

AGENDA PLACEMENT FORM

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

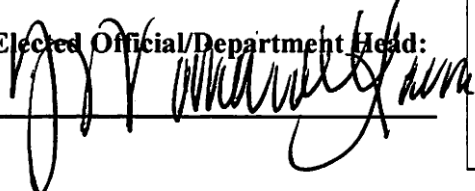
Date: December 30, 2025

Meeting Date: January 12, 2026

Submitted By: Julie Edmiston

Department: Development Services

Signature of Elected Official/Department Head:



Court Decision: <small>This section to be completed by County Judge's Office</small>


Description:

Consideration to approve an agreement titled "Participation For County Road Expansion" between Johnson County and Lennar Homes of Texas Land & Construction, LTD. (for Frontier Phases 2A, 3A, and 3B Development) to Contract for the Construction of Certain Road Improvements such as Widening Existing County Road 1017 and Constructing a New Realigned Segment of County Road 1017 totaling approximately .75 miles, Installing a Storm Drain System, and Replacing Signage on County Road 1017 Adjacent to Frontier Phases 2A, 3A, and 3B Development, 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 1017 and constructing a new realigned segment of County Road 1017 totaling approximately .75 miles, installing a storm drain system, and replacing signage on County Road 1017 adjacent to Frontier Phases 2A, 3A, and 3B Development 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 widening existing County Road 1017 and constructing a new realigned segment of County Road 1017 totaling approximately .75 miles, installing a storm drain system, and replacing signage on County Road 1017 adjacent to Frontier Phases 2A, 3A, and 3B Development 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 widening existing County Road 1017 and constructing a new realigned segment of County Road 1017 totaling approximately .75 miles, installing a storm drain system, and replacing signage on County Road 1017 adjacent to Frontier Phases 2A, 3A, and 3B Development 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 widening existing County Road 1017 and constructing a new realigned segment of County Road 1017 totaling approximately .75 miles, installing a storm drain system, and replacing signage on County Road 1017 adjacent to Frontier Phases 2A, 3A, and 3B Development in Johnson County, Texas.

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

[Signature]
Signature of Participant or Participant's Authorized Agent

Date: 12/31/2025

Approved and Accepted by:
Commissioners Court

Date: 1-12-26

[Signature] [Signature]
Christopher Boedeker, Johnson County Judge
Voted: yes, no, abstained

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

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

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

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

ATTEST: [Signature]
April Long, County Clerk



Exhibit A

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

RE: Frontier CR 1017
Description of Work

DATE: December 23, 2025

Project Description

The proposed improvements of County Road 1017 are located south of the intersection of CR 904 and CR 1017. We are proposing to construct 2 lanes out of the ultimate 4 lane divided minor arterial roadway adjacent to the Frontier Phases 2A, 3A and 3B development. The scope of work includes approximately 9,100 square yards of concrete pavement, 2,800 linear feet of storm drain, JCSUD water line relocation, and a sanitary sewer bore. The remaining portion of CR 1017 adjacent to Frontier is proposed to be constructed with a future phase.

Sincerely,



AJ Roscoe, P.E.
Project Manager

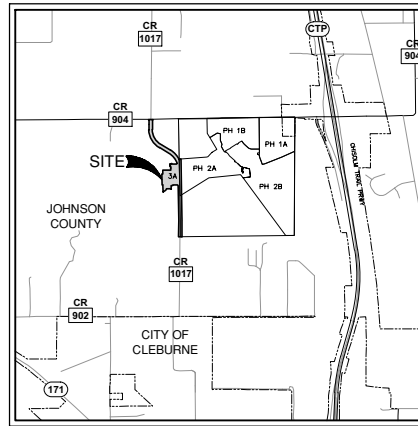
FRONTIER

PHASE 3A

CITY OF CLEBURNE ETJ JOHNSON COUNTY, TEXAS CIVIL CONSTRUCTION PLANS



SUMMARY OF PUBLIC IMPROVEMENTS	
STREET	
15,937 SY	CONCRETE PAVEMENT
2,309 SY	ASPHALT PAVEMENT
UTILITIES	
35 LF	6" SEWER
1,402 LF	8" SEWER
258 LF	10" SEWER
1,612 LF	8" WATER
2,106 LF	12" WATER
0.881 LF	STORM



LOCATION MAP
 NOT-TO-SCALE

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

DECEMBER 2025

PAPE-DAWSON
 6105 TENNYSON PKWY, STE 2101 PLANO, TX 75024 | 214.420.8494
 TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

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66	STORM PLAN & PROFILE - LINE SD-D1	
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68	STORM PLAN & PROFILE - LINE SD-D1	
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THIS DOCUMENT IS
 RELEASED FOR
 "REVIEW PURPOSES"
 UNDER THE
 AUTHORIZATION OF
 ANN JANE ROSCOE,
 P.E. #142544
 DECEMBER 22, 2025.
 IT IS NOT FOR
 CONSTRUCTION OR
 PERMIT PURPOSES.

THIS DOCUMENT IS
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 "REVIEW PURPOSES"
 UNDER THE
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 MATTHEW T.
 GILBERTSON,
 P.E. #138653
 DECEMBER 22, 2025.
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 PERMIT PURPOSES.

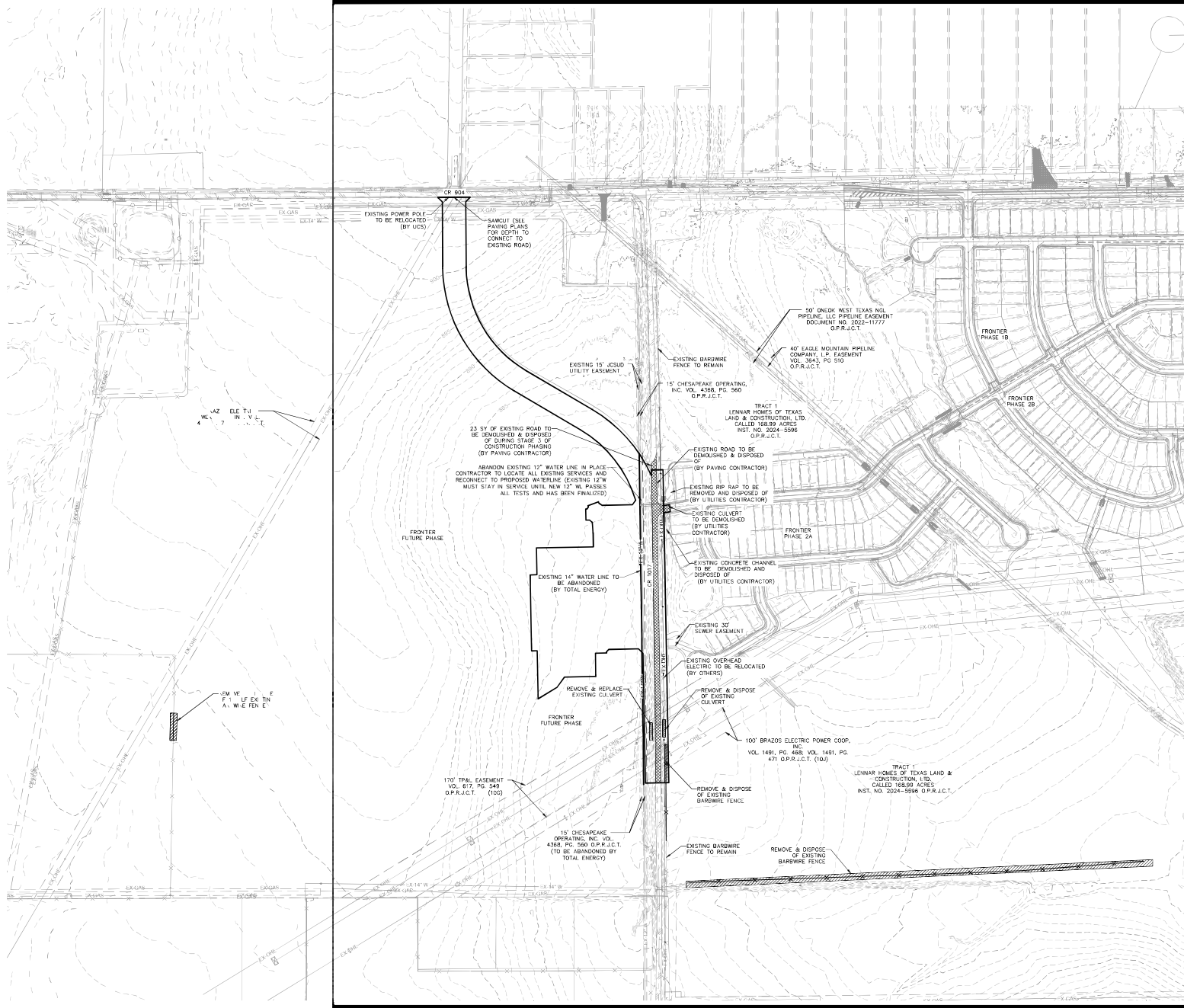
CONTACT: AJ ROSCOE, P.E.
 A.ROSCOE@PAPE-DAWSON.COM

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Know what's below.
 Call before you dig.

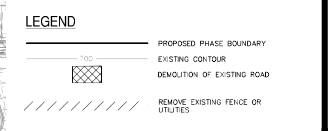
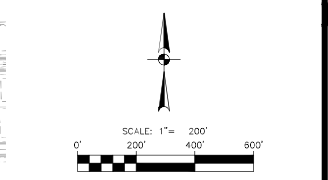
FRONTIER PHASE 3A
 PD JOB NO. 70172-07



KEY MAP
NOT TO SCALE

BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
HUB 3' IR N 538902.352 E 230807.190 ELEV 876.190	HUB 60' HALL N 528522.460 E 228711.600 ELEV 876.970	HUB 2' R N 684219.008 E 230451.595 ELEV 861.970	HUB 3' R N 684208.582 E 230443.315 ELEV 861.960	HUB 3' R N 684208.285 E 230443.622 ELEV 861.960



- NOTES**
1. CONTRACTOR SHALL COORDINATE WITH THE DEVELOPER, ADJACENT PROPERTY OWNERS AND THE UTILITY COMPANIES BEFORE BEGINNING OR CONSTRUCTING ANYTHING WITHIN THE EXISTING EASEMENTS.
 2. ENGINEER/DEVELOPER SHALL COORDINATE WITH UTILITY COMPANY TO RELOCATE EXISTING OVERHEAD ELECTRIC LINES AND POLES. THE LIMITS SHOWN IN THE DRAWING ARE APPROXIMATE AND SHALL TERMINATE ACCORDING TO THE UTILITY COMPANIES STANDARDS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND DISPOSING OF EXISTING STRUCTURES, UTILITIES, PAVEMENT, TREES, ETC. WITHIN CONSTRUCTION LIMITS AS SHOWN ON PLANS. IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES AT CONTRACTOR'S EXPENSE. ANKAS BEING MATERIAL HAS BEEN REMOVED SHALL BE UNDERLIT TO SUITABLE COMPACTED FILL MATERIAL IN ACCORDANCE WITH GEOTECHNICAL REPORT.
 4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
 5. ALL EROSION CONTROL SHALL BE IN PLACE AND INSPECTED PRIOR TO BEGINNING CLEARING AND GRUBBING OF THE SITE.

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.

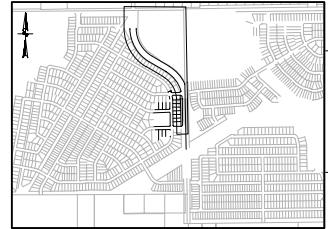
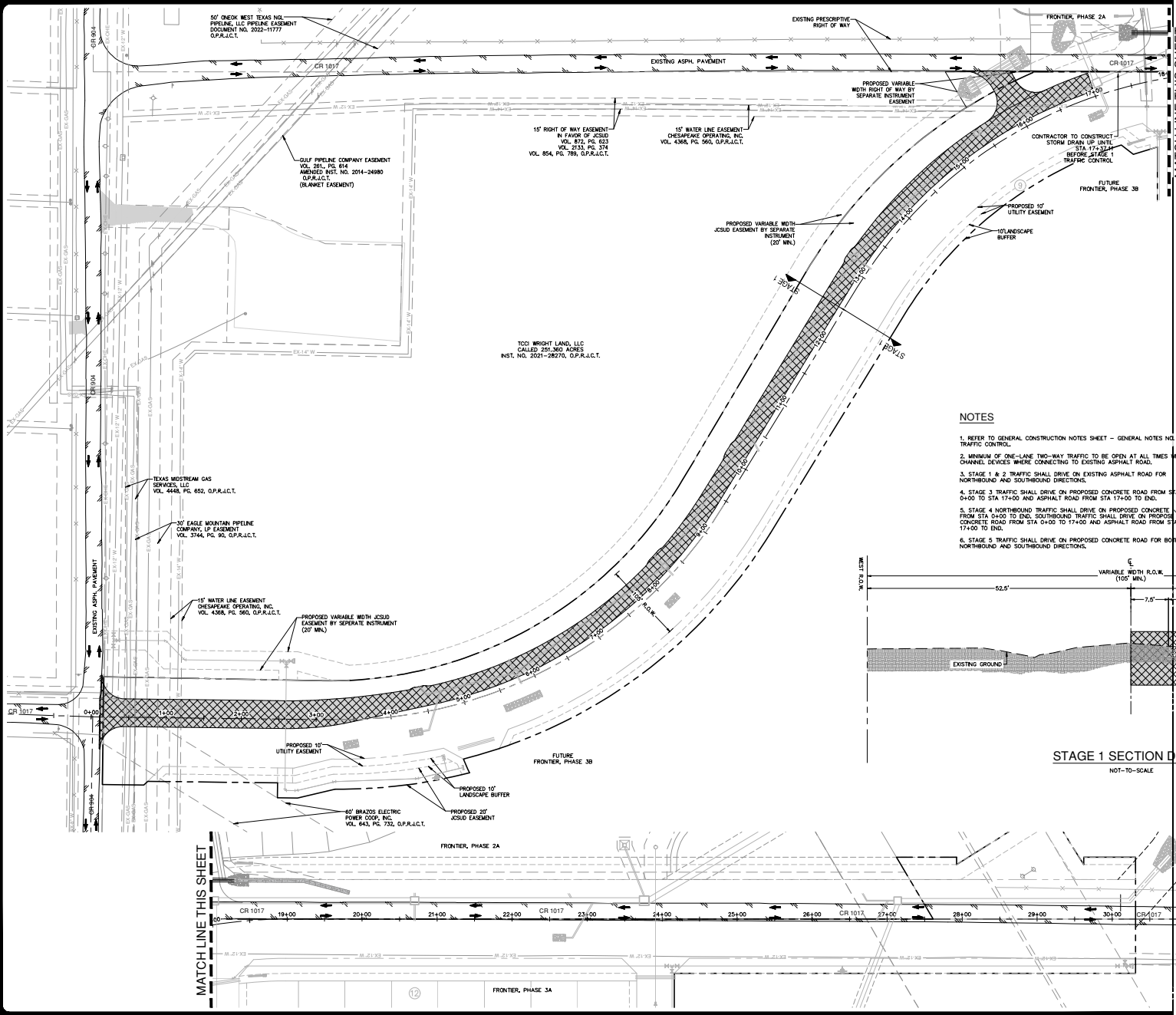
NO.	REVISION	DATE

PAPE - DAWSON
PAPE ENGINEERING ARCHITECTS
1100 WEST WILSON BOULEVARD, SUITE 300
DALLAS, TEXAS 75201
TEL: 972.382.1100
WWW.PAPE-DAWSON.COM

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
DEMOLITION PLAN

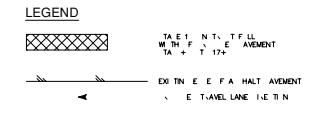
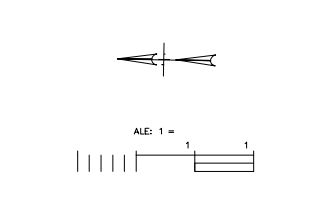
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JOB NO.	70172-07
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DESIGNER	KA
CHECKED BY	DRABIN, EA
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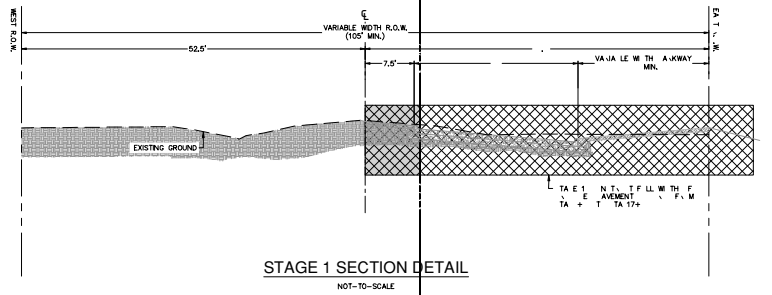


BENCHMARKS

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- NOTES**
- REFER TO GENERAL CONSTRUCTION NOTES SHEET - GENERAL NOTES NO. 1 TRAFFIC CONTROL.
 - MINIMUM OF ONE-LANE TWO-WAY TRAFFIC TO BE OPEN AT ALL TIMES WITH CHANNEL DEVICES WHERE CONNECTING TO EXISTING ASPHALT ROAD.
 - STAGE 1 & 2 TRAFFIC SHALL DRIVE ON EXISTING ASPHALT ROAD FOR NORTHBOUND AND SOUTHBOUND DIRECTIONS.
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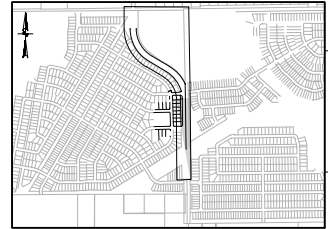
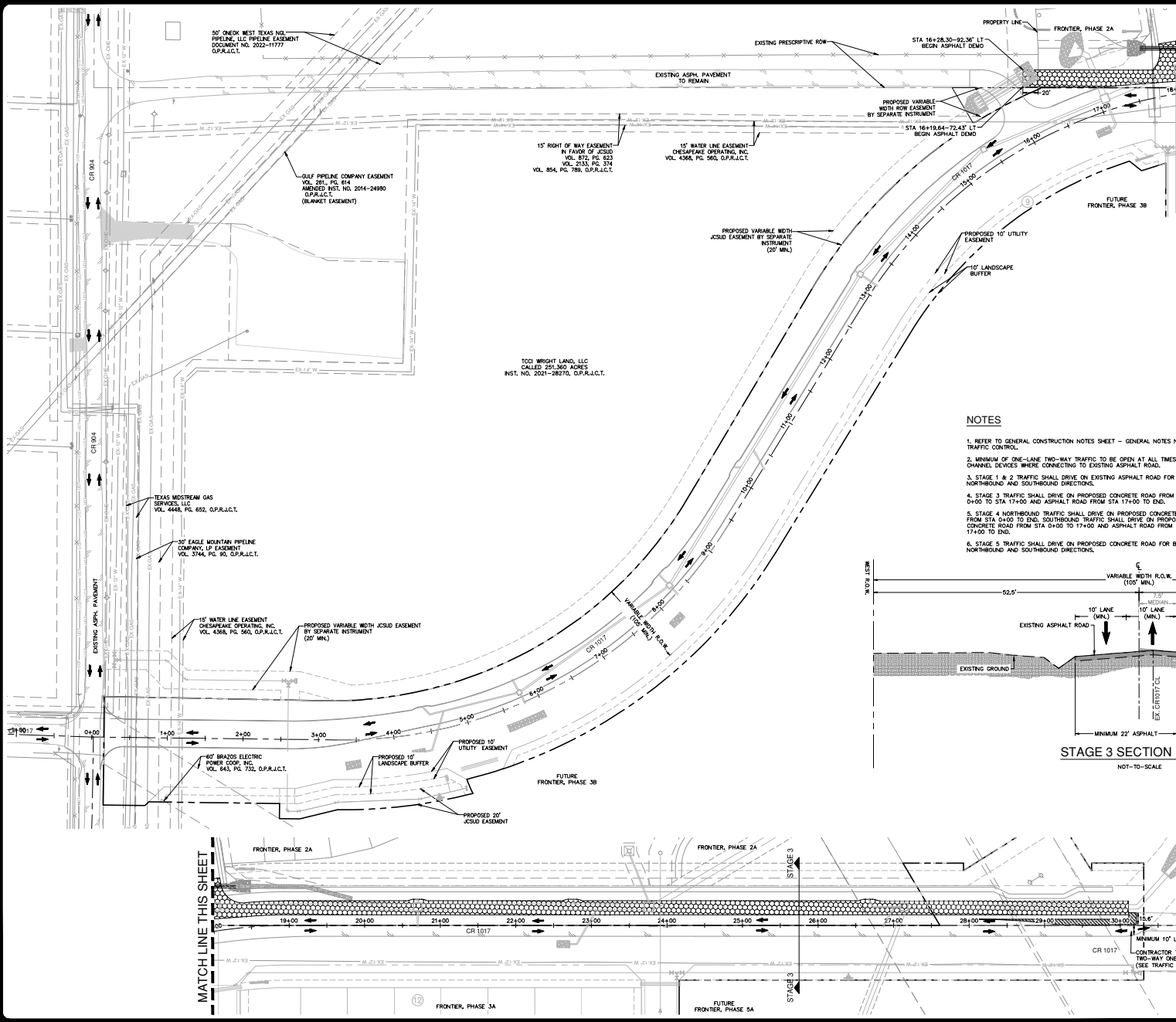


FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 CONSTRUCTION PHASING PLAN
 STAGE 1

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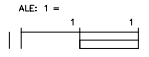
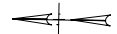
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BENCHMARKS
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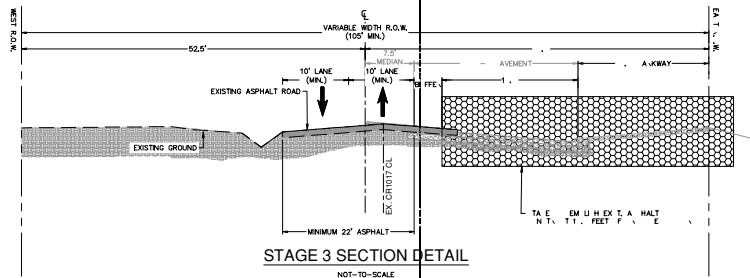
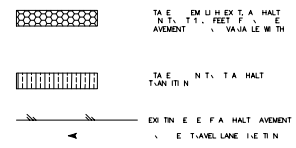
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N 114' 4"	N 114' 4"	N 114' 4"	N 114' 4"	N 114' 4"
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 13'	ELEV. 4'



NOTES

- REFER TO GENERAL CONSTRUCTION NOTES SHEET - GENERAL NOTES NO. 1 TRAFFIC CONTROL.
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LEGEND

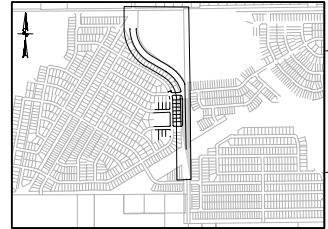
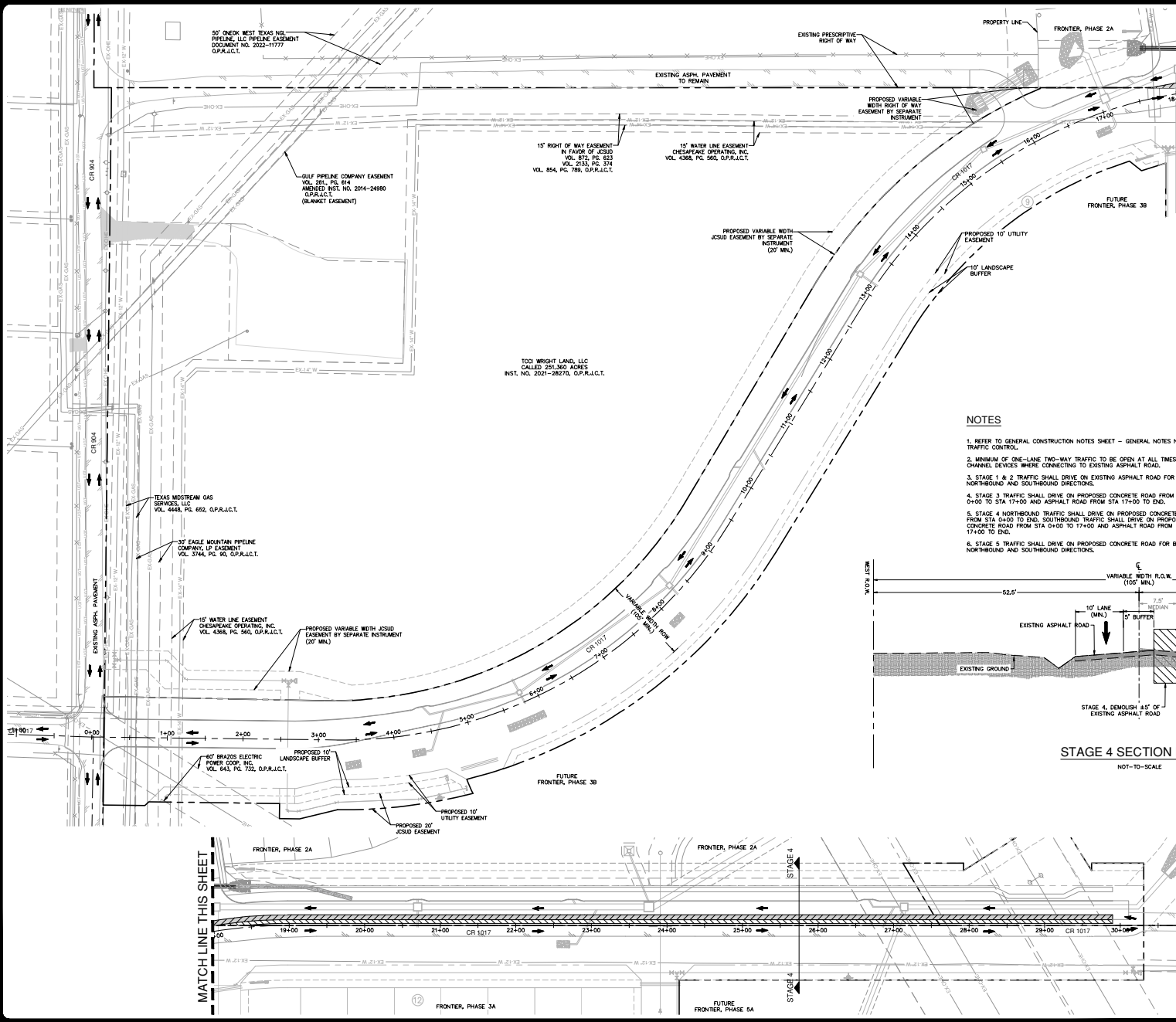


FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 CONSTRUCTION PHASING PLAN
 STAGE 3

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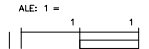
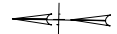
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BENCHMARKS
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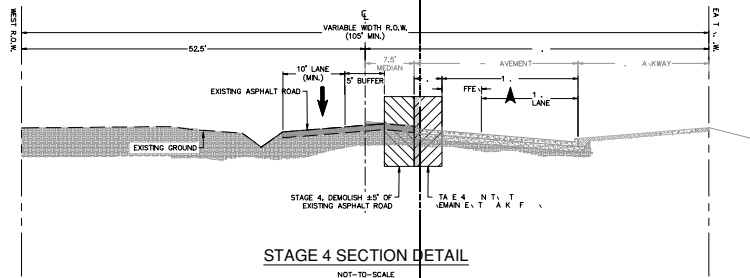
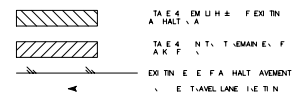
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N 11 4	N 11 4	N 11 4	N 11 4	N 11 4
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 4.1



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LEGEND

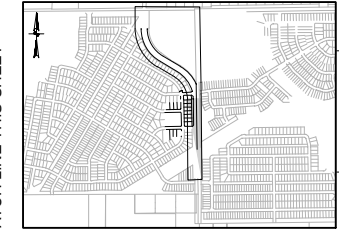
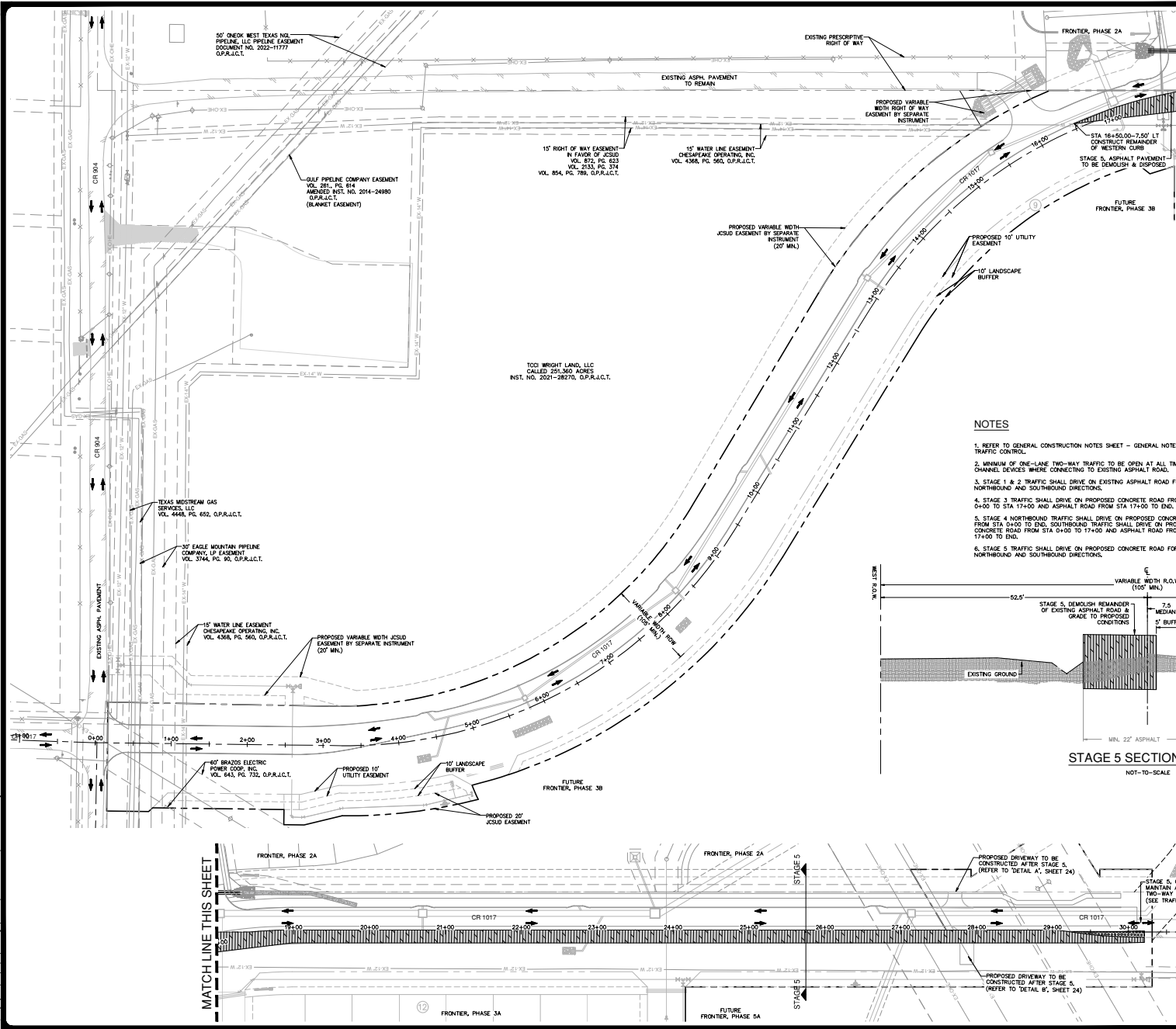


FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 CONSTRUCTION PHASING PLAN
 STAGE 4

LAT N: N/A
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 ATE: E DM E V
 E I NE: KA
 HE KE: AL, LAM, EA
 HEET: 9

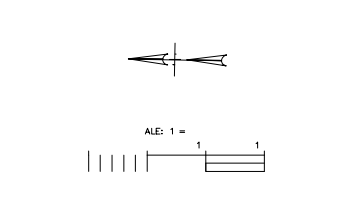
REVIEW SET - NOT FOR CONSTRUCTION

Date: Tue, 27, 2024, 6:06am User: G. Comery
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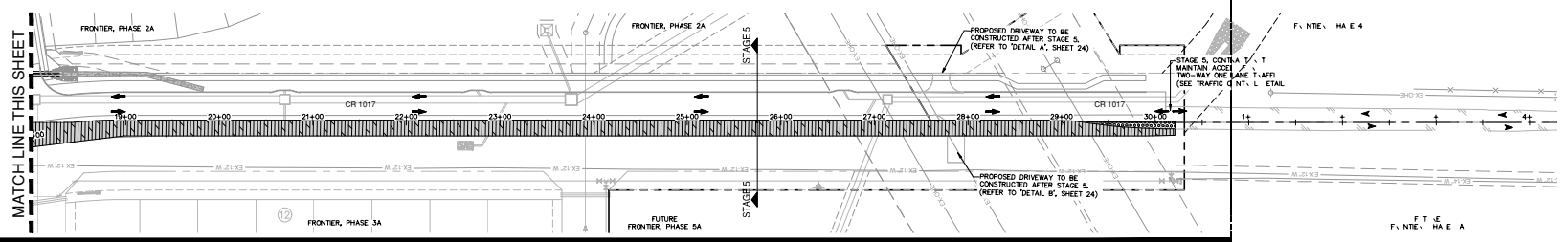
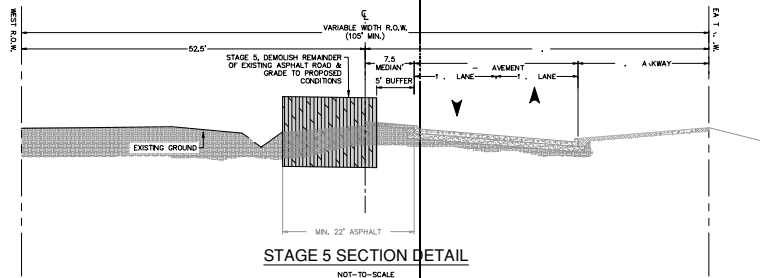
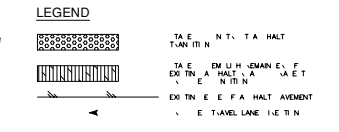


BENCHMARKS
 N T-T - ALE

CP #1	CP #2	CP #3	CP #4	CP #5
H 7 11	H 8 14	H 7 11	H 7 11	H 7 11
N 11 4	N 11 4	N 14 1	N 14 1	N 14 1
ELEV. 7.1	ELEV. 7.7	ELEV. 7	ELEV. 13	ELEV. 41



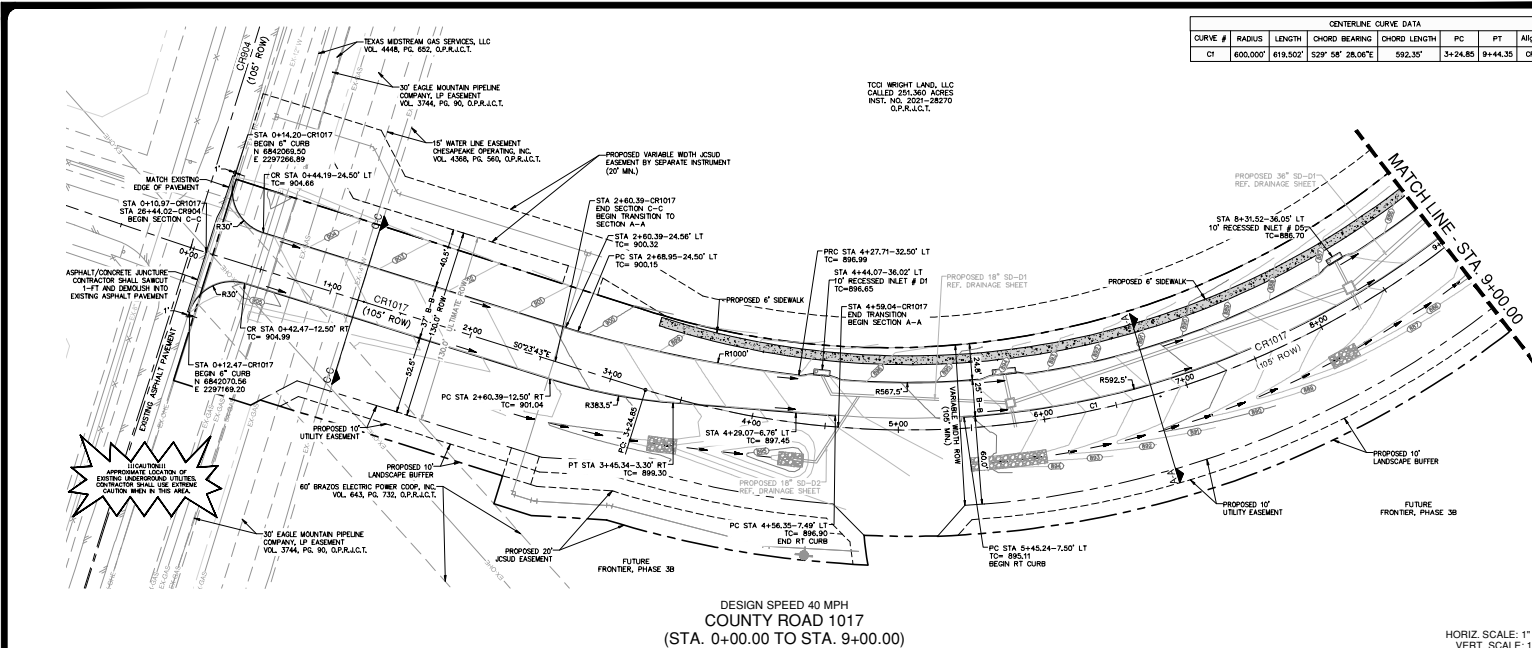
- NOTES**
- REFER TO GENERAL CONSTRUCTION NOTES SHEET - GENERAL NOTES NO. 1 TRAFFIC CONTROL.
 - MINIMUM OF ONE-LANE TWO-WAY TRAFFIC TO BE OPEN AT ALL TIMES WITH CHANNEL DEVICES WHERE CONNECTING TO EXISTING ASPHALT ROAD.
 - STAGE 1 & 2 TRAFFIC SHALL DRIVE ON EXISTING ASPHALT ROAD FOR NORTHBOUND AND SOUTHBOUND DIRECTIONS.
 - STAGE 3 TRAFFIC SHALL DRIVE ON PROPOSED CONCRETE ROAD FROM STA 0+00 TO STA 17+00 AND ASPHALT ROAD FROM STA 17+00 TO END.
 - STAGE 4 NORTHBOUND TRAFFIC SHALL DRIVE ON PROPOSED CONCRETE ROAD FROM STA 0+00 TO END, SOUTHBOUND TRAFFIC SHALL DRIVE ON PROPOSED CONCRETE ROAD FROM STA 0+00 TO 17+00 AND ASPHALT ROAD FROM STA 17+00 TO END.
 - STAGE 5 TRAFFIC SHALL DRIVE ON PROPOSED CONCRETE ROAD FOR BOTH NORTHBOUND AND SOUTHBOUND DIRECTIONS.



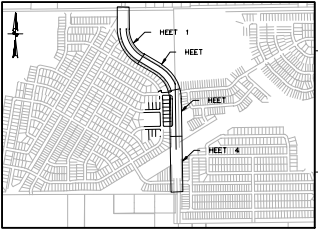
FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 CONSTRUCTION PHASING PLAN
 STAGE 5

LAT N	N/A
N	7 17 - 7
ATE	E M E L
E I N E	KA
HE KE	A N N N EA
HEET	10

REVIEW SET - NOT FOR CONSTRUCTION

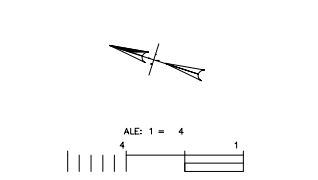


CENTERLINE CURVE DATA						
CURVE #	RADIUS	LENGTH	CHORD BEARING	CHORD LENGTH	PC	PT
C1	600,000'	619.502'	S29° 58' 28.06\"/>			



BENCHMARKS

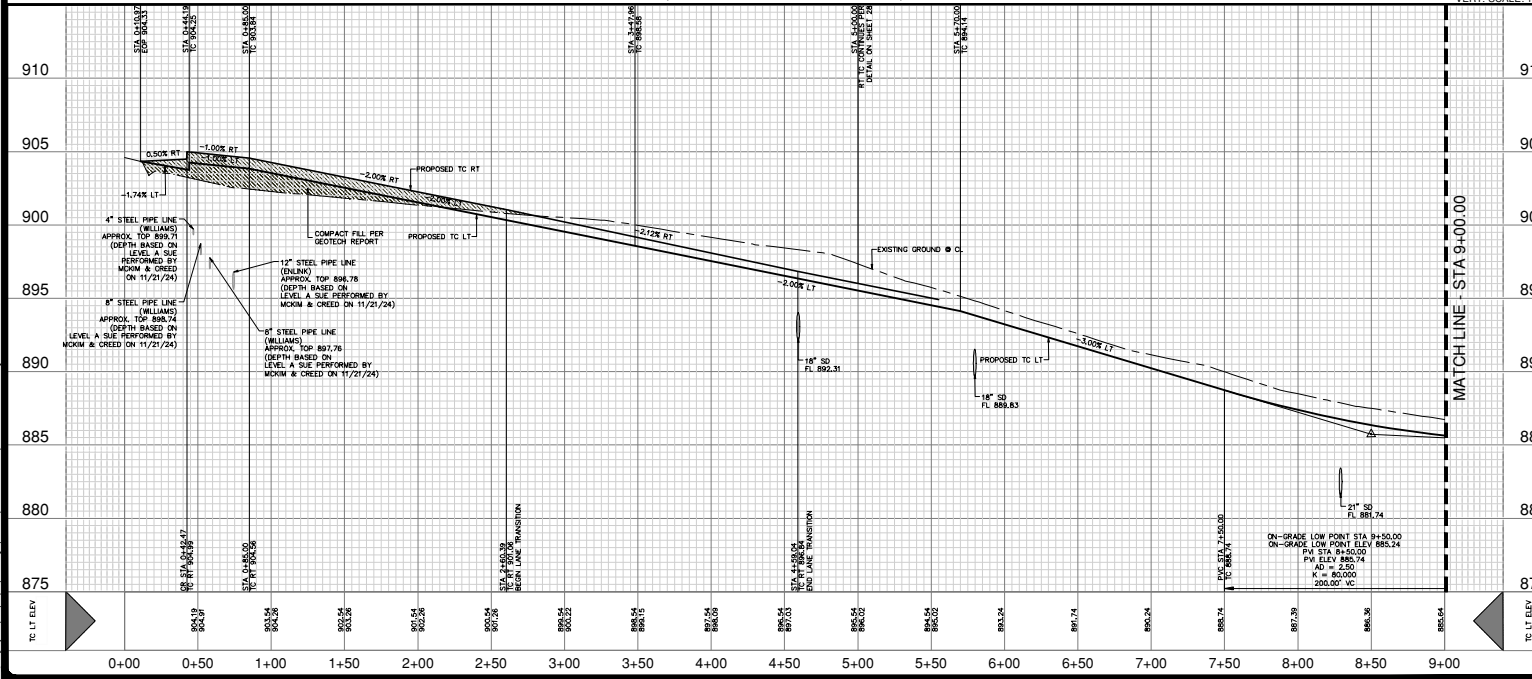
CP #1	CP #2	CP #3	CP #4	CP #5
H 7 11	H 7 11	H 7 11	H 7 11	H 7 11
RE 7 3	RE 11 4	RE 14 4	RE 14 4	RE 4 1
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 7.3	ELEV. 4.1



STREET LEGEND

[Symbol]	N-UTE I EMAIN Y EVEL E
[Symbol]	THI -NTA T
[Symbol]	N-UTE I EMAIN Y H ME IL E E N T
[Symbol]	IN TH -NTA T
[Symbol]	-JA E LEAK T-T F
[Symbol]	0 -T-LET NAME HAN E
[Symbol]	H-HI H INT T-T F AVEMENT
[Symbol]	L-L W INT V-VALLEY TE
[Symbol]	-ANA E FL W A W

- NOTES**
1. ALL EXISTING UTILITY LINES ARE TO BE MAINTAINED AND NOT REMOVED UNLESS OTHERWISE NOTED.
 2. ALL EXISTING WALLS ARE TO BE MAINTAINED UNLESS OTHERWISE NOTED.
 3. ALL EXISTING UTILITY LINES ARE TO BE MAINTAINED UNLESS OTHERWISE NOTED.
 4. ALL EXISTING UTILITY LINES ARE TO BE MAINTAINED UNLESS OTHERWISE NOTED.



UTILITY NOTE

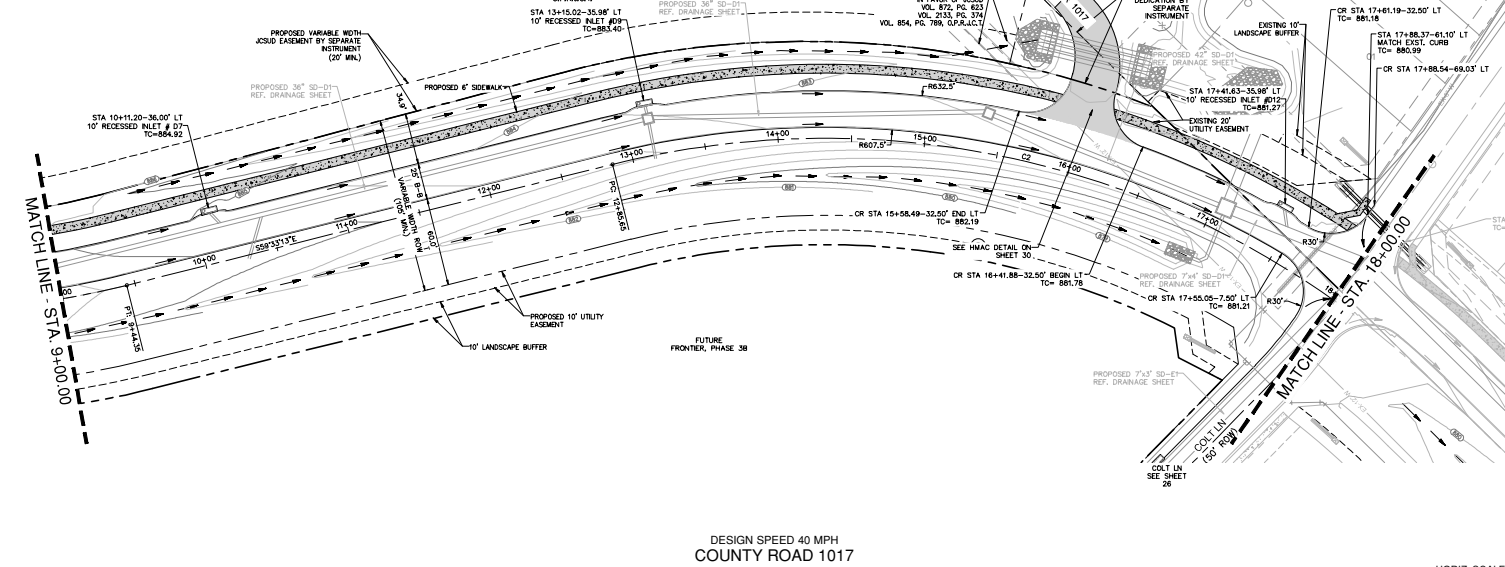
THE EXISTING UTILITY LINES ARE TO BE MAINTAINED AND NOT REMOVED UNLESS OTHERWISE NOTED. ALL EXISTING UTILITY LINES ARE TO BE MAINTAINED UNLESS OTHERWISE NOTED.

LAT: N/A
 N: 7.17 - 7
 E: 8.0
 ATE: N/A
 HEET: 21

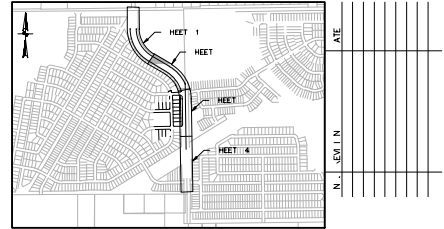
FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 PAVING PLAN & PROFILE - CR 1017
 STA 0+00.00 TO STA 9+00.00

REVIEW SET - NOT FOR CONSTRUCTION

CENTERLINE CURVE DATA					
CURVE #	RADIUS	LENGTH	CHORD BEARING	CHORD LENGTH	PC PT Alignment
C2	600.00'	612.40'	S30° 18' 48.52"E	586.16'	12+85.65 18+98.05 CR1017

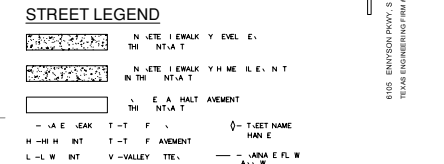
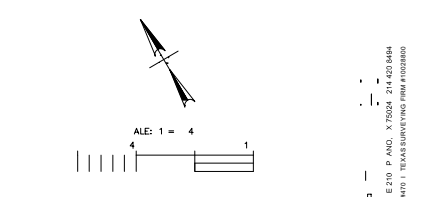


DESIGN SPEED 40 MPH
 COUNTY ROAD 1017
 (STA. 9+00.00 TO STA. 18+00.00)

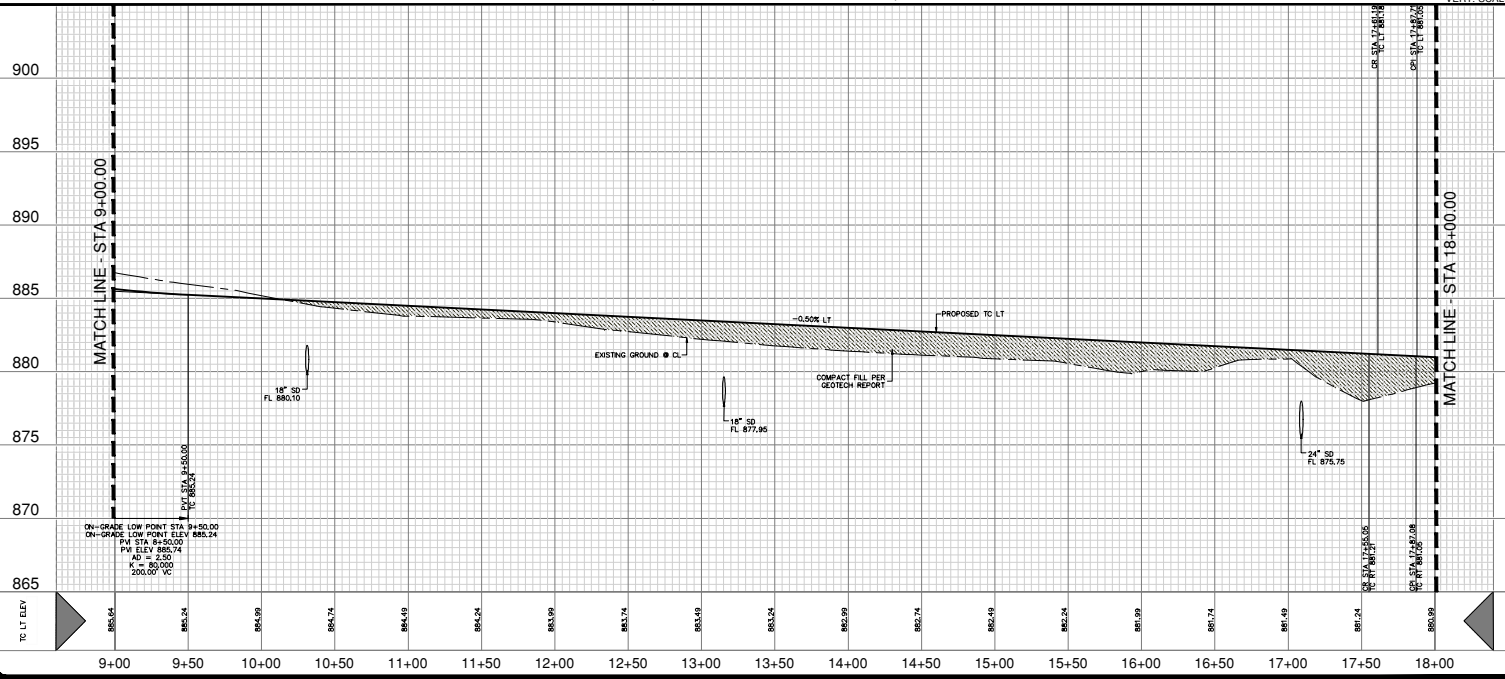


BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
H 7' 11"	H 7' 11"	H 7' 11"	H 7' 11"	H 7' 11"
BE 14.4'	BE 14.4'	BE 14.4'	BE 14.4'	BE 14.4'
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 1.3	ELEV. 4.1



- NOTES**
- ALL EXISTING UTILITY LATHING SHALL BE REMOVED AND REPLACED WITH NEW LATHING.
 - INSTALL HALL WALLS TO MATCH EXISTING WALLS.
 - INSTALL HALL WALLS TO MATCH EXISTING WALLS.
 - INSTALL HALL WALLS TO MATCH EXISTING WALLS.



UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES NOT SHOWN ON THIS PLAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

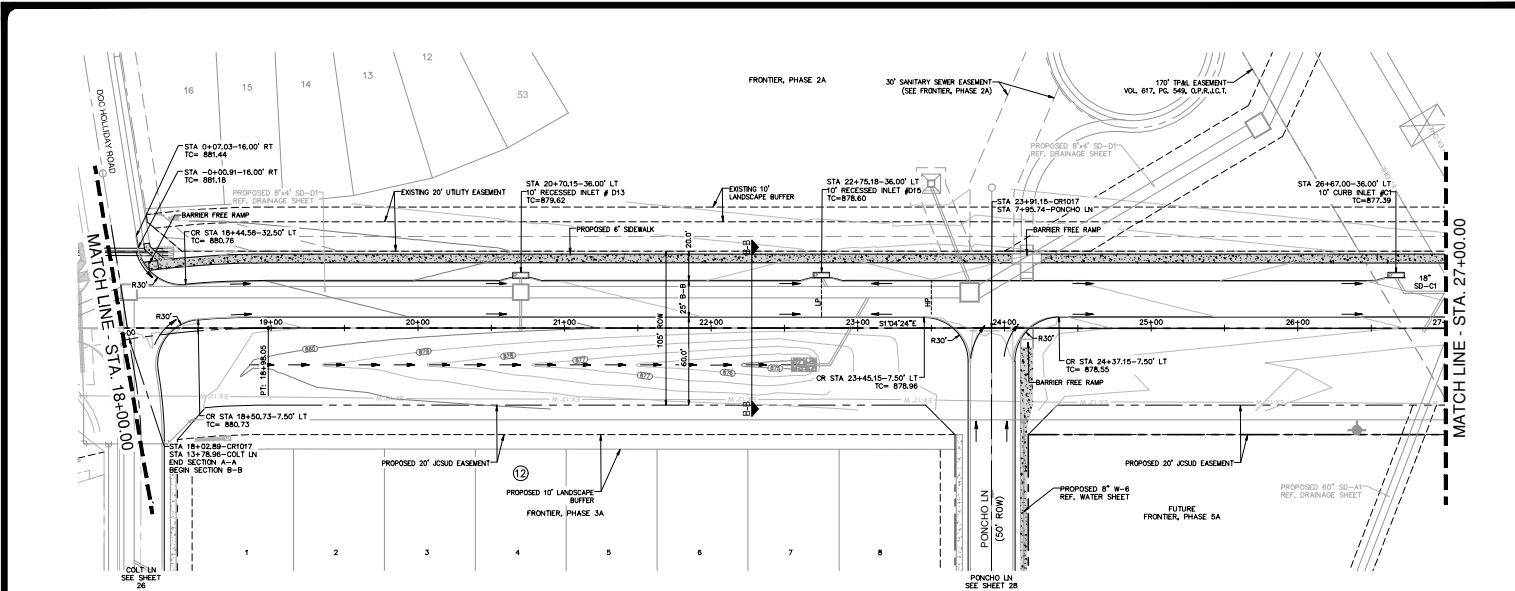
LAT N	N/A
N	7.17 - 7
ATE	E 0M E L
E I N E	M
H E K E	A L A N N
H E E T	22

Date: Dec 22, 2023, 9:58am User: G. Comber
 Path: \\msb\projects\1017\1017_03_PAVING\1017_03_PAVING.dwg
 Plot: 1017_03_PAVING.dwg

FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 PAVING PLAN & PROFILE - CR 1017

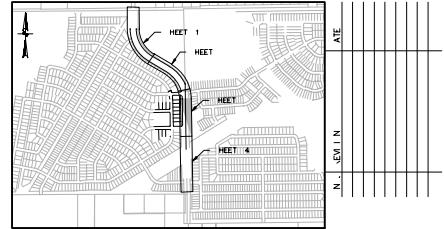
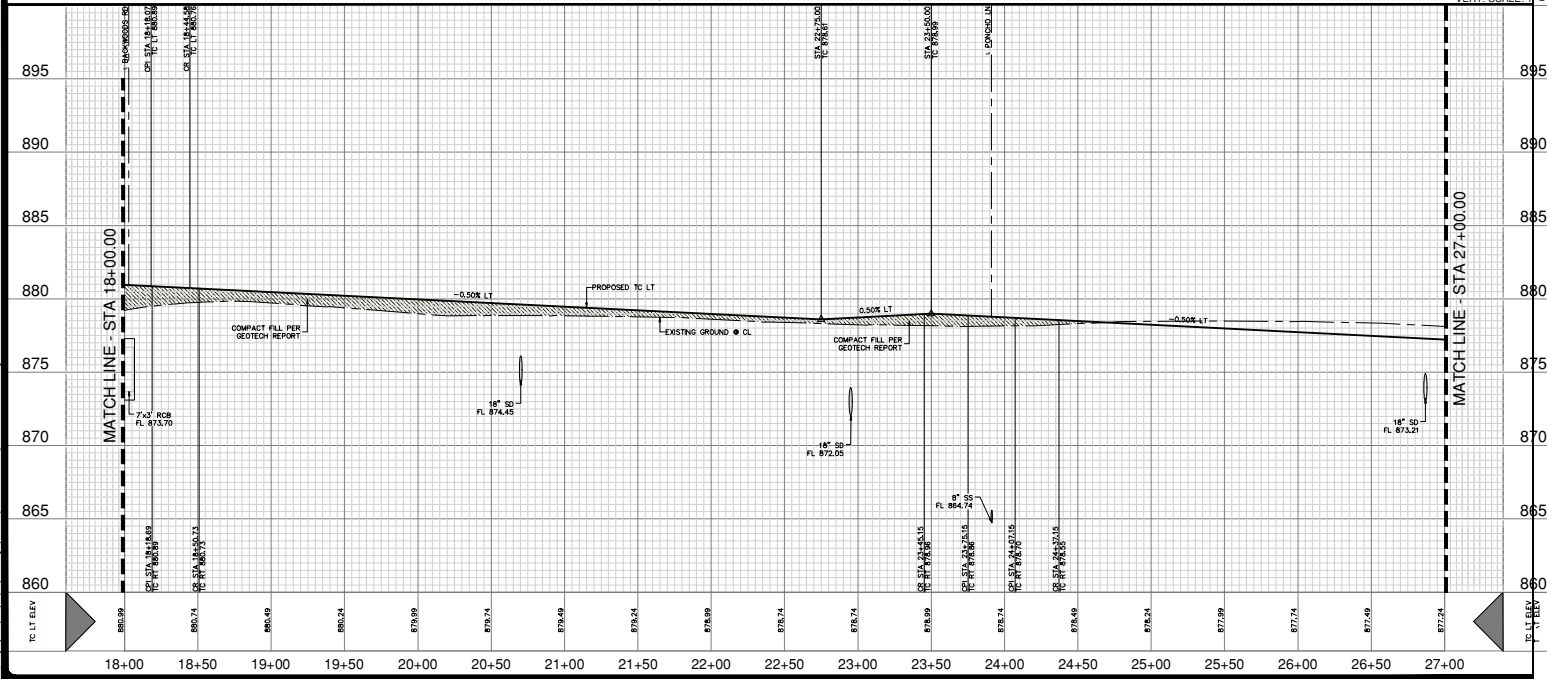
DATE: ENVOYSON RING, S.E. 210 P. AND, Y. 2024, 7:14:43 AM
 TEXAS ENGINEERING FIRM #02111 TRAVIS BERRY ENGINEERING, INC.

REVIEW SET - NOT FOR CONSTRUCTION



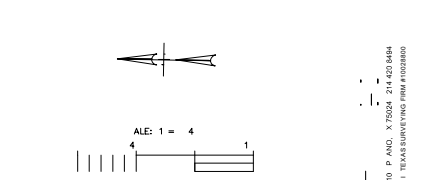
DESIGN SPEED 40 MPH
 COUNTY ROAD 1017
 (STA. 18+00.00 TO STA. 27+00.00)

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



BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
N 7 11	N 7 11	N 7 11	N 7 11	N 7 11
RE 7 11	RE 7 11	RE 7 11	RE 7 11	RE 7 11
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 4.1



STREET LEGEND

[Symbol]	N-UTE I EMAIN Y EVEL E
[Symbol]	THI NTA T
[Symbol]	N-UTE I EMAIN Y H H E. N T
[Symbol]	IN TH NTA T
[Symbol]	- JA E LEAK T-T F
[Symbol]	H-HI H INT T-T F AVEMENT HAN E
[Symbol]	L-L W INT V-VALLEY TE.
[Symbol]	- HANA E F W

- NOTES**
- ALL EXISTING UTILITY LOCATIONS ARE SHOWN AS THEY ARE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND STRUCTURES UNLESS OTHERWISE SPECIFIED.
 - ALL NEW UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TEXAS ENGINEERING PROFESSIONAL BOARD'S STANDARDS AND SPECIFICATIONS.
 - THE CONTRACTOR SHALL MAINTAIN ALL EXISTING CURBS AND GUTTERS UNLESS OTHERWISE SPECIFIED.
 - THE CONTRACTOR SHALL MAINTAIN ALL EXISTING LANDSCAPE BUFFER AREAS UNLESS OTHERWISE SPECIFIED.

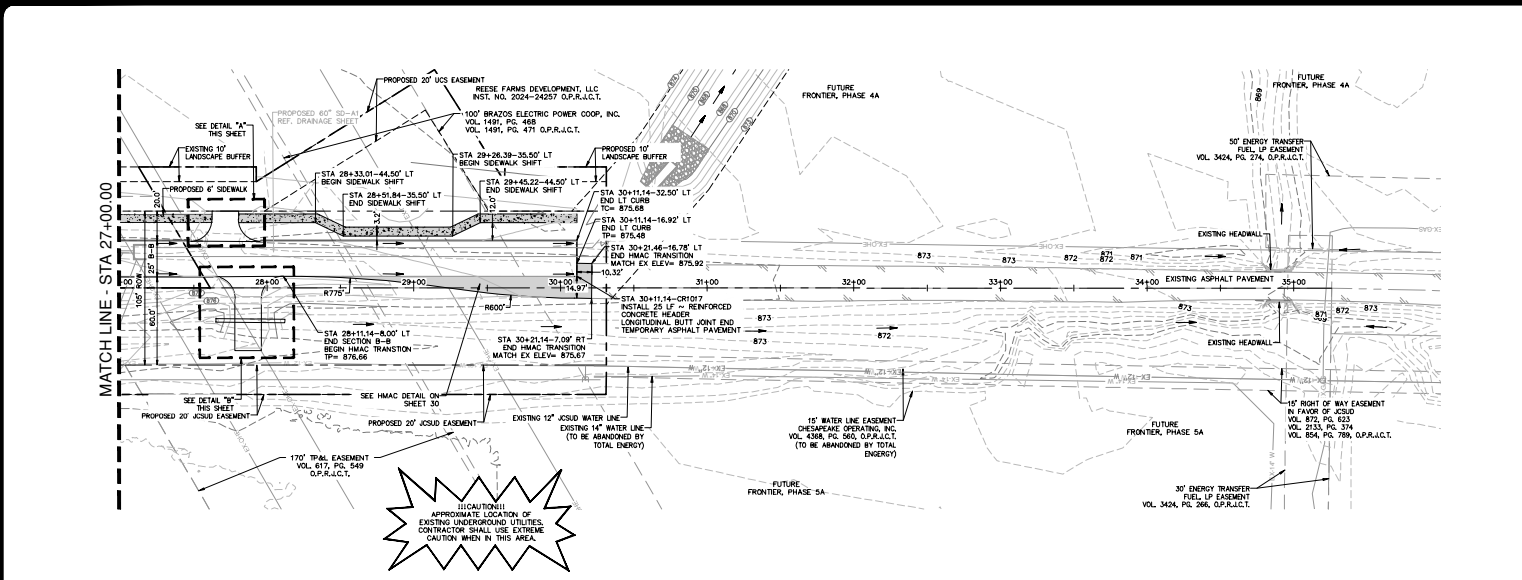
UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD SURVEY AND RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY UNIDENTIFIED UTILITIES SHALL BE MAINTAINED AND PROTECTED THROUGHOUT THE PROJECT.

LAT N	N/A
N	7.17 - 7
E	80.1
ATE	
E	IN E
E	IN E
HE	AL LANN M
HEET	23

REVIEW SET - NOT FOR CONSTRUCTION

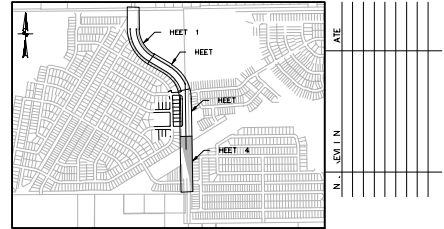
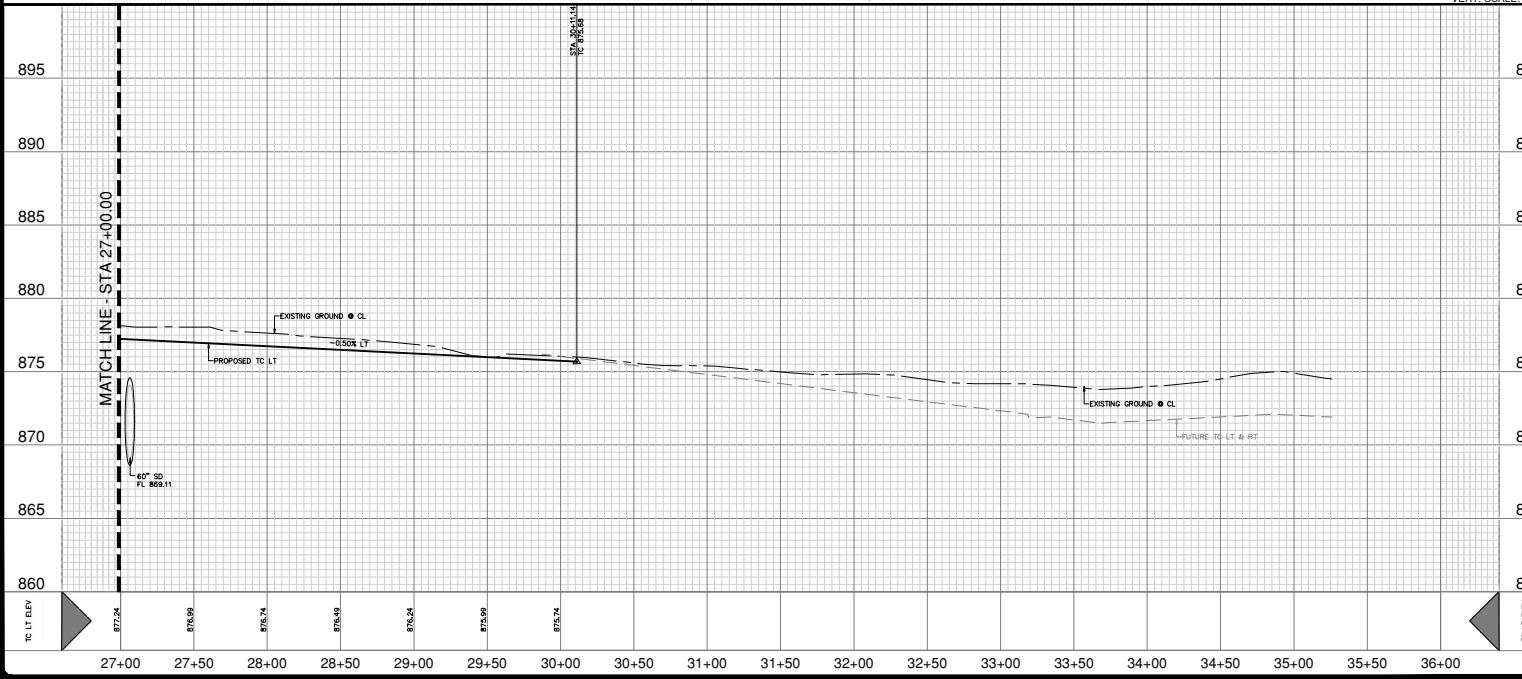
Date: Dec 22, 2024, 6:00am User: G. Comery
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 Plot: 1017_PAVING.dwg
 Plot Date: 12/22/2024 6:00:00 AM
 Plot Scale: 1" = 40' (Horizontal) / 1" = 4' (Vertical)
 Plot Size: 24.00 x 36.00 inches
 Plot Orientation: Landscape
 Plot Color: Black on White
 Plot Lineweight: 0.20 mm
 Plot Linetype: Solid
 Plot Font: Arial, 10pt
 Plot Title: COUNTY ROAD 1017 PAVING PROJECT
 Plot Author: G. Comery
 Plot Project: 1017_PAVING
 Plot Sheet: 23 of 23



CAUTION!
APPROXIMATE LOCATION OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL USE EXTREME CAUTION WHEN IN THIS AREA.

DESIGN SPEED 40 MPH
COUNTY ROAD 1017
(STA. 27+00.00 TO END)

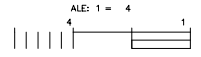
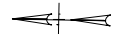
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



KEY MAP

BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
H 7' 11"	H 7' 11"	H 7' 11"	H 7' 11"	H 7' 11"
N 11' 4"	N 11' 4"	N 11' 4"	N 11' 4"	N 11' 4"
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 7.3	ELEV. 4.1

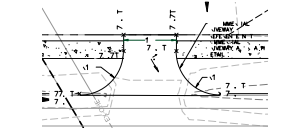


STREET LEGEND

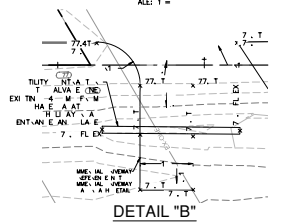
- N - AVE 1' EASEMENT Y ELEV. E.
- TH - N/A T
- N - AVE 1' EASEMENT Y H ME. H. E. N T
- TH - N/A T
- N - AVE 1' EASEMENT
- TH - N/A T
- JA - SEAK T-T F
- H-H H INT T-T F AVENMENT
- L-L W INT V - VALLEY TEE
- T-REET NAME
- HAN E
- JANA E FL W
- A L L W

NOTES

1. ALL EXISTING UTILITIES ARE TO BE MAINTAINED AND NOT REMOVED UNLESS OTHERWISE NOTED.
2. INTERSECTION WALLS TO BE CONSTRUCTED TO THE CENTERLINE OF THE ROAD.
3. ALL EXISTING UTILITIES ARE TO BE MAINTAINED AND NOT REMOVED UNLESS OTHERWISE NOTED.
4. INTERSECTION WALLS TO BE CONSTRUCTED TO THE CENTERLINE OF THE ROAD.



DETAIL "A"



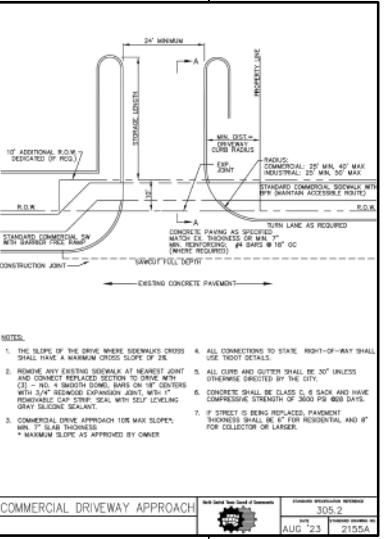
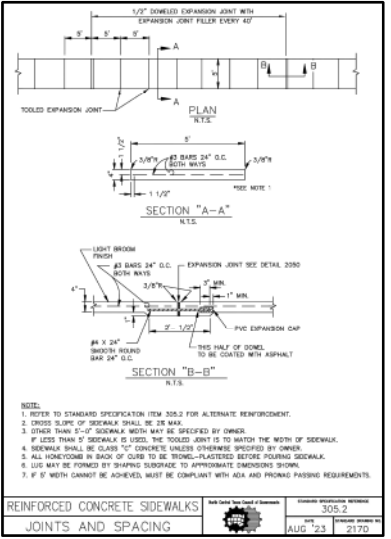
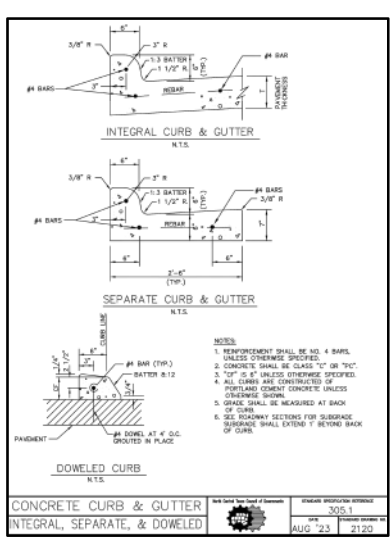
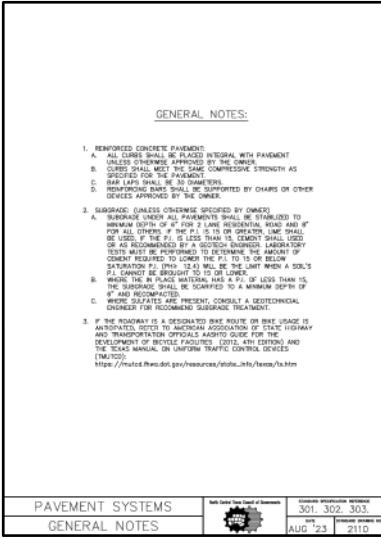
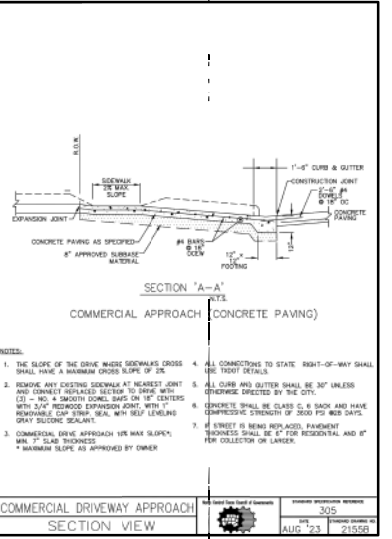
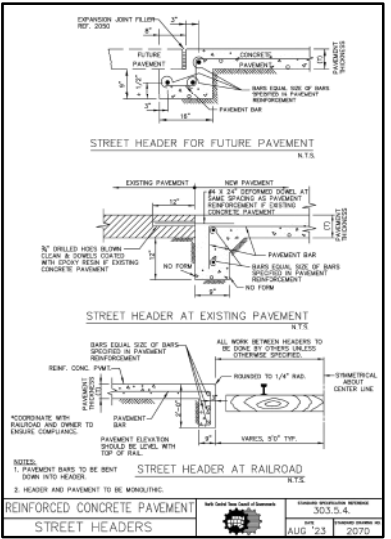
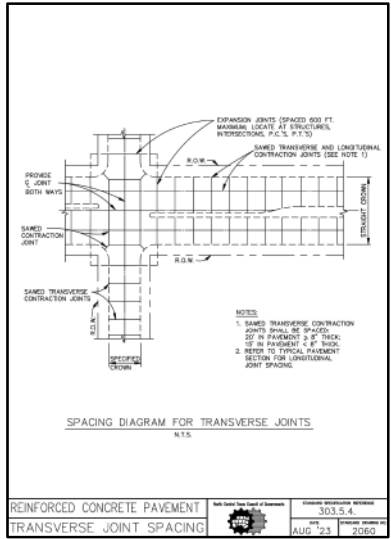
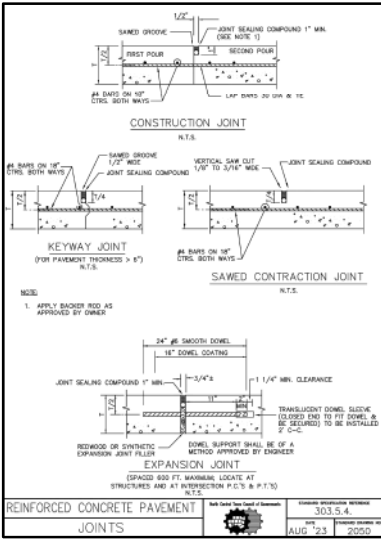
DETAIL "B"

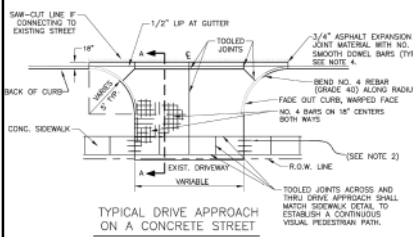
UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF ANY UTILITIES ARE FOUND TO BE DIFFERENT FROM THE RECORD DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

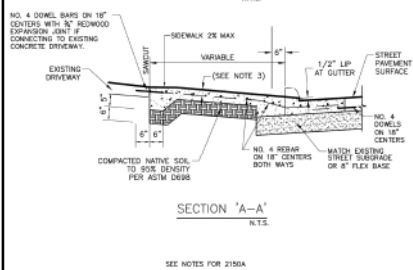
FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 PAVING PLAN & PROFILE - CR 1017
 STA. 27+00.00 TO END

LAT N	N/A
N	7.17 - 7
ATE	E 0M E
E	M
HE KE	A L L W
HEET	24



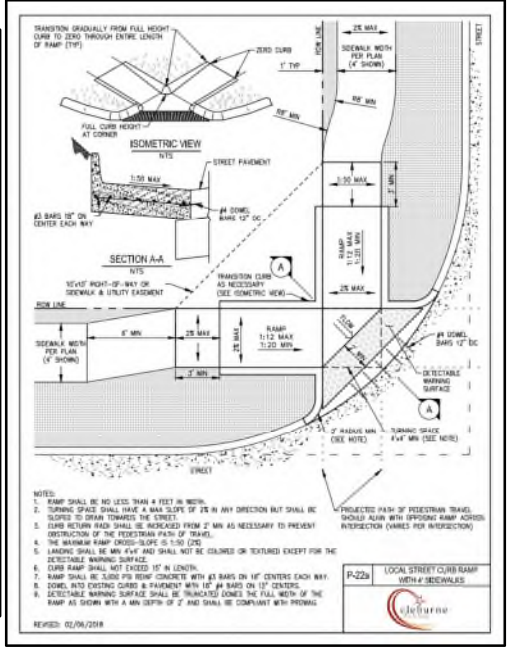


TYPICAL DRIVE APPROACH ON A CONCRETE STREET



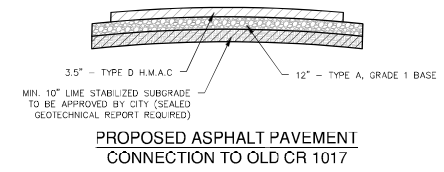
SECTION "A-A"

RESIDENTIAL DRIVE APPROACH ON A CONCRETE STREET
 AUG 23 2150C

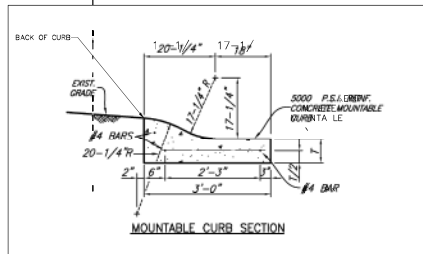


- NOTES:
- RAMP SHALL BE NO LESS THAN 4 FEET IN WIDTH.
 - TURNING SPACE SHALL HAVE A MAX SLOPE OF 2% IN ANY DIRECTION BUT SHALL BE SLOPED TO DRAIN TOWARD THE STREET.
 - CURB RETURN RADIUS SHALL BE REINFORCED FROM 2' MIN AS NECESSARY TO PREVENT DISTORTION OF THE FREEBOARD PART OF ROAD.
 - THE MAXIMUM RAMP CROSS-SLOPE IS 1:50 (2%).
 - LANDINGS SHALL BE MIN 4'x4' AND SHALL NOT BE COLORED OR TEXTURED CHECK FOR THE DETECTABLE WARNING SURFACE.
 - CURB RAMP SHALL NOT EXCEED 10" IN LENGTH.
 - RAMP SHALL BE CAST IN PLACE CONCRETE WITH #3 BARS ON 18" CENTERS EACH WAY.
 - DOWN INTO EXISTING CURB & PAVEMENT WITH 10" #4 BARS ON 18" CENTERS.
 - DETECTABLE WARNING SURFACE SHALL BE PLACED ALONG THE FULL WIDTH OF THE RAMP AS SHOWN WITH A MIN DEPTH OF 2" AND SHALL BE COMPLIANT WITH PREVIOUS.

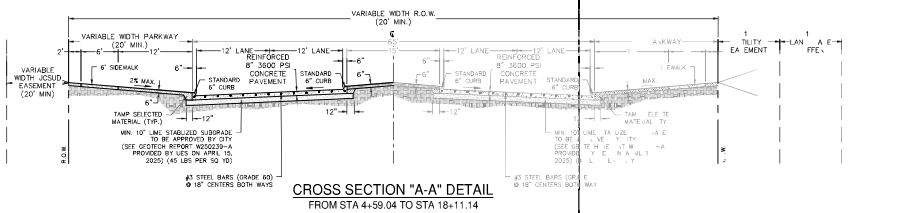
REVISION: 02/09/2018
 LOCAL STREET CURB RAMP



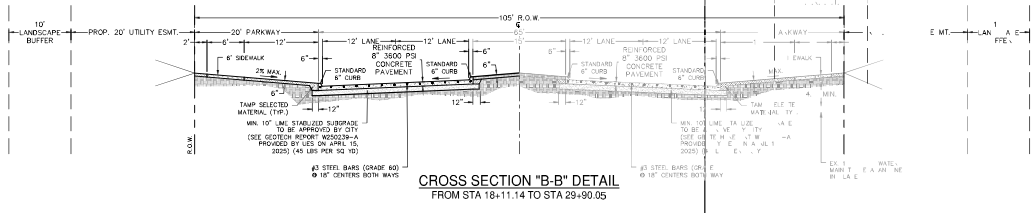
PROPOSED ASPHALT PAVEMENT CONNECTION TO OLD CR 1017



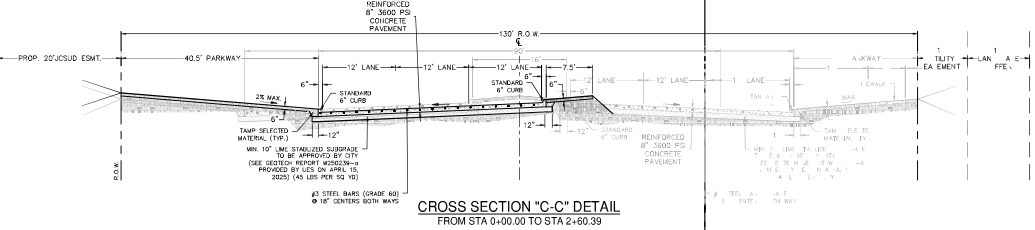
MOUNTABLE CURB SECTION



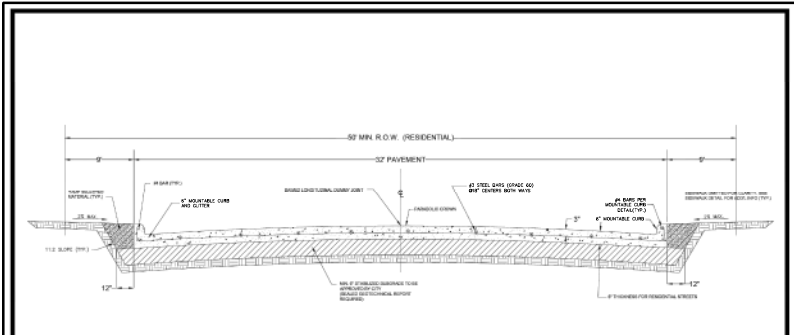
CROSS SECTION "A-A" DETAIL FROM STA 4+59.04 TO STA 18+11.14



CROSS SECTION "B-B" DETAIL FROM STA 18+11.14 TO STA 29+90.05



CROSS SECTION "C-C" DETAIL FROM STA 0+00.00 TO STA 29+60.39

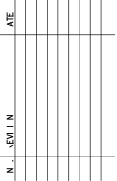


TYPICAL STREET SECTION - NEW RESIDENTIAL

- NOTES:
- GEOTECHNICAL REPORT PREPARED BY LICENSED ENGINEER IS REQUIRED TO DETERMINE LIME OR CHEMIST APPLICATION RATE.
 - SUBGRADE COMPACTOR SHALL BE HIGH STANDING PROCTOR DENSITY.
 - LINE SHALL BE APPLIED ON BY WEIGHT APPLICATION RATE IS 27 LBS./SY.
 - MINIMUM QUANTITY OF CHEMIST FOR A LINE SERIES TEST MAY BE REQUIRED AT THE CITY'S DISCRETION.
 - CONCRETE SHALL BE APPLIED AT 4 IN BY WEIGHT. MINIMUM QUANTITY IS 28.85 SY.
 - 28-DAY CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 PSI FOR MACHINE POUR AND 4200 PSI FOR HAND POUR.
 - CONCRETE PAVEMENT SHALL BE FINISHED PLACED FINISHED BY MECHANICAL VIBRATORY SCREED OR SLP FORM PAVEMENT UNLESS OTHERWISE APPROVED BY CITY.



ENGINEERING SERVICES DEPARTMENT

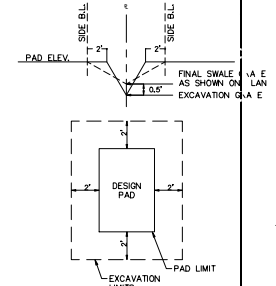
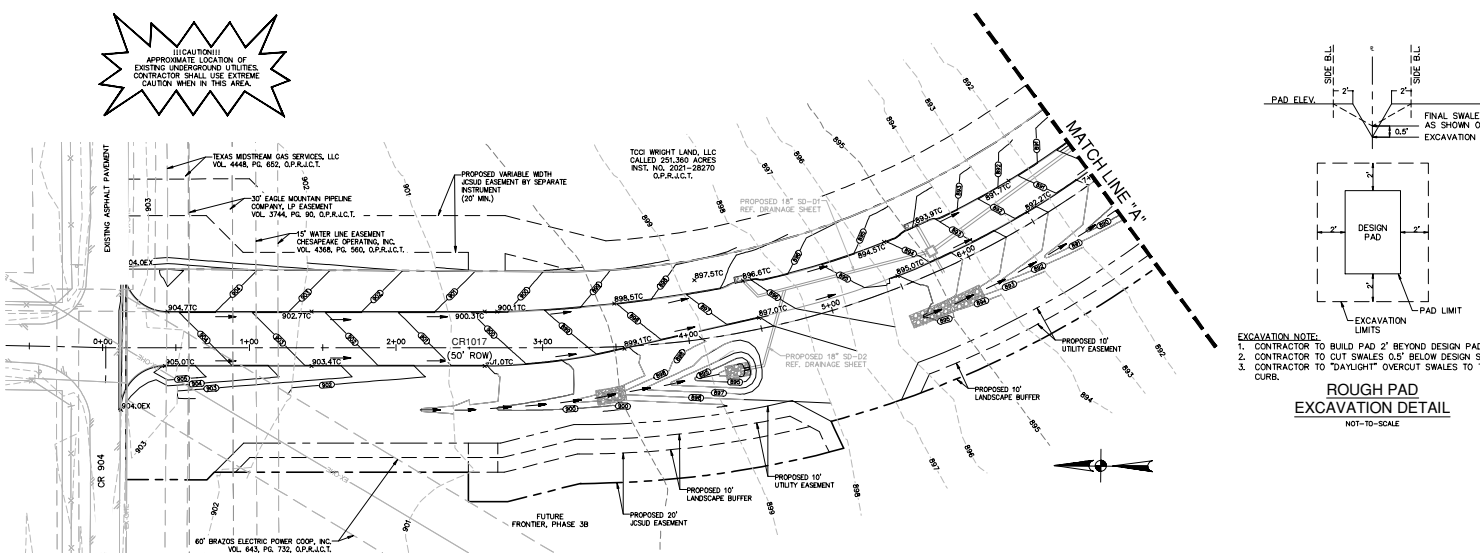


FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 PAVING DETAILS

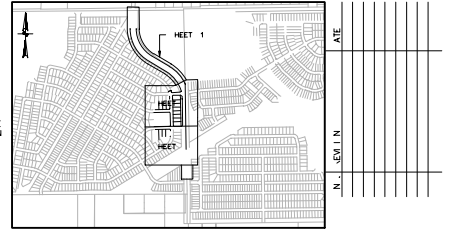
LAT N/A
 N 7.17 - 7
 E 0 M E.
 F I I E
 HE KE AL AMN
 HEET 30

REVIEW SET - NOT FOR CONSTRUCTION

CAUTION!
APPROXIMATE LOCATION OF
EXISTING UNDERGROUND UTILITIES.
CONTRACTOR SHALL USE EXTREME
CAUTION WHEN IN THIS AREA.

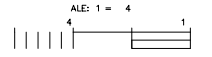


**ROUGH PAD
EXCAVATION DETAIL**
NOT-TO-SCALE



BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
H 7 11	N 11 4	H 7 11	H 7 11	H 7 11
N 11 4	N 11 4	N 11 4	N 11 4	N 11 4
Elev. 7.1	Elev. 7.7	Elev. 7.7	Elev. 7.7	Elev. 4.1

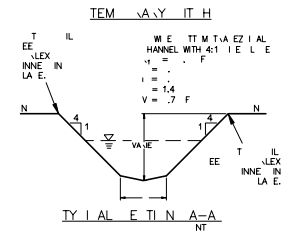


LEGEND

- EXISTING UTILITY
- EXISTING RETAINING WALL
- VALLEY TIE
- FINISH WALL
- FF FINISH FLOOR
- F FINISH GRADE
- FL FINISH LINE
- T F
- T F AVENMENT
- TW TYPICAL WALL
- W WALL
- EW EXISTING WALL
- H HIGH POINT
- L LOW POINT
- LT LAND TYPICAL

NOTES

1. MATCH LINE SHALL BE TYPICAL WITH THE EXISTING RETAINING WALL.
2. ALL TYPICAL FINISH GRADE SHALL BE THE FINISH GRADE.
3. WALL FINISH WITH FINISH GRADE IN LAND TYPICAL WITH THE EXISTING RETAINING WALL.
4. ALL THE WALL SHALL BE FULLY EXHAUSTIVE WITH A VERY EASY TO WRITE THE TYPICAL FINISH GRADE IN TYPICAL.



**TYPICAL ROUGH GRADING
CROSS SECTION**
NOT-TO-SCALE

A. R.O.W. TO BE GRADED WITH 1/4" PER FOOT TO STREET.
B. FRONT YARD TO BE GRADED AT A 3:1 SLOPE 2' OFF THE FRONT SETBACK LINE AND THEN SLOPED AT 1:0.5 TO STREET R.O.W.
C. EXCAVATION CONTRACTOR SHALL CUT 6" BEHIND BACK OF CURB UNLESS OTHERWISE NECESSARY FOR MOISTURE CONDITIONING. CURBS SHALL BE BACKFILLED WITH UTILITY SPOOLS.

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
GRADING PLAN

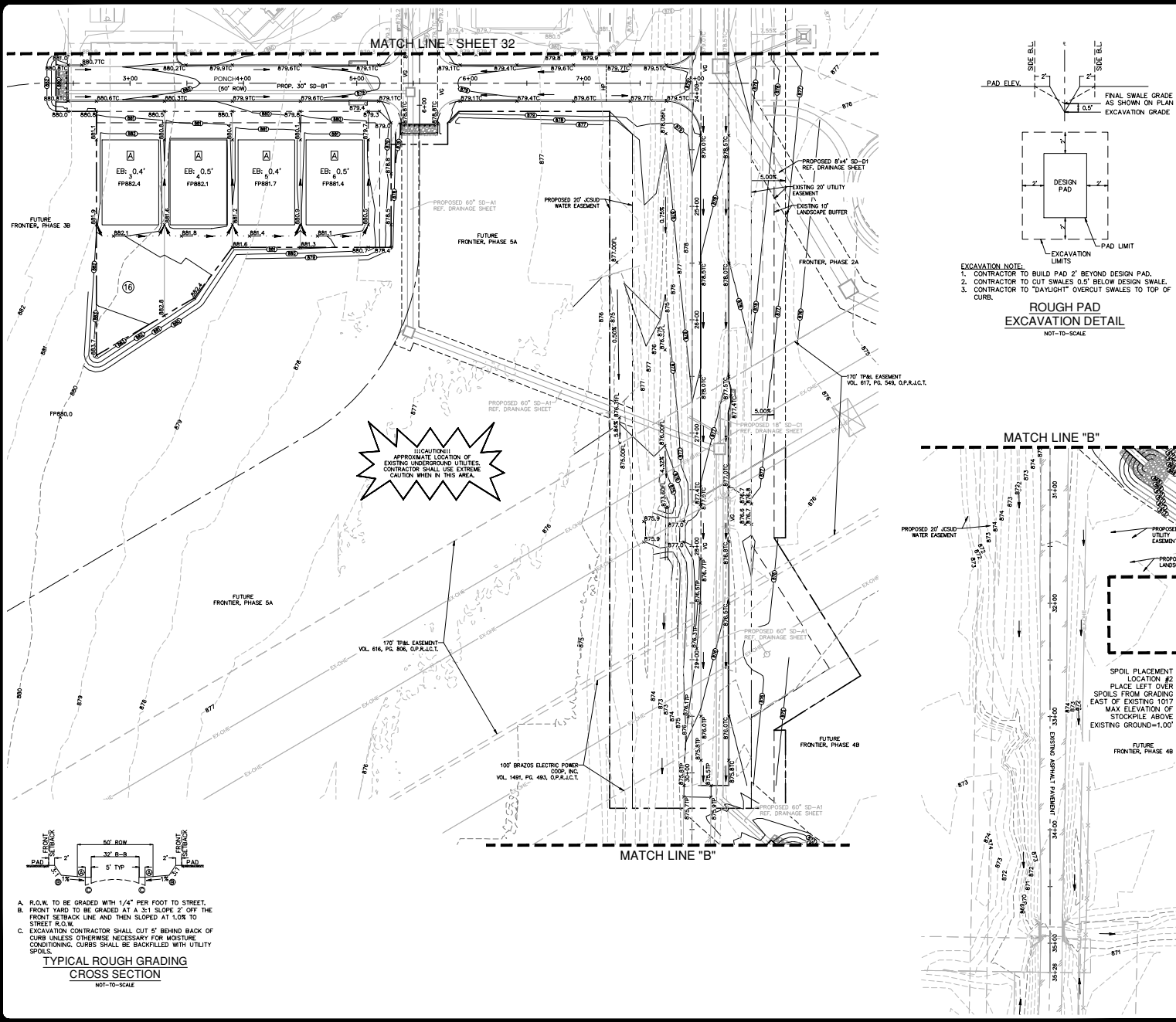
LAT	N/A
N	7.17 - 7
E	EM 1.5
ATE	EM 1.5
E	EM 1.5
HE	EM 1.5
HEET	31

UTILITY NOTE

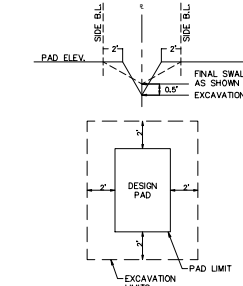
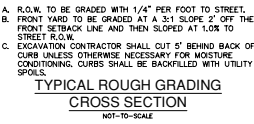
THE EXISTING UTILITY CHANNEL WITH 4:1 ELEVATION SHALL BE THE EXISTING UTILITY CHANNEL WITH 4:1 ELEVATION. THE UTILITY CHANNEL SHALL BE THE EXISTING UTILITY CHANNEL WITH 4:1 ELEVATION. THE UTILITY CHANNEL SHALL BE THE EXISTING UTILITY CHANNEL WITH 4:1 ELEVATION.

REVIEW SET - NOT FOR CONSTRUCTION

Date: 06/27/2024 09:00 AM User: G. Comery
 File: \\s:\projects\2024\06\062724\062724.dwg Plot: Sheet: 06 - 01/07/2024

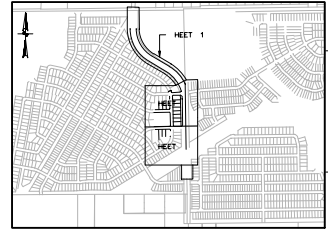


APPROXIMATE LOCATION OF
 EXISTING UNDERGROUND UTILITIES.
 CONTRACTOR SHALL USE EXTREME
 CAUTION WHEN IN THIS AREA.



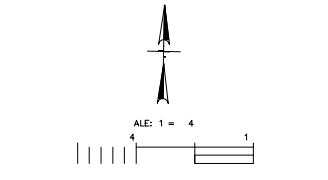
EXCAVATION NOTE:
 1. CONTRACTOR TO BUILD PAD 2' BEYOND DESIGN PAD.
 2. CONTRACTOR TO CUT SWALES 0.5' BELOW DESIGN SWALE.
 3. CONTRACTOR TO "DAYLIGHT" OVERCUT SWALES TO TOP OF CURB.

ROUGH PAD EXCAVATION DETAIL
 NOT-TO-SCALE



BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
N 7.11	N 7.11	N 7.11	N 7.11	N 7.11
E 7.11	E 7.11	E 7.11	E 7.11	E 7.11
Elev. 7.11	Elev. 7.7	Elev. 7.7	Elev. 7.7	Elev. 4.1



LEGEND

	EASEMENT
	RETAINING WALL
	VALLEY
	FLOW LINE
	FRONT SETBACK
	FRONT EASEMENT
	FRONT LINE
	FRONT WALL
	FRONT FOOTING
	FRONT FOUNDATION
	FRONT WALL FOOTING
	FRONT WALL FOUNDATION
	FRONT WALL FOOTING
	FRONT WALL FOUNDATION
	FRONT WALL FOOTING
	FRONT WALL FOUNDATION
	FRONT WALL FOOTING
	FRONT WALL FOUNDATION

- NOTES**
1. RETAINING WALLS SHALL BE CONCRETE WITH REINFORCING BARS AND SHALL BE FINISHED WITH A FINISH AS SHOWN ON PLAN.
 2. WALLS SHALL BE FINISHED WITH A FINISH AS SHOWN ON PLAN.
 3. ALL WALLS SHALL BE FINISHED WITH A FINISH AS SHOWN ON PLAN.
 4. ALL WALLS SHALL BE FINISHED WITH A FINISH AS SHOWN ON PLAN.

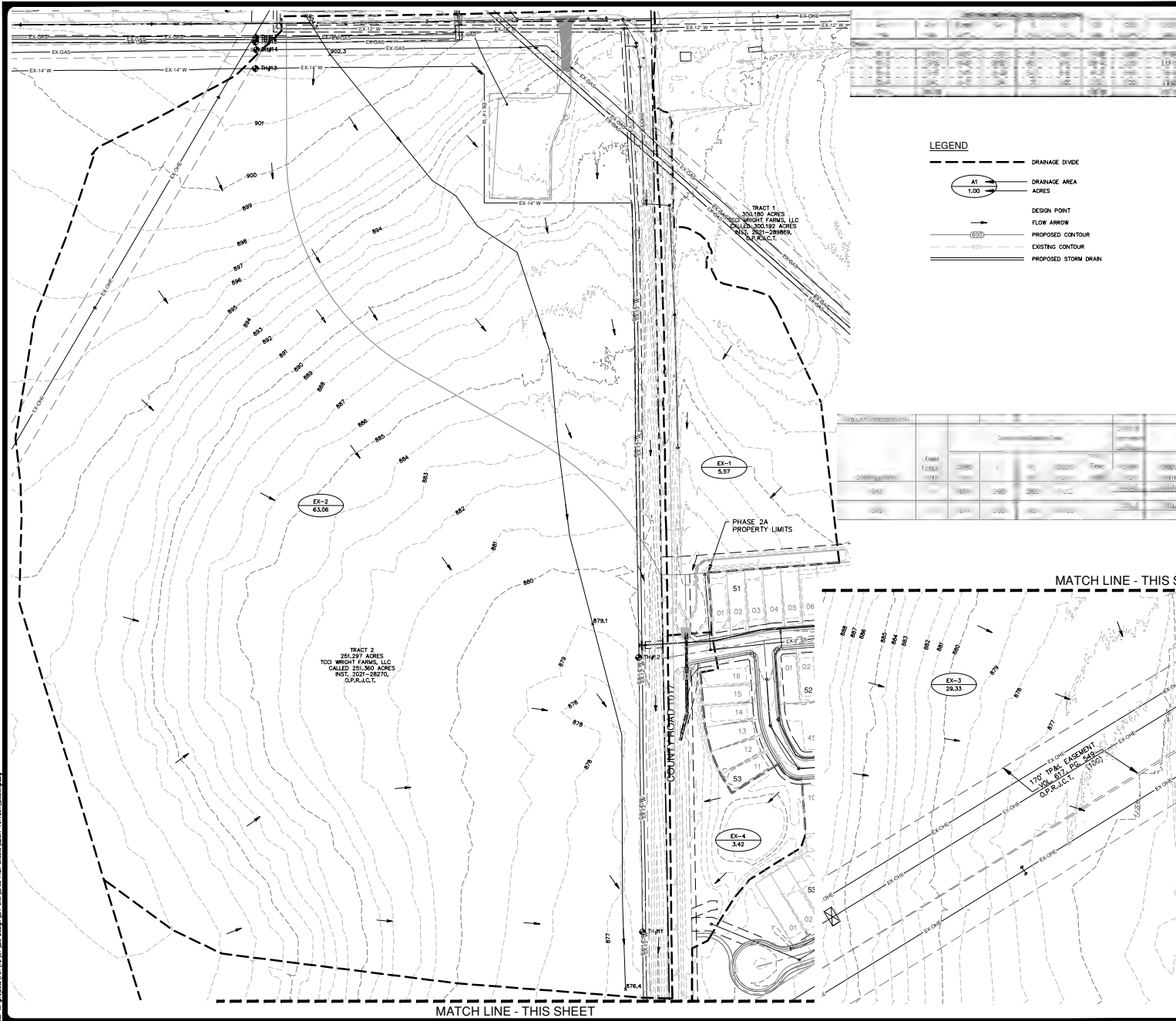
UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND SHALL BE RESPONSIBLE FOR REPAIRING ANY SUCH DAMAGE. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION.

LAT: N/A
 E: 7.17 - 7.17
 AT: E 7.17 - 7.17
 HE: E 7.17 - 7.17
 HEET: 33

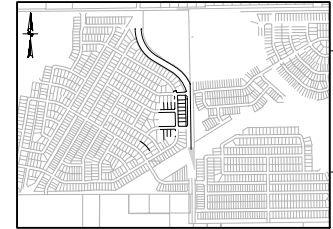
FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 GRADING PLAN

Date: June 22, 2024, 6:04am User: G. Conway
 W:\Projects\2024\24014 - Frontier - Phase 3A - Drainage\24014.dwg
 Plot: 24014.dwg, Plot Date: 6/22/2024, 6:04am



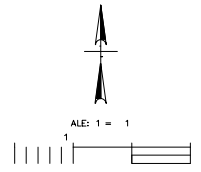
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---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

- LEGEND**
- DRAINAGE DIVIDE
 - AT 1.00 DRAINAGE AREA ACRES
 - FLOW ARROW
 - PROPOSED CONTOUR
 - EXISTING CONTOUR
 - PROPOSED STORM DRAIN



BENCHMARKS
 N T-T - ALE

CP #1	CP #2	CP #3	CP #4	CP #5
N 7.1	N 11.4	N 7.1	N 7.1	N 7.1
E 7.3	E 14.1	E 14.1	E 14.1	E 4.1
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 4.1



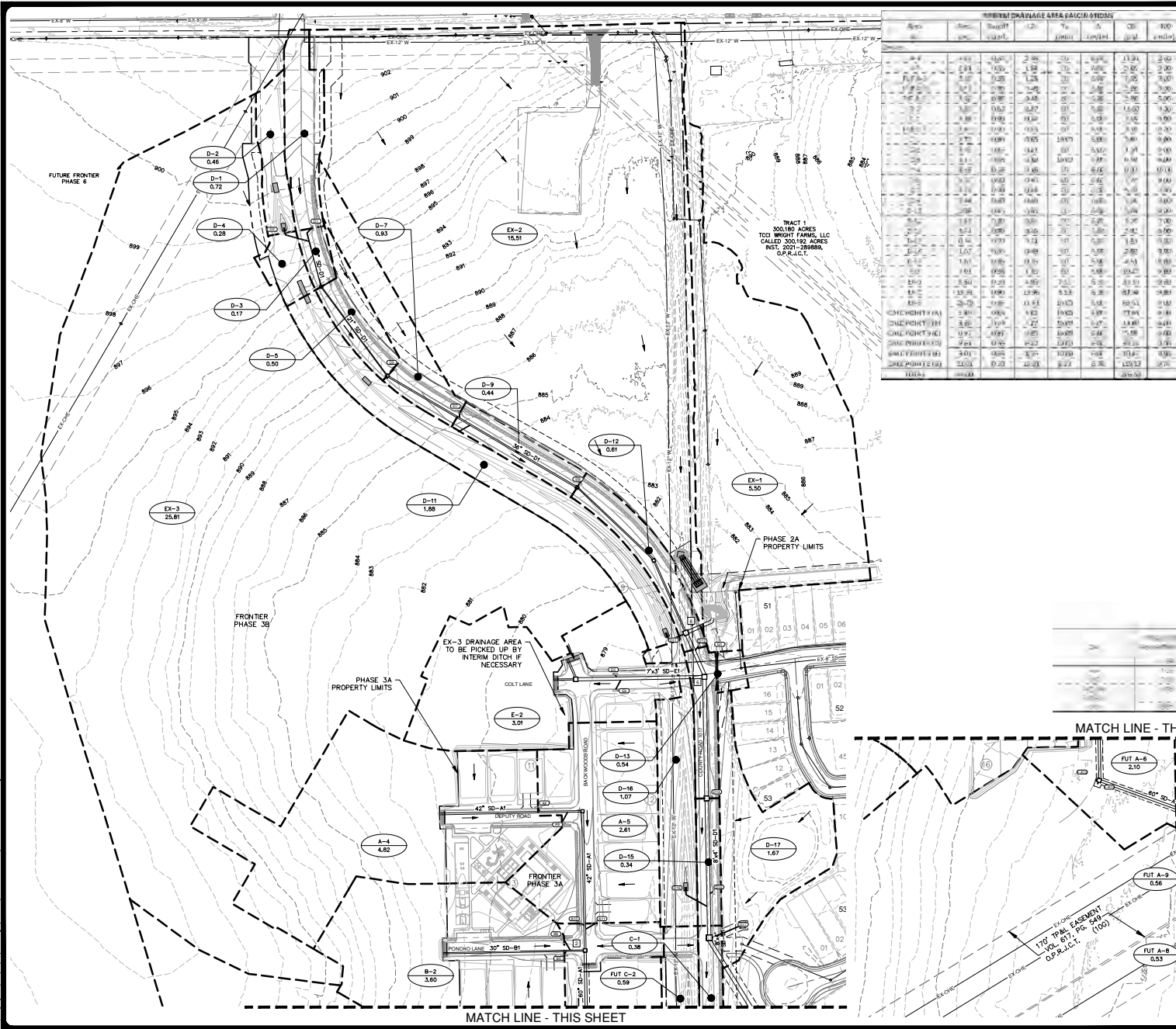
Level	Station	Height	Remarks
BM	1	7.1	BM
BM	2	11.4	BM
BM	3	7.1	BM
BM	4	7.1	BM
BM	5	7.1	BM

FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 EXISTING DRAINAGE AREA MAP

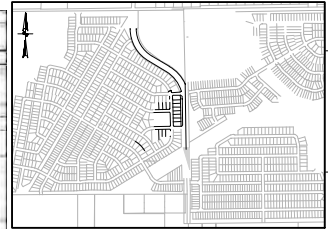
LAT N	N/A
N	7.17 - 7
E	EM EL
E I	N L
HE KE	A L
HEET	53

REVIEW SET - NOT FOR CONSTRUCTION

Date: June 22, 2023, 0:00am User: G. Conway
 W:\Projects\2023\230610 - Frontier Phase 3A.dwg
 W:\Projects\2023\230610 - Frontier Phase 3A.dwg
 W:\Projects\2023\230610 - Frontier Phase 3A.dwg

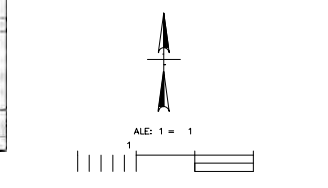


Basin	Area		Slope	C	F ₁	F ₂	F ₃	F ₄	F ₅	F ₆	F ₇	F ₈	F ₉	F ₁₀	F ₁₁	F ₁₂	F ₁₃	F ₁₄	F ₁₅	F ₁₆	F ₁₇	F ₁₈	F ₁₉	F ₂₀
	Impervious	Permeable																						
D-1	1.72	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-2	0.46	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-3	0.17	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-4	0.28	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-5	0.50	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-6	0.72	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-7	0.93	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-8	1.17	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-9	1.44	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-10	1.72	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-11	1.99	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-12	2.27	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-13	2.55	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-14	2.83	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-15	3.11	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-16	3.39	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
D-17	3.67	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
EX-1	15.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
EX-2	15.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
EX-3	25.81	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01



BENCHMARKS
 N-T-T - ALE

CP #1	CP #2	CP #3	CP #4	CP #5
N 7 11	NAL	N 7 11	N 7 11	N 7 11
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 4.1



LEGEND

- JANA E M E
- JANA E A-EA
- A E
- E I N I N T
- F L W A L L W
- E N T
- E X T N I N T
- E T M A N

MATCH LINE - THIS SHEET

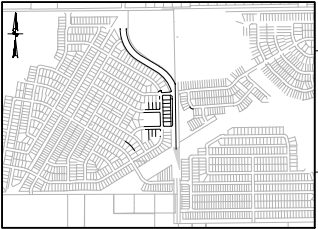
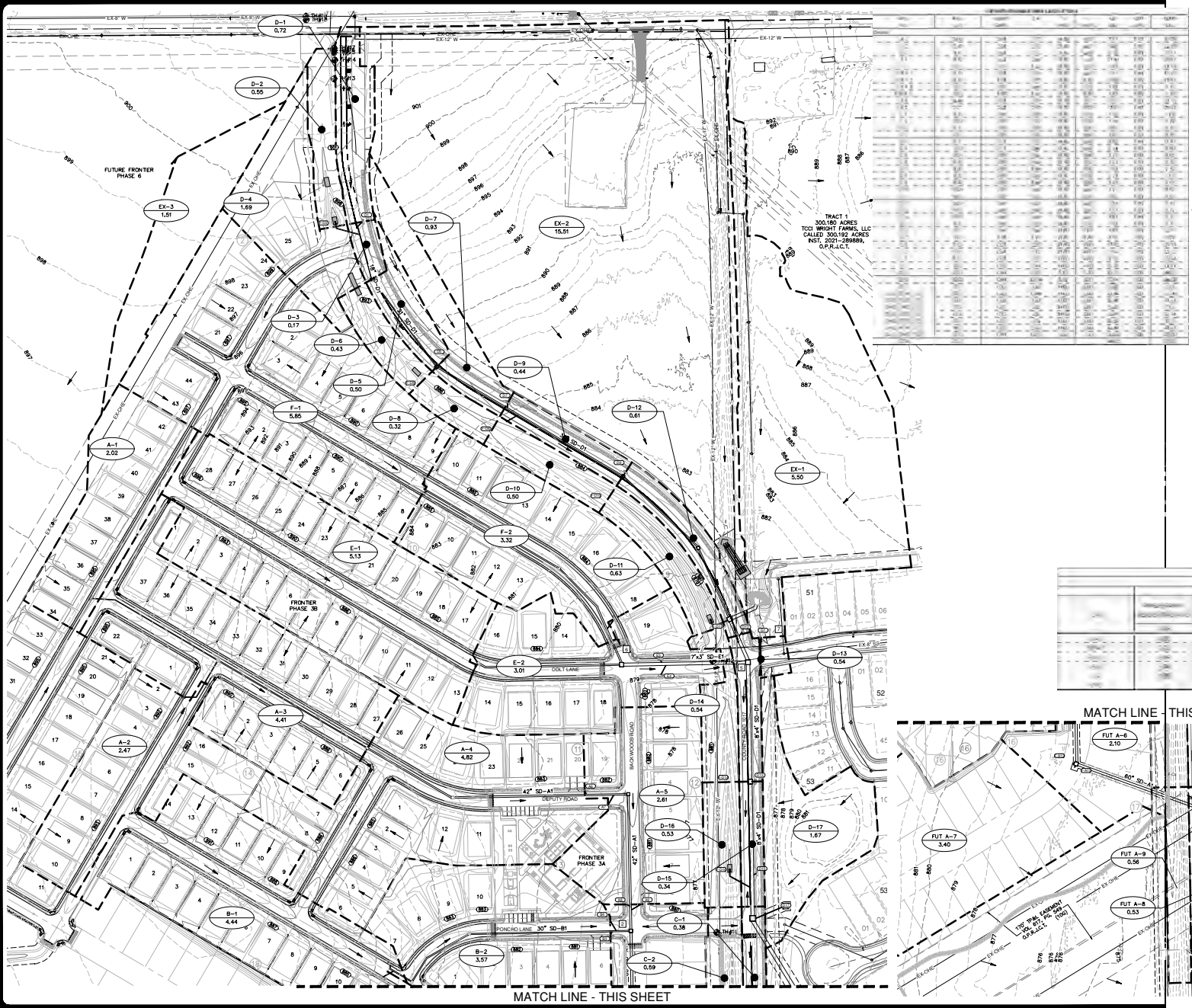
Basin	Area	Notes
RIT A-6	2.10	
RIT A-9	0.56	
RIT A-8	0.53	

FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 INTERIM DRAINAGE AREA MAP

LAT N: N/A
 N: 7.17 - 7
 ATE: E BM E L
 E I N E: L
 HE KE: A L A N N L
 HEET: 54

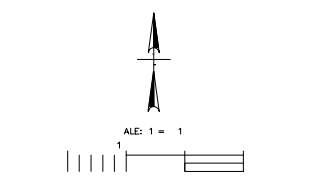
REVIEW SET - NOT FOR CONSTRUCTION

Date: 06/27/2024, 0:00am User: G. Conway
 Plot: 1:10000.000 Plot Size: 11.000 x 17.000
 Plot Area: 187.000 sq. ft. Plot Scale: 1" = 100.000'



BENCHMARKS
 N T-T - ALE

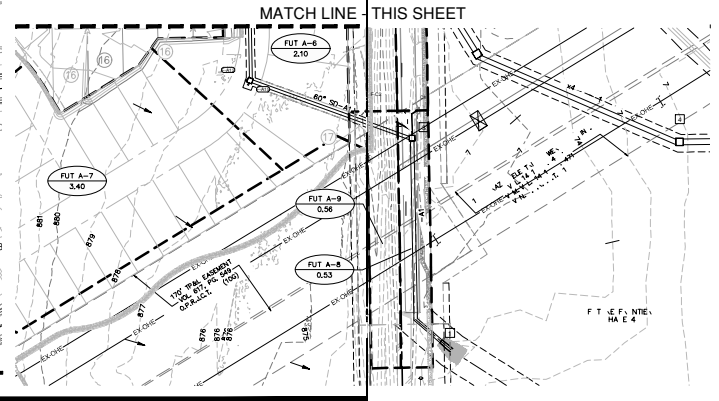
CP #1	CP #2	CP #3	CP #4	CP #5
H 7 11	H 7 11	H 7 11	H 7 11	H 7 11
N 7 11	N 7 11	N 7 11	N 7 11	N 7 11
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 1.7	ELEV. 4.1



LEGEND

--- (dashed line)	JANA E I M E
--- (dashed line with arrows)	JANA E A-EA
--- (dashed line with arrows)	A I E
--- (dashed line with arrows)	E I N I N T
--- (dashed line with arrows)	F L W A L L W
--- (dashed line with arrows)	E N T
--- (dashed line with arrows)	E X T N I N T
--- (dashed line with arrows)	E T M J A N

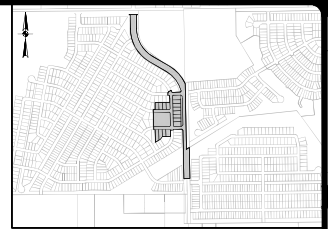
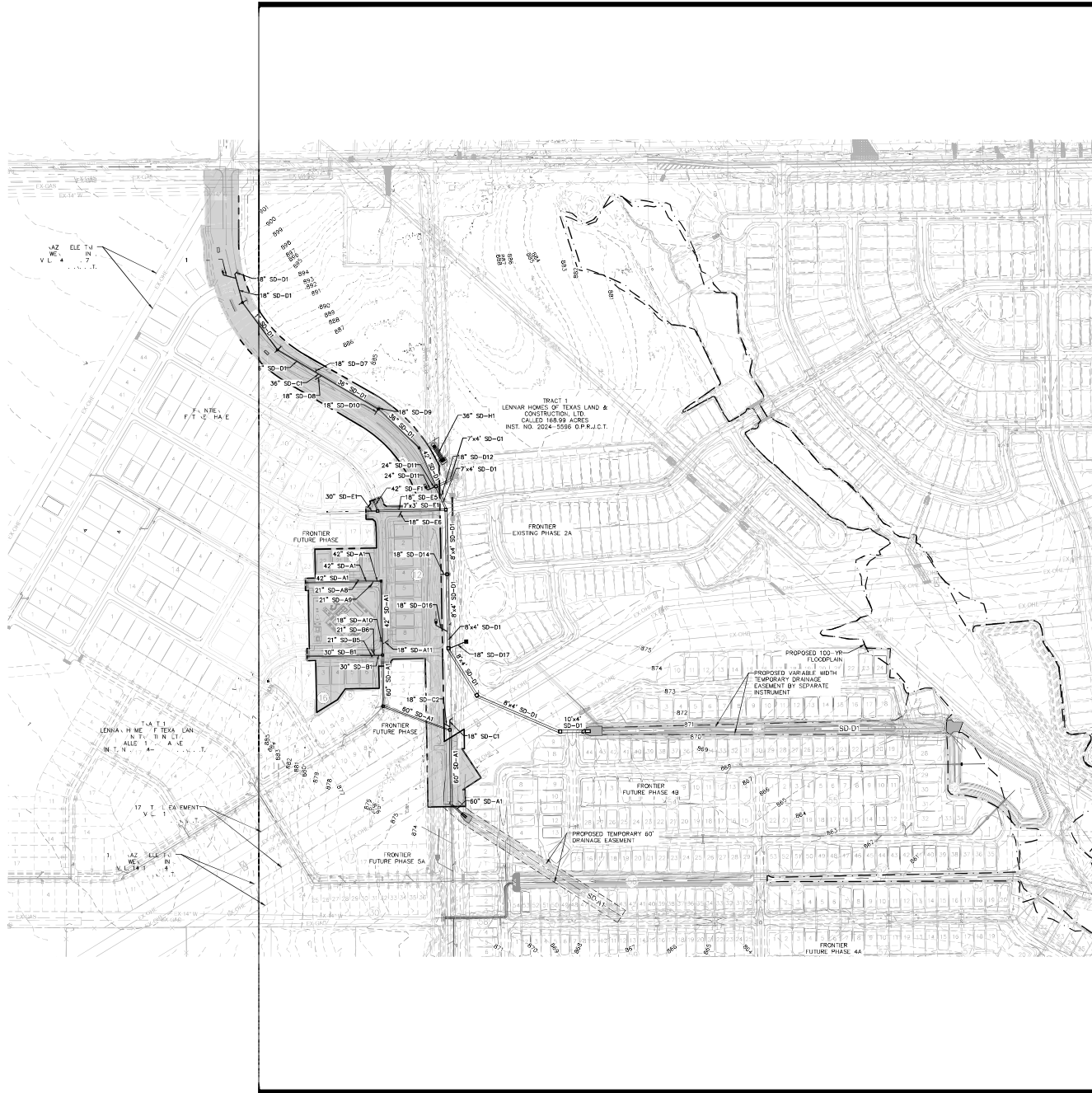
NO.	DESCRIPTION	DATE	BY	CHKD.



FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 DRAINAGE AREA MAP - POST DEVELOPMENT

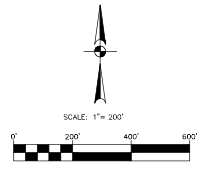
LAT N	N/A
ATE	7.17 - 7
E I N I N T	E I M E I
E I N I N T	L
H E K E	A L A N N L
HEET	55

REVIEW SET - NOT FOR CONSTRUCTION



BENCHMARKS
NOT TO SCALE

CP #1	CP #2	CP #3	CP #4	CP #5
HUB #7 18 N 638802.282 E 228807.196 LEV. 876.100	HUB #6 18 N 638252.460 E 228717.800 LEV. 876.570	HUB #7 17 N 638474.008 E 229451.595 LEV. 866.970	HUB #7 18 N 638428.582 E 229442.319 LEV. 867.860	HUB #7 18 N 638285.285 E 229608.022 LEV. 884.200



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

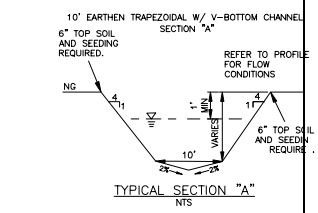
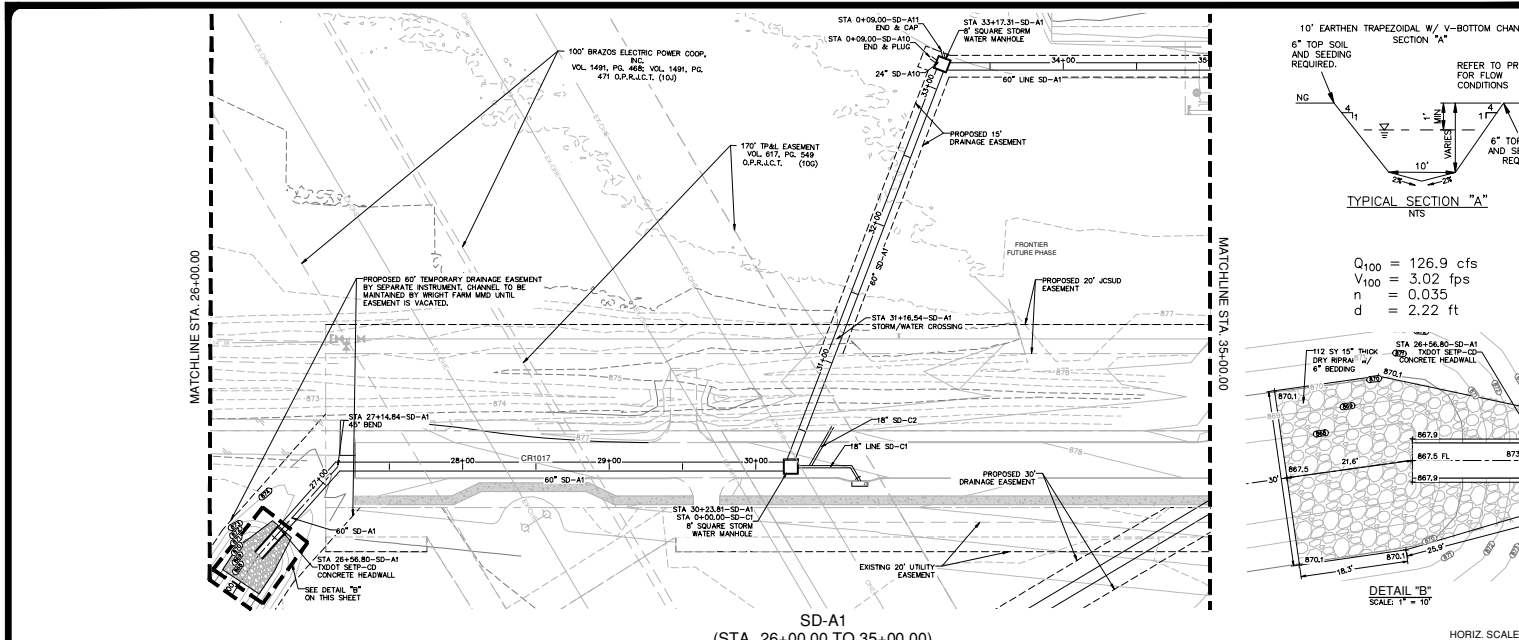
THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL 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.

NO.	REVISION	DATE

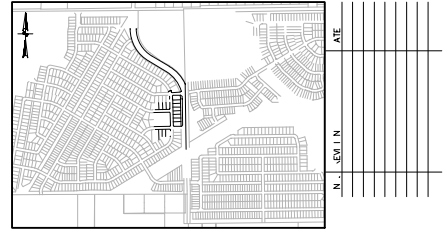
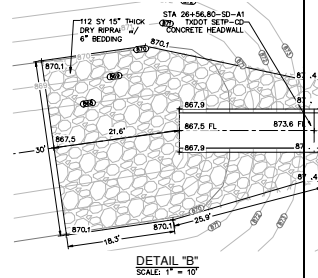
PAPE - DAWSON
PAPE & DAWSON ENGINEERS, P.C.
1000 WEST WILSON BOULEVARD, SUITE 300, FORT WORTH, TEXAS 76104
TELEPHONE: 817.335.1111
FAX: 817.335.1112
WWW.PAPE-DAWSON.COM

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM DRAIN OVERALL LAYOUT

PLAT NO.	N/A
JOB NO.	70172-07
DATE	DECEMBER 2023
DESIGNER	CL
CHECKED BY	DR. BRAUN, M.A.
SHEET	58

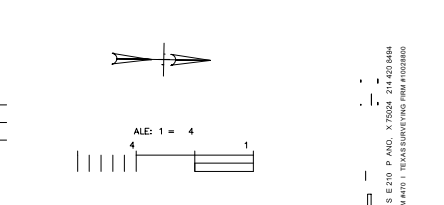


$Q_{100} = 126.9$ cfs
 $V_{100} = 3.02$ fps
 $n = 0.035$
 $d = 2.22$ ft



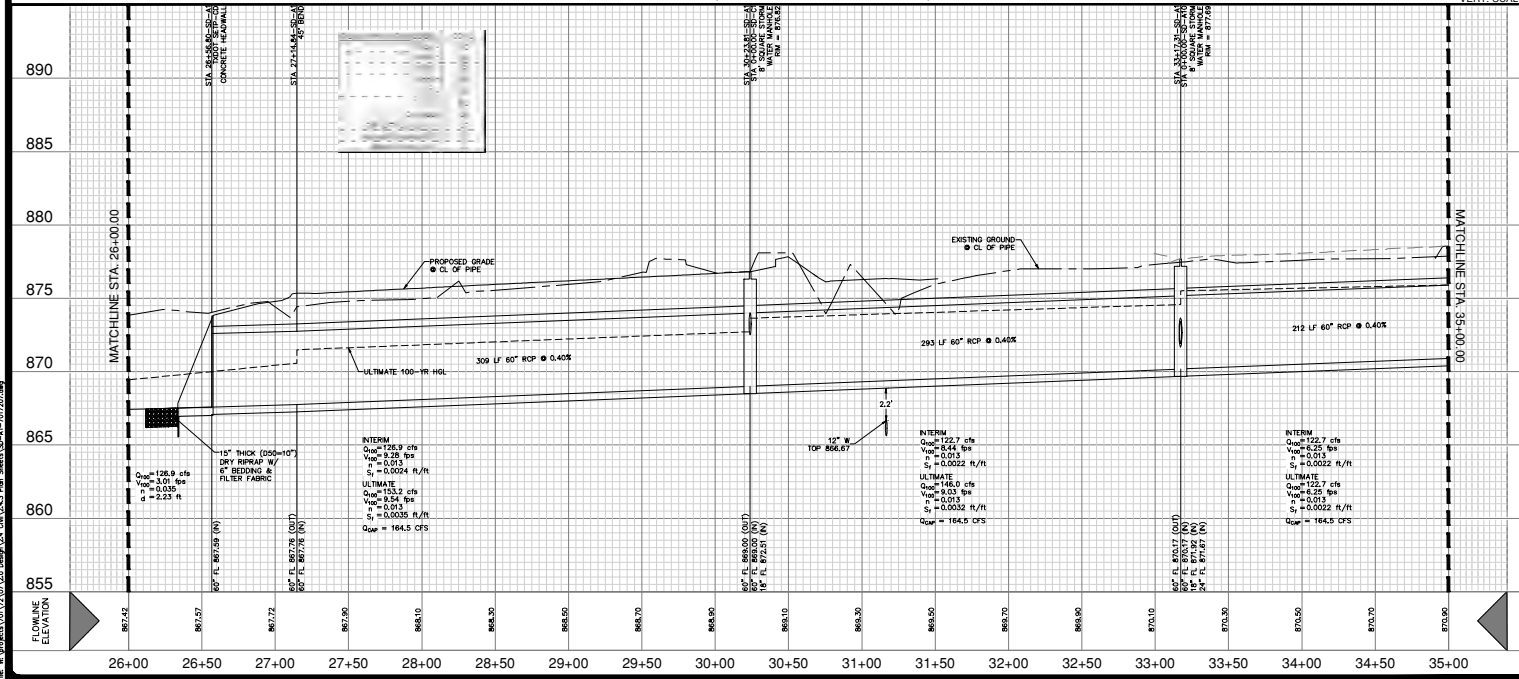
BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
N 7 1/2	N 7 1/2	N 7 1/2	N 7 1/2	N 7 1/2
BE 11.4	BE 11.4	BE 11.4	BE 11.4	BE 11.4
ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7



DRAIN LEGEND

- E WATER LINE
- E ATE VALVE
- E FILE HY-UNT A EM LY
- E ANTYLY EME. LINE
- E ANTYLY EME. MANH LE
- E T M JAN
- EX TN WATER LINE
- EX TN ATE VALVE
- EX TN FILE HY-UNT
- EX TN ANTYLY EME. LINE
- EX TN ANTYLY EME. MANH LE
- EX TN T M JAN



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

TRENCH EXCAVATION SAFETY PROTECTION

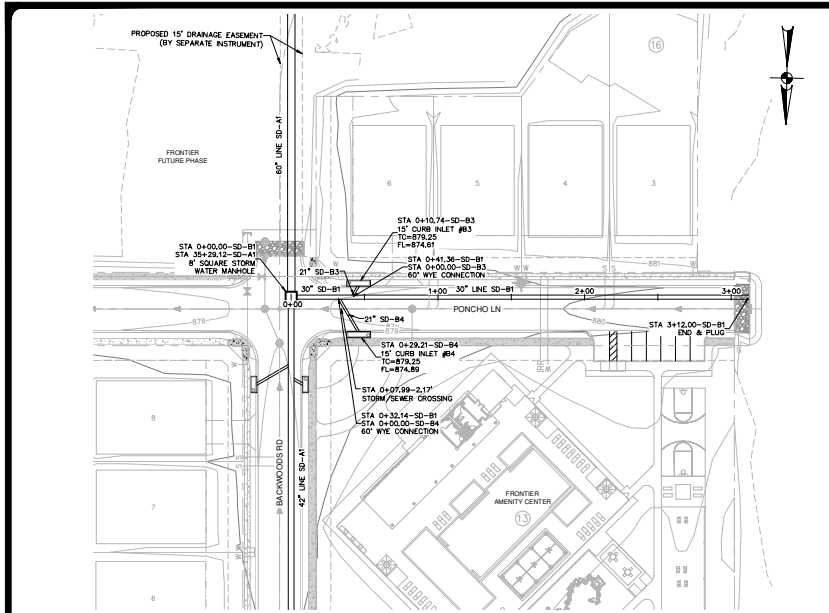
NTA T A N / NTA T I N E N ENTY ETANE EM LVEE
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 HALL EWE THE E LAN AN ANY AVA LA E E TEN AL R N M AN
 AN THE ANTI ATE N TALLAN THE WITH THE C T W A SA IN
 \ E T M LEMENT NTA T \ TEN H EX AVAT N AFEY \ TE TN
 Y T M JAN AN / E E F THE E T E E E N
 THE NTA T MENT \ THE NTA T M LEMENT N F THE
 TON H EX AVAT N AFEY \ TE TN THAT NLY WIS A A N M U
 TON H EX AVAT N AFEY \ TE TN THAT NLY WIS A A N M U
 AN / TON AN / N E N ENTY ETANE EM LVEE
 AN / TON AN / N E N ENTY ETANE EM LVEE
 WITH HALL AN A NENH THE E N E AN A TIVTE
 IN M AL W JN IN AN A N TON H EX AVAT N

UTILITY NOTE

THE EX TN TUTE H W N THE E LAN W E M L E F M W A J
 AN A E B W N E N H W THE EX AVAT N E M L E A N I F THE TUTE
 N F M AN IN THE LAN \ THE NTA T M LEMENT N TUTE A TUTE A TUTE
 E E E E N H W N E N TUTE A TUTE A TUTE A TUTE A TUTE A TUTE
 W E P Y THE EX T L L AN AN F ALL EX TN TUTE AN E TUNE F THESE
 A E AN MENT WITH THE E F A TUTE \ THE NTA T M LEMENT N
 THE N E N E M LY ATE W N TUTE WITH EX TN A E I E E .

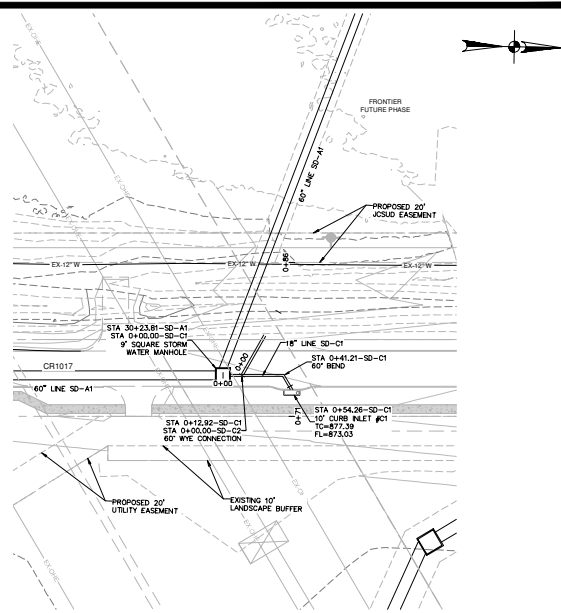
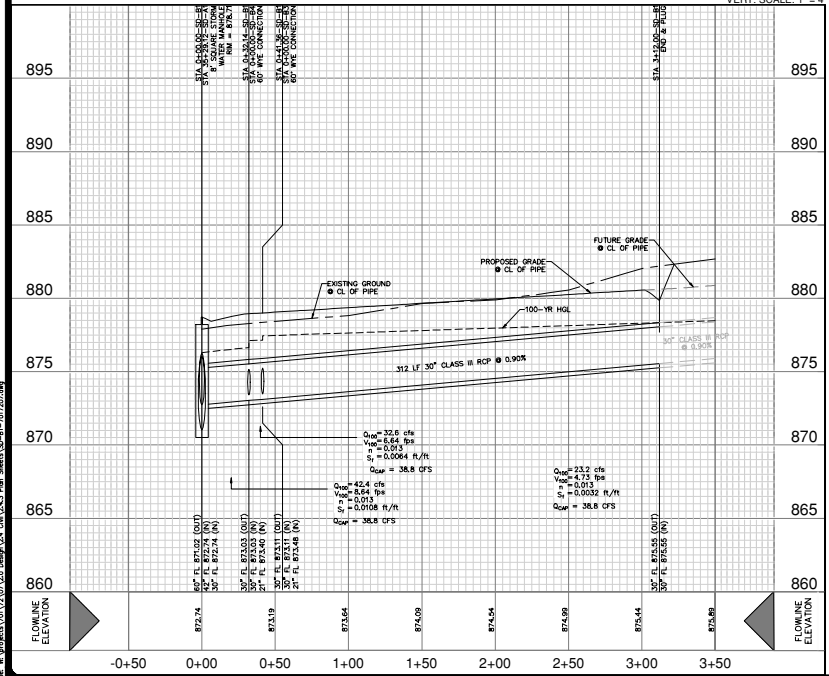
FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 STORM PLAN & PROFILE - LINE-SD-A1
 STA 26+00.00 TO 35+00.00

Date: Tue, 22, 2022, 6:10am User: D: Corvey
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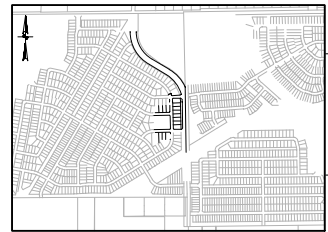
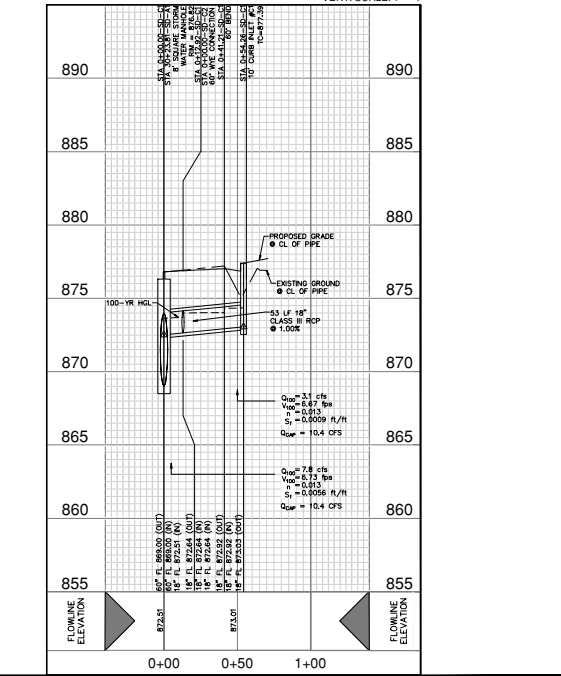
SD-B1
(STA. -0+50.00 TO END)

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



SD-C1
(STA. -0+50.00 TO END)

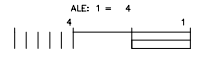
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'



KEY MAP

BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
H 7' 11"	H 7' 11"	H 7' 11"	H 7' 11"	H 7' 11"
N 14' 1.7"	N 14' 1.7"	N 14' 1.7"	N 14' 1.7"	N 14' 1.7"
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 7.3	ELEV. 4.1



DRAIN LEGEND

[Symbol]	E WATER LINE
[Symbol]	E ATE VALVE
[Symbol]	E FLE HY JUNT A EM LY
[Symbol]	E ANTALY EWE LINE
[Symbol]	E ANTALY EWE MASH LE
[Symbol]	E T M JAN
[Symbol]	EX TN WATER LINE
[Symbol]	EX TN ATE VALVE
[Symbol]	EX TN FLE HY JUNT
[Symbol]	EX TN ANTALY EWE LINE
[Symbol]	EX TN ANTALY EWE MASH LE
[Symbol]	EX TN T M JAN

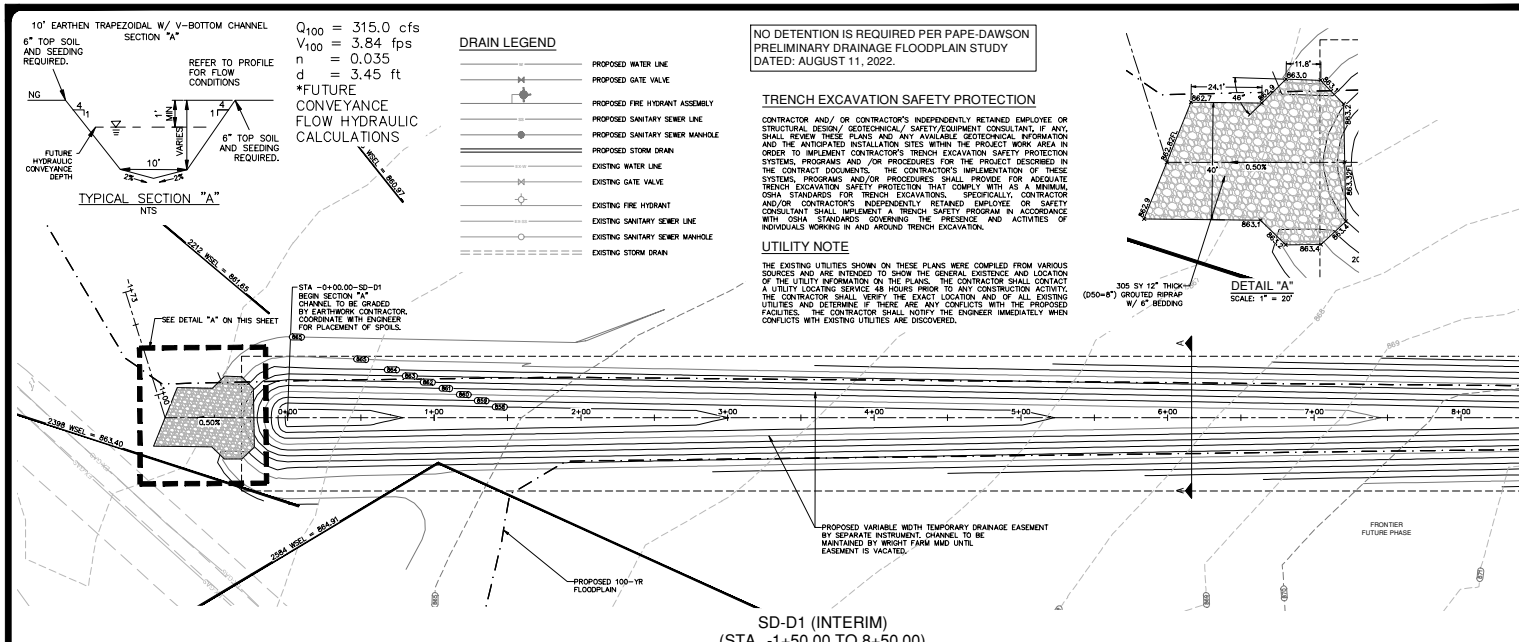
NO DETENTION IS REQUIRED PER PAPE-DAWSON PRELIMINARY DRAINAGE FLOODPLAIN STUDY DATED: AUGUST 11, 2022.

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM SEWER PLAN & PROFILE - LINE SD-B1 & SD-C1
STA. -0+50.00 TO END

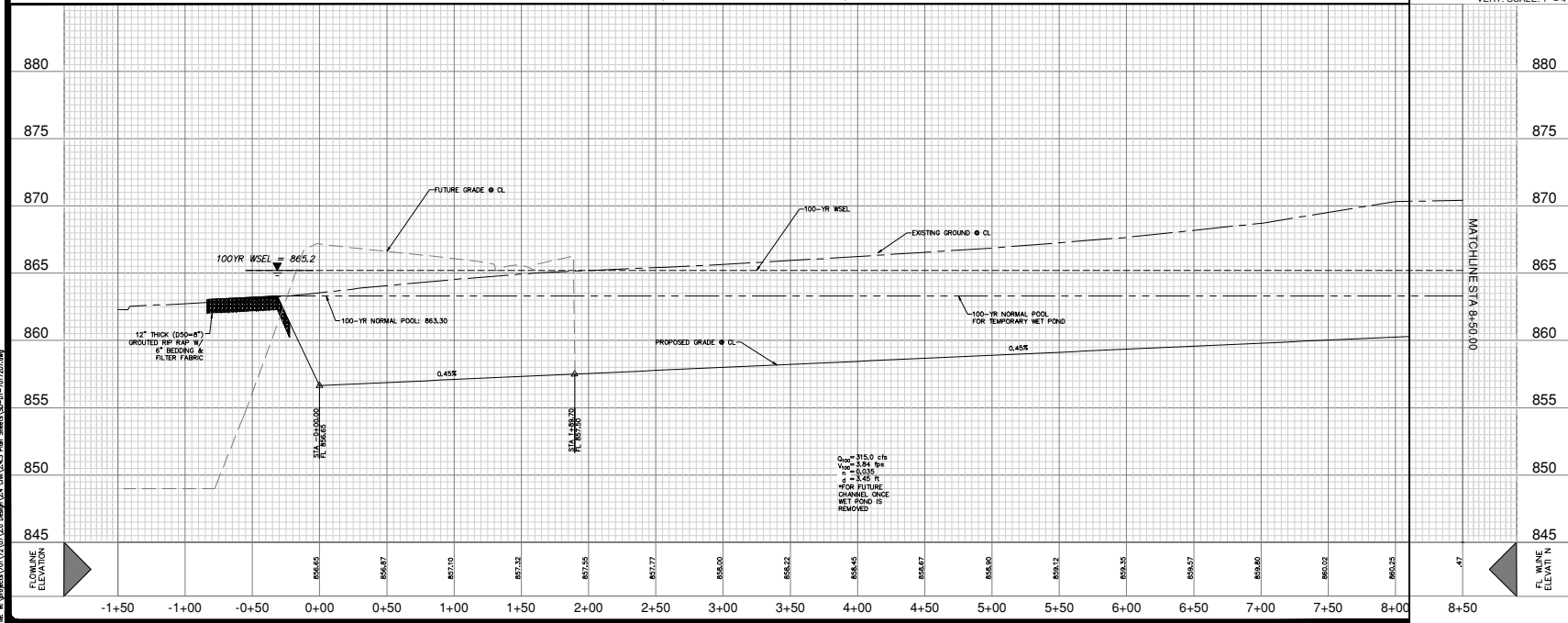
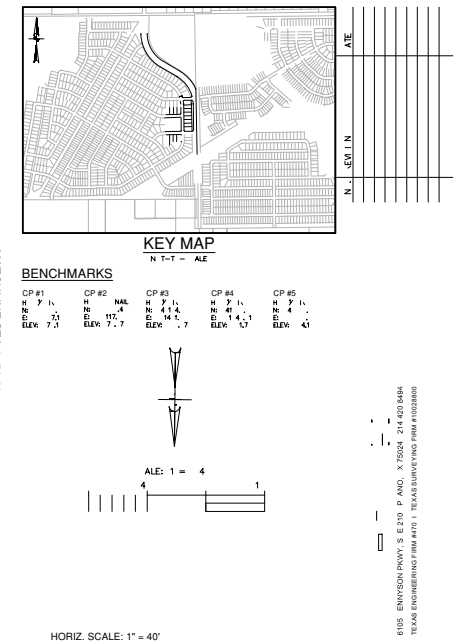
UTILITY NOTE

THE EX TN TITUTE H W N N THE E LAN WESE M LE F M W A J E E I N E
AN A E B W N E H W THE D E A L S O T E E M L A S N F H C T U L Y
N F W A T N N THE LAN THE AN T I N H A L L N T A T A T U L Y L A T N
E I E E A H A N Y N Y T I N A T U R E THE AN T A F H A L L
V E R I F Y THE EX T I L A T I A N A N F A L L EX TN TITUTE AN E T E W N E F THESE
A E A N Y N F U I T W I T H THE C E F A L T U R E THE AN T A F H A L L N T R Y
THE N E E N E E W A T E R Y W H N N F U I T W I T H EX TN TITUTE A E I V E S E .

LAT N	N/A
N	7.17 - 7
E	EM E
ATE	E I N E
HE KE	A L JAN N EA
HEET	63



SD-D1 (INTERIM)
(STA. -1+50.00 TO 8+50.00)

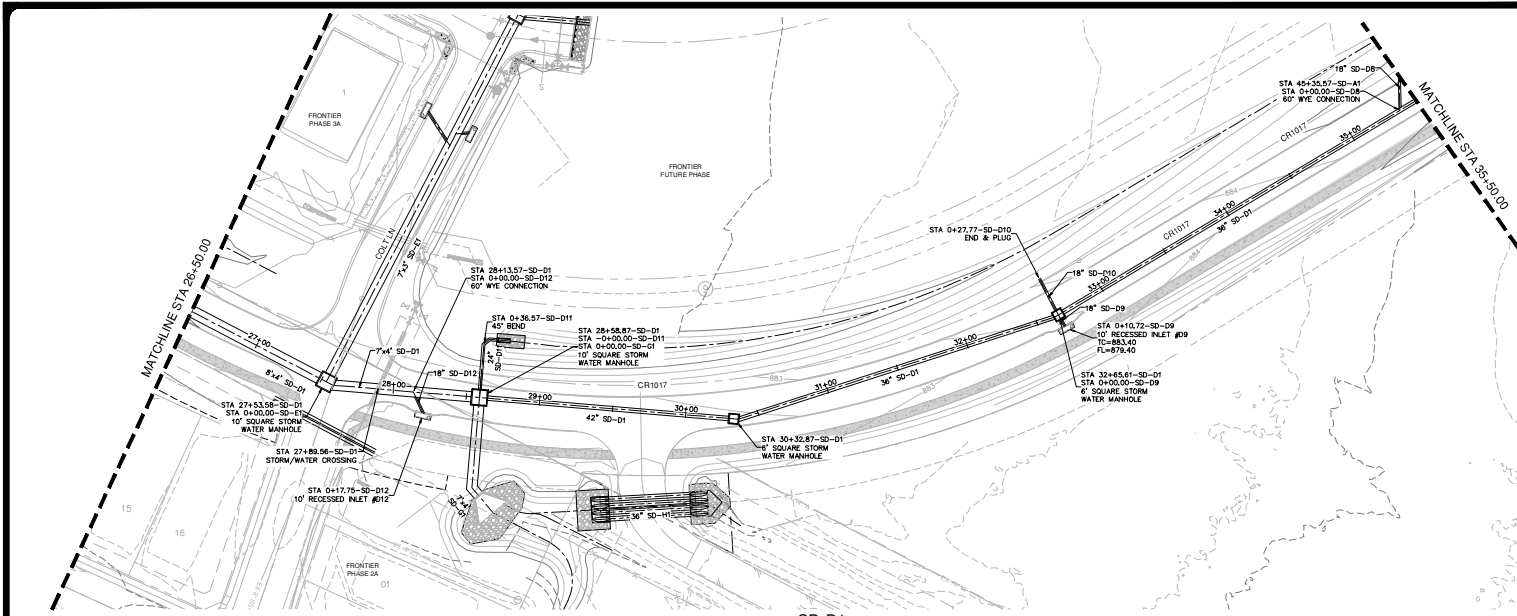


HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

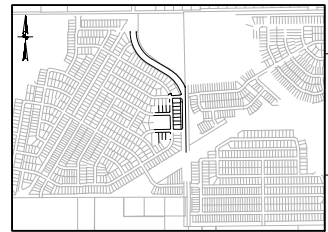
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Plot: W:\Projects\2023\SD-D1\SD-D1.dwg Plot Scale: 1" = 40' Plot Path: W:\Projects\2023\SD-D1\SD-D1.dwg

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM SEWER PLAN & PROFILE - LINE SD-D1
STA -1+50.00 TO 8+50.00

LAT N: N/A
N: 7.17 - 7
ATE: E BM 1
E I N: L
HE KE: AL, JAN, RA
HEET: 65



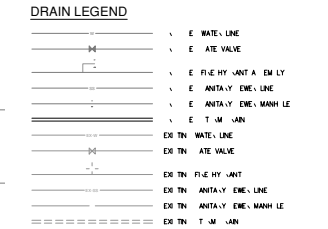
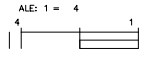
SD-D1
(STA. 26+50.00 TO 35+50.00)



KEY MAP
N-T-T-A-E

BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
H 7.1	H 11.4	H 7.1	H 7.1	H 7.1
BE 11.4	BE 11.4	BE 4.1	BE 4.1	BE 4.1
ELEV. 7.1	ELEV. 7.7	ELEV. 7	ELEV. 7	ELEV. 4.1



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

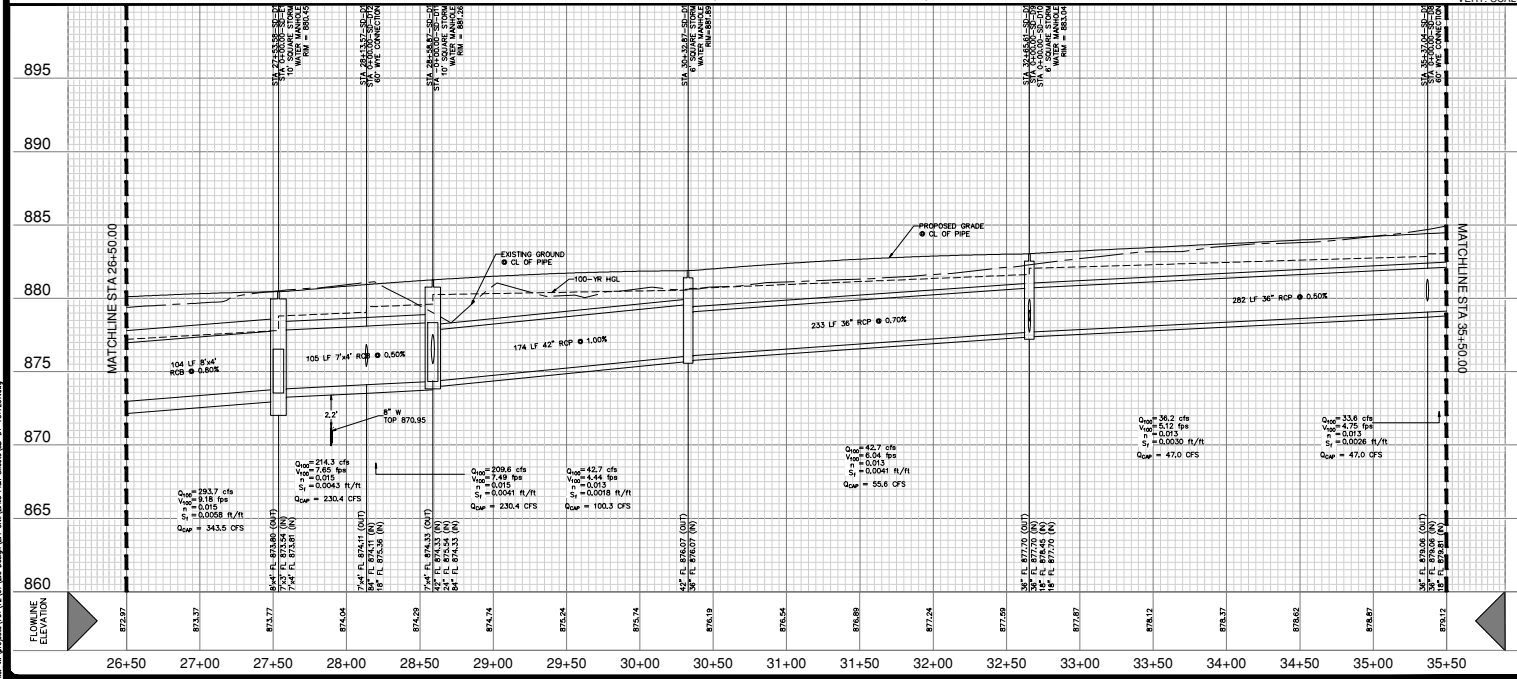
TRENCH EXCAVATION SAFETY PROTECTION

NTA T / AN / NT A T / N E N ENTY ETANE EM LVEE /
T / T A E / E T E W A LY A E T E / I M E N T / N T A T / I F ANY
HALL E W I D E T H E E L A N A N A N Y A V A L A L E E T E H A L I N F M A T I N
A N T H E A N T A L A T E N T A L A T I N T E W I T H I N T H E C T T W A A S A N
L E T M L E M E N T N T A T / T E N H E X A V A T I N A F E T Y A T E T I N
Y T O M A M A N A / E E F T H E V E T E E E N T H E N T A T A M L E M E N T A T I N F T H E E
Y T O M A M A N A N Y A T E T I N T H A T M A L L W I T H A A M M U
T O N H E X A V A T I N A F E T Y A T E T I N T H A T M A L L W I T H A A M M U
A N / N T A / T E N H E X A V A T I N I F P A L L Y A N T A
A N / N T A / I N E N E N T Y E T A N E M L V E E A N A F E T
W I T H H A L T A N A M E N T A F E T Y A M A N A A F E T
I N T H E M A L W A J N I N A N A N T O N H E X A V A T I N

UTILITY NOTE

THE EX TN T U T I L E H W N N T H E E L A N W E S E M I L E F M W A J
A N A S E N D E N T I N W T H E D E A L S O T H E A L A S N I F T H E T U T I L
I N F M A T I N I N T H E L A N T H E N T A T I N H A L L N T A T A T U T I L A T I N
E A S E E A H U T A N Y N T A T I N T U T I L T H E N T A T I N T R A
W E P T H E E X A T L A T A N A N A L E X T I N T U T I L A N E T E M E F I F T H E
A S A N Y M E T W I T H T H E C T F A L T I N T H E N T A T I N H A L L N T A T
I N E N E E I M M E D I A T E L Y W H E N I N F L T W I T H E X T I L T U T I L A E I V E S

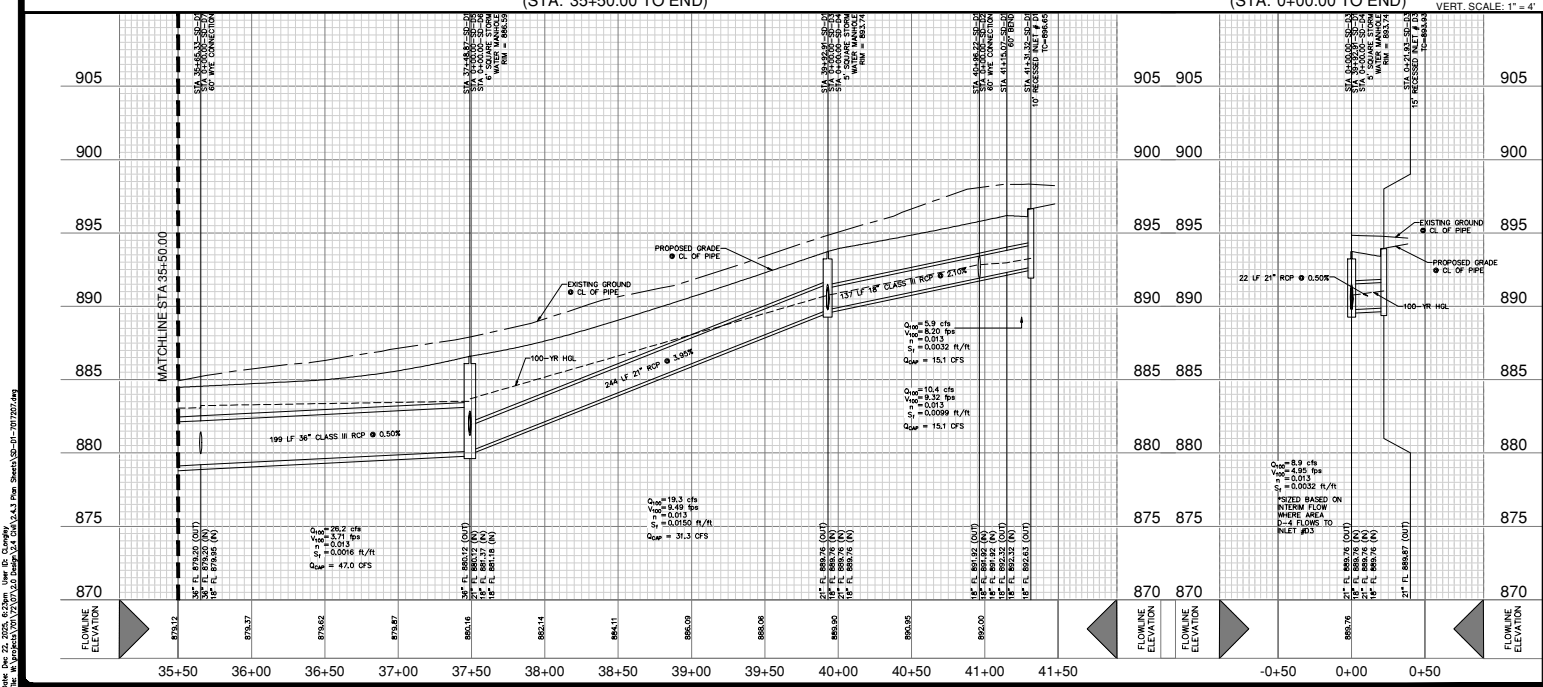
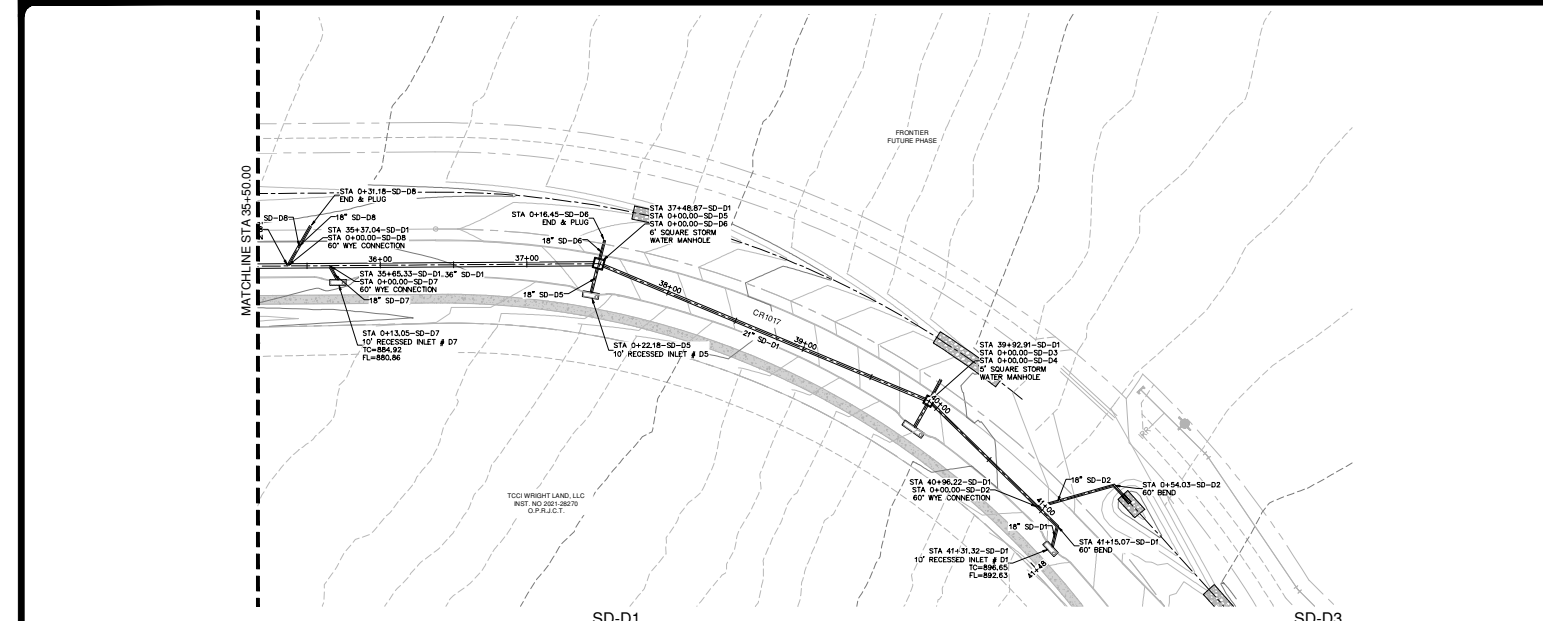
LAT	N/A
N	7.17 - 7
E	EM.E
A	E
E	L
E	AL
HEET	68



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

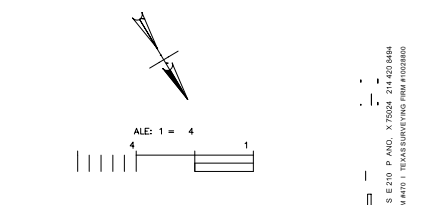
FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM SEWER PLAN & PROFILE - LINE SD-D1
STA 26+50.00 TO 35+50.00

DATE: 08-22-2024 02:29pm User: G. Conway
P:\Projects\2024\20240822\20240822_SDW_S3A.dwg Sheet: 06 of 10 (20240822.dwg)



BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
H 7 11	H 7 11	H 7 11	H 7 11	H 7 11
BE 11 4	BE 11 4	BE 11 4	BE 11 4	BE 11 4
ELEV. 7.3	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 4.1



DRAIN LEGEND

	WATER LINE
	WATER VALVE
	FIRE HYDRANT
	SANITARY SEWER LINE
	SANITARY SEWER MANHOLE
	STORM SEWER LINE
	STORM SEWER MANHOLE
	TRENCH WATER LINE
	TRENCH WATER VALVE
	TRENCH FIRE HYDRANT
	TRENCH SANITARY SEWER LINE
	TRENCH SANITARY SEWER MANHOLE
	TRENCH STORM SEWER LINE

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

TRENCH EXCAVATION SAFETY PROTECTION

NTA T A N / N T A T T I N E N E N T Y E T A N E M L Y E E T T J A E E I N / E T E W A L Y A E T Y E I M E N T N U N T I F A N Y H A L L E V E W T H E E L A N A N A N Y A V A L A L E E T E H N A L R E M A T N A N T H E A N T I A T E I N T A L L A N T H E W I T H I N T H E C T T W A S A I N S E L T I M L E M E N T N T A T T T E N H E X A V A T I N A F E T Y T E T I N Y T O M S A M A N A E E F T H E C T T E J E I N T H E N T A T I M E N T T H E N T A T I M L E M E N T I N F T H E Y T O M S A M A N A N Y T E T I N T H A T I M L Y W I S A A N I M A T I O N T A N A F T E N H E X A V A T I N E I P P A L L Y N T A T A N / N T A T A N E N E N T Y E T A N E M L Y E E A F E T Y W I T H H A L T A N A K E N I N T H E E N A N A N F I N T H E A L W J O N I N A N A N T I O N H E X A V A T I N

UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THESE MAPS ARE BASED ON THE MOST RECENT RECORD DRAWINGS AVAILABLE TO THE ENGINEER. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE EXISTING UTILITIES AND HAS FOUND THEM TO BE IN ACCORDANCE WITH THE RECORD DRAWINGS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE LOCATION, DEPTH, OR CHARACTERISTICS OF UTILITIES NOT SHOWN ON THESE MAPS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE LOCATION, DEPTH, OR CHARACTERISTICS OF UTILITIES NOT SHOWN ON THESE MAPS.

LAT	N/A
N	7.17 - 7
E	EM.E
DATE	8/11/2022
HEET	69

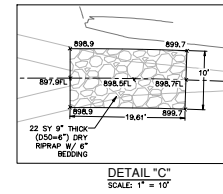
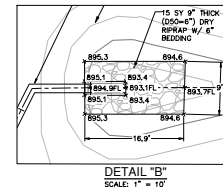
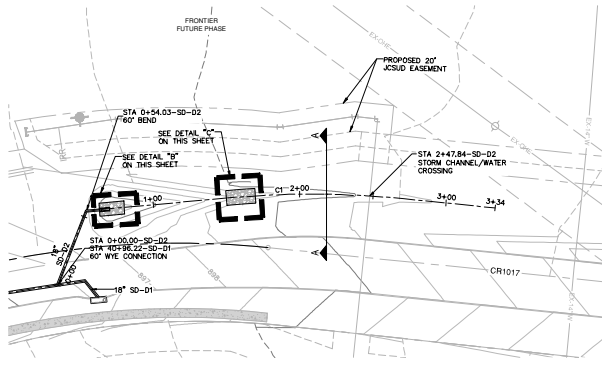
FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM SEWER PLAN & PROFILE - LINE SD-D1
STA 35+50.00 TO END

DATE: 08/11/2022 02:20:00 USER: G. COMPTON
C:\WORK\2022\08\01\02\03\04\05\06\07\08\09\10\11\12\13\14\15\16\17\18\19\20\21\22\23\24\25\26\27\28\29\30\31\32\33\34\35\36\37\38\39\40\41\42\43\44\45\46\47\48\49\50\51\52\53\54\55\56\57\58\59\60\61\62\63\64\65\66\67\68\69\70\71\72\73\74\75\76\77\78\79\80\81\82\83\84\85\86\87\88\89\90\91\92\93\94\95\96\97\98\99\100\101\102\103\104\105\106\107\108\109\110\111\112\113\114\115\116\117\118\119\120\121\122\123\124\125\126\127\128\129\130\131\132\133\134\135\136\137\138\139\140\141\142\143\144\145\146\147\148\149\150\151\152\153\154\155\156\157\158\159\160\161\162\163\164\165\166\167\168\169\170\171\172\173\174\175\176\177\178\179\180\181\182\183\184\185\186\187\188\189\190\191\192\193\194\195\196\197\198\199\200\201\202\203\204\205\206\207\208\209\210\211\212\213\214\215\216\217\218\219\220\221\222\223\224\225\226\227\228\229\230\231\232\233\234\235\236\237\238\239\240\241\242\243\244\245\246\247\248\249\250\251\252\253\254\255\256\257\258\259\260\261\262\263\264\265\266\267\268\269\270\271\272\273\274\275\276\277\278\279\280\281\282\283\284\285\286\287\288\289\290\291\292\293\294\295\296\297\298\299\300\301\302\303\304\305\306\307\308\309\310\311\312\313\314\315\316\317\318\319\320\321\322\323\324\325\326\327\328\329\330\331\332\333\334\335\336\337\338\339\340\341\342\343\344\345\346\347\348\349\350\351\352\353\354\355\356\357\358\359\360\361\362\363\364\365\366\367\368\369\370\371\372\373\374\375\376\377\378\379\380\381\382\383\384\385\386\387\388\389\390\391\392\393\394\395\396\397\398\399\400\401\402\403\404\405\406\407\408\409\410\411\412\413\414\415\416\417\418\419\420\421\422\423\424\425\426\427\428\429\430\431\432\433\434\435\436\437\438\439\440\441\442\443\444\445\446\447\448\449\450\451\452\453\454\455\456\457\458\459\460\461\462\463\464\465\466\467\468\469\470\471\472\473\474\475\476\477\478\479\480\481\482\483\484\485\486\487\488\489\490\491\492\493\494\495\496\497\498\499\500\501\502\503\504\505\506\507\508\509\510\511\512\513\514\515\516\517\518\519\520\521\522\523\524\525\526\527\528\529\530\531\532\533\534\535\536\537\538\539\540\541\542\543\544\545\546\547\548\549\550\551\552\553\554\555\556\557\558\559\560\561\562\563\564\565\566\567\568\569\570\571\572\573\574\575\576\577\578\579\580\581\582\583\584\585\586\587\588\589\590\591\592\593\594\595\596\597\598\599\600\601\602\603\604\605\606\607\608\609\610\611\612\613\614\615\616\617\618\619\620\621\622\623\624\625\626\627\628\629\630\631\632\633\634\635\636\637\638\639\640\641\642\643\644\645\646\647\648\649\650\651\652\653\654\655\656\657\658\659\660\661\662\663\664\665\666\667\668\669\670\671\672\673\674\675\676\677\678\679\680\681\682\683\684\685\686\687\688\689\690\691\692\693\694\695\696\697\698\699\700\701\702\703\704\705\706\707\708\709\710\711\712\713\714\715\716\717\718\719\720\721\722\723\724\725\726\727\728\729\730\731\732\733\734\735\736\737\738\739\740\741\742\743\744\745\746\747\748\749\750\751\752\753\754\755\756\757\758\759\760\761\762\763\764\765\766\767\768\769\770\771\772\773\774\775\776\777\778\779\780\781\782\783\784\785\786\787\788\789\790\791\792\793\794\795\796\797\798\799\800\801\802\803\804\805\806\807\808\809\810\811\812\813\814\815\816\817\818\819\820\821\822\823\824\825\826\827\828\829\830\831\832\833\834\835\836\837\838\839\840\841\842\843\844\845\846\847\848\849\850\851\852\853\854\855\856\857\858\859\860\861\862\863\864\865\866\867\868\869\870\871\872\873\874\875\876\877\878\879\880\881\882\883\884\885\886\887\888\889\890\891\892\893\894\895\896\897\898\899\900\901\902\903\904\905\906\907\908\909\910\911\912\913\914\915\916\917\918\919\920\921\922\923\924\925\926\927\928\929\930\931\932\933\934\935\936\937\938\939\940\941\942\943\944\945\946\947\948\949\950\951\952\953\954\955\956\957\958\959\960\961\962\963\964\965\966\967\968\969\970\971\972\973\974\975\976\977\978\979\980\981\982\983\984\985\986\987\988\989\990\991\992\993\994\995\996\997\998\999\1000

INLET CONTROL CALCULATIONS:

HAN	1.27 FT
D	1.93 FT
H _L	1.22 FT
K	0.01 (Circular Culvert, Square edge w/ Headwall)
Q	4.50 CFS
A	1.77 FT ²
M	2.02 (Circular Culvert, Square edge w/ Headwall)
S	0.02 F/FT

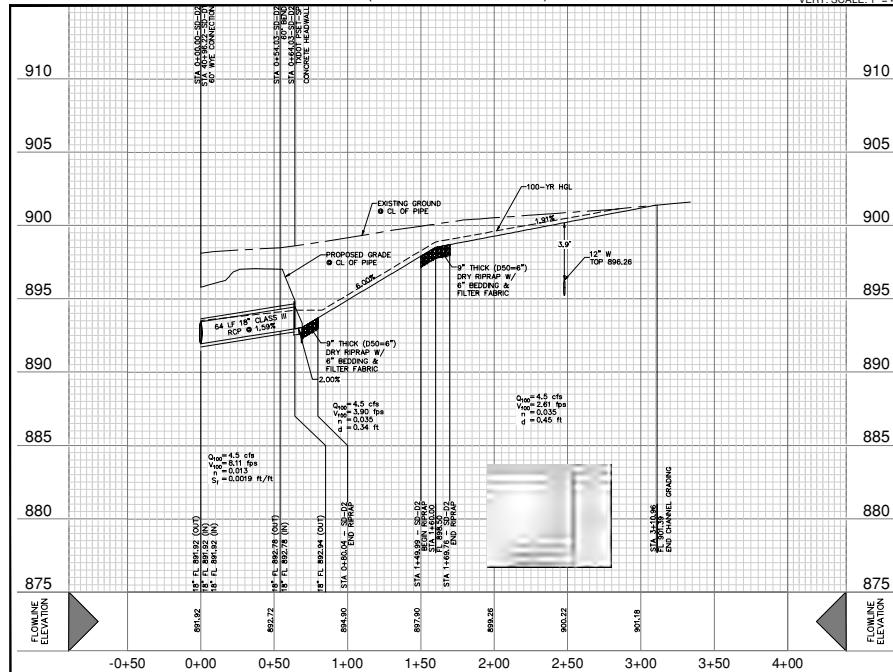
Q	4.50 CFS
T	1.40 FT
B	32.20 FT ² /S
A	0.90 FT ²
Thota	3.31 RND
D	1.90 FT
CS	0.81 FT
VC	5.12 FTS



CENTERLINE CURVE DATA						
CURVE #	RADIUS	LENGTH	CHORD BEARING	CHORD LENGTH	PC	PT
CI	626,000'	121,640'	N05° 58' 15.48\"/>			

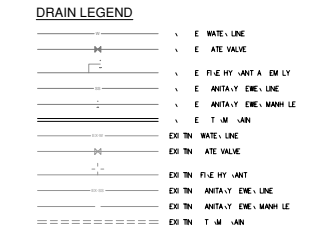
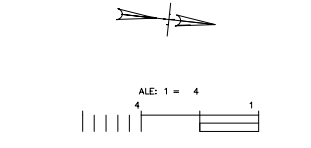
**SD-D2
(STA. -0+50.00 TO END)**

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

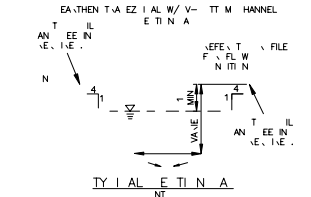


BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
H 7.1	N 11.4	N 4.4	H 7.1	H 7.1
BE 11.4	BE 11.4	BE 11.4	BE 11.4	BE 11.4
ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7



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

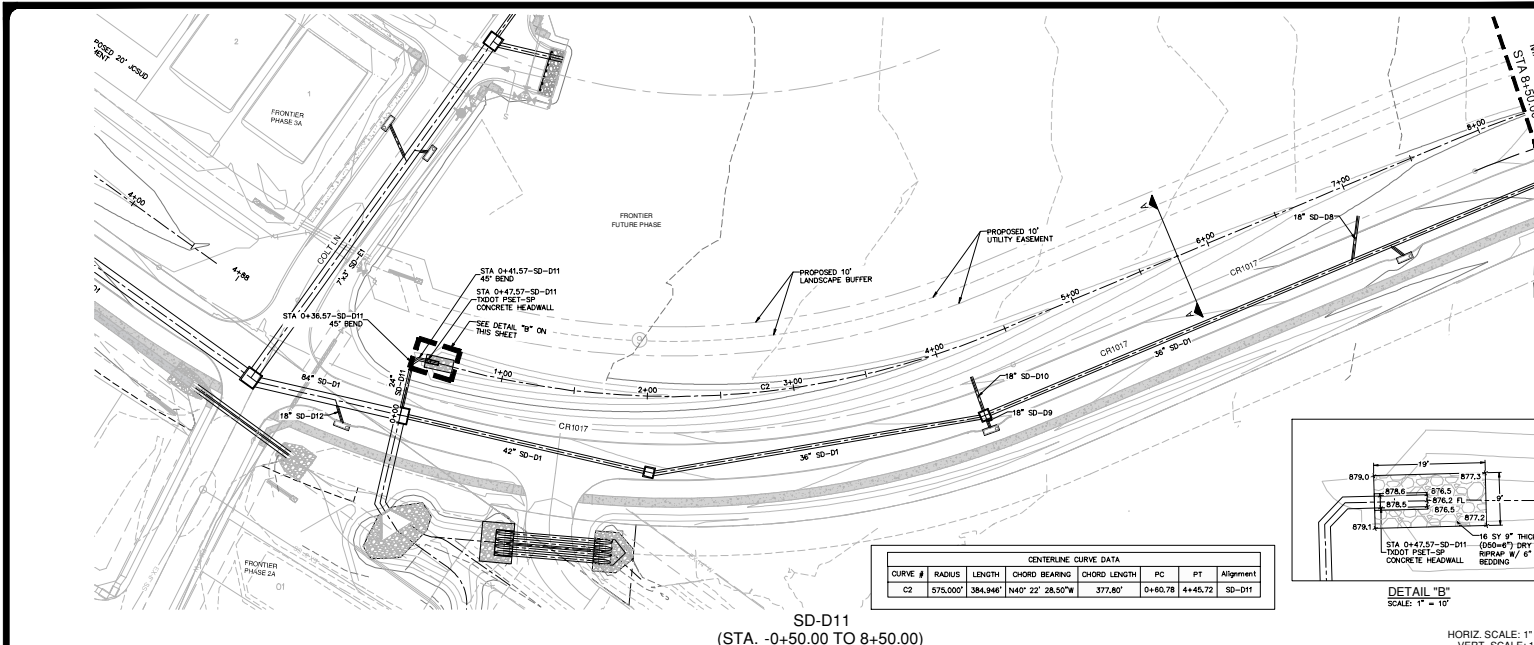


UTILITY NOTE

THE EX TN TULIE H WN IN THE E LAN WESE M LE F M VALJ SE AN A E WNDY E H W THE ONE AL EX TEN E M L A EN W F HC TULY INF M AT IN THE LAN. THE NTA T I HALL NTA T A TULY L ATN E A E H O U T I ANY N T I H TULY. THE NTA T I HALL VE FTY THE EX T I L AT N AN F AL EX TN TULIE AN ETE UNE F THE A E ANY N TULY WITH THE E FALURE. THE NTA T I HALL N TULY THE EX T I L AT N AN F AL EX TN TULIE A E I E E.

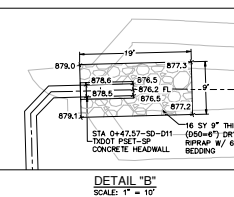
LAT: N/A
N: 7.17 - 7
E: M E L
ATE: L
HEET: 70

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM PLAN & PROFILE - LINE SD-D2
STA -0+50.00 TO END

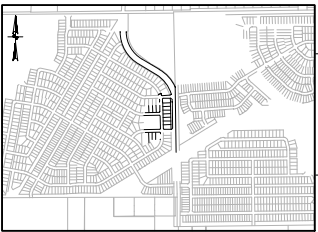


CENTERLINE CURVE DATA

CURVE #	RADIUS	LENGTH	CHORD BEARING	CHORD LENGTH	PC	PT	ALIGNMENT
C2	575.000'	384.946'	N40° 22' 28.50"W	377.80'	0+60.78	4+45.72	SD-D11



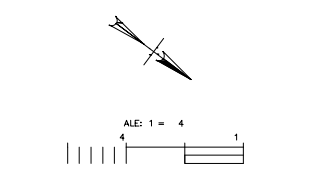
**SD-D11
(STA. -0+50.00 TO 8+50.00)**



KEY MAP

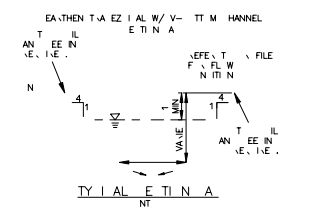
BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
H 7' 11"	H 7' 11"	H 7' 11"	H 7' 11"	H 7' 11"
BE 111.4	BE 111.4	BE 111.4	BE 111.4	BE 111.4
ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7



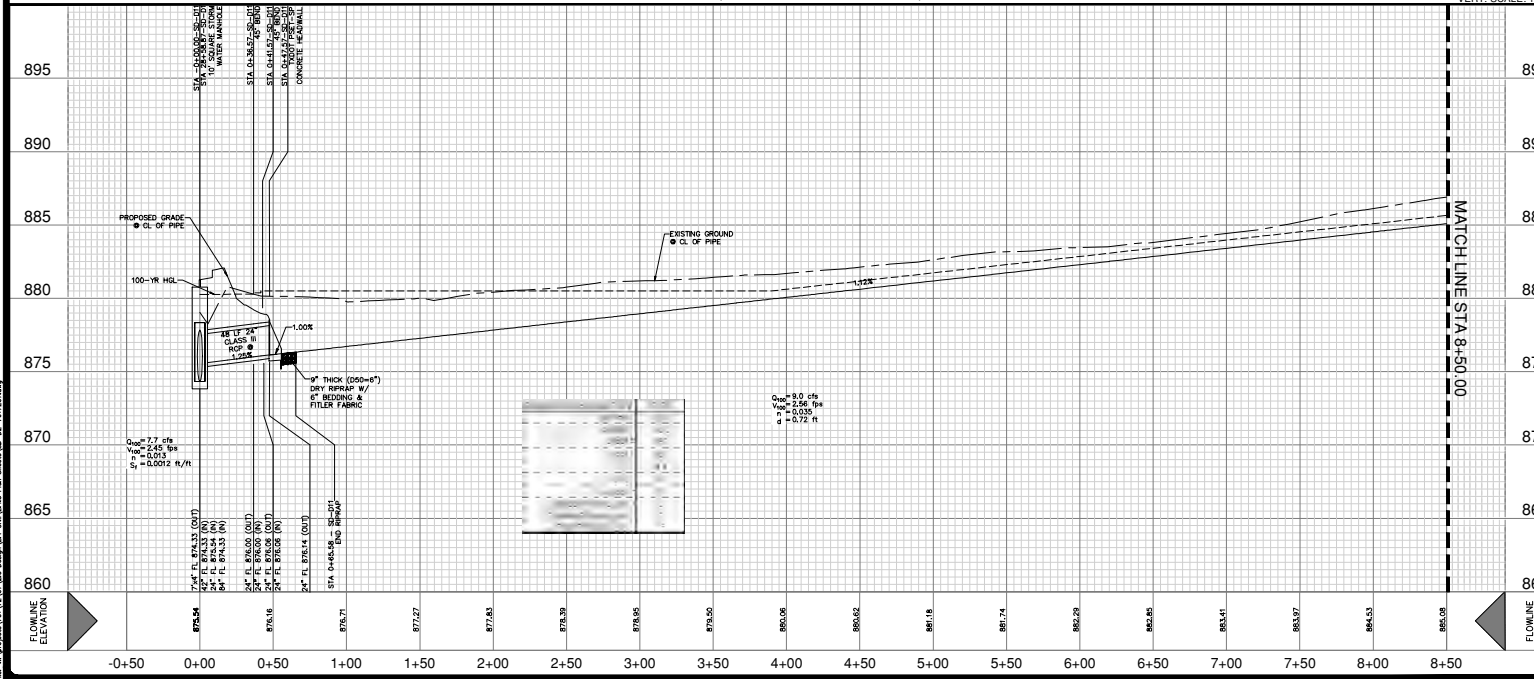
- DRAIN LEGEND**
- E WATER LINE
 - E ATE VALVE
 - E FILE HY UNIT A EM LY
 - E ANTA-Y EME LINE
 - E ANTA-Y EME MANH LE
 - E T M VAN
 - EX TN WATER LINE
 - EX TN ATE VALVE
 - EX TN FILE HY UNIT
 - EX TN ANTA-Y EME LINE
 - EX TN ANTA-Y EME MANH LE
 - EX TN T M VAN

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



TRENCH EXCAVATION SAFETY PROTECTION

NTA T A AN / NT A T / IN EN ENTY ETANE EM LVEE / T. T J A E I M / E E W ALY AVEY/E I MENT IN STANT IF ANY HALL EVIDE THE E LAN AN ANY AVA LA E E TE H N AL INE MANT IN AN THE ANTY ATE IN TALLAN THE WITH THE C E T W A A SA IN / E T M LEMENT NTA T / TEN H EX AVATI N AFEY / TE TN Y TON / JAM AN / E E F / THE C E T E E E IN THE NTA T MENT / THE NTA T / M LEMENTATI N F THE TON H EX AVATI N AFEY / TE TN THAT / M LY WIS A A NRAM U / TAN A / TEN H EX AVATI N / E I P P LLY NTA T AN / NTA T / IN EN ENTY ETANE EM LVEE / AFEY WITH HALL MANT A / VENH THE E E D N E AN A TIVITE IN AL W JON IN AN A N TON H EX AVATI N

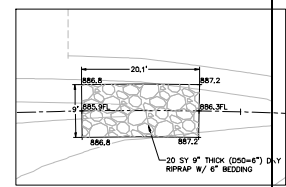
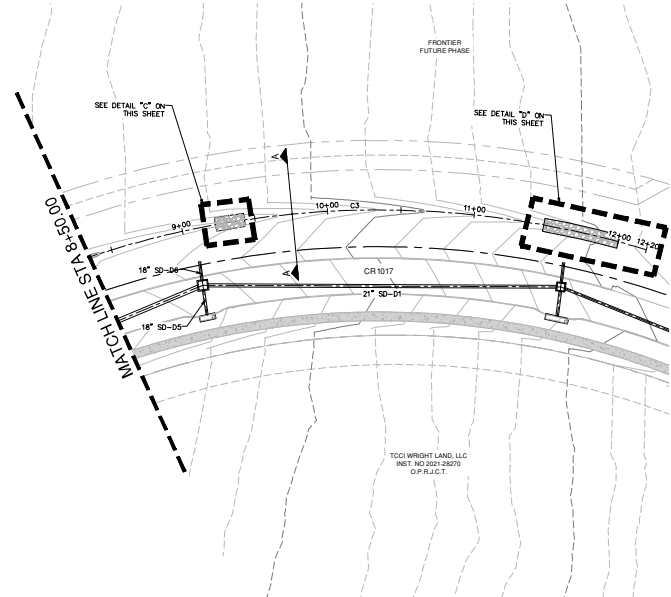


UTILITY NOTE

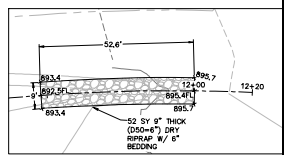
THE EX TN TURE H W N THE E LAN W E S E M I L E F M W A J / E AN A E W N E N H W THE D E H A D O T H E M L A S W F H E T U L Y I N F M A T N IN THE LAN THE NTA T / HALL NTA T A T U L Y I N A T N E I E E I H A N Y N T / T M A TURE THE NTA T / HALL W E I P P THE EX A T L A T I N AN F A L L EX TN TURE AN E T E M E I F THESE A E ANY M O U T WITH THE E F A L L U R E THE NTA T / HALL I N T R Y THE EN NEE I M E I A T E LY W H N F U T WITH EX TN TURE A E I V E S .

LAT	N/A
N	7.17 - 7
E	EM E L
A	E
E	L
E	L
H	71

**FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM PLAN & PROFILE - LINE SD-11
STA -0+50.00 TO 8+50.00**



DETAIL "C"
SCALE: 1" = 10'

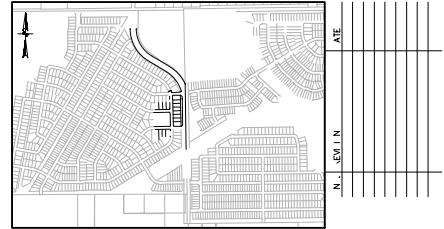
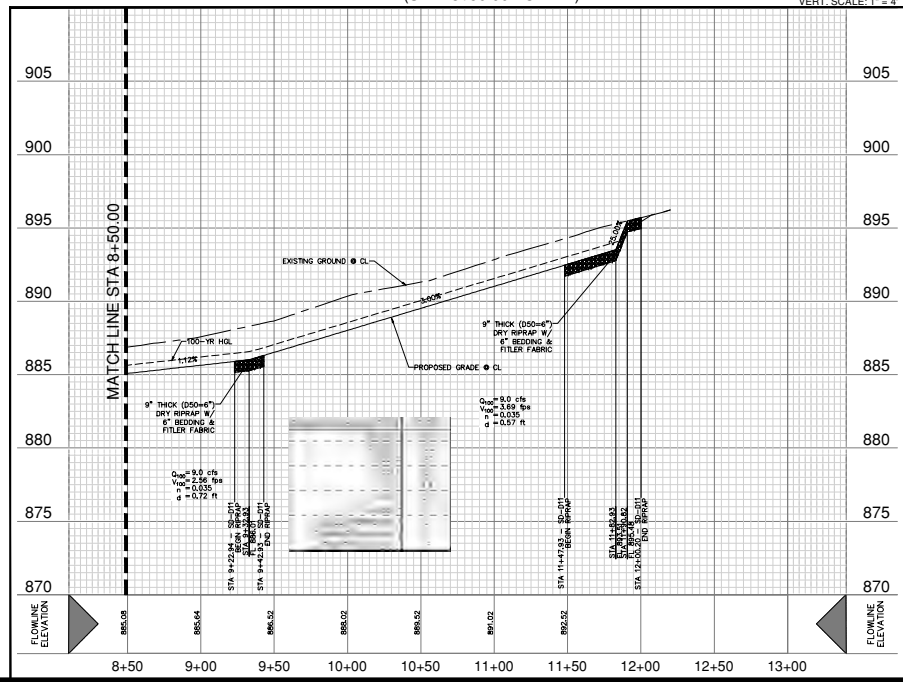


DETAIL "D"
SCALE: 1" = 20'

CENTERLINE CURVE DATA						
CURVE #	RADIUS	LENGTH	CHORD BEARING	CHORD LENGTH	PC	PT
C3	625.000'	432.957'	N39° 42' 29.60"W	424.35'	7+87.02	12+19.98

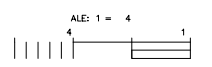
SD-D11
(STA. 8+50.00 TO END)

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



KEY MAP
N T-T - A E

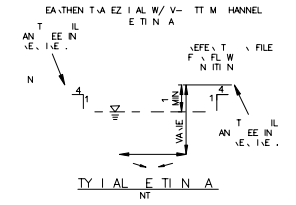
BENCHMARKS				
CP #1	CP #2	CP #3	CP #4	CP #5
H 7 11	H 7 11	H 7 11	H 7 11	H 7 11
BE 11 4	BE 11 4	BE 11 4	BE 11 4	BE 11 4
ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7



DRAIN LEGEND

- E WATER LINE
- E ATE VALVE
- E FILE HY UNIT A EM LY
- E ANTA-Y ENE. LINE
- E ANTA-Y ENE. MANH LE
- E T M JAN
- EX TN WATER LINE
- EX TN ATE VALVE
- EX TN FILE HY UNIT
- EX TN ANTA-Y ENE. LINE
- EX TN ANTA-Y ENE. MANH LE
- EX TN T M JAN

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



TRENCH EXCAVATION SAFETY PROTECTION

NTA T A AN / NT A T T IN EN ENTY ETANE EM L YEE
T T A A E T N / E T N W A LY A E T E I M E N T N I S T A N T I F A N Y
H A L L E V E W T H E E L A N A N A N Y A V A I L A B L E E T E H N A L R E M A T I N
A N T H E A N T I A T E I N T A L L A T I N T H E W I T H I N T H E C E T T W A A S A N
S E T M L E M E N T N T A T T T E N H E X A V A T I N A F E T Y T E T I N
Y T O M S A M A N Y A E E F T H E S E T E E E N
T H E N T A T M E N T T H E N T A T T M L E M E N T A T I N F T H E E
T O M S A M A N Y A E T E T I N T H A T M L Y W I S A A N G R A M W
T O M H E X A V A T I N A F E T Y T E T I N T H A T M L Y W I S A A N G R A M W
A N / N T A T T T I N E N E N T Y T E N E M L Y E E A N F E T Y
W I T H H A L T A N A V E N I N T H E E D N E A N A T I M E
I N M A L W O R K I N A N A N T I O N H E X A V A T I N

UTILITY NOTE

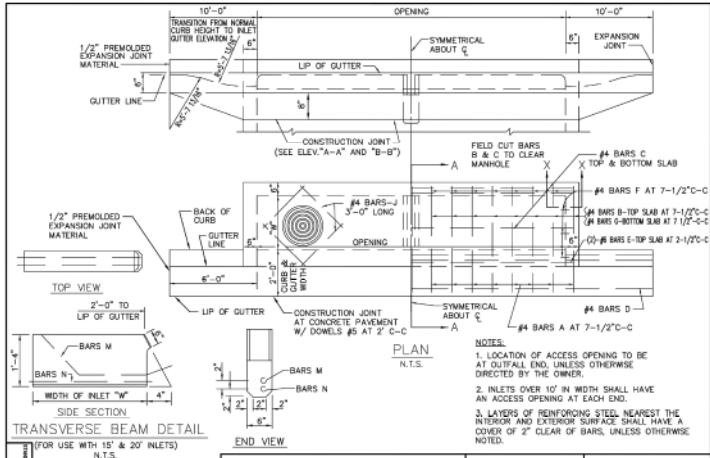
THE EX T N T U L T I E H W N N E E L A N W E S E M I L E F W W A J I
A N A S E B I N D E R T H W T H E D E A L D O T H E M L A S E W F H C T U L Y
R E M A T I N I N T H E L A N T H E N T A T T H A L L N T A T A T U L Y L A T R I
E S E E E F T Y A N Y N T Y T I N A T U R E T H E N T A T T H A L L
W E P T H E E X A T L A T I A N A N F A L E D T N T U L T I E A N E T E M P I F T H E
A E A N Y I N F I T W I T H T H E E F A L S I N T H E N T A T T H A L L W T R Y
T H E N E E I M M E D I A T E L Y W H E N I N F I T W I T H E X T N T U L T I E A E I V E E

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM PLAN & PROFILE - LINE SD-D11
STA 8+50.00 TO END

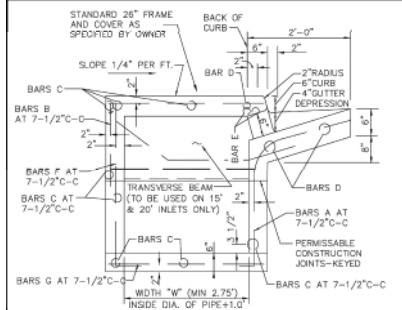
LAT	N/A
N	7.17 - 7
E	EM E1
ATE	
E I N E	L
HE KE	A L A N N R E A
HEET	72

REVIEW SET - NOT FOR CONSTRUCTION

DATE: 08-22-2022 08:30am User: G. Comber
C:\Users\GComber\OneDrive\Desktop\3A_CLEBURNE\3A_CLEBURNE.dwg
C:\Users\GComber\OneDrive\Desktop\3A_CLEBURNE.dwg
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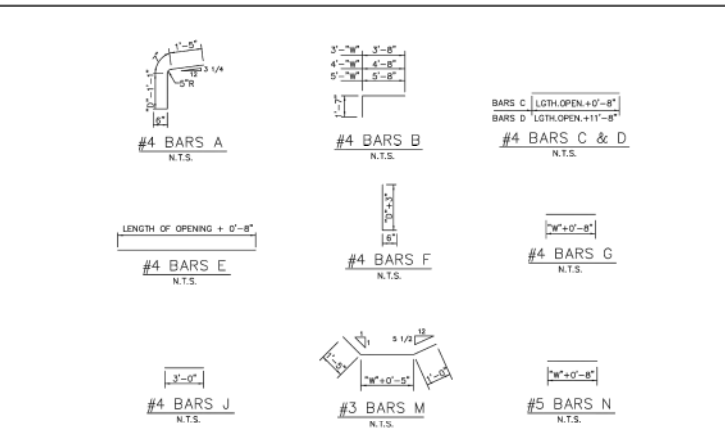


60209 10' STANDARD OPENING	CURB INLET 5', 10', 15' OR 20' OPENING	North Central Texas Council of Governments STANDARD SPECIFICATION REFERENCE 702	DATE	REVISIONS (DRAWING NO.)
			AUG '23	6020A



- GENERAL NOTES:**
- ALL CONCRETE SHALL BE CLASS "C" CONCRETE.
 - REINFORCING BARS SHALL BE STANDARD GRADE STEEL, DEFORMED REINFORCING BARS OF A DIAMETER AND LENGTH AS SHOWN.
 - CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
 - DIMENSIONS RELATING TO REINFORCING STEEL ARE TO OUTSIDE EDGE OF BARS.
 - FIELD CUT AND BOND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER PIPE.
 - RING AND COVER SHALL BE APPROVED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
 - INLET OPENING SHALL BE 6" MIN. OR 8" MAX.
 - PRECAST PRODUCT MAY BE USED AT THE APPROVAL OF THE OWNER.
 - 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).
 - DEPTHS GREATER THAN 10' NEED TO BE STRUCTURALLY ENGINEERED.
 - KEYWAY JOINT TO BE MIN. 18" ABOVE FLOWLINE, UNLESS APPROVED BY ENGINEER.

60209 10' STANDARD OPENING	CURB INLET CROSS SECTION & INLET THROAT	North Central Texas Council of Governments STANDARD SPECIFICATION REFERENCE 702	DATE	REVISIONS (DRAWING NO.)
			AUG '23	6020B



60209 10' STANDARD OPENING	CURB INLET REBAR	North Central Texas Council of Governments STANDARD SPECIFICATION REFERENCE 702	DATE	REVISIONS (DRAWING NO.)
			AUG '23	6020C

DEPTH "D"	BILL OF REINFORCING STEEL																															
	OPENING LENGTH "L" = 5ft				OPENING LENGTH "L" = 10ft				OPENING LENGTH "L" = 15 ft				OPENING LENGTH "L" = 20 ft																			
	Widths "W"				Widths "W"				Widths "W"				Widths "W"																			
3'-6"	17	3	2	4	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	26	26	36	2	2	44	48	52	34	34	44	2	2
3'-9"	18	1	1	1	20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4'-0"	19	1	1	1	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4'-3"	19	1	1	1	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4'-6"	21	1	1	1	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4'-9"	21	1	1	1	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5'-0"	21	1	1	1	26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5'-3"	23	1	1	1	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5'-6"	23	1	1	1	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5'-9"	25	1	1	1	30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6'-0"	25	1	1	1	30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6'-3"	26	1	1	1	30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6'-6"	27	1	1	1	32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6'-9"	27	1	1	1	32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7'-0"	29	1	1	1	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7'-3"	29	1	1	1	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7'-6"	30	1	1	1	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7'-9"	31	1	1	1	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8'-0"	31	1	1	1	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8'-3"	32	1	1	1	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8'-6"	33	1	1	1	38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8'-9"	34	1	1	1	38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9'-0"	35	1	1	1	40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9'-3"	36	1	1	1	40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9'-6"	37	1	1	1	42	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10'-0"	38	1	1	1	42	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NOTES:

- FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED UNLESS OTHERWISE DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.
- DEPTHS GREATER THAN 10' NEED TO BE STRUCTURALLY ENGINEERED.

60209 10' STANDARD OPENING	CURB INLET BILL OF REINFORCING STEEL	North Central Texas Council of Governments STANDARD SPECIFICATION REFERENCE 702	DATE	REVISIONS (DRAWING NO.)
			AUG '23	6020D

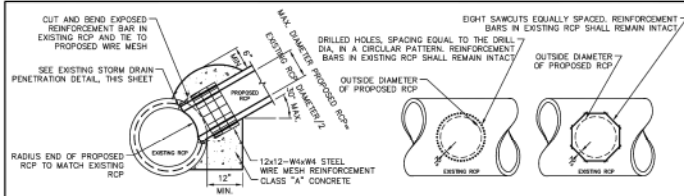
Date: Rev. 22, 2020, 6:43am User: G. Conroy File Path: S:\Projects\2020\2020-08-10-Stormwater\2020-08-10-Stormwater.dwg

N. LEVEL

60209
10' STANDARD OPENING
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM DRAIN DETAILS

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
STORM DRAIN DETAILS

LAT N/A
E 7.17 - 7
N E 01 E
F I 1 E
HE KE A L AMN
HEET 79

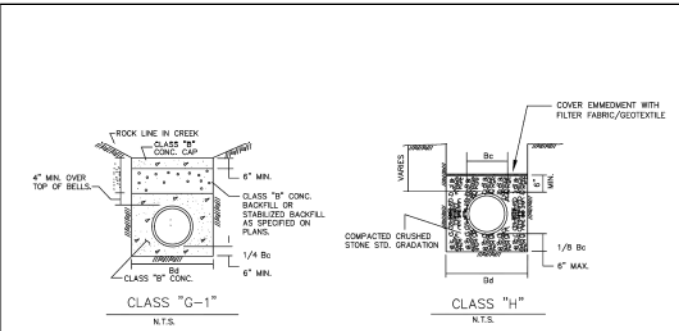


EXISTING STORM DRAIN PENETRATION METHODS
N.T.S.



PIPE COLLAR FOR FIELD CONNECTION
N.T.S.

0809	STORM DRAIN PIPE COLLAR FOR FIELD CONNECTION	North Central Area Council of Governments	STANDARD SPECIFICATION REFERENCE 501, 702
			DATE AUG '23

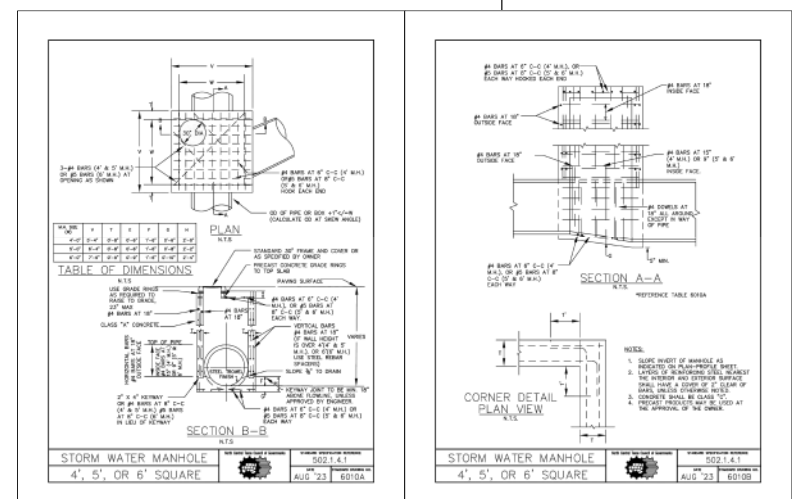


EMBEDMENT
CLASS "G-1" & "H"

3060	EMBEDMENT CLASS "G-1" & "H"	North Central Area Council of Governments	STANDARD SPECIFICATION REFERENCE 504.5
			DATE AUG '23

DEPTH "D"	SUMMARY OF QUANTITIES FOR CURB INLETS															
	5'-0" OPENING				10'-0" OPENING				15'-0" OPENING				20'-0" OPENING			
	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 6'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 6'-0"	WIDTH 7'-0"	WIDTH 5'-0"	WIDTH 6'-0"	WIDTH 7'-0"	WIDTH 8'-0"	WIDTH 6'-0"	WIDTH 7'-0"	WIDTH 8'-0"	WIDTH 9'-0"
3'-6"	2.62	3.06	2.95	3.32	3.28	3.73	4.12	4.79	4.64	5.21	5.20	5.64	5.69	6.67	6.48	7.21
3'-9"	2.70	3.09	3.04	3.41	3.39	3.73	4.25	4.94	4.78	5.36	5.34	5.79	5.87	6.87	6.58	7.41
4'-0"	2.78	3.28	3.14	3.54	3.49	3.89	4.38	5.18	4.92	5.65	5.49	6.05	6.17	7.19	6.77	7.76
4'-3"	2.87	3.34	3.23	3.70	3.59	4.06	4.51	5.26	5.06	5.73	5.64	6.19	6.22	7.29	6.99	7.87
4'-6"	2.95	3.58	3.32	3.94	3.69	4.31	4.64	5.58	5.20	6.07	5.79	6.56	6.40	7.70	7.14	8.30
4'-9"	3.03	3.61	3.41	4.10	3.79	4.38	4.77	5.66	5.34	6.16	5.94	6.65	6.57	7.80	7.32	8.41
5'-0"	3.12	3.67	3.51	4.16	3.80	4.45	4.90	5.74	5.47	6.24	6.09	6.74	6.75	7.91	7.51	8.53
5'-3"	3.20	3.83	3.60	4.24	4.00	4.63	5.03	6.00	5.61	6.52	6.23	7.04	6.93	8.27	7.69	8.90
5'-6"	3.28	3.89	3.69	4.30	4.10	4.72	5.16	6.08	5.75	6.61	6.36	7.13	7.11	8.37	7.88	9.01
5'-9"	3.37	4.05	3.78	4.51	4.20	4.95	5.29	6.35	5.89	6.90	6.53	7.44	7.28	8.74	8.07	9.40
6'-0"	3.45	4.15	3.88	4.60	4.30	5.04	5.42	6.46	6.03	7.02	6.68	7.57	7.45	8.88	8.25	9.54
6'-3"	3.53	4.25	3.97	4.70	4.41	5.15	5.55	6.61	6.17	7.18	6.83	7.73	7.63	9.08	8.44	9.75
6'-6"	3.62	4.37	4.08	4.86	4.51	5.32	5.68	6.81	6.31	7.39	6.97	7.97	7.81	9.35	8.67	10.05
6'-9"	3.70	4.41	4.15	4.90	4.61	5.37	5.81	6.98	6.45	7.47	7.12	8.06	7.98	9.40	8.81	10.15
7'-0"	3.78	4.60	4.28	5.10	4.71	5.60	5.94	7.16	6.59	7.77	7.27	8.37	8.16	9.81	8.99	10.53
7'-3"	3.86	4.65	4.34	5.16	4.81	5.67	6.07	7.24	6.72	7.85	7.42	8.46	8.33	9.92	9.18	10.59
7'-6"	3.95	4.77	4.43	5.29	4.91	5.70	6.20	7.42	6.86	8.04	7.57	8.66	8.51	10.16	9.36	10.89
7'-9"	4.03	4.91	4.53	5.44	5.02	5.87	6.33	7.63	7.05	8.28	7.71	8.80	8.67	10.40	9.55	11.18
8'-0"	4.12	4.98	4.62	5.50	5.12	6.04	6.46	7.70	7.14	8.34	7.86	8.99	8.86	10.51	9.73	11.29
8'-3"	4.20	5.04	4.71	5.59	5.22	6.13	6.59	7.84	7.28	8.49	8.01	9.15	9.04	10.69	9.94	11.49
8'-6"	4.28	5.19	4.80	5.76	5.32	6.32	6.71	8.04	7.42	8.71	8.16	9.38	9.21	11.07	10.18	11.76
8'-9"	4.37	5.28	4.90	5.86	5.42	6.43	6.84	8.19	7.56	8.86	8.31	9.54	9.39	11.19	10.29	11.99
9'-0"	4.45	5.45	5.06	6.05	5.53	6.64	6.97	8.42	7.70	9.12	8.46	9.82	9.56	11.48	10.47	12.31
9'-3"	4.53	5.54	5.08	6.14	5.63	6.74	7.10	8.56	7.84	9.29	8.60	9.99	9.74	11.69	10.69	12.52
9'-6"	4.62	5.68	5.17	6.30	5.73	6.92	7.23	8.78	7.97	9.50	8.75	10.22	9.92	11.77	10.65	12.71
10'-0"	4.78	5.82	5.36	6.45	5.93	7.08	7.49	9.00	8.11	9.74	9.05	10.48	10.27	12.27	11.29	13.12

CURB INLET
SUMMARY OF QUANTITIES



EMBEDMENT
CLASS "G-1" & "H"

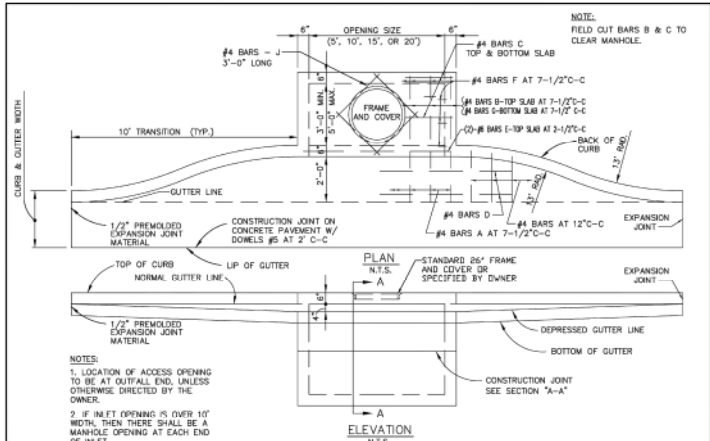
6020E	EMBEDMENT CLASS "G-1" & "H"	North Central Area Council of Governments	STANDARD SPECIFICATION REFERENCE 504.5
			DATE AUG '23

DATE: 08/27/2025, 6:43 AM, USER: G. CURRY, PROJECT: 20250827.001, SHEET: 0809 OF 20250827.001

DATE: 08/27/2025, 6:43 AM, USER: G. CURRY, PROJECT: 20250827.001, SHEET: 0809 OF 20250827.001

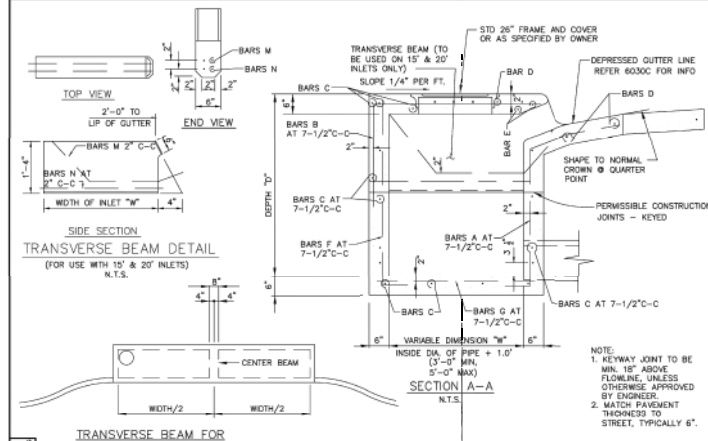
FRONTIER - PHASE 3A
CITY OF CLEBURNE ET J., JOHNSON COUNTY, TEXAS
STORM DRAIN DETAILS

REVIEW SET - NOT FOR CONSTRUCTION



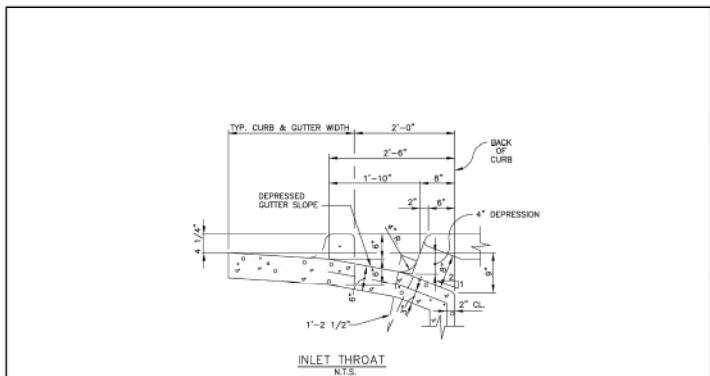
NOTES:
 1. LOCATION OF ACCESS OPENING TO BE AT OUTFALL END, UNLESS OTHERWISE DIRECTED BY THE OWNER.
 2. IF INLET OPENING IS OVER 10' WIDTH, THEN THERE SHALL BE A MANHOLE OPENING AT EACH END OF INLET.

CURB INLET RECESSED 5', 10', 15' OR 20' OPENING		STANDARD SPECIFICATION REFERENCE 702
		DATE AUG '23



NOTE:
 1. KEYWAY JOINT TO BE MIN. 18\"/>

CURB INLET RECESSED CROSS SECTION & CENTER BEAM		STANDARD SPECIFICATION REFERENCE 702
		DATE AUG '23



CURB INLET RECESSED INLET THROAT		STANDARD SPECIFICATION REFERENCE 702
		DATE AUG '23

GENERAL NOTES:

- ALL REINFORCING STEEL SHALL BE GRADE 60, DEFORMED REINFORCING BARS AT A DIAMETER & LENGTH AS SHOWN.
- ALL CONCRETE SHALL BE CLASS "C". ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4\"/>

CURB INLET RECESSED GENERAL NOTES		STANDARD SPECIFICATION REFERENCE 702
		DATE AUG '23

Date: Dec 27, 2025, 6:43 AM User: G. Campfire
 File Path: \\s01c01\projects\2025\60303\60303.dwg
 Plot Date: 12/27/2025 6:43 AM
 Plot Scale: 1:1
 Plot Size: 11.00 x 17.00
 Plot Orientation: Landscape
 Plot Device: HP DesignJet 4440 C

ATE
 N. LEVEL N

GISE: ENVIRONMENTAL, S.E. 210, P. AND, X. 70202, 714.459.6484
 TEXAS ENGINEERING FIRM ACT 1 TEXAS SURVEYING FIRM #002600

FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 STORM DRAIN DETAILS

LAT N N/A
 N 7.17 - 7
 ATE E 0M E L
 F I N E
 HE KE A L M N
 HEET 81

REVIEW SET - NOT FOR CONSTRUCTION

Span	Span 10' - 12' (10'-0" to 12'-0")										Span 12' - 14' (12'-0" to 14'-0")									
	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"
10'-0"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"

FOR USE ON BOX JUNCTION BOXES ONLY

FABRICATED BOXES
GENERAL NOTES:
1. PRECAST CONCRETE BOXES OF 36" DIA. BOX, 36" DIA. BOX, 48" DIA. BOX, 60" DIA. BOX, AND 72" DIA. BOX ARE AVAILABLE IN 10' SPAN BOXES OR 12' SPAN BOXES.
2. PRECAST CONCRETE BOXES OF 36" DIA. BOX, 48" DIA. BOX, 60" DIA. BOX, AND 72" DIA. BOX ARE AVAILABLE IN 12' SPAN BOXES OR 14' SPAN BOXES.
3. PRECAST CONCRETE BOXES OF 36" DIA. BOX, 48" DIA. BOX, 60" DIA. BOX, AND 72" DIA. BOX ARE AVAILABLE IN 14' SPAN BOXES OR 16' SPAN BOXES.
4. PRECAST CONCRETE BOXES OF 36" DIA. BOX, 48" DIA. BOX, 60" DIA. BOX, AND 72" DIA. BOX ARE AVAILABLE IN 16' SPAN BOXES OR 18' SPAN BOXES.
5. PRECAST CONCRETE BOXES OF 36" DIA. BOX, 48" DIA. BOX, 60" DIA. BOX, AND 72" DIA. BOX ARE AVAILABLE IN 18' SPAN BOXES OR 20' SPAN BOXES.

DESIGN DATA FOR PRECAST BASE AND JUNCTION BOX
PDD
DATE: 10/15/2024
DRAWN: J. LEVIN
CHECKED: J. LEVIN
SCALE: AS SHOWN

REQUIREMENTS FOR CULVERT PIPE AND SAFETY PIPE RUNNERS

INSTALLATION DETAIL FOR SAFETY PIPE RUNNERS

PLAN
LONGITUDINAL ELEVATION
SECTION A-A
SECTION B-B

GENERAL NOTES:
1. PRECAST CONCRETE SAFETY PIPE RUNNERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE DESIGNER.
2. SAFETY PIPE RUNNERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE DESIGNER.
3. SAFETY PIPE RUNNERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE DESIGNER.
4. SAFETY PIPE RUNNERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE DESIGNER.
5. SAFETY PIPE RUNNERS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE DESIGNER.

DESIGN DATA FOR PRECAST SAFETY END TREATMENT TYPE II - PARALLEL DRAINAGE
PSET-SP
DATE: 10/15/2024
DRAWN: J. LEVIN
CHECKED: J. LEVIN
SCALE: AS SHOWN

CROSS PIPE LENGTHS, REQUIRED PIPE SIZES, AND RIPRAP QUANTITIES

Span	Variable Reinforcing		REINFORCING QUANTITIES		REMARKS															
	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)	Area (sq. ft.)																
10'-0"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"

ISOMETRIC VIEW OF TYPICAL INSTALLATION
SIDE ELEVATION OF CAST-IN-PLACE CONCRETE
SECTION A-A
SECTION B-B

SAFETY END TREATMENT FOR 12" DIA TO 24" DIA PIPE CULVERTS TYPE II - PARALLEL DRAINAGE SET-PD
DATE: 10/15/2024
DRAWN: J. LEVIN
CHECKED: J. LEVIN
SCALE: AS SHOWN

TABLE OF DIMENSIONS AND REINFORCING STEEL
TABLE OF DIMENSIONAL REINFORCING

WIRE DIMENSION FORMULAS
TABLE OF ESTIMATED CONCRETE QUANTITIES

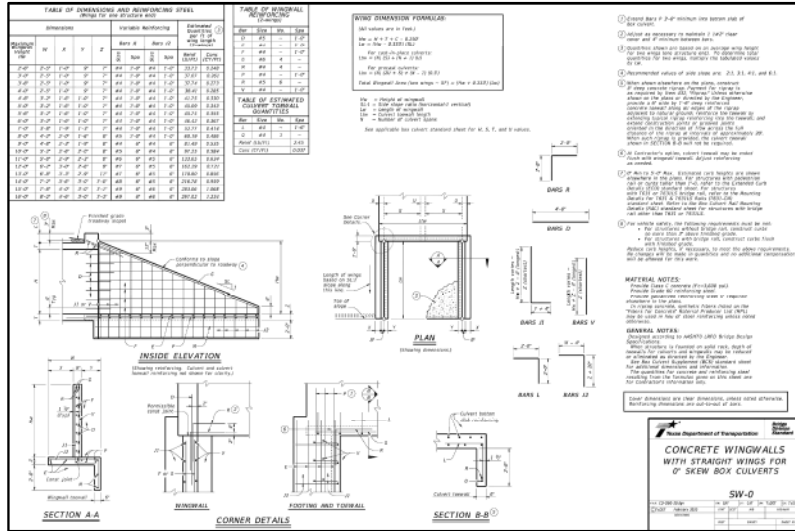
CONCRETE WINGWALLS WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS
SECTION A-A
SECTION B-B

GENERAL NOTES:
1. PRECAST CONCRETE WINGWALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE DESIGNER.
2. PRECAST CONCRETE WINGWALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE DESIGNER.
3. PRECAST CONCRETE WINGWALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION AND THE REQUIREMENTS OF THE DESIGNER.

DESIGN DATA FOR PRECAST SAFETY END TREATMENT TYPE II - PARALLEL DRAINAGE
PSET-SP
DATE: 10/15/2024
DRAWN: J. LEVIN
CHECKED: J. LEVIN
SCALE: AS SHOWN

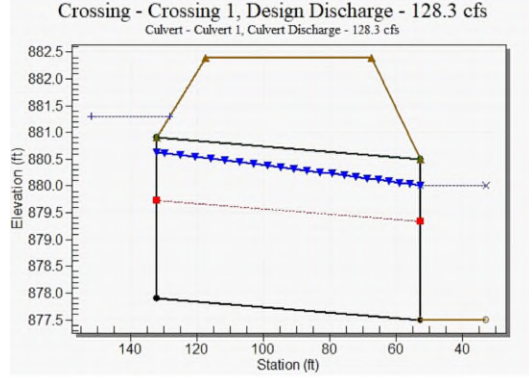
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W:\Projects\2024\10_15_24\16_44m\16_44m\16_44m.dwg
Date: 10/15/2024 16:44:00
Scale: 1/8" = 1'-0"

Date: Dec 27, 2025, 8:44am User: G:\civ\p\p\123025\123025.dwg Plot: Sheet: 0001 of 0002.dwg

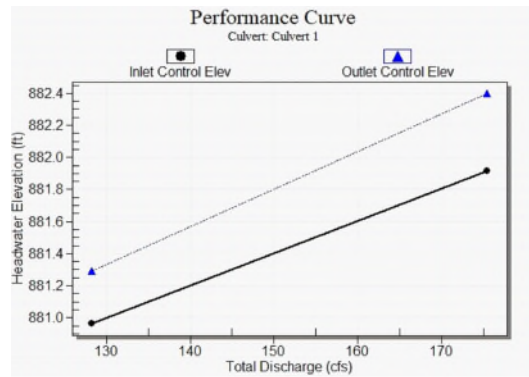


SD-H1 CULVERT CALCULATIONS AND SUMMARY TABLE (USING HY-8):

CULVERT DESIGN:



CULVERT PERFORMANCE CURVE:



CULVERT SUMMARY TABLE:

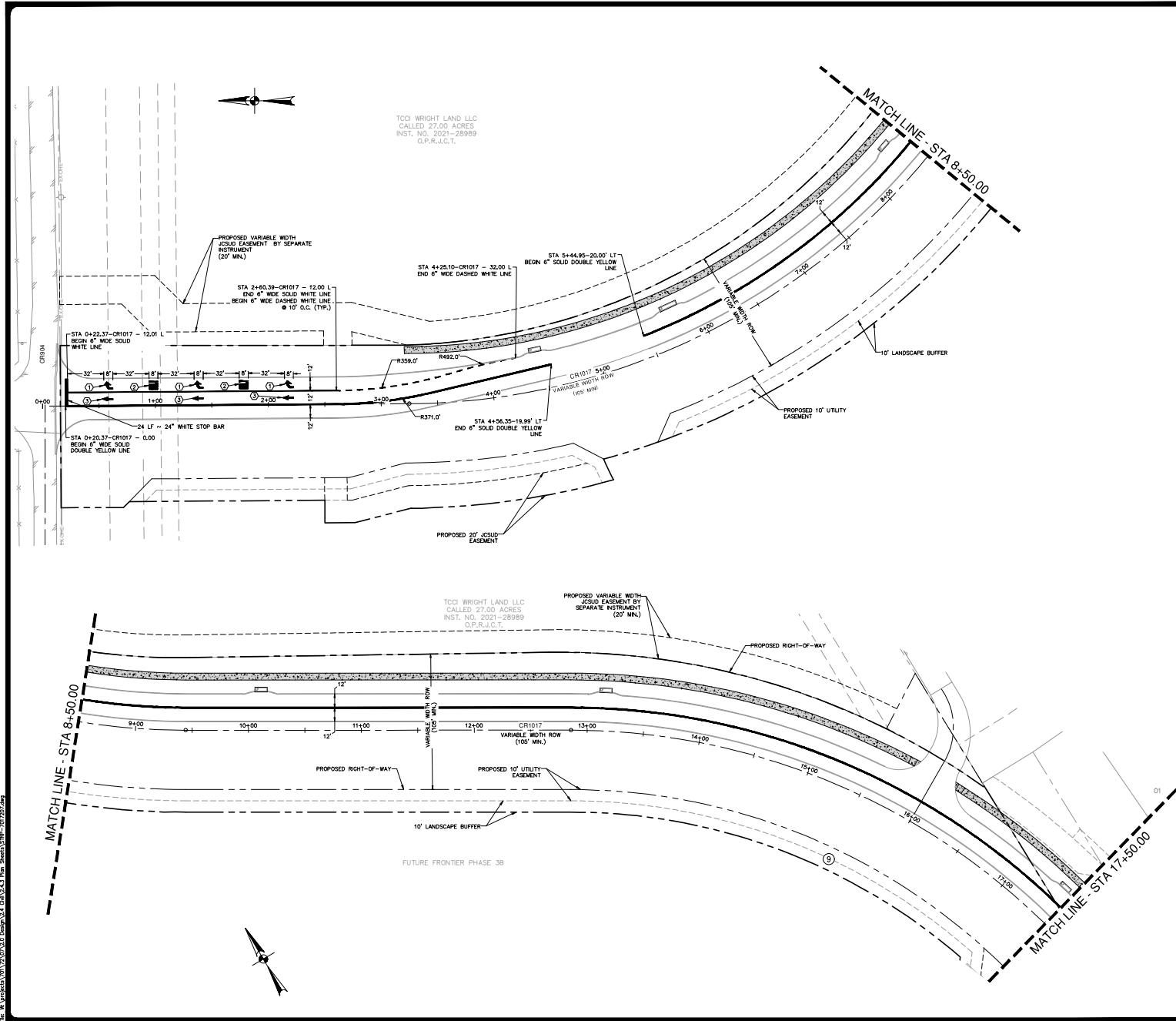
Flow Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Outlet Elevation (ft)	Culvert Control Depth (ft)	Flow Type	Inlet Depth (ft)	Outlet Depth (ft)	Culvert Depth (ft)	Headwater Velocity (ft/s)	Culvert Velocity (ft/s)	Transmission Velocity (ft/s)
128.25	128.25	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.26	128.26	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.27	128.27	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.28	128.28	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.29	128.29	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.30	128.30	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.31	128.31	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.32	128.32	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.33	128.33	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.34	128.34	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.35	128.35	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.36	128.36	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.37	128.37	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.38	128.38	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.39	128.39	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000
128.40	128.40	881.29	878.63	3.364	0.4621	3.000	1.834	2.510	2.510	0.076	0.000

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HEET	84

FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS

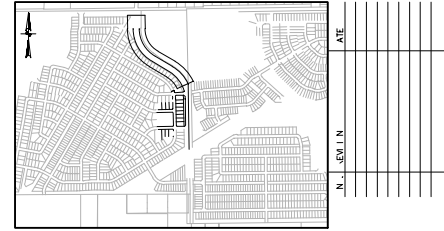
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HEET 84

Date: Dec 22, 2024, 6:46am User: G. Conway
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TCCI WRIGHT LAND LLC
 CALLED 27.00 ACRES
 INST. NO. 2021-28989
 O.P.R.U.C.T.

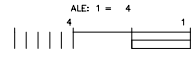
TCCI WRIGHT LAND LLC
 CALLED 27.00 ACRES
 INST. NO. 2021-28989
 O.P.R.U.C.T.



KEY MAP
N-T-T - ALE

BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
N 7 11	N 7 11	N 7 11	N 7 11	N 7 11
BE 7.5	BE 11.4	BE 14.4	BE 14.4	BE 4.1
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 13.7	ELEV. 4.1



LEGEND

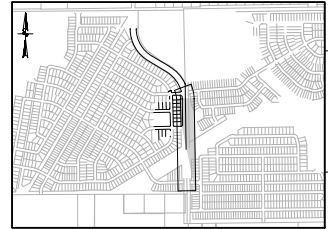
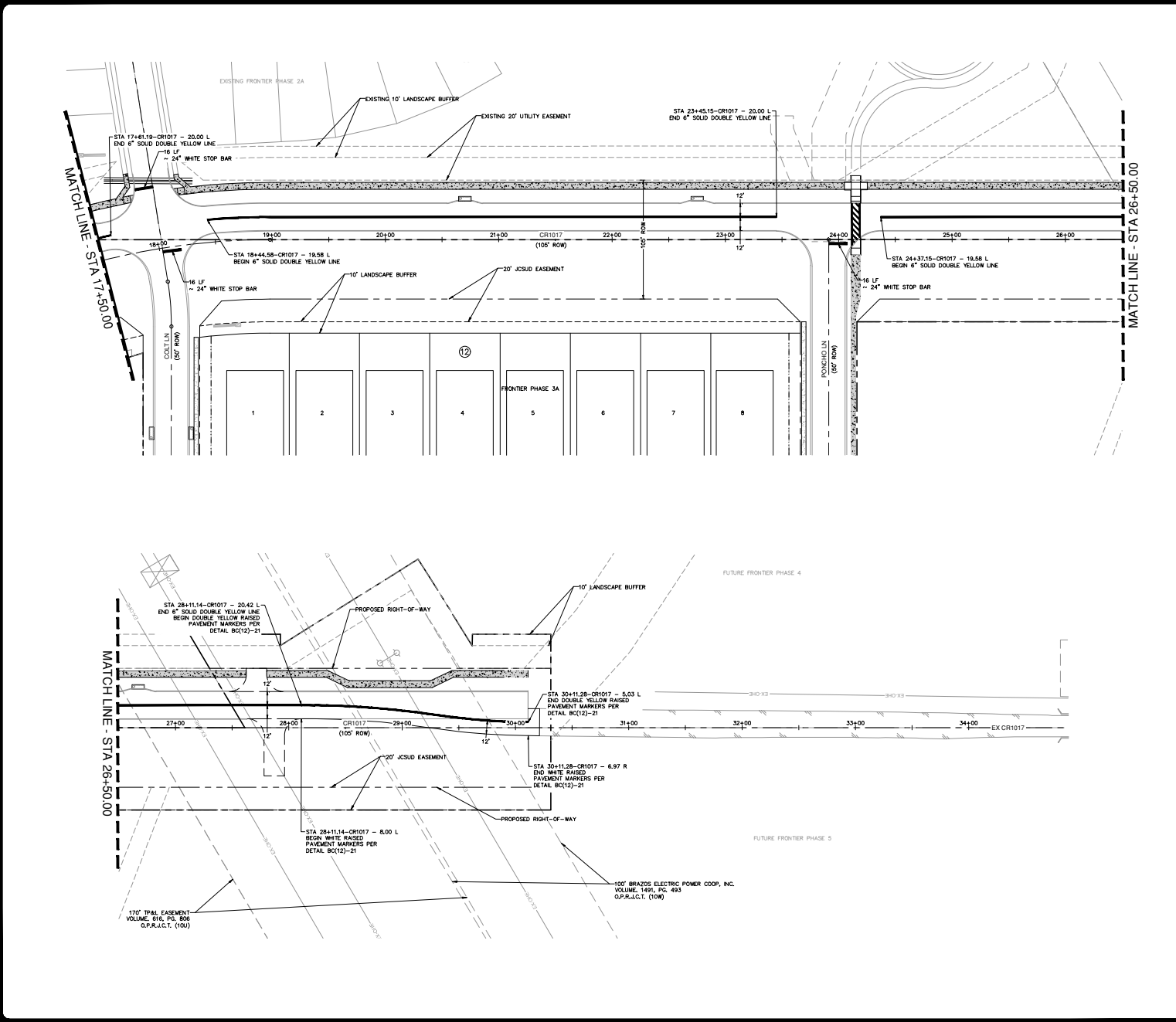
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DATE: 08/05/2024 10:00:00 AM
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FRONTIER - PHASE 3A
 CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
 PAVEMENT MARKING LAYOUT

LAT N	N/A
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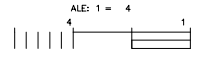
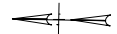
Date: Tue, 27, 2023, 6:48am User: G. Comber
 Path: \\P:\Projects\2023\23-001-Frontier-Phase-3A\Drawings\23-001-Frontier-Phase-3A-Pavement-Marking-Layout.dwg



KEY MAP
N T-T - A/E

BENCHMARKS

CP #1	CP #2	CP #3	CP #4	CP #5
N 7 11	N 11 7	N 7 11	N 7 11	N 7 11
ELEV. 7.1	ELEV. 7.7	ELEV. 7.7	ELEV. 7.7	ELEV. 4.1



FRONTIER - PHASE 3A
CITY OF CLEBURNE ETJ, JOHNSON COUNTY, TEXAS
PAVEMENT MARKING LAYOUT

LAT N	N/A
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HEET	88

REVIEW SET - NOT FOR CONSTRUCTION



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DEVELOPMENT - CIVIL PLAN REVIEW

December 2, 2025

RE: **Wright Farms Phase 3A**
PLANS ACCEPTANCE LETTER for Public Infrastructure Improvements (Sewer)

Mayor
Scott Cain

Mayor Pro Tem
Blake Jones

Councilmembers
Derek Weathers
Oliver Cozby
John Warren

City Manager
Michael Marrero

We have completed our review of the latest submittal for the referenced project and have no additional comments.

The following are steps required for construction to begin:

- 1) The platting process can continue with the issuance of this plan's acceptance letter. Please contact the Planning Department to move forward with the final plat approval.
- 2) Provide the information outlined in the attached pre-construction meeting checklist.
- 3) Attend the Pre-Construction meeting, which can be scheduled once items 1) and 2) are complete.
- 4) At the Pre-Construction meeting, plans will be stamped for release and construction can begin at any time after the plat is approved.

Please also note the following requirements regarding this project:

- 1) Before the sewer infrastructure will be accepted by the City, all other utilities, including the offsite sewer and lift station, as well as water and storm drain will be required to be in place, to assure acceptance of a viable sewer system.
- 2) The contractor(s) for the public infrastructure must attend the pre-construction meeting. The Developer is also encouraged to attend.
- 3) Final plans must be signed and sealed by the Professional Engineer, licensed in the State of Texas, who is responsible for the design.
- 4) Any project that disturbs one acre or greater of land or is part of a larger common plan of development is required to have a Storm Water Pollution Prevention Plan (SWPPP). Specific stormwater pollution prevention requirements must comply with the *General Permit to Discharge Under the Texas Pollutant Discharge Elimination System (TPDES) - Stormwater Discharges Associated with Construction Activities TXR150000*. Based on the acreage disturbed, notification requirements are as follows:



- a. For sites **one acre or greater in size but less than five acres** a Construction Site Notice must be posted on site and a copy of the notice provided to the City of Cleburne prior to any soil disturbing activities.
 - b. For sites **five acres or greater** in size (or sites that are part of a larger development plan of five acres or greater) a Notice of Intent (NOI) for the TPDES permit must be filed with TCEQ and posted on site. In addition, a copy of the notice and payment to TCEQ for the permit must be provided to the City of Cleburne 48 hours prior to earth disturbing activities.
 - c. For sites **10 acres or greater than in size** (or sites that are part of a larger development plan of 10 acres or greater) the SWPPP must include construction of an on-site detention basin to capture storm water run-off during all phases of earth moving and build out unless the responsible party can show that the site meets permit exemption requirements. A Notice of Intent for the TPDES permit must be filed with TCEQ and posted on site. In addition, a copy of the notice and payment to TCEQ for the permit must be provided to the City of Cleburne 48 hours prior to earth disturbing activities.
- 5) A final walk-thru inspection is required for each project. The contractor and/or developer shall correct all deficiencies noted prior to final acceptance by the City.
 - 6) Final acceptance from the City must be issued prior to building permit(s) being released.
 - 7) Prior to construction acceptance, the design engineer shall provide the City Record Drawings for the project. Record drawings shall be submitted in both .pdf and shapefile formats on a flash drive or file transfer.

Please let us know if you have any questions on the above.

Sincerely,

Kent Conner, P.E., CFM
City Engineer



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DEVELOPMENT - CIVIL PLAN REVIEW

December 2, 2025

RE: **Wright Farms Phase 3B**
PLANS ACCEPTANCE LETTER for Public Infrastructure Improvements (Sewer)

Mayor
Scott Cain

Mayor Pro Tem
Blake Jones

Councilmembers
Derek Weathers
Oliver Cozby
John Warren

City Manager
Michael Marrero

We have completed our review of the latest submittal for the referenced project and have no additional comments.

The following are steps required for construction to begin:

- 1) The platting process can continue with the issuance of this plan's acceptance letter. Please contact the Planning Department to move forward with the final plat approval.
- 2) Provide the information outlined in the attached pre-construction meeting checklist.
- 3) Attend the Pre-Construction meeting, which can be scheduled once items 1) and 2) are complete.
- 4) At the Pre-Construction meeting, plans will be stamped for release and construction can begin at any time after the plat is approved.

Please also note the following requirements regarding this project:

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 - b. For sites **five acres or greater** in size (or sites that are part of a larger development plan of five acres or greater) a Notice of Intent (NOI) for the TPDES permit must be filed with TCEQ and posted on site. In addition, a copy of the notice and payment to TCEQ for the permit must be provided to the City of Cleburne 48 hours prior to earth disturbing activities.
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Kent Conner, P.E., CFM
City Engineer