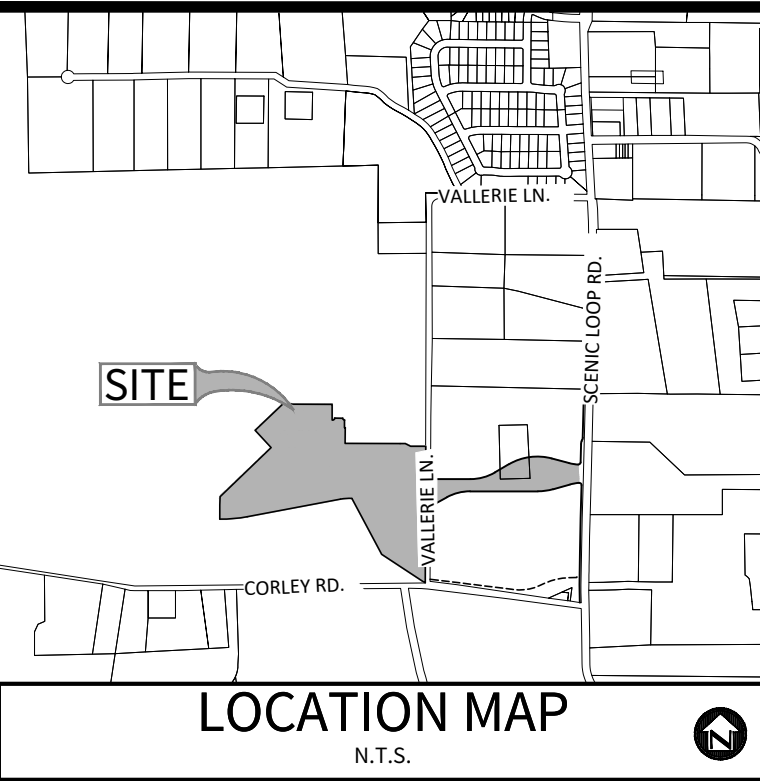




OWNER/DEVELOPER:

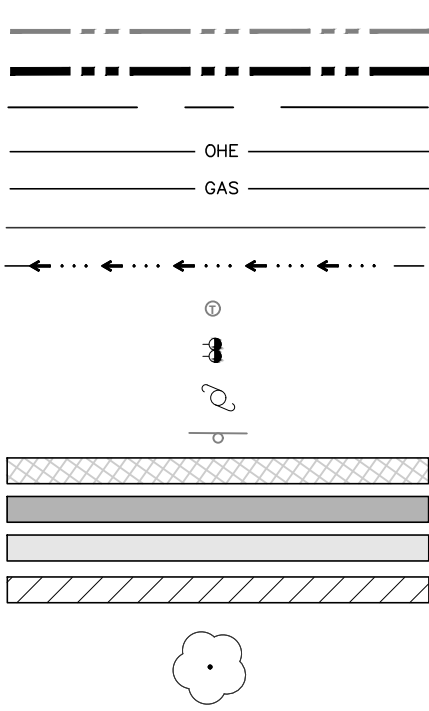
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
FAX: (210) 496-0449

CIVIL ENGINEER:

M.W. CUDE ENGINEERS, L.L.C.
CONTACT PERSON: DAVID D. CUPIT II, P.E.
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TX 78231
TEL: (210) 681-2951
FAX: (210) 523-7112

LEGEND:

EXISTING ROW/PROPERTY LINE
PROPOSED ROW LINE
EXISTING STREET CENTERLINE
EXISTING OVERHEAD ELECTRIC
EXISTING GAS LINE
EXISTING EDGE OF PAVEMENT
PROPOSED DRAIN FLOW
EXISTING FIBER OPTIC MANHOLE
EXISTING GUY WIRE
EXISTING POWER POLE
EXISTING SIGN
EXISTING PAVEMENT
PROPOSED PAVEMENT
PROPOSED SIDEWALK
EXISTING DRIVEWAY
EXISTING TREES



CAUTION NOTE:

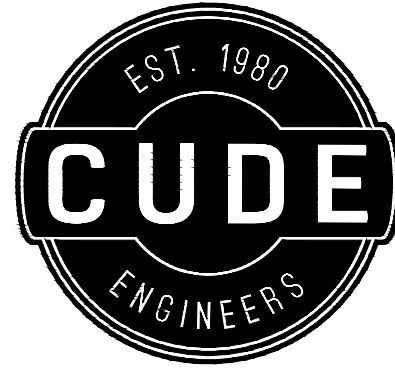
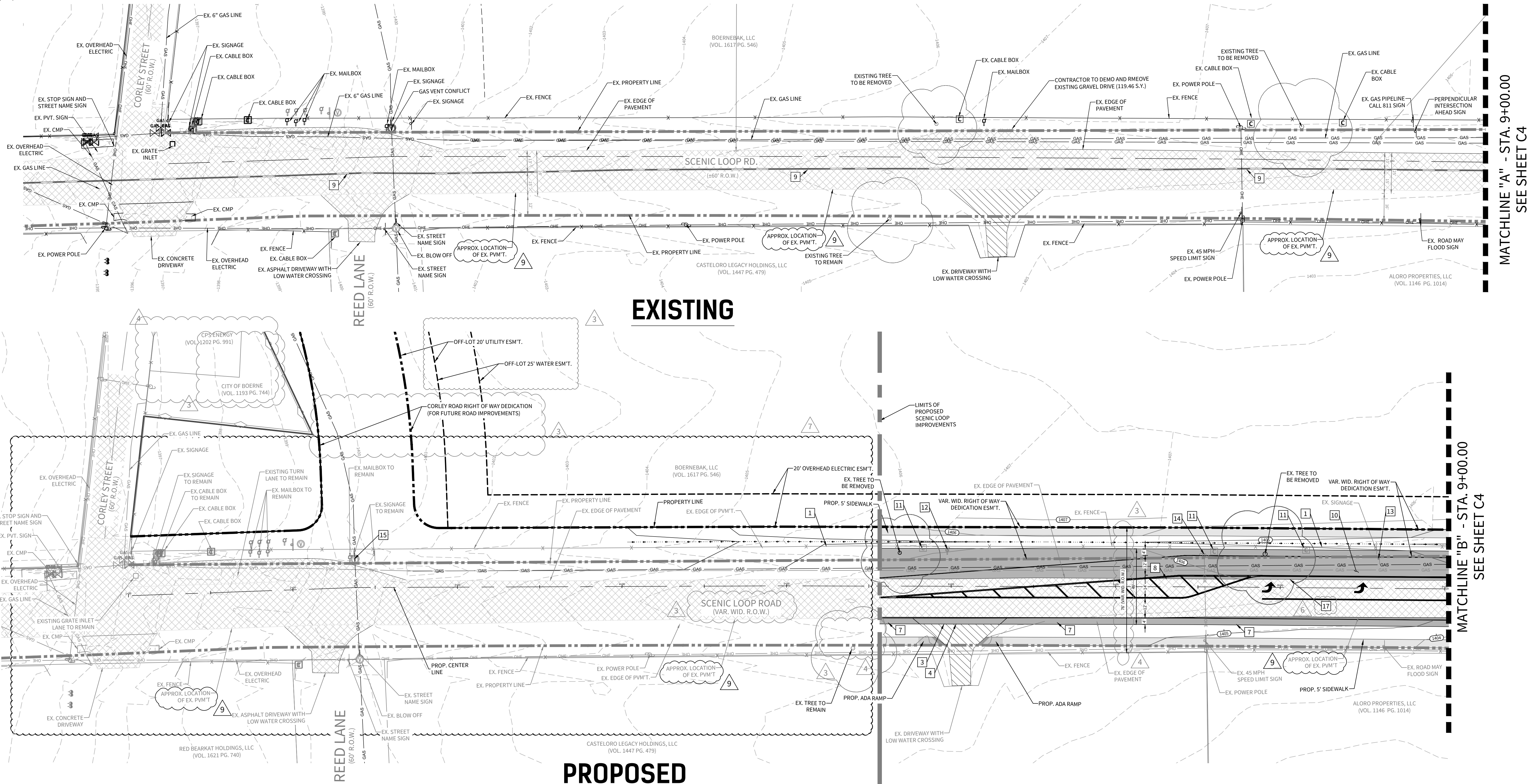
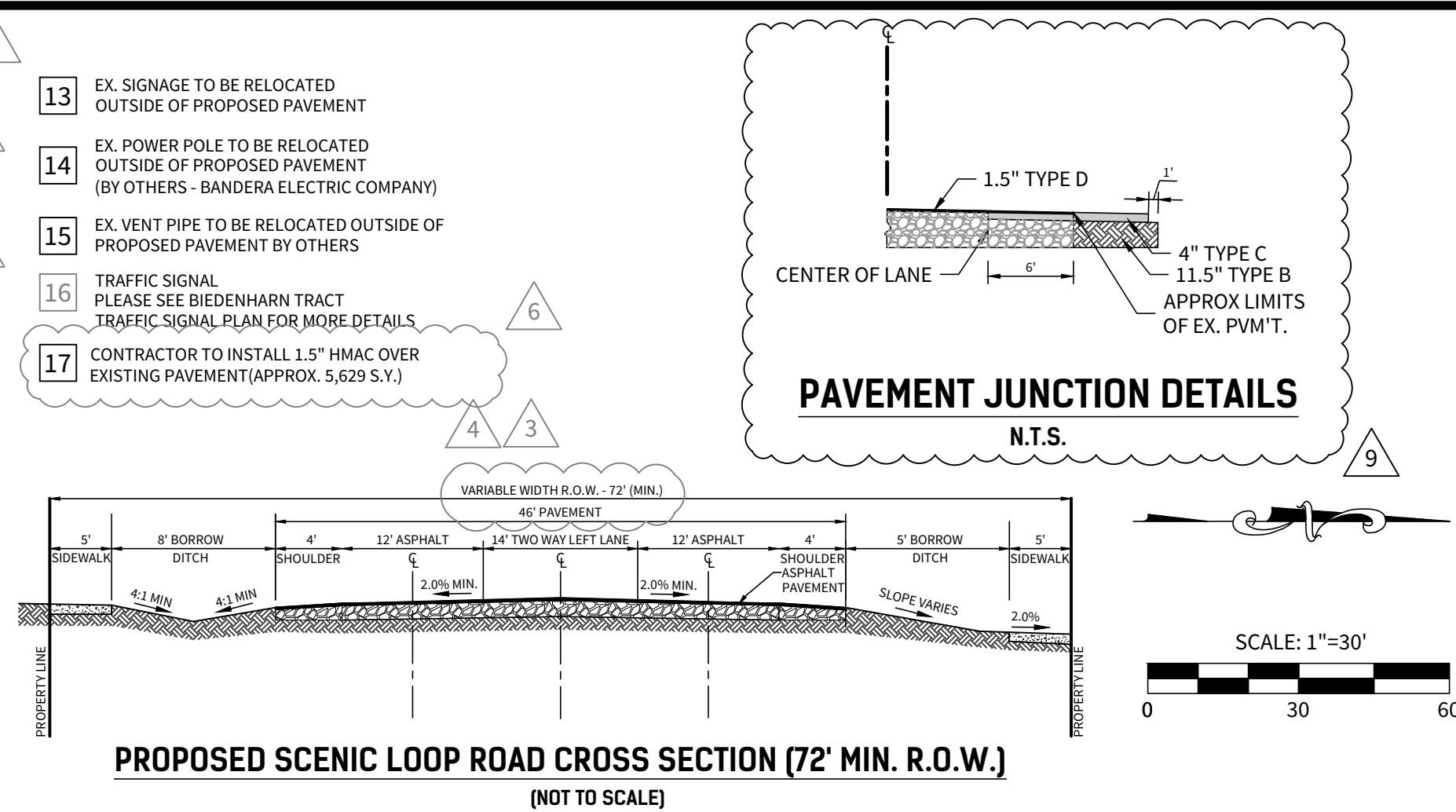
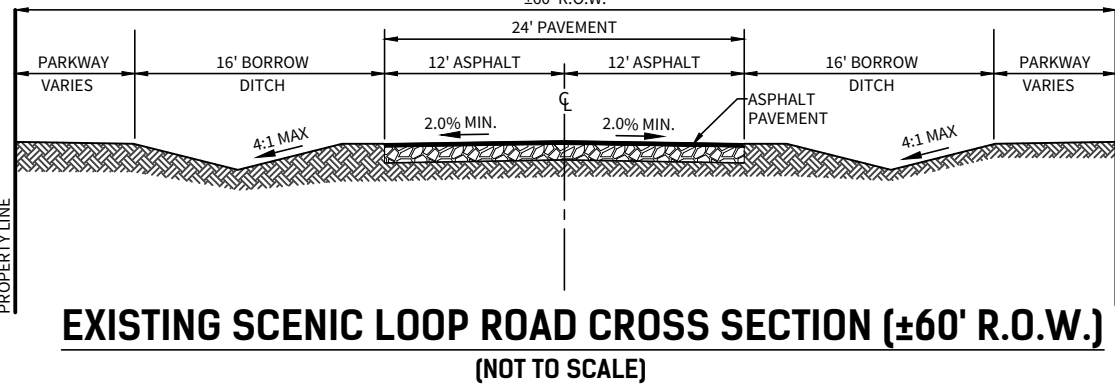
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC, UNDERGROUND FIBER OPTIC, GAS, AND TELEPHONE UTILITIES EXIST ALONG SCENIC LOOP ROAD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.

NOTES:

1. ALL PAVEMENT MARKINGS AND STRIPING SHALL BE HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS PER CITY OF BOERNE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. THE CONTRACTOR SHALL BE AWARE THAT EXISTING OVERHEAD ELECTRIC AND UNDERGROUND CABLE TV UTILITIES EXIST ALONG SCENIC LOOP ROAD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
3. CONTRACTOR IS REQUIRED TO REPLACE ALL EXISTING FENCES AND/OR DRIVEWAYS TO EXISTING OR BETTER CONDITION.
4. CONTRACTOR IS REQUIRED TO PROVIDE ACCESS TO ALL ADJACENT HOMEOWNERS AND DRIVEWAYS AT ALL TIMES.
5. CONTRACTOR IS REQUIRED TO REPLACE 85% REVEGETATION OF ALL DISTURBED AREAS WITHIN THE ROW UPON INFRASTRUCTURE COMPLETION.
6. CONTRACTOR IS RESPONSIBLE FOR ENSURING POSITIVE SITE DRAINAGE AT ALL TIMES DURING AND UPON COMPLETION OF INFRASTRUCTURE.
7. A KENDALL COUNTY PERMIT MUST BE OBTAINED BEFORE WORKING IN KENDALL COUNTY RIGHT OF WAY.

KEYNOTES:

1. CONTRACTOR TO DEMO AND RELOCATE EXISTING FENCE
2. CONTRACTOR TO REMOVE EX. GRATE INLET AND PLUG EXISTING STORM PIPE
3. CONTRACTOR TO DEMO EX. DRIVEWAY AND REPLACE WITH ASPHALT - (8.87 S.Y.)
4. CONTRACTOR TO MATCH PROP. PAVEMENT TO DRIVEWAY ELEVATION
5. CONTRACTOR TO DEMO EX. DRIVEWAY AND REPLACE WITH ASPHALT - (69.35 S.Y.)
6. CONTRACTOR TO DEMO EX. DRIVEWAY AND REPLACE WITH ASPHALT - (14.28 S.Y.)
7. CONTRACTOR TO INSTALL 4" HMAc TYPE "C" (NORTHBOUND 120 S.Y.)
8. CONTRACTOR TO SAWCUT AND MATCH EXISTING PAVEMENT WITH THE PROPOSED PAVEMENT
9. CONTRACTOR TO OBLITERATE THE EXISTING 4" DOUBLE YELLOW PAVEMENT MARKINGS (1,287 L.F. OVERALL)
10. CONTRACTOR TO INSTALL 4" HMAc TYPE "C" (SOUTHBOUND 2,727 S.Y.)
11. EX. CABLE BOX TO BE RELOCATED OUTSIDE OF PROPOSED PAVEMENT BY OTHERS
12. EX. MAILBOX TO BE RELOCATED OUTSIDE OF PROPOSED PAVEMENT



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CORLEY FARMS UNIT 1 SCENIC LOOP IMPROVEMENTS

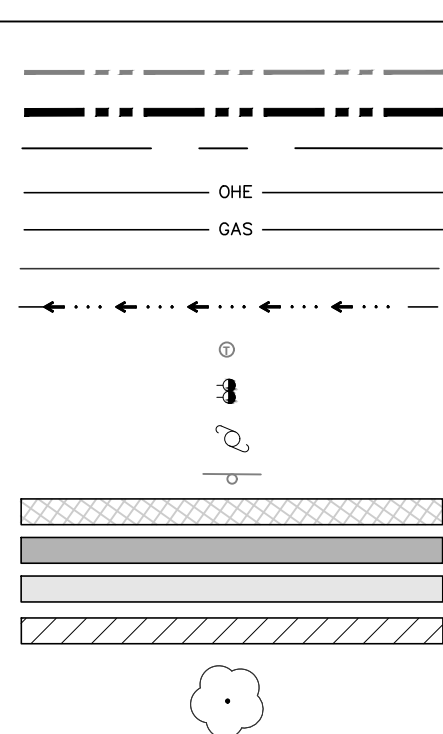
DATE
09/13/2023
PROJECT NO.
03481.004
DRAWN BY
C3
CHECKED BY
XV/JC/DDC

REVISIONS
1. 2021-04-23 - UPDATED PAVEMENT SECTION REFERENCE, ADDED ROW DIMENSION
2.
3. 2021-10-07 - CITY OF BOERNE COMMENTS
4. 2021-11-12 - CITY OF BOERNE COMMENTS
5. 2022-03-21 - KENDALL COUNTY COMMENTS
6. 2023-03-28 - ADDED KEYNOTE 17
7. 2023-07-13 - ADJUSTED PAVEMENT LAYOUT
8. 2023-08-31 - REMOVED FLEX BASE FROM KEYNOTE
9. 2023-09-12 - ADDED APPROXIMATE EDGE OF PAVEMENT LINE

STATE OF TEXAS
JAVIER CASTELLO
122170
PROFESSIONAL ENGINEER
09/13/23
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500



- EXISTING ROW/PROPERTY LINE
PROPOSED ROW LINE
EXISTING STREET CENTERLINE
EXISTING OVERHEAD ELECTRIC
EXISTING GAS LINE
EXISTING EDGE OF PAVEMENT
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PROPOSED SIDEWALK
EXISTING DRIVEWAY
EXISTING TREES



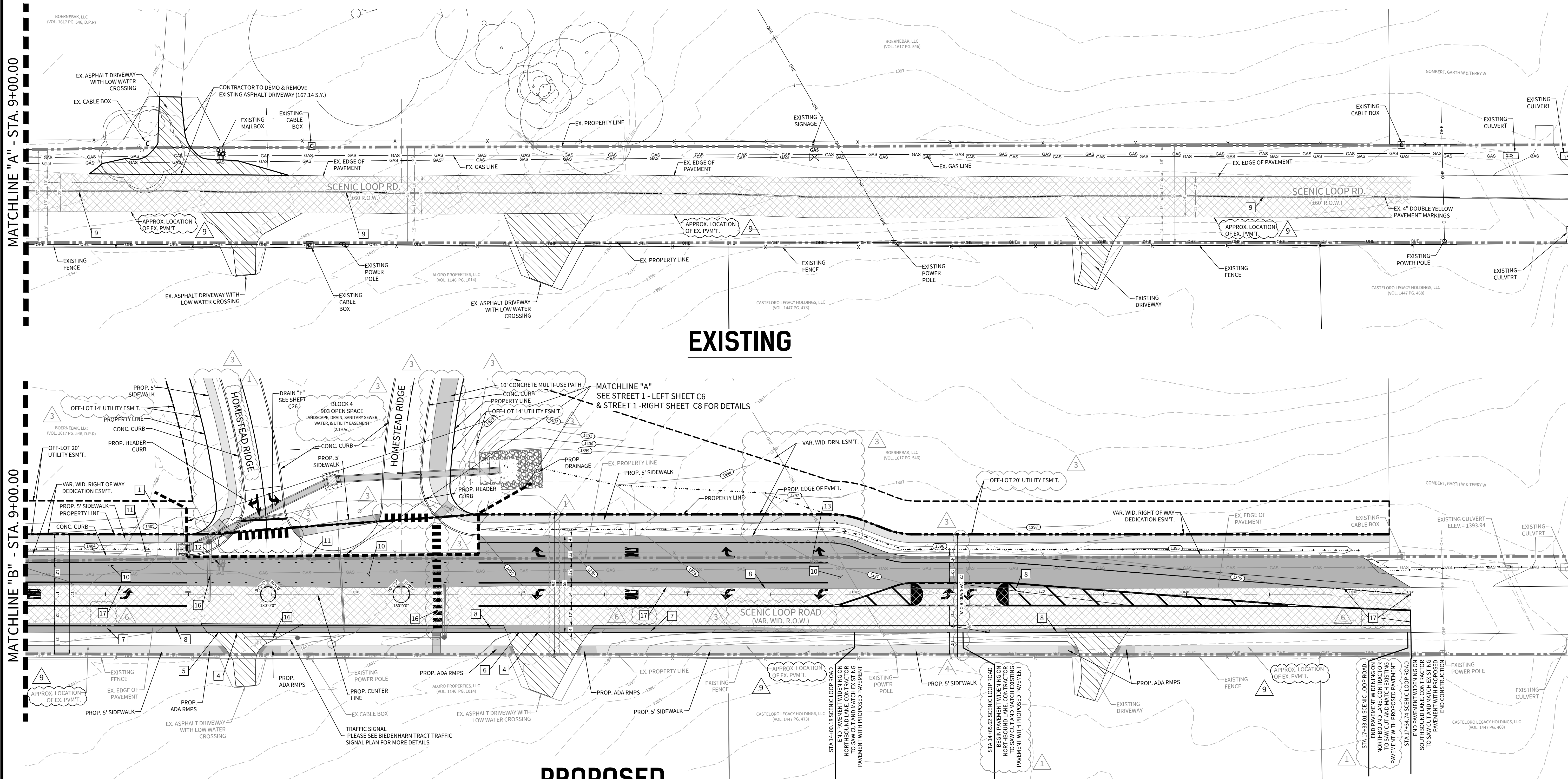
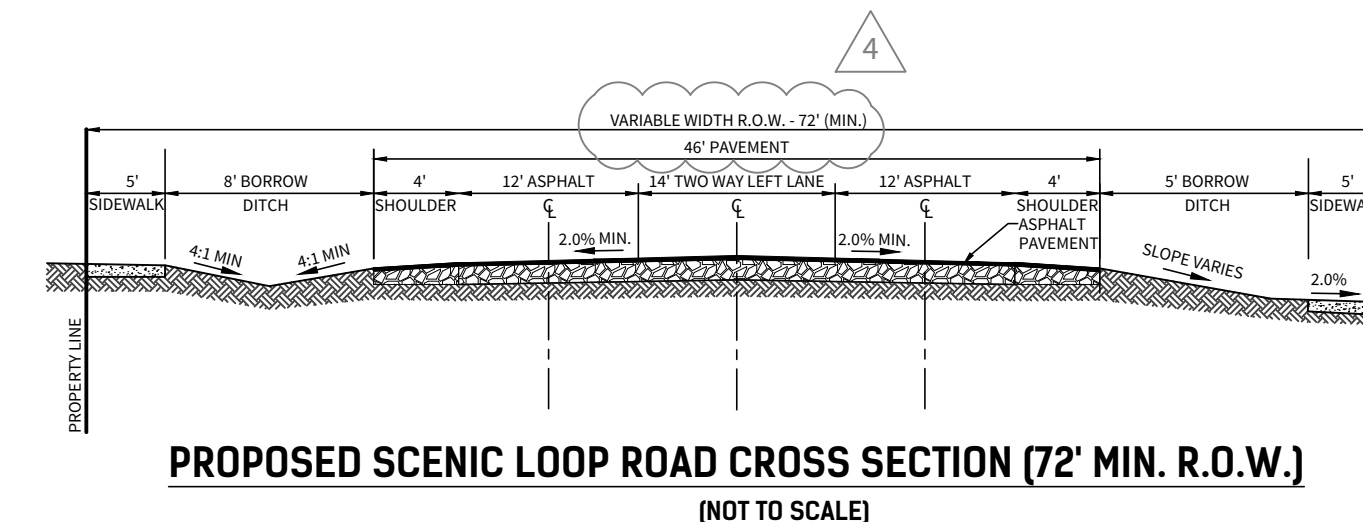
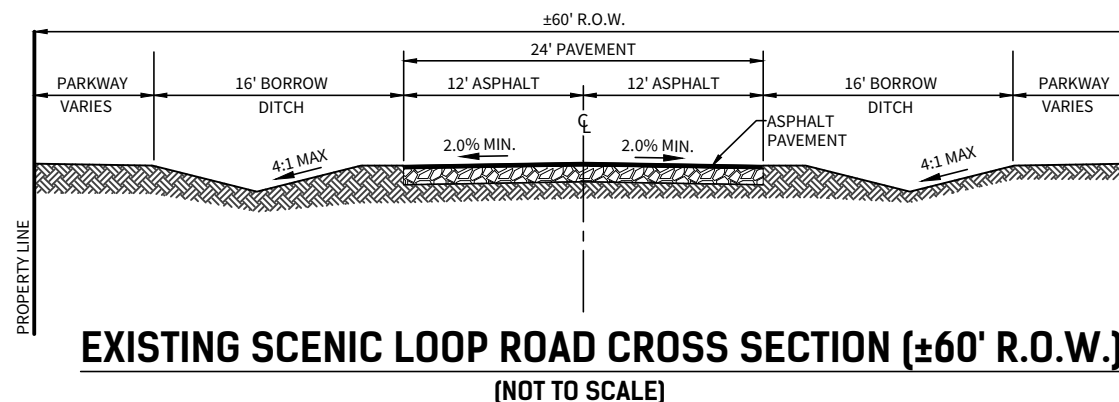
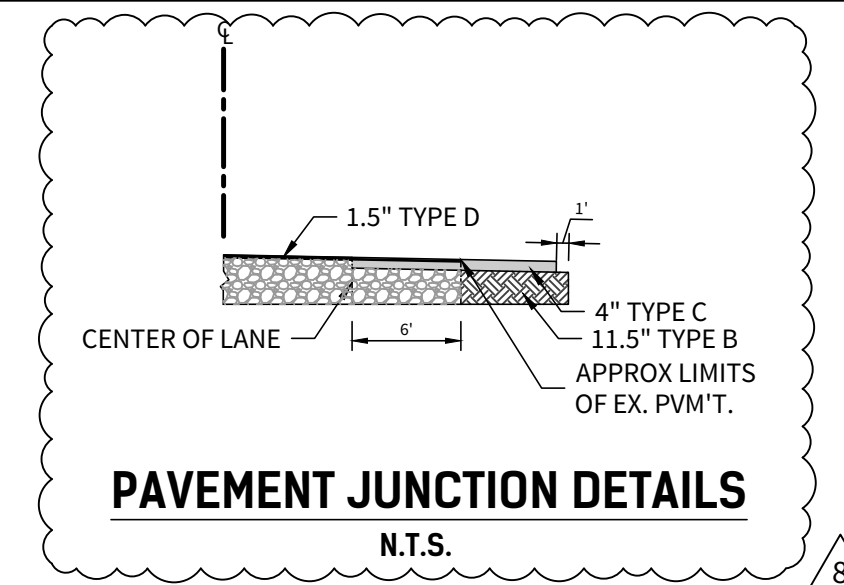
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2	CONTRACTOR TO REMOVE EX. GRATE INLET AND PLUG EXISTING STORM PIPE
3	CONTRACTOR TO DEMO EX. DRIVEWAY AND REPLACE WITH ASPHALT - (8.87 S.Y.)
4	CONTRACTOR TO MATCH PROP. PAVEMENT TO DRIVEWAY ELEVATION
5	CONTRACTOR TO DEMO EX. DRIVEWAY AND REPLACE WITH ASPHALT - (18.43 S.Y.)
6	CONTRACTOR TO DEMO EX. DRIVEWAY AND REPLACE WITH ASPHALT - (14.28 S.Y.)

7	CONTRACTOR TO INSTALL 4" HMAC TYPE "C" (NORTHBOUND 206 S.W.)
8	CONTRACTOR TO SAWCUT AND MATCH EXISTING PAVEMENT WITH THE PROPOSED PAVEMENT
9	CONTRACTOR TO OBLITERATE THE EXISTING 4" DOUB YELLOW PAVEMENT MARKINGS (1,287 L.F. OVERALL)
10	CONTRACTOR TO INSTALL 4" HMAC TYPE "C" (SOUTHBOUND 3,201 S.W.)
11	EX. CABLE BOX TO BE RELOCATED OUTSIDE OF PROPOSED PAVEMENT BY OTHERS
12	EX. MAIL BOX TO BE RELOCATED OUTSIDE OF PROPOSED PAVEMENT

- 13 EX. SIGNAGE TO BE RELOCATED OUTSIDE OF PROPOSED PAVEMENT
- 14 EX. POWER POLE TO BE RELOCATED OUTSIDE OF PROPOSED PAVEMENT (BY OTHERS - BOERNE ELECTRIC COMPANY)
- 15 EX. VENT PIPE TO BE RELOCATED OUTSIDE OF PROPOSED PAVEMENT BY OTHERS
- 16 TRAFFIC SIGNAL
PLEASE SEE BIEDENHARN TRACT TRAFFIC SIGNAL PLAN FOR MORE DETAILS
- 17 CONTRACTOR TO INSTALL 1.5" HMAC OVER EXISTING PAVEMENT (APPROX. 4,746 S.Y.)



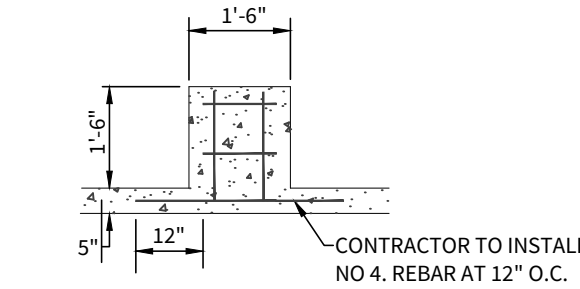
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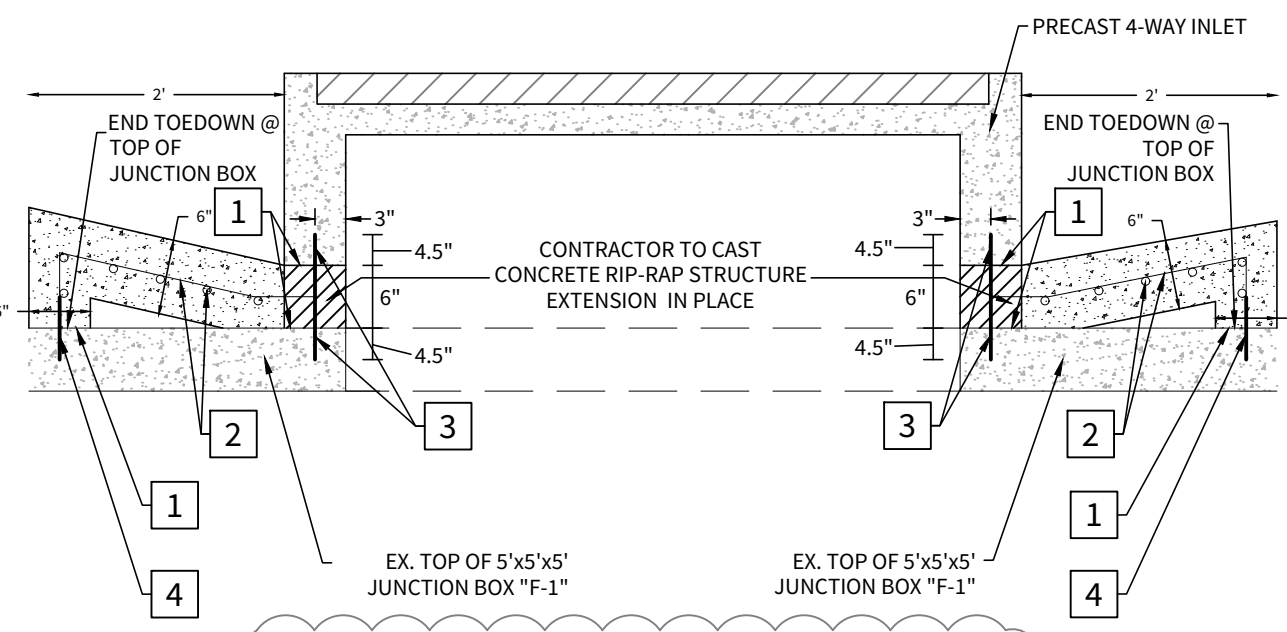
LEGEND & KEYNOTES

- PRECAST STRUCTURE
- PROPOSED CONCRETE STRUCTURE EXTENSION (CAST IN PLACE)
- PROPOSED CONCRETE RIP-RAP (CAST IN PLACE)
- #3 EPOXY COATED DOWEL BAR

- CONTRACTOR TO ROUGHEN EXISTING CONCRETE AT CONCRETE STRUCTURE EXTENSION WITH EPOXY COATED BONDING ADHESIVE AS ALLOWED IN THE CITY OF BOERNE STANDARD SPECIFICATIONS SECTION 02072
- #3 BARS @ 18" O.C.E.W. (SEE CITY OF BOERNE CONCRETE RIP RAP TYPICAL SECTION STANDARD DETAIL 02423-1.1)
- 12" - #3 EPOXY COATED DOWEL BARS @ 12" O.C. MAX. INTO PRECAST 5'x5'x5' JUNCTION BOX "F-1" & PRECAST 4-WAY INLET
- 8" - #3 EPOXY COATED DOWEL BARS @ 12" O.C. MAX. INTO PRECAST 5'x5'x5' JUNCTION BOX "F-1"



DRAIN "F" BAFFLE BLOCK REINFORCEMENT DETAIL
(N.T.S.)



4-WAY INLET OVER PRECAST BOX CULVERT
N.T.S.

LEGEND:

- PROPOSED CULVERT

NOTES:

- ALL CONCRETE LINING SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI IN 28 DAYS
- 95% OF CHANNEL SURFACE MUST HAVE ESTABLISHED VEGETATION PRIOR TO ACCEPTANCE OF THE CHANNEL BY THE CITY OF BOERNE. HYDROMULCH PAY ITEM TO INCLUDE SOIL, SEEDING, OR SODDING & WATERING FOR THE TIME PERIOD NEEDED TO ACHIEVE 85% VEGETATION.
- REFERENCE CITY OF BOERNE CONCRETE RIP-RAP TYPICAL SECTION DETAIL ON THIS SHEET
- PER THE CITY OF BOERNE DEVELOPMENT AGREEMENT, EARTHEN CHANNELS MUST BE SOD LINED WHERE VELOCITIES OF STORM WATER RUNOFF ARE 3 - 6 FPS.

GABION STYLE ROCK EROSION CONTROL MATRESS DETAIL

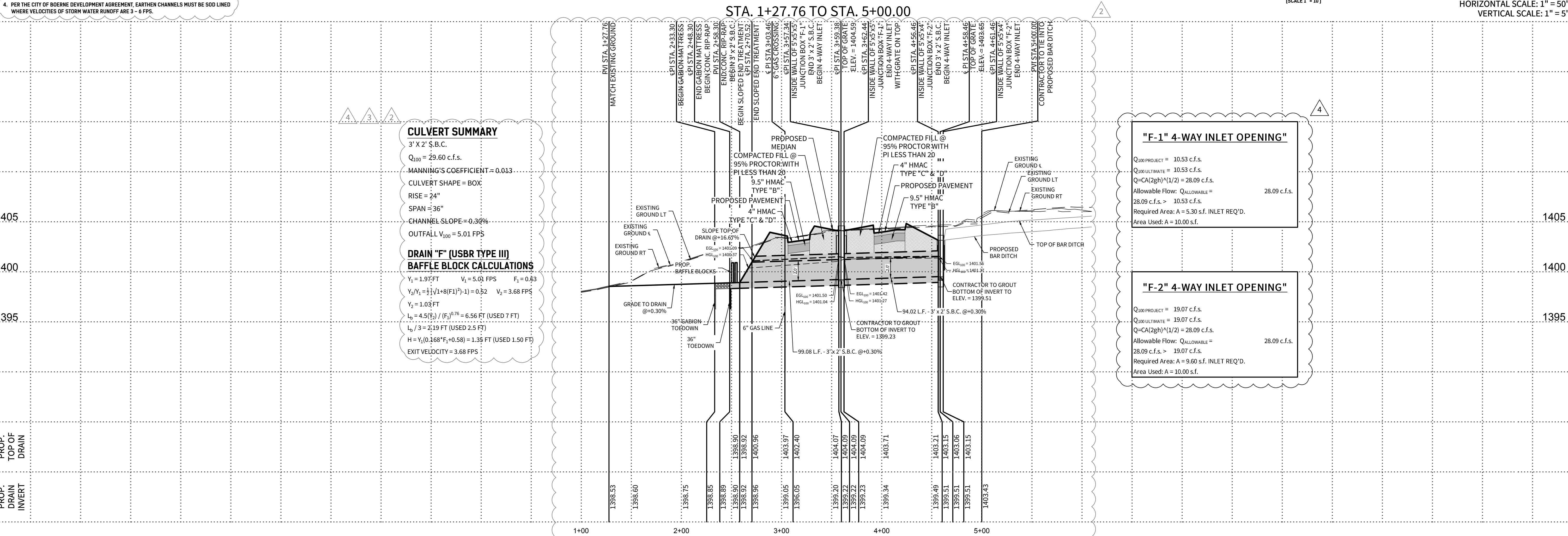
NOTE: GABION MATRESS TO BE FREE OF GEO-TEXTILE FABRIC LINING.
(N.T.S.)

CULVERT SUMMARY

3' X 2' S.B.C.
 $Q_{100} = 29.60$ c.f.s.
MANNING'S COEFFICIENT = 0.013
CULVERT SHAPE = BOX
RISE = 24"
SPAN = 36"
CHANNEL SLOPE = 0.30%
OUTFALL $V_{100} = 5.01$ FPS

DRAIN "F" (USBR TYPE III) BAFFLE BLOCK CALCULATIONS

$Y_1 = 1.97$ FT $V_1 = 5.01$ FPS $F_1 = 0.63$
 $Y_2/Y_1 = \frac{1}{2} \left(\sqrt{1 + 8(F_1^2)} - 1 \right) = 0.32$ $V_2 = 3.68$ FPS
 $Y_2 = 1.03$ FT
 $L_b = 4.5 \left(\frac{Y_1}{F_1} \right) / (F_1)^{1/2} = 6.56$ FT (USED 7 FT)
 $L_b / 3 = 2.19$ FT (USED 2.5 FT)
 $H = V_1(0.168 F_1 + 0.58) = 1.35$ FT (USED 1.50 FT)
EXIT VELOCITY = 3.68 FPS

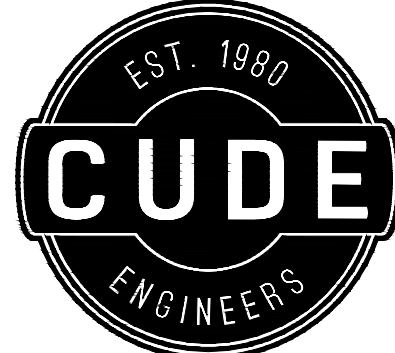


"F-1" 4-WAY INLET OPENING

$Q_{100 \text{ PROJECT}} = 10.53$ c.f.s.
 $Q_{100 \text{ ULTIMATE}} = 10.53$ c.f.s.
 $Q = CA(2gh)^{1/2} = 28.09$ c.f.s.
Allowable Flow: $Q_{\text{ALLOWABLE}} = 28.09$ c.f.s. > 10.53 c.f.s.
Required Area: $A = 5.30$ s.f. INLET REQ'D.
Area Used: $A = 10.00$ s.f.

"F-2" 4-WAY INLET OPENING

$Q_{100 \text{ PROJECT}} = 19.07$ c.f.s.
 $Q_{100 \text{ ULTIMATE}} = 19.07$ c.f.s.
 $Q = CA(2gh)^{1/2} = 28.09$ c.f.s.
Allowable Flow: $Q_{\text{ALLOWABLE}} = 28.09$ c.f.s. > 19.07 c.f.s.
Required Area: $A = 9.60$ s.f. INLET REQ'D.
Area Used: $A = 10.00$ s.f.



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San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

CORLEY FARMS UNIT 1

DRAIN "F" PLAN AND PROFILE

DATE

09/13/2023

PROJECT NO.

03481.004

DRAWN BY

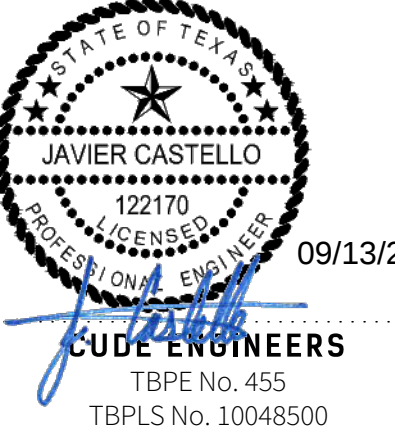
C3

CHECKED BY

XV/JC/DDC

REVISIONS

- 2023-04-26 - ADDED BAFFLE BLOCKS, REVISED NOTES.
- 2023-06-01 - UPDATED BOX CULVERT DIMENSIONS, UPDATED PAVEMENT DESIGN.
- 2023-10-07 - CITY OF BOERNE COMMENTS
- 2023-11-12 - ADDED STREET NAMES, REVISED GABION DETAIL, UPDATED BAFFLE BLOCK CALCULATIONS.



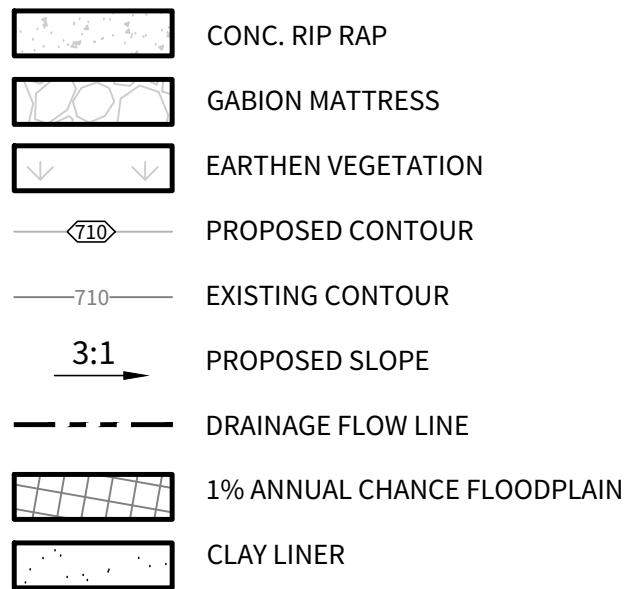
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C26

KEYNOTES:

- 1 PROPOSED ACCESS DRIVEWAY TO BE CONSTRUCTED WITH INFRASTRUCTURE

LEGEND



SCALE: 1"=30'

GENERAL NOTES:

THE DETENTION POND FACILITY SHALL ALSO BE USED AS A TEMPORARY SEDIMENT TRAP FOR THE PURPOSES OF THE TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM CONSTRUCTION PERMIT FOR THIS SITE. THE CONTRACTOR SHALL CLEAN ALL SEDIMENT OUT OF THE DETENTION FACILITY UPON FINAL STABILIZATION OF THE SITE.

CONTRACTOR TO HYDROMULCH ENTIRE DISTURBED LIMITS OF EARTHEN PORTION OF POND. 85% OF POND SURFACE MUST HAVE ESTABLISHED VEGETATION PRIOR TO ACCEPTANCE BY THE CITY OF BOERNE & THE DISTRICT.

THE CONTRACTOR SHALL NOTIFY A UTILITY LOCATOR AT LEAST 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION ACTIVITY ADJACENT TO THE CONSTRUCTION OF ANY ON-SITE DRAINAGE FACILITIES TO PROTECT ANY UNIDENTIFIED EXISTING UNDERGROUND UTILITY FACILITY FROM DAMAGE OR HARM. THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR ANY DAMAGES TO UTILITIES AS A RESULT OF NOT LOCATING UNDERGROUND UTILITY RESOURCES.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SUBDIVISION ORDINANCE OF THE CITY OF BOERNE, TEXAS.

ANY AREAS EXPOSED TO HIGH VELOCITY FLOWS SHALL EITHER HAVE A 6" THICK ROCK GABION MATTRESS INSTALLED OR THE INSTALLATION OF APPROPRIATE GEOTECHNICAL LINER AS DIRECTED BY THE CONSTRUCTION ENGINEER IN CHARGE.

ALL CONCRETE SHALL BE A MINIMUM OF 4000 PSI @ 28 DAYS COMPRESSIVE STRENGTH UNLESS OTHERWISE SPECIFIED HEREIN ON THESE DOCUMENTS.

THE OWNER SHALL SPECIFY THE USE OF EITHER A CHAINLINK FENCE OR A WOODEN PRIVACY FENCE. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO INSTALLATION AND CONSTRUCTION.

POND Downstream Impact Summary				
Comparison at Vallerie Lane				
2 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	120.3	42.8	77.5	
Water Surface Elev (ft)	1419.77	1419.51	0.26	
Velocity (ft/s)	2.77	2.15	0.62	
5 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	190.5	111.6	78.9	
Water Surface Elev (ft)	1419.93	1419.75	0.18	
Velocity (ft/s)	3.10	2.72	0.38	
10 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	257.8	199.4	58.4	
Water Surface Elev (ft)	1420.04	1419.95	0.09	
Velocity (ft/s)	3.36	3.14	0.22	
25 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	364.3	343.7	20.6	
Water Surface Elev (ft)	1420.19	1420.17	0.02	
Velocity (ft/s)	3.68	3.63	0.05	
50 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	456.5	449.4	7.1	
Water Surface Elev (ft)	1420.30	1420.30	0.00	
Velocity (ft/s)	3.91	3.89	0.02	
100 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	557.2	555.2	2.0	
Water Surface Elev (ft)	1420.41	1420.41	0.00	
Velocity (ft/s)	4.12	4.11	0.01	

Note: Post-development discharge rates above account for northeast detention pond. Results derived from element 2_OUTFALL02 in HEC-HMS model

POND Downstream Impact Summary				
Comparison at Scenic Loop Road				
2 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	519.1	457.9	61.2	
Water Surface Elev (ft)	1396.82	1396.76	0.06	
Velocity (ft/s)	2.81	2.70	0.11	
5 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	796	700.9	95.1	
Water Surface Elev (ft)	1397.05	1396.98	0.07	
Velocity (ft/s)	3.23	3.10	0.13	
10 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	1075.1	952.6	122.5	
Water Surface Elev (ft)	1397.25	1397.17	0.08	
Velocity (ft/s)	3.56	3.42	0.14	
25 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	1528.1	1423.4	104.7	
Water Surface Elev (ft)	1397.52	1397.47	0.05	
Velocity (ft/s)	3.96	3.88	0.08	
50 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	1924.5	1838.2	86.3	
Water Surface Elev (ft)	1397.73	1397.69	0.04	
Velocity (ft/s)	4.25	4.19	0.06	
100 YR Storm Event	Pre-Development	Post-Development	Reduction	
Peak Discharge (cfs)	2363.7	2304.2	59.5	
Water Surface Elev (ft)	1397.94	1397.91	0.03	
Velocity (ft/s)	4.51	4.48	0.03	

Note: Post-development discharge rates above account for northeast detention pond. Results derived from element 2_SCENIC LOOP RD in HEC-HMS model

GENERAL NOTES:

- A 6 FOOT HIGH FENCE (WOOD, CHAINLINK, OR OTHER DECORATIVE FENCE AS SPECIFIED BY THE OWNER OR BY RESTRICTIVE COVENANT) SHALL BE INSTALLED AT THE TOP OF THE WATER QUALITY BASIN ALONG ALL SIDES. AT THE LOCATION OF THE 12" WIDE (MIN) MAINTENANCE RAMP, A DOUBLE SWING GATE WITH MINIMUM OPEN WIDTH OF 12", PER SUBDIVISION ORDINANCE 3.04.005(C), WITH LOCK SHALL BE PROVIDED TO ALLOW ACCESS TO THE WATER QUALITY POND.
- ALL CONCRETE SHALL BE 4000 PSI COMPRESSIVE STRENGTH AFTER 28 DAYS OR GREATER.
- ALL REBAR SPLICES AND LAPS SHALL BE A MINIMUM OF 40 BAR DIAMETERS UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL ALERT ENGINEER FOR FIELD OBSERVATION A MIN. OF 24 HOURS PRIOR TO EACH OF THE FOLLOWING EVENTS; DRAIN PIPE INSTALLATION COMPLETION, AND ANY CONCRETE POURS. THE CONTRACTOR SHALL ALSO PROVIDE A MATERIAL SUBMITTAL TO THE ENGINEER FOR REVIEW ON THE FOLLOWING MATERIALS; PERMEABLE GEOTEXTILE FABRIC, CLAY LINER.
- CONTRACTOR SHALL INSTALL AND ESTABLISH 85% VEGETATION IN BASIN PER BASIN DETAIL SHEET PRIOR TO SITE CLOSEOUT.
- UPON COMPLETION OF CONSTRUCTION, AND IN ACCORDANCE WITH TCEQ REGULATIONS, ALL PERMANENT BMP'S (FILTERSTRIPS AND BASIN) MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
- ALL AREAS DISTURBED AS PART OF CONSTRUCTION OF BASIN SHALL BE REVEGETATED PRIOR TO COMPLETION.
- UPON COMPLETION OF CONSTRUCTION, AND IN ACCORDANCE WITH TCEQ REGULATIONS, ALL PERMANENT BMP'S MUST BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
- ALL AREAS DISTURBED AS PART OF CONSTRUCTION OF BASIN SHALL BE REVEGETATED PRIOR TO COMPLETION.
- BASIN DRAWDOWN IS CONTROLLED BY THE 8" PVC PIPE. BASIN DRAWN DOWN WILL OCCUR IN APPROXIMATELY 24 HOURS.
- CONTRACTOR TO SET THE VALVE POSITION TO FULLY OPEN.
- CLAY SUBGRADE CONDITIONS ONSITE TODAY. DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE GEOTECH ENGINEER OF RECORD AND CIVIL ENGINEER TO DETERMINE IF EXISTING CLAY SUBGRADE IS SUITABLE IN LIEU OF NEW CLAY PLACEMENT.
- CONTRACTOR IS REQUIRED ELECTRICAL PLANS/SPECIFICATIONS FOR REVIEW BY CIVIL ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- REFER TO STORMWATER MANAGEMENT PLAN INFORMATION REGARDING DETENTION STAGE AND MITIGATION OF 5-YR, 25 YEAR AND 100 YEAR PEAK STORM EVENTS. UPPER LEVEL WEIRS (ABOVE THE DESIGN WATER SURFACE ELEVATION OF 1124') FOR MITIGATION OF THESE STORM EVENT WILL BE FINALIZED WITH THE CIVIL PLANS.

POND Outfall Structure Details:

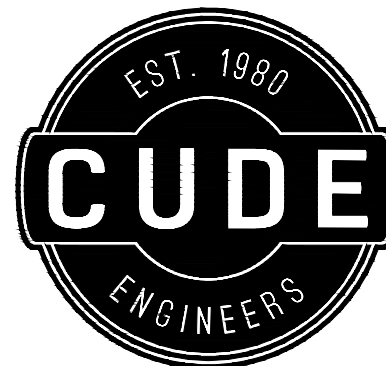
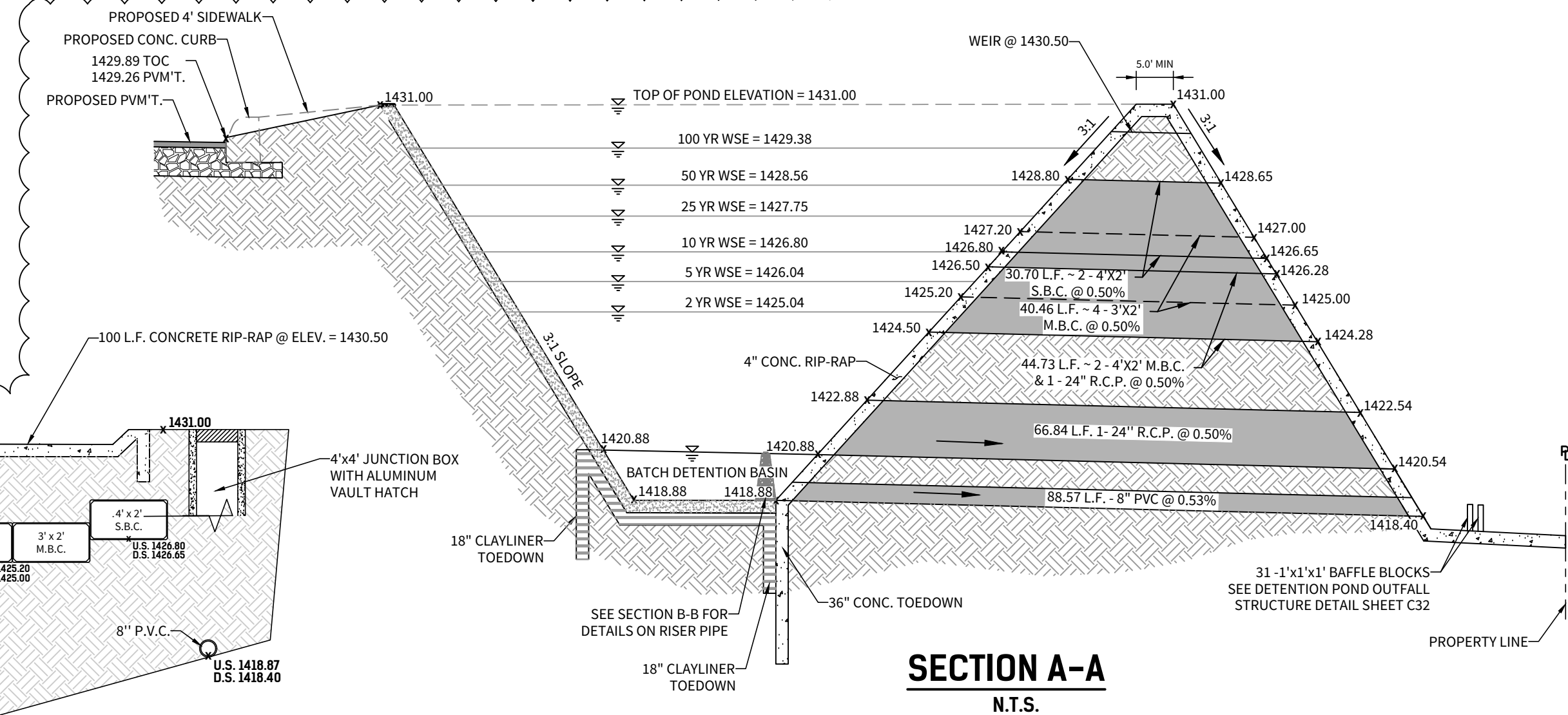
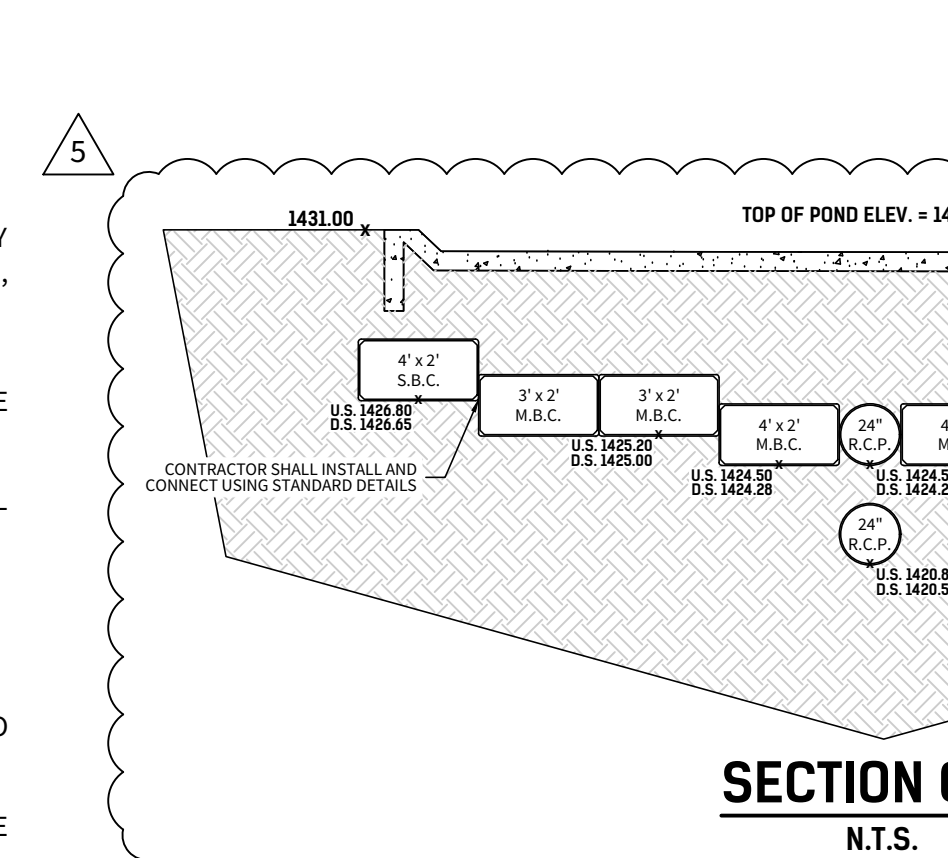
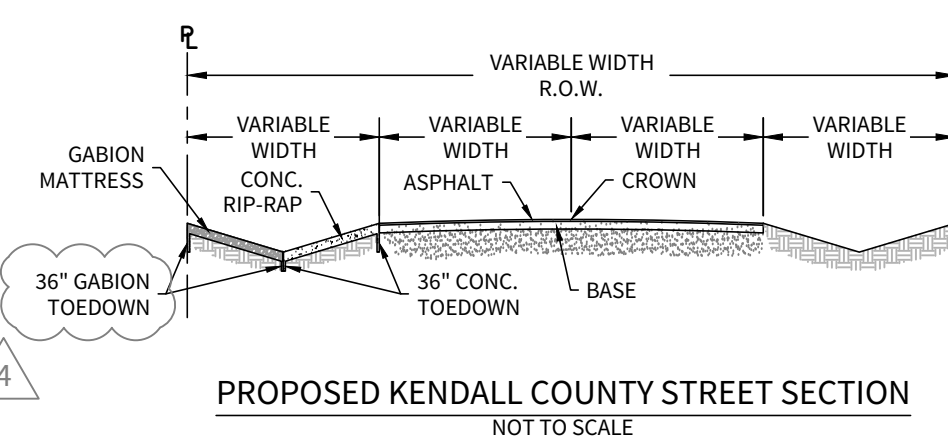
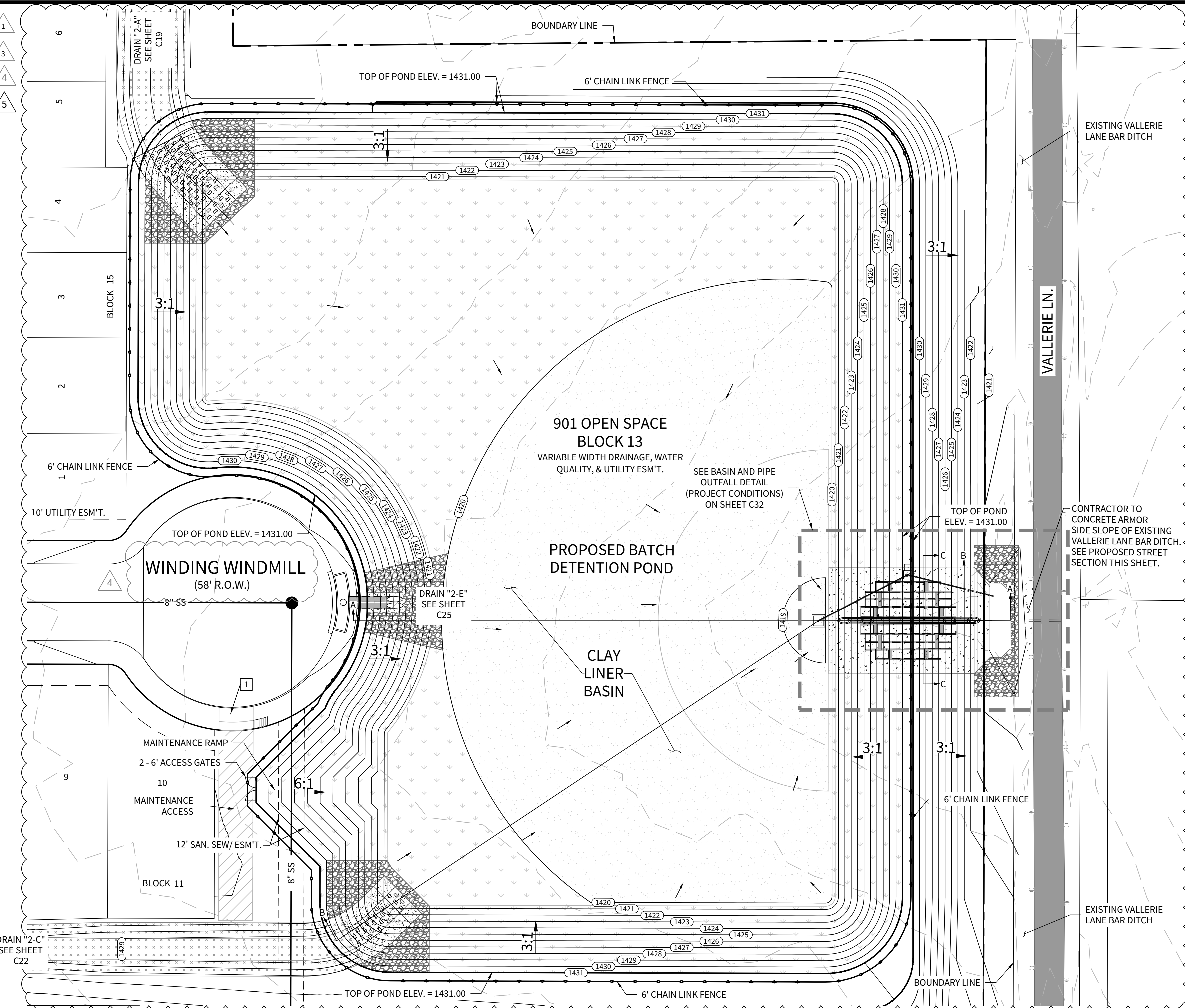
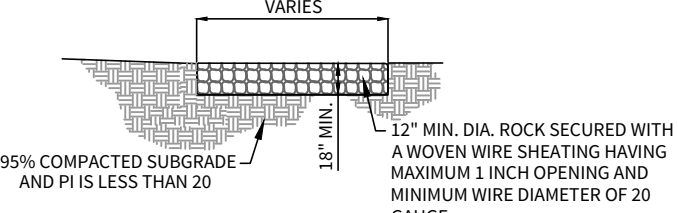
66.84 LF of 1 - 24" RCP @ 0.50%	US Invert: 1420.88	DS Invert: 1420.54
44.73 LF of 2 - 4' x 2' MBC @ 0.50%	US Invert: 1424.50	DS Invert: 1424.28
44.73 LF of 1 - 24" RCP @ 0.50%	US Invert: 1424.50	DS Invert: 1424.28
40.46 LF of 4 - 3' x 2' MBC @ 0.50%	US Invert: 1425.20	DS Invert: 1425.00
30.70 LF of 2 - 4' x 2' SBC @ 0.50%	US Invert: 1426.80	DS Invert: 1426.65

POND Characteristics Table:

2 YR Storm Event				
Pond Inflow:	201.0	CFS		
Pond Discharge:	35.5	CFS		
Maximum Pond WSE:	1425.04	FT	5.96	FT from top of pond
Storage Provided:	10.07	AC-FT		
5 YR Storm Event				
Pond Inflow:	289.5	CFS		
Pond Discharge:	98.7	CFS		
Maximum Pond WSE:	1426.04	FT	4.96	FT from top of pond
Storage Provided:	12.35	AC-FT		
10 YR Storm Event				
Pond Inflow:	376.8	CFS		
Pond Discharge:	177.0	CFS		
Maximum Pond WSE:	1426.80	FT	4.2	FT from top of pond
Storage Provided:	14.14	AC-FT		
25 YR Storm Event				
Pond Inflow:	511.5	CFS		
Pond Discharge:	301.1	CFS		
Maximum Pond WSE:	1427.75	FT	3.25	FT from top of pond
Storage Provided:	16.45	AC-FT		
50 YR Storm Event				
Pond Inflow:	631.9	CFS		
Pond Discharge:	396.7	CFS		
Maximum Pond WSE:	1428.56	FT	2.44	FT from top of pond
Storage Provided:	18.50	AC-FT		
100 YR Storm Event				
Pond Inflow:	761.8	CFS		
Pond Discharge:	491.6	CFS		
Maximum Pond WSE:	1429.38	FT	1.62	FT from top of pond
Storage Provided:	20.65	AC-FT		

GABION STYLE ROCK EROSION CONTROL MATTRESS DETAIL

NOTE: GABION MATTRESS TO BE FREE OF GEO-TEXTILE FABRIC LINING AT DETENTION POND OUTFALL.
(N.T.S.)



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

CORLEY FARMS UNIT 2

BATCH DETENTION POND PLAN - NORTHEAST POND

DATE

09/13/2023

PROJECT NO.

03481.005

DRAWN BY

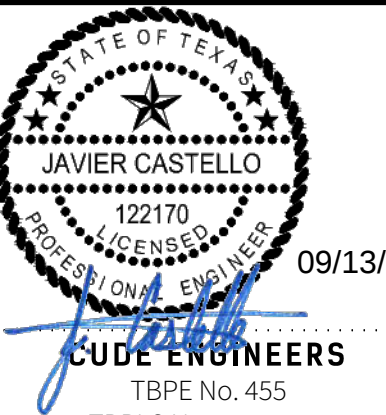
C3

CHECKED BY

XV/JC/DDC

REVISIONS

- 21/7/15 - DETENTION POND OUTFALL STRUCTURE
1. DETAIL ADDED PER WORKING COMMENTS
-
- 2021-10-07 - CITY OF BOERNE COMMENTS
- 2021-11-12 - CITY OF BOERNE COMMENTS
- 2021-11-12 - CITY OF BOERNE COMMENTS
-
-
-
-
-



CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

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