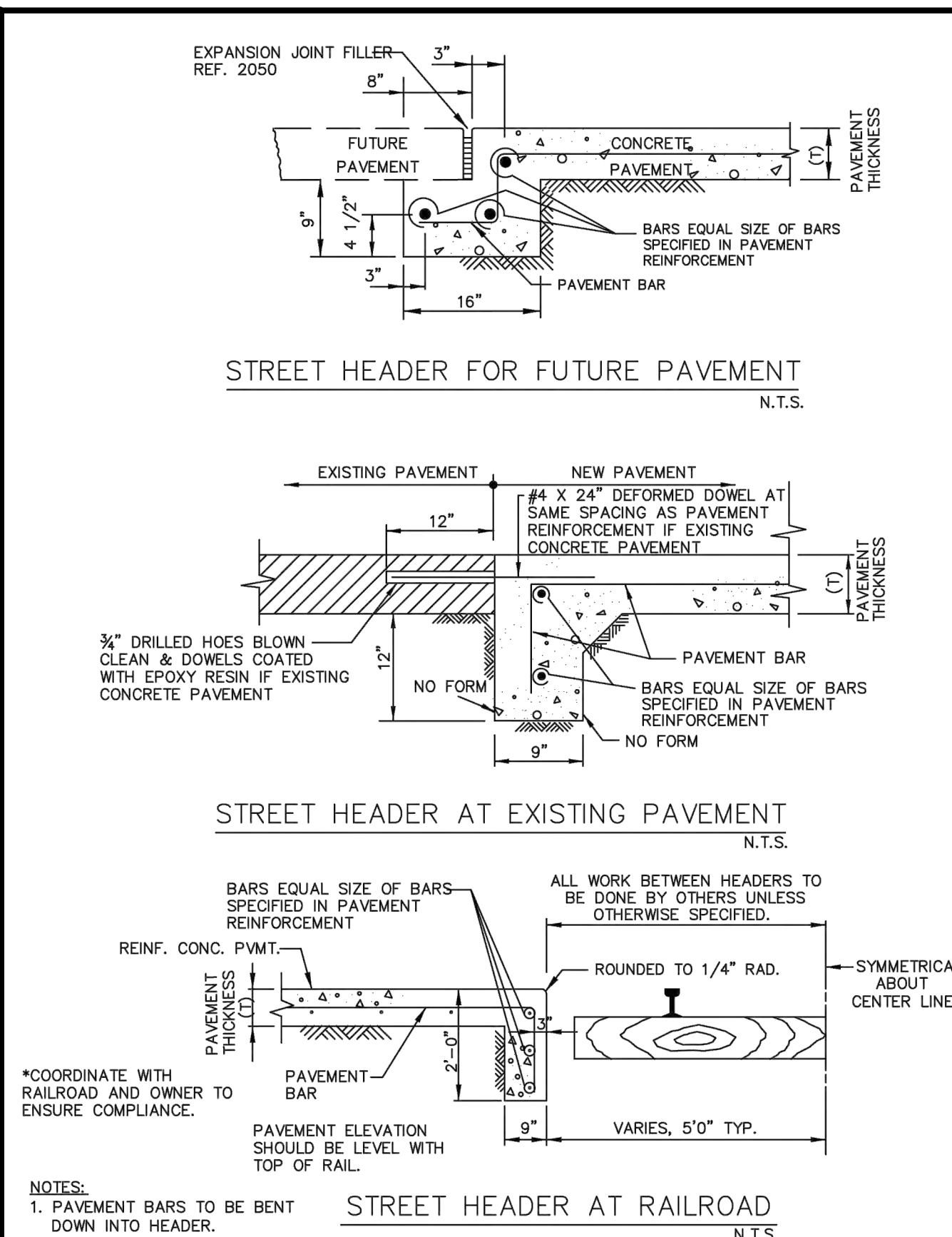
CONCRETE CURB & GUTTER INTEGRAL, SEPARATE, & DOWELED	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 305.1
		DATE AUG '23
		STANDARD DRAWING NO. 2120



REINFORCED CONCRETE SIDEWALKS JOINTS AND SPACING	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 305.2
		DATE AUG '23
		STANDARD DRAWING NO. 2170

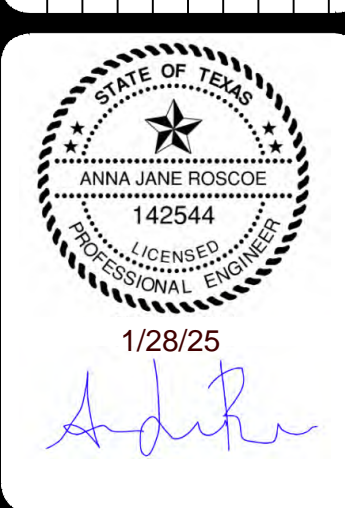


PAVEMENT SYSTEMS GENERAL NOTES	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 301, 302, 303.
		DATE AUG '23
		STANDARD DRAWING NO. 2110



REINFORCED CONCRETE PAVEMENT STREET HEADERS	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 303.5.4.
		DATE AUG '23
		STANDARD DRAWING NO. 2070

NO.	REVISION	DATE



PAPE-DAWSON ENGINEERS

6105 TENNYSON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1003800

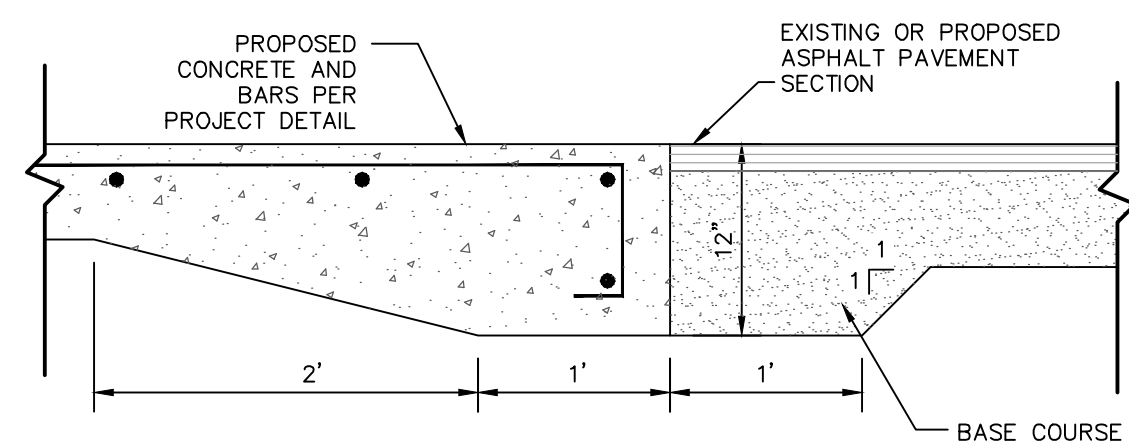
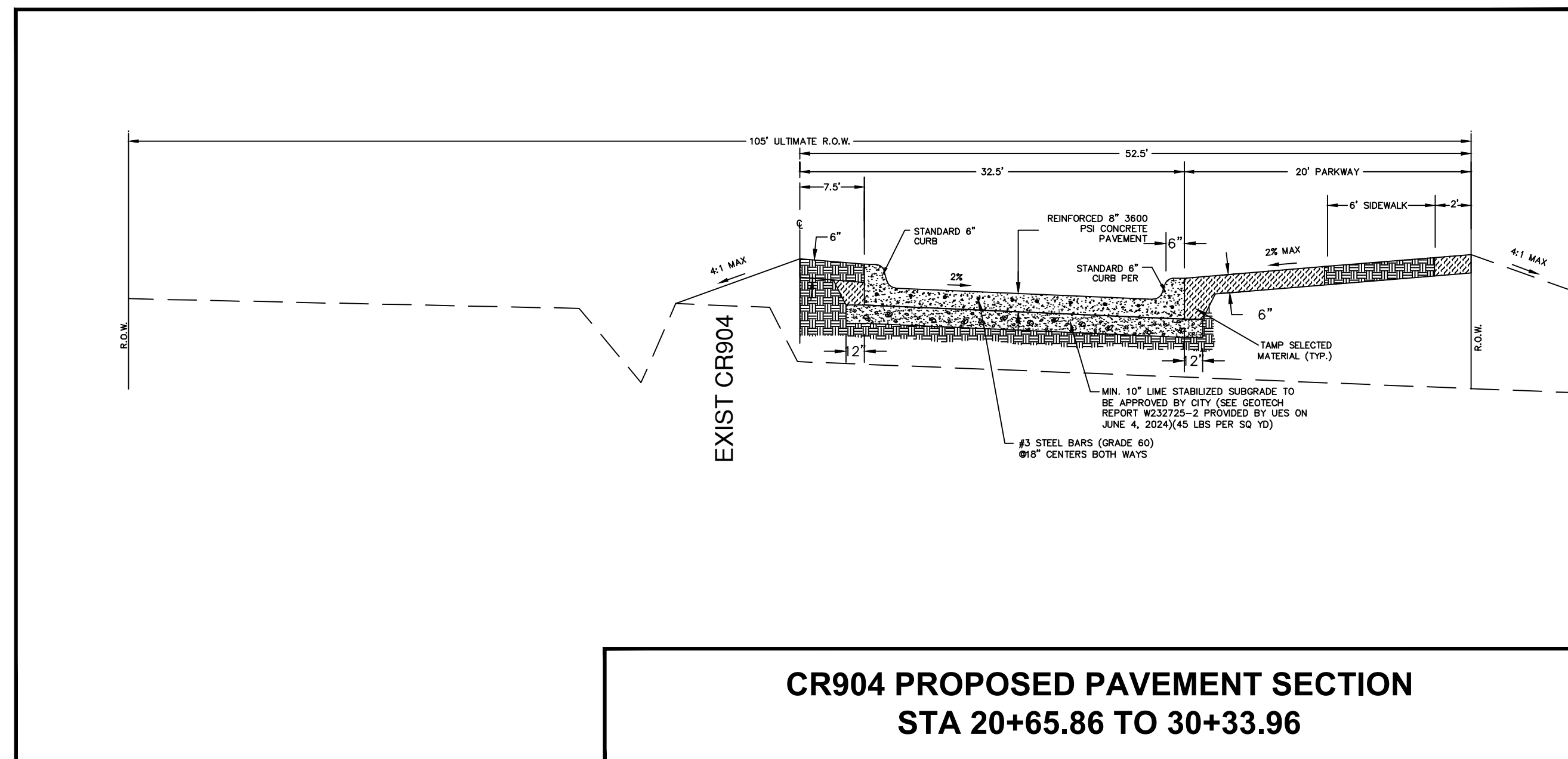
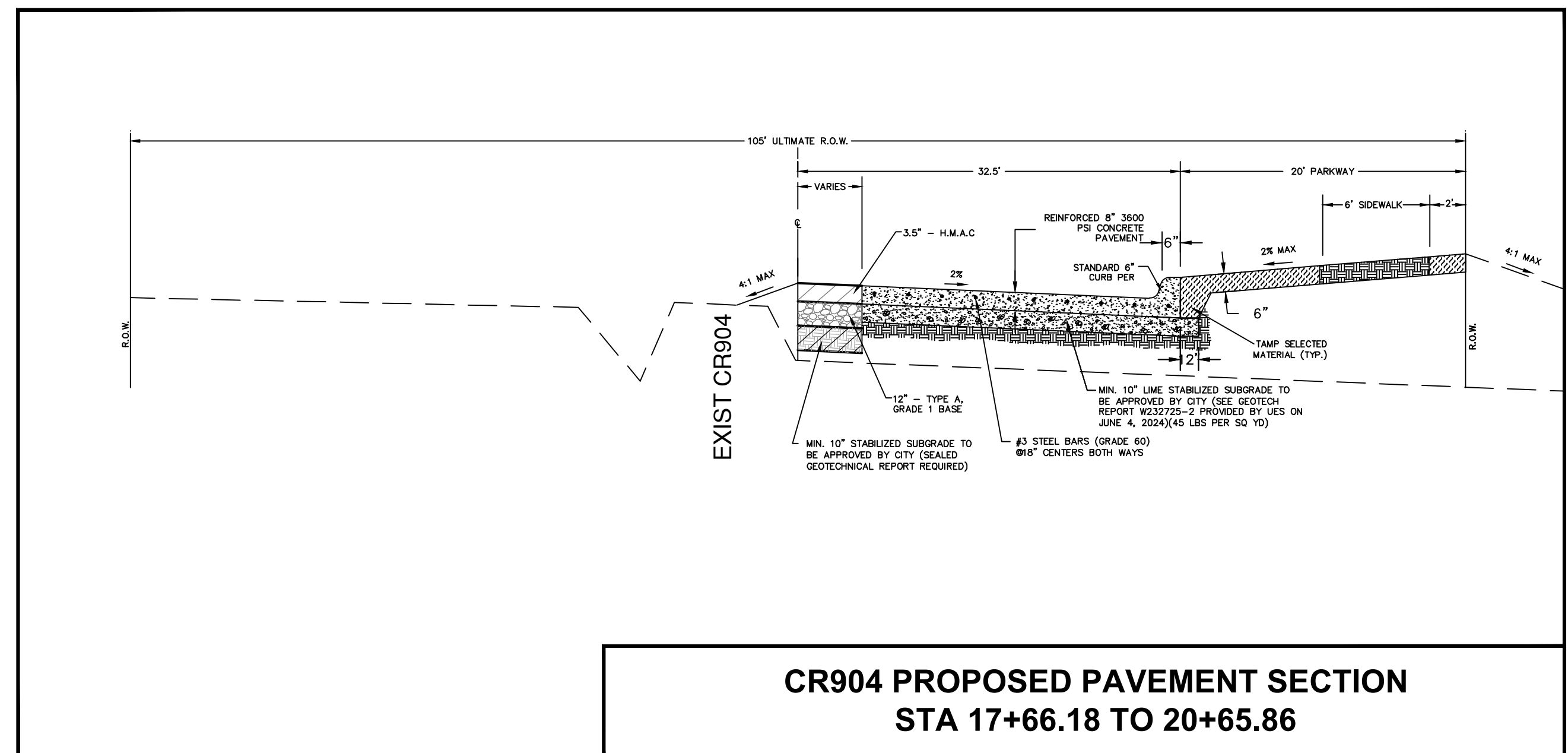
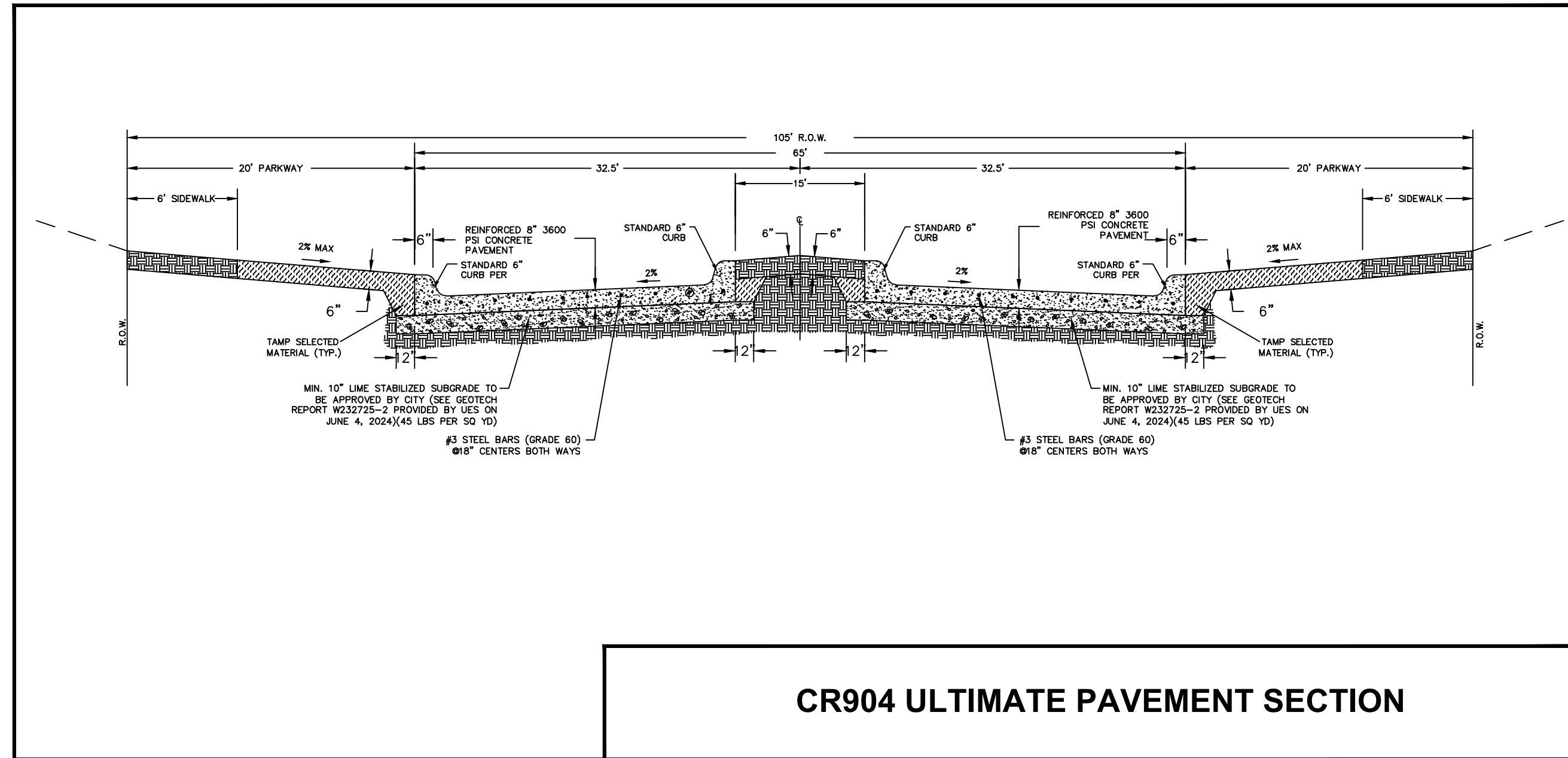
COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

PAVING DETAILS (1)

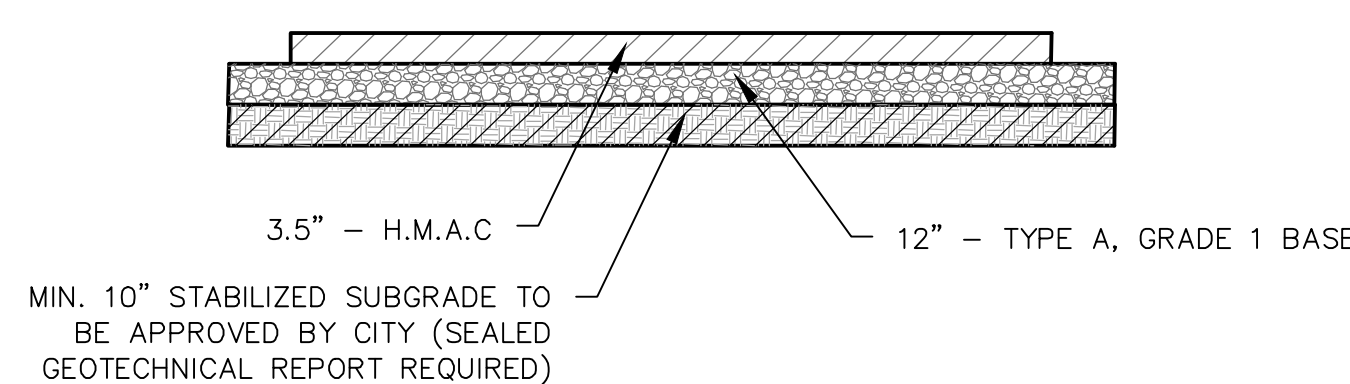
PLAT NO.	N/A
JOB NO.	61405-03
DATE	1/28/2025
DESIGNER	SM
CHECKED	AR
DRAWN	SM
SHEET	18

NOTE:

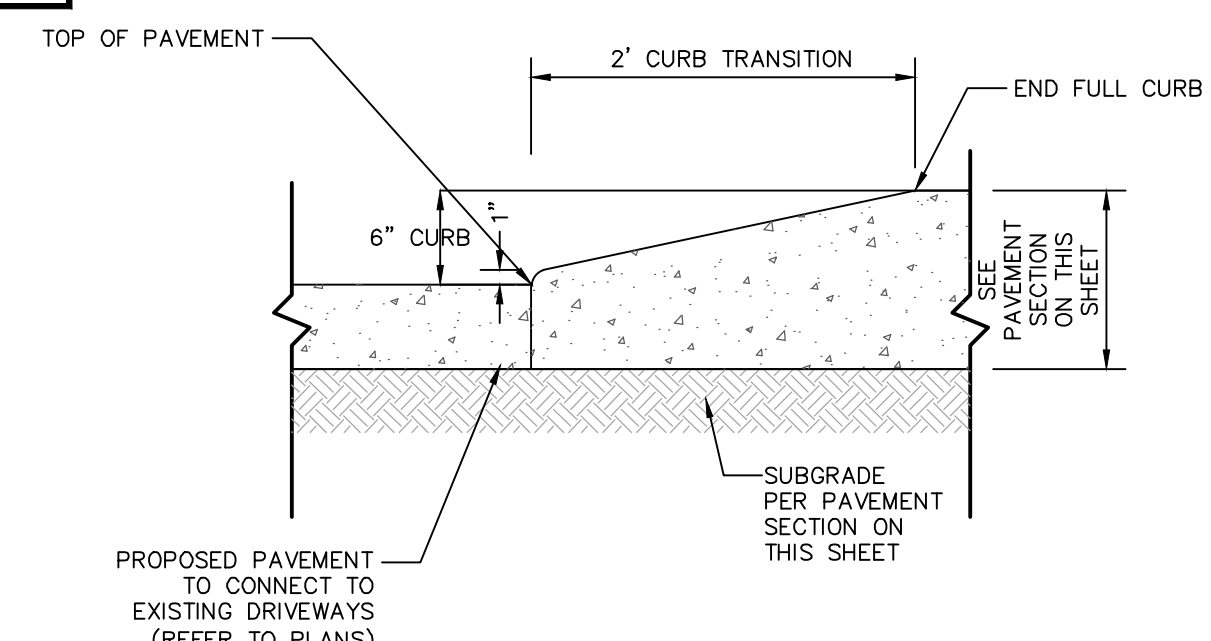
THE CLIENT CONTRACTED WITH UES TO PREPARE A FINAL GEOTECHNICAL EXPLORATION REPORT FOR WRIGHT FARMS/FRONTIER CR904. CONTRACTOR SHALL REFERENCE THIS GEOTECHNICAL REPORT NO. W232725-2, ADDENDUM W232725-B, AND ADDENDUM W232725-2-REV1 PREFORMED BY UES ON JUNE 4, 2024, OCTOBER 3, 2024, AND JANUARY 22, 2025 RESPECTIVELY.



CONCRETE/ASPHALT JUNCTURE DETAIL
NOT-TO-SCALE



TEMPORARY ASPHALT TRANSITION
STA 16+45.00 TO 20+65.86

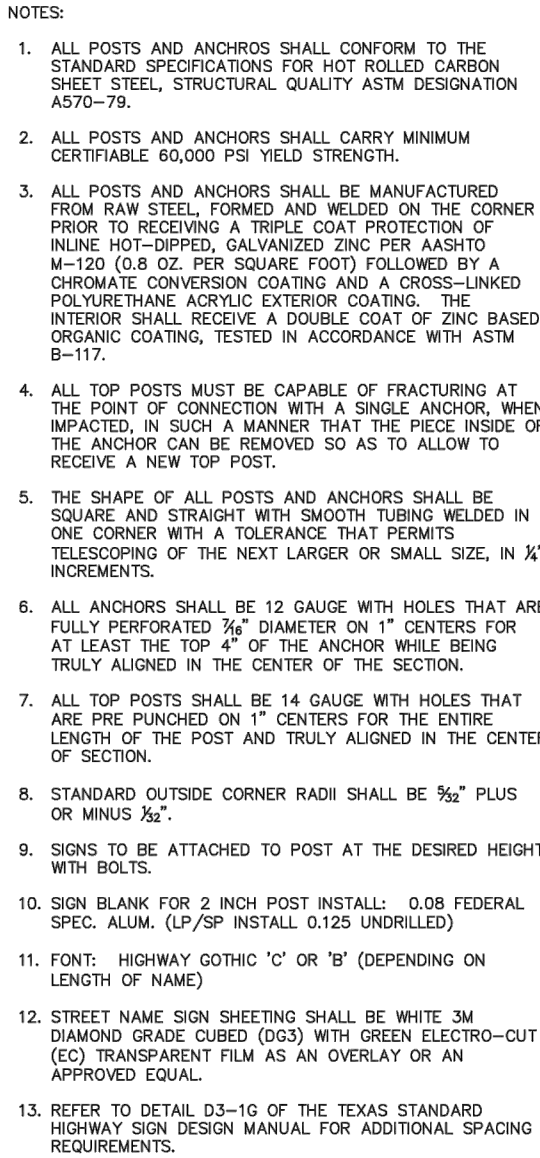


CURB TRANSITION DETAIL
NOT-TO-SCALE

PAPE-DAWSON
ENGINEERS
6105 TENNYSON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

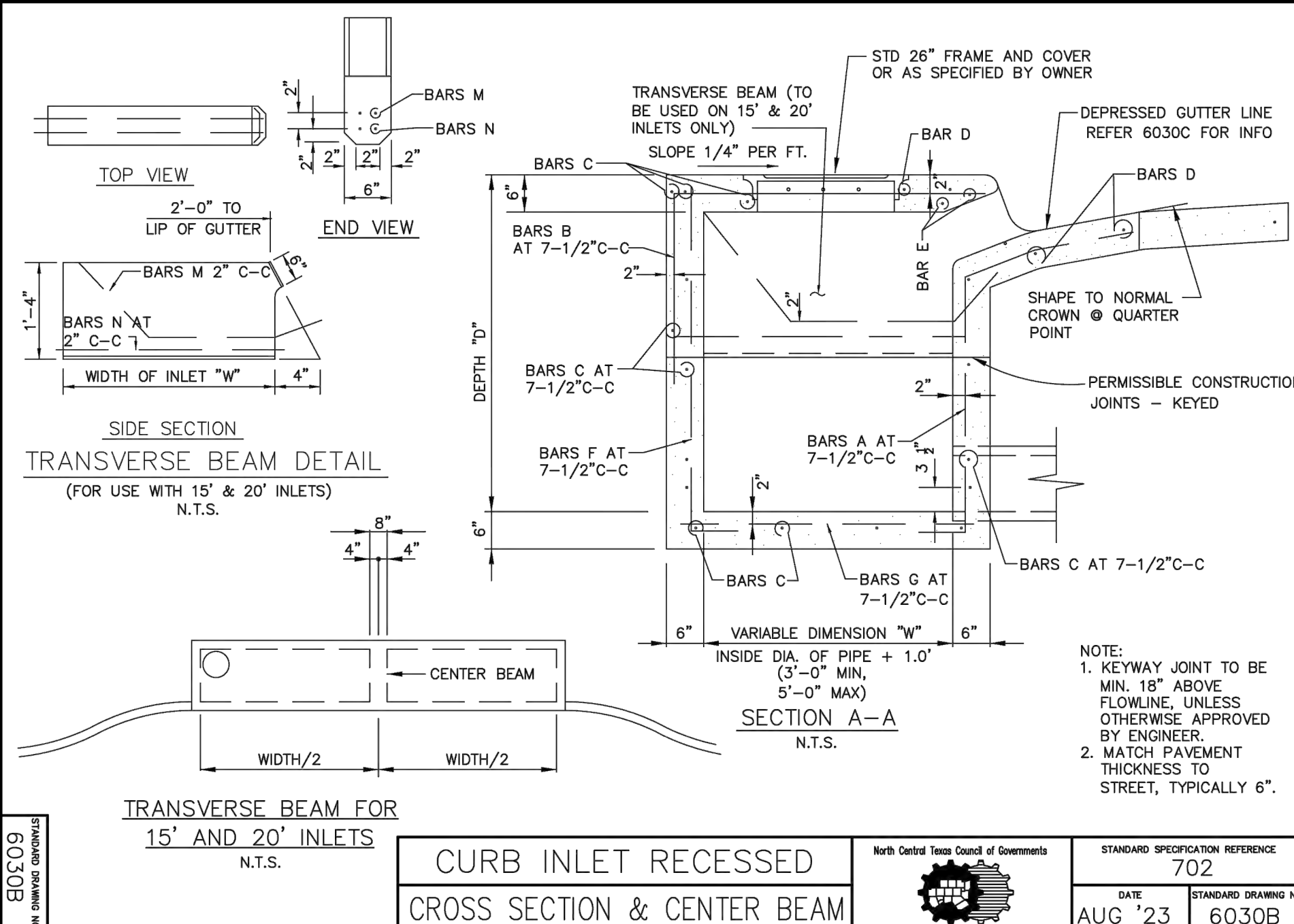
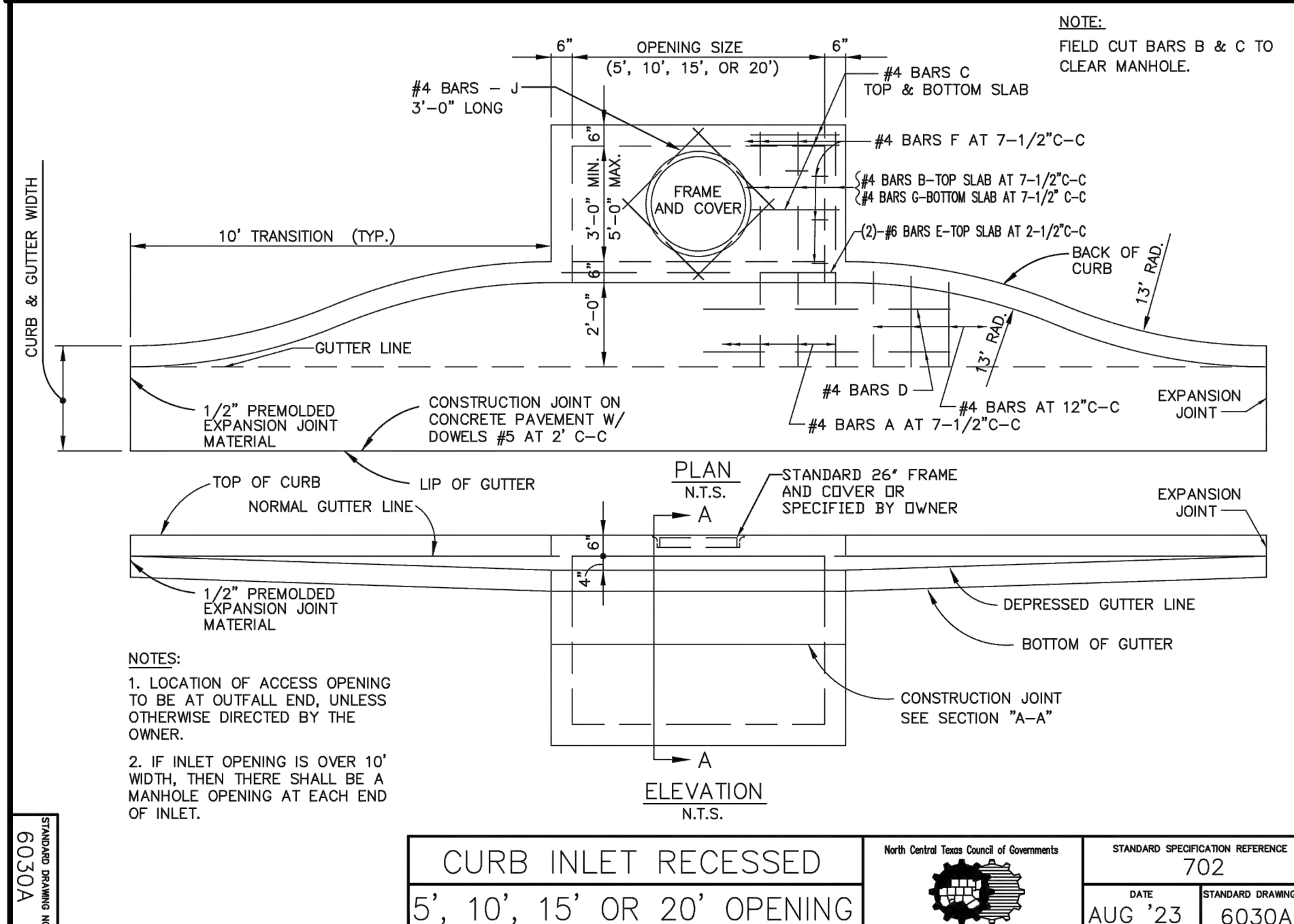
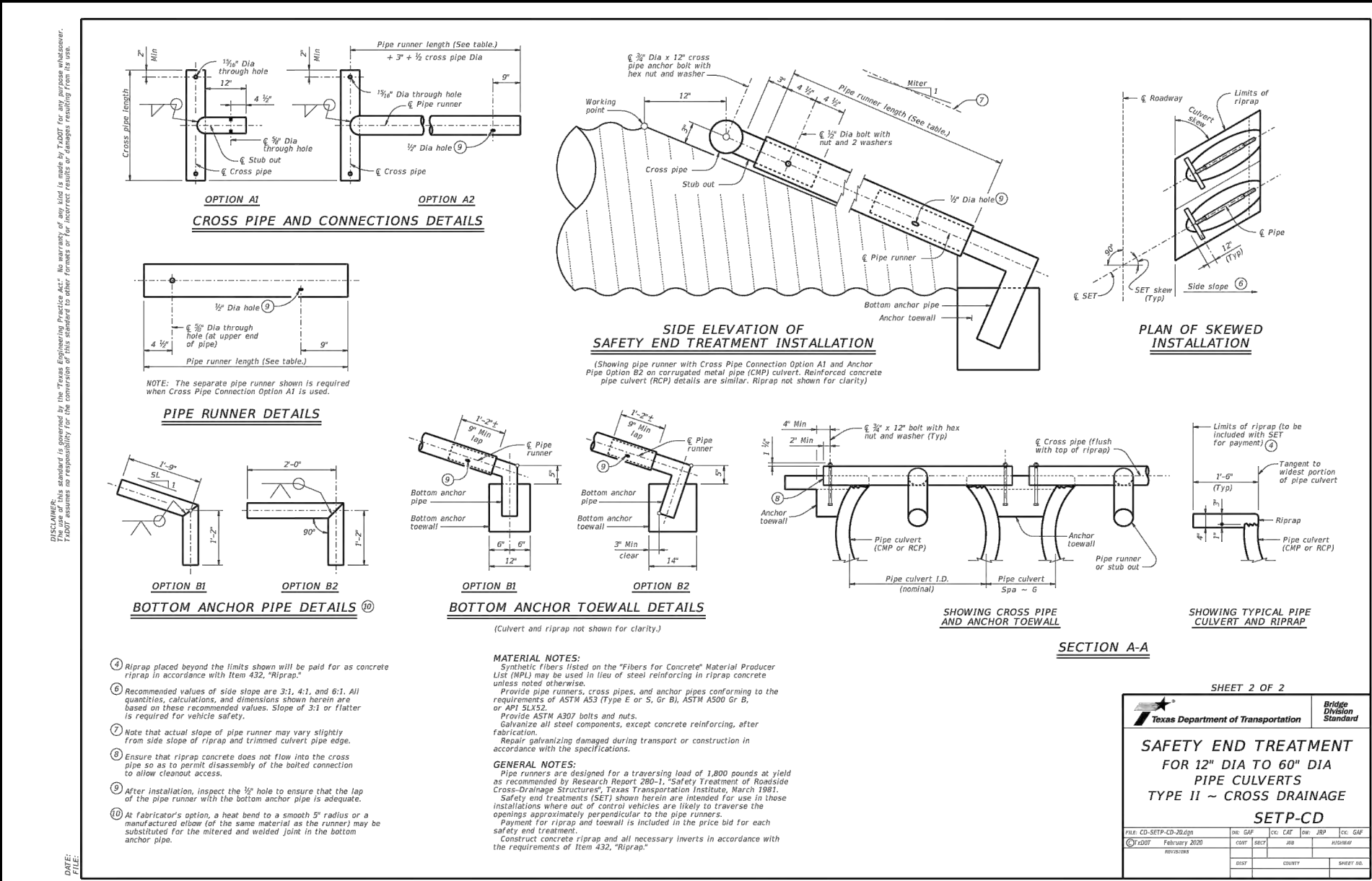
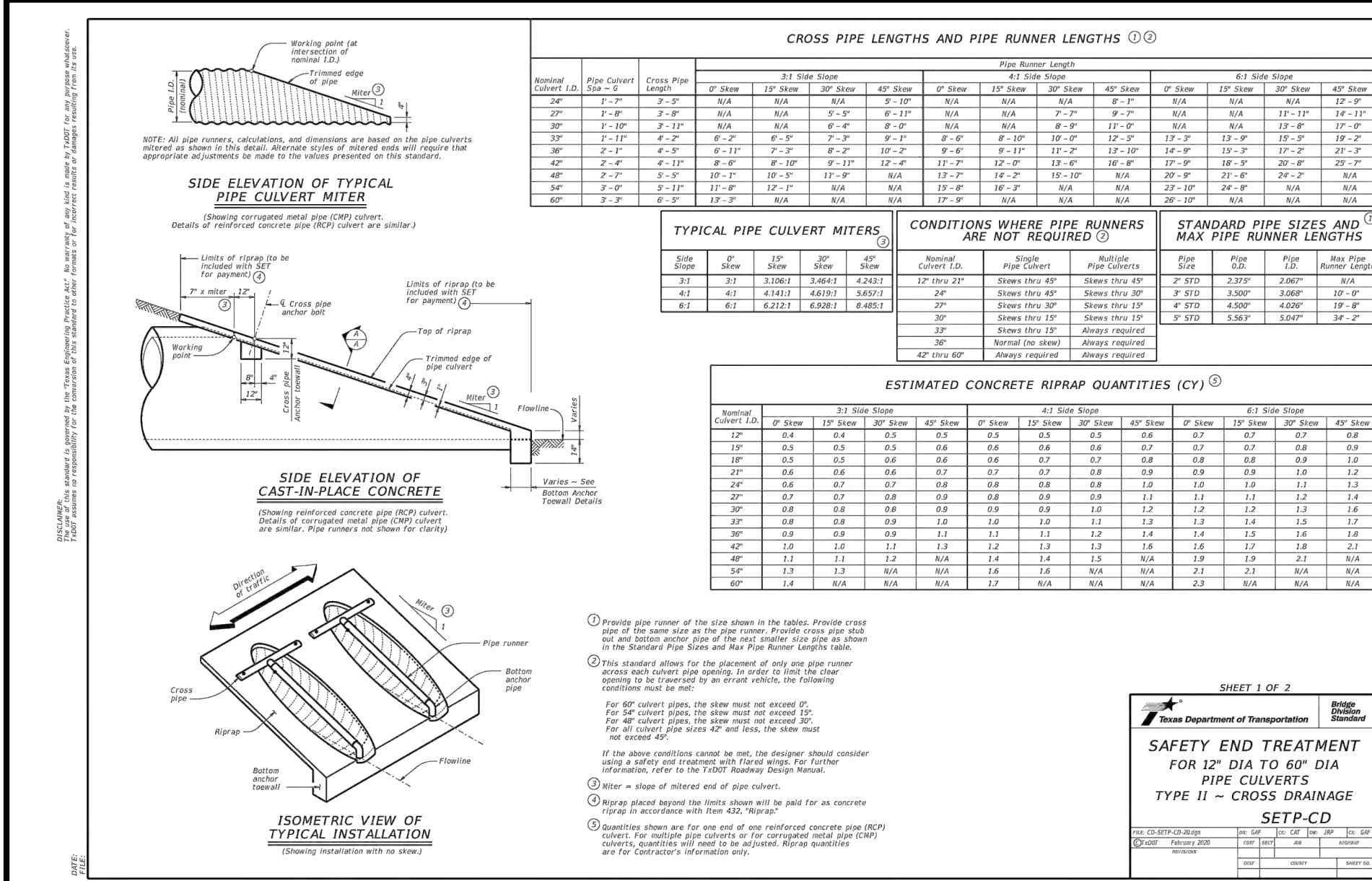
COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
PAVING DETAILS (2)

PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER SM
CHECKED AR DRAWN SM
SHEET 19



NOMINAL OUTSIDE DIMENSIONS
1 1/2" x 1 1/2"
1 3/4" x 1 3/4"
2" x 2"
2 1/4" x 2 1/4"
2 1/2" x 2 1/2"

SQUARE TUBING POST DETAIL



DATE
NO. REVISION
1/28/25
ANNA JANE ROSCOE
142544
1/28/25

PAPE-DAWSON ENGINEERS
6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.8494
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #1002880

COUNTY ROAD 904 IMPROVEMENTS
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM DRAIN DETAILS (1)

PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER SM
CHECKED AR DRAWN SM
SHEET 21



STANDARD DRAWING NO.
6030D

STANDARD DRAWING NO.
6030D

6030E



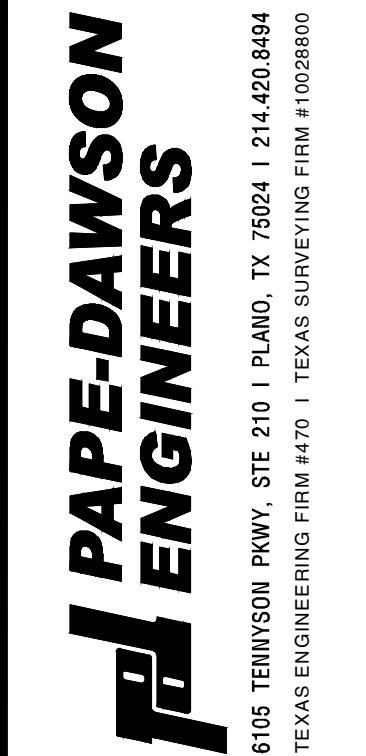
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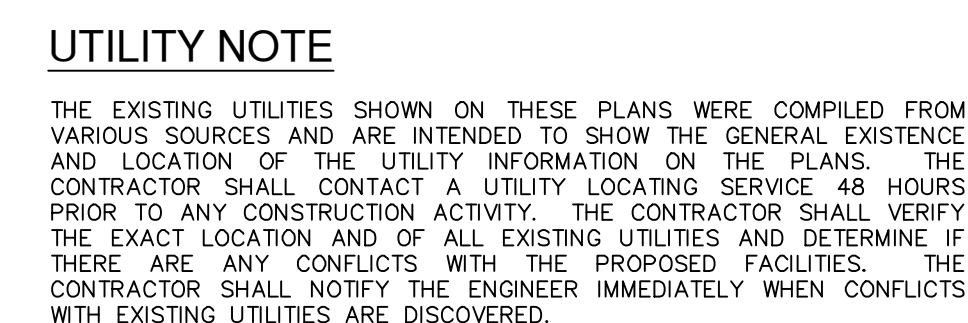
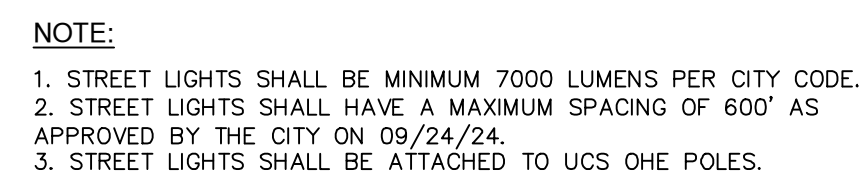
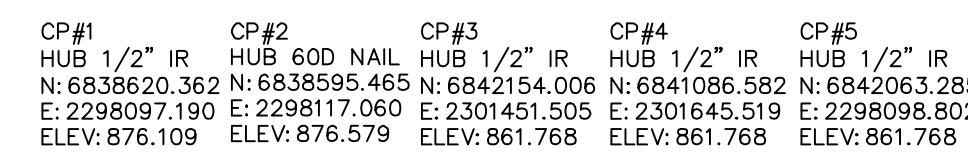
North Central Texas Council of Governments

North Central Texas Council of Governments



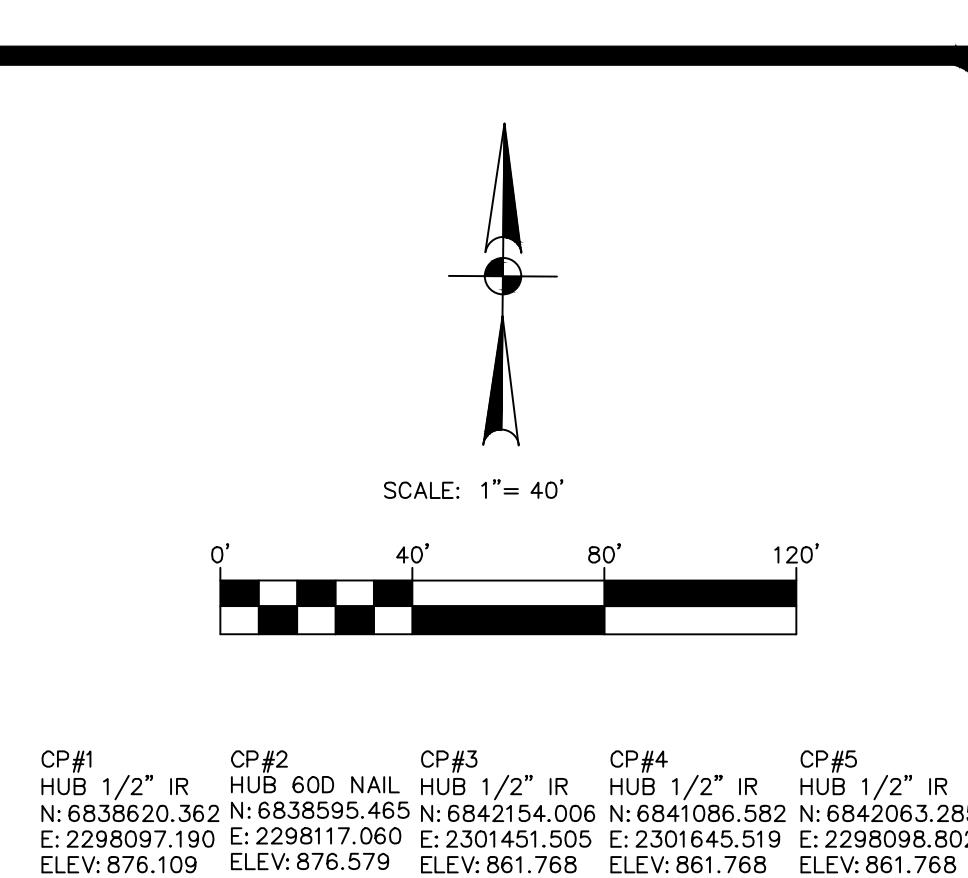
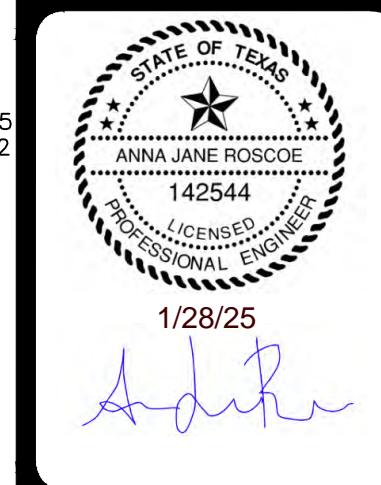
STORM DRAIN DETAILS (2)

PLAT NO. N/A
JOB NO. 61405-03
DATE 1/28/2025
DESIGNER SM
CHECKED AR DRAWN SM
SHEET 22



PLAT NO. _____ N/A
JOB NO. _____ 61405-03
DATE _____ 1/28/2025
DESIGNER _____ SM
CHECKED _____ AR DRAWN _____ SM

SHEET _____ 23

[illegible]

**PAPE-DAWSON
ENGINEERS**

6105 TENNISON PKWY, STE 210 | PLANO, TX 75024 | 214.420.6464
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028860

COUNTY ROAD 904 IMPROVEMENTS

CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

PAVEMENT MARKING PLAN

PLAT NO. _____ N/A
JOB NO. _____ 61405-03
DATE _____ 1/28/2025
DESIGNER _____ SM
CHECKED _____ AR DRAWN _____ SM
SHEET _____ 24

