



April 25, 2025

Mr. Otis Spriggs
Director of Development Services
City of Angleton
121 S. Velasco
Angleton, TX 77515

Re: On-Going Services
Austin Colony Phase 1B Subdivision Improvement Plans – 1st Submittal Review
Angleton, Texas
HDR Job No. 10420700

Dear Mr. Spriggs:

HDR Engineering, Inc. (HDR) has reviewed the plans for the above referenced subdivision and offers the following comments:

Final Plat

1. A temporary turnaround area will be required in accordance to Angleton LDC Sec. 23-12.
- Streets and driveways, G.2.B.

Subdivision Improvement Plans

1. Reference if this is Final Plat. If Final Plat, will need to note as reference only with a Final Plat application to be made separately.
2. Sheet 5 of 50 - Phase 1b only includes 1 boring location as noted in the geotech report by Intertek PSI dated 3/28/21. Verify and include additional borings per spacing found in the Angleton Construction Manual (CoSL Design Manual 1.21)
3. Sheet 6 of 50 - Street jogs (off-sets). Street off-sets less than 150 feet, measured centerline to centerline, are prohibited (Angleton LDC Sec. 23-12 F.4.
4. Sheet 6 of 50 - No proposed information shown in Sections
5. Sheet 7 of 50 - Fire hydrant placement/spacing to include intersections as noted in the Angleton ACM - CoSL Des. Std. 2.8.1 Fire Hydrant Spacing, C.
6. Sheet 7 of 50 - Label existing utilities and sizes
7. Sheet 8 of 50 - Please include the cross sections for the proposed pond as noted
8. Sheet 9 of 50 - Are these wall penetrations feasible at the inlets noted (I-10, I-5)
9. Sheet 9 of 50 - Recommend updating to provide an alignment to avoid traversing pipe in the ROW.
10. Sheet 11 of 50 - Information is missing on the plan. Please update accordingly
11. Sheet 12 of 50 - Update plan to show location of silt fencing for the project

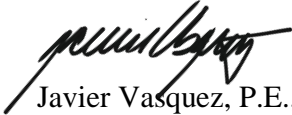
12. Sheet 12 of 50 - Verify use of IPB here if construction vehicles and equipment will utilize access from this area
13. Sheet 14 of 50 - If Phase 1b is being constructed first, a temporary No Outlet Sign shall be provided
14. Sheet 14 of 50 - Striping and signage to be provided for beginning of boulevard section (e.g. gores, median ahead, do not enter,
15. Sheet 16 of 50 - Verify and incorporate use of a pedestrian handrail along the culvert crossing area
16. Sheet 16 of 50 - Provide junction box at this location or consider other option such as discharge to south
17. Sheet 16 of 50 - Provide steel encasement for proposed sanitary sewer crossing under existing channel
18. Sheet 16 of 50 - Reevaluate proposed water line offset and include steel casing for portion crossing within the culvert/channel crossing. Proposed pipe does not meet minimum cover requirements.
19. Sheet 16 of 50 - Evaluate proposed water line (10"-12") for incorporation of air release valves
20. Sheet 16 of 50 - Verify what the purpose of the bends are here near STA. 0+60 and remove if not needed.
21. Sheet 16 of 50 - Street gradient is less than 0.35 %
22. Sheet 16 of 50 - Provide symbol for sanitary sewer service (Typical)
23. Sheet 17 of 50 - Show existing ditch highbank and flowline in plan
24. Sheet 18 of 50 - Revise sewer layout to offset from proposed water meter (Example shown)
25. Sheet 18 of 50 - Sanitary sewer minimum size to be 8-inch
26. Sheet 18 of 50 - Street gradient is less than 0.35 % where noted.
27. Sheet 19 of 50 - Fix overlapping text
28. Sheet 19 of 50 - Place valves outside of curb ramp
29. Sheet 19 of 50 - Verify if proposed inlet will allow for all pipe-wall penetrations shown may need to consider a junction box where noted by example
30. Sheet 19 of 50 - Street gradient is less than 0.35%
31. Sheet 19 of 50 - Notate gradient of curb returns
32. Sheet 19 of 50 - Minimum sanitary sewer pipe size to be 8-inch
33. Sheet 20 of 50 - A temporary turnaround and easement to be provided at the end of Moses Austin Street. Angleton LDC Sec. 23-12 G.2.
34. Sheet 20 of 50 - Street gradient is less than 0.35%
35. Sheet 20 of 50 - Sanitary sewer service graphic to follow direction of flow if intended to depict this graphically for single services (Typical)
36. Sheet 21 of 50 - Street gradient is less than 0.35 % where noted
37. Sheet 21 of 50 - Place valves outside of curb ramp where noted

The proposed construction plans are incomplete. We are unable to complete the review until the recommended corrections/changes are made and the additional information requested is submitted. HDR recommends that the Austin Colony Phase 1B Subdivision Improvement Plans be Revised and Resubmitted.

If you have any questions, please feel free to contact us at our office (713)-622-9264.

Sincerely,

HDR Engineering, Inc.

A handwritten signature in black ink, appearing to read 'Javier Vasquez', is written over the printed name.

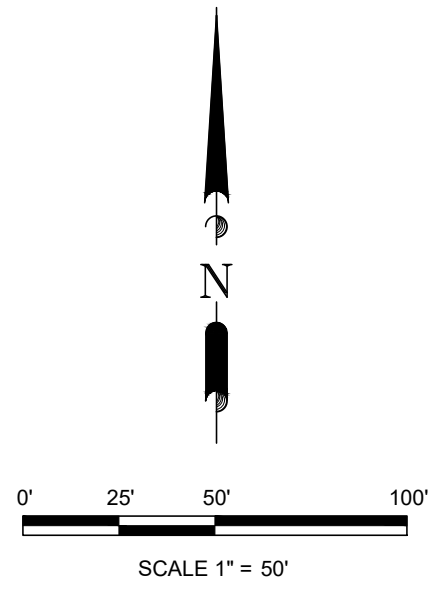
Javier Vasquez, P.E., CFM
Civil Engineer

cc: Files (10420700)

Attachments

BRAZORIA COUNTY, TEXAS

JOSE DE JESUS VALDERAS SURVEY
ABSTRACT 380



LEGEND

O.P.R.B.C.T. = OFFICIAL PUBLIC RECORDS
BRAZORIA COUNTY, TEXAS
D.R.B.C.T. = DEED RECORDS BRAZORIA
COUNTY, TEXAS
P.R.B.C.T. = PLAT RECORDS BRAZORIA
COUNTY, TEXAS
C.C.F.N. = COUNTY CLERK'S
FILE NUMBER
VOL. PG. = VOLUME, PAGE
P.O.B. = POINT OF BEGINNING
U.E. = UTILITY EASEMENT
D.E. = DRAINAGE EASEMENT
B.L. = BUILDING LINE
R.O.W. = RIGHT-OF-WAY
I.R. = IRON ROD
I.R.C. = IRON ROD W/CAP
I.P. = IRON PIPE
O = 5/8" I.R.C. SET
"BAKER & LAWSON"
= FOUND MONUMENT
(AS NOTED)
• = BM

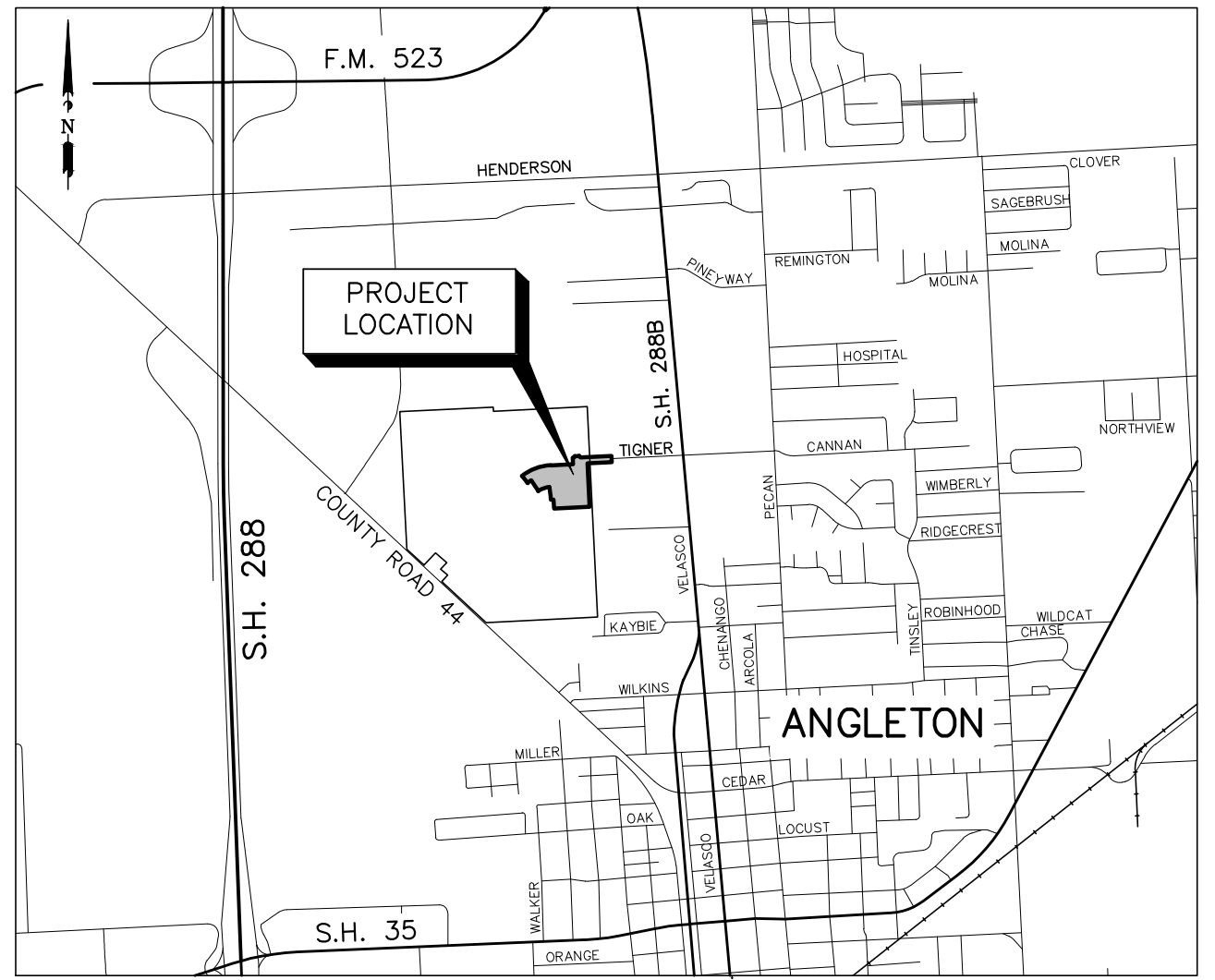
TEJAS-ANGLETON
DEVELOPMENT, LLC
CALLED 164.50 ACRES
C.C.F.N. 2021067765
O.P.R.B.C.T.

NEW YORK AND TEXAS
LAND COMPANY SUBDIVISION
VOL. 25 PG. 140
D.R.B.C.T.

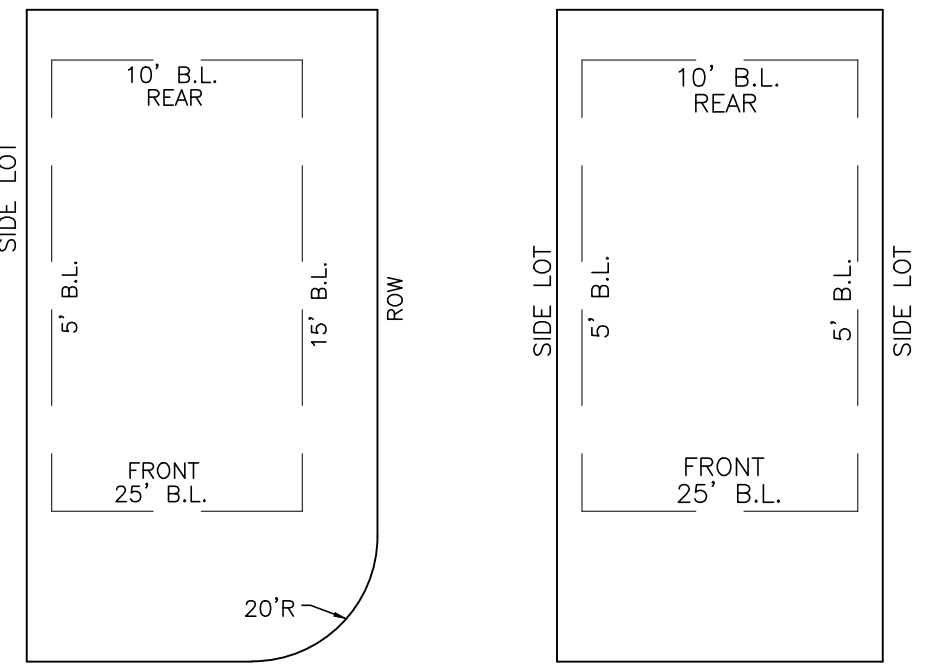
TEJAS-ANGLETON
DEVELOPMENT, LLC
CALLED 3.570 ACRES
C.C.F.N. 2021067765
O.P.R.B.C.T.

TIGNER ST.
60' R.O.W.
VOL. 26 PG. 140
P.R.B.C.T.

TEJAS-ANGLETON DEVELOPMENT, LLC
LOT 1
REPLAT OF LOT NO. 1
ANGLETON COMMERCIAL
SUBDIVISION NO. 1
C.C.F.N. 1999035290
O.P.R.B.C.T.
C.C.F.N. 2021067765
O.P.R.B.C.T.



VICINITY MAP



TYPICAL SIDE LOT

TYPICAL INTERIOR LOT

LINE TABLE		
Line No.	Length	Direction
L1	38.35'	S87°07'48"W
L2	60.00'	N03°02'49"W
L3	14.79'	N87°07'40"E
L4	60.00'	N87°07'40"E
L5	65.00'	S02°52'12"E
L6	20.72'	N47°52'33"W

CURVE TABLE					
Curve No.	Length	Radius	Delta	Chord Bearing	Chord Distance
C1	166.39'	400.00'	23°50'03"	S70°03'36"W	165.20'
C2	62.31'	580.00'	6°09'19"	S54°37'14"W	62.28'
C3	437.96'	705.00'	35°35'36"	N69°20'23"E	430.95'
C4	31.41'	20.00'	89°59'49"	N42°07'53"E	28.28'
C5	31.42'	20.00'	90°00'11"	S47°52'07"E	28.29'
C6	78.55'	50.00'	90°00'41"	N42°07'27"E	70.72'
C7	282.12'	550.00'	29°23'23"	N72°26'49"E	279.04'
C8	31.41'	20.00'	89°59'19"	S47°52'33"E	28.28'
C9	31.41'	20.00'	89°59'19"	N72°26'49"E	279.04'
C10	15.50'	20.00'	44°24'55"	N25°05'21"W	15.12'
C11	156.07'	50.00'	178°50'32"	N42°07'27"E	99.99'
C12	15.50'	20.00'	44°24'55"	N70°39'45"W	15.12'
C13	31.42'	20.00'	90°00'41"	S42°07'27"E	28.29'
C14	31.42'	20.00'	90°00'41"	N42°07'27"E	28.29'
C15	31.42'	20.00'	90°00'41"	N42°07'27"E	28.29'
C16	298.06'	580.00'	29°26'37"	S72°25'12"W	294.79'
C17	266.08'	520.00'	29°19'04"	S72°28'16"W	263.19'

BLOCK 1 SECTION 1B		
PARCEL TABLE	LOT NO.	AREA S.F.
1	6,788	1
2	6,250	2
3	6,250	3
4	6,250	4
5	6,250	5
6	6,250	6
7	6,250	7
8	6,250	8
9	6,250	9
10	6,250	10
11	10,743	11
12	6,072	12
13	6,250	13
14	6,250	14
15	6,250	15
16	6,250	16
17	6,250	17
18	6,246	18

BLOCK 2 SECTION 1B		
PARCEL TABLE	LOT NO.	AREA S.F.
1	6,699	1
2	6,699	2
3	6,699	3
4	6,699	4
5	6,699	5
6	6,699	6
7	6,699	7
8	6,425	8
9	6,250	9
10	8,311	10
11	6,250	11
12	6,250	12
13	6,250	13
14	6,704	14
15	6,000	15
16	6,000	16
17	6,000	17
18	6,903	18

BLOCK 3 SECTION 1B		
PARCEL TABLE	LOT NO.	AREA S.F.
1	6,274	1
2	6,276	2
3	6,276	3
4	6,323	4
5	6,259	5
6	6,000	6
7	6,000	7
8	6,000	8
9	6,000	9
10	6,000	10
11	6,520	11
12	6,522	12
13	6,000	13
14	6,000	14
15	6,000	15
16	6,000	16
17	6,000	17
18	6,903	18

RESERVE TABLE			
SYMBOL	DESCRIPTION	RESERVE USE	AREA
(A)	RESTRICTED RESERVE "A"	RESTRICTED TO UTILITY & DRAINAGE USE	0.056 AC.
(B)	RESTRICTED RESERVE "B"	RESTRICTED TO UTILITY & DRAINAGE USE	0.630 AC.

SHEET 1 OF 2

FINAL PLAT
AUSTIN COLONY
SECTION 1B

BEING 10.680 ACRES
50 LOTS 3 BLOCKS 2 RESERVES
SUBDIVISION

BEING A PORTION OF
A CALLED 164.50 ACRE TRACT
C.C.F.N. 2021067765
O.P.R.B.C.T.

JOSE DE JESUS VALDERAS SURVEY
ABSTRACT NO. 380
CITY OF ANGLETON
BRAZORIA COUNTY, TEXAS



4005 Technology Drive, Suite 1530
Angleton, TX 77515
OFFICE: (979) 849-6681
TBPLS No. 10052500
REG. NO. F-825

OWNER:
WAYNE L. "SANDY" REA, II
TEJAS VIEJO LAND COMPANY
5454 NEWCASTLE DRIVE
UNIT 1101
HOUSTON, TX 77081

PROJECT NO.: 16182	SCALE: 1" = 50'	DRAWN BY: BT
DRAWING NO.: 16182 PLAT SEC 1B FINAL.DWG	DATE: 3/4/2025	CHECKED BY: DH

PLANNING AND ZONING COMMISSION AND CITY COUNCIL:

APPROVED THIS _____ DAY OF _____, 20____, BY THE PLANNING AND ZONING COMMISSION, CITY OF ANGLETON, TEXAS.

BILL GARWOOD, CHAIRMAN, PLANNING AND ZONING COMMISSION

MICHELLE PEREZ, CITY SECRETARY

APPROVED THIS _____ DAY OF _____, 20____, BY THE CITY COUNCIL, CITY OF ANGLETON, TEXAS.

JOHN WRIGHT, MAYOR

MICHELLE PEREZ, CITY SECRETARY

STATE OF TEXAS §
COUNTY OF BRAZORIA §

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THE _____ DAY OF _____, 20____, BY _____, CITY OF ANGLETON, ON BEHALF OF THE CITY.

NOTARY PUBLIC STATE OF TEXAS

MY COMMISSION EXPIRES

DRAINAGE AND DETENTION EASEMENT

THIS PLAT IS HEREBY ADOPTED BY THE OWNERS AND APPROVED BY THE CITY OF ANGLETON (CALLED "CITY") SUBJECT TO THE FOLLOWING CONDITIONS WHICH SHALL BE BINDING UPON THE OWNERS, THEIR HEIRS, GRANTEES AND SUCCESSORS: THE PORTION SHOWN ON THE PLAT IS CALLED "DRAINAGE AND DETENTION EASEMENT;" THE DRAINAGE AND DETENTION EASEMENT WITHIN THE LIMITS OF THIS ADDITION, WILL REMAIN OPEN AT ALL TIMES AND WILL BE MAINTAINED IN A SAFE AND SANITARY CONDITION BY THE OWNERS OF THE LOT OR LOTS THAT ARE TRAVERSED BY OR ADJACENT TO THE DRAINAGE AND DETENTION EASEMENT; THE CITY WILL NOT BE RESPONSIBLE FOR THE MAINTENANCE AND OPERATION OF SAID EASEMENT OR FOR ANY DAMAGE TO PRIVATE PROPERTY OR PERSON THAT RESULTS FROM CONDITIONS IN THE EASEMENT, OR FOR THE CONTROL OF EROSION; NO OBSTRUCTION TO THE NATURAL FLOW OF STORMWATER RUN-OFF SHALL BE PERMITTED BY CONSTRUCTION OF ANY TYPE OF BUILDING, FENCE, OR ANY OTHER STRUCTURE WITHIN THE DRAINAGE AND DETENTION EASEMENT AS HEREIN ABOVE DEFINED, UNLESS APPROVED BY THE CITY ENGINEER; PROVIDED, HOWEVER, IT IS UNDERSTOOD THAT IN THE EVENT IT BECOMES NECESSARY FOR THE CITY TO ERECT OR CONSIDER ERECTING ANY TYPE OF DRAINAGE STRUCTURE IN ORDER TO IMPROVE THE STORM DRAINAGE THAT MAY BE OCCASIONED BY THE CITY SHALL HAVE THE RIGHT TO ENTER UPON THE DRAINAGE AND DETENTION EASEMENT AT ANY POINT, OR POINTS, TO INVESTIGATE, SURVEY OR TO ERECT, CONSTRUCT AND MAINTAIN ANY DRAINAGE FACILITY DEEMED NECESSARY FOR DRAINAGE PURPOSES. EACH PROPERTY OWNER SHALL KEEP THE DRAINAGE AND DETENTION EASEMENT CLEAN AND FREE OF DEBRIS, SILT, AND ANY SUBSTANCE WHICH WOULD RESULT IN UNSANITARY CONDITIONS OR OBSTRUCT THE FLOW OF WATER; AND THE CITY SHALL HAVE THE RIGHT OF INGRESS AND EGRESS FOR THE PURPOSE OF INSPECTION AND SUPERVISION OF MAINTENANCE WORK BY THE PROPERTY OWNER TO ALLEVIATE ANY UNDESIRABLE CONDITIONS WHICH MAY OCCUR; THE NATURAL DRAINAGE THROUGH THE DRAINAGE AND DETENTION EASEMENT IS SUBJECT TO STORM WATER OVERFLOW AND NATURAL BANK EROSION TO AN EXTENT WHICH CANNOT BE DEFINITELY DEFINED. THE CITY SHALL NOT BE HELD LIABLE FOR ANY DAMAGES OF ANY NATURE RESULTING FROM THE OCCURRENCE OF THESE NATURAL PHENOMENA, OR RESULTING FROM THE FAILURE OF ANY STRUCTURE, OR STRUCTURES, WITHIN THE EASEMENT.

ANGLETON DRAINAGE DISTRICT

ACCEPTED THIS THE _____ DAY OF _____, 20____, BY THE ANGLETON DRAINAGE DISTRICT.

THE BOARD OF SUPERVISORS OF THE ANGLETON DRAINAGE DISTRICT DOES NOT WARRANT, REPRESENT OR GUARANTEE:

- THAT DRAINAGE FACILITIES OUTSIDE THE BOUNDARIES OF THE SUBDIVISION PLAT ARE AVAILABLE TO RECEIVE RUNOFF FROM THE FACILITIES DESCRIBED IN THIS PLAT.
- THAT DRAINAGE FACILITIES DESCRIBED IN THIS PLAT ARE ADEQUATE FOR RAINFALL IN EXCESS OF ANGLETON DRAINAGE DISTRICT MINIMUM REQUIREMENTS.
- THAT BUILDING ELEVATION REQUIREMENTS HAVE BEEN DETERMINED BY THE ANGLETON DRAINAGE DISTRICT.
- THAT THE DISTRICT ASSUMES ANY RESPONSIBILITY FOR CONSTRUCTION, OPERATION OR MAINTENANCE OF SUBDIVISION DRAINAGE FACILITIES.

THE DISTRICT'S REVIEW IS BASED SOLELY ON THE DOCUMENTATION SUBMITTED FOR REVIEW, AND ON THE RELIANCE ON THE REPORT SUBMITTED BY THE TEXAS REGISTERED PROFESSIONAL ENGINEER.

THE DISTRICT'S REVIEW IS NOT INTENDED NOR WILL SERVE AS A SUBSTITUTION OF THE OVERALL RESPONSIBILITY AND/OR DECISION MAKING POWER OF THE PARTY SUBMITTING THE PLAT OR PLAN HEREIN, THEIR OR ITS PRINCIPALS OR AGENTS.

CHAIRMAN, BOARD OF SUPERVISORS

BOARD MEMBER

BOARD MEMBER

DEDICATION STATEMENT:

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS: THAT WAYNE L. REA II, OF TEXAS VIEJO LAND COMPANY, ACTING HEREIN BY AND THROUGH ITS DULY AUTHORIZED OFFICERS, DOES HEREBY ADOPT THIS PLAT DESIGNATING THE HEREINABOVE DESCRIBED PROPERTY AS AUSTIN COLONY SECTION 1B, A SUBDIVISION IN THE JURISDICTION OF THE CITY OF ANGLETON, TEXAS, AND DOES HEREBY DEDICATE, IN FEE SIMPLE, TO THE PUBLIC USE FOREVER, THE STREETS, ALLEYS AND PUBLIC PARKLAND SHOWN THEREON. THE STREETS, ALLEYS AND PARKLAND ARE DEDICATED FOR STREET PURPOSES. THE EASEMENTS AND PUBLIC USE AREAS, AS SHOWN, ARE DEDICATED FOR THE PUBLIC USE FOREVER, FOR THE PURPOSES INDICATED ON THIS PLAT. NO BUILDINGS, FENCES, TREES, SHRUBS, OR OTHER IMPROVEMENTS OR GROWTHS SHALL BE CONSTRUCTED OR PLACED UPON, OVER, OR ACROSS THE EASEMENTS AS SHOWN, EXCEPT THAT LANDSCAPE IMPROVEMENTS MAY BE PLACED IN LANDSCAPE EASEMENTS, IF APPROVED BY THE CITY OF ANGLETON. IN ADDITION, UTILITY EASEMENTS MAY ALSO BE USED FOR THE MUTUAL USE AND ACCOMMODATION OF ALL PUBLIC UTILITIES DESIRING TO USE OR USING THE SAME UNLESS THE EASEMENT LIMITS THE USE TO PARTICULAR UTILITIES, SAID USE BY PUBLIC UTILITIES BEING SUBORDINATE TO THE PUBLIC'S AND CITY OF ANGLETON'S USE THEREOF. THE CITY OF ANGLETON AND PUBLIC UTILITY ENTITIES SHALL HAVE THE RIGHT TO REMOVE AND KEEP REMOVED ALL OR PARTS OF ANY BUILDINGS, FENCES, TREES, SHRUBS, OR OTHER IMPROVEMENTS OR GROWTHS WHICH MAY IN ANY WAY ENDANGER OR INTERFERE WITH THE CONSTRUCTION, MAINTENANCE, OR EFFICIENCY OF THEIR RESPECTIVE SYSTEMS IN SAID EASEMENTS. THE CITY OF ANGLETON AND PUBLIC UTILITY ENTITIES SHALL AT ALL TIMES HAVE THE FULL RIGHT OF INGRESS AND EGRESS TO OR FROM THEIR RESPECTIVE EASEMENTS FOR THE PURPOSE OF CONSTRUCTING, RECONSTRUCTING, INSPECTING, PATROLLING, MAINTAINING, READING METERS, AND ADDING TO OR REMOVING ALL OR PARTS OF THEIR RESPECTIVE SYSTEMS WITHOUT THE NECESSITY AT ANY TIME OF PROCURING PERMISSION FROM ANYONE.

OWNER'S ACKNOWLEDGEMENT:

STATE OF TEXAS §
COUNTY OF BRAZORIA §

THE OWNER OF LAND SHOWN ON THIS PLAT, IN PERSON OR THROUGH A DULY AUTHORIZED AGENT, DEDICATES TO THE USE OF THE PUBLIC FOREVER ALL STREETS, ALLEYS, PARKS, WATERCOURSES, DRAINS, EASEMENTS AND PUBLIC PLACES THEREON SHOWN FOR THE PURPOSE AND CONSIDERATION THEREIN EXPRESSED.

WAYNE L. REA II

TEJAS VIEJO LAND COMPANY

STATE OF TEXAS §
COUNTY OF BRAZORIA §

BEFORE ME THE UNDERSIGNED AUTHORITY ON THIS DAY PERSONALLY APPEARED WAYNE L. REA II, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT THE SAME WAS THE ACTING OWNER FOR THE PURPOSES AND CONSIDERATION THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS THE _____ DAY OF _____, 20____

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

MY COMMISSION EXPIRES

DESCRIPTION OF 10.680 ACRES

BEING A 10.680 ACRE TRACT OF LAND LOCATED WITHIN THE JOSE DE JESUS VALDERAS SURVEY, ABSTRACT NO. 380, BRAZORIA COUNTY, TEXAS, BEING A PORTION OF A CALLED 164.50 ACRE TRACT IN THE NAME OF TEJAS-ANGLETON DEVELOPMENT, LLC, AS RECORDED IN COUNTY CLERKS FILE NO. (C.C.F.N.) 2021067765 OF THE OFFICIAL PUBLIC RECORDS, BRAZORIA COUNTY, TEXAS (O.P.R.B.C.T.), ALSO BEING A PORTION OF THE NEW YORK AND TEXAS LAND COMPANY SUBDIVISION, AS RECORDED IN VOLUME 26, PAGE 140 OF THE DEED RECORDS, BRAZORIA COUNTY, TEXAS (D.R.B.C.T.), REFERRED TO HEREFTER AS THE ABOVE REFERENCED TRACT OF LAND, SAID 10.680 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS (BEARINGS ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, (NAD83) SOUTH CENTRAL ZONE, PER GPS OBSERVATIONS):

BEGINNING AT A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER, BEING ON THE EAST LINE OF THE ABOVE REFERENCED TRACT, SAME BEING ON THE WEST LINE OF A 60' PLATTED RIGHT-OF-WAY (R.O.W.), AS RECORDED IN VOLUME 26, PAGE 140 OF THE D.R.B.C.T., FROM WHICH A 5/8-INCH IRON ROD WITH CAP STAMPED "BAKER & LAWSON" FOUND AT THE NORTHEAST CORNER OF THE ABOVE REFERENCED TRACT BEARS NORTH 02°52'54" WEST, A DISTANCE OF 915.46 FEET;

THENCE SOUTH 02°52'54" EAST, ALONG THE EAST LINE OF THE ABOVE REFERENCED TRACT, SAME BEING THE WEST LINE OF SAID 60' PLATTED RIGHT-OF-WAY (R.O.W.), A DISTANCE OF 700.00 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE SOUTH 87°07'48" WEST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 548.43 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE NORTH 02°50'24" WEST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 125.00 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE SOUTH 87°07'48" WEST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 38.35 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE NORTH 03°02'49" WEST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 60.00 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE NORTH 08°29'14" WEST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 118.95 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE, OVER AND ACROSS THE ABOVE REFERENCED TRACT, ALONG A CURVE TO THE LEFT AN ARC DISTANCE OF 166.39 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER, SAID CURVE HAVING A RADIUS OF 400.00 FEET, A CENTRAL ANGLE OF 23°50'03", A CHORD WHICH BEARS SOUTH 70°03'36" WEST A DISTANCE OF 165.20 FEET;

THENCE NORTH 33°17'22" WEST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 180.04 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE, OVER AND ACROSS THE ABOVE REFERENCED TRACT, ALONG A CURVE TO THE LEFT AN ARC DISTANCE OF 62.31 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER, SAID CURVE HAVING A RADIUS OF 580.00 FEET, A CENTRAL ANGLE OF 06°09'19", A CHORD WHICH BEARS SOUTH 54°37'14" WEST A DISTANCE OF 62.28 FEET;

THENCE NORTH 38°27'25" WEST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 125.00 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE, OVER AND ACROSS THE ABOVE REFERENCED TRACT, ALONG A CURVE TO THE RIGHT AN ARC DISTANCE OF 437.96 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER, SAID CURVE HAVING A RADIUS OF 705.00 FEET, A CENTRAL ANGLE OF 035°35'36", A CHORD WHICH BEARS NORTH 69°20'23" EAST A DISTANCE OF 430.95 FEET;

THENCE NORTH 87°07'48" EAST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 312.42 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE NORTH 02°52'12" WEST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 90.00 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE NORTH 87°07'48" EAST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 14.79 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE, OVER AND ACROSS THE ABOVE REFERENCED TRACT, ALONG A CURVE TO THE LEFT AN ARC DISTANCE OF 31.41 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER, SAID CURVE HAVING A RADIUS OF 20.00 FEET, A CENTRAL ANGLE OF 89°59'49", A CHORD WHICH BEARS NORTH 42°07'53" EAST A DISTANCE OF 28.28 FEET;

THENCE NORTH 87°07'40" EAST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 60.00 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER;

THENCE, OVER AND ACROSS THE ABOVE REFERENCED TRACT, ALONG A CURVE TO THE LEFT AN ARC DISTANCE OF 31.42 FEET TO A 5/8-INCH IRON ROD WITH CAP, STAMPED "BAKER & LAWSON" SET FOR CORNER, SAID CURVE HAVING A RADIUS OF 20.00 FEET, A CENTRAL ANGLE OF 90°00'11", A CHORD WHICH BEARS SOUTH 47°52'07" EAST A DISTANCE OF 28.29 FEET;

THENCE NORTH 87°07'48" EAST, OVER AND ACROSS THE ABOVE REFERENCED TRACT, A DISTANCE OF 135.19 FEET TO THE POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT OF LAND, AND CONTAINING 10.680 ACRES OF LAND, MORE OR LESS.

NOTES:

- THE PURPOSE OF THIS PLAT IS TO PLAT THE 10.680 ACRE TRACT INTO A 50 LOT, 3 BLOCK 2 RESERVE SUBDIVISION.
- ALL BEARINGS AND DISTANCES ARE REFERENCED TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD-83, U.S. SURVEY FEET.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A COMMITMENT FOR TITLE INSURANCE, WITH REGARD TO ANY RECORDED EASEMENTS, RIGHTS-OF-WAY OR SETBACKS AFFECTING THE SURVEYED PROPERTY. NO ADDITIONAL RESEARCH REGARDING THE EXISTENCE OF EASEMENTS, RESTRICTIONS, OR OTHER MATTERS OF RECORD HAS BEEN PERFORMED BY THE SURVEYOR.
- FLOOD ZONE STATEMENT: THE SURVEYOR NAMED HEREON HAS EXAMINED THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR BRAZORIA COUNTY: MAP NUMBER 48039C0440K, WITH EFFECTIVE DATE OF DECEMBER 30, 2020, AND THAT MAP INDICATES THAT THE PROPERTY SURVEYED IS WITHIN ZONE "X" (UNSHADED), AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD-PLAIN. WARNING: THIS FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES WILL BE FREE FROM FLOODING OR FLOOD DAMAGE, AND WILL NOT CREATE LIABILITY ON THE PART OF THE SURVEYOR.
- SITE BENCHMARK: TEM "A" BOX CUT IN CONCRETE, TOP OF INLET, SOUTH SIDE OF WEST END OF TIGNER ROAD. ELEVATION = 15.00' NAVD1988, REFERENCE BENCHMARK: NGS MONUMENT: TXAG REF MON 1 PID: DR8248, PUBLISHED ELEVATION: 32.0 FEET, TXDOT ANGLETON.
- THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES OR SUBSURFACE CONDITIONS OTHER THAN THOSE SHOWN MAY AFFECT THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHOWN HEREON.
- NOTICE: SELLING A PORTION OF THIS ADDITION BY METES AND BOUNDS IS A VIOLATION OF THE UNIFIED DEVELOPMENT CODE OF THE CITY OF ANGLETON AND STATE PLATTING STATUTES AND IS SUBJECT TO FINES AND WITHHOLDING OF UTILITIES AND BUILDING PERMITS.
- NOTICE: PLAT APPROVAL SHALL NOT BE DEEMED TO OR PRESUMED TO GIVE AUTHORITY TO VIOLATE, NULLIFY, VOID, OR CANCEL ANY PROVISIONS OF LOCAL, STATE, OR FEDERAL LAWS, ORDINANCES, OR CODES.
- NOTICE: THE APPLICANT IS RESPONSIBLE FOR SECURING ANY FEDERAL PERMITS THAT MAY BE NECESSARY AS THE RESULT OF PROPOSED DEVELOPMENT ACTIVITY. THE CITY OF ANGLETON IS NOT RESPONSIBLE FOR DETERMINING THE NEED FOR, OR ENSURING COMPLIANCE WITH ANY FEDERAL PERMIT.
- NOTICE: APPROVAL OF THIS PLAT DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD OR REGISTERED PUBLIC LAND SURVEYOR IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY ENGINEER.
- NOTICE: ALL RESPONSIBILITY FOR THE ADEQUACY OF THIS PLAT REMAINS WITH THE ENGINEER OR SURVEYOR WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF ANGLETON MUST RELY ON THE ADEQUACY OF THE WORK OF THE ENGINEER AND/OR SURVEYOR OF RECORD.
- IT SHALL BE THE RESPONSIBILITY OF THE HOMEOWNERS ASSOCIATION FOR THE MAINTENANCE OF THE RESERVES LOCATED ON THIS PLAT.
- THE PLATTED PROPERTY LIES WITHIN A TRACT OF LAND (164.5 ACRE TRACT) ANNEXED BY THE CITY OF ANGLETON ON MARCH 9, 2021, CITY ORDINANCE NO. 20210309016

STATE OF TEXAS §
COUNTY OF BRAZORIA §

KNOWN ALL MEN BY THESE PRESENTS:

THAT I, DARREL HEIDRICH, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY SUPERVISION.

DARREL HEIDRICH
REGISTERED PROFESSIONAL LAND SURVEYOR
LAND SURVEYOR NO. 5378

STATE OF TEXAS §
COUNTY OF BRAZORIA §

KNOW ALL MEN BY THESE PRESENTS: THAT I, DOUGLAS B. ROESLER, DO HEREBY CERTIFY THAT PROPER ENGINEERING CONSIDERATION HAS BEEN PROVIDED IN THIS PLAT, TO THE BEST OF MY KNOWLEDGE, THIS PLAT CONFORMS TO ALL REQUIREMENTS OF THE ANGLETON LDC, EXCEPT FOR ANY VARIANCES THAT WERE EXPRESSLY GRANTED BY THE CITY COUNCIL.

SIGNED: DOUGLAS B. ROESLER DATE
PROFESSIONAL ENGINEER
TEXAS REGISTRATION NO. 56739

SHEET 2 OF 2

FINAL PLAT
AUSTIN COLONY
SECTION 1B
BEING 10.680 ACRES
50 LOTS 3 BLOCKS 2 RESERVES
SUBDIVISION
BEING A PORTION OF
A CALLED 164.50 ACRE TRACT
C.C.F.N. 2021067765
O.P.R.B.C.T.
JOSE DE JESUS VALDERAS SURVEY
ABSTRACT NO. 380
CITY OF ANGLETON
BRAZORIA COUNTY, TEXAS



4005 Technology Drive, Suite 1530
Angleton, TX 77515
OFFICE: (979) 849-6681
TBPLS No. 10052500
REG. NO. F-825

OWNER:
WAYNE L. "SANDY" REA, II
TEJAS VIEJO LAND COMPANY
5454 NEWCASTLE DRIVE
UNIT 1101
HOUSTON, TX 77081

PROJECT NO.: 16182	SCALE:	DRAWN BY: BT
DRAWING NO.: 16182 PLAT SEC 1B FINAL.DWG	DATE: 3/4/2025	CHECKED BY: DH

The map displays the Austin Colony Subdivision, Section 1B, which is highlighted with a hatched pattern and a callout box. The subdivision is bounded by S.H. 288 B to the north and Loop 274 to the south. To the west of the subdivision is the City of Angleton, separated by S.H. 288 Freeway and Flood Control. The map shows a network of streets including N. Valderas St., Tinsley, Ridgecrest, Wilkins, Miller, Cedar, Locust, E. Mulberry, Orange, Kiber St., Bryn, Walker St., Park Rd., Western Ave., Oak Park Dr., Shady Oak, Enchanted Oaks Dr., and Anchor Road. A specific area within the subdivision is labeled 'Anchor Pit (Lake)'. The map also indicates 'Loop 274' and 'S.H. 288 B' running vertically through the center. A 'FLOOD CONTROL' area is shown to the west of the freeway. The 'CITY OF ANGLETON' is labeled in the upper left corner.

SHEET NO.	SHEET NAME
1	TITLE SHEET
2	CONSTRUCTION NOTES
3	HYDROLOGICAL CALCULATIONS
4	WINDSTORM DATA I-1 THRU I-14
5	EXISTING CONDITIONS
6	PROPOSED GRADING
7	UTILITY LAYOUT
8	DETENTION POND LAYOUT
9	DRAINAGE AREA MAP
9A	OFF-SITE DRAINAGE AREA CALCULATIONS
10	CUT AND FILL PLAN
11	SWPPP LAYOUT
12	SWPPP NARRATIVE
13	PAVEMENT MARKING, STREET SIGN AND ROADWAY LIGHTING LAYOUT
14	TRAFFIC CONTROL PLAN - TCP (I-1) - 18
15	PLAN & PROFILE - TIGNER STREET STA 0+00 TO 5+00
16	PLAN & PROFILE - TIGNER STREET STA 5+00 TO 5+60
17	PLAN & PROFILE - CROCKETT STREET STA 0+00 TO 5+00
18	PLAN & PROFILE - CROCKETT STREET STA 5+00 TO 7+50
19	PLAN & PROFILE - MOSES AUSTIN STREET STA 0+00 TO 5+20
20	PLAN & PROFILE - MOSES AUSTIN STREET STA 5+20 TO 10+40

21	MISCELLANEOUS DETAILS
22 (SL-01)	GENERAL CONSTRUCTION NOTES - I
23 (SL-02)	GENERAL CONSTRUCTION NOTES - II
24 (SL-03)	STORM SEWER MANHOLE CONSTRUCTION DETAILS
25 (SL-04)	STORM SEWER MANHOLE CONSTRUCTION DETAILS
26 (SL-05)	STORM SEWER CONSTR. DETAILS
27 (SL-06)	STORM SEWER OUTFALL CONSTR. DETAILS
28 (SL-09)	STORM SEWER INLET CONSTR. DETAILS
29 (SL-10)	STORM SEWER CONSTR. DETAILS
30 (SL-11)	JUNCTION BOX
31 (SL-12)	SLOPE END TREATMENT
32 (SL-13)	SANITARY SEWER MANHOLE CONSTR. DETAILS
33 (SL-14)	SANITARY SEWER CONSTR. DETAILS
34 (SL-15)	WATER LINE CONSTRUCTION DETAILS
35 (SL-16)	WATER LINE CONSTRUCTION DETAILS
36 (SL-19)	WATER LINE, SANITARY SEWER FORCE MAIN BEDDING DETAILS
37 (SL-20)	STORM SEWER PIPE BEDDING AND BACKFILL DETAILS
38 (SL-21)	CONCRETE PAVEMENT CONSTRUCTION DETAILS
39 (SL-22)	CONCRETE PAVEMENT CONSTRUCTION DETAILS
40 (SL-23)	RESIDENTIAL CURB CONSTRUCTION DETAILS
41 (SL-25)	WHEEL CHAIR RAMP & SIDEWALK DETAILS - I
42 (SL-26)	WHEEL CHAIR RAMP & SIDEWALK DETAILS - II
43 (SL-27)	DRIVEWAY CONSTRUCTION DETAILS
44 (SL-32)	SIGN CONSTRUCTION DETAILS
45 (SL-33)	GENERAL EROSION CONTROL NOTES
46 (SL-34)	EROSION CONTROL DETAILS - 1
47 (SL-35)	EROSION CONTROL DETAILS - 2
48	CONCRETE HEADWALLS CH-PW-0
LS-1	HERITAGE TREE PRESERVATION PLAN

PROJECT NO. 16182

GENERAL NOTES:

1. CONTACT THE ENGINEERING INSPECTORS WITH THE CITY'S DEVELOPMENT SERVICES AT 979-849-4364 PRIOR TO STARTING WORK TO SCHEDULE A PRE-CONSTRUCTION MEETING.
2. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL BURIED UTILITIES IDENTIFIED, PROTECTED, REPLACED AND/OR PROPERLY REPAIRED IF DAMAGED. REPAIRS/REPLACEMENT SHALL BE AT CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE ALL APPLICABLE PERMITS AND AN APPROVED COPY OF THE PLANS AND SPECIFICATIONS. NOTIFY THE CITY'S ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
4. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY'S ENGINEERING DEPARTMENT 24 HOURS PRIOR TO WEEKDAY WORK REQUIRING INSPECTION INCLUDING, BUT NOT LIMITED TO, LIMING, PAVING OPERATIONS, CONCRETE PLACEMENT, FORMING AND SET-UP, DENSITIES, PIPE INSTALLATION, AND ANY TESTING BY LABORATORIES. THE ENGINEERING DEPARTMENT MAY BE REACHED AT 979-849-4364 OR BY CONTACTING THE ASSIGNED INSPECTOR.
5. ALL SATURDAY WORK SHALL BE REQUESTED, IN WRITING, WITH THE CITY'S PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS IN ADVANCE. SUNDAY AND HOLIDAY WORK REQUIRES 72 HOUR WRITTEN REQUESTS AND MUST BE APPROVED BY THE CITY'S PUBLIC WORKS DIRECTOR. REQUIRED INSPECTIONS MAY BE SUBJECT TO INSPECTION FEES. NON-NOTIFICATIONS MAY RESULT IN NON-COMPLIANCE, WORK ORDERED STOPPAGE AND DOUBLE INSPECTION FEES.
6. FULL-TIME RESIDENT INSPECTION BY THE PROJECT ENGINEER'S REPRESENTATIVE SHALL BE PROVIDED AT ALL CRITICAL POINTS OF CONSTRUCTION OR AS DEEMED NECESSARY BY THE CITY OF ANGLETON.
7. FOLLOW-UP INSPECTIONS OF ALL PUBLIC INFRASTRUCTURE SHALL BE SCHEDULED WITHIN 60 DAYS OF THE INITIAL INSPECTION. COMPLETE RE-INSPECTION AND A NEW PUNCH LIST MAY BE REQUIRED AFTER THE 60 DAY PERIOD.
8. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE TEXAS COMMISSION OF ENVIRONMENTAL QUALITY RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS LAND DEVELOPMENT CODE AND ANGLETON CONSTRUCTION MANUAL, CURRENT EDITION (ANGLETON LDC).
9. ALL STATIONS ARE CENTERLINE OF STREET RIGHT-OF-WAY UNLESS OTHERWISE NOTED ON THE PLANS EXCEPT IN SIDE OR BACK LOT EASEMENTS WHERE CENTERLINE IS CENTER OF PIPE. IN EASEMENTS WHERE SANITARY AND STORM SEWER ARE PRESENT PARALLEL, STATIONS SHALL BE BASED ON CENTERLINE OF SEWER PIPING.
10. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. ANY DRAINAGE AREA OR STRUCTURE DISTURBED, DURING CONSTRUCTION, SHALL BE RESTORED TO THE SATISFACTION OF THE CITY OF ANGLETON. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ANGLETON DESIGN STANDARDS. IF NON-COMPLIANCE OCCURS, CONTRACTOR SHALL REMEDY IMMEDIATELY AT THEIR OWN EXPENSE.
11. ANY POLLUTION CONTROL DEVICE, SOD, OR SEEDED AREA DAMAGED, DISTURBED, OR REMOVED SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR WATERING ANY SEED OR SOD WHICH THE CONTRACTOR HAS INSTALLED UNTIL ADEQUATE GROWTH IS ACHIEVED TO PREVENT EROSION.
12. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND BE IN TOTAL COMPLIANCE WITH THE STORM WATER QUALITY MANUAL OF THE CITY OF ANGLETON.
13. ANY MATERIALS OR WORKMANSHIP NOT MEETING OR EXCEEDING CITY OF ANGLETON STANDARDS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL KEEP THE STREETS, RIGHT OF WAY, AND WORK AREA CLEAN OF DIRT, MUD, AND DEBRIS. CLEAN DAILY OR AS REQUIRED BY CITY STAFF.
15. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL REQUIRED TRAFFIC SAFETY CONTROL DEVICES UP TO AND INCLUDING FLAGMEN OR POLICE OFFICERS, IF DEEMED NECESSARY BY THE CITY OF ANGLETON.
16. THE CONTRACTOR SHALL CONTACT THE CITY AS APPROPRIATE TO OPERATE EXISTING UTILITIES AND PRIOR TO MAKING TIE-INS.
17. ALL BACKFILL WITHIN PUBLIC RIGHTS OF WAY OR EASEMENTS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY (N 8 INCH LIFTS) AND TESTED FOR ±3% OPTIMUM MOISTURE BY AN APPROVED LAB.
18. IT IS PERMISSIBLE TO USE A BACKHOE FOR TRENCH EXCAVATION IN LIEU OF A TRENCHING MACHINE.
19. THE CONTRACTOR SHALL NEVER UNLOAD ANY TRACK TYPE VEHICLE OR EQUIPMENT ON ANY EXISTING PAVEMENT OR CROSS OVER ANY EXISTING PAVEMENT OR CURB.
20. ALL FINISH GRADES ARE TO CONFORM TO A MINIMUM SLOPE OF 1% POSITIVE DRAINAGE.
21. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINT TIE-INS OR CROSSING TO DETERMINE IF CONFLICTS EXIST BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
22. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS.
23. ALL TESTING PROCEDURES SHALL CONFORM TO THE CITY OF ANGLETON STANDARDS. THE INITIAL TESTING EXPENSE SHALL BE THE RESPONSIBILITY OF THE OWNER. IF ANY OF THE TESTS DO NOT MEET THE TESTING STANDARDS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR REPLACE SUCH MATERIAL SO THE TESTING STANDARDS CAN BE MET. ADDITIONAL TESTING TO MEET COMPLIANCE SHALL BE AT THE CONTRACTOR'S EXPENSE.
24. CONTRACTOR SHALL PROVIDE SHEETING, SHORING, AND BRACING AS NECESSARY TO PROTECT EXISTING WORK AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION AS PER OSHA REQUIREMENTS.
25. ALL MATERIALS AND WORKMANSHIP NOT GOVERNED BY CITY STANDARDS SHALL CONFORM TO THE LATEST VERSION OF THE TXDOT STANDARD SPECIFICATIONS AND THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND ANY REVISIONS THERETO.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING AND PROTECTING ALL MATERIALS AND EQUIPMENT STORED ON THE JOBSITE IN A SAFE AND WORKMAN-LIKE MANNER (DURING AND AFTER WORKING HOURS), UNTIL JOB COMPLETION.
27. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES, AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND SHALL BE PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. THE CONTRACTOR SHALL LOCATE AND PROVIDE THE NECESSARY STORAGE AREAS FOR MATERIAL AND EQUIPMENT.
28. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR FOR EXCAVATION, INSTALLATION, AND COMPLETION OF THE PROJECT AS SHOWN ON THE PLANS.
29. PRIVATE UTILITIES (PHONE, CABLE TV, ELECTRICITY, ETC.) WILL BE INSTALLED WITHIN DEDICATED UTILITY EASEMENT.
30. PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING CURRENT OSHA STANDARDS FOR TRENCH SAFETY SYSTEMS, SEALED BY A LICENSED PROFESSIONAL ENGINEER. APPROPRIATE TRENCH SAFETY PLANS SHALL BE SUBMITTED BY THE CONTRACTOR PRIOR TO EXECUTION OF A CONTRACT FOR HIS WORK.

CONCRETE/PAVING NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND AUTHORIZATION REQUIRED BY CITY OF ANGLETON.
2. CONTRACTOR IS RESPONSIBLE FOR HAVING ALL BURIED UTILITIES IDENTIFIED, PROTECTED, REPLACED AND/OR PROPERLY REPAIRED IF DAMAGED. REPAIRS/REPLACEMENT SHALL BE AT CONTRACTOR'S EXPENSE.
3. PAVING CONTRACTOR SHALL PROTECT WATER, SEWER, AND DRAINAGE FACILITIES AND WILL REPLACE ANY DAMAGED FACILITIES AT CONTRACTORS OWN EXPENSE. AT MANHOLES AND VALVES WITHIN THE PAVEMENT AREA SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR WITH THE USE OF APPROVED BLOCKOUTS.
4. ALL PAVING SHALL BE IN ACCORDANCE WITH THE CITY OF ANGLETON DESIGN STANDARDS, APPROVED PLANS AND SPECIFICATIONS WITH THE LATEST REVISIONS OR

- AMENDMENTS. IN THE EVENT OF A CONFLICT, THE CITY OF ANGLETON DESIGN STANDARDS SHALL GOVERN.
5. PAVING CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT PROTECTION FENCES ON ALL STAGES OF CURB INLETS.
6. EXISTING PAVEMENTS, CURBS, SIDEWALKS, DRIVEWAYS, PERIMETER DITCHES & ADJOINING PROPERTIES ETC., DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
7. CONDITION OF THE WORK AREA (INCLUDING ROADS, RIGHT OF WAYS, ETC.) UPON COMPLETION OF THE JOB SHALL BE AS GOOD OR BETTER THAN THE CONDITION PRIOR TO STARTING THE WORK.
8. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.
9. REDWOOD AND KEYSHAW SHALL NOT INTERSECT WITHIN 2 FEET OF AN INLET.
10. AT INITIAL AND FINAL INSPECTIONS THE PAVEMENT WILL BE FLOODED TO CHECK FOR BIRDBATHS AND CRACKS. FLOODING OF STREETS SHALL OCCUR 1 HOUR PRIOR TO INSPECTION.
11. ALL CONCRETE PLACED SHALL BE UNIFORMLY SPRAYED WITH A WHITE MEMBRANE CURING COMPOUND AT AN UNDLITLED RATE OF 200 SF/GALLON OR RATE NOTED PER MANUFACTURE RECOMMENDATIONS IF LESS THAN NOTED. DESCRIBED IN ITEM 526 IN THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. IMPROPER APPLICATION WILL RESULT IN THE REJECTION OF THE CONCRETE.

12. SIX INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH GRADE 60, #4 REBAR, 24 INCH C-C EACH WAY IS THE MINIMUM ACCEPTABLE CONSTRUCTION FOR LOCAL STREETS.
13. SEVEN INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH GRADE 60, #4 REBAR, 18 INCH C-C EACH WAY IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR STREETS.
14. EIGHT INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH GRADE 60, #4 18 INCH C-C EACH WAY IS THE MINIMUM ACCEPTABLE FOR ARTERIAL STREETS.
15. ALL RETURNS SHALL HAVE A MINIMUM 25 FOOT RADIUS AT THE BACK OF CURB UNLESS OTHERWISE NOTED.
16. ALL INTERSECTIONS SHALL BE CONSTRUCTED WITH WHEELCHAIR RAMPS IN ACCORDANCE WITH THE TEXAS ACCESSIBILITY STANDARD, THE AMERICAN DISABILITIES ACT, AND THE CITY OF ANGLETON STANDARDS (LATEST REVISIONS). (NO BLOCKOUTS).
17. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED WITHIN EACH STREET RIGHT OF WAY IN ACCORDANCE WITH CITY OF ANGLETON, THE ADA, AND THE TAS STANDARDS (LATEST REVISIONS).
18. CRACKS LARGER THAN 1/16 INCH ARE NOT ACCEPTABLE IN NEW PAVEMENT. CRACKS 1/16 INCH OR LESS SHALL BE ADDRESSED ON AN INDIVIDUAL BASIS BY DRILL AND EPOXY INJECTION, SUBJECT TO APPROVAL OR REJECTION.
19. PROPER TESTING AND LAB DOCUMENTATION IS REQUIRED. FAILURE TO MEET THE MINIMUM PAVEMENT REQUIREMENTS WILL RESULT IN THE REJECTION OF SAID PAVEMENT. IMMEDIATE REMOVAL AND REPLACEMENT OF SUBSTANDARD PAVEMENT SECTIONS WILL BE NECESSARY TO SATISFY THESE REQUIREMENTS.

20. FOUR CONCRETE CYLINDERS, SLUMP, AND AIR ENTRAINMENT TESTS ARE REQUIRED FOR EACH 100 CUBIC YARDS OF CONCRETE PAVING WITH A MINIMUM OF ONE SET OF 4 PER PLACEMENT. THE CITY OF ANGLETON RESERVES THE RIGHT TO REQUEST ANY ADDITIONAL TESTS AT THE CONTRACTOR'S EXPENSE, IF ANY MATERIAL APPEARS BELOW STANDARDS.

21. NO 3 REBAR, 18 INCH C-C EACH WAY IS THE MINIMUM ACCEPTABLE FOR SIDEWALKS. NUMBER 4 REBAR, 24 INCH C-C EACH WAY IS THE MINIMUM ACCEPTABLE FOR COMMERCIAL APPROACHES, WHEELCHAIR RAMPS, RESIDENTIAL APPROACHES AND DRIVEWAYS.

22. COLD WEATHER PRECAUTIONS. CONCRETE PAVEMENT SHALL NOT BE PLACED WHEN THE AMBIENT TEMPERATURE IS 40°F AND FALLING. CONCRETE MAY BE PLACED IF THE AMBIENT TEMPERATURE IS 35°F AND RISING. CONTRACTOR SHALL PROVIDE AN APPROVED COVERING MATERIAL (COTTON MATS, POLYETHYLENE SHEETING, ETC.) IN THE EVENT TEMPERATURE SHOULD FALL BELOW 32°F. NO SALT OR OTHER CHEMICALS SHALL BE ADDED TO CONCRETE TO PREVENT FREEZING.

23. HOT WEATHER PRECAUTIONS. NO CONCRETE PAVEMENT MIXTURE SHALL BE PLACED IF THE MIXTURE TEMPERATURE IS ABOVE 95°F. AIR AND WATER REDUCER ARE REQUIRED IF MIXTURE TEMPERATURE REACHES 85°F OR ABOVE.

24. IF NO AIR AND WATER REDUCER HAS BEEN ADDED, NO CONCRETE SHALL BE PLACED IF MORE THAN 60 MINUTES PAST BATCH TIME. IF AIR AND WATER REDUCER HAS BEEN ADDED, NO CONCRETE SHALL BE PLACED IF MORE THAN 90 MINUTES PAST BATCH TIME.

25. STRUCTURE TEMPERATURES AND TIMING FOR CONCRETE PLACEMENT MAY VARY. REFER TO CURRENT TXDOT STANDARDS ITEM 420 FOR DETAILS.

26. TRANSVERSE EXPANSION JOINTS AND STAKES SHALL BE OF SOUND REDWOOD AND PLACED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY AND ALL INTERSECTION CURB RETURN POINTS. MAXIMUM SPACING SHALL BE 18 FEET. LUMPY EXPANSION JOINTS SHALL BE CLEANED, WIRE BRUSHED, BLOWN OR FLAME DRIED SEALED WITH AN APPROVED SLT RUBBERIZED HOT LAID ASPHALT JOINT AND CRACK SEALANT OR A TWO (2) COMPONENT POLYMERIC SEALINER FLEE LEVELLING COLD APPLIED SEALANT.

27. CONTROL JOINTS SHALL BE PLACED AT 20 FEET C-C.

28. EXPANSION JOINT LAYOUT FOR INTERSECTIONS SHALL BE PROVIDED BY ENGINEER FOR CITY APPROVAL.

29. NO WIRE MESH IS ALLOWED IN ANY CONCRETE.

30. ALL REBAR SHALL BE 100% TIED. OVERLAPS SHALL BE 36 TIMES BAR DIAMETERS, DOUBLE TIED MINIMUM. REINFORCED STEEL GRADE 60 WITH A MINIMUM 60% COVERAGE. USE PLASTIC CHAIRS TO SUPPORT REINFORCEMENT AT 24 INCH SPACING EACH WAY.

31. ALL NEW CURB REQUIRES 3,500 PSI @ 28 DAYS. 4 CONCRETE CYLINDERS, SLUMP, AND AIR ENTRAINMENT TESTS ARE REQUIRED FOR EACH 50 CUBIC YARDS OF CONCRETE CURB WITH A MINIMUM OF ONE SET OF 4 PER PLACEMENT.

32. A CITY APPOINTED INSPECTOR OR ENGINEER MUST BE PRESENT ON ALL PROOF ROLLS, LIME DEPTH CHECKS AND DENSITY TESTS AND MUST BE CONTACTED AT LEAST 24 HOURS PRIOR TO THE TEST. PRIOR TO CONCRETE PLACEMENT CONTRACTOR SHALL PRESENT A CERTIFIED COPY OF TOP OF FORM GRADES TO THE ENGINEER FOR REVIEW AND APPROVAL. ELEVATION OF FORMS SHALL BE RECORDED AT 10 FOOT INTERVALS. ADJUSTMENTS TO FORMS SHALL BE COMPLETE 12 HOURS PRIOR TO CONCRETE PLACEMENT.

33. CONCRETE MIX DESIGN MUST BE SENT TO THE ENGINEER FOR APPROVAL. A MINIMUM 72 HOURS BEFORE THE FIRST CONCRETE POUR.

34. FOR A REGULAR MIX, SLUMP SHALL BE A MAXIMUM OF 5 INCHES. FOR A MIX WITH A WATER REDUCER, SLUMP SHALL BE A MAXIMUM OF 6 INCHES.

35. VEHICLES OF ALL TYPES ARE PROHIBITED FROM DRIVING ON NEW PAVEMENTS 7 DAYS AFTER THE CONCRETE POUR AND UNTIL THE CONCRETE HAS REACHED A MINIMUM OF 3,000 PSI. PAVEMENT PROTECTION SUCH AS A DIRT LAYER OF AT LEAST 12 INCHES IS REQUIRED FOR TRACK EQUIPMENT AT PAVEMENT CROSSINGS.

36. IN LIEU OF MECHANICALLY CONTROLLED VIBRATORS CONTROLLED BY A SLIP FORM PAVING MACHINE, USE OF AN APPROVED VIBRATOR SCRED WILL BE REQUIRED. AT INTERSECTIONS AND SMALL AREAS WHERE A VIBRATORY SCRED CAN NOT BE USED, A HAND VIBRATOR OR "JITTERBUG" SHALL BE REQUIRED.

37. ALL EXPOSED JOINTS SHALL BE EDGED AS NOTED ON DETAILS. SURFACE SHALL BE TYPICALLY A BELT FINISH OR BROOM FINISH (COARSE, MEDIUM OR LIGHT) AS REQUIRED BY THE APPLICATION AND DIRECTED BY THE ENGINEER.

38. ALL PAVEMENT MARKINGS TO BE DONE IN CONFORMANCE WITH THE LATEST VERSION OF MUTMCD AND TXDOT STANDARD SPECIFICATIONS AND ANY REVISIONS THERETO.
39. BB INDICATES ROAD WIDTH TO BACK OF CURB. CURB RADI ARE TO BACK OF CURB. T.C. INDICATES TOP OF CURB ELEVATIONS (BASED ON 4 INCH CURB UNLESS OTHERWISE NOTED).

CEMENT STABILIZED SAND:

1. ALL STABILIZED SAND SHALL HAVE A MINIMUM CEMENT CONTENT OF 1.5 SK PER CUBIC YARD.
2. CEMENT STABILIZED SAND (CSS) SHALL ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 100 PSI WITHIN 48 HOURS.

3. ANY CSS THAT DOES NOT MEET THE MINIMUM COMPRESSIVE STRENGTH OR MINIMUM CEMENT CONTENT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

4. A MINIMUM OF 2 RANDOM SAMPLES SHALL BE TAKEN EACH WEEK. THE CITY ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL TESTS, AT THE OWNER'S EXPENSE, IF IT IS DEEMED NECESSARY.

5. ALL CSS SHALL BE COMPACTED IN LIFTS NOT TO EXCEED 8-INCHES IN DEPTH. CSS SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95%.

BANK SAND:

1. BANK SAND IS DEFINED AS A WELL-GRADED SAND, FREE OF SILT, CLAY, FRIABLE OR SOLUBLE MATERIALS AND ORGANIC MATTER, MEETING THE UNIFIED SOILS CLASSIFICATIONS SYSTEM GROUP SYMBOL SW CRITERIA WITH A PLASTICITY INDEX OF LESS THAN 10. NO MORE THAN 12% OF MATERIAL CAN PASS THE No. 200 SIEVE.

LIMING SUBGRADE:

1. LIME SHALL BE A "SLURRY" AS PER TXDOT 260 UNLESS SPECIFICALLY RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY ENGINEER.

2. ALL LIME SLURRIES SHALL BE FURNISHED AT OR ABOVE THE MINIMUM "DRY SOLIDS" CONTENTS AS APPROVED BY THE ENGINEER.

3. SUBGRADES SHALL BE STABILIZED WITH A MINIMUM 6% LIME BY WEIGHT, 8 INCH THICK FOR THE INITIAL MIX TO REDUCE PLASTICITY INDEX (PI) TO 20 OR LESS AS DETERMINED BY THE LIME SERIES. THE FINAL MIX SHALL BE AT 6 INCHES THICK. SUBGRADE TO BE STABILIZED 2 FOOT BACK OF EDGE OF PAVEMENT. SUBGRADE PREPARATION FOR PAVING SHALL INCLUDE PROOF ROLLING. SOFT AREAS TO BE EXCAVATED AND RE-COMPACTED TO ACHIEVE SOIL DENSITY TO PASS PROOF ROLLING.

4. LIME DRY SOLID CONTENT TESTS SHALL BE CONDUCTED ON SITE, ONCE PER ONE HUNDRED TONS OF MATERIAL DISTRIBUTED, UNLESS OTHERWISE NOTED.

5. THE SUBGRADE SHALL BE SHAPED AND GRADED TO CONFORM TO THE TYPICAL SECTIONS, AS SHOWN ON THE PLANS BY USE OF BLUE TOP STAKES. CITY TO INSPECT INSTALL OF BLUE TOPS & FINAL GRADING PRIOR TO LIME TREATMENT THE EXISTING MATERIAL.

6. UNLESS APPROVED BY THE CITY ENGINEER, LIME OPERATIONS SHALL NOT BE STARTED WHEN THE AMBIENT AIR TEMPERATURE IS BELOW 40°F AND FALLING. LIMING MAY, WITH APPROVAL, BE STARTED WHEN THE AMBIENT AIR TEMPERATURE IS 35°F AND RISING. LIME SHALL NOT BE PLACED WHEN WEATHER CONDITIONS, IN THE ENGINEER'S OPINION, ARE UNSUITABLE.

7. THE SUBGRADE MATERIAL AND SLURRY SHALL BE THOROUGHLY MIXED, ADD WATER AS NECESSARY TO BRING MATERIAL TO THE PROPER MOISTURE CONTENT (±2%) OF OPTIMUM MOISTURE CONTENT AND LEAVE TO CURE USUALLY 3 DAYS (72 HOURS) BEFORE OPERATION. THE SURFACE SHALL BE REWORKED IN CONFORMANCE WITH THE CITY ENGINEER. KEEP LIME TREATED SUBGRADE WATERED DURING CURE PERIOD.

8. AFTER CURING, THE SUBGRADE SHALL BE REMIXED UNTIL PULVERIZATION REQUIREMENTS ARE MET, AS PER TXDOT. TEX-101-E, PART II.

- PERCENT MINIMUM PASSING 1-3/4 INCH SIEVE 100
PERCENT MINIMUM PASSING 3/4 INCH SIEVE 85
PERCENT MINIMUM PASSING NO 4 SIEVE 60

9. SIEVE TESTS SHALL BE CONDUCTED EVERY 150 LINEAR FEET ON ALTERNATING LANES OF TRAFFIC OR EVERY 300 LINEAR FEET ON SINGLE LANES AS REQUIRED. AT LEAST ONE TEST SHALL BE CONDUCTED ON EACH ROADWAY OR CUL-DE-SAC.

10. THE MATERIAL SHALL BE AERATED OR MOISTENED TO ±2% OPTIMUM PRIOR TO COMPACTION. COMPACTION TO A MINIMUM 95% DENSITY SHALL BEGIN IMMEDIATELY AFTER ALL PULVERIZATION AND MOISTURE REQUIREMENTS ARE MET. THROUGHOUT THE ENTIRE OPERATION, THE SURFACE SHALL BE SMOOTH AND IN CONFORMITY WITH THE LINES AND GRADES ON THE PLANS.

11. WHEN THE SUBGRADE FAILS TO MEET DENSITY REQUIREMENTS OR SHOULD IT LOSE THE REQUIRED DENSITY OR FINISH, IT SHALL BE REWORKED IN CONFORMANCE WITH TXDOT SUBARTICLE 260.4 "REWORKING A SECTION", WHICH MAY REQUIRE AN ADDITIONAL 25% OF THE SPECIFIED LIME AMOUNT.

12. THE TREATED SUBGRADE SHALL BE KEPT MOIST AND PREVENTED FROM DRYING. IN THE EVENT OF A 1/2 INCH RAINFALL AND/OR IF THE MATERIAL BECOMES DRY AND IS NOT IN COMPLIANCE WITH THE ±2% OPTIMUM MOISTURE, DENSITY AND MOISTURE TESTS SHALL BE RETAKEN.

13. NO SUBGRADE SHALL BE COVERED WITH ANOTHER MATERIAL UNLESS APPROVED BY THE CITY OF ANGLETON AND LIME DEPTH TESTS HAVE BEEN COMPLETED.

STABILIZED CRUSHED CONCRETE:

1. TEST AND ANALYSIS OF AGGREGATE AND BINDER MATERIALS WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1557 AND ASTM D 4318. CEMENT SHALL BE ASTM C 150 TYPE I.

2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES CURRENT EDITION AND CITY OF ANGLETON STANDARDS.

3. PRIME COAT SHALL BE MC 30 OR EPR-1 PRIME.

4. DESIGN MIX FOR MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 200 PSI IN 48 HOURS. PROVIDE MINIMUM CEMENT CONTENT OF 2 SACK PER TON OF MIX. CEMENT CONTENT MAY BE RAISED AT THE CONTRACTOR'S EXPENSE IF TESTS ON FIELD SAMPLES FALL BELOW 200 PSI.

5. THREE SAMPLES SHALL BE MOLDED EACH DAY FOR EACH 300 TONS OF PRODUCTION. COMPACTION SHALL BE STRUCK WITH THE AVERAGE OF THREE TESTS FOR EACH PRODUCTION LOT. CONTRACTOR SHALL REPLACE, AT CONTRACTORS OWN EXPENSE, ANY MATERIAL BELOW MINIMUM REQUIREMENTS.

6. CONTRACTOR SHALL VERIFY LINES, GRADES, AND COMPACTED SUBGRADE AS READY TO RECEIVE MATERIALS PRIOR TO ITS PLACEMENT.

7. CEMENT STABILIZED BASE MAY NOT BE PLACED IF AMBIENT TEMPERATURE IS 40°F AND FALLING. BASE MATERIAL MAY BE PLACED IF AMBIENT TEMPERATURE IS 35°F AND RISING.

8. MATERIAL MAY NOT BE PLACED IN LIFTS EXCEEDING 8 INCHES IN DEPTH. EACH LIFT SHALL HAVE DENSITIES TAKEN.

9. CEMENT STABILIZED BASE MAY NOT BE STORED BEYOND A MAXIMUM TIME ALLOWED OF 3 HOURS.

10. CEMENT STABILIZED BASE SHALL NOT BE INSTALLED IN WET OR SOFT AREAS.

11. COMPACT TO MINIMUM DENSITY OF 95% OF MAXIMUM DRY DENSITY. UNLESS OTHERWISE INDICATED ON DRAWINGS, MOISTURE SHALL BE BETWEEN ±2% OPTIMUM AS DETERMINED BY ASTM D 698.

12. AFTER COMPACTING FINAL COURSE, BLADE SURFACE TO FINAL GRADE. ANY IRREGULARITIES, WEAK SPOTS, AREAS OF EXCESSIVE WETNESS, OR SURFACE HAIR LINE CRACKING SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE.

13. A CERTIFIED LAB SHALL BE ON SITE AT TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.

14. COMPACTION TESTING WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 OR ASTM D 2922 AND ASTM D 3017 AT RANDOMLY SELECTED LOCATIONS AS DIRECTED BY CITY OF ANGLETON CONSTRUCTION INSPECTOR.

15. A MINIMUM OF ONE CORE SHALL BE TAKEN AT RANDOM LOCATIONS PER 300 LINEAR FEET PER LANE OF ROADWAY OR ONE PER 250 SQUARE YARD, WHICHEVER MAY APPLY AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.

16. CURE FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.

17. COVER SURFACE WITH CURING MEMBRANES AT THE FOLLOWING RATES: MC-30-0.15 GAL PER SQUARE YARD, OR EPR-1 PRIME: 0.15 GALLON PER SQUARE YARD. DO NOT USE CUTBACK ASPHALT APRIL 16 TO SEPTEMBER 15. PROTECT THE MEMBRANE

- BY ALLOWING MEMBRANE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT.

18. UNSTABILIZED CRUSHED CONCRETE MAY NOT BE USED ON PUBLIC STREETS, ROADS, OR RIGHTS OF WAY.

19. STABILIZED LIMESTONE BASE MAY BE SUBSTITUTED FOR STABILIZED CRUSHED CONCRETE IF SUBMITTED AND APPROVED BY THE ENGINEER.

STORM SEWER NOTES:

1. STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED WITH CITY OF SUGAR LAND STANDARD CONSTRUCTION SPECIFICATIONS AND IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAILS SHEET AND LATEST REVISIONS.

2. ALL PIPE STORM SEWERS SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAIL DRAWINGS.

3. ALL CEMENT STABILIZED SAND (CSS) SHALL BE 1.5 SACK PER CUBIC YARD. AND MEET MINIMUM CSS STANDARDS COMPACTED TO 95%.

4. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 8 INCH BRICK WALLS WITH FULL MORTAR HEAD AND BED JOINTS AND GROUTED WITH A MINIMUM OF 1/2 INCH NON-SHRINK GROUT INSIDE AND OUTSIDE, UNLESS OTHERWISE NOTED.

5. RIM ELEVATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE THE FINISH GRADE AT EACH LOCATION AFTER CONTRACTOR HAS COMPLETED FINAL GRADING. SLOPED FILL SHALL BE ADDED FOR STORM WATER DRAINAGE AWAY FROM RIM.

6. RIM ELEVATIONS SHALL BE PROPERLY ADJUSTED TO GRADE IN PAVEMENT AND SIDEWALKS. APPROVED BLOCKOUTS SHALL BE USED IN PAVEMENT.

7. ALL STORM SEWER MANHOLE COVERS MUST INCLUDE "STORM SEWER" AND "DUMP NO WASTE". "DRAINS TO WATERWAYS" WITH CITY OF ANGLETON EMBLEM AS DEPICTED IN THE DETAIL SHEETS.

8. MINIMUM STORM SEWER SIZE SHALL BE 18 INCH DIAMETER. ALL STORM SEWER PIPES 18 INCH AND LARGER ARE TO BE REINFORCED CONCRETE PIPE ASTM C-76 CLASS III, INCLUDING INLET LEADS CROSSING UNDER EXISTING OR PROPOSED PAVEMENTS. ALL INLET LEADS SHALL BE 18 INCH RCP OR LARGER. ALL STORM SEWER PIPE SHALL BE RUBBER GASKETED. ALL CMP PIPE SHALL BE IN ACCORDANCE WITH COSL APPROVED PRODUCT LIST AND STANDARD DETAILS.

9. CONTRACTOR SHALL VERIFY FINAL GRADE PRIOR TO FINAL STAGE OF MANHOLE CONSTRUCTION.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPAIRED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF LIFT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATER RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS OF WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.

11. CONTRACTOR TO PROVIDE A MINIMUM OF 12 INCHES CLEARANCE AT UTILITY CROSSINGS UNLESS OTHERWISE SPECIFIED ON PLANS.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY DRAINAGE SYSTEM DISTURBED AS A RESULT OF CONTRACTORS WORK.

13. ALL DITCHES SHALL BE RESTORED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE COMPACTED AND ALL DISTURBED AREAS SHALL BE RESEED OR SODDED WITHIN 10 WORKING DAYS OF EACH OCCURRENCE (NO SEPARATE PAY).

14. THE UTILITY CONTRACTOR SHALL ROUGH CUT ALL ROADSIDE SWALES IN PROPER ALIGNMENT AND SLOPE TO WITHIN 0.2 FEET OF FINISH GRADE. THE PAVING CONTRACTOR, UPON COMPLETION OF PAVING, SHALL COMPLETE FINAL GRADING ALIGNMENT OF SWALES AND RESTORE ALL AREAS WITHIN RIGHT-OF-WAY FOR SEEDING OR SODDING AND FERTILIZATION.

15. ALL STORM SEWERS MUST BE CLEAN/FREE OF DIRT AND DEBRIS BEFORE FINAL ACCEPTANCE.

SANITARY SEWER NOTES:

1. SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE DESIGNED AND CONSTRUCTED AS PER THE REQUIREMENTS OF THE CITY OF ANGLETON LDC AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS". SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF ANGLETON LDC SHALL GOVERN.

2. ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL COMPLY WITH THE CITY OF ANGLETON LDC AND THE CURRENT APPROVED PRODUCTS LIST.

3. STACKS SHALL BE BUILT IN ACCORDANCE WITH THE REQUIREMENTS OF THE ANGLETON LDC. EXACT LOCATION OF THE STACK SHALL BE SUPPLIED BY THE PROJECT ENGINEER (BAKER & LAWSON) ON SEALED AS-BUILT DRAWINGS AT COMPLETION OF CONSTRUCTION.

4. EACH SANITARY SEWER SERVICE LEAD STUB, PLUGGED WYE BRANCH OUTLET AND STACK SHALL BE MARKED IN ACCORDANCE WITH THE DETAILS AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET BELOW THE CARPED TERMINATION POINT OF THE STACK AND EXTENDING TWO FEET ABOVE FINISHED GRADE.

5. LOCATION OF SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED PER DRAWINGS. MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF 1 FOOT FROM BACK OF CURB, MEASURED FROM OUTSIDE DIAMETER OF MANHOLE RING. ALL SANITARY SEWER MANHOLES SHALL INCORPORATE INFLOW PROTECTORS. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS. BRICK MANHOLES AND FIBERGLASS MANHOLES ARE PROHIBITED. MANHOLES DEEPER THAN EIGHT FEET SHALL HAVE ECCENTRIC CONES.

6. SANITARY SEWER MANHOLE COVERS SHALL BE MINIMUM OF 32 INCHES IN DIAMETER. ALL SUCH MANHOLE COVERS SHALL HAVE THE CITY OF ANGLETON EMBLEM AND THE WORDS "ANGLETON" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED IN CITY OF ANGLETON STANDARD CONSTRUCTION DETAILS SHEETS.

7. MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE FINISHED GRADE, AND 0.5 FEET ABOVE NATURAL GROUND WITHIN RIGHTS OF WAY AND EASEMENTS. AT EACH MANHOLE LOCATION AFTER PAVEMENT CONTRACTOR HAS COMPLETED FINAL GRADING, THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF TO THE SANITARY SEWER SYSTEM.

8. MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 317.13, APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWER FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN NINE FEET OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO THE ANGLETON LDC INFRASTRUCTURE STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE SEPARATION DISTANCES OF GREATER THAN NINE FEET CANNOT BE MAINTAINED.

9. TESTING OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE CONDUCTED AS NOTED IN SANITARY SEWER CHAPTER OF THE ANGLETON LDC DESIGN STANDARDS, AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS".

10. ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE WITH CITY DESIGN STANDARDS PRIOR

TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. CONTRACTOR SHALL NOTIFY INSPECTOR 24 HOURS PRIOR TO INSPECTION.

11. ALL COMMERCIAL DEVELOPMENTS WITH A FAR SIDE SANITARY SERVICE LEAD ACROSS THE STREET SHALL PROVIDE A 6 INCH RISER AND CLEAR OUT ON THE PROPERTY SIDE. PUBLIC MAINTENANCE OF THE FAR SIDE LEAD SHALL END AT THIS RISER.

WATER DISTRIBUTION NOTES:

1. WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED AS PER REQUIREMENTS OF THE ANGLETON LDC DESIGN STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, THE ANGLETON LDC DESIGN STANDARDS SHALL GOVERN.

2. ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF WATER MAINS, WATER SERVICE

1

Drainage Analysis

Job # 16182 - Texas Viejo Land Co.-Austin Colony Sec. 1B

Rainfall intensity calculations for Brazoria County

i = intensity (in/hr)
b = coefficient
t = time of concentration
d = coefficient
e = coefficient

subscript i=1 = 2 year storm
i=2 = 5 year storm
i=3 = 10 year storm
i=4 = 25 year storm
i=5 = 50 year storm
i=6 = 100 year storm

i := 1..6

b _i :=	A _b :=	d _i :=
71.0	0.774	8.4
70.1	0.752	7.7
96.6	0.770	17.2
89.2	0.736	10.4
86.5	0.709	10.0
120.2	0.741	21.3

T₀ := 53.33 ENTER PREDEVELOPMENT TIME OF CONCENTRATION

$$I_1 := \frac{b_i}{\left(d_i + T_{0i}\right)^{c_i}} \quad I_0 = 4.921 \quad \text{Predevelopment Intensity of interest}$$

C₀ := .091 ENTER PREDEVELOPMENT C VALUE

A₀ := 13.52 ENTER AREA

2

C_r := 1.00

$$Q := C_r I_0 A$$

Q = 6.055

$$V_{000} := (C) \cdot A \cdot 43560 \cdot 1.08$$

$$V = 5.788 \times 10^4$$

Must Insert correct subscript for I to obtain the relevant Q

For these calculations, total volume storage is assumed to equal (C)*A with A converted to square feet multiplied by 13" (1.08')

DEVELOPMENT OF RUNOFF HYDROGRAPH
MALCOM'S METHOD AS DESCRIBED IN THE
BRAZORIA COUNTY DRAINAGE CRITERIA
MANUAL

$$T := \frac{V}{1.39 \cdot Q} \quad T = 6.877 \times 10^3$$

t := 0, 1000., 84000

$$f(t) := \left(\frac{Q}{2}\right) \left(1 - \cos\left(\frac{t \cdot \pi}{T}\right)\right)$$

f(t) describes rising limb of hydrograph

$$g(t) := 4.34 \cdot Q \cdot \exp\left[-1.30 \cdot \left(\frac{t}{T}\right)\right]$$

g(t) describes descending limb of hydrograph

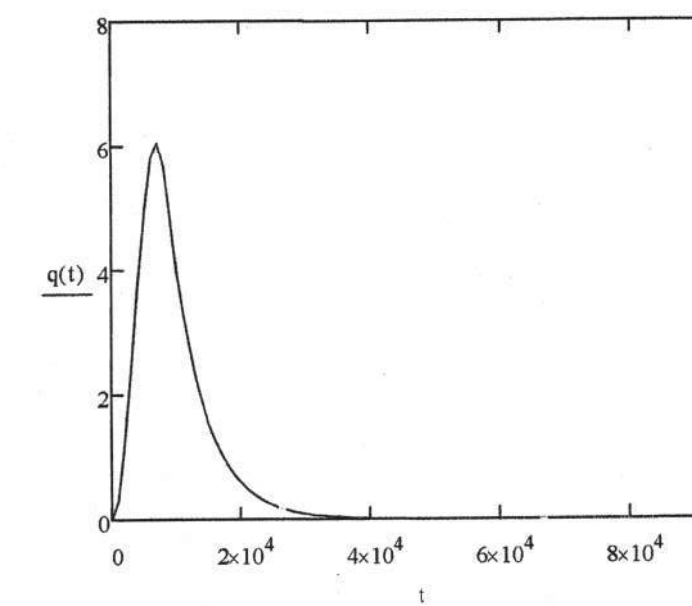
$$q(t) := \text{if}(t \leq 1.25 \cdot T, f(t), g(t))$$

$$\text{Volume}_{\text{pre}} := \int_0^{86400} q(t) dt$$

$$\text{Volume}_{\text{pre}} = 5.808 \times 10^4$$

3

Predevelopment hydrograph



T₀₀ := 26.42

ENTER POST DEVELOPMENT TIME OF CONCENTRATION

$$I_1 := \frac{b_i}{\left(d_i + T_{0i}\right)^{c_i}}$$

I₀ = 6.855 Post development I of interest

C₀ := 0.65

A₀₀ := 1.25

$$Q_{00} := C \cdot I_0 \cdot A \cdot C_r$$

ENTER POST DEVELOPMENT C FACTOR
REVISE C AND AREA IF NECESSARY

Q = 75.299

$$V_{000} := (C) \cdot A \cdot 43560 \cdot 1.08$$

$$V = 4.134 \times 10^5$$

$$T := \frac{V}{1.39 \cdot Q} \quad T = 3.95 \times 10^3$$

4

t := 0, 1000., 25000

$$f(t) := \left(\frac{Q}{2}\right) \left(1 - \cos\left(\frac{t \cdot \pi}{T}\right)\right)$$

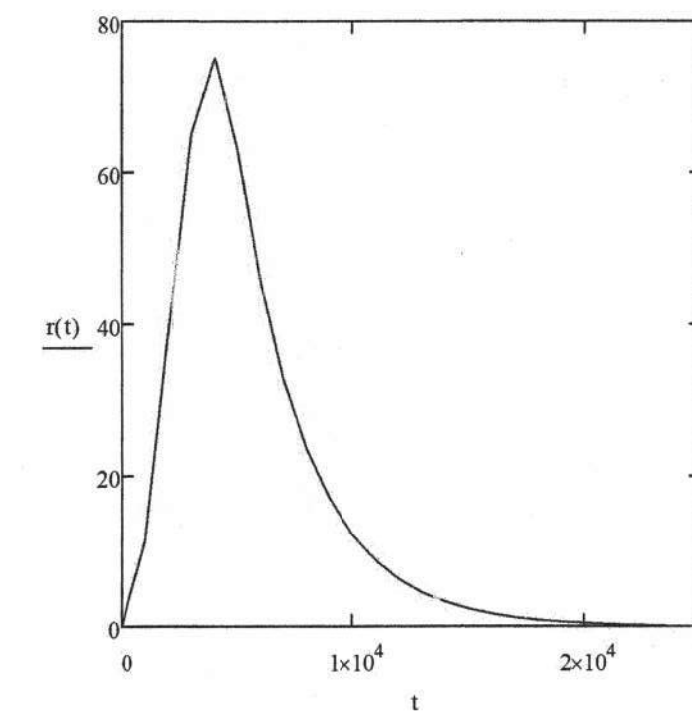
$$g(t) := 4.34 \cdot Q \cdot \exp\left[-1.30 \cdot \left(\frac{t}{T}\right)\right]$$

$$r(t) := \text{if}(t \leq 1.25 \cdot T, f(t), g(t))$$

$$\text{Volume}_{\text{post}} := \int_0^{86400} r(t) dt$$

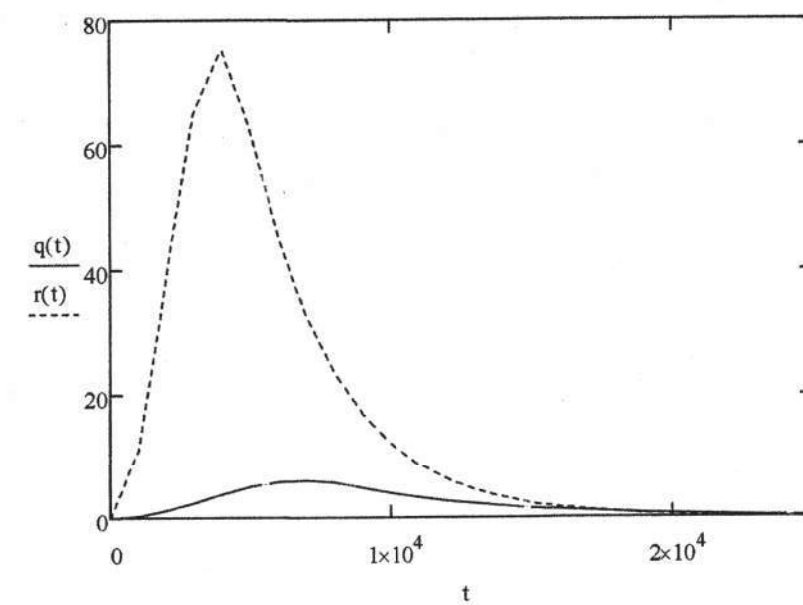
$$\text{Volume}_{\text{post}} = 4.149 \times 10^5$$

Post development hydrograph



Combined pre and post development hydrographs

5



$$R(t) := ((r(t) - q(t))) \cdot 1$$

$$v(t) := \text{if}(f(t) > 0, f(t), 0)$$

THE REQUIRED STORAGE COMPUTED
AS THAT PART OF THE POST DEVELOPMENT
HYDROGRAPH THAT FALLS ABOVE THE
PREDEVELOPMENT HYDROGRAPH

ACRE- FEET

$$\int_0^{86400} v(t) dt = 8.236$$

6

Hydrological and Hydraulic Impacts
Texas Viejo Land Co.-Austin Colony Sec. 1B
Anchor Road

Job # 16182

Brazoria County, Texas

A = 13.52 Acre Development :
(50 Lots, Road ROW and 1.8 Ac. Detention)

Pre Development:

C = 0.30 (Adjust to 0.091)
TC = 53.33 Minutes, I = 4.921
Q = 100 Year Storm = 17,248 cfs
Q-Allowable is 0.45 cfs / ac. = 6.08 cfs

Post Development

C = 0.65
TC = 26.42 Minutes, I = 6.855
Q = 100 Year Storm = 75,299 cfs

Required Detention:

8,236 acre - feet (358,760 c.f.)
0.61 ac-ft / ac

Douglas B. Roesler, P.E. Jan. 23, 2025

EXISTING CONDITIONS

Bra. Co. Master Drg. Study allows only 0.45 cfs/acre in this area. This is Oyster Creek drainage areas OC 25.

TC = 15 Minutes gather time plus diagonal length 1,150' overland at 0.50 fps = 53.33 Minutes

PROPOSED CONDITIONS

TC = 15 Minutes gather time + 140' overland at 0.50 fps + 320' gutter @ 2.0 fps + 735 I.F. storm sewer @ 3.0 fps = 26.42 Minutes
C = 0.65 per Bra. Co. Drg. Criteria manual.

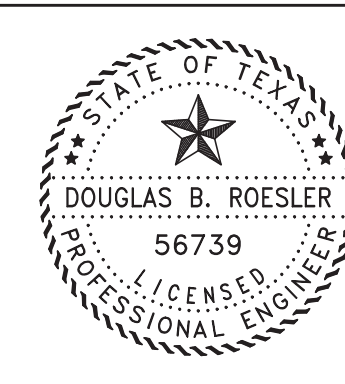
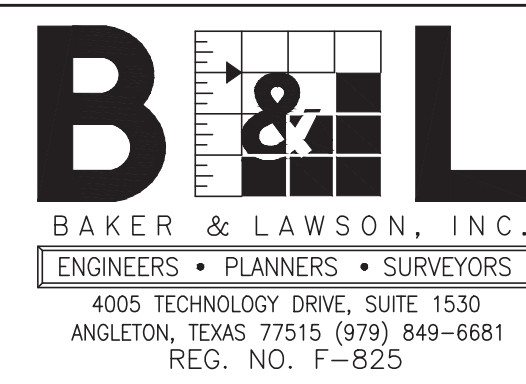
ORIFICE EQUATION

$$Q = C_d \cdot A \cdot (2 \cdot G \cdot H)^{0.5}$$

Where:

Q =	Varies (cfs)	12.76	(14.83 Acres in 1A + 13.52 Acres in 1B) * 0.45 cfs/acre
Cd =	Coefficient	0.8	
A =	Dia. (s.f.)	?	
G =	Gravity (fps)	32.2	
H =	Varies (ft)	2	
A =	1.41	15" = 1.23	

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			



The seal appearing on this document was authorized by Douglas B. Roesler P.E. 56739 03-07-2025

OWNER:
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Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: _____
PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

HYDROLOGICAL
CALCULATIONS

PROJECT NO. 16182

JOB NO: 16182
PROJECT: ANGLETON AUSTIN COLONY SEC. 1B

STORM SEWER CALCULATIONS (10-YEAR AND 100-YEAR FREQUENCY STORMS)

INTENSITY COEFFICIENTS			
5-YEAR	b	d	e
10-YEAR	58.019	9.24	0.7120
100-YEAR	57.515	7.78	0.6760
	46.316	1.56	0.5330

STORM SEWER CALCULATIONS (5-YEAR FREQUENCY STORM)																																
DRAINAGE AREA	FROM	TO	AREA	CUM. AREA	RUNOFF COEFF. C	FREQUENCY CORRECTION FACTOR	Cf*C	Cf*C*A	SUM OF Cf*C*A	TIME OF CONC.	INLET THROAT LENGTH	INTENSITY i	SUM OF FLOWS	REACH LENGTH	PIPE COUNT	DIAM OR RISE	SPAN	AREA	SLOPE	MANNINGS "N"	DESIGN CAPACITY	DESIGN VELOCITY	FALL	MH DROP	FLOWLINE UP STREAM	FLOWLINE DOWN STREAM	ACTUAL VELOCITY	HYDRAULIC GRADIENT	CHANGE IN HEAD	HYD GRAD UP STREAM	HYD GRAD DOWN STREAM	GUTTER UP STREAM
			(ac)	(ac)		Cf	Cf*C<= 1.0			(min)	(ft)	(in/hr)	(cfs)	(ft)		(in)	(in)	(sf)	(%)		(cfs)	(fps)	(ft)	(ft)	(ft)	(ft)	(fps)	(%)	(ft)	(ft)	(ft)	(ft)

Column1 Column2 Column3 Column4 Column5 Column6 Column7 Column8 Column9 Column10 Column11 Column12 Column13 Column14 Column15 Column16 Column17 Column18 Column19 Column20 Column21 Column22 Column23 Column24 Column25 Column26 Column27 Column28 Column29 Column30 Column31 Column32 Column33 Column34

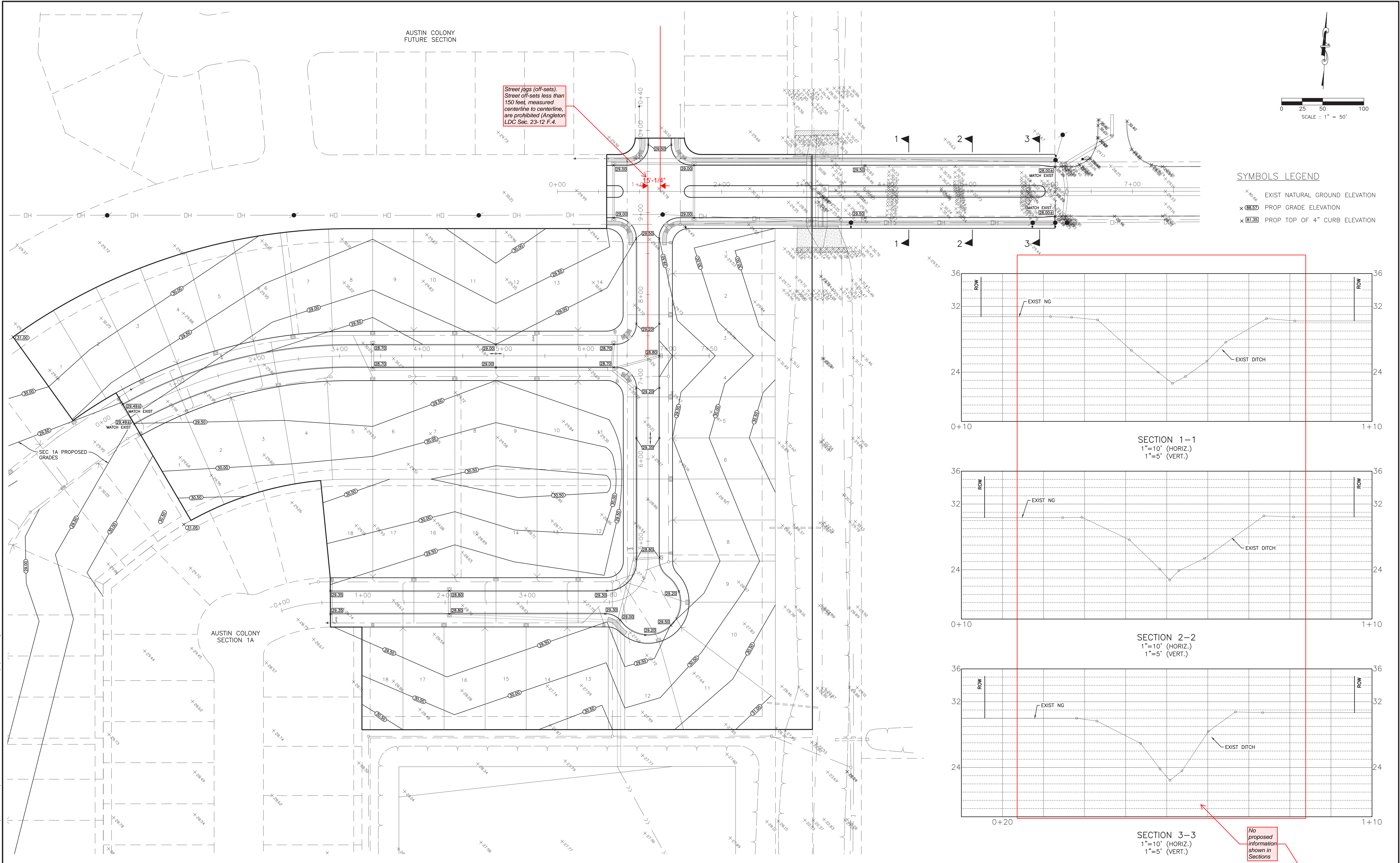
SYSTEM (10 Year)																																	
1	I-1	I-2	2.0000	2.0000	0.60	1.00	0.60	1.2000	1.2000	15.00	5.56	6.95	8.34	32	1	24	0	3.1416	0.22	0.013	10.61	3.38	0.07	0.00	24.53	24.46	2.66	0.14	0.04	27.70	27.65	28.37	HGLOK
2	I-2	I-5	1.4500	3.4500	0.60	1.00	0.60	0.8700	2.0700	15.17	4.01	6.92	14.32	294	1	30	0	4.9087	0.20	0.013	18.58	3.78	0.60	0.00	24.46	23.86	2.92	0.12	0.36	27.65	27.30	28.37	HGLOK
3	I-3	I-5	0.2600	0.2600	0.60	1.00	0.60	0.1560	0.1560	15.00	0.72	6.95	1.08	32	1	18	0	1.7671	0.22	0.013	4.93	2.79	0.07	0.00	24.53	24.46	0.61	0.01	0.00	27.30	27.30	28.70	HGLOK
4	I-4	I-5	0.3200	0.3200	0.60	1.00	0.60	0.1920	0.1920	15.00	0.89	6.95	1.33	60	1	18	0	1.7671	0.22	0.013	4.71	2.67	0.12	0.00	24.55	24.43	0.76	0.02	0.01	27.30	27.29	28.37	HGLOK
5	I-5	MH-1	0.5500	4.5800	0.60	1.00	0.60	0.3300	2.7480	16.84	1.45	6.60	18.13	34	1	30	0	4.9087	0.18	0.013	17.28	3.52	0.06	0.00	23.26	23.20	3.69	0.19	0.07	27.29	27.22	28.37	HGLOK
MH-1	MH-1	I-7			0.60	1.00	0.60						18.13	208	1	30	0	4.9087	0.20	0.013	18.26	3.72	0.41	0.00	23.20	22.79	3.69	0.19	0.40	27.22	26.82		HGLOK
6	I-6	I-7	0.9400	0.9400	0.60	1.00	0.60	0.5640	0.5640	15.00	2.61	6.95	3.92	32	1	18	0	1.7671	0.22	0.013	4.93	2.79	0.07	0.00	24.53	24.46	2.22	0.14	0.04	26.82	26.77	28.47	HGLOK
7	I-7	I-10	0.2500	5.7700	0.60	1.00	0.60	0.1500	3.4620	18.12	0.64	6.37	22.07	78	1	36	0	7.0686	0.19	0.013	29.33	4.15	0.15	0.00	22.79	22.64	3.12	0.11	0.08	26.77	26.69	28.47	HGLOK
8	I-8	I-9	1.1400	1.1400	0.60	1.00	0.60	0.6840	0.6840	15.00	3.17	6.95	4.76	32	1	24	0	3.1416	0.19	0.013	9.82	3.13	0.06	0.00	24.54	24.48	1.51	0.04	0.01	26.69	26.67	28.37	HGLOK
9	I-9	I-10	1.1000	2.2400	0.60	1.00	0.60	0.6600	1.3440	15.17	3.04	6.92	9.30	207	1	30	0	4.9087	0.22	0.013	18.39	3.75	0.41	0.00	24.48	24.07	1.89	0.05	0.11	26.67	26.57	28.37	HGLOK
10	I-10	OUT	0.4300	8.4400	0.60	1.00	0.60	0.2580	5.0640	18.52	1.09	6.31	31.95	175	1	42	0	9.6211	0.19	0.013	44.47	4.62	0.34	1.43	22.64	22.30	3.32	0.10	0.18	26.18	26.00	28.67	HGLOK
11	I-11	I-12	0.2600	0.2600	0.60	1.00	0.60	0.1560	0.1560	15.00	0.72	6.95	1.08	68	1	18	0	1.7671	0.22	0.013	4.71	2.67	0.14	0.00	24.83	24.69	0.61	0.01	0.01	26.27	26.27	28.67	HGLOK
12	I-12	I-14	0.3800	0.6400	0.60	1.00	0.60	0.2280	0.3840	15.33	1.05	6.88	2.64	98	1	18	0	1.7671	0.22	0.013	4.71	2.67	0.20	0.39	24.30	24.10	1.50	0.06	0.06	26.27	26.20	28.67	HGLOK
13	I-13	I-14	0.3200	0.3200	0.60	1.00	0.60	0.1920	0.1920	15.00	0.89	6.95	1.33	68	1	18	0	1.7671	0.22	0.013	4.71	2.67	0.14	0.00	24.83	24.69	0.76	0.02	0.01	26.20	26.19	28.67	HGLOK
14	I-14	OUT	0.6900	1.6500	0.60	1.00	0.60	0.4140	0.9900	15.83	1.87	6.79	6.72	137	1	24	0	3.1416	1.24	0.013	25.27	8.04	1.70	0.00	24.10	22.40	2.14	0.09	0.12	26.12	26.00	28.67	HGLOK

STORM SEWER CALCULATIONS (100-YEAR FREQUENCY STORM)																																	
DRAINAGE AREA	FROM MH	TO MH	AREA	CUM. AREA	RUNOFF COEFF. C	FREQUENCY CORRECTION FACTOR	Cf*C	Cf*C*A	SUM OF Cf*C*A	TIME OF CONC.		INTENSITY i	SUM OF FLOWS	REACH LENGTH	PIPE COUNT	DIAM OR RISE	SPAN	AREA	SLOPE	MANNINGS N"	DESIGN CAPACITY	DESIGN VELOCITY	FALL	MH DROP	FLOWLINE UP STREAM	FLOWLINE DOWN STREAM	ACTUAL VELOCITY	HYDRAULIC GRADIENT	CHANGE IN HEAD	HYD GRAD UP STREAM	HYD GRAD DOWN STREAM	GUTTER UP STREAM	
			(ac)	(ac)		Cf	C*Cf <= 1.0			(min)		(in/hr)	(cfs)	(ft)		(in)	(in)	(sf)	(%)		(cfs)	(fps)	(ft)	(ft)	(ft)	(ft)	(fps)	(%)	(ft)	(ft)	(ft)	(ft)	

SYSTEM (100 Year)																																	
1	I-1	I-2	2.0000	2.0000	0.60	1.00	0.60	1.2000	1.2000	15.00	8.30	10.38	12.45	32	1	24	0	3.1416	0.22	0.013	10.61	3.38	0.07	0.00	24.53	24.46	3.96	0.30	0.10	28.59	28.49	28.37	HGL>GUTTER!
2	I-2	I-5	1.4500	3.4500	0.60	1.00	0.60	0.8700	2.0700	15.17	5.99	10.32	21.36	294	1	30	0	4.9087	0.20	0.013	18.58	3.78	0.60	0.00	24.46	23.86	4.35	0.27	0.79	28.49	27.70	28.37	HGL>GUTTER!
3	I-3	I-5	0.2600	0.2600	0.60	1.00	0.60	0.1560	0.1560	15.00	1.08	10.38	1.62	32	1	18	0	1.7671	0.22	0.013	4.93	2.79	0.07	0.00	24.53	24.46	0.92	0.02	0.01	27.70	27.69	28.70	HGLOK
4	I-4	I-5	0.3200	0.3200	0.60	1.00	0.60	0.1920	0.1920	15.00	1.33	10.38	1.99	60	1	18	0	1.7671	0.22	0.013	4.71	2.67	0.12	0.00	24.55	24.43	1.13	0.04	0.02	27.69	27.67	28.37	HGLOK
5	I-5	MH-1	0.5500	4.5800	0.60	1.00	0.60	0.3300	2.7480	16.84	2.16	9.81	26.96	34	1	30	0	4.9087	0.18	0.013	17.28	3.52	0.06	0.00	23.26	23.20	5.49	0.43	0.15	27.67	27.52	28.37	HGLOK
MH-1	MH-1	I-7			0.60	1.00	0.60						18.13	208	1	30	0	4.9087	0.20	0.013	18.26	3.72	0.41	0.00	23.20	22.79	3.69	0.19	0.40	27.52	27.12		HGLOK
6	I-6	I-7	0.9400	0.9400	0.60	1.00	0.60	0.5640	0.5640	15.00	3.90	10.38	5.85	32	1	18	0	1.7671	0.22	0.013	4.93	2.79	0.07	0.00	24.53	24.46	3.31	0.31	0.10	27.12	27.02	28.47	HGLOK
7	I-7	I-10	0.2500	5.7700	0.60	1.00	0.60	0.1500	3.4620	18.12	0.95	9.46	32.76	78	1	36	0	7.0686	0.19	0.013	29.33	4.15	0.15	0.00	22.79	22.64	4.64	0.24	0.19	27.02	26.83	28.47	HGLOK
8	I-8	I-9	1.1400	1.1400	0.60	1.00	0.60	0.6840	0.6840	15.00	4.73	10.38	7.10	32	1	24	0	3.1416	0.19	0.013	9.82	3.13	0.06	0.00	24.54	24.48	2.26	0.10	0.03	26.83	26.80	28.37	HGLOK
9	I-9	I-10	1.1000	2.2400	0.60	1.00	0.60	0.6600	1.3440	15.17	4.54	10.32	13.87	207	1	30	0	4.9087	0.22	0.013	18.39	3.75	0.41	0.00	24.48	24.07	2.83	0.11	0.24	26.80	26.57	28.37	HGLOK
10	I-10	OUT	0.4300	8.4400	0.60	1.00	0.60	0.2580	5.0640	18.52	1.61	9.36	47.41	175	1	42	0	9.6211	0.19	0.013	44.47	4.62	0.34	1.43	22.64	22.30	4.93	0.22	0.39	26.39	26.00	28.67	HGLOK
11	I-11	I-12	0.4600	0.4600	0.60	1.00	0.60	0.2760	0.2760	15.00	1.91	10.38	2.86	68	1	18	0	1.7671	0.22	0.013	4.71	2.67	0.14	-24.83	24.83	24.69	1.62	0.07	0.05	26.55	26.50	28.67	HGLOK
12	I-12	I-14	0.4200	0.8800	0.60	1.00	0.60	0.2520	0.5280	15.33	1.72	10.27	5.42	98	1	18	0	1.7671	0.22	0.013	4.71	2.67	0.20	0.39	24.30	24.10	3.07	0.26	0.26	26.50	26.24	28.67	HGLOK
13	I-13	I-14	0.1700	0.1700	0.60	1.00	0.60	0.1020	0.1020	15.00	0.71	10.38	1.06	68	1	18	0	1.7671	0.22	0.013	4.71	2.67	0.14	0.00	24.83	24.69	0.60	0.01	0.01	26.24	26.24	28.67	HGLOK
14	I-14	OUT	0.5000	1.5500	0.60	1.00	0.60	0.3000	0.9300	15.83	2.02	10.11	9.40	137	1	24	0	3.1416	1.28	0.013	25.71	8.18	1.76	0.00	24.16	22.40	2.99	0.17	0.24	26.24	26.00	28.67	HGLOK

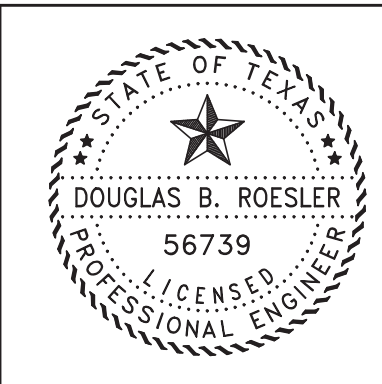
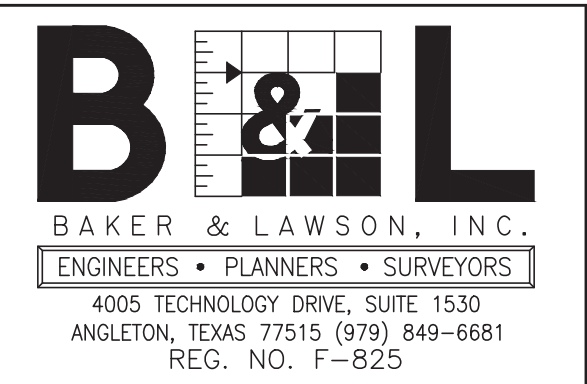
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NO.	DATE	DESCRIPTION	APPROVED	
REVISIONS				




NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR
DRAWN BT
CHECKED DR
DATE 3/7/2025



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this document was
authorized by
Douglas B. Roesler
P.E. 56739

 03-07-2025

OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: _____ 1" = 50'

PROFILE: _____

HORIZONTAL: _____

VERTICAL: _____

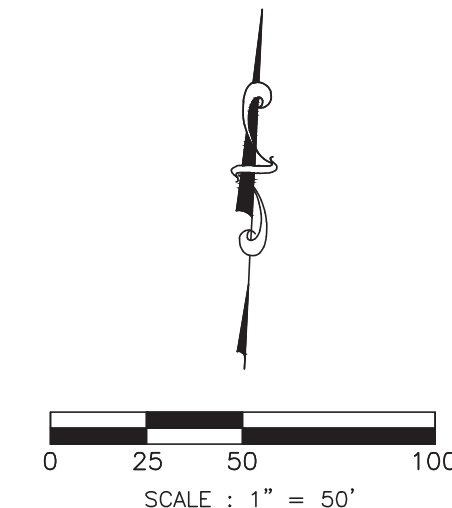
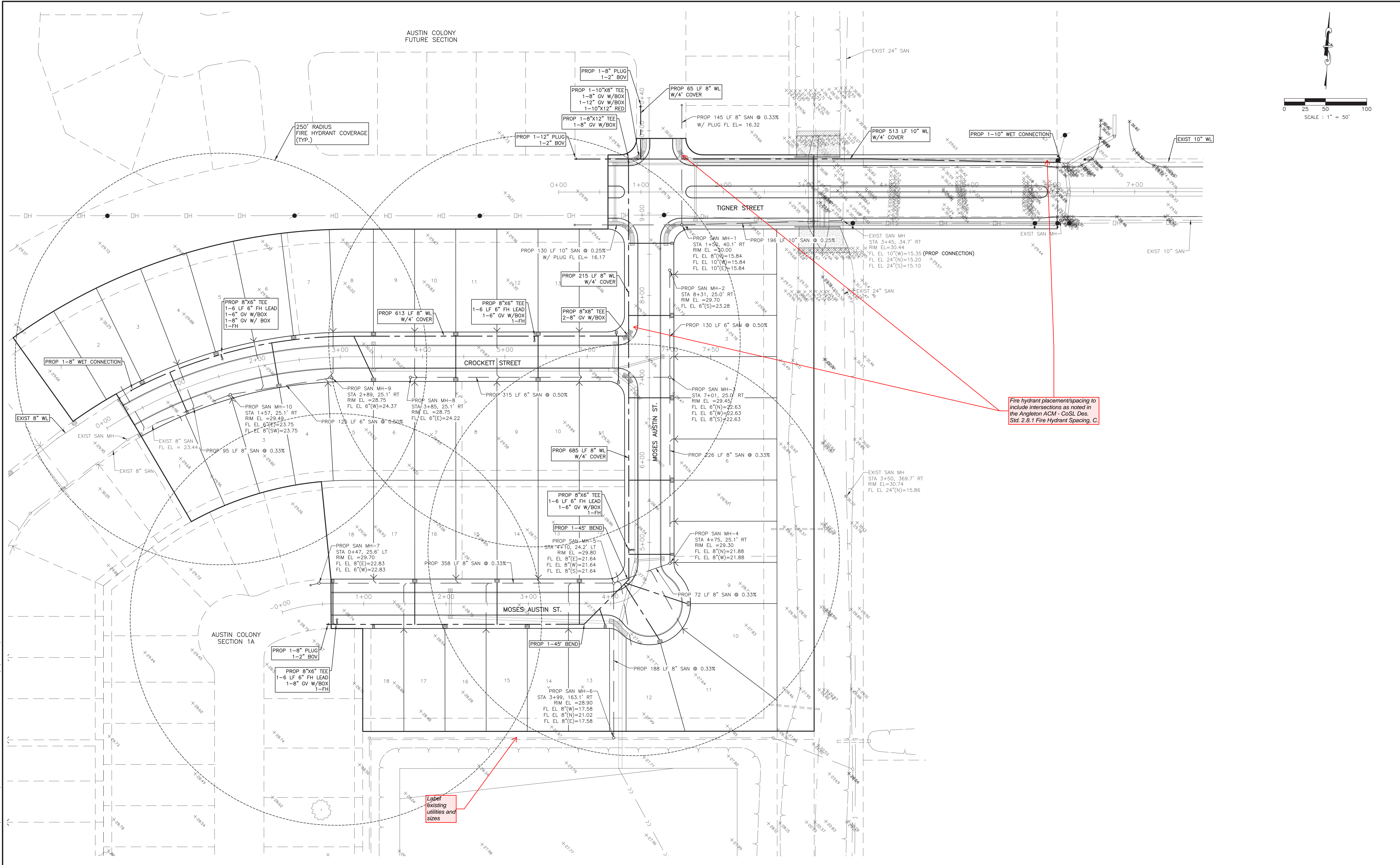
PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

PROPOSED GRADING

PROJECT NO. 16182

6

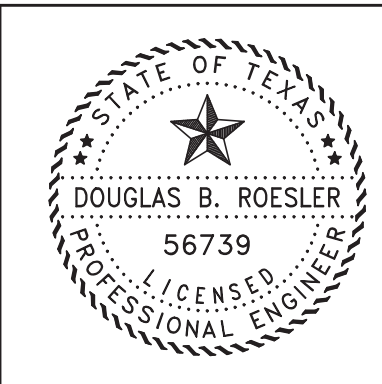
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NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/7/2025

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



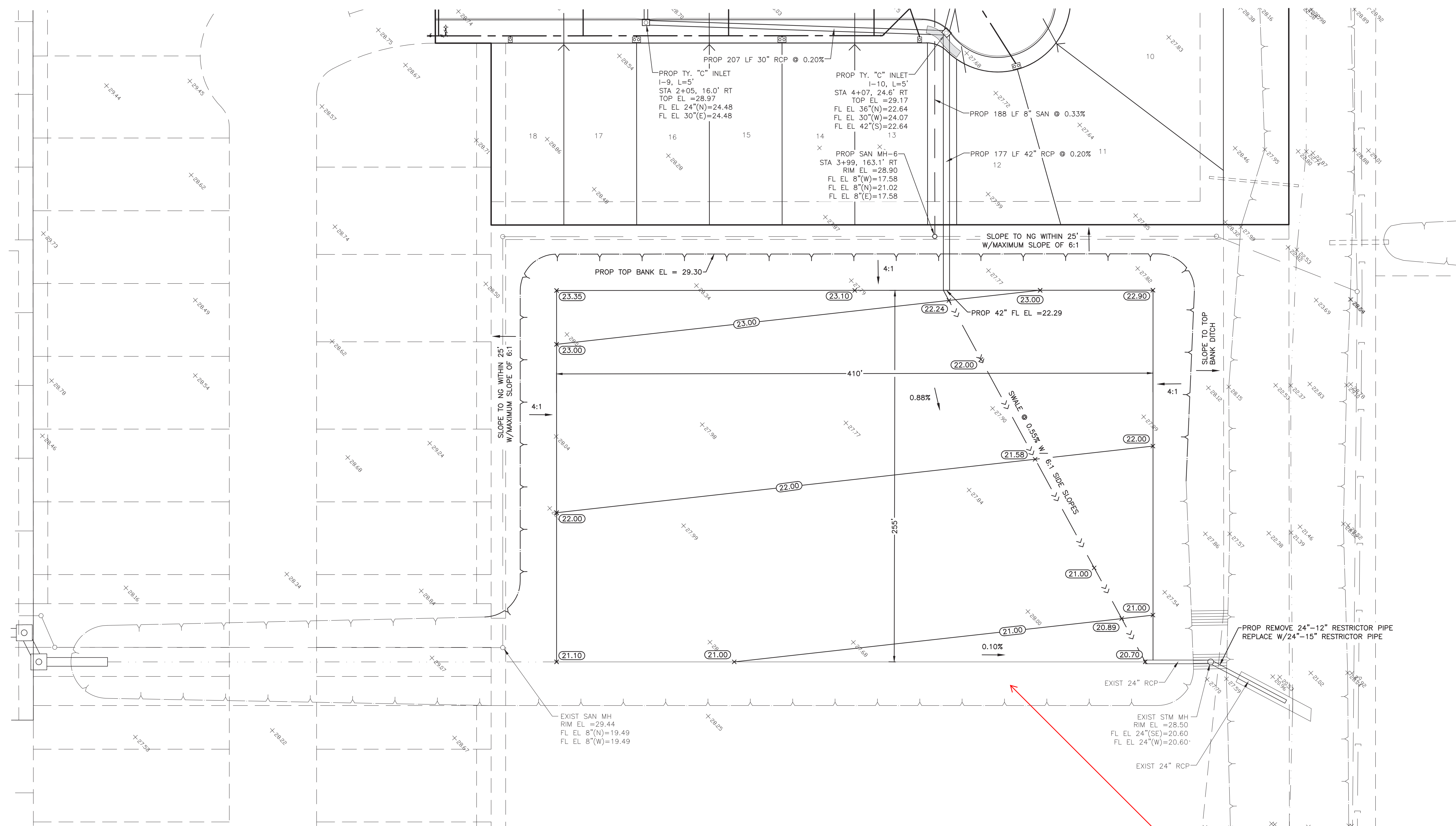
The seal appearing on this document was authorized by Douglas B. Roesler P.E. 56739
03-07-2025

OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: 1" = 50'
PROFILE:
HORIZONTAL:
VERTICAL:

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

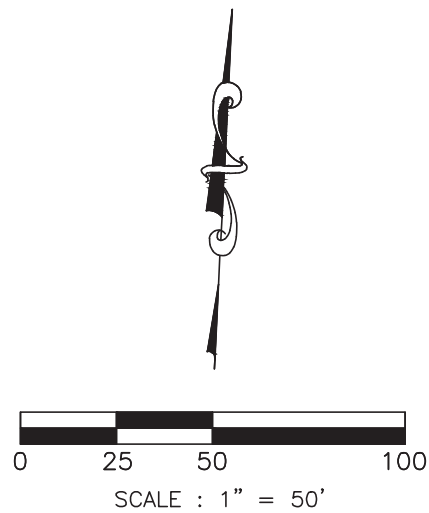
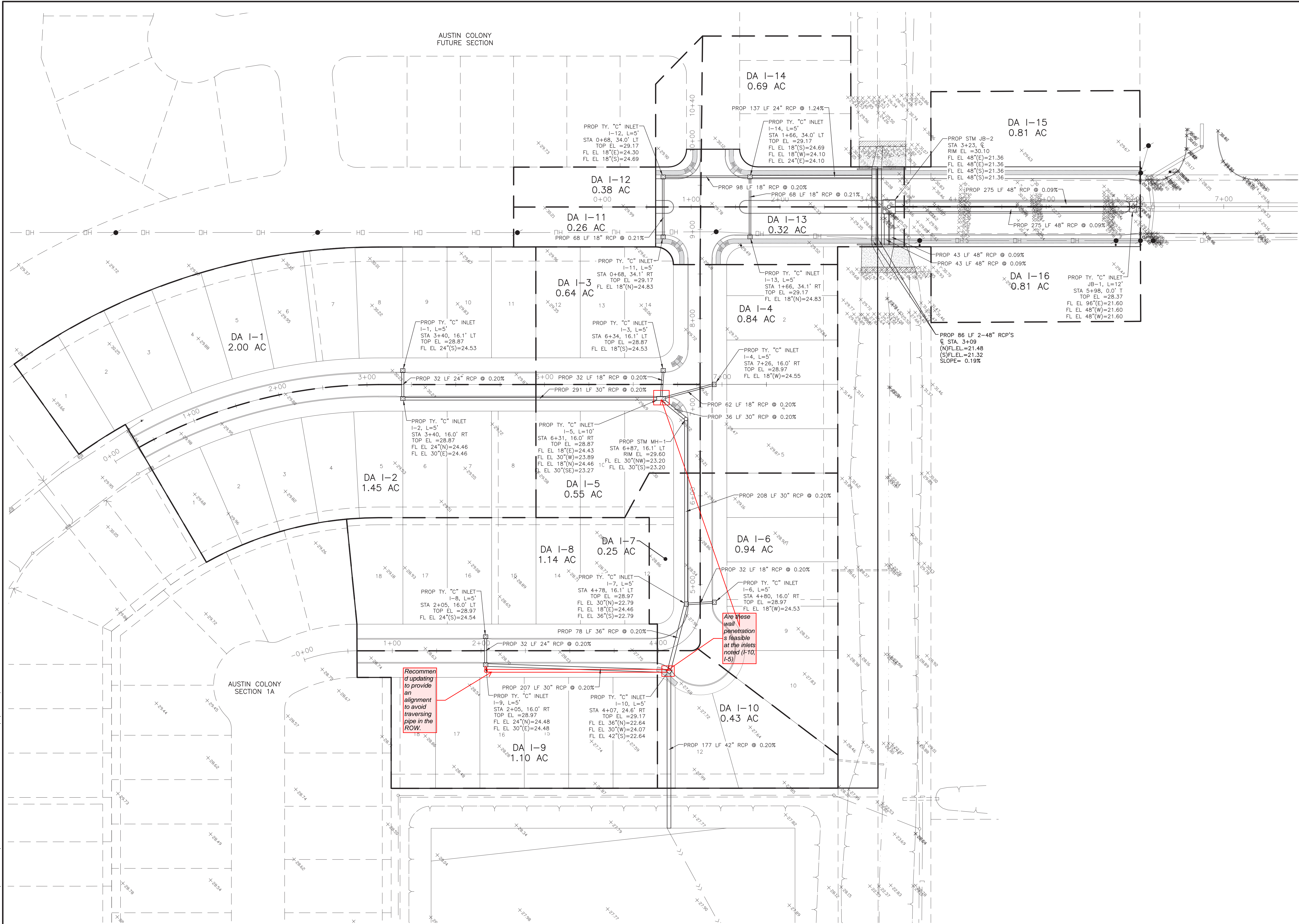
UTILITY LAYOUT
PROJECT NO. 16182



Please include the cross sections for the proposed pond as noted

DETENTION POND LAYOUT AND CROSS SECTIONS

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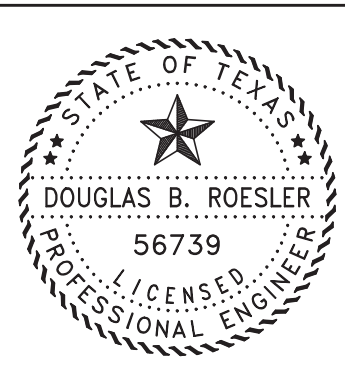
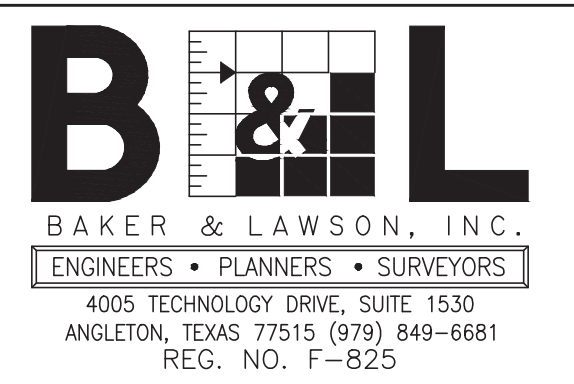


SYMBOLS LEGEND

- EXIST NATURAL GROUND ELEVATION
- PROP GRADE ELEVATION
- PROP TOP OF 4" CURB ELEVATION
- PROP RIM ELEVATION OF CURB INLET
- PROP GUTTER LINE ELEVATION
- PROP TOP OF GRATE INLET
- DOUBLE WATER METER
- SINGLE WATER METER
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/7/2025



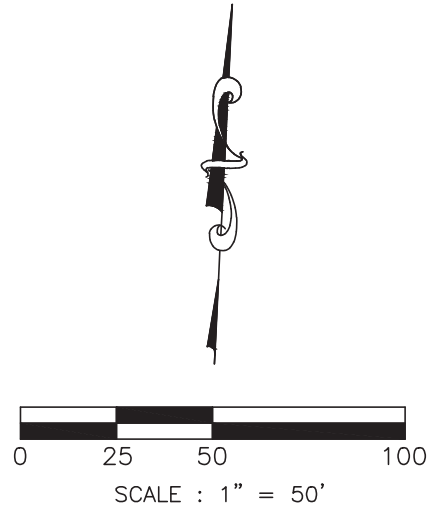
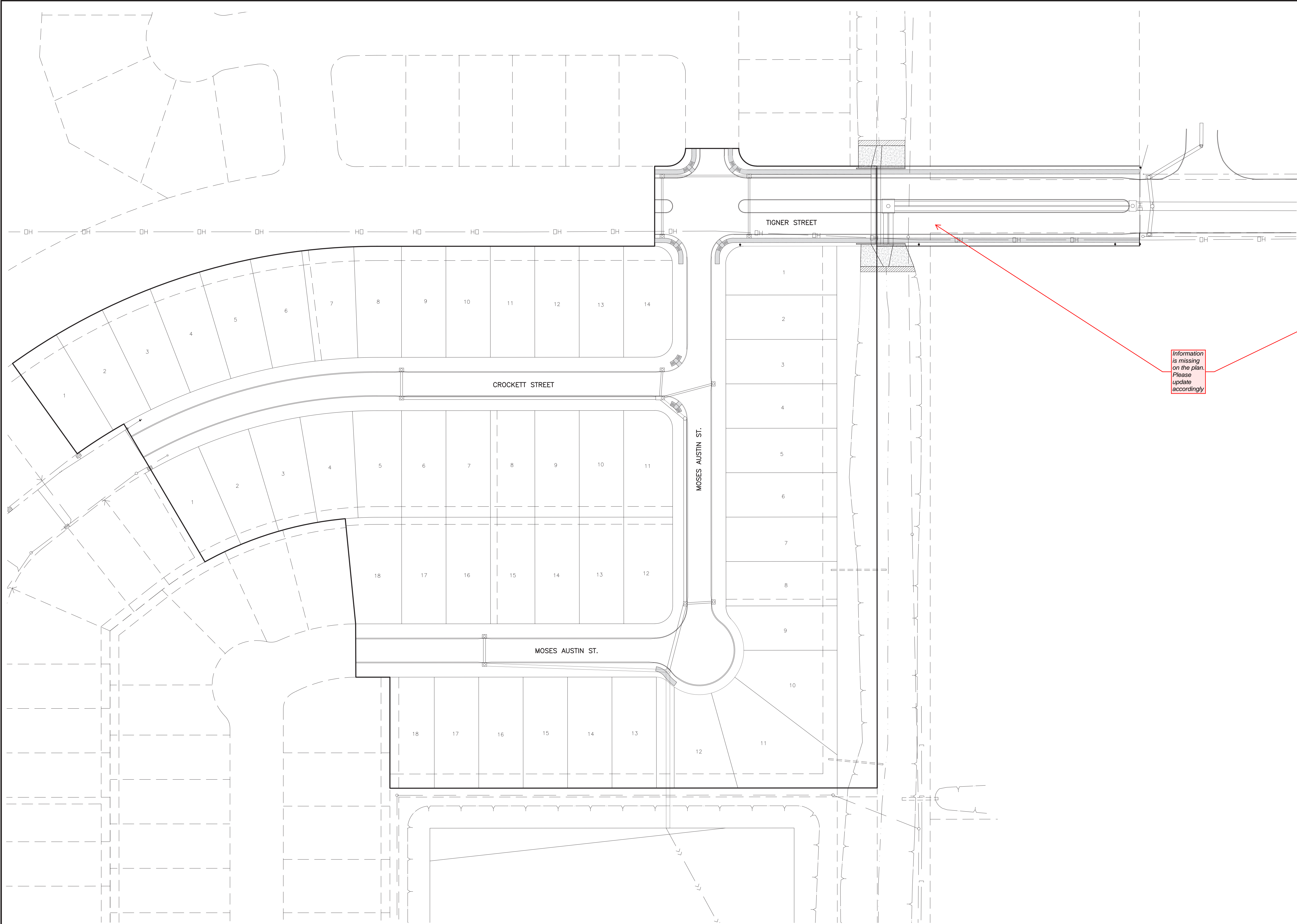
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OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: 1" = 50'
PROFILE:
HORIZONTAL:
VERTICAL:

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

DRAINAGE MAP
PROJECT NO. 16182



EARTHWORK VOLUME:	
CUT :	CuYd
FILL :	CuYd
NET :	CuYd (FILL)

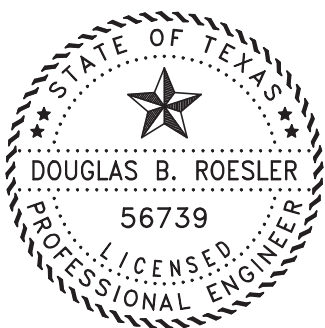
ESTIMATE CuYd UTILITY
INSTALLATION CUT FOR LOT FILL

Information
is missing
on the plan.
Please
update
accordingly

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR
DRAWN BT
CHECKED DR
DATE 3/7/2025

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REG. NO. F-825



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03-07-2025

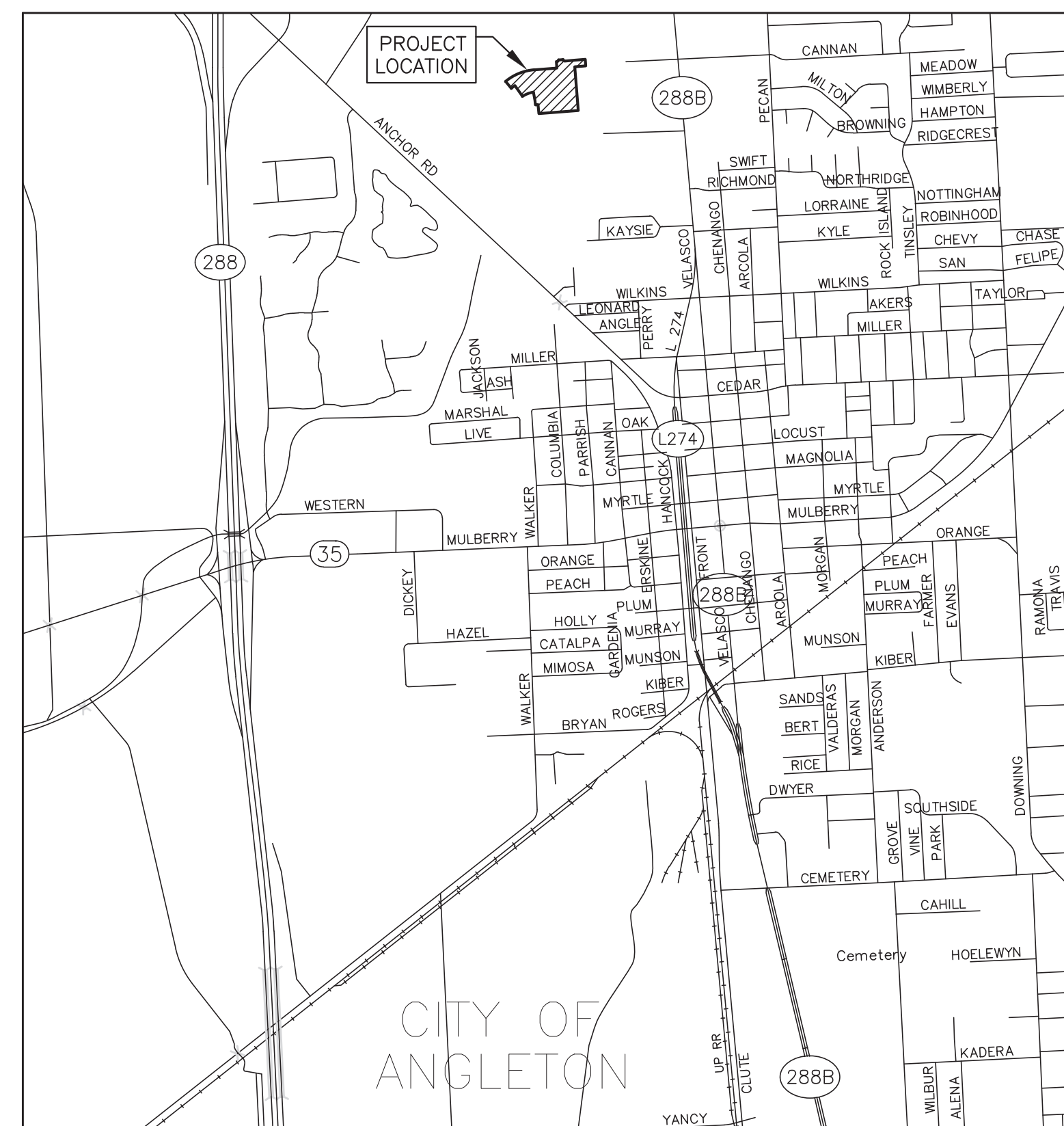
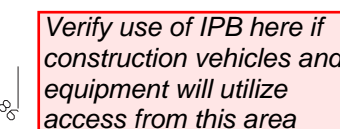
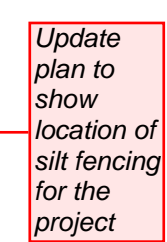
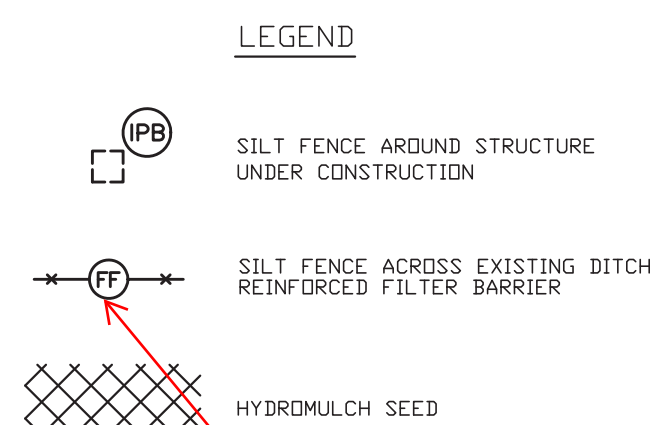
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Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: 1" = 50'
PROFILE:
HORIZONTAL: _____
VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

CUT AND FILL

PROJECT NO. 16182



PROJECT NAME: AUSTIN COLONY SUBDIVISION SECTION 1B
PROJECT ADDRESS/LOCATION: NE SIDE OF CR 44 (ANCHOR RD.)
AND 1,000' SE OF CR 340 (CARR RD.)
CITY: ANGLETON STATE: TX. ZIP CODE: 77515
LATITUDE: 95°25'34.9" LONGITUDE: 29°11'19.2" COUNTY: BRAZORIA
NAME OF RECEIVING WATERS: GULF OF MEXICO

☐ UNLIKELY ☐ ONCE PER WEEK ☐ CONTINUAL
☒ ONCE PER MONTH ☐ ONCE PER DAY

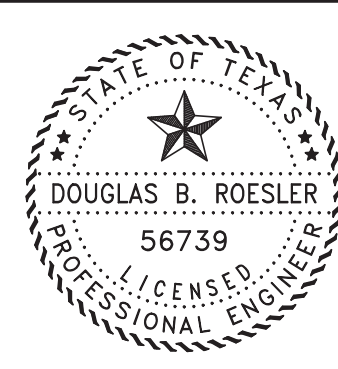
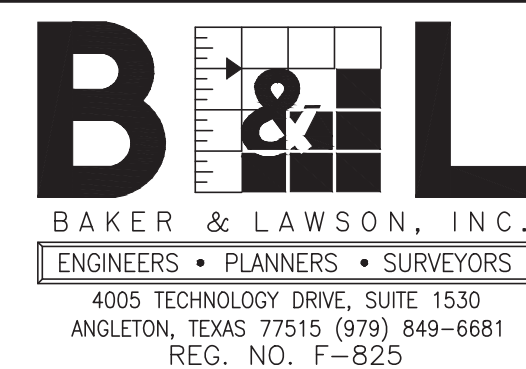
ARE THERE ANY LISTED ENDANGERED OR THREATENED SPECIES, OR DESIGNATED CRITICAL HABITAT IN THE PROJECT AREA?

☐ YES ☒ NO

ELIGIBILITY WITH REGARD TO PROTECTION OF ENDANGERED SPECIES HAS BEEN SATISFIED THROUGH THE INDICATED SECTION OF PART 1.B.3.e.(2) OF THE PERMIT.

(a) ☒ (b) ☐ (c) ☐ (d) ☐

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/7/2025



The seal appearing on
this document was
authorized by
Douglas B. Roesler
P.E. 56739

OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynarea@swbell.net (713) 993-6453

PLAN: _____ 1" = 60'

PROFILE: _____

HORIZONTAL: _____

VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

SWPPP LAYOUT

PROJECT NO. 16182

1. SITE DESCRIPTION

A. NATURE OF THE CONSTRUCTION ACTIVITY:

AUSTIN COLONY SUBDIVISION SECTION 1B, ANGLETON, BRAZORIA COUNTY, TEXAS. BEING A 15.9 ACRE WHICH WILL BE DEVELOPED INTO A RESIDENTIAL SUBDIVISION OF 50 Lots (50' & 60' WIDE). CONSTRUCTION WILL INCLUDE UNDERGROUND UTILITIES, STORM SEWERS, CONCRETE ROADWAYS WITH CURBS AND DETENTION POND EXCAVATION WITH MATERIAL SPREAD FOR LOT GRADING.

B. INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

STREET RIGHT OF WAY AND LOT AREAS WILL BE STRIPPED OF ALL VEGETATIVE MATTER. THIS MATERIAL WILL BE STOCKPILED ADJACENT TO THE WORK TO BE SPREAD ON DEVELOPED LOTS AFTER FINAL GRADING. UTILITY AND STORM SEWER CONSTRUCTION WILL REQUIRE TRENCHING. EXCAVATION FOR ROADWAY SUBGRADE AND DETENTION POND WILL INVOLVE SPREADING EXCAVATED MATERIAL ON ADJACENT LOTS. RAINFALL RUNOFF WILL BE DIRECTED TO THE STREET GUTTERS AND TO THE CONSTRUCTED STORM SEWER SYSTEM. TRUCKS WILL BE USED TO DELIVER MATERIAL TO THE PROJECT INCLUDING LIME, CONCRETE, UTILITY AND STORM SEWER MATERIALS AND OTHER CONSTRUCTION MATERIALS. TRUCKS WILL ALSO BE USED TO HAUL CONSTRUCTION DEBRIS AWAY FROM THE SITE. THESE TRUCKS WILL BE ROUTED ALONG CR 44 (ANCHOR RD.) FOR INGRESS AND EGRESS. RUTTING DURING WET WEATHER WILL PROVIDE POTENTIAL FOR TRACKING MUD ALONG THE ROUTE.

C. TOTAL PROJECT AREA:

10.7 ACRES

D. TOTAL AREA TO BE DISTURBED:

10.7 ACRES

WEIGHTED RUNOFF COEFFICIENT (BEFORE CONSTRUCTION):

0.25

(AFTER CONSTRUCTION):

0.60

E. REFER TO GENERAL LOCATION MAP AND SITE MAP FOR DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES; AREAS OF SOIL DISTURBANCE; AREAS WHICH WILL NOT BE DISTURBED; LOCTIONS OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS; LOCATIONS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR; LOCATION OF OFF-SITE MATERIAL, WASTE, BORROW OR EQUIPMENT STORAGE AREAS; SURFACE WATERS (INCLUDING WETLANDS); AND LOCATIONS WHERE STORM WATER DISCHARGES TO A SURFACE WATER.

F. LOCATION AND DESCRIPTION OF ANY DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTION:

G. NAME OF RECEIVING WATERS:

RUNOFF WILL BE COLLECTED IN THE STORM SEWER SYSTEM AND ROUTED TO THE DETENTION POND. THE POND OUTFALLS INTO ANGLETON DRAINAGE DISTRICT DITCH 10 WHICH FLOWS TO OYSTER CREEK AND THEN TO THE GULF OF MEXICO.

AREAL EXTENT AND DESCRIPTION OF WETLAND OR SPECIAL AQUATIC SITE AT OR NEAR THE SITE WHICH WILL BE DISTURBED OR WHICH WILL RECEIVE DISCHARGES FROM DISTURBED AREAS OFTHE PROJECT.

NONE

H. REFER TO FEDERAL REGISTER, VOLUME 63, NO.128, MONDAY JULY 6, 1998, PAGES 36497 TO 36515 FOR REQUIREMENTS OF NPDES GENERAL PERMITS FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES IN REGION 6.

I. LISTED ENDANGERED OR THREATENED SPECIES OR CRITICAL HABITAT FOUND IN PROXIMITY TO THE CONSTRUCTION ACTIVITY:

NONE

J. PROPERTY LISTED OR ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES:

NONE

2. CONTROLS

NARRATIVE – SEQUENCE OF CONSTRUCTION ACTIVITIES AND APPROPRIATE CONTROL MEASURES DURING CONSTRUCTION

THE ORDER OF CONSTRUCTION WILL BEGIN WITH STRIPPING OF ALL VEGETATION FROM THE WORK AREA.

1. INSTALL SILT FENCE AROUND THE PERIMETER OF THE AREA TO BE DISTURBED. THE ORDER OF ACTIVITIES WILL BEGIN WITH THE COMPLETE STRIPPING OF ALL AREAS TO RECEIVE FILL MATERIAL, REMOVED VEGETATION TO BE STOCKPILED ADJACENT TO THE WORK TO BE SPREAD AFTER LOT GRADING IS COMPLETE TO FACILITATE VEGETATIVE GROWTH.

2. INSTALL WATER LINES, SANITARY SEWER LINES AND MANHOLES AND STORM SEWER PIPES, INLETS AND MANHOLES. INSTALL INLET PROTECTION BARRIERS AROUND ALL INLETS.

3. ROADWAY EXCAVATION, LIME STABILIZATION AND CONCRETE PAVING WILL FOLLOW UNDERGROUND UTILITY AND STORM SEWER CONSTRUCTION. DURING ROADWAY WORK, THE DETENTION POND WILL BE EXCAVATED AND MATERIAL SPREAD ON LOTS. INSTALL SILT FENCE IN THE BOTTOM OF THE POND UPSTREAM OF THE RESTRICTIVE OUTFALL CULVERT.

4. AS SOON AS CONCRETE CURBS ARE INSTALLED, PLACE 16" WIDE SOLID SOD BEHIND ALL CURBS.

5. THE DETENTION POND SHALL BE SEEDED AND FERTILIZED UPON COMPLETION OF THE EXCAVATION. ALL SEEDED AND FERITLIZED AREAS TO BE IRRIGATED TO ENSURE GROWTH.

A. EROSION AND SEDIMENT CONTROLS

EROSION AND SEDIMENT CONTROLS SHALL RETAIN SEDIMENT ON SITE TO THE EXTENT PRACTICABLE. CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS (WHERE APPLICABLE) AND GOOD ENGINEERING PRACTICES. OFFSITE SEDIMENT ACCUMULATIONS MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS WHEN CAPACITY HAS BEEN REDUCED BY 50%. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WALL SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.

SOIL STABILIZATION PRACTICES:	OWNER/DEVELOPER	GENERAL CNTRTR.	BUILDER	OTHER
TEMPORARY SEEDING				
PERMANENT PLANTING, SODDING, OR SEEDING		X		
MULCHING— WHERE INDICATED		X		
SOIL RETENTION BLANKET				
VEGETATIVE BUFFER STRIPS				
PRESERVATION OF NATURAL RESOURCES				
OTHER:				

THE FOLLOWING RECORDS SHALL BE MAINTAINED AND ATTACHED TO THIS SWPPP:
DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED.

STRUCTURAL PRACTICES:	OWNER/DEVELOPER	GENERAL CNTRTR.	BUILDER	OTHER
SILT FENCES		X		
HAY BALES				
ROCK BERMS				
DIVERSION, INTERCEPTOR, OR PERIMETER DIKES				
DIVERSION, INTERCEPTOR, OR PERIMETER SWALES				
DIVERSION DIKE AND SWALE COMBINATIONS				
PIPE SLOPE DRAINS				
ROCK BEDDING AT CONSTRUCTION EXIT				
TIMBER MATTING AT CONSTRUCTION EXIT				
SEDIMENT TRAPS				
SEDIMENT BASINS				
STORM INLET PROTECTION				
STONE OUTLET STRUCTURES				
OTHER:				

B. STORM WATER MANAGEMENT MEASURES INSTALLED DURING CONSTRUCTION TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION:
CURBS & GUTTERS STORM SEWERS

C. OTHER CONTROLS

NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE UNITED STATES, EXCEPT AS AUTHORIZED BY A PERMIT ISSUED UNDER SECTION 404 OF THE CLEAN WATER ACT.

WASTE MATERIALS: ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL CONTAINER. THE CONTAINER SHALL MEET ALL STATE AND CITY SOLID WASTE MANAGEMENT REGULATIONS. THE CONTAINER SHALL BE EMPTIED AS NECESSARY AND THE TRASH HAULED TO AN APPROPRIATE DUMP SITE. NO CONSTRUCTION MATERIALS WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINT, CLEANING SOLVENTS, ASPHALT PRODUCTS, PETROLEUM PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, AND CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR SHOULD BE CONTACTED IMMEDIATELY.

SANITARY WASTE: PORTABLE SANITARY FACILITIES WILL BE PROVIDED BY THE CONTRACTOR. ALL SANITARY WASTES WILL BE COLLECTED FROM PORTABLE UNITS AND SERVICED BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

OFFSITE VEHICLE TRACKING SHALL BE MINIMIZED BY:
HAUL ROADS DAMPENED FOR DUST CONTROL LOADED
X HAUL TRUCKS TO BE COVERED WITH TARPULIN
X EXCESS DIRT ON ROAD REMOVED DAILY STABILIZED
CONSTRUCTION ENTRANCE

OTHER: TRUCKS HAULING VEGETATION AND DEBRIS WILL BE MONITORED AND SHALL BE COVERED WITH TARPULINS IF REQUIRED TO PREVENT DUST OR OTHER PARTICLES FROM BLOWING OR FALLING FROM TRUCK.

REMARKS: ALL OPERATIONS WILL BE CONDUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNTS OF SEDIMENT THAT MAY ENTER THE RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY, OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.

3. MAINTENANCE

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF A REPAIR IS NECESSARY IT SHALL BE DONE AT THE EARLIEST TIME POSSIBLE, BUT NO LATER THAN SEVEN CALENDAR DAYS AFTER THE GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO DRAINAGE WAYS SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS. MAINTENANCE SHALL BE PERFORMED BEFORE THE NEXT ANTICIPATED STORM EVENT OR AS SOON AS PRACTICABLE.

4. INSPECTION

AN INSPECTION WILL BE PERFORMED BY THE PERMITEE EVERY FOURTEEN DAYS AS WELL AS AFTER EVERY ONE-HALF INCH OR GREATER RAINFALL EVENT. AN INSPECTION AND RAINFALL REPORT WILL BE MADE AFTER EACH INSPECTION. ANY DEFICIENCIES WILL BE NOTED AND APPROPRIATE CHANGES SHALL BE MADE TO THE SYSTEM TO COMPLY WITH REQUIREMENTS.

5. NON-STORMWATER DISCHARGES

FIRE HYDRANT FLUSHING
X BUILDING WASHDOWN WITHOUT DETERGENTS
X PAVEMENT WASHDOWN WITHOUT DETERGENTS
X CONDENSATE
UNCONTAMINATED GROUNDWATER
UNCONTAMINATED FOUNDATION DRAINS

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				DESIGNED DR
				DRAWN BT
				CHECKED DR
NO.	DATE	DESCRIPTION	APPROVED	DATE 3/7/2025

REVISIONS

B

&

L

BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

4005 TECHNOLOGY DRIVE, SUITE 1530

ANGLETON, TEXAS 77515 (979) 849-6681

REG. NO. F-825

STATE OF TEXAS

DOUGLAS B. ROESLER

56739

LICENSED PROFESSIONAL ENGINEER

03-07-2025

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OWNER:

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Tejas Viejo Land Company

5454 Newcastle Drive Unit# 1101

Houston, Texas 77081

waynerea@swbell.net (713) 993-6453

PLAN:

PROFILE:

HORIZONTAL:

VERTICAL:

PROJECT:

Austin Colony Subdivision

Section 1B - 50 Lots

CR 44 (Anchor Road), Angleton TX

SWPPP NARRATIVE

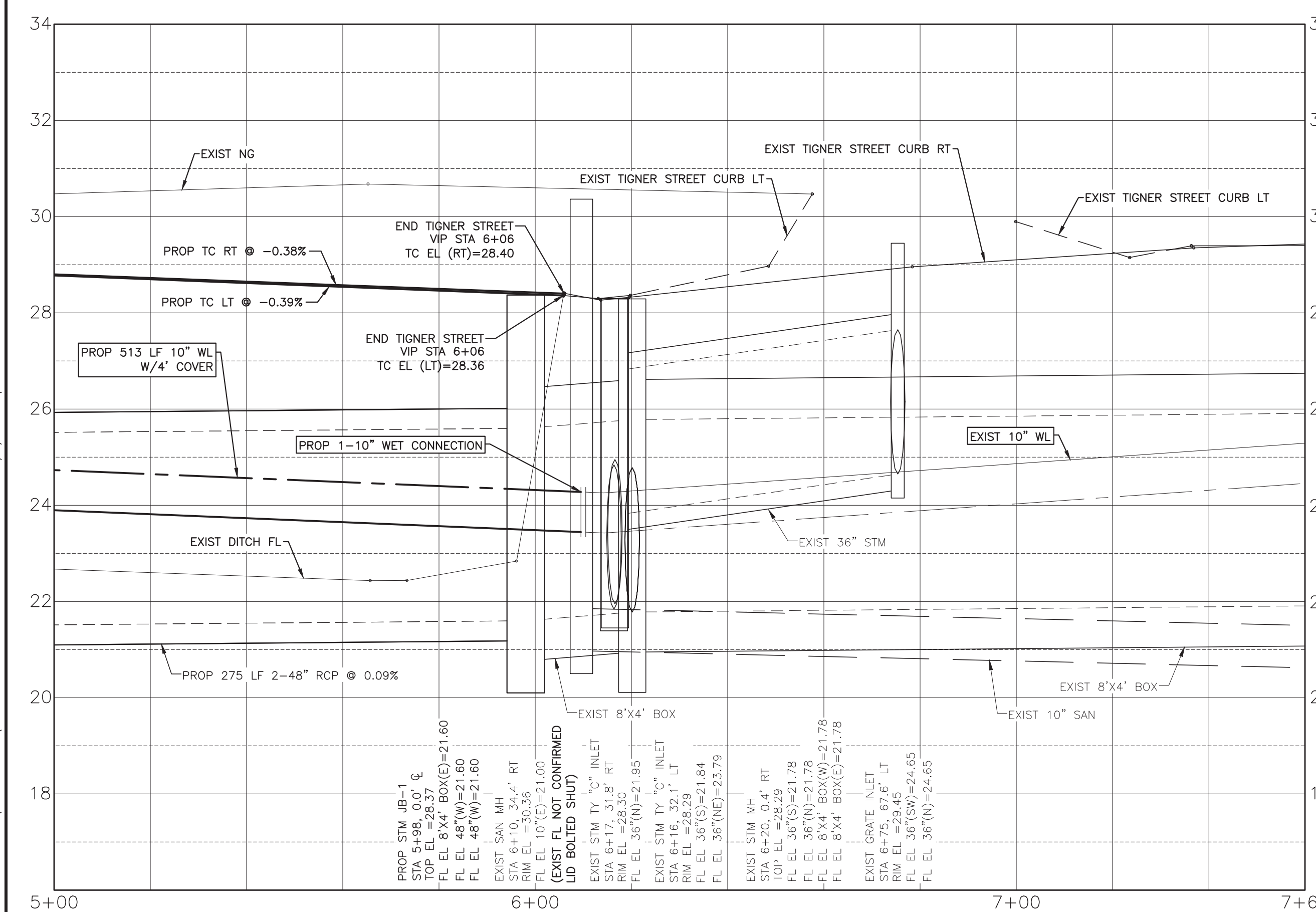
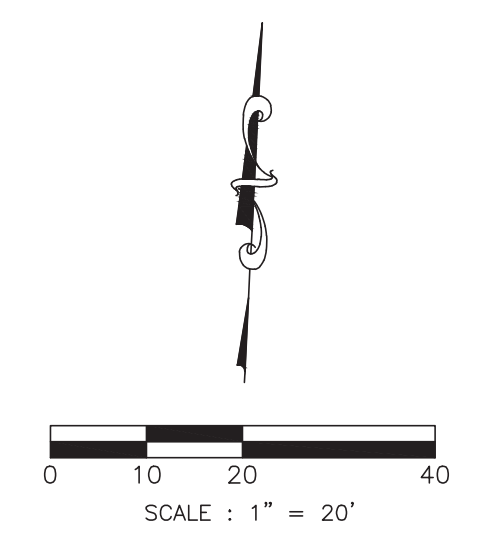
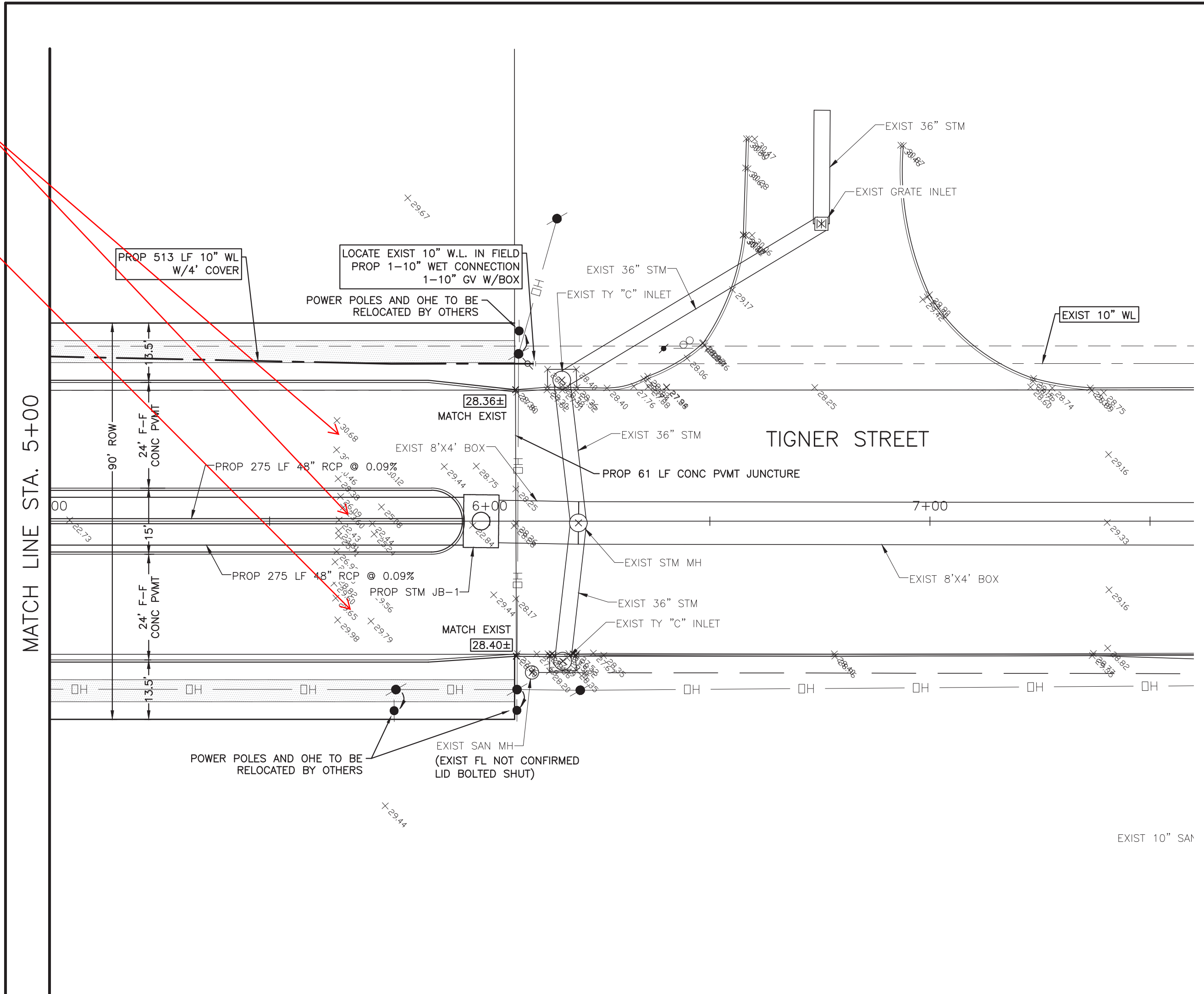
PROJECT NO. 16182

16182 SHEET SET SEC 1B.DWG

12

DATE: _____
FILE: _____

Show existing ditch highbank and flowline in plan



NOTE:
TOP OF CURB ELEVATION CALL OUTS ARE FOR 4" CURBS.
ALL CURBS ALONG TIGNER STREET ARE 6" CURBS. RAISE
CALL OUTS 0.17'. CURBS ALONG INTRERSECTION RADII ARE
6" CURBS RAISE CALL OUTS 0.17'.

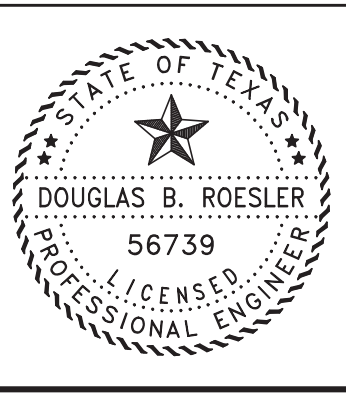
SYMBOLS LEGEND

- EXIST NATURAL GROUND ELEVATION
- PROPOSED GRADE ELEVATION
- PROPOSED TOP OF 4" CURB ELEVATION
- PROPOSED RIM ELEVATION OF CURB INLET
- PROPOSED GUTTER LINE ELEVATION
- PROPOSED TOP OF GRATE INLET
- DOUBLE WATER METER
- SINGLE WATER METER
- FIRE HYDRANT
- WATER VALVE
- TAPPING SLEEVE AND VALVE
- REDUCER
- STORM SEWER MANHOLE
- SANITARY SEWER MANHOLE
- TOP BANK
- STORM SEWER LINE (REINFORCED CONCRETE PIPE, ASTM C76)
- SANITARY SEWER LINE (D3034, SDR 26, 160 PR)
- WATERLINE (AWWA C900, CLASS 150, DR18)

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/7/2025

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825



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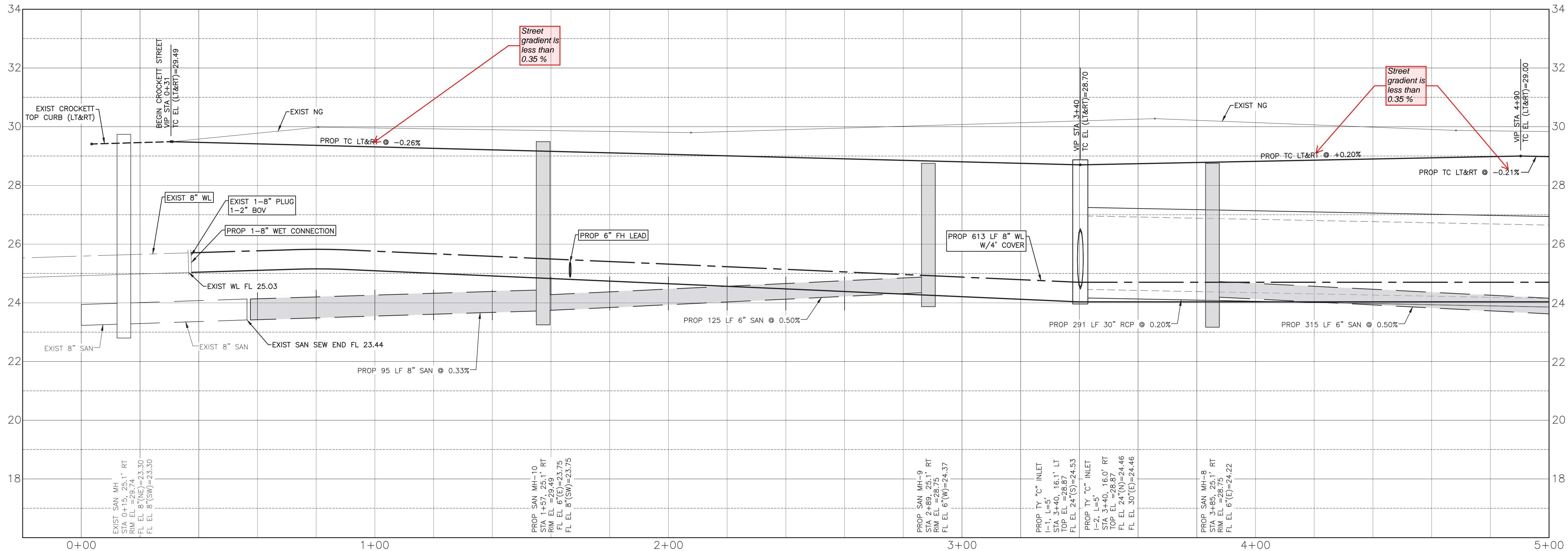
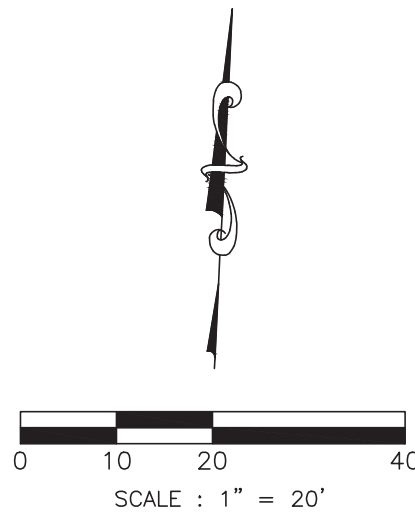
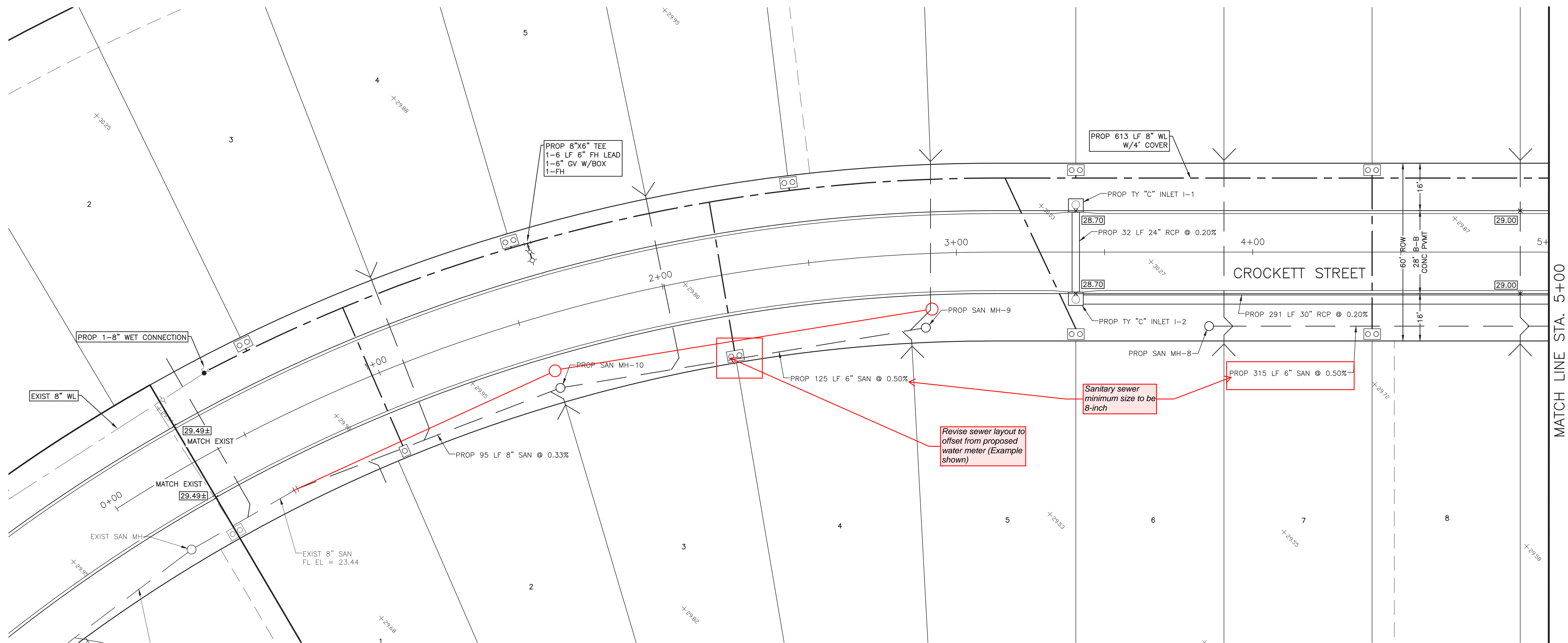
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PLAN: 1" = 20'
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HORIZONTAL: 1" = 2'
VERTICAL: 1" = 20'

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

PLAN & PROFILE
TIGNER STREET
STA. 5+00 TO 5+60
PROJECT NO. 16182

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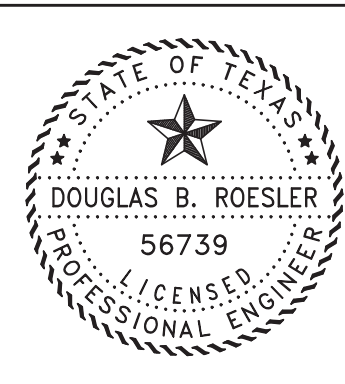
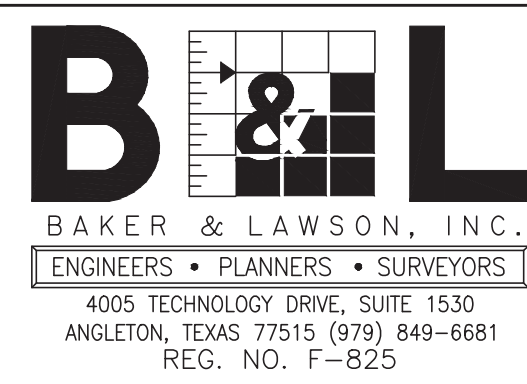
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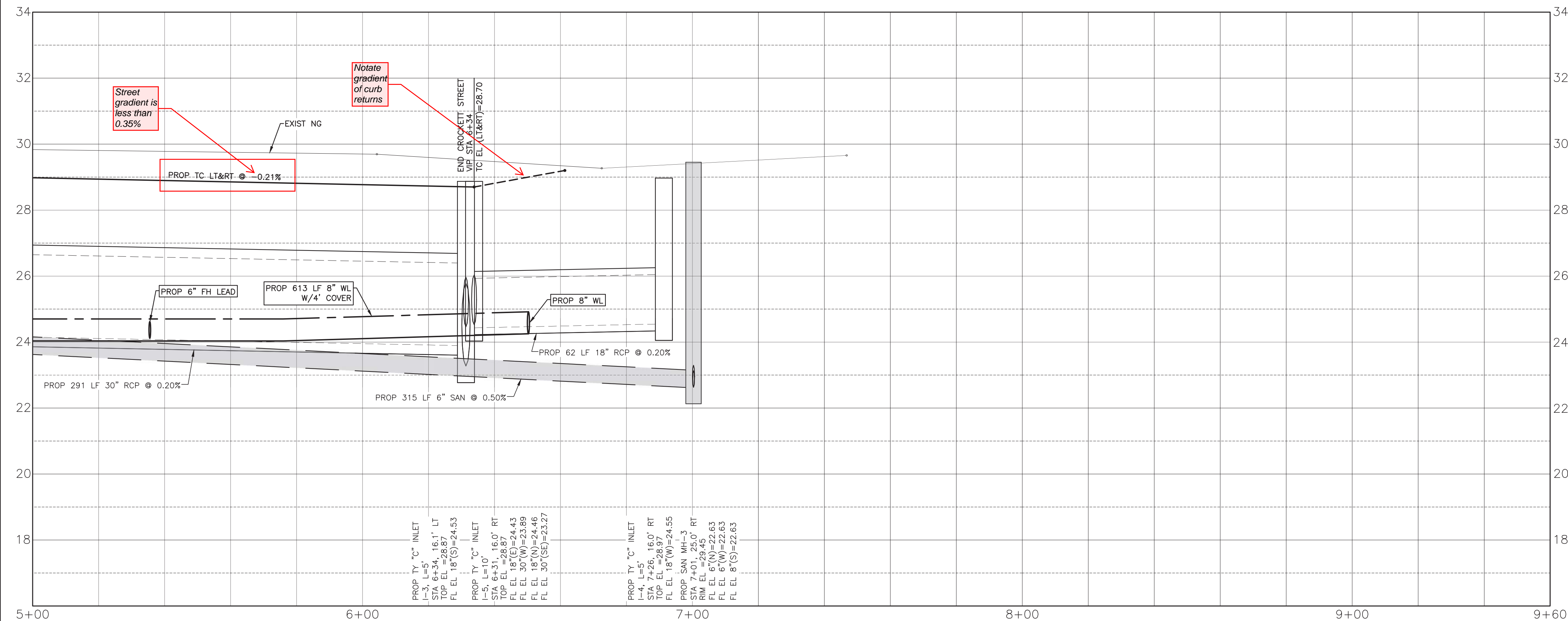
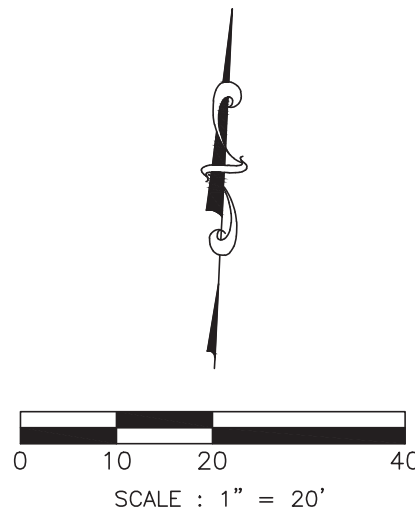
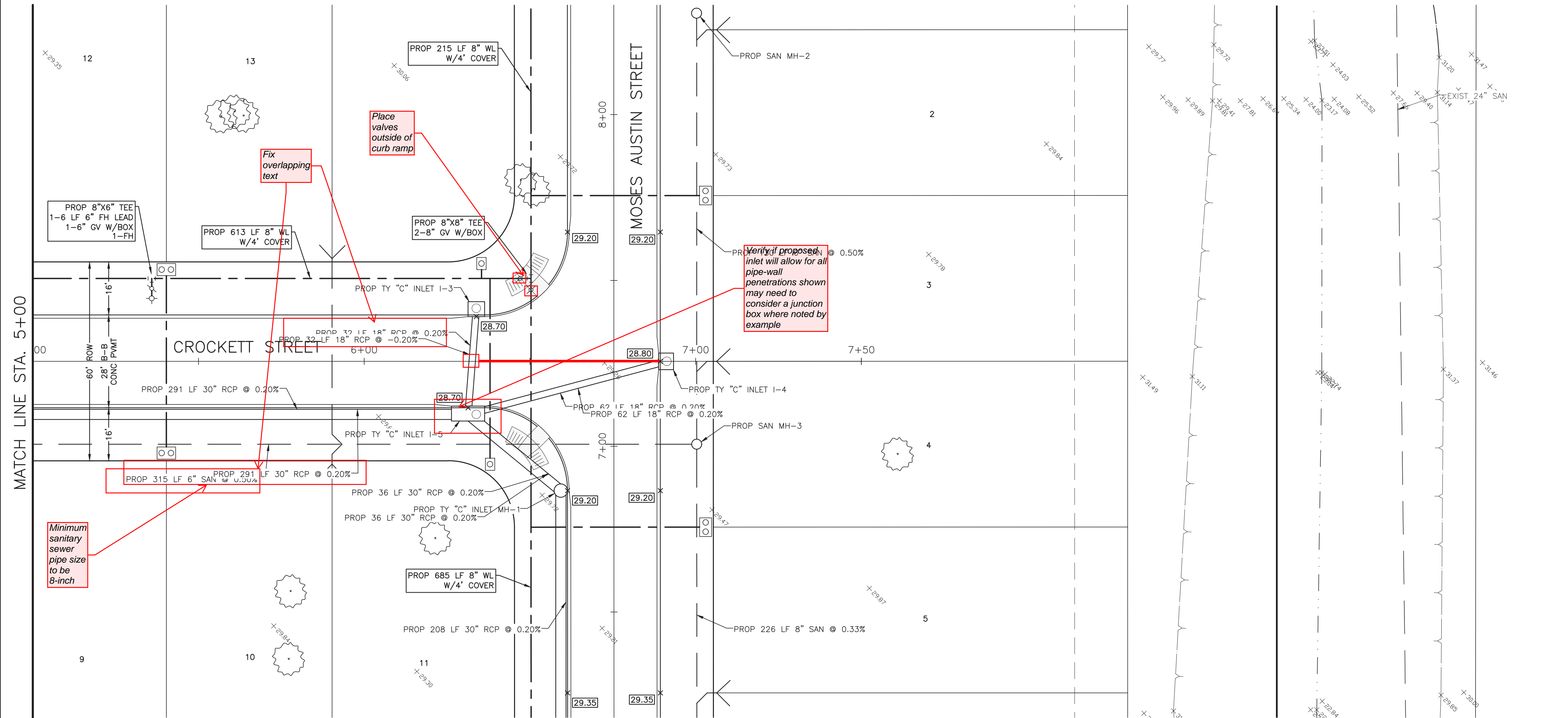
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PLAN: 1" = 20'
PROFILE:
HORIZONTAL: 1" = 2'
VERTICAL: 1" = 20'

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

PLAN & PROFILE
CROCKETT STREET
STA. 0+00 TO 5+00
PROJECT NO. 16182

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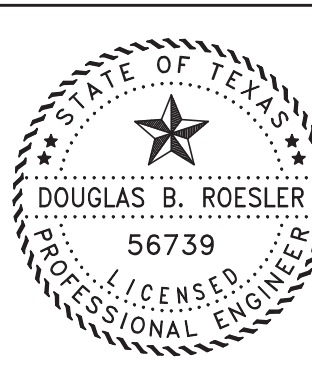
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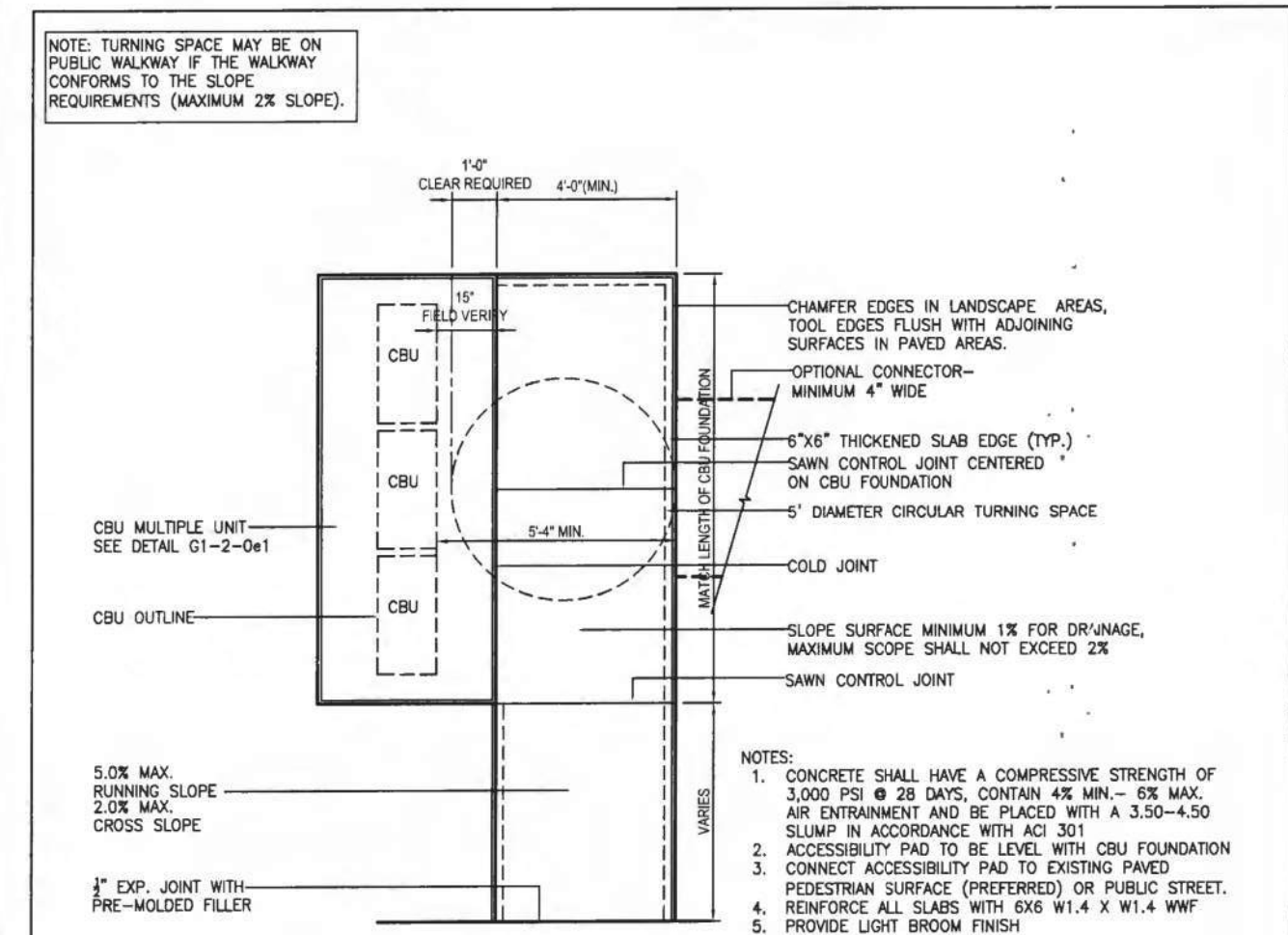
PLAN & PROFILE
CROCKETT STREET
STA. 5+00 TO 7+50

PROJECT NO. 16182

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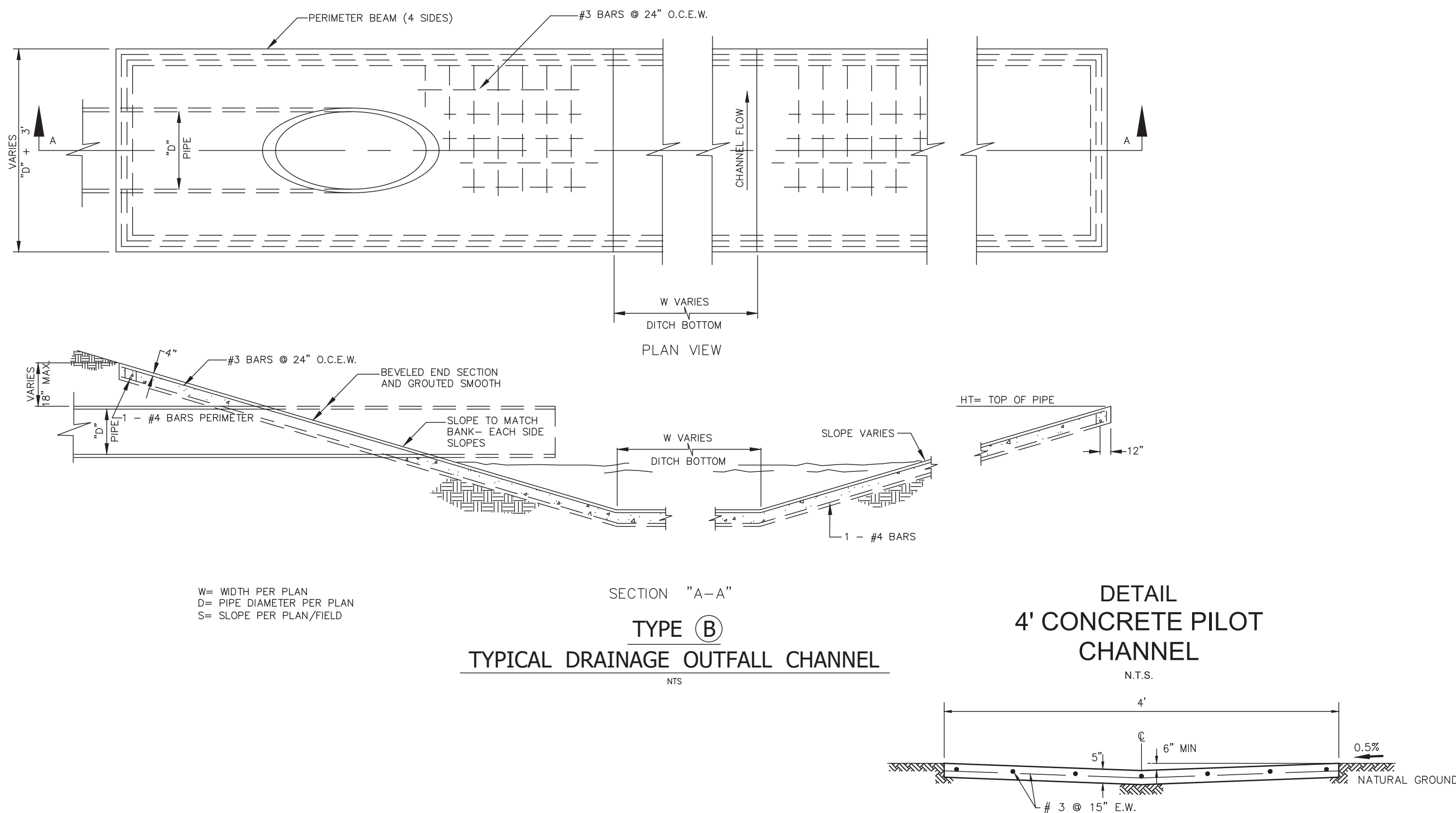
1. IF THE ACCESSIBLE ROUTE FROM THE CBU(S) CONNECTS WITH A STREET OR OTHER PAVED SURFACE AT A VERTICAL CURB, A CURB RAMP SHOULD BE INSTALLED IN ACCORDANCE WITH RE-4 REQUIREMENTS.



Paved Pedestrian Surface (if available) or Public Street

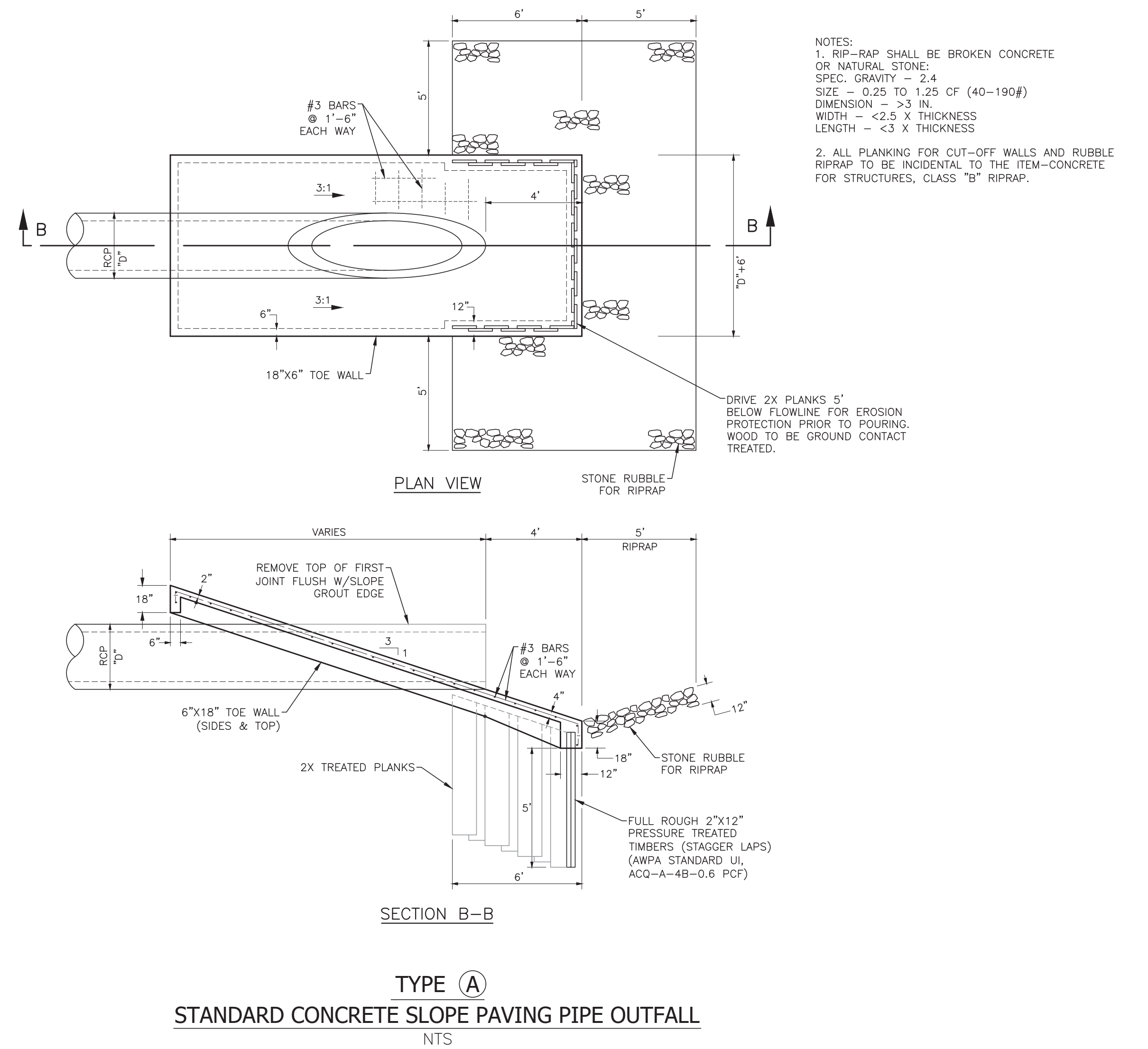
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UNITED STATES POSTAL SERVICE STANDARD DETAIL LIBRARY



NOTES:

1. 1" DEPRESSION FOR EACH 1' OF WIDTH.
2. WIDTH TO BE AT LEAST 1' WIDER THAN PIPE ENTERING POND




NOTES:

1. RIP-RAP SHALL BE BROKEN CONCRETE OR NATURAL STONE:
SPEC. GRAVITY = 2.4
SIZE = 0.25 TO 1.25 CF (40-190#)
DIMENSION = >3 IN.
WIDTH = <2.5 X THICKNESS
LENGTH = <3 X THICKNESS
2. ALL PLANKING FOR CUT-OUT WALLS AND RUBBLE RIPRAP TO BE INCIDENTAL TO THE ITEM-CONCRETE FOR STRUCTURES, CLASS "B" RIPRAP.


					DESIGNED	DR
					DRAWN	BT
					CHECKED	DR
NO.	DATE	DESCRIPTION			APPROVED	DATE
REVISIONS						3/6/2025

DESIGNED	DR
DRAWN	BT
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PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

MISCELLANEOUS DETAILS

PROJECT NO. 16182

HOT MIX ASPHALTIC BASE COURSE:

1. NO HOT MIX ASPHALTIC BASE MAY BE INSTALLED UNTIL THE SUBGRADE HAS BEEN PROPERLY PREPARED AND TESTED AS PER THE PLANS AND SPECIFICATIONS. THE SHALL BE CONDUCTED BY THE CITY OF SUGAR LAND AND APPROVED BY THE CITY OF SUGAR LAND BEFORE ANY BASE MATERIALS ARE INSTALLED.
2. HOT MIX ASPHALTIC BASE MATERIALS, HANDLING, AND INSTALLATION SHALL COMPLY WITH TxDOT STANDARDS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES.
3. HOT MIX ASPHALTIC MATERIALS SHALL BE AT TEMPERATURES BETWEEN 250°F AND 325°F, WHEN PLACED.
4. MATERIALS MAY NOT BE PLACED IN TEMPERATURES OR IF THE AMBIENT TEMPERATURE IS BELOW 50°F AND FALLING. MATERIALS MAY BE INSTALLED IF THE AMBIENT TEMPERATURE IS TAKEN IN THE SHADE AND IS 40°F AND RISING.
5. PLACE BASE COURSES 4 INCHES OR GREATER IN THICKNESS IN TWO OR MORE LAYERS, EACH HAVING A COMPACTED THICKNESS OF NOT GREATER THAN 4 INCHES.
6. BASE MATERIAL MAY ONLY BE PLACED AGAINST CLEAN, STRAIGHT EDGES. SAW CUTTING, FULL DEPTH, IS REQUIRED IF EXISTING EDGES ARE ROUGH OR UNEVEN.
7. THE ROLLER OR COMPACTOR WEIGHT WITHOUT UNDUE DISPLACEMENT OF THE ROLLER OR COMPACTOR WEIGHT WITHOUT UNDUE DISPLACEMENT OR HAIR CRACKING.
8. COMPACT SURFACE UNIFORMLY WITH ROLLERS OR TAMPERS IN LOCATIONS NOT ACCESSIBLE (I.E., ALONG CURBS, WALLS, ETC.).
9. UNLESS OTHERWISE SPECIFIED, COMPACT DENSITY TO NOT LESS THAN 95% OF MAXIMUM POSSIBLE DENSITY.
10. CERTIFICATE OF LAB. SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
11. ALL MATERIALS AND WORKSMANSHIP SHALL COMPLY TO A.S.T.M. ASPHALT INSTITUTE AND CITY OF SUGAR LAND REQUIREMENTS. FAILURE TO COMPLY WILL RESULT IN THE REPAID MATERIALS AND SUCH SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. DO NOT OPEN BASE TO TRAFFIC UNTIL IT CAN BE MAINTAINED IN GOOD CONDITION AND IS CAPABLE OF SUPPORTING VEHICLE WEIGHT WITHOUT DAMAGE OR DEGRADATION.
13. DENISE LANE SHALL BE TAKEN AT A MINIMUM OF AT LEAST ONE PER 300 LF OF DRIVE LANE OR ONCE PER 250 SQ. YD., WHICHEVER MAY APPLY AND SHALL BE REPLACED TO MEET MINIMUM REQUIREMENTS IN ABUTTING DRIVE LANES. FAILURE TO MEET MINIMUM REQUIREMENTS SHALL RESULT IN THE REPLACEMENT OF MATERIAL AT CONTRACTOR'S EXPENSE.

SHEET OF

22

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ASPHALTIC CONCRETE PAVEMENT:

- ASPHALTIC MATERIAL AND WORKMANSHIP SHALL COMPLY WITH ASTM C 33, ASTM C 131, ASTM C 136, AND TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS. ASPHALT SHALL BE TYPE D-100 UNLESS SPECIFICALLY NOTED AND APPROVED BY CITY OF SUGAR LAND ENGINEER.
- CONTRACTOR SHALL VERIFY ELEVATIONS AND GRADES AND THAT BASE COURSE IS READY TO SUPPORT IMPOSED LOADS.
- APPLY A PRIME COAT AS PER CITY OF SUGAR LAND AND TXDOT STANDARDS. DO NOT APPLY TACK COAT UNTIL PRIMED BASE COURSE HAS CURED AND IS APPROVED BY THE CONSTRUCTION INSPECTOR.
- TACK COAT SHALL COMPLY TO CITY OF SUGAR LAND AND TXDOT STANDARDS.
- DO NOT USE CUTBACK ASPHALT APRIL 16 THROUGH SEPTEMBER 15.
- DO NOT PLACE ASPHALT WHEN AMBIENT TEMPERATURE IS BELOW 50°F AND FALLING. MIXTURE MAY BE PLACED WHEN AMBIENT TEMPERATURE IS 40°F AND RISING.
- ON PUBLIC ROADS, STREETS, AND RIGHT-OF-WAY, ASPHALT SHALL BE PLACED IN MAXIMUM 2-INCH LIFTS. IN THE EVENT MORE THAN ONE LIFT IS REQUIRED, EACH LIFT SHALL BE COMPACTED, TESTED, AND GIVEN ADEQUATE TIME FOR THE PREVIOUS LIFT TO CURE AND DRY BEFORE THE NEXT LIFT IS PLACED. IF COMPLETELY CURED AND DRIED, A TACK COAT WILL BE REQUIRED BETWEEN LIFTS.
- A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
- ROLLING PATTERNS SHALL BE ESTABLISHED BY THE CONTRACTOR, AS RECOMMENDED BY THE LAB, TO ACHIEVE THE MAXIMUM COMPACTION. THE SELECTED ROLL PATTERN SHALL BE FOLLOWED UNLESS CHANGES IN THE PLACEMENT OR MIXTURE OCCUR, WHICH AFFECT COMPACTION. COMPACTION OF 95% SHALL BE ACHIEVED.
- ASPHALT SHALL NOT BE PLACED ON WET BASE.
- NO "BIRDBATHS" ARE ALLOWED.
- IF THE SURFACE RAVELS (SEPARATES), FLUSHES, RUTS, OR DETERIORATES IN ANY MANNER PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR WILL CORRECT THIS CONDITION AT HIS EXPENSE TO THE SATISFACTION OF THE CITY OF SUGAR LAND ENGINEER.
- THE CONTRACTOR SHALL PROTECT THE PAVEMENT UNTIL DIRECTED BY THE CITY ENGINEER TO OPEN SAID PAVEMENT TO TRAFFIC.
- RIDE QUALITY SHALL COMPLY WITH TXDOT ITEM 585, "RIDE QUALITY FOR PAVEMENT SURFACES".
- SPECIAL NOTE: CONTRACTOR, WHILE MAXIMIZING COMPACTION, SHALL USE CAUTION NOT TO "OVER-ROLL" ASPHALT. PAVEMENT STRETCHED OR OVER-ROLLED, WHERE COMPACTION IS BROKEN, SHALL NOT BE ACCEPTED AND SHALL BE REPAIRED OR REPLACED TO THE CITY ENGINEER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
- CORE SAMPLES SHALL BE TAKEN RANDOMLY AT A MINIMUM OF EVERY 300 LF PER LANE OF ROADWAY OR ONE PER EVERY 250 SQ. YD., WHICHEVER IS APPLICABLE AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.
- ALL ASPHALTIC CONCRETE PAVEMENT REPAIRS SHALL BE SAW CUT TO FULL ASPHALT DEPTH. REFER TO ASPHALT, STABILIZED BASE, FLEXIBLE BASE, ASPHALT BASE, AND OIL AND EMULSION NOTES. ALL DAMAGED BASE AND SUBGRADES SHALL BE REMOVED AND REPLACED TO THE CITY ENGINEER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AREA DAMAGED DURING CONSTRUCTION, INCLUDING AREAS OUTSIDE THE DESIGNATED REPAIR.

STABILIZED CRUSHED CONCRETE:

- TEST AND ANALYSIS OF AGGREGATE AND BINDER MATERIALS WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1557 AND ASTM D 4318. CEMENT SHALL BE ASTM 150 TYPE I.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES (1993) AND ITS LATEST REVISIONS AND CITY OF SUGAR LAND STANDARDS.
- PRIME COAT SHALL BE M.C. 30 OR EPR-1 PRIME.
- DESIGN MIX FOR MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 200 PSI IN 48 HRS. PROVIDE MINIMUM CEMENT CONTENT OF 2 SK PER TON OF MIX. CEMENT CONTENT MAY BE RAISED AT THE CONTRACTOR'S EXPENSE IF TESTS ON FIELD SAMPLES FALL BELOW 200 PSI.
- THREE SAMPLES SHALL BE MOLDED EACH DAY FOR EACH 300 TONS OF PRODUCTION. COMPRESSIVE STRENGTH SHALL BE THE AVERAGE OF THREE TESTS FOR EACH PRODUCTION LOT. CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY MATERIAL BELOW MINIMUM REQUIREMENTS.
- CONTRACTOR SHALL VERIFY LINES, GRADES, AND COMPACTED SUBGRADING AS READY TO RECEIVE MATERIALS PRIOR TO ITS PLACEMENT.
- CEMENT STABILIZED BASE MAY NOT BE PLACED IF AMBIENT TEMPERATURE IS 40°F AND FALLING. BASE MATERIAL MAY BE PLACED IF AMBIENT TEMPERATURE IS 35°F AND RISING.
- MATERIAL MAY NOT BE PLACED IN LIFTS EXCEEDING 6 INCHES IN DEPTH. EACH LIFT SHALL HAVE DENSITIES TAKEN.
- CEMENT STABILIZED BASE MAY NOT BE STORED FOR LONG PERIODS. DELIVERY OF MATERIAL AND UTILIZATION SHOULD BE TIMED ACCORDINGLY. MAXIMUM TIME ALLOWED 3 HRS. FROM BATCH TIME TO HAVING BEEN INSTALLED.
- CEMENT STABILIZED BASE SHALL NOT BE INSTALLED IN WET OR SOFT AREAS.
- COMPACT TO MINIMUM DENSITY OF 95% OF MAXIMUM DRY DENSITY. UNLESS OTHERWISE INDICATED ON DRAWINGS, MOISTURE SHALL BE BETWEEN + OR -2% OPTIMUM AS DETERMINED BY ASTM D 698.
- AFTER COMPACTING FINAL COURSE, GRADE SURFACE TO FINAL GRADE. ANY IRREGULARITIES, WEAK SPOTS, AREAS OF EXCESSIVE WETNESS, OR SURFACE HAIR LINE CRACKING SHALL BE REPAIRED AND/OR REPLACED AT CONTRACTOR'S EXPENSE.
- A CERTIFIED LAB SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
- COMPACTION TESTING WILL BE PERFORMED IN ACCORDANCE WITH ASTM D 1556 OR ASTM D 2922 AND ASTM D 3017 AT RANDOMLY SELECTED LOCATIONS AS DIRECTED BY CITY OF SUGAR LAND CONSTRUCTION INSPECTOR.
- A MINIMUM OF ONE CORE SHALL BE TAKEN AT RANDOM LOCATIONS PER 300 LF PER LANE OF ROADWAY OR ONE PER 250 SQ. YD., WHICHEVER MAY APPLY AND SHALL BE STAGGERED RELATIVE TO TESTING SITES IN ABUTTING TRAFFIC LANES.
- CURE FOR A MINIMUM OF 7 DAYS BEFORE ADDING ASPHALT PAVEMENT COURSES.
- COVER SURFACE WITH CURING MEMBRANES AT THE FOLLOWING RATES: MC-30:01 GAL. PER SQ. YD., OR EPR-1 PRIME:0.15 GAL. PER SQ. YD. DO NOT USE CUTBACK ASPHALT APRIL 16 TO SEPTEMBER 15. PROTECT THE MEMBRANE BY ALLOWING MEMBRANE TO FULLY CURE PRIOR TO PERMITTING TRAFFIC TO DRIVE ON IT.
- UNSTABILIZED CRUSHED CONCRETE MAY NOT BE USED ON PUBLIC STREETS, ROADS, OR RIGHTS-OF-WAY.
- STABILIZED LIMESTONE BASE MAY BE SUBSTITUTED FOR STABILIZED CRUSHED CONCRETE IF SUBMITTED AND APPROVED BY THE CITY ENGINEER.

STORM SEWER NOTES:


- STORM SEWERS SHALL BE DESIGNED AND CONSTRUCTED WITH CITY OF SUGAR LAND'S STANDARD CONSTRUCTION SPECIFICATIONS AND IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAILS SHEET AND LATEST REVISIONS.
- ALL PIPE STORM SEWERS SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH CITY OF SUGAR LAND STANDARD DETAIL DRAWINGS.
- ALL CEMENT STABILIZED SAND (C.S.S.) SHALL BE 1-1/2 SK PER CUBIC YD. AND MEET MINIMUM C.S.S. STANDARDS COMPACTED TO 95%.
- ALL STORM SEWERS UNDER AND WITHIN TWO (2) FOOT OF PROPOSED OR FUTURE PAVEMENTS SHALL BE BACKFILLED AND COMPACTED WITH 1-1/2 SK C.S.S. TO BOTTOM OF SUBGRADE.
- ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS WITH FULL MORTAR HEAD AND BED JOINTS AND GROUTED WITH A MINIMUM OF 1/2-INCH NON-SHRINK GROUT INSIDE AND OUTSIDE, UNLESS OTHERWISE NOTED.
- IN ADD TO MAXIMUM EXTENT, MANHOLES IN HANDICAP RAMPS.
- ALL STORM SEWER MANHOLES SHALL BE OF SUGAR LAND TYPE "C" UNLESS OTHERWISE NOTED AND SHALL BE LOCATED A MINIMUM OF THREE (3) FEET BACK OF CURB. IF CONFLICT EXISTS, RACK OVER MANHOLE TO MISS PROPOSED CURB.
- RIM ELEVATIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTOR SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE THE FINISH GRADE AT EACH LOCATION AFTER CONTRACTOR HAS COMPLETED FINAL GRADING. SLOPED FILL SHALL BE ADDED FOR STORM WATER DRAINAGE AWAY FROM RIM.
- RIM ELEVATIONS SHALL BE PROPERLY ADJUSTED TO GRADE IN PAVEMENT AND SIDEWALKS. APPROVED BLOCKOUTS SHALL BE USED IN PAVEMENT.
- ALL STORM SEWER MANHOLE COVERS MUST INCLUDE "STORM SEWER" AND "DUMP NO WASTE", "DRAINS TO WATERWAYS" WITH CITY OF SUGAR LAND EMBLEM AS DEPICTED IN THE DETAIL SHEETS.
- MINIMUM STORM SEWER SIZE SHALL BE 24-INCH DIAMETER. ALL STORM SEWER PIPES 24" AND LARGER ARE TO BE REINFORCED CONCRETE PIPE ASTM C-76 CLASS III, INCLUDING INLET LEADS CROSSING UNDER EXISTING OR PROPOSED PAVEMENTS. ALL INLET LEADS SHALL BE 24" R.C.P. OR LARGER. ALL STORM SEWER PIPE SHALL BE RUBBER GASKETED. ALL CMP PIPE SHALL BE IN ACCORDANCE WITH C.O.S.L. APPROVED PRODUCT LIST AND STANDARD DETAILS.
- CONTRACTOR SHALL VERIFY NATURAL GROUND SHOTS PRIOR TO MANHOLE CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SOLID TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
- CONTRACTOR TO PROVIDE A MINIMUM OF 6-INCHES CLEARANCE AT UTILITY CROSSINGS AND A MINIMUM OF TWELVE (12) INCHES AT SANITARY SEWER CROSSING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACKSLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK.
- ALL DITCHES SHALL BE RESTORED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE COMPACTED AND ALL DISTURBED AREAS SHALL BE RESEDED OR RESEEDDED WITHIN 10 WORKING DAYS OF EACH OCCURRENCE (NO SEPARATE PAY).
- THE UTILITY CONTRACTOR SHALL ROUGH CUT ALL ROADSIDE SVALES IN PROPER ALIGNMENT AND SLOPE TO WITHIN 0.2 FT. OF FINISH GRADE. THE PAVING CONTRACTOR, UPON COMPLETION OF PAVING, SHALL COMPLETE FINAL GRADING ALIGNMENT OF SVALES AND RESTORE ALL AREAS WITHIN RIGHT-OF-WAY FOR SEEDING OR SODDING AND FERTILIZATION.
- ALL STORM SEWERS MUST BE CLEAN/FREE OF DIRT AND DEBRIS AT THE TIME AND INITIAL AND FINAL ACCEPTANCE.
- REFER TO GENERAL NOTES AND C.S.S. NOTES.

SANITARY SEWER NOTES:

- SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE DESIGNED AND CONSTRUCTED AS PER THE REQUIREMENTS OF THE CITY OF SUGAR LAND DESIGN STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS". SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN.
- ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL COMPLY WITH THE CITY OF SUGAR LAND DESIGN STANDARDS AND THE CURRENT APPROVED PRODUCTS LIST.
- STACKS SHALL COMPLY WITH THE CITY OF SUGAR LAND STANDARD DETAIL DRAWING REQUIREMENTS. EXACT LOCATION OF THE STACK SHALL BE SUPPLIED TO THE CITY ENGINEER OF SUGAR LAND BY THE PROJECT ENGINEER ON SEALED AS-BUILT DRAWINGS AT COMPLETION OF CONSTRUCTION. ALL STACKS SHALL BE INSTALLED WITHIN 3% OF PLUMB RELATIVE TO VERTICAL PLANE AND WILL BE CAPPED AND TERMINATED AT A DEPTH OF 4 FEET BELOW FINISHED GRADE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.
- EACH SANITARY SEWER SERVICE LEAD STUB, PLUGGED WYE BRANCH OUTLET AND STACK SHALL BE MARKED IN ACCORDANCE WITH THE DETAILS AT THE TIME OF CONSTRUCTION. BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET BELOW THE CAPPED TERMINATION POINT OF THE STACK AND EXTENDING TWO FEET ABOVE FINISHED GRADE.
- SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED AS PER DRAWINGS INCORPORATED IN CITY OF SUGAR LAND STANDARD CONSTRUCTION DETAILS SHEETS. SUCH MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF ONE FOOT FROM BACK OF CURB ON CURB AND GUTTER ROADWAYS AND THREE FEET FROM EDGE OF TRAVELLED ROADWAY ON THOSE THOROUGHFARES HAVING NO CURBING. MEASURED FROM OUTSIDE DIAMETER OF MANHOLE. ALL SANITARY SEWER MANHOLES SHALL INCORPORATE INFLOW PROTECTORS. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE SPECIFICALLY AUTHORIZED BY CITY ENGINEER AND SO DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS. BRICK MANHOLES AND FIBERGLASS MANHOLES ARE PROHIBITED. MANHOLES DEEPER THAN EIGHT FEET SHALL HAVE ECCENTRIC CONES.
- SANITARY SEWER MANHOLE COVERS SHALL BE MINIMUM OF 32 INCHES IN DIAMETER. ALL SUCH MANHOLE COVERS SHALL HAVE THE CITY OF SUGAR LAND EMBLEM AND THE WORDS "SUGAR LAND" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED IN CITY OF SUGAR LAND STANDARD CONSTRUCTION DETAILS SHEETS.
- MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. UTILITY CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE FINISHED GRADE, AND 0.5 FEET ABOVE NATURAL GROUND WITHIN RIGHTS-OF-WAY AND EASEMENTS AT EACH MANHOLE LOCATION AFTER PAVEMENT CONTRACTOR HAS COMPLETED FINAL GRADING. THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF TO THE SANITARY SEWER SYSTEM.
- MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 317.13, APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN NINE FEET OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO THE CITY OF SUGAR LAND INFRASTRUCTURE STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE SEPARATION DISTANCES OF GREATER THAN NINE FEET CANNOT BE MAINTAINED.
- TESTING OF SANITARY SEWERS, FORCE MAINS, MANHOLES, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS SHALL BE CONDUCTED AS NOTED IN SANITARY SEWER CHAPTER OF THE CITY OF SUGAR LAND DESIGN STANDARDS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY "DESIGN CRITERIA FOR SEWERAGE SYSTEMS".
- ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE WITH CITY DESIGN STANDARDS PRIOR TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. CONTRACTOR SHALL NOTIFY INSPECTOR 24-HOURS PRIOR TO INSPECTION.
- ALL COMMERCIAL DEVELOPMENTS WITH A FAR SIDE SANITARY SERVICE LEAD ACROSS THE STREET SHALL PROVIDE A SIX (6) INCH RISER AND CLEAROUT ON THE PROPERTY SIDE. PUBLIC MAINTENANCE OF THE FAR SIDE LEAD SHALL END AT THIS RISER.

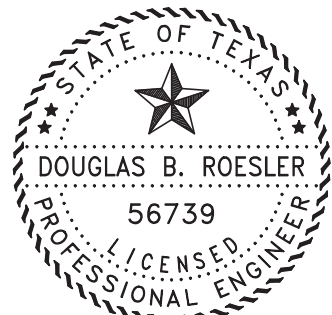
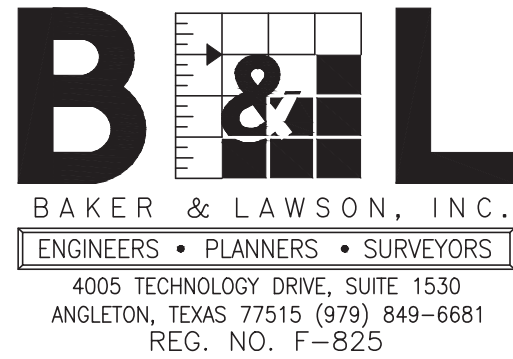
WATER DISTRIBUTION NOTES:

- WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE DESIGNED AND CONSTRUCTED AS PER REQUIREMENTS OF THE CITY OF SUGAR LAND DESIGN STANDARDS AND CORRESPONDING STANDARD CONSTRUCTION DETAILS SHEETS AND AS PER THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY. SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND/OR INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN.
- ALL MATERIALS AND PRODUCTS USED IN THE CONSTRUCTION OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL COMPLY WITH THE CITY OF SUGAR LAND DESIGN STANDARDS AND THE CURRENT APPROVED PRODUCTS LIST AS MAINTAINED BY THE CITY'S ENGINEERING DEPARTMENT.
- ALL GATE VALVES INSTALLED BELOW GRADE SHALL BE OF NON-RISING STEM DESIGN.
- ALL FIRE HYDRANTS SHALL BE PAINTED AND/OR REPAINTED WITH GEO-GLEN 301 BRIGHT SILVER POLYURETHANE ENAMEL MANUFACTURED BY GEO-GLEN ENTERPRISES, INC. SURFACE PREPARATION SHALL INCLUDE REMOVAL OF OIL, GREASE AND MOISTURE, FOLLOWED BY MEDIA BLASTING TO SSPC-SP15-10-63 SPECIFICATIONS (NEAR WHITE METAL) AS PER MANUFACTURER'S RECOMMENDATIONS. PRIME BARE METAL WITH TP-251 EPOXY PRIMER EPOXY PRIMER OR WITH TP-221, TP-231 OR TP-241 UNIVERSAL PRIMER. 80°F AND 50% RELATIVE HUMIDITY ARE OPTIMAL CONDITIONS FOR APPLICATION OF PRIMER AND OF PAINT. DO NOT APPLY PRIMER AND/OR PAINT WHEN SURFACE TO BE PAINTED IS LESS THAN 5' ABOVE THE DEW POINT IN ORDER TO PREVENT MOISTURE FROM CONDENSING ON THE SURFACE TO BE PRIMED AND/OR PAINTED. A BLUE TRAFFIC BUTTON SHALL BE INSTALLED ON THE STREET 12" OFF THE CENTER LINE FOR EACH HYDRANT.
- MINIMUM SEPARATION DISTANCES AS REQUIRED BY TCEQ SECTION 317.13, 290. APPENDIX E MUST BE MAINTAINED BETWEEN POTABLE WATER LINES AND SANITARY SEWERS, FORCE MAINS, LIFT STATIONS AND WASTEWATER TREATMENT PLANTS. INSTALLATION OF FIRE HYDRANTS WITHIN 9' (FT) OF A SANITARY SEWER SYSTEM IS PROHIBITED. REFER TO C.O.S.L. STANDARDS FOR CONSTRUCTION REQUIREMENTS OF OTHER INSTALLATIONS WHERE DISTANCES ARE GREATER THAN 9' (NINE) FT. CANNOT BE MAINTAINED.
- EACH WATER SERVICE LEAD STUB SHALL BE MARKED WITH A PRESSURE TREATED 4 X 4 TIMBER OR PVC PIPE AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH TIMBER MARKER SHALL BE PAINTED BLUE AND LABELED "POTABLE WATER" WITH PIPE SIZE NOTED.
- TESTING OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE CONDUCTED AS PER REQUIREMENTS OF AWWA C605-94.
- DISINFECTION OF WATER MAINS, WATER SERVICE LINES AND ASSOCIATED APPURTENANCES SHALL BE CONDUCTED AS PER REQUIREMENTS OF AWWA C651 AND TCEQ. NO CONNECTIONS SHALL BE MADE TO EXISTING WATER LINES UNTIL NEWLY CONSTRUCTED WATER LINES HAVE BEEN THOROUGHLY DISINFECTED, TESTED, FLUSHED, AND SAMPLED AND CONNECTION HAS BEEN AUTHORIZED BY THE CITY ENGINEER.
- ALL WATER PIPING AND BEDDING SHALL BE INSPECTED BY THE CITY INSPECTOR FOR CONFORMANCE TO DESIGN STANDARDS PRIOR TO BACKFILLING OF PIPING IN TRENCH. CONTRACTOR SHALL NOT COVER PIPING UNTIL SUCH TIME AS INSPECTOR HAS NOTIFIED CONTRACTOR THAT RESULTS OF PIPING INSPECTION ARE SATISFACTORY AND THAT BACKFILLING MAY BE ACCOMPLISHED. ANY PIPING INSTALLED AND/OR BACKFILLED WITHOUT INSPECTOR'S SPECIFIC APPROVAL SHALL BE UNCOVERED AT INSPECTOR'S DIRECTION AND INSPECTED ACCORDINGLY. 24-HOUR NOTICE REQUIRED.
- ALL MECHANICALLY RESTRAINED FITTINGS MUST BE MEGALUG RESTRAINED JOINTS OR APPROVED EQUAL.
- THE CITY OF SUGAR LAND MUST HAVE A COPY OF THE BACTERIOLOGICAL TEST RESULTS AT LEAST 24 HOURS PRIOR TO THE INITIAL INSPECTION. IF NOT, THEN THE INSPECTION WILL BE RESCHEDULED.

No.	DATE	REVISION
SEAL:		
DESIGN ENGINEER: _____ DATE _____		
		
CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT		
CONSTRUCTION PLANS FOR:		
GENERAL CONSTRUCTION NOTES II		
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:		SL-02 SHEET OF

NO.	DATE	DESCRIPTION	APPROVED	
REVISIONS				

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/6/2025



The seal appearing on this document was authorized by Douglas B. Roessler P.E. 56739
03-07-2025

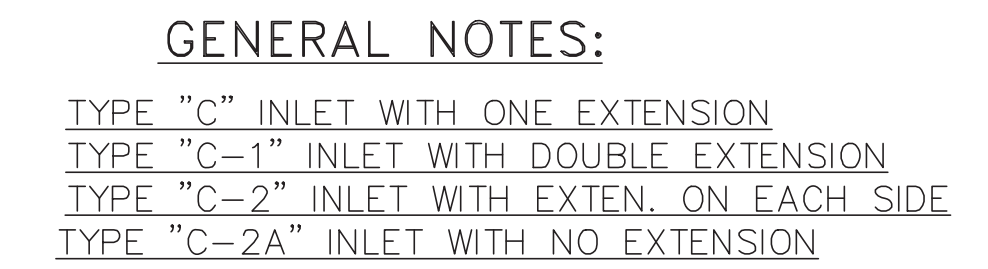
OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: _____
PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

GENERAL CONSTRUCTION
NOTES – II
SL-02

PROJECT NO. 16182



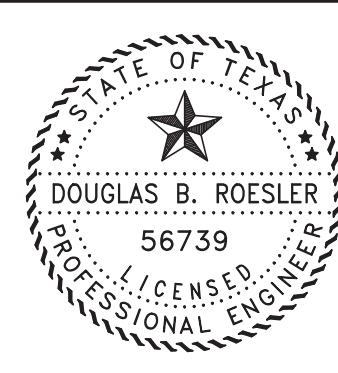
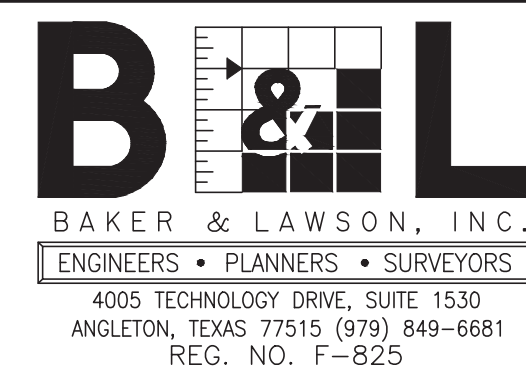
1. FOR TYPE "C-1" INLETS PROVIDE A CENTER 6"x6" COLUMNS IN THE CURB LINE BETWEEN ALL EXTENSIONS.
2. WALLS TO BE 8" IF BUILT WITH REINFORCED CONCRETE. BRICK WALLS ARE NOT ALLOWED.




1. GENERAL NOTES
2. STORM SEWER NOTES

				DESIGNED	DR
				DRAWN	BT
				CHECKED	DR
NO.	DATE	DESCRIPTION	APPROVED	DATE	3/6/2025
REVISIONS					

DESIGNED DR
DRAWN BT
CHECKED DR
DATE 3/6/2025



The seal appearing on
this document was
authorized by
Douglas B. Roesler
P.E. 56739

 03-07-2025

OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: _____
 PROFILE: _____
 HORIZONTAL: _____
 VERTICAL: _____

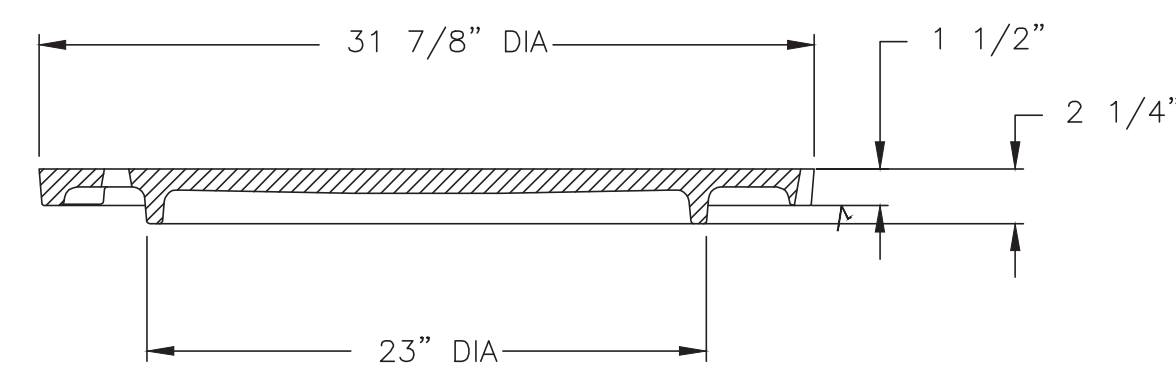
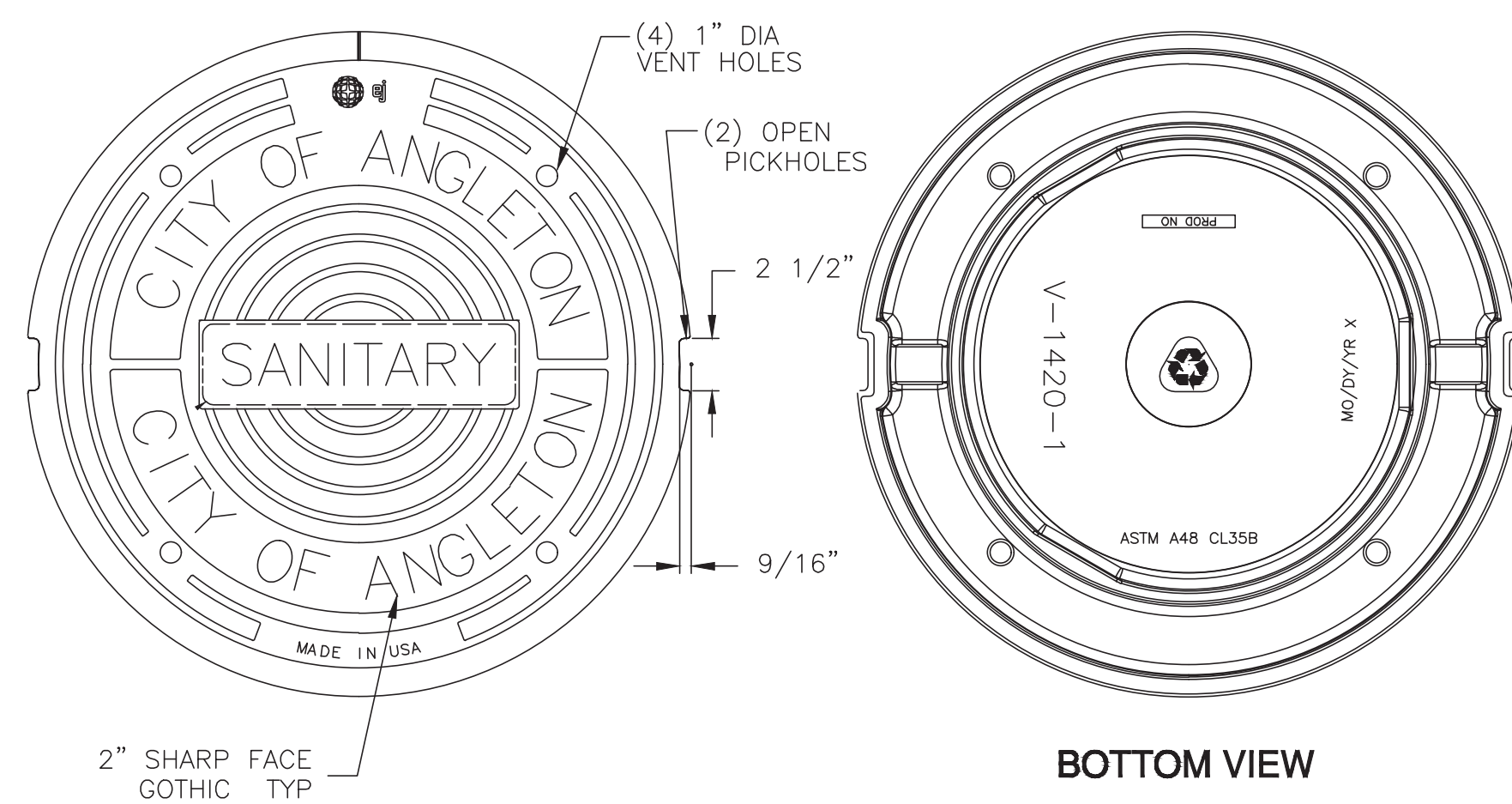
PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

STORM SEWER INLET
CONSTRUCTION DETAILS III
SL-09

PROJECT NO. 16182



V1420-1 Cover



COVER SECTION

NOTES

1. MATERIAL SPECIFICATION SHALL BE ASTM A-48 CLASS 35B.
2. COVER TO BE SOLID, WITHOUT HOLES AND WITH NON-PENETRATION RIM ACCESS RECESSES ONLY.
3. HORIZONTAL BEARING SURFACES TO BE MACHINED AND SEALED AT INSTALLATION WITH WATERPROOF GREASE COATING.
4. LOAD RATING TO BE HEAVY-DUTY.
5. MANHOLE FRAMES AND COVERS SET IN FARM TO MARKET ROADS OR HIGHWAYS SHALL FOLLOW TXDOT SPECIFICATIONS. (UNLESS OTHERWISE NOTED BY ANGLETON)

1 32" Manhole Cover and Frame
Scale: NTS

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/6/2025

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825

STATE OF TEXAS
DOUGLAS B. ROESLER
P.E. 56739
03-07-2025

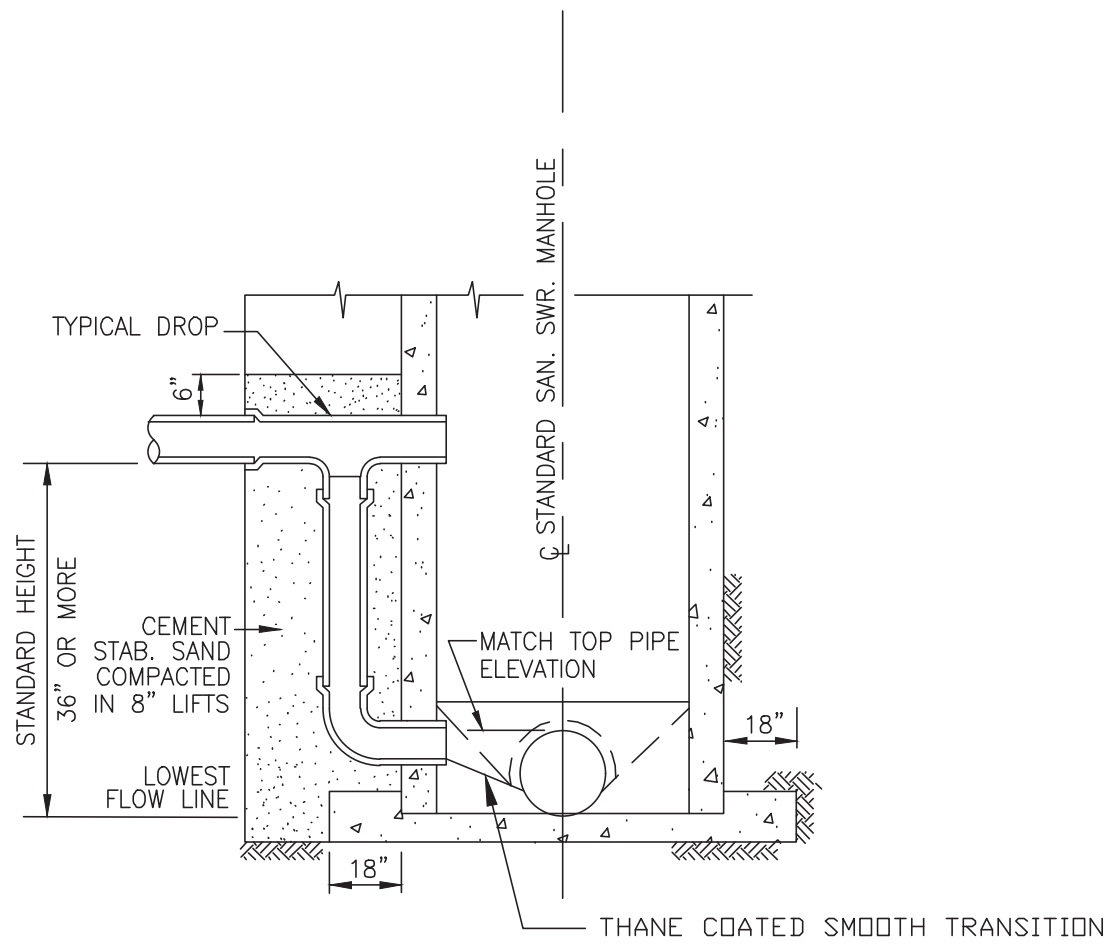
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PLAN:	_____
PROFILE:	_____
HORIZONTAL:	_____
VERTICAL:	_____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

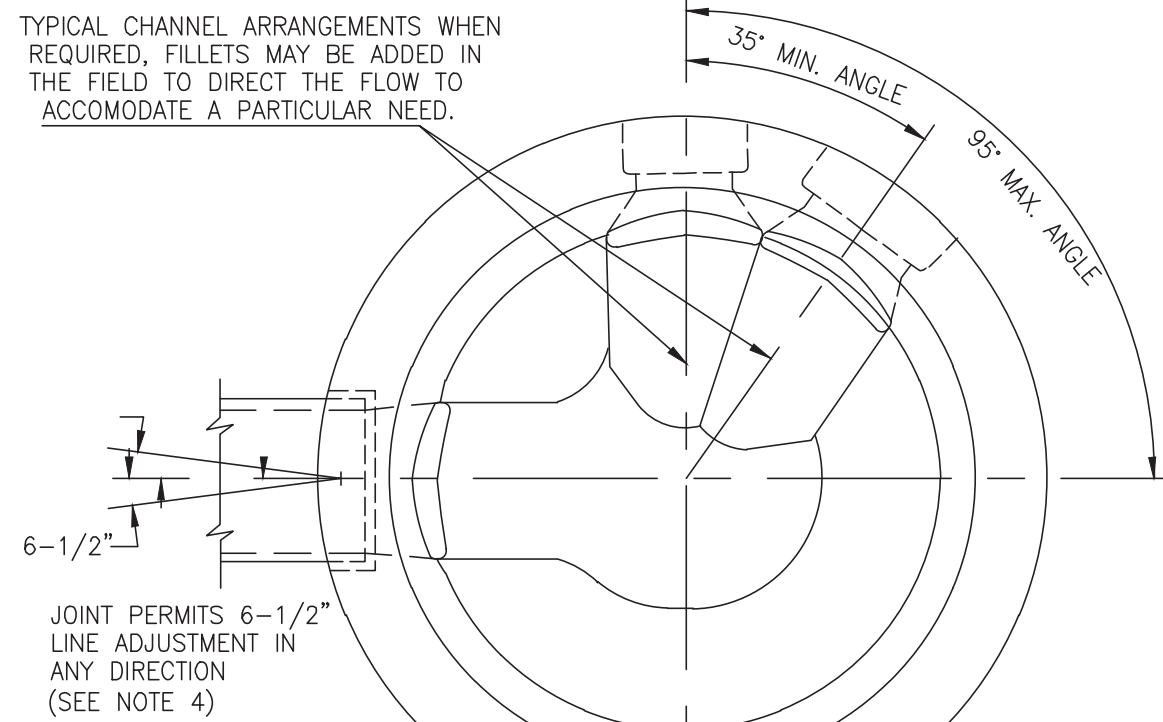
SANITARY SEWER MANHOLE
CONSTRUCTION DETAILS

PROJECT NO. 16182



STANDARD DROP DETAIL
(SEE C.S.S. NOTES)

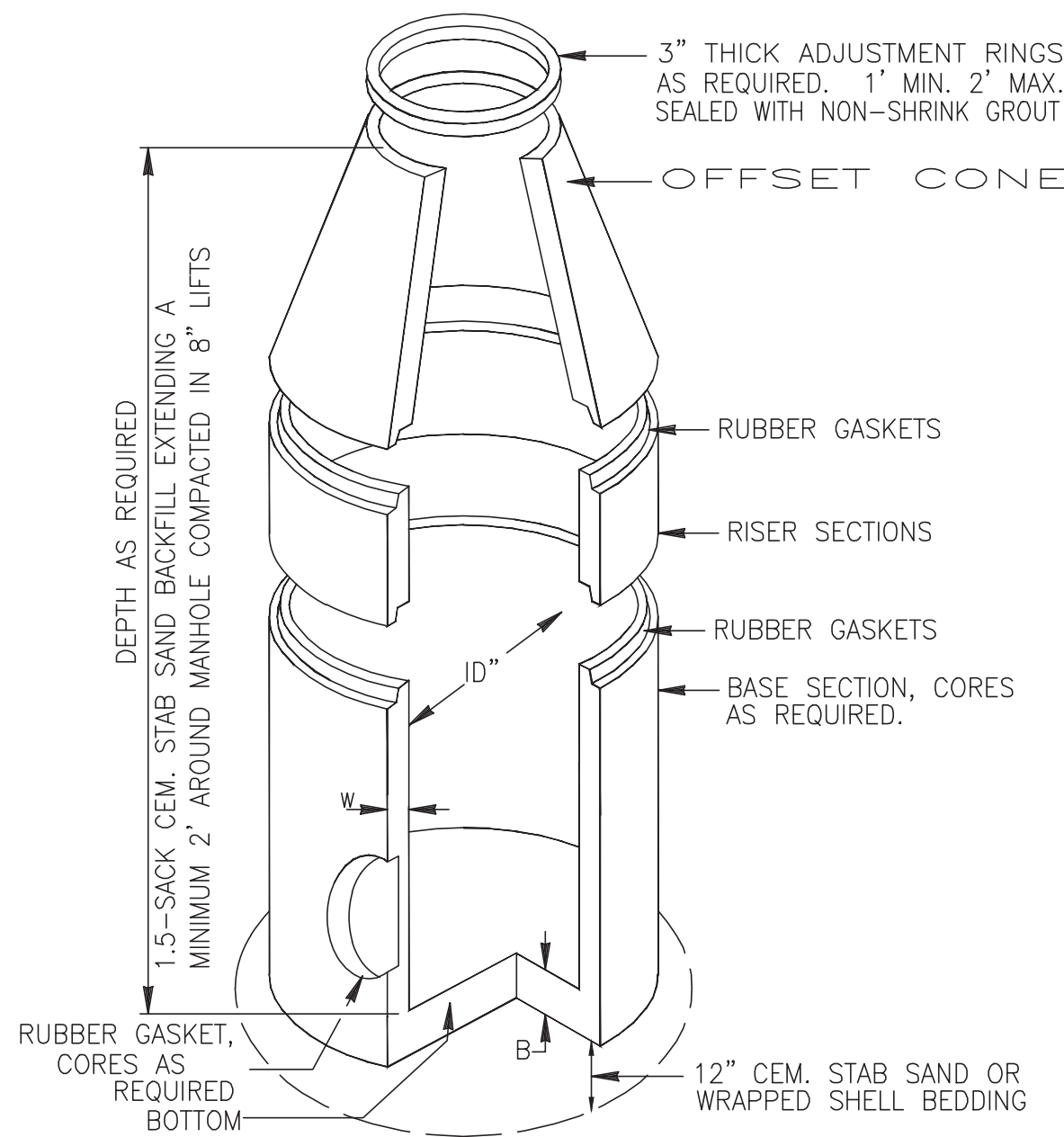
SL-SS-05



PIPING CONNECTIONS
DETAIL

SL-SS-05

- NOTE:
- INFLUENT AND EXFLUENT PIPING CONNECTIONS TO MANHOLE SHALL BE ALIGNED TO PREVENT REVERSE FLOW.
 - INFLUENT AND EXFLUENT CONNECTIONS ARE LIMITED TO A MAXIMUM 90° INCLUDED ANGLE OF CONVERGENCE.
 - MINIMUM 35° AND MAXIMUM 90° INCLUDED ANGLES MUST BE PROVIDED BETWEEN MULTIPLE INFLUENT CONNECTIONS.
 - ANGLE OF DEFLECTION AT PIPING JOINTS AS PER MANUFACTURE'S RECOMMENDATIONS.



SPECIFICATIONS:

- CONCRETE: CLASS 1 CONCRETE WITH A DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. RATES FOR H-20 LOADING.
- REINFORCEMENT: STRUCTURAL REINFORCEMENT CONFORMING TO ASTM-C-478.
- C.I. CASTINGS: CAST IRON FRAMES AND LIDS ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 35.

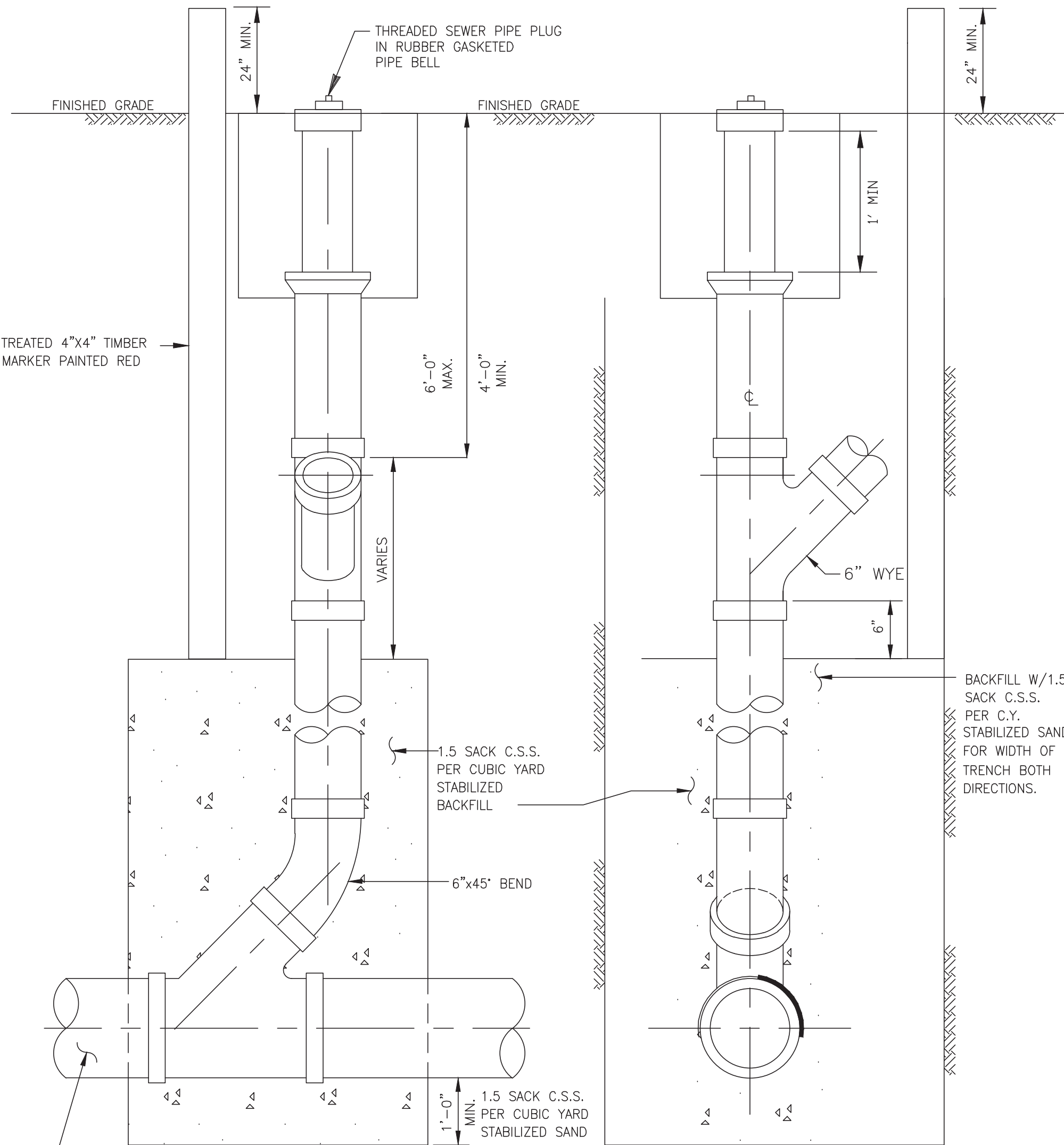
NOTES

- LIFTING INSERTS AS REQUIRED.
- ALL JOINTS SHALL BE SEALED WITH APPROVED RUBBER GASKET
- STRUCTURE TO BE PLACED ON 12" STABILIZED BASE.
- C.S.S. SHALL BE BROUGHT TO WITHIN 2-FT OF TOP OF MANHOLE.
- PRE-CAST MANHOLE SHALL BE IN COMPLIANCE APPROVED PRODUCT LIST.
- THANE COAT SHALL BE IN COMPLIANCE WITH APPROVED PRODUCT LIST.
- INVERTS SHALL COMPLY WITH C.O.S.L., DESIGN MANUAL SPECIFICATIONS.
- INFLOW PROTECTORS REQUIRED ON ALL SANITARY MANHOLES.
- REFER TO SANITARY MANHOLE LIDS, C.S.S. NOTES, MODIFIED BEDDING DETAILS AND NOTES.

PRECAST SANITARY MANHOLE

N.T.S.

SL-SS-03



TRENCH SIDE VIEW
TRENCH END VIEW
STACK DETAIL

N.T.S.

SL-SS-04

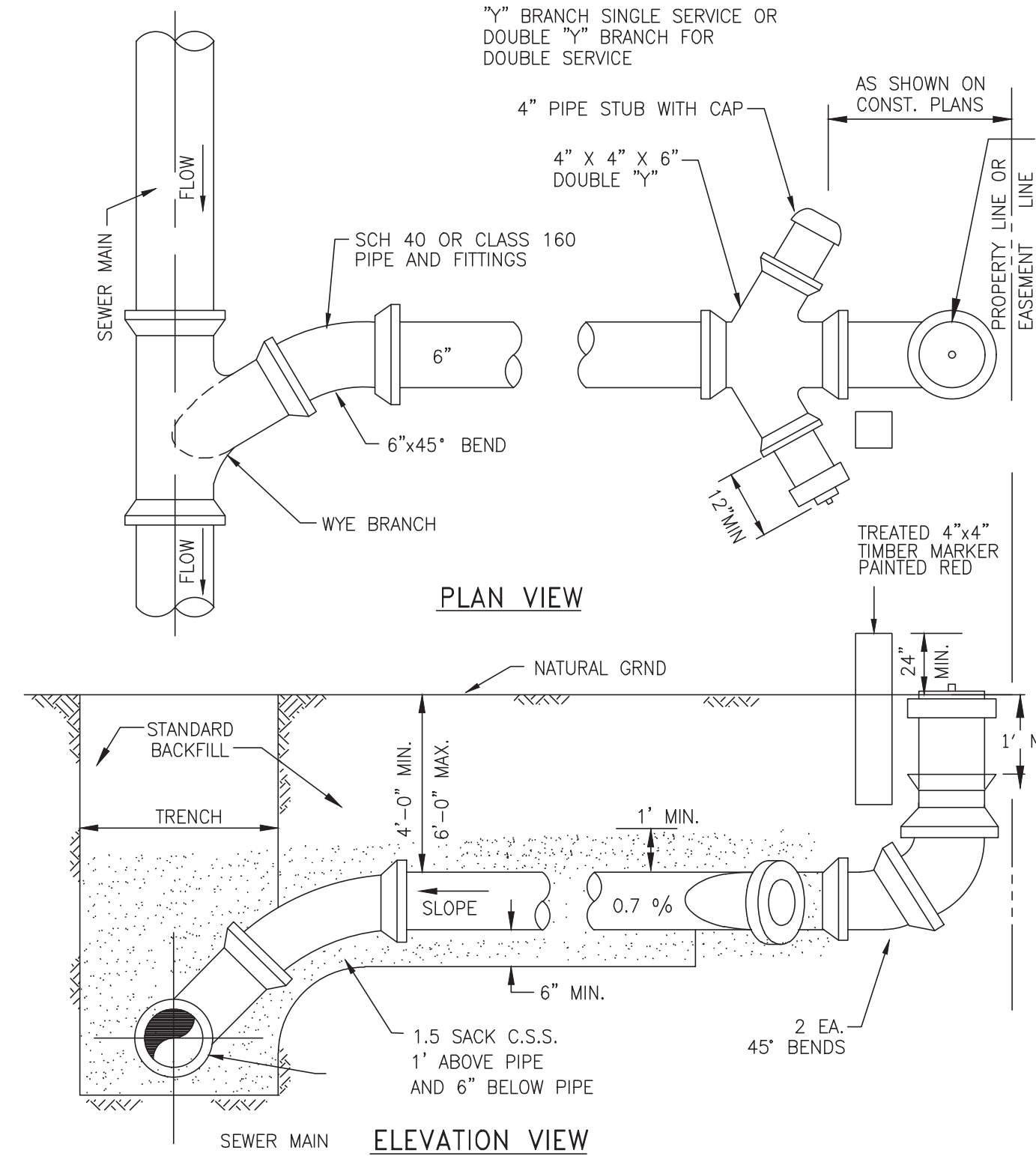
NOTES:

- A.) NO STACKS ON MAINS OVER 16' DEEP OR IN WET SAND CONDITIONS.
- B.) ALL STACK CONNECTIONS SHALL BE IN-LINE FITTINGS.

NOTES:

- CONTRACTOR SHALL CONTACT CITY OF SUGAR LAND ENGINEERING DEPARTMENT AT (281) 275-2780 IF WET SAND OR OTHER UNSTABLE SOIL CONDITIONS, HIGH WATER TABLE AND/OR UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED.
- SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF SUGAR LAND DESIGN STANDARDS SHALL GOVERN.
- SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF FOUR FOOT FROM BACK OF CURB ON CURB AND GUTTER ROADWAYS AND THREE FEET FROM EDGE OF TRAVELLED ROADWAY ON THOSE THOROUGHFARES HAVING NO CURBING, MEASURED FROM OUTSIDE DIAMETER OF MANHOLE. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE SPECIFICALLY AUTHORIZED BY CITY ENGINEER AND SO DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS.
- ALL SUCH MANHOLE COVERS SHALL HAVE THE CITY OF SUGAR LAND EMBLEM AND THE WORDS "SUGAR LAND" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED IN CITY OF SUGAR LAND STANDARD CONSTRUCTION DETAILS SHEETS. ALL SANITARY SEWER MANHOLES SHALL INCORPORATE INFLOW PROTECTORS.
- MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 0.4 FEET ABOVE FINISHED GRADE WITHIN RIGHTS-OF-WAY AND EASEMENTS AT EACH MANHOLE LOCATION AFTER FINAL GRADING. ADJUSTMENTS TO MANHOLE RIM ELEVATIONS SHALL BE ACCOMPLISHED BY THE USE OF THROAT RINGS ONLY (MAX. OF 24 INCHES PERMITTED). THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF TO THE SANITARY SEWER SYSTEM.
- DROP CONNECTIONS ARE REQUIRED WHEN INVERT ELEVATION OF SEWER LINE TO BE CONNECTED EXCEEDS 36 INCHES DISTANCE ABOVE INVERT ELEVATION OF MANHOLE BASE. ALL DROP CONNECTIONS SHALL BE CONSTRUCTED OF SAME MATERIALS AS SEWER AND SHALL BE CONSTRUCTED EXTERIOR TO MANHOLE. PIPE CONNECTIONS TO MANHOLES SHALL BE SO CONSTRUCTED AS TO BE WATERTIGHT AND TO ALIGN UPPER INSIDE PIPE WALL ELEVATIONS OF ALL PIPING CONNECTED TO BASE OF MANHOLE UNIFORMLY, REGARDLESS OF PIPE DIAMETERS. DROP ASSEMBLIES SHALL BE BEDDED IN CEMENT STABILIZED SAND. CEMENT STABILIZED SAND SHALL EXTEND A MINIMUM OF SIX INCHES PAST PIPING LATERALLY FROM BASE OF MANHOLE UPWARD TO A POINT SIX INCHES (MINIMUM) ABOVE THE HORIZONTAL SEWER PIPING WHERE CONNECTED TO THE MANHOLE ABOVE THE VERTICAL DROP.
- CONNECTIONS TO EXISTING AND/OR NEW SANITARY SEWER MANHOLES CONSTRUCTED OF PRECAST CONCRETE NOT HAVING PRECORED HOLES OF CORRECT DIAMETER, LOCATION AND FIELD CORING ONLY SHALL ACCOMPLISH INVERT ELEVATION. IN NO INSTANCE WILL EITHER MANUAL OR PNEUMATIC CHISELS AND/OR HAMMER DRILLS BE UTILIZED TO BREAK HOLES IN PRECAST CONCRETE MANHOLES, PIPE SEGMENTS OR OTHER PRECAST STRUCTURES SUCH AS LIFT STATIONS.
- BEDDING AND BACKFILL OF SANITARY SEWER PIPING AND MANHOLES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH CITY OF SUGAR LAND DESIGN STANDARDS. A 1.5-SACK MIX IS REQUIRED FOR ALL CEMENT STABILIZED SAND BEDDING AND SUCH BEDDING SHALL BE INSTALLED IN LIFTS OF EIGHT INCHES MAXIMUM.
- SOLVENT WELDED JOINTS ARE NOT AN ACCEPTABLE JOINING METHOD FOR SANITARY SEWERS CONSTRUCTED OF PVC PIPING MATERIALS AND LOCATED WITHIN RIGHTS-OF-WAY OR EASEMENTS. RUBBER GASKETED BELL AND SPIGOT SANITARY SEWER JOINTS ARE MANDATORY. BELL (FEMALE) ENDS OF PIPE SHALL BE INSTALLED ON UPSTREAM SIDE WITH SPIGOT (MALE) ENDS ORIENTED DOWNSTREAM.
- SANITARY SEWER SERVICE LEADS SHALL BE EXTENDED TO RIGHTS-OF-WAY AND/OR EASEMENT LINES AS APPLICABLE AND CAPPED/PLUGGED FOR FUTURE CONNECTIONS. SERVICE LEADS ARE TO BE INSTALLED SO AS TO PASS UNDER POTABLE WATER PIPING AT CROSSINGS WHERE POSSIBLE.
- EACH SANITARY SEWER SERVICE LEAD STUB, PLUGGED WYE BRANCH OUTLET AND STACK SHALL BE MARKED WITH A PRESSURE TREATED 4 X 4 TIMBER AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET BELOW THE CAPPED TERMINATION POINT OF THE STACK AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH TIMBER MARKER SHALL BE PAINTED RED AND LABELED "SANITARY SEWER STUB", "SANITARY SEWER WYE" OR "SANITARY SEWER STACK" AS APPROPRIATE WITH STUB, WYE BRANCH OUTLET OR STACK SIZE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIVING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
- ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE WITH CITY INFRASTRUCTURE STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY NOTIFY THE CITY OF ALL CONSTRUCTION ACTIVITIES AND TO CONFORM TO CITY OF SUGAR LAND PUBLIC WORKS DEPARTMENT INSPECTION POLICY.
- C.S.S. 1' ABOVE PIPE AND 6" BELOW PIPE MINIMUM.
- SEE GENERAL NOTES AND C.S.S. NOTES.

SL-SS-07



SANITARY SEWER SERVICE CONNECTION

N.T.S.

SL-SS-06

No.	DATE	REVISION

SEAL:

DESIGN ENGINEER:



CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

SANITARY SEWER
CONSTRUCTION DETAILS

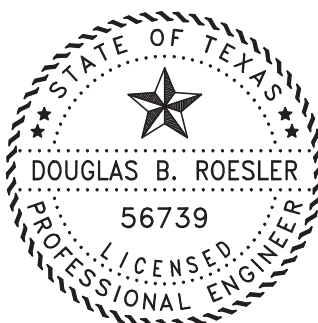
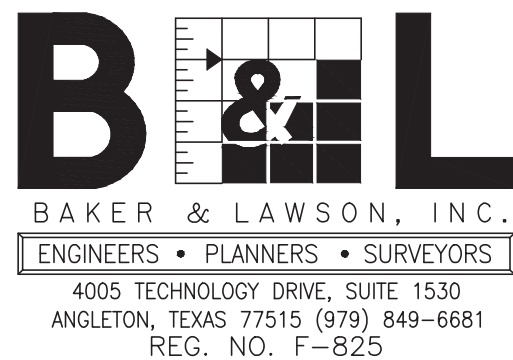
JOB No.:
DATE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE:

SL-14

SHEET OF

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/6/2025



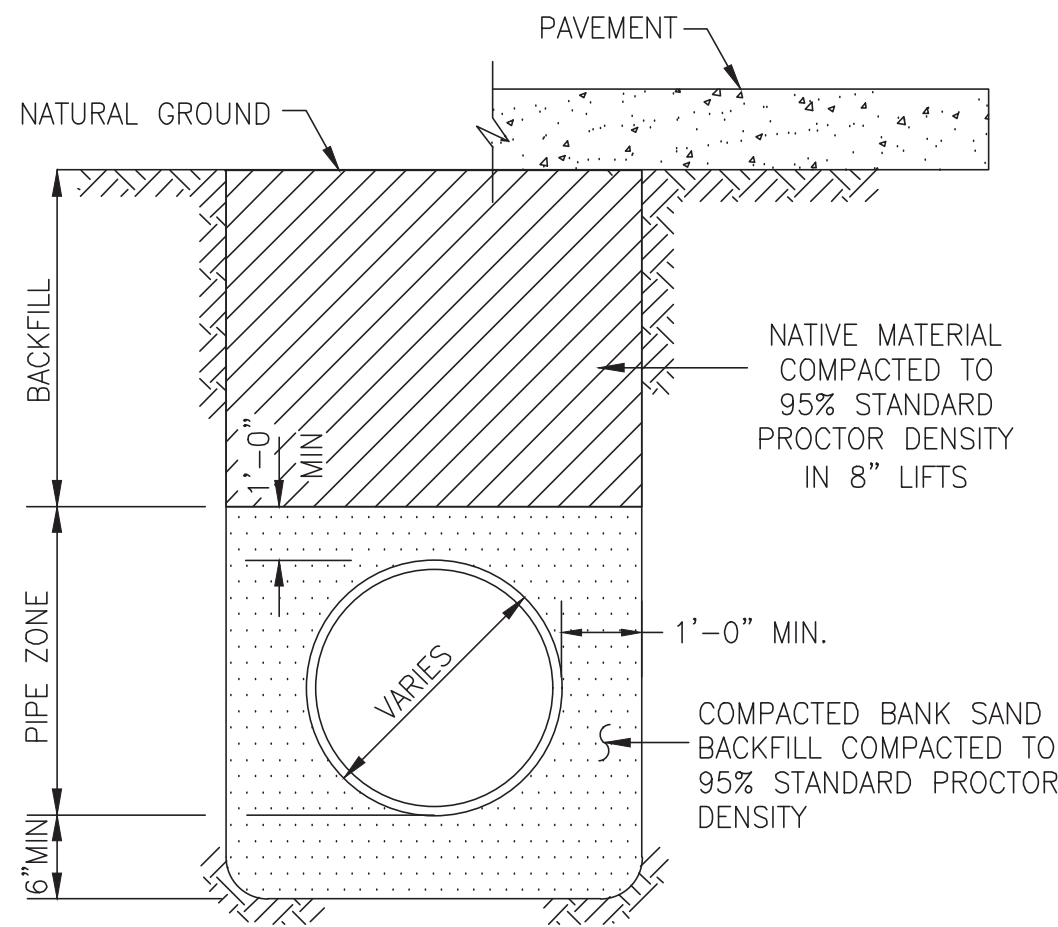
The seal appearing on this document was authorized by Douglas B. Roessler P.E. 56739
03-07-2025

OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: _____
PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

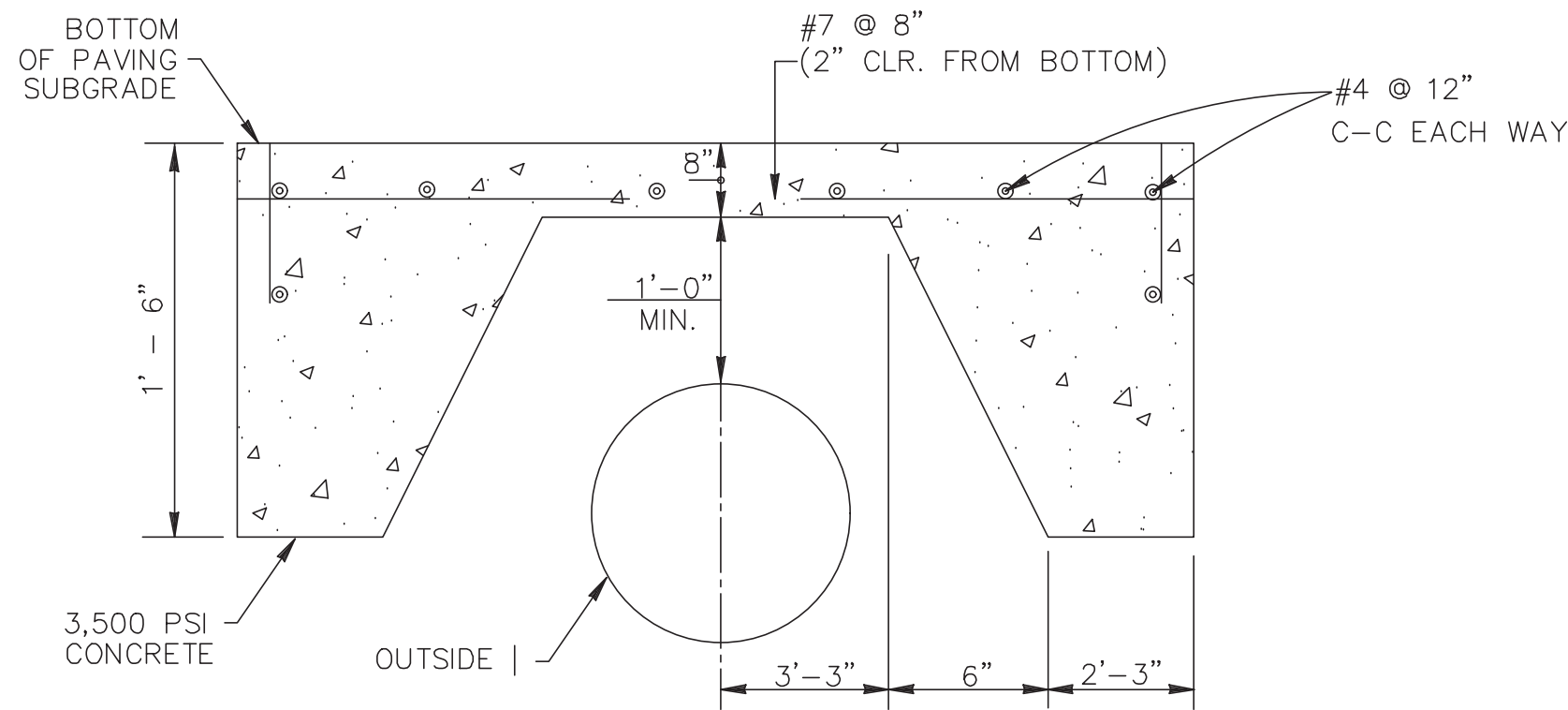
SANITARY SEWER
CONSTRUCTION DETAILS
SL-14



P.V.C. PIPE BEDDING & BACKFILL
N.T.S.
*SEE CONSTRUCTION NOTES

SANITARY FORCE MAIN & WATER LINE
BEDDING AND BACKFILL

SL-BB-01



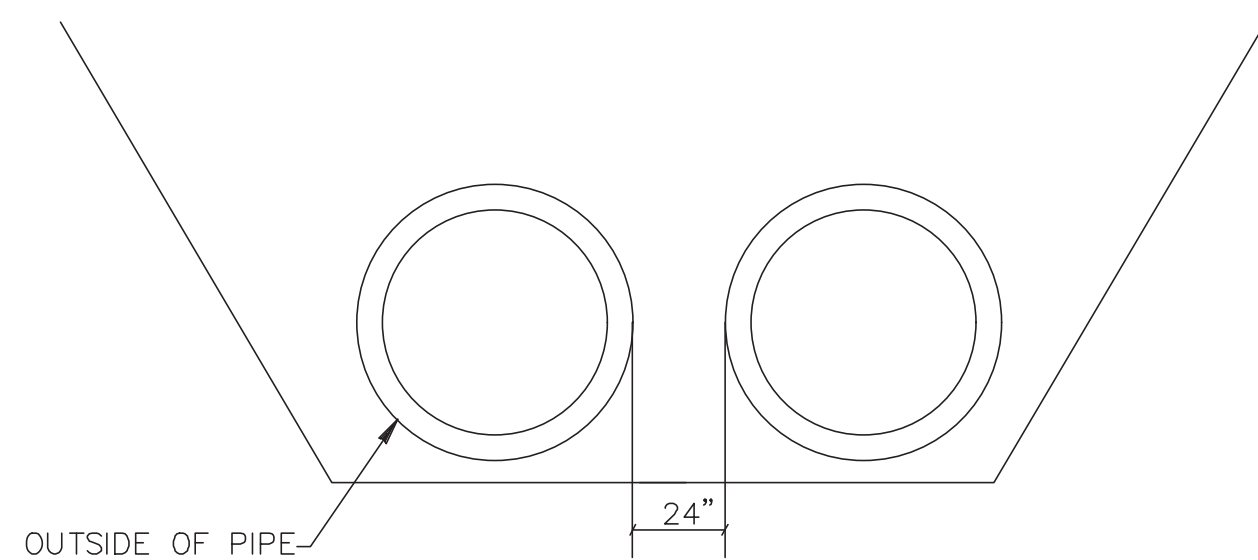
PROTECTIVE SLAB DETAIL
ZERO LOAD TRANSFER CONCRETE SLAB

SL-BB-04

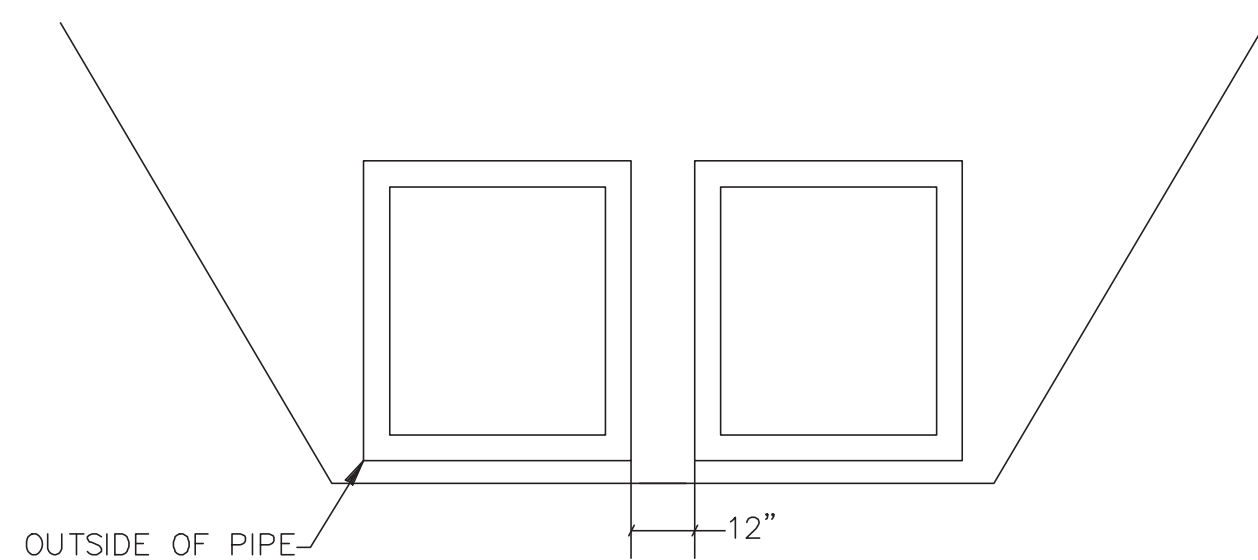
CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT SUGAR LAND ENGINEERING DEPARTMENT IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERED.
2. LIMESTONE AND RECYCLED CONCRETE DIMENSIONS SHOWN ARE TYPICAL BUT MAY BE VARIED BY ORDER OF CITY ENGINEER.
3. LIMESTONE OR RECYCLED CONCRETE SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATION No. 248 FLEXIBLE BASE, TYPE A, GRADE 2 AGGREGATE.
4. NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS. WHEN WELL POINTING OR IN WET SAND CONDITIONS, MAINTAIN GROUND WATER 1 (FT) BELOW BOTTOM OF TRENCH FOR A MINIMUM OF 24-HRS AFTER BEDDING AND BACKFILL IS IN PLACE.
5. ALL MATERIALS SHALL BE FROM THE APPROVED PRODUCTS LIST UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
6. SANITARY SEWER BEDDING FOR WET SAND CONDITIONS SHALL BE AS PER MODIFIED "A".
7. ALL SAND BEDDING FOR WATER LINES SHALL BE CLEAN, MECHANICALLY COMPACTED BANK SAND.
8. REFER TO: MANHOLE DETAILS, SANITARY, C.S.S., GENERAL, WATER CROSSING, WATER DISTRIBUTION DETAILS AND NOTES.
9. ALL BEDDING WILL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
10. A GEOTECHNICAL REPORT MAY BE REQUIRED TO ANALYZE THE BEARING CAPACITY OF EXISTING SOILS AND MAKE A DETERMINATION IF ADDITIONAL BEDDING AND BACKFILL IS APPROPRIATE.

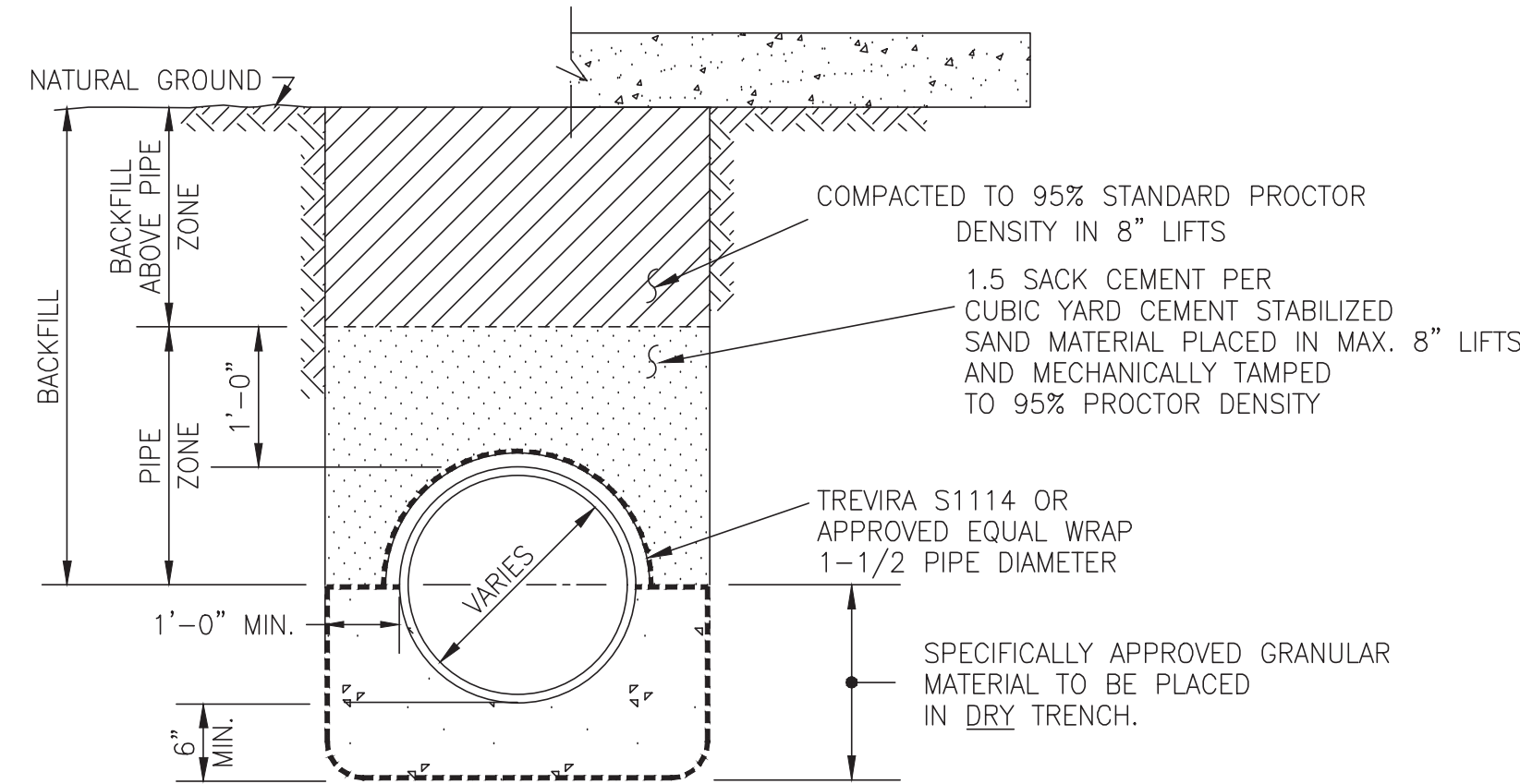
SL-BB-05



PIPE SEPARATION



RCB SEPARATION



MODIFIED "A"
N.T.S.


NOTE: C.S.S. SHALL BE INSTALLED A MIN. 1' ABOVE TOP OF PIPE.

SANITARY SEWER
BEDDING AND BACKFILL

SL-BB-03

REFER TO:

1. GENERAL NOTES
2. C.S.S. NOTES

No.	DATE	REVISION	
SEAL:			
DESIGN ENGINEER: _____ DATE _____			
			
CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT			
CONSTRUCTION PLANS FOR:			
WATER LINE, SANITARY SEWER FORCE MAIN BEDDING DETAILS			
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:		SL-19 SHEET OF	

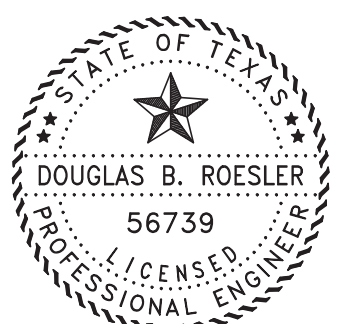
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NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/6/2025

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BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6661
REG. NO. F-825

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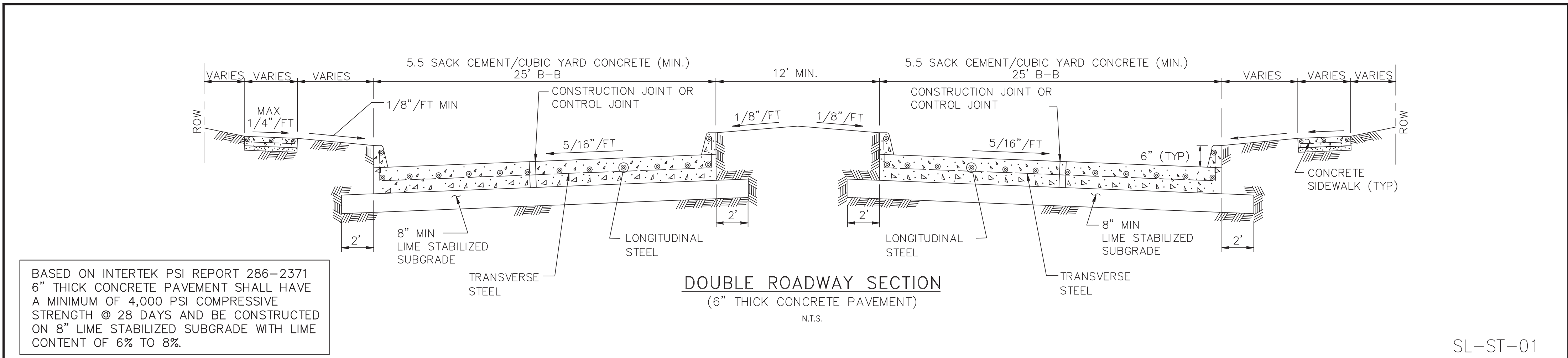
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PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

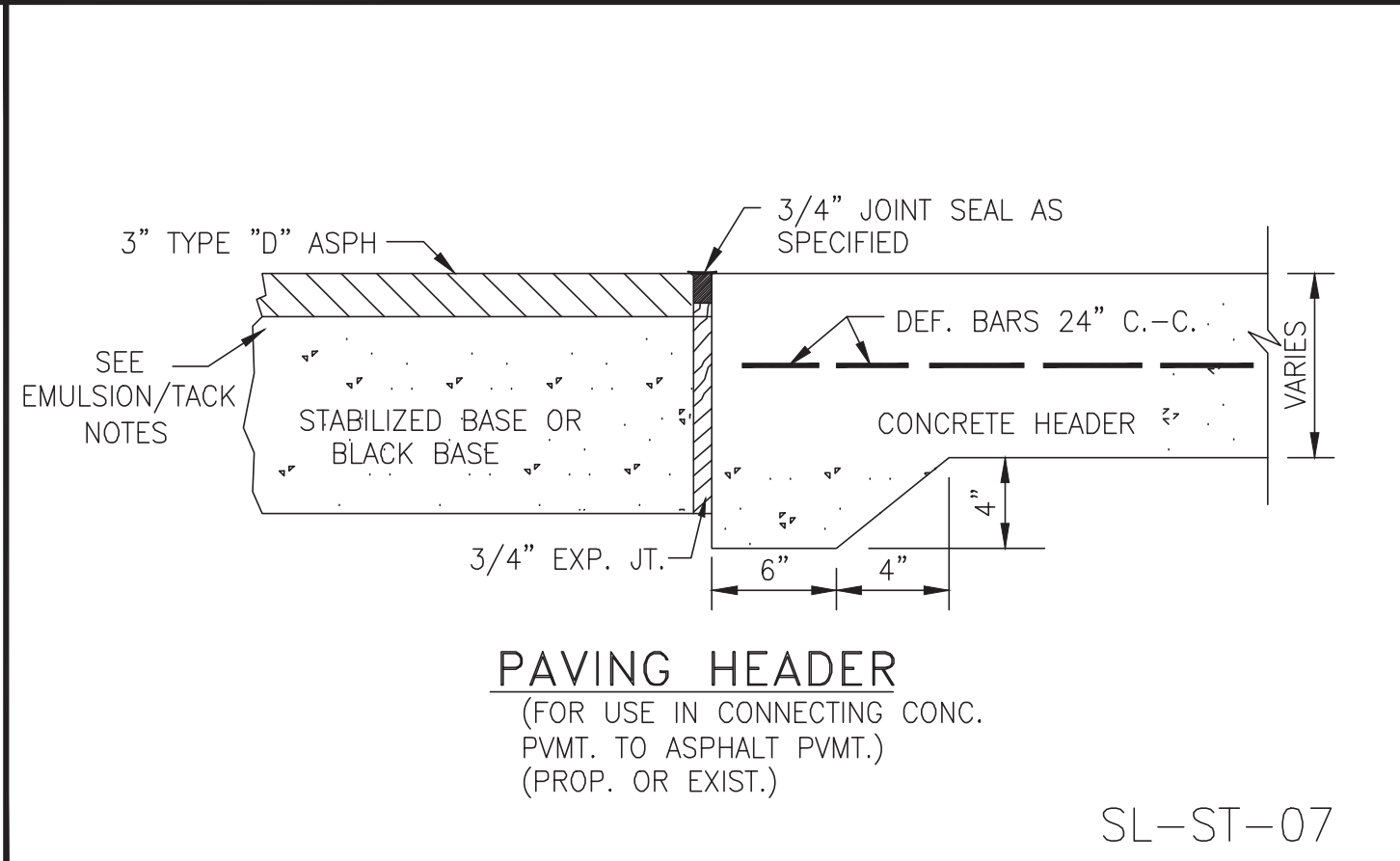
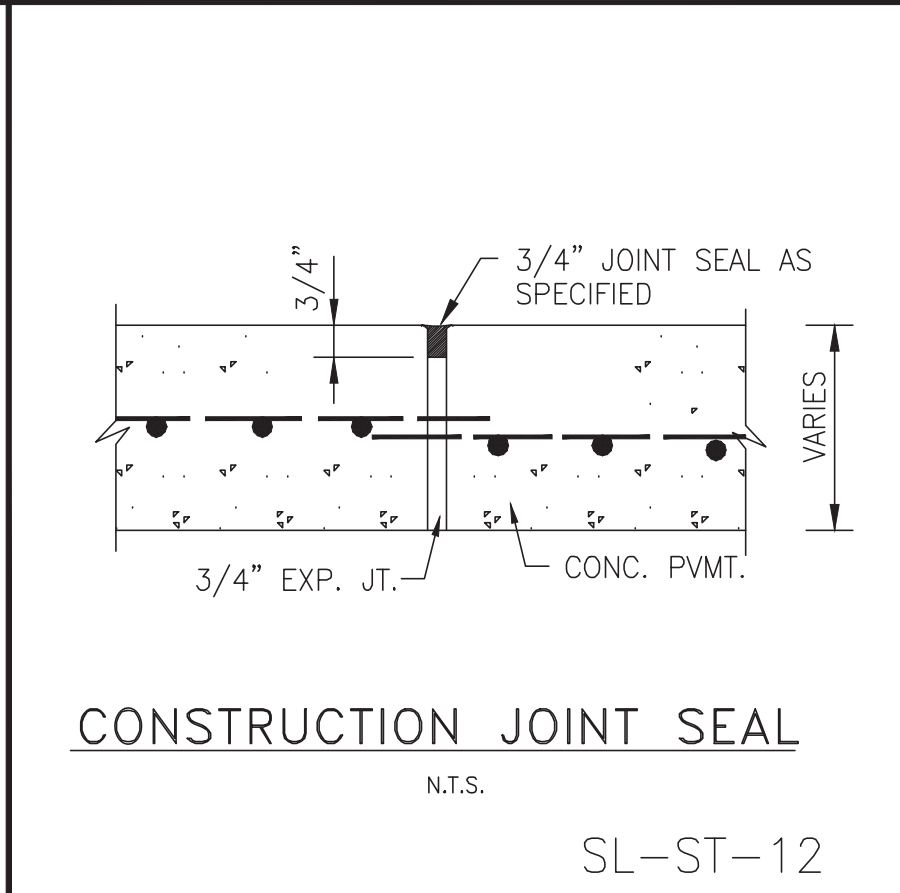
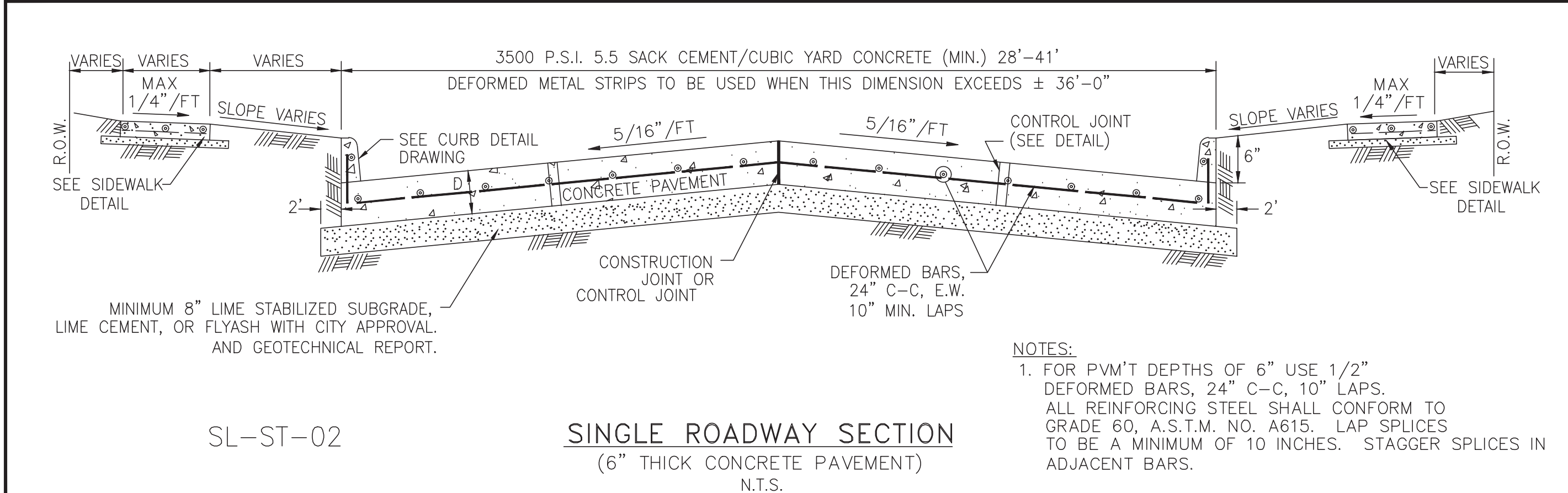
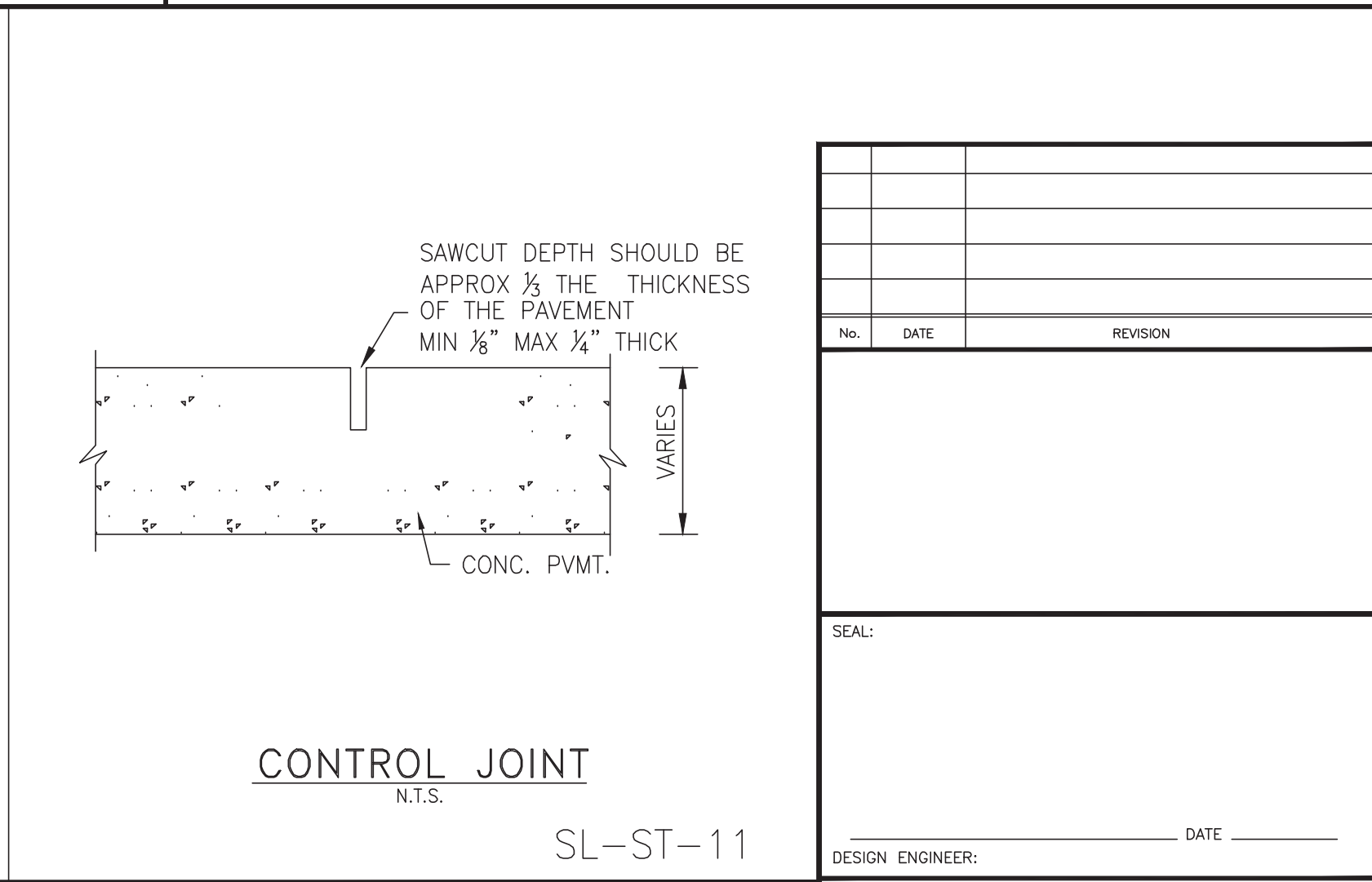
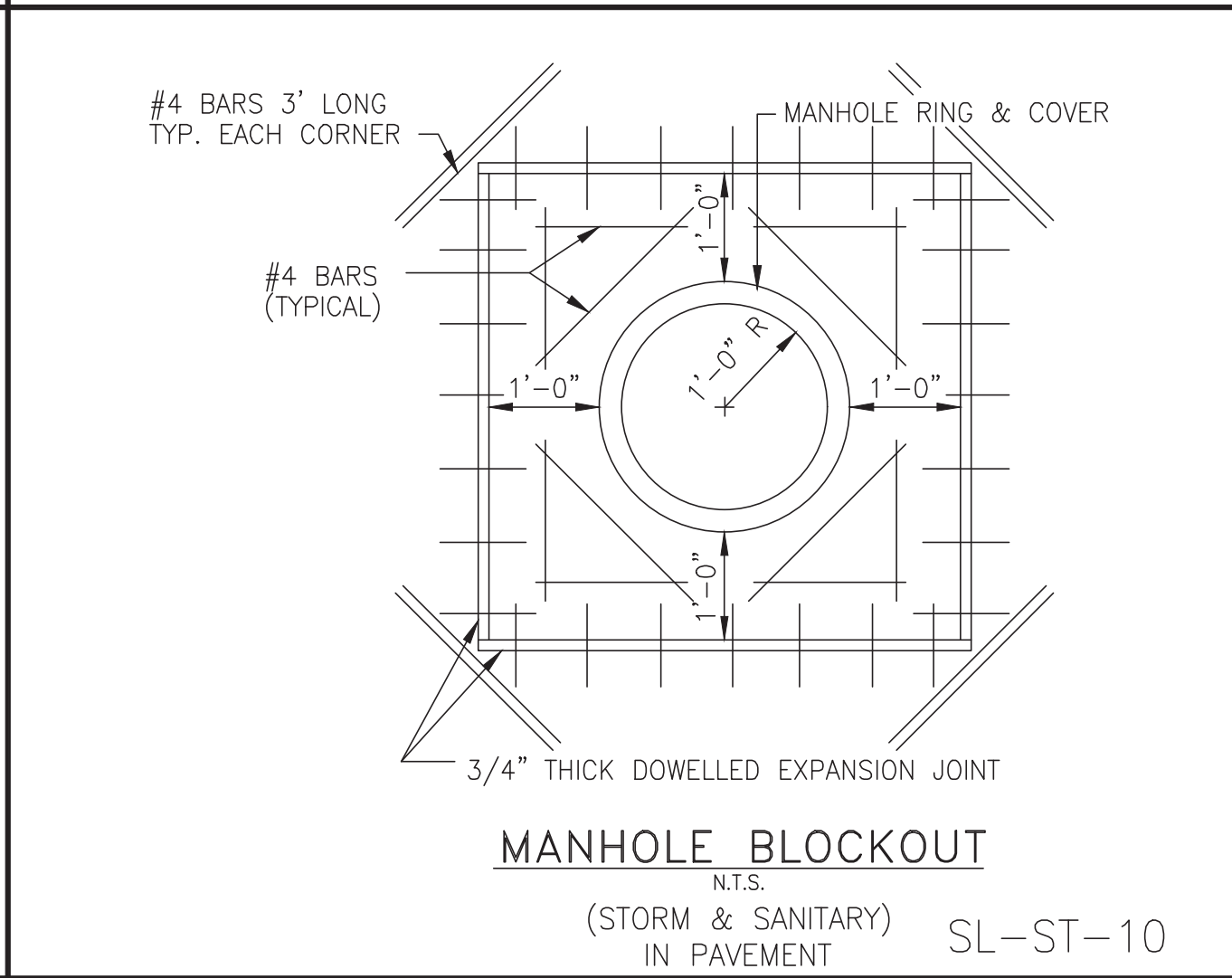
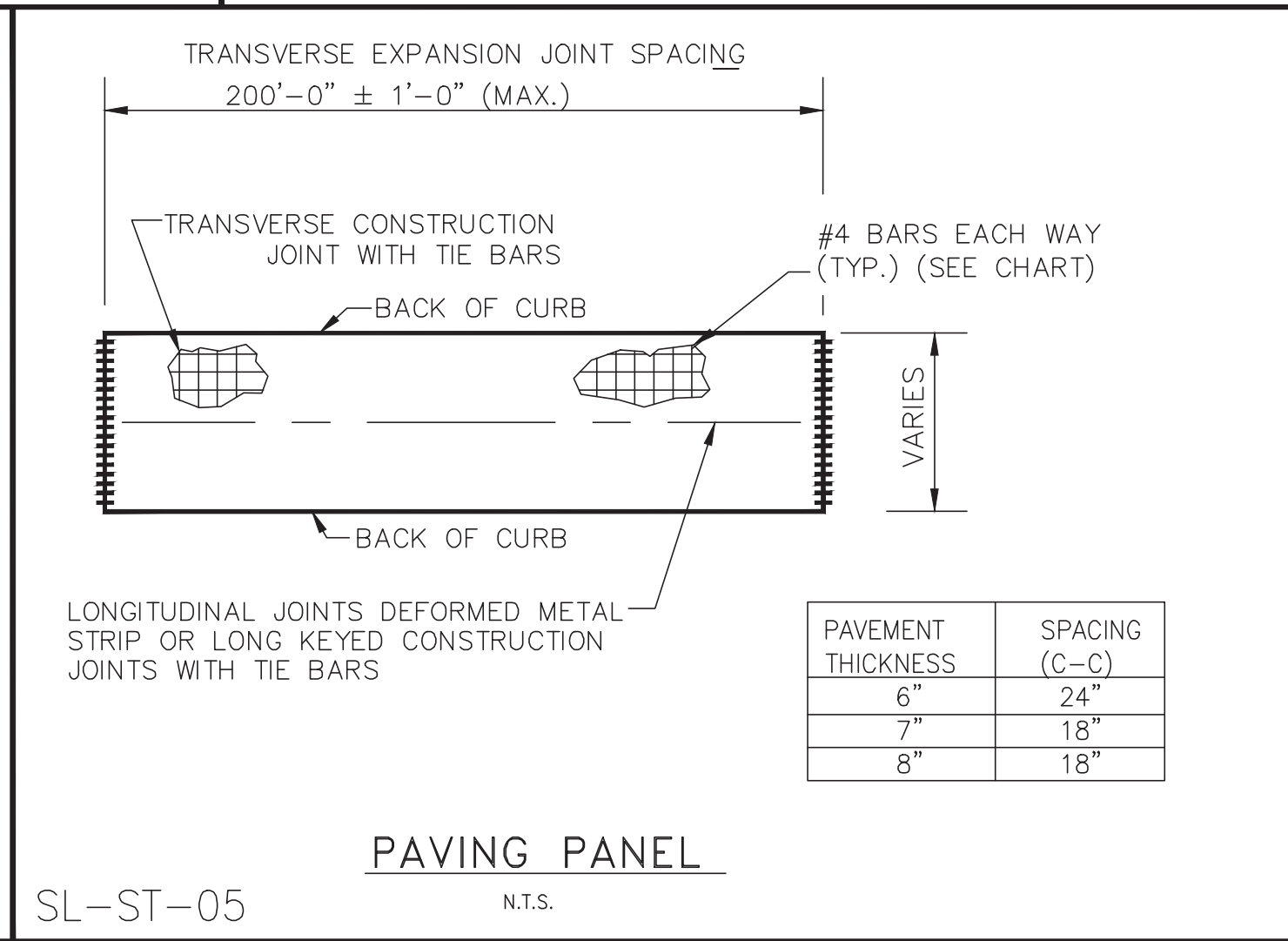
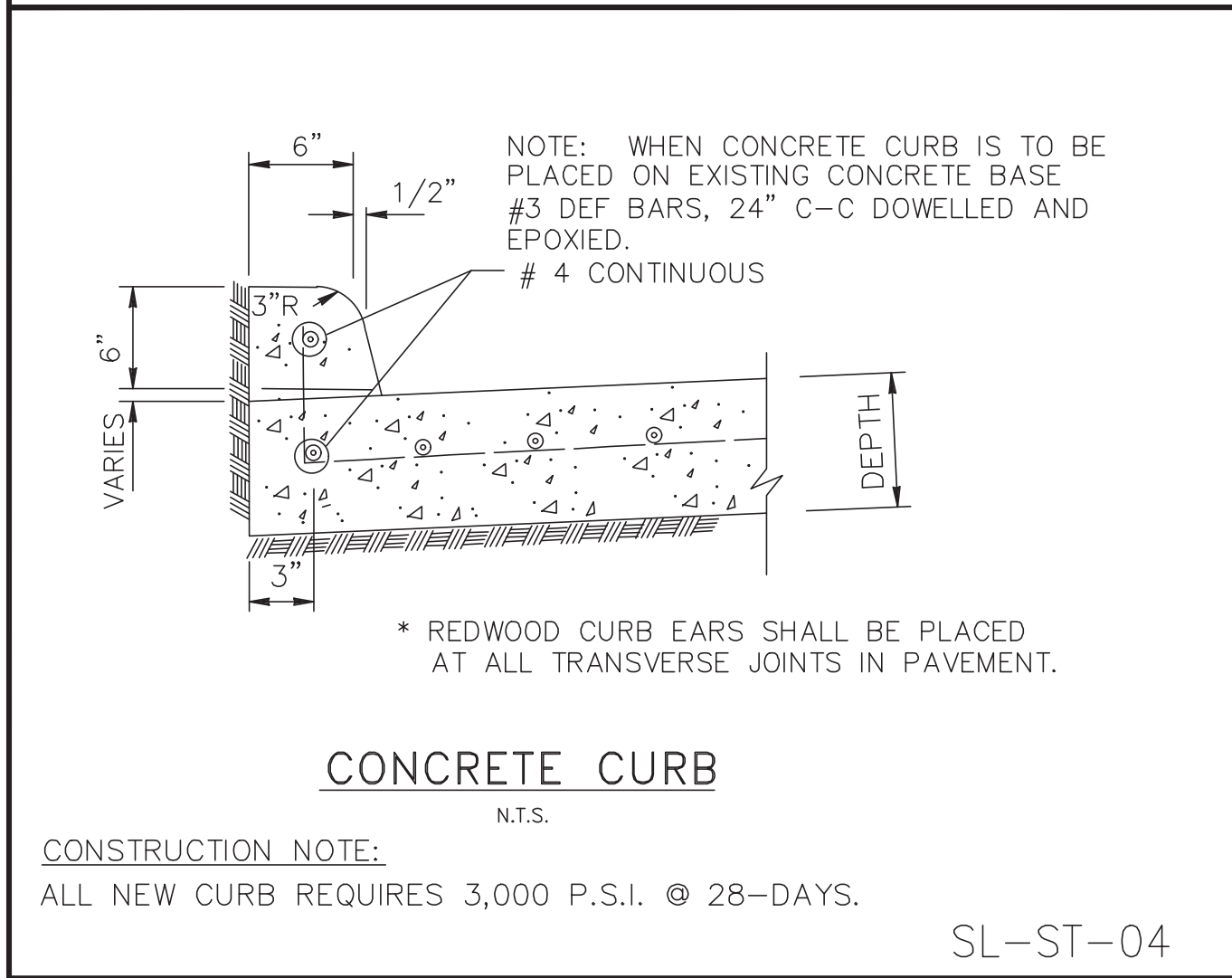
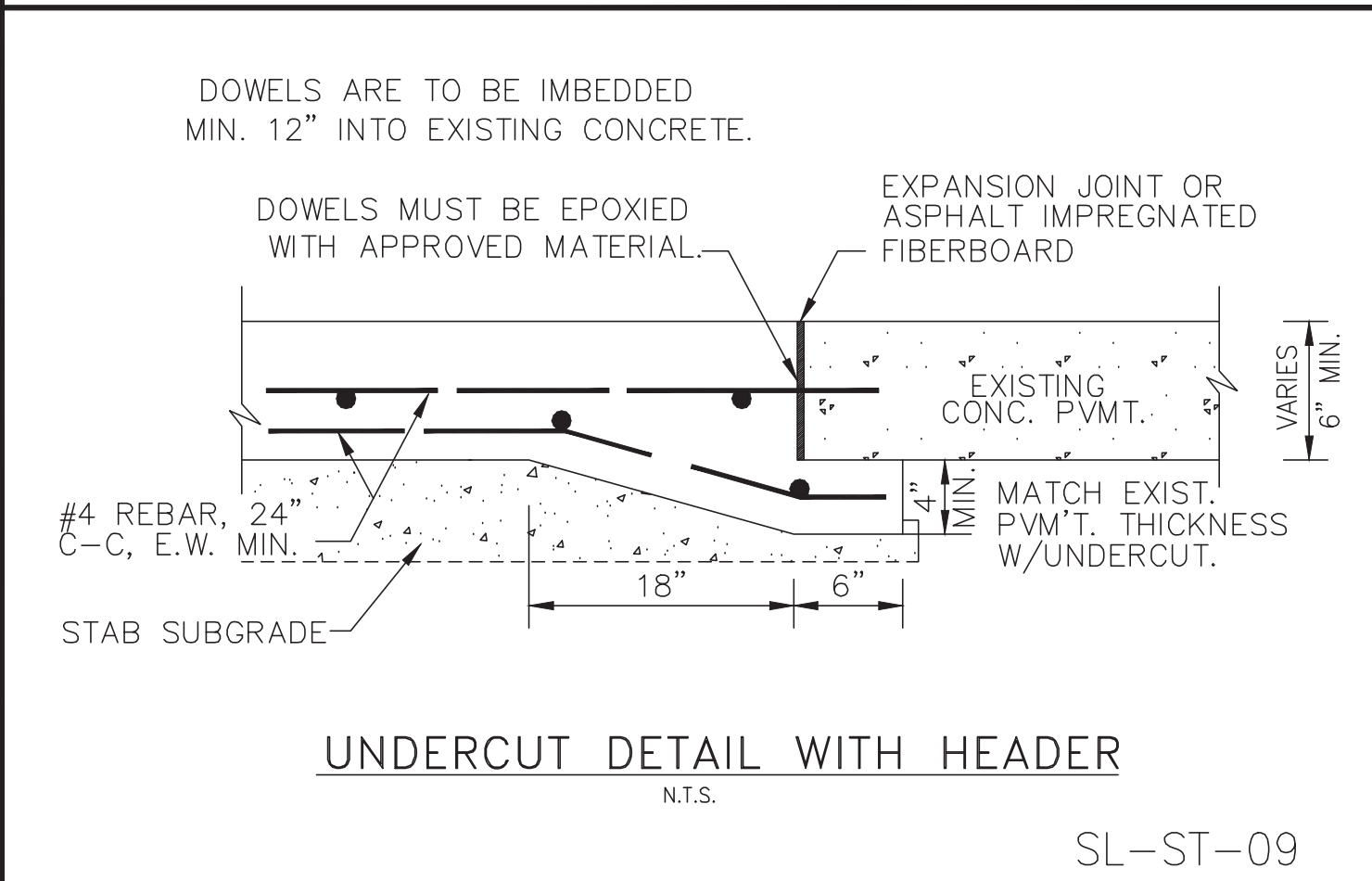
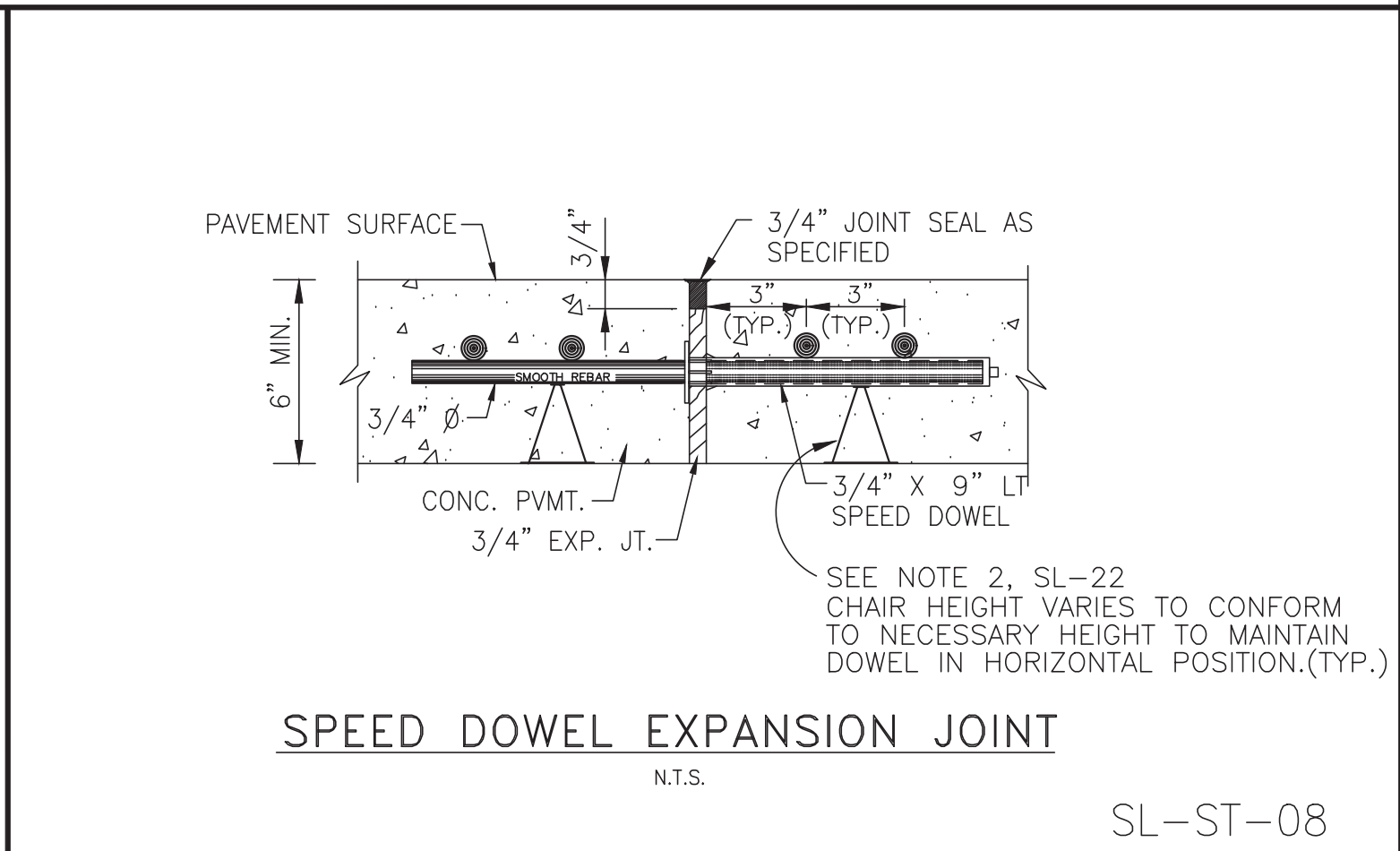
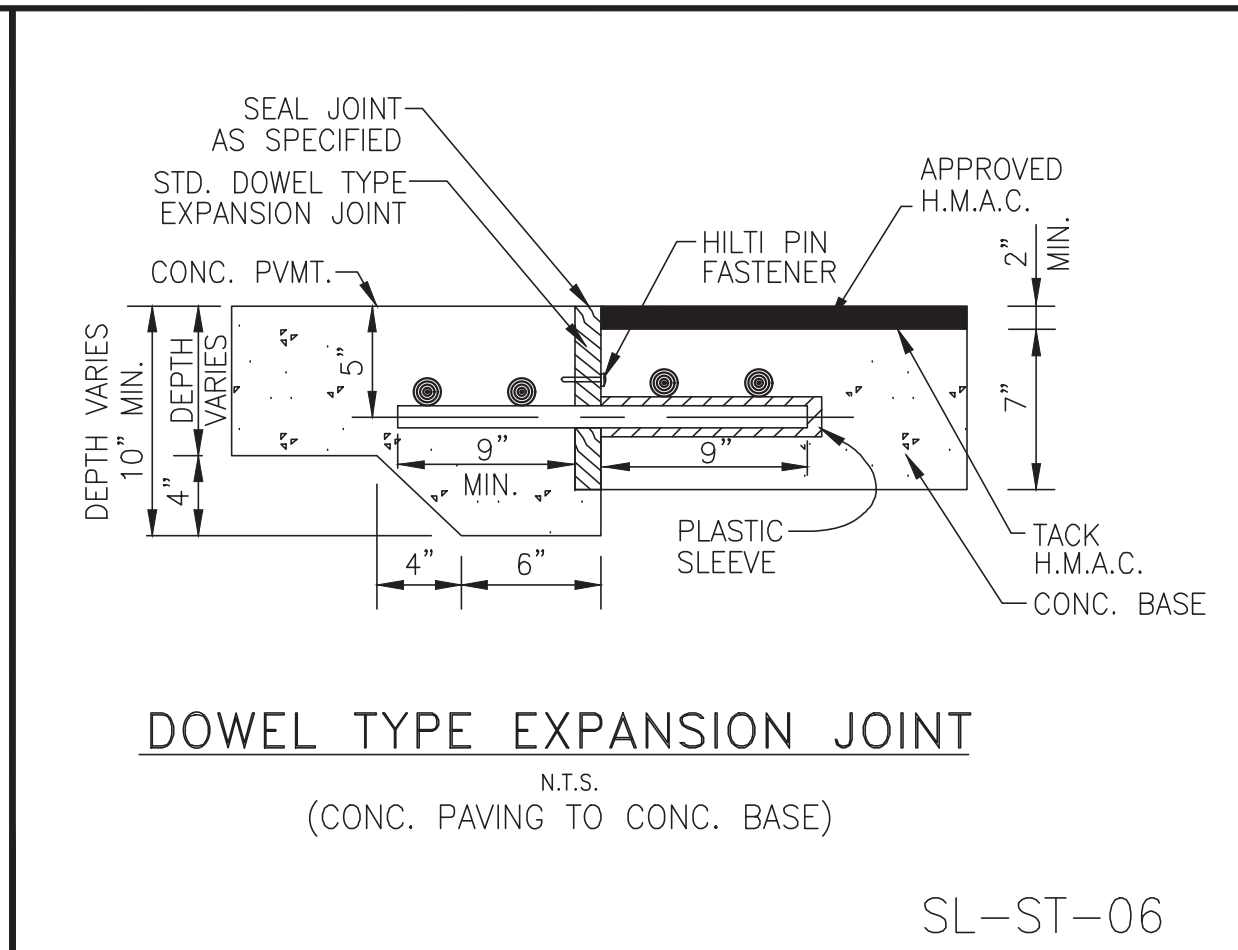
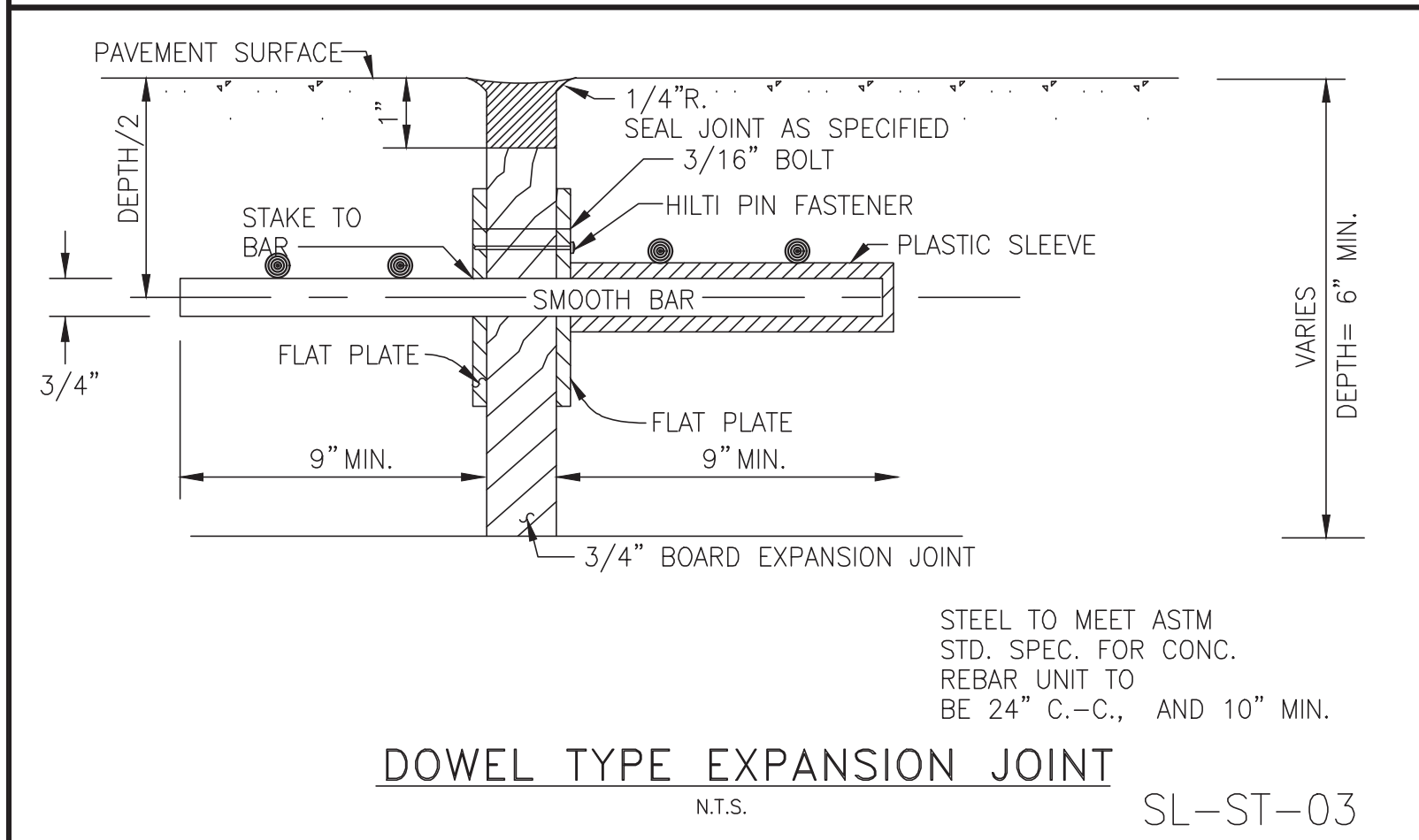
WATER LINE, SANITARY
SEWER FORCE MAIN
BEDDING DETAILS
SL-19

PROJECT NO. 16182

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- CONSTRUCTION NOTES:
- 6 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C, E.W. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR LOCAL STREETS
 - 7 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 18 INCHES C-C, IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR STREETS
 - EIGHT (8) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 18" C.C. EACH WAY IS THE MINIMUM ACCEPTABLE FOR ARTERIAL STREETS.
 - HARD AGGREGATE IS NOT ALLOWED IN STREET PAVEMENT MIX. ADMIXTURES REQUIRE CITY OF SUGAR LAND PUBLIC WORKS DEPARTMENT APPROVAL.
 - TRANSVERSE EXPANSION JOINTS SHALL BE PLACED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY AND ALL INTERSECTION CURB RETURN POINTS. MAXIMUM SPACING SHALL BE 200' AND BE SEALED WITH SEALANT CONFORMING TO TXDOT ITEM 360 (& ITEM 438) AND TXDOT DMS-6310, CLASS-2.
 - TRANSVERSE CONTROL JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 20'-0" C-C, AND VERTICAL CURB JOINTS TO BE SEALED WITH SPECIAL JOINT SEALANT ASTM-D-1190-74 OR AASHTO-M173-60 FOR PAVEMENT 8" THICK AND GREATER. (ELASTONETRIC TYPE HOT POURED)
 - PAVEMENT FINISH SHALL BE BAKER BROOM FINISH. CURING COMPOUND REQUIRED ON ALL CONCRETE.
 - STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM QUALITY MANUAL OF THE CITY OF SUGAR LAND, CITY ENGINEER'S APPROVAL.
 - REFER TO GENERAL, C.S.S., AND PAVEMENT NOTES.



No.	DATE	REVISION

SEAL: _____

DESIGN ENGINEER: _____ DATE: _____


CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

CONCRETE PAVEMENT
CONSTRUCTION DETAILS

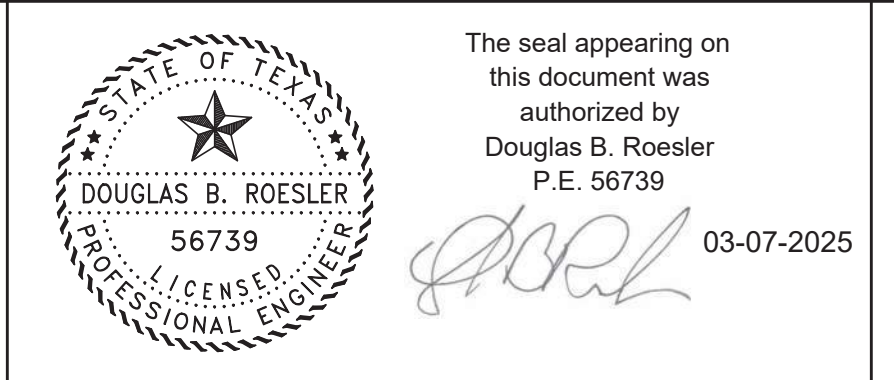
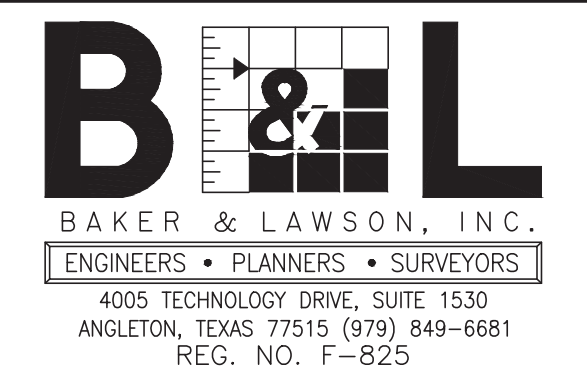
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DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
SCALE: _____

SL-21
SHEET OF

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED DR
DRAWN BT
CHECKED DR
DATE 3/6/2025

REVISIONS



OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

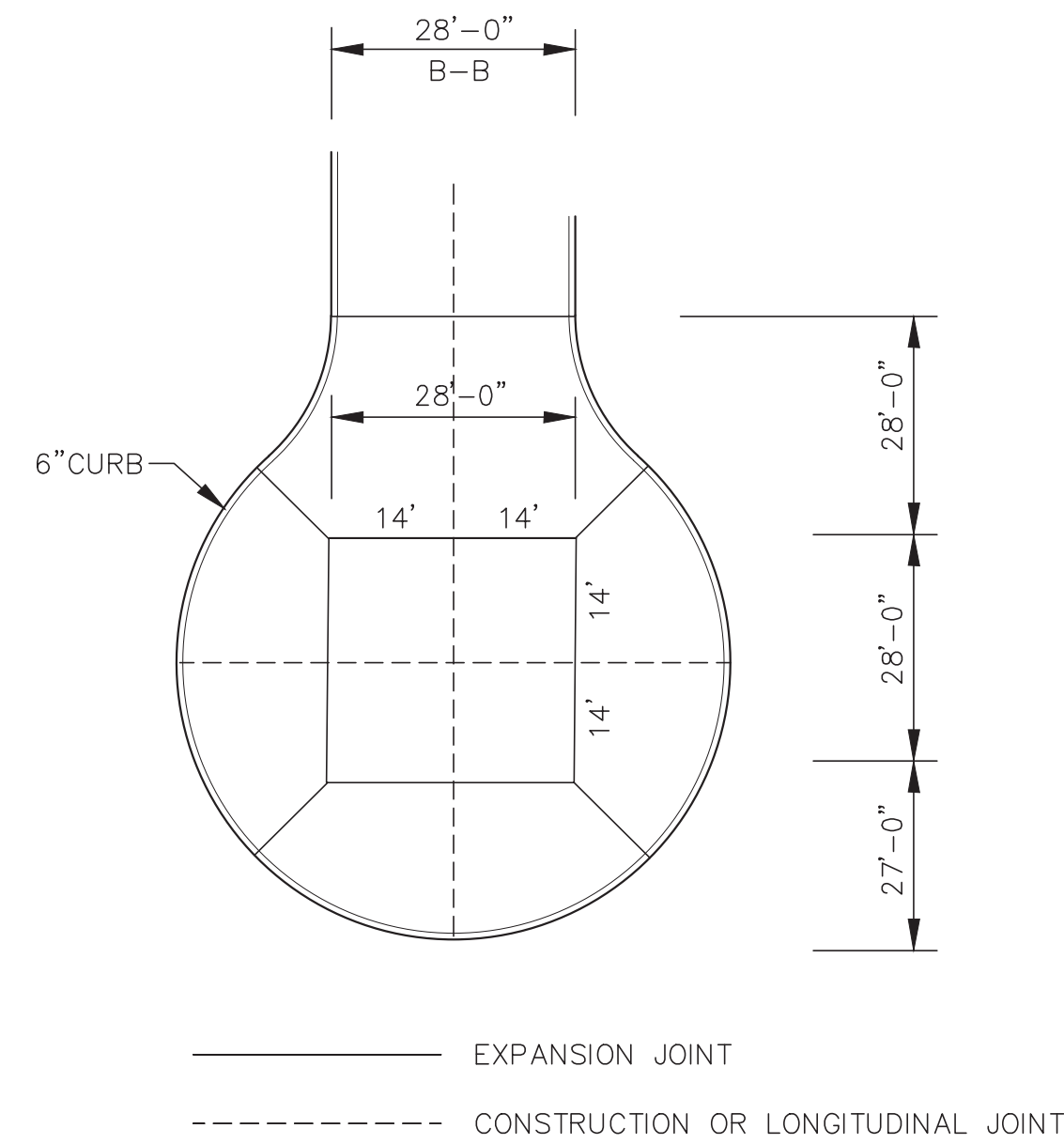
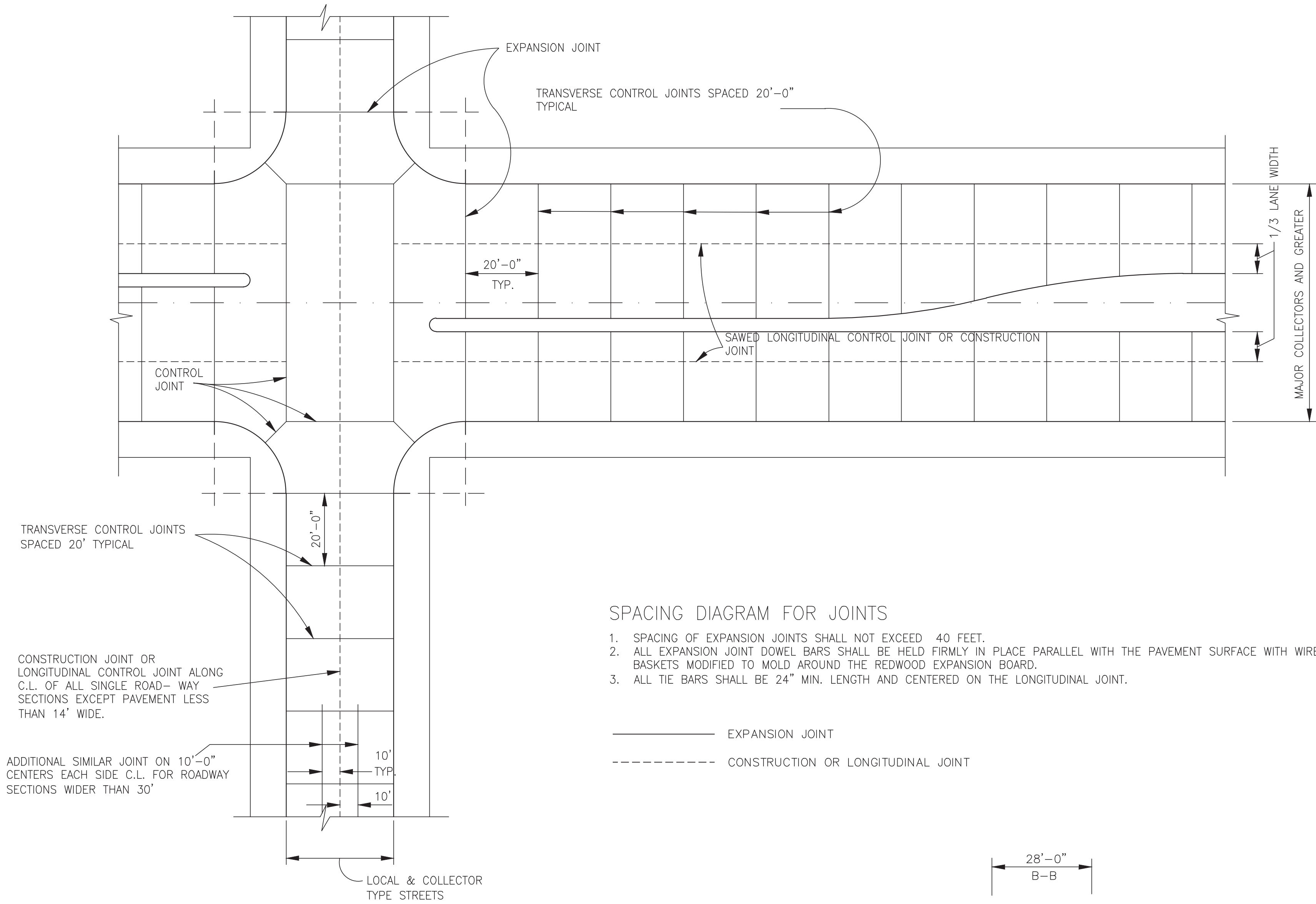
PLAN: _____
PROFILE: _____
HORIZONTAL: _____
VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX


CONCRETE PAVEMENT
CONSTRUCTION DETAILS
SL-21

PROJECT NO. 16182

J:\160005\16100\16182\ENGINEERING-SURVEY\ENGINEERING\16182 DETAIL SET.DWG PLOT DATE:3/7/2025 Upena



TYPICAL JOINT LAYOUT FOR CUL-DE-SAC

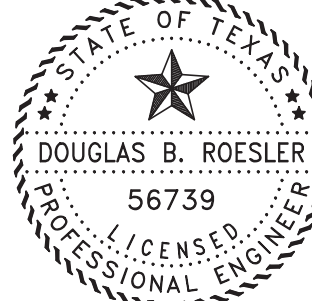
No.	DATE	REVISION
SEAL:		
DESIGN ENGINEER: _____ DATE _____		
 CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT		
CONSTRUCTION PLANS FOR:		
CONCRETE PAVEMENT CONSTRUCTION DETAILS		
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:	SL-22 SHEET OF	

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/6/2025

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825

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 03-07-2025

OWNER:
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Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN: _____
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VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

CONCRETE PAVEMENT
CONSTRUCTION DETAILS
SL-22

PROJECT NO. 16182



SL-ST-13



SL-ST-15



N.T.S

SL-ST-16



NOTES:

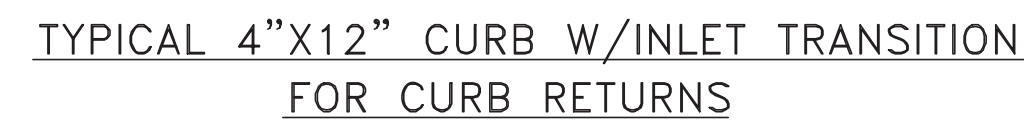
- SL-ST-17



SL-ST-18

4"x12" MOUNTABLE CONCRETE CURB AND
TRANSITION CURB NOTES:

- SL-ST-20



N.T.S.

SL-ST-14



* SEE 4" x 12" MOUNTABLE CURB DETAIL
(THIS SHEET)

CONSTRUCTION NOTES:

1. 6 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C, E.W. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR RESIDENTIAL STREETS.
2. 7 INCH, 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REINFORCED CONCRETE WITH #4 BARS 24 INCHES C-C, IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR STREETS
3. EIGHT (8) INCH, 5.5 SK, 3500 PSI @ 28 DAYS, REINFORCED WITH #4 18" C.C. EACH WAY IS THE MINIMUM ACCEPTABLE FOR ARTERIAL STREETS.
4. TRANSVERSE EXPANSION JOINTS SHALL BE PLACED AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY AND ALL INTERSECTION CURB RETURN POINTS MAXIMUM SPACING SHALL BE 200' AND BE SEALED CONFORMING TO TxDOT ITEM 360 (& ITEM 438) AND TxDOT DWS-6310, CLASS-2.
5. TRANSVERSE CONTROL JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 20'-0" C-C, AND VERTICAL CURB JOINTS TO BE SEALED WITH SPECIAL JOINT SEALANT ASTM-D-1190-74 OR AASHTO-M173-60 FOR PAVEMENT 8" THICK AND GREATER. (ELASTONETRIC TYPE HOT POURED)
6. PAVEMENT FINISH SHALL BE BAKER BROOM FINISH. CURING COMPOUND ON ALL CONCRETE.
7. STORM WATER POLLUTION PROTECTION SHALL BE DESIGNED, CONSTRUCTED, MAINTAINED AND SHALL BE IN TOTAL COMPLIANCE WITH THE STORM WATER QUALITY MANUAL OF THE CITY OF SUGAR LAND.
8. UNSTABLE SUBGRADE SHALL BE EXCAVATED AND REPLACED WITH CEMENT STABILIZED SAND.
9. USE 1"x2" REDWOOD STAKES FOR HEADERS.
10. EDGE ALL SIDES WITH EDGING TOOL.
11. DOWEL SHALL BE 3/4" DIAMETER, WITH MINIMUM 8" PENETRATION (BOTH SIDES).
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF SUGAR LAND OF ANY BIRDBATH PROBLEMS PRIOR TO CONSTRUCTION OF DRIVEWAY.
13. REFER TO GENERAL, C.S.S., AND PAVEMENT NOTES.
14. 1.0 LBS. OF APPROVED POLYPROPYLENE FIBER MESH PER C/Y IN 4"x12" CURBS REQUIRED.

SL-ST-20

No.	DATE	REVISION					
SEAL:							

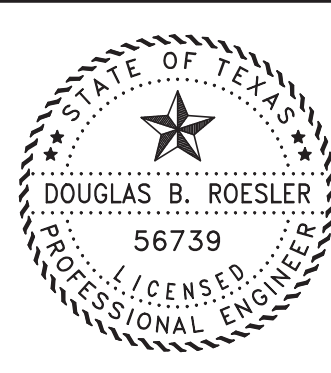
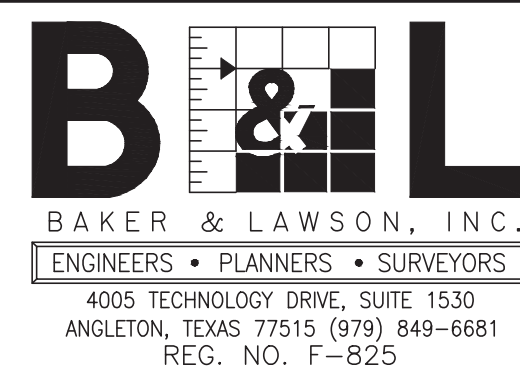
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				DRAWN <u>BT</u>
				CHECKED <u>DR</u>
NO.	DATE	DESCRIPTION	APPROVED	DATE <u>3/6/2025</u>
REVISIONS				

DESIGNED	DR
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DRAWN BT

CHECKED	DR
---------	----

DATE 3/6/2025



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Douglas B. Roesler
P.E. 56739

03-07-2025

OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN:

PROFILE:

HORIZONTAL: _____

VERTICAL: _____

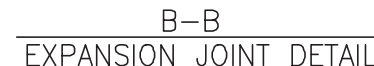
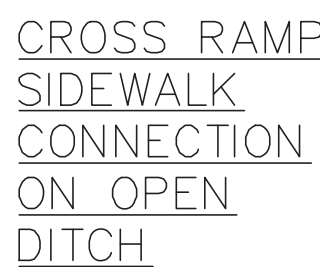
PROJECT:

Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

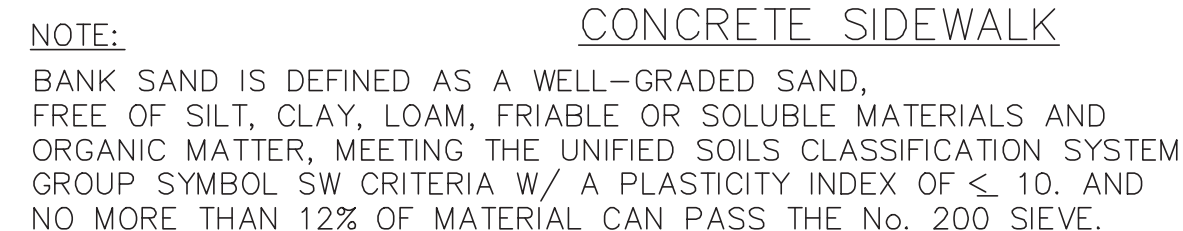
RESIDENTIAL CURB
CONSTRUCTION DETAILS
SL-23

PROJECT NO. 16182

40 |



1. THE MAXIMUM WIDTH BETWEEN EXPANSION JOINTS SHALL NOT EXCEED 20'-0"
2. EXPANSION JOINT IS TO BE 1/2" THICK CLEAR HEART REDWOOD WITH DOWELS.
3. SCORED CONTRACTION JOINTS SHALL BE EVERY 5' OR EQUAL TO WIDTH OF SIDEWALK.
4. ALL EARTHEN AREAS ARE TO BE SODDED UNLESS SHOWN OTHERWISE ON DRAWINGS.
5. 4 INCH, 5 SACK CEMENT PER CUBIC YARD CONCRETE, 3000 PSI. REINFORCED CONCRETE WITH #3 BARS, 18 INCHES C-C, FOR SIDEWALKS, #4 BARS 18" C-C FOR WHEEL CHAIR RAMPS IS THE MINIMUM ACCEPTED. MINIMUM 3 LONGITUDINAL BARS. FIBER REINFORCING SIDEWALKS-STEEL AND POLYPROPYLENE BLENDED FIBER REINFORCEMENT SYSTEM SUCH AS NOVOMESH e3 AS MANUFACTURED BY S.I. CONCRETE SYSTEMS (OR PRE-APPROVED ALTERNATE) MAY BE USED AS AN ALTERNATE TO CONVENTIONAL REBAR REINFORCING AT A DOSAGE RATE OF 24 LBS. PER CUBIC YARD OF CONCRETE.
6. USE RADIUS TOOL ON ALL EXPOSED EDGES.
7. TOP OF THE SIDEWALK ELEVATION TO BE TOP OF CURB.
8. MEMBRANE CURING COMPOUND IS REQUIRED AS DESCRIBED IN ITEM 526 IN THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
9. REFER TO GENERAL NOTES AND CONCRETE/PAVING NOTES.
10. SIDEWALK EXPANSION JOINTS SHALL CONFORM TO STREET EXPANSION JOINT STANDARDS.



SI-ST-29



SI-ST-25



HANDICAP RAMP CURB & GUTTER*

SL-ST-26



NOTE:
SEE SIDEWALK, CONC/PAVING, AND GENERAL NOTES

TYPICAL SINGLE ROADWAY SIDEWALK



TRUNCATED DOME PATTERN CURB RAMP



SL-ST-32

No.	DATE	REVISION
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SEAL:

DESIGN ENGINEER: _____ DATE _____



CONSTRUCTION PLANS FOR:

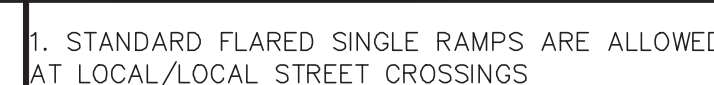
WHEEL CHAIR RAMP & SIDEWALK DETAILS I

JOB No.:
DATE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE:

SL-25
SHEET OF

HANDICAP RAMP UNDERCUT

SL-ST-27



SL-ST-30



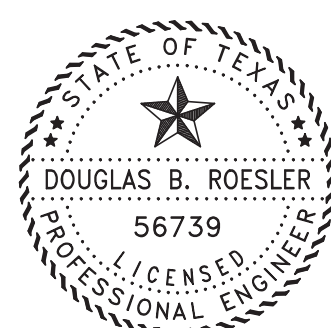
SL-ST-33

DESIGNED DR


DRAWN BT

CHECKED DR

DATE 3/6/2025



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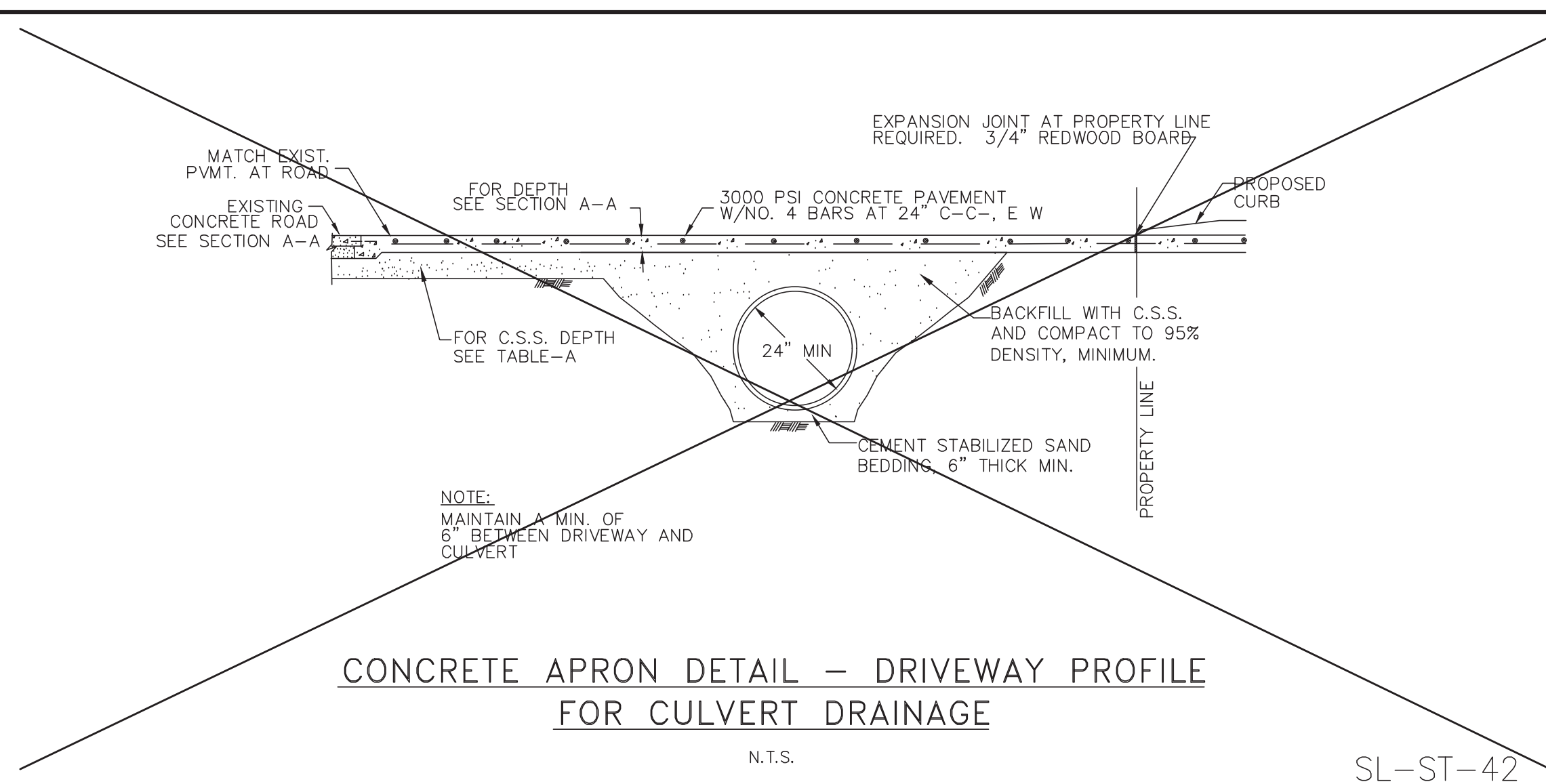
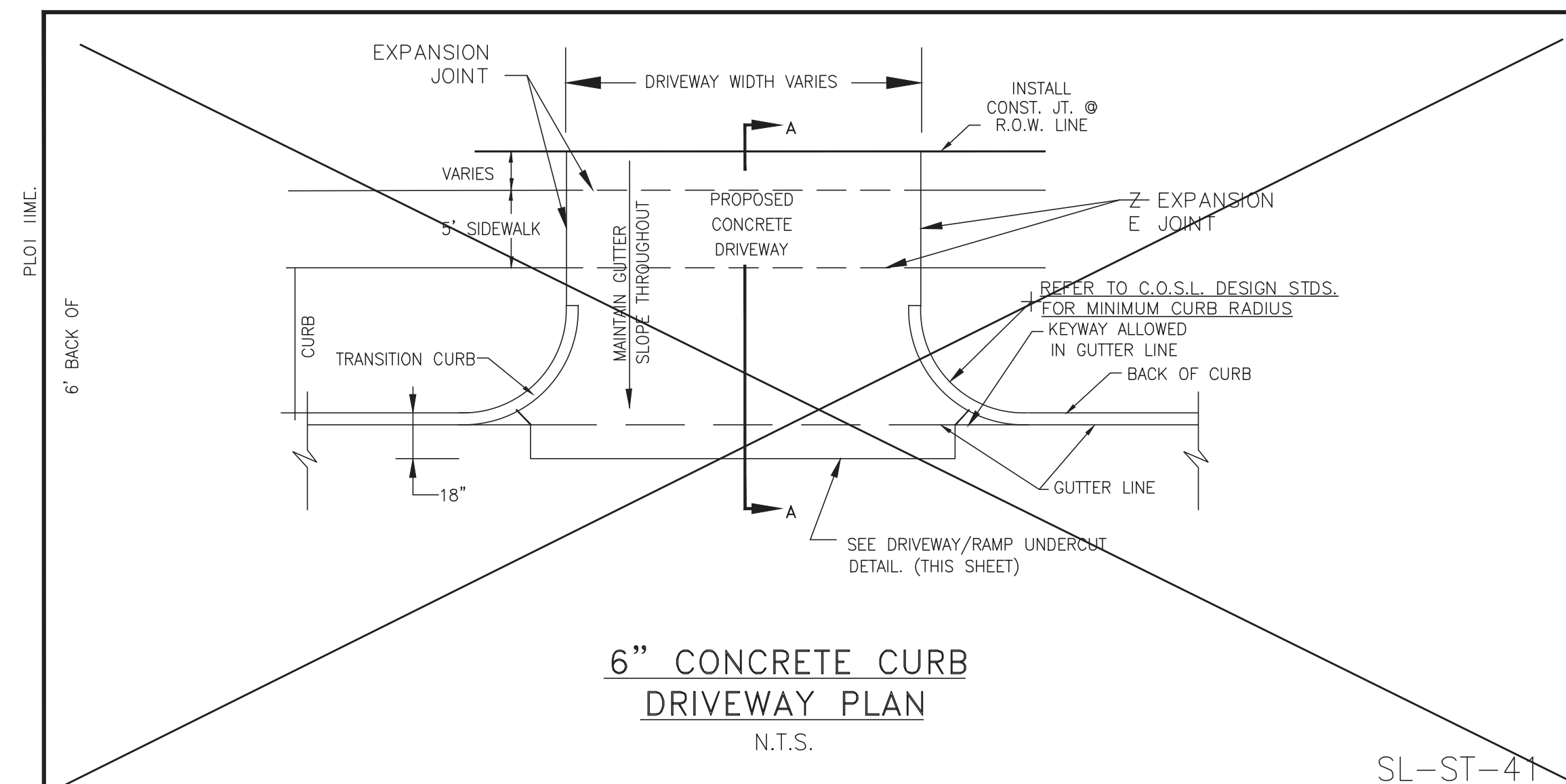
OWNER:
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Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
wavnerrea@swbell.net (713) 993-6453

PLAN: _____
 PROFILE: _____
 HORIZONTAL: _____
 VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

WHEEL CHAIR RAMP &
SIDEWALK DETAILS I
SL-25

PROJECT NO. 16182



- NOTES:

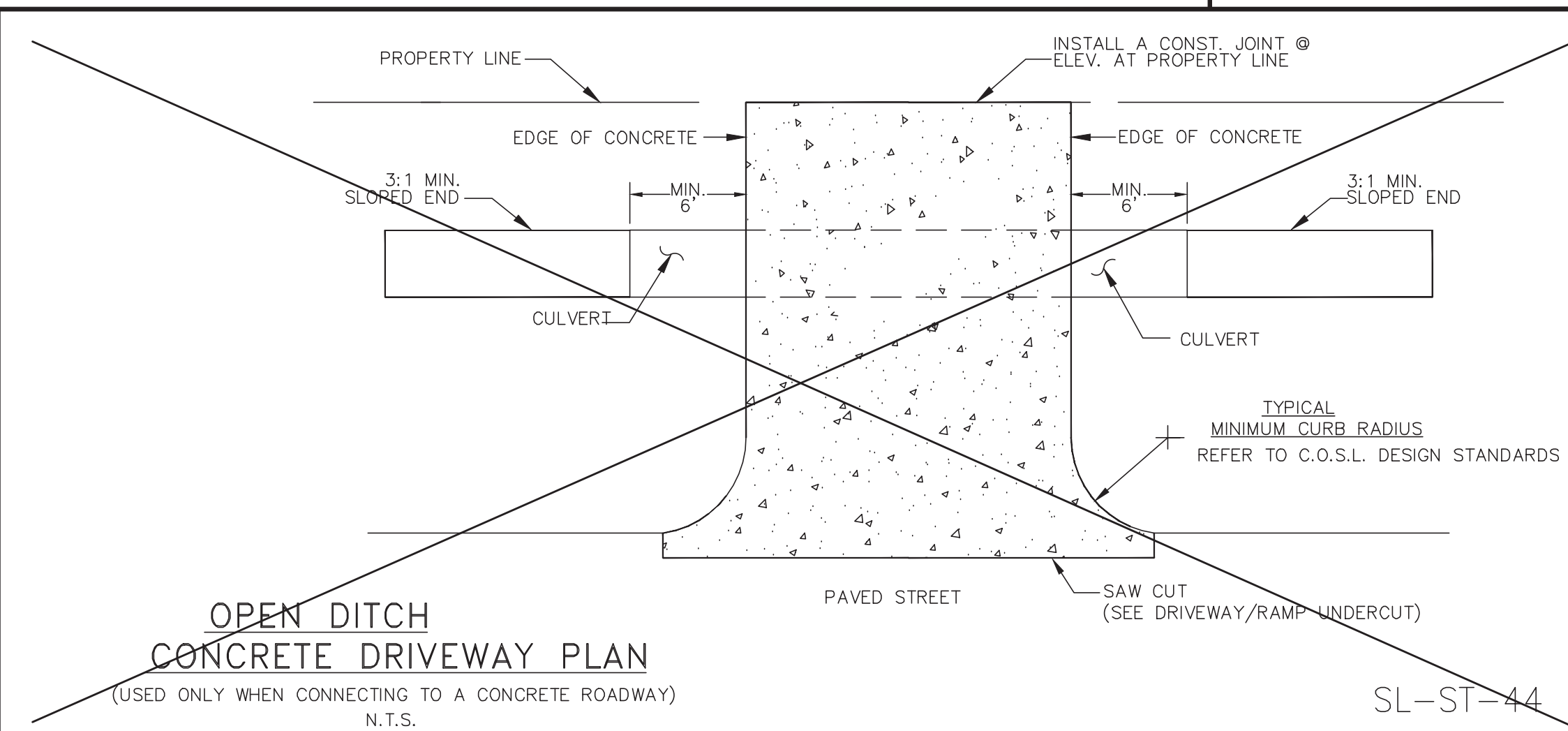
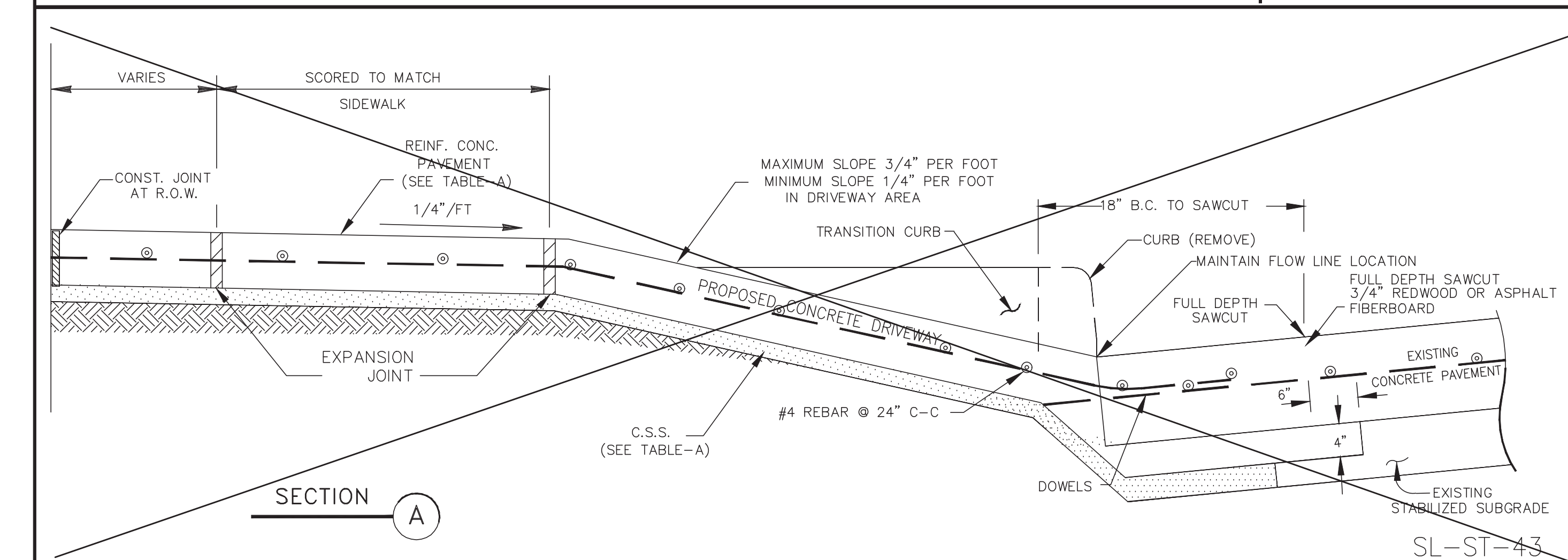
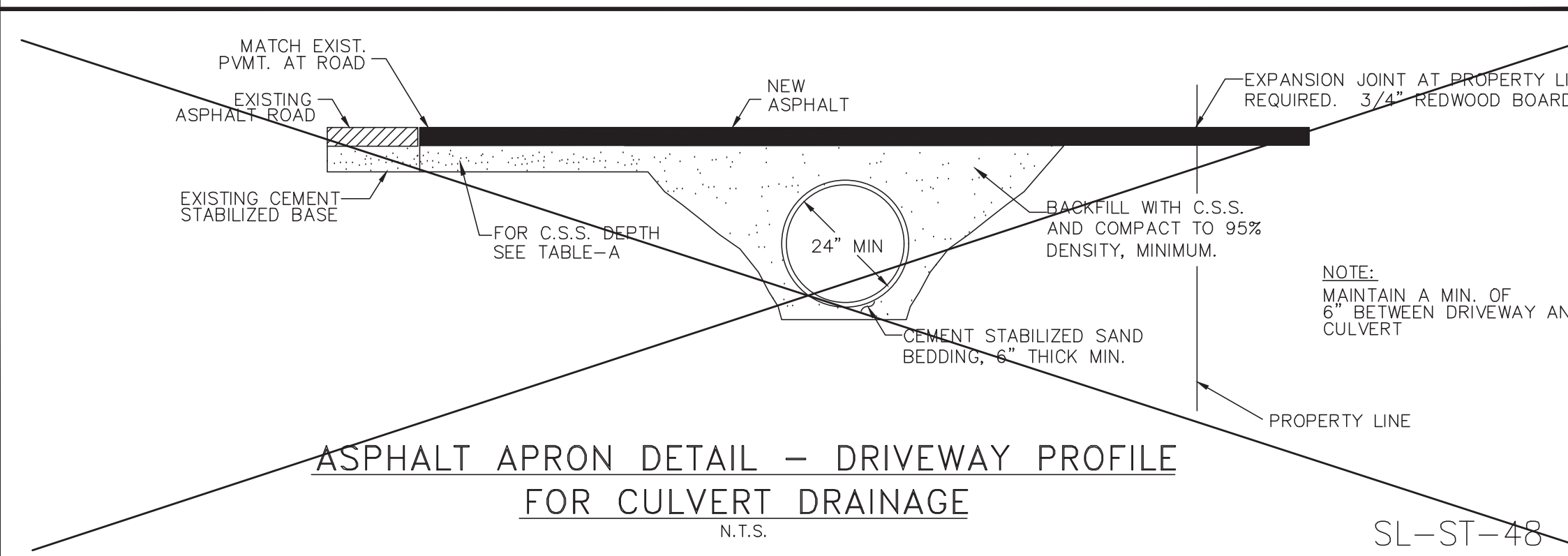
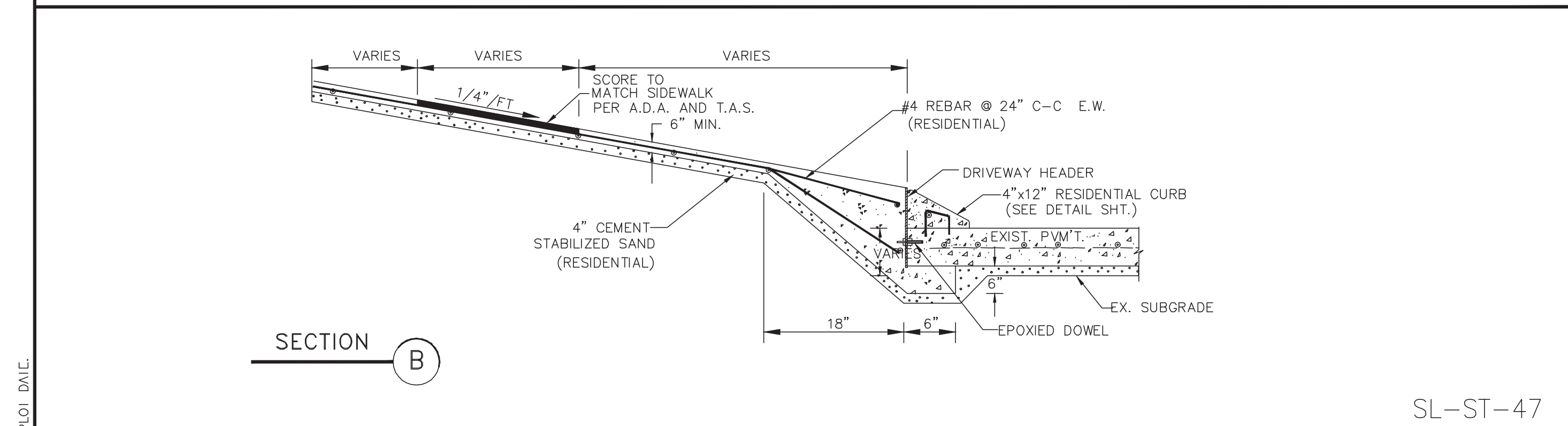
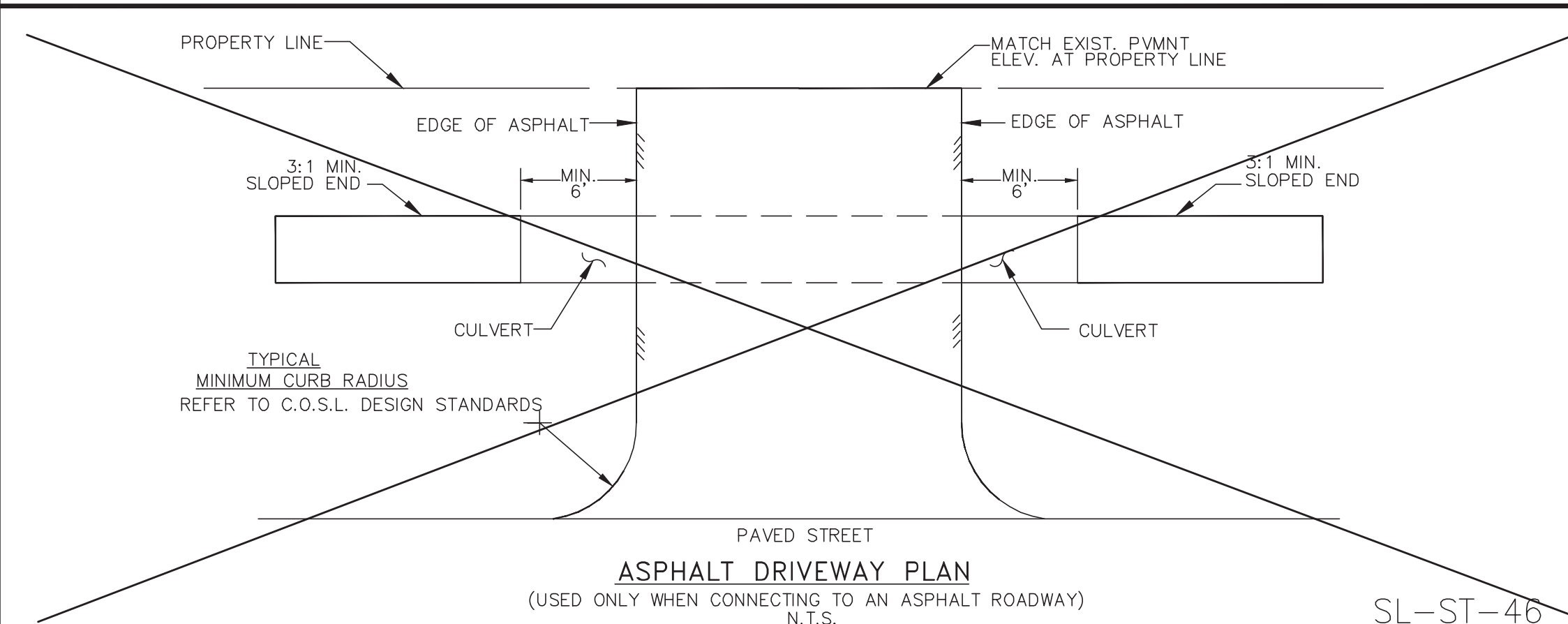
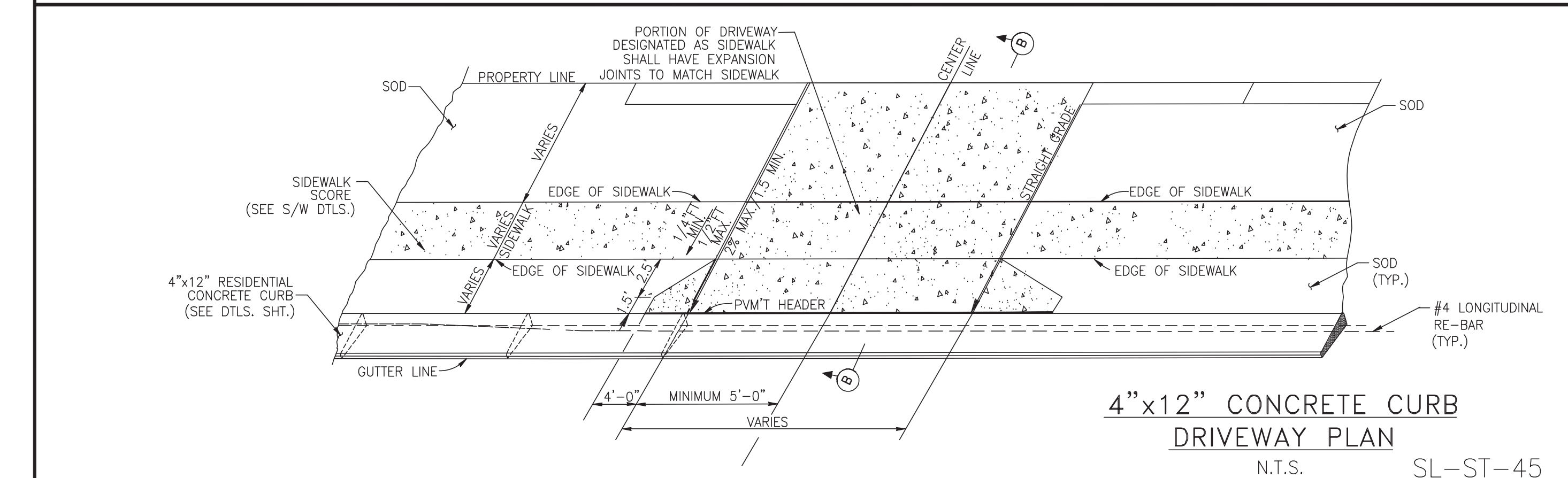
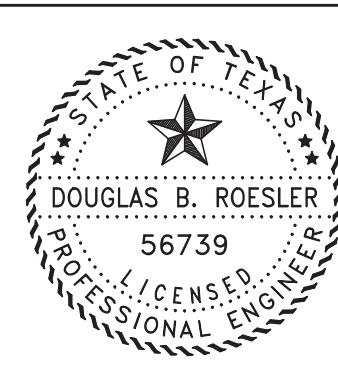
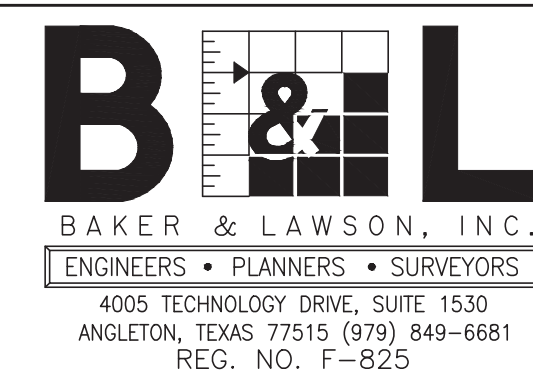


TABLE-A

DRIVEWAY PAVEMENT CONSTRUCTION TABLE



				DESIGNED _____ DR
				DRAWN _____ BT
				CHECKED _____ DR
NO.	DATE	DESCRIPTION	APPROVED	DATE _____ 3/6/2025
REVISIONS				



OWNER:
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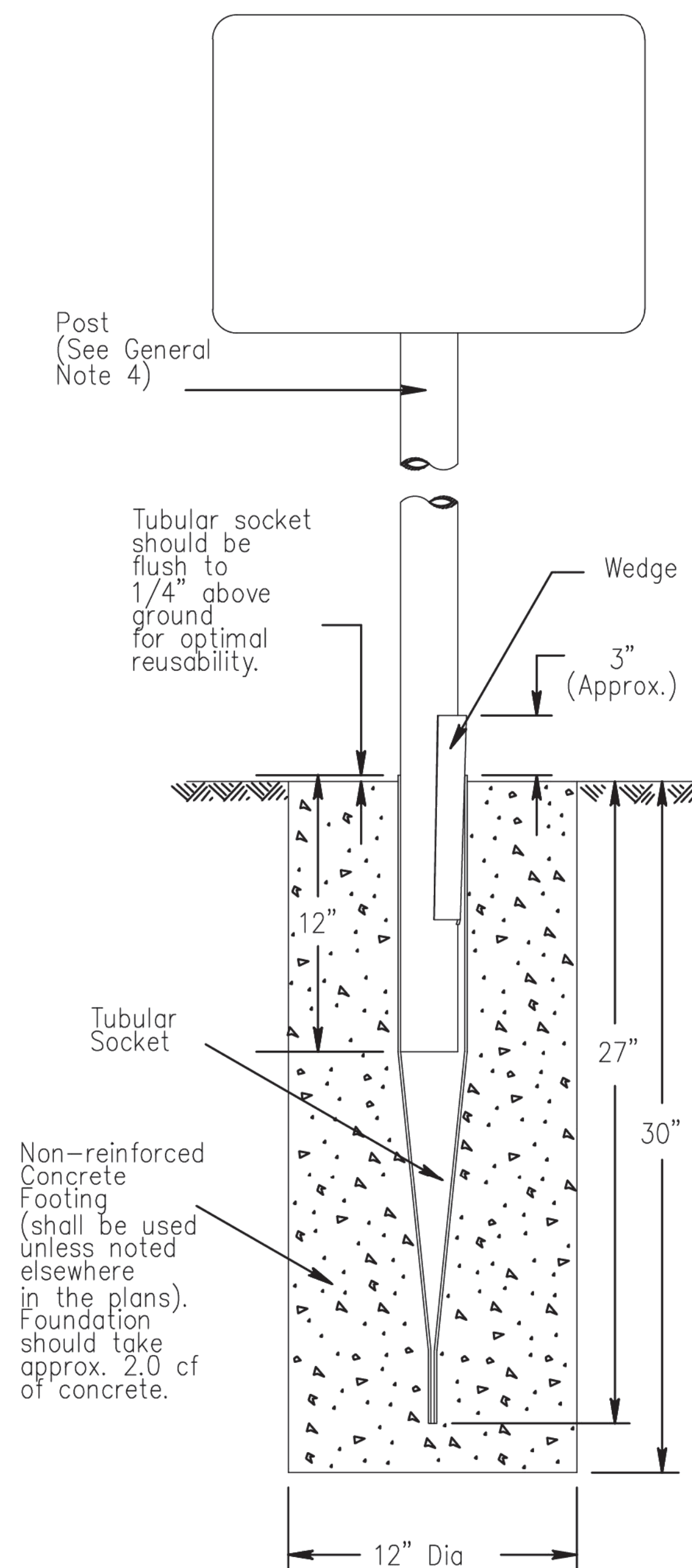
VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

DRIVEWAY
CONSTRUCTION DETAILS
SL-27

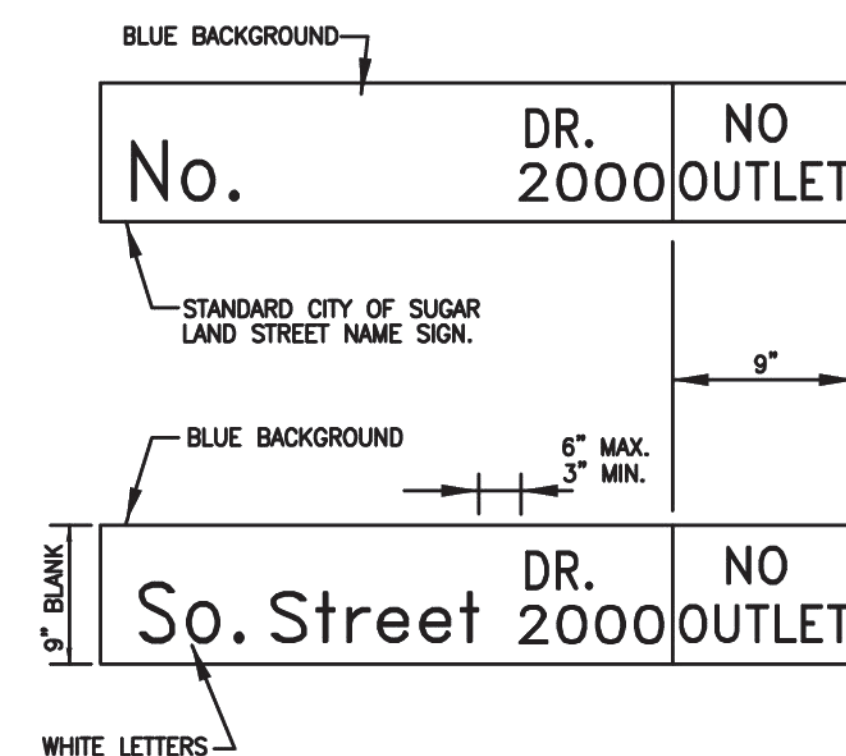
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PLOT DATE:

Post
(See General
Note 4)



SM RD SGN ASSM TY TWT(X)WA(P)

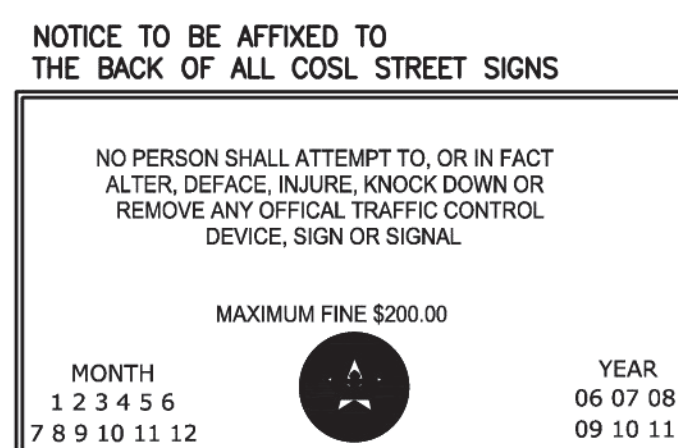
SL-ST-62



1. HELVETICA BOLD, MEDIUM STYLE; WITH 6" UPPER CASE LETTERS AND 4" LOWER CASE LETTERS.
2. REFER TO C.O.S.L. DESIGN STANDARDS FOR MORE INFO.

DETAIL OF STANDARD STREET NAME SIGN

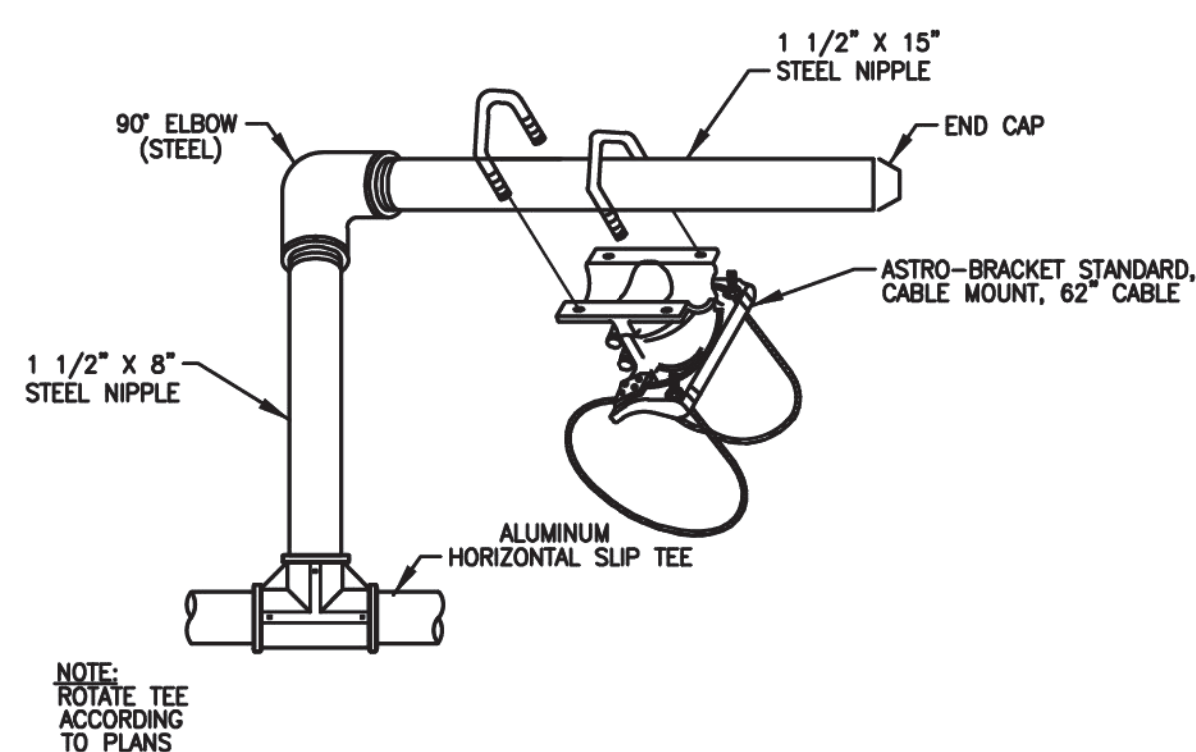
SL-ST-66



SIGN I.D. TAG DETAIL

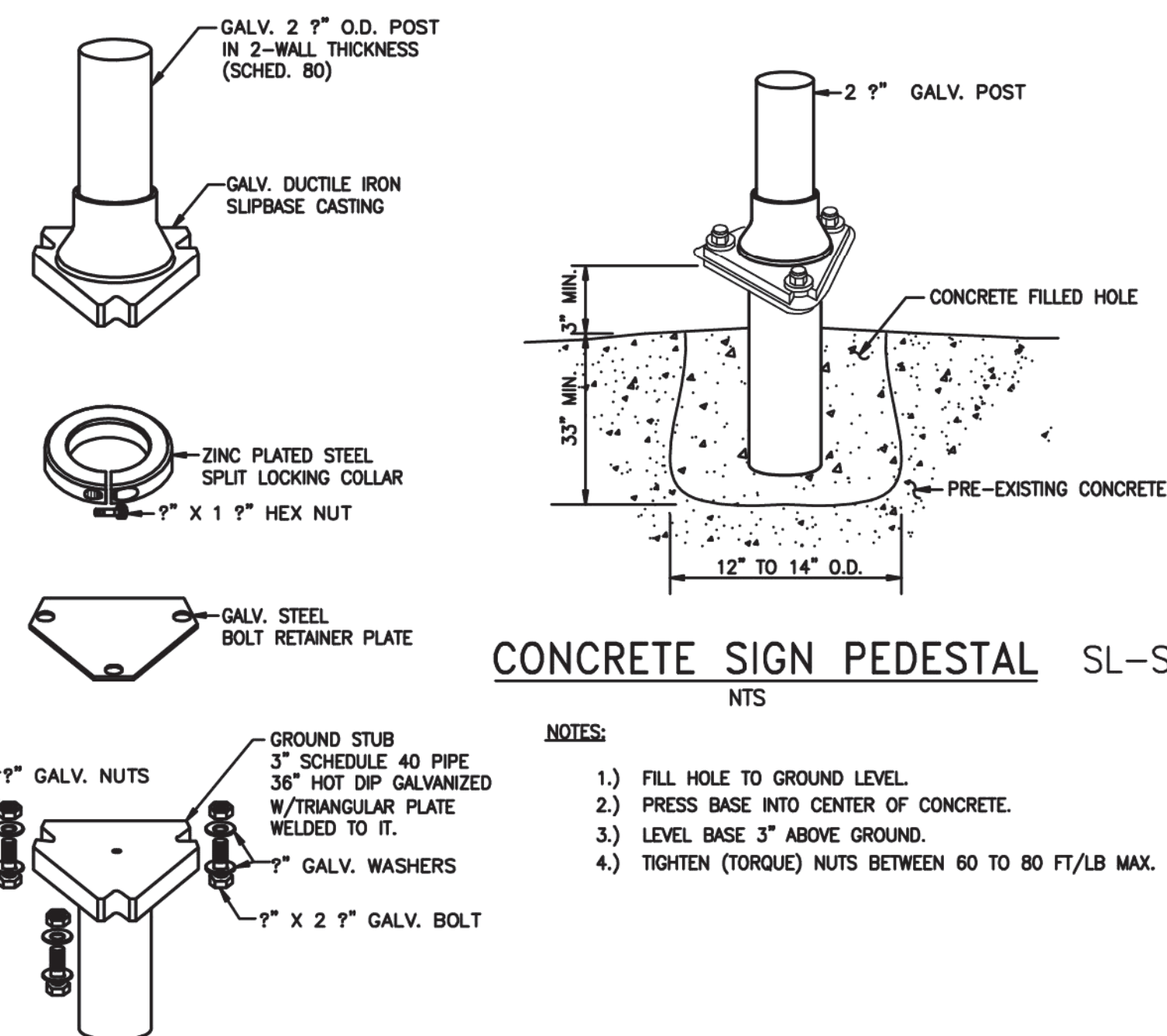
SL-ST-68

1. 2-EACH ASTRO FOR 4 SECTION AND LARGER TRAFFIC SIGNAL HEADS.



ASTRO BRACKET CABLE MOUNT DETAIL

SL-ST-63



CONCRETE SIGN PEDESTAL SL-ST-65
NTS

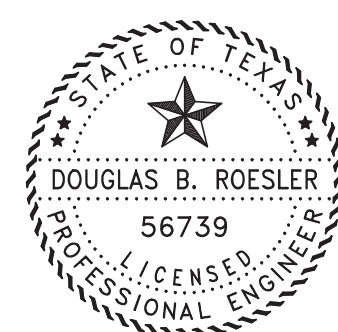
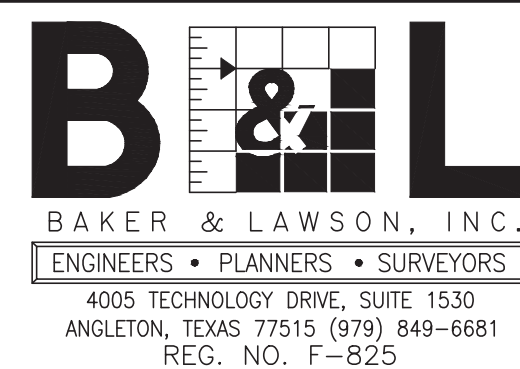
- 1.) FILL HOLE TO GROUND LEVEL.
- 2.) PRESS BASE INTO CENTER OF CONCRETE.
- 3.) LEVEL BASE 3" ABOVE GROUND.
- 4.) TIGHTEN (TORQUE) NUTS BETWEEN 60 TO 80 FT/LB MAX.

POZ-LOCK SLIPBASE SYSTEM

NTS SL-ST-64

						</	

				DESIGNED	DR
				DRAWN	BT
				CHECKED	DR
NO.	DATE	DESCRIPTION	APPROVED	DATE	3/6/2025
REVISIONS					



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PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

SIGN
CONSTRUCTION DETAILS
SL-32

PROJECT NO. 16182

J:\160005\16182\ENGINEERING-SURVEY\ENGINEERING\16182 DETAIL SET.DWG PLOT DATE:3/7/2025 jpm

HYPER-CHLORINATED WATER NOTES

1. HYPER-CHLORINATED WATER SHALL NOT BE DISCHARGED TO THE STORM SEWER OR DRAINAGE SYSTEM UNLESS THE CHLORINE CONCENTRATION IS REDUCED TO 4 PPM OR LESS BY CHEMICALLY TREATING THE DECHLORINATE OR BY ONSITE RETENTION UNTIL NATURAL ATTENUATION OCCURS.
2. DISCHARGE OF HIGH FLOW RATE AND VELOCITIES SHALL BE DIRECTED TO VELOCITY DISSIPATION DEVICES.
3. CHLORINE CAN BURN VEGETATION, SO IT SHOULD NOT BE USED TO WATER VEGETATION THAT IS BEING USED FOR STABILIZATION, VEGETATED FILTERS OR BUFFERS, OR OTHER VEGETATION TO BE PRESERVED.
4. HYPER-CHLORINATED WATER MAY BE DISCHARGED TO AN ONSITE RETENTION AREA UNTIL NATURAL ATTENUATION OCCURS. THE AREA MAY BE A DRY STORMWATER RETENTION BASIN, OR A PORTION OF THE SITE MAY BE GRADED TO FORM A TEMPORARY PIT OR BERMED AREA.
5. NATURAL ATTENUATION OF THE CHLORINE MAY BE AIDED BY AERATION. AIR CAN BE ADDED TO THE WATER BY DIRECTING THE DISCHARGE OVER A ROUGH SURFACE BEFORE IT ENTERS THE TEMPORARY RETENTION AREA OR AN AERATION DEVICE CAN BE PLACED IN THE RETENTION AREA.
6. ONSITE DISCHARGE MAY REQUIRE SEVERAL HOURS TO A FEW DAYS BEFORE THE WATER IS SAFE TO DISCHARGE. THE RATE AT WHICH CHLORINE WILL ATTENUATE IS AFFECTED BY SOIL CONDITIONS AND WEATHER CONDITIONS. ATTENUATION WILL OCCUR QUICKEST DURING WARM, SUNNY, AND DRY PERIODS.

SANITARY WASTE NOTES

1. THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE NUMBER OF PORTABLE TOILETS BASED ON THE NUMBER OF EMPLOYEES USING THE TOILETS AND THE HOURS THEY WILL WORK.
2. SANITARY FACILITIES SHALL BE PLACED ON A MINIMUM OF 50 FEET AWAY FROM STORM DRAIN INLETS, CONVEYANCE, CHANNELS OR SURFACE WATERS. IF UNABLE TO MEET THE 50 FOOT REQUIREMENT DUE TO SITE CONFIGURATION, PORTABLE TOILETS SHALL BE A MINIMUM OF 20 FEET AWAY FROM STORM DRAIN INLETS, CONVEYANCE CHANNELS OR SURFACE WATER AND SECONDARY CONTAINMENT SHALL BE PROVIDE IN CASE OF SPILLS.
3. THE LOCATION OF THE PORTABLE TOILETS SHALL BE ACCESSIBLE TO MAINTENANCE TRUCKS WITHOUT DAMAGING EROSION AND SEDIMENT CONTROLS OR CAUSING EROSION OR TRACKING PROBLEMS.
4. SANITARY FACILITIES SHALL BE FULLY ENCLOSED AND DESIGNED IN A MANNER THAT MINIMIZES THE EXPOSURE OF SANITARY WASTE TO PRECIPITATION AND STORMWATER RUNOFF.
5. WHEN HIGH WINDS ARE EXPECTED, PORTABLE TOILETS SHALL BE ANCHORED OR OTHERWISE SECURED TO PREVENT THEM FROM BEING BLOWN OVER.
6. THE COMPANY THAT SUPPLIES AND MAINTAINS THE PORTABLE TOILETS SHALL BE NOTIFIED IMMEDIATELY IF A TOILET IS TIPPED OVER OR DAMAGED IN A WAY THAT THE RESULTS IN A DISCHARGE. DISCHARGED SOLID MATTER SHALL BE VACUUMED INTO A SEPTIC TRUCK BY THE COMPANY THAT MAINTAINS THE TOILETS.
7. THE OPERATOR OF THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL BE NOTIFIED IF A DISCHARGE FROM THE PORTABLE TOILETS ENTERS THE MS4 OR A NATURAL CHANNEL.
8. SANITARY FACILITIES SHALL NOT BE PERMITTED ON PUBLIC SIDEWALKS, STREETS OR INLETS.

DEBRIS AND TRASH NOTES

1. ALL WASTE SOURCES AND STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL MATERIAL AND WASTE SOURCES BE CLOSER THAN 20 FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS.
2. CONSTRUCTION WASTE AND TRASH SHALL BE STORED IN A MANNER THAT MINIMIZES ITS EXPOSURE TO PRECIPITATION AND STORMWATER RUNOFF.
3. WHENEVER POSSIBLE, MINIMIZE PRODUCTION OF DEBRIS AND TRASH.
4. INSTRUCT CONSTRUCTION WORKERS IN PROPER DEBRIS AND TRASH STORAGE AND HANDLING PROCEDURES.
5. SEGREGATE POTENTIAL HAZARDOUS WASTE FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS.
6. PROHIBIT LITTERING BY WORKERS AND VISITORS.
7. POLICE SITE DAILY FOR LITTER AND DEBRIS.
8. ENFORCE SOLID WASTE HANDLING AND STORAGE PROCEDURES.
9. IF FEASIBLE, RECYCLE CONSTRUCTION AND DEMOLITION DEBRIS SUCH AS WOOD, METAL, AND CONCRETE.
10. TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AT REGULAR INTERVALS THAT ARE SCHEDULED TO EMPTY CONTAINERS WHEN THEY ARE 90 PERCENT FULL OR MORE FREQUENTLY.
11. GENERAL CONSTRUCTION DEBRIS MAY BE HAULED TO A LICENSED CONSTRUCTION DEBRIS LANDFILL.
12. USE WASTE AND RECYCLING HAULERS/FACILITIES APPROVED BY THE LOCAL MUNICIPALITY.
13. CHIPPING OF TREES AND BRUSH FOR USE SUCH AS MULCH IS PREFERRED ALTERNATIVE TO OFFSITE DISPOSAL.
14. NO WASTE, TRASH, OR DEBRIS SHALL BE BURIED, BURNED OR OTHER WISE DISPOSED OF ONSITE.
15. CLEARLY MARK ON ALL DEBRIS AND TRASH CONTAINERS WHICH MATERIALS ARE ACCEPTABLE. FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHALL MONITOR ONSITE SOLID WASTE STORAGE AND DISPOSAL PROCEDURES DAILY.

CONCRETE SAWCUTTING WASTE NOTES

1. DURING SAWCUTTING OPERATIONS, THE SLURRY AND CUTTINGS SHALL BE CONTINUOUSLY VACUUMED OR OTHERWISE RECOVERED AND NOT BE ALLOWED TO DISCHARGE FROM THE SITE.
2. IF THE PAVEMENT TO BE CUT IS NEAR A STORM DRAIN INLET, THE INLET SHALL BE BLOCKED BY SANDBAGS OR EQUIVALENT TEMPORARY MEASURES TO PREVENT THE SLURRY FROM ENTERING THE INLET. REMOVE THE SANDBAGS IMMEDIATELY AFTER COMPLETING SAWCUTTING OPERATIONS, SO THEY DO NOT CAUSE DRAINAGE PROBLEMS DURING STORM EVENTS.
3. SLURRY AND CUTTINGS SHALL NOT BE ALLOWED TO REMAIN ON THE PAVEMENT TO DRY OUT.
4. DEVELOP PRE-DETERMINED, SAFE SLURRY DISPOSAL AREAS.
5. COLLECTED SLURRY AND CUTTINGS SHOULD BE IMMEDIATELY HAULED FROM THE SITE FOR DISPOSAL AT A WASTE FACILITY. IF THIS IS NOT POSSIBLE, THE SLURRY AND CUTTINGS SHALL BE DISCHARGED INTO ONSITE CONTAINMENT.
6. THE ONSITE CONTAINMENT MAY BE EXCAVATED OR BERMED PIT LINED WITH PLASTIC MINIMUM OF 10 MILIMETERS THICK. IF THE PROJECT INCLUDES PLACEMENT OF NEW CONCRETE, SLURRY FROM SAWCUTTING MAY BE DISPOSED OF IN FACILITIES DESIGNATED FOR THE WASHOUT OF CONCRETE TRUCKS INSTEAD CONSTRUCTING A SEPARATE CONTAINMENT.
7. THE CONTAINMENT SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL THE COLLECTION AREA BE CLOSER THAN 20 FEET FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS.
8. SEVERAL PORTABLE, PRE-FABRICATED, CONCRETE WASHOUT, COLLECTION BASINS ARE COMMERCIALY AVAILABLE AND ARE AN ACCEPTABLE ALTERNATIVE TO AN ONSITE CONTAINMENT PIT.
9. REMOVE WASTER CONCRETE WHEN THE CONTAINMENT IS HALF FULL. ALWAYS MAINTAIN A MINIMUM OF ONE FOOT FREEBOARD.
10. ONSITE EVAPORATION OF SLURRY WATER AND RECYCLING OF THE CONCRETE WASTE IS THE PREFERRED DISPOSAL METHOD. WHEN THIS IS NOT FEASIBLE, DISCHARGE FROM THE COLLECTION AREA SHALL ONLY BE ALLOWED IF A PASSIVE TREATMENT SYSTEM IS USED TO REMOVE THE FINES. MECHANICAL MIXING IS REQUIRED IN THE COLLECTION AREA. THE pH MUST BE TESTED, AND DISCHARGE IS ALLOWED IN IF THE pH DOES NOT EXCEED 8.0. THE pH MAY BE LOWERED BY ADDING SULFURIC ACID TO THE SLURRY WATER.
11. CARE SHALL BE EXERCISED WHEN TREATING THE SLURRY WATER FOR DISCHARGE. MONITORING MUST BE IMPLEMENTED TO VERIFY THAT DISCHARGES FROM THE COLLECTION AREA DO NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
12. GEOTEXTILE FABRICS SUCH AS THOSE USED FOR SILT FENCE SHOULD NOT BE USED TO CONTROL SAWCUTTING WASTE, SINCE THE GRAIN SIZE IS SIGNIFICANTLY SMALLER THAN THE APPARENT OPENING SIZE OF THE FABRIC.

SPILL AND LEAK RESPONSE NOTES


1. RECORDS OF RELEASES THAT EXCEED THE REPORTABLE QUANTITY (RQ) FOR OIL AND HAZARDOUS SUBSTANCES SHOULD BE MAINTAINED IN ACCORDANCE WITH THE FEDERAL AND STATE REGULATIONS.
2. EMERGENCY CONTACT INFORMATION AND SPILL RESPONSE PROCEDURES SHALL BE POSTED IN A READILY AVAILABLE REA FOR ACCESS BY ALL EMPLOYEES AND SUBCONTRACTORS.
3. SPILL CONTAINMENT KITS SHOULD BE MAINTAINED FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS THAT ARE REGULARLY ONSITE. MATERIALS IN KITS SHOULD BE BASED ON CONTAINMENT GUIDELINES IN THE MATERIALS SAFETY AND DATA SHEETS (MSDS) FOR THE SUBSTANCE MOST FREQUENTLY ONSITE.
4. SPILL KITS ARE INTENDED FOR RESPONSE TO SMALL SPILLS, TYPICALLY LESS THAN 5 GALLONS, OF SUBSTANCES THAT ARE NOT EXTREMELY HAZARDOUS.
5. SIGNIFICANT SPILLS OR OTHER RELEASES WARRANT IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS.
6. SUSPECTED JOB-SITE CONTAMINATION SHOULD BE IMMEDIATELY REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE ACTIONS TAKEN.
7. THE CONTRACTOR SHOULD BE REQUIRED TO DESIGNATE A SITE SUPERINTENDENT, FOREMAN, SAFETY OFFICER, OR OTHER SENIOR PERSON WHO IS ONSITE DAILY TO BE THE SPILL AND LEAK RESPONSE COORDINATOR (SLRC) AND MUST HAVE KNOWLEDGE OF AND BE TRAINED IN CORRECT SPILL AND LEAK RESPONSE PROCEDURES.

SUBGRADE STABILIZATION NOTES

1. MINIMIZE THE DISCHARGE OF THE CHEMICAL STABILIZERS BY THE CONTRACTOR LIMITING THE AMOUNT OF STABILIZING AGENT ONSITE TO THAT WHICH CAN BE THOROUGHLY MIXED AND COMPACTED BY THE END OF EACH WORKDAY.
2. STABILIZERS SHALL BE APPLIED AT RATES THAT RESULT IN NO RUN OFF.
3. STABILIZATION SHALL NOT OCCUR IMMEDIATELY BEFORE AND DURING RAINFALL EVENTS.
4. NO TRAFFIC OTHER THAN WATER TRUCKS AND MIXING EQUIPMENT SHALL BE ALLOWED TO PASS OVER THE AREA BEING STABILIZED UNTIL AFTER COMPLETION OF MIXING THE CHEMICAL.
5. AREA ADJACENT AND DOWNSTREAM OF STABILIZED AREAS SHALL BE ROUGHENED TO INTERCEPT CHEMICAL RUNOFF AND REDUCE RUNOFF VELOCITY.
6. GEOTEXTILE FABRICS SUCH AS THOSE USED FOR SILT FENCE SHOULD NOT BE USED TO TREAT CHEMICAL RUNOFF, BECAUSE THE CHEMICALS ARE DISSOLVED IN THE WATER AND WON'T BE AFFECTED BY A BARRIER AND THE SUSPENDED SOLIDS ARE SIGNIFICANTLY SMALLER THAN THE APPARENT OPENING SIZE OF THE FABRIC.
7. IF SOIL STABILIZERS ARE STORED ONSITE, THEY SHALL BE CONSIDERED HAZARDOUS MATERIAL AND SHALL BE MANAGED ACCORDING TO THE CRITERIA OF CHEMICAL MANAGEMENT TO CAPTURE ANY ACCIDENTAL LIME OR CHEMICAL OVERFLOW.
8. THE CONTRACRTOR SHALL INSTALL BMP'S TO ALL INLETS AND OPENINGS CONNECTED TO THE STORM SEWER SYSTEMS TO PREVENT LIME FROM ENTERING THE MS4 SYSTEM.

SANDBLASTING WASTE NOTES

1. THE CONTRACTOR SHOULD BE REQUIRED TO DESIGNATE THE SITE SUPERINTENDENT, FOREMAN, OR OTHER PERSON WHO IS RESPONSIBLE FOR SANDBLASTING TO ALSO BE RESPONSIBLE FOR SANDBLASTING WASTE MANAGEMENT.
2. PROHIBIT THE DISCHARGE OF SANDBLASTING WASTE.
3. USE ONLY INERT, NON-DEGRADABLE SANDBLAST MEDIA.
4. USE APPROPRIATE EQUIPMENT FOR THE JOB; DO NOT OVER-BLAST.
5. WHENEVER POSSIBLE, BLAST IN A DOWNWARD DIRECTION.
6. CEASE BLASTING ACTIVITIES IN HIGH WINDS OR IF WIND DIRECTION COULD TRANSPORT GRIT TO DRAINAGE FACILITIES.
7. INSTALL DUST SHIELDING AROUND SANDBLASTING AREAS.
8. COLLECT AND DISPOSE OF ALL SPENT SANDBLAST GRIT, USE DUST CONTAINMENT FABRICS AND DUST COLLECTION HOPPERS AND BARRELS.
9. NON-HAZARDOUS SANDBLAST GRIT MAY BE DISPOSED IN PERMITTED CONSTRUCTION DEBRIS LANDFILLS OR PERMITTED SANITARY LANDFILLS.
10. IF SANDBLAST MEDIA CANNOT BE FULLY CONTAINED, CONSTRUCT SEDIMENT TRAPS DOWNSTREAM FROM BLASTING AREA WHERE APPROPRIATE.
11. USE SAND FENCING WHERE APPROPRIATE IN AREAS WHERE BLAST MEDIA CANNOT BE FULLY CONTAINED.
12. IF NECESSARY, INSTALL MISTING EQUIPMENT TO REMOVE SANDBLAST GRIT FROM THE AIR PREVENT RUNOFF FROM MISTING OPERATIONS FROM ENTERING DRAINAGE SYSTEMS.
13. USE VACUUM GRIT COLLECTION SYSTEMS WHERE POSSIBLE.
14. KEEP RECORDS OF SANDBLASTING MATERIALS, PROCEDURES, AND WEATHER CONDITIONS ON A DAILY BASIS.
15. TAKE ALL REASONABLE PRECAUTIONS TO ENSURE THAT SANDBLASTING GRIT IS CONTAINED AND KEPT AWAY FROM DRAINAGE STRUCTURES.
16. SAND BLASTING MEDIA SHOULD ALWAYS BE STORED UNDER COVER AWAY FROM DRAINAGE STRUCTURES.
17. ENSURE THAT STORED MEDIA OR GRIT IS NOT SUBJECTED TO TRANSPORT BY WIND.
18. ENSURE THAT ALL SANDBLASTING EQUIPMENT AND STORAGE CONTAINERS COMPLY WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.
19. CAPTURE AND TREAT RUNOFF WHICH COMES INTO CONTACT WITH SANDBLASTING MATERIALS OR WASTE.

No.	DATE	REVISION
SEAL:		
DESIGN ENGINEER: _____ DATE _____		
<div><div>CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT</div></div>		
CONSTRUCTION PLANS FOR:		
GENERAL EROSION CONTROL NOTES		
JOB No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:		SL-33 SHEET OF

NO.	DATE	DESCRIPTION	APPROVED	
REVISIONS				

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/6/2025

B

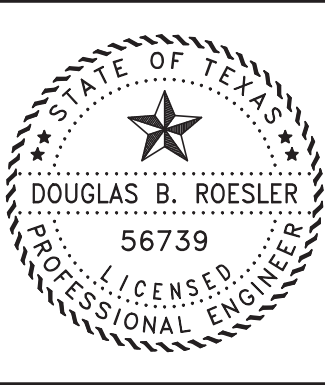
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BAKER & LAWSON, INC.

ENGINEERS • PLANNERS • SURVEYORS

4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6661
REG. NO. F-825



The seal appearing on this document was authorized by Douglas B. Roessler P.E. 56739

DR 03-07-2025

OWNER:
Wayne L. “Sandy” Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
***waynerea@swbell.net* (713) 993-6453**

PLAN: _____

PROFILE: _____

HORIZONTAL: _____

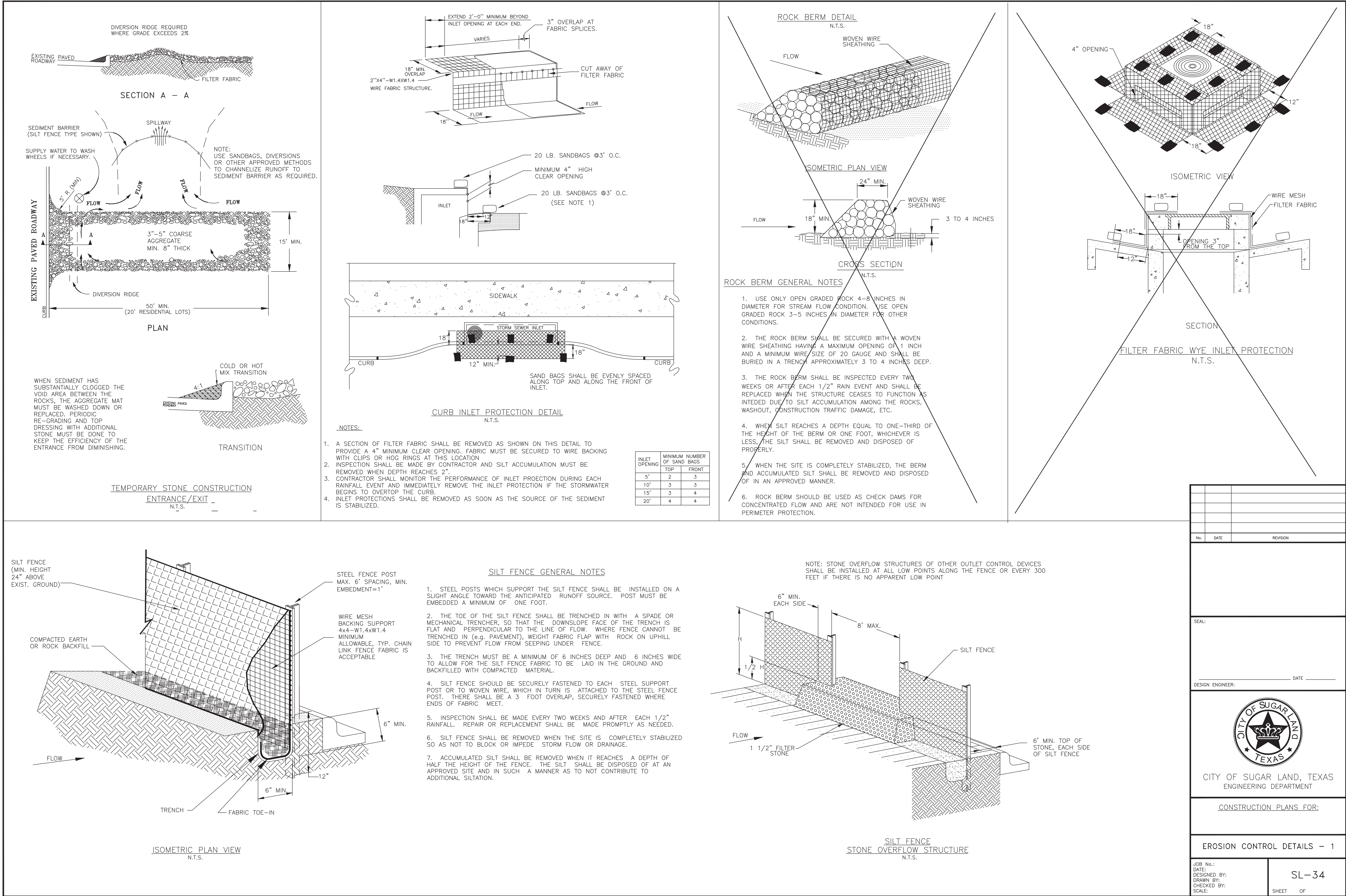
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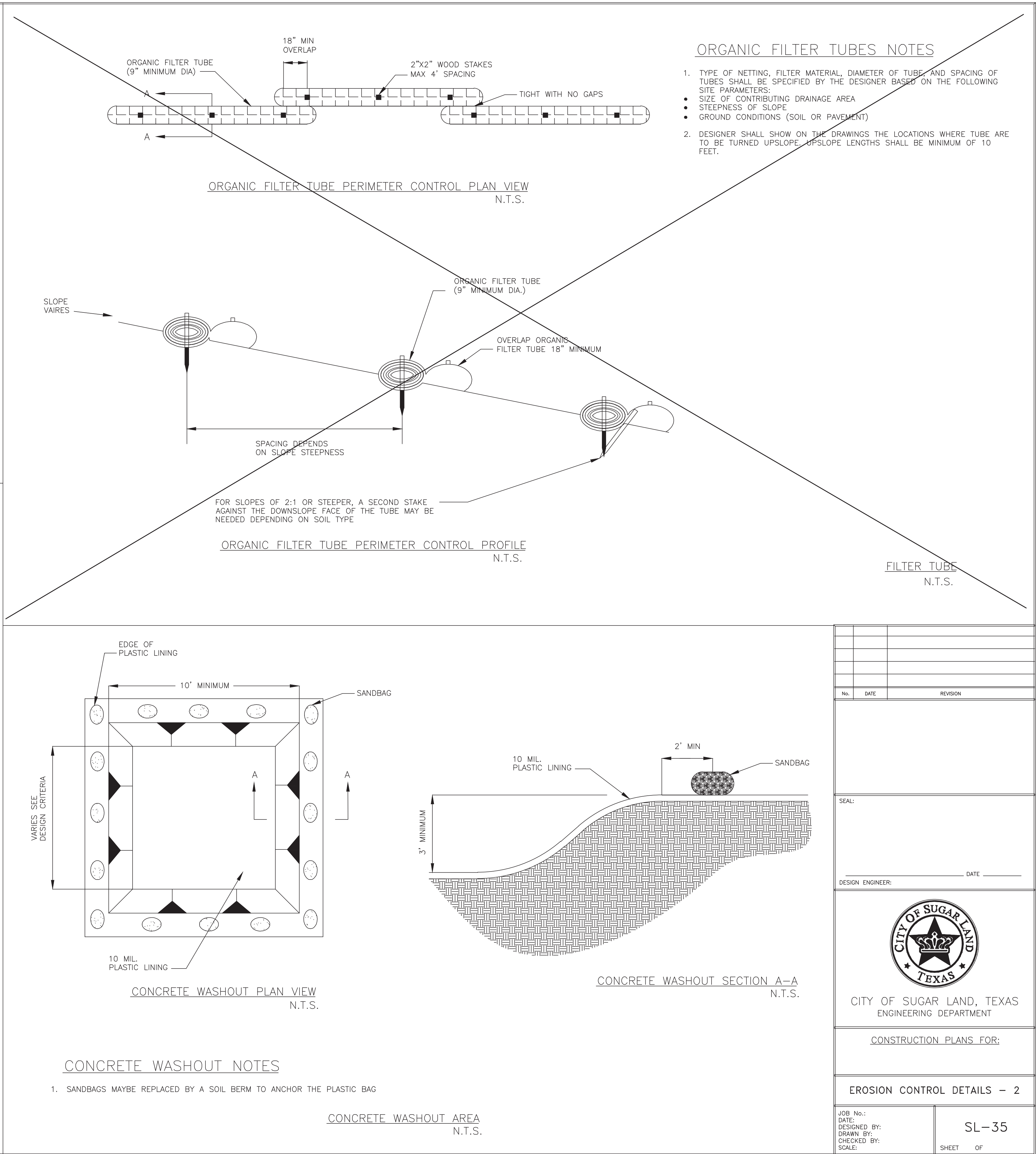
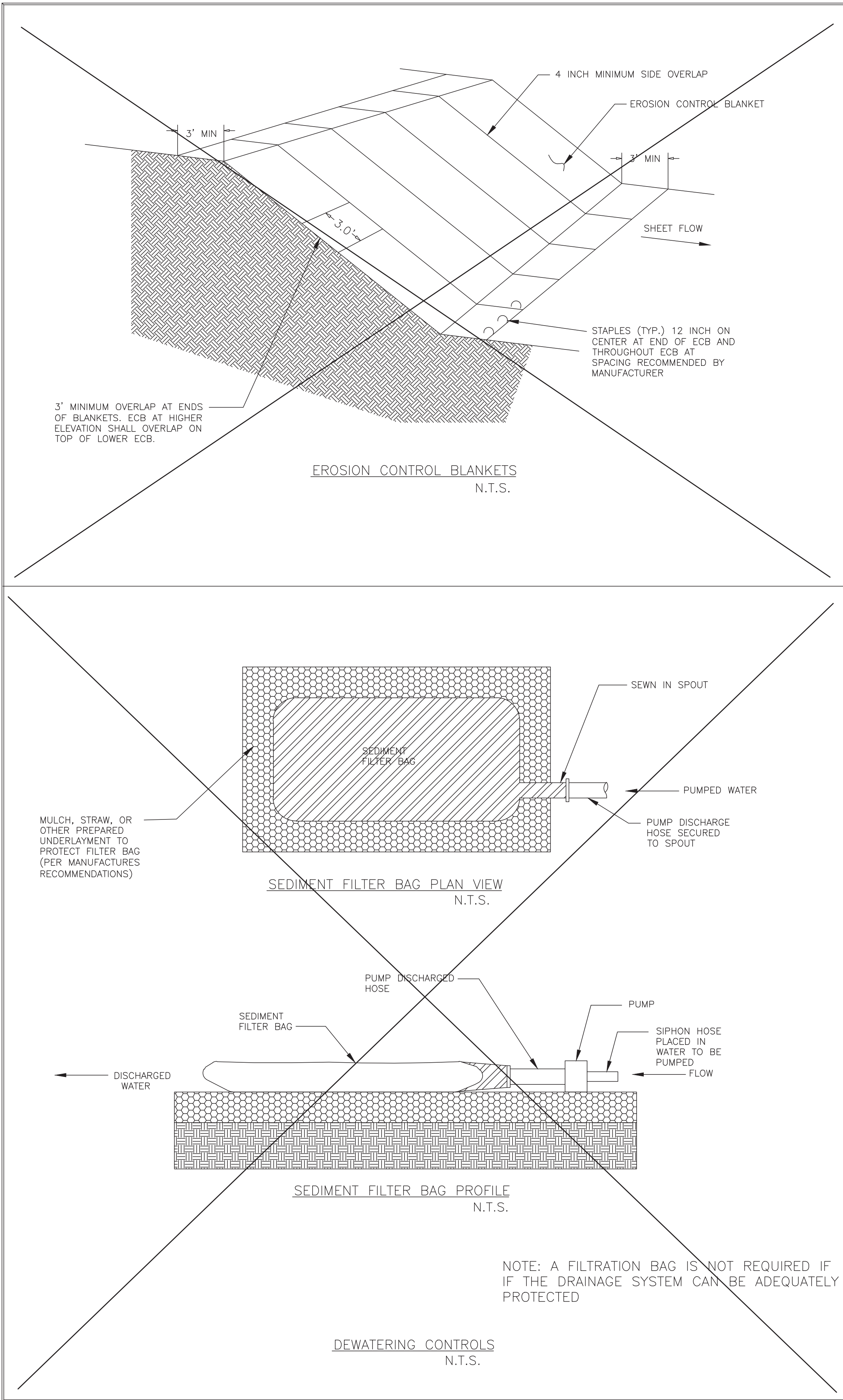
PROJECT:

Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

GENERAL EROSION CONTROL NOTES
SL-33

PROJECT NO. 16182






No.	DATE	REVISION

DESIGN ENGINEER: _____ DATE: _____

SEAL:


CITY OF SUGAR LAND, TEXAS
ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

EROSION CONTROL DETAILS - 2

JOB No.:
DATE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE:

SL-35
SHEET OF

NO.	DATE	DESCRIPTION	APPROVED

REVISIONS

DESIGNED	DR
DRAWN	BT
CHECKED	DR
DATE	3/6/2025

B & L
BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825

STATE OF TEXAS
DOUGLAS B. ROESLER
P.E. 56739
4002
03-07-2025

OWNER:
Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
5454 Newcastle Drive Unit# 1101
Houston, Texas 77081
waynerea@swbell.net (713) 993-6453

PLAN:	_____
PROFILE:	_____
HORIZONTAL:	_____
VERTICAL:	_____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

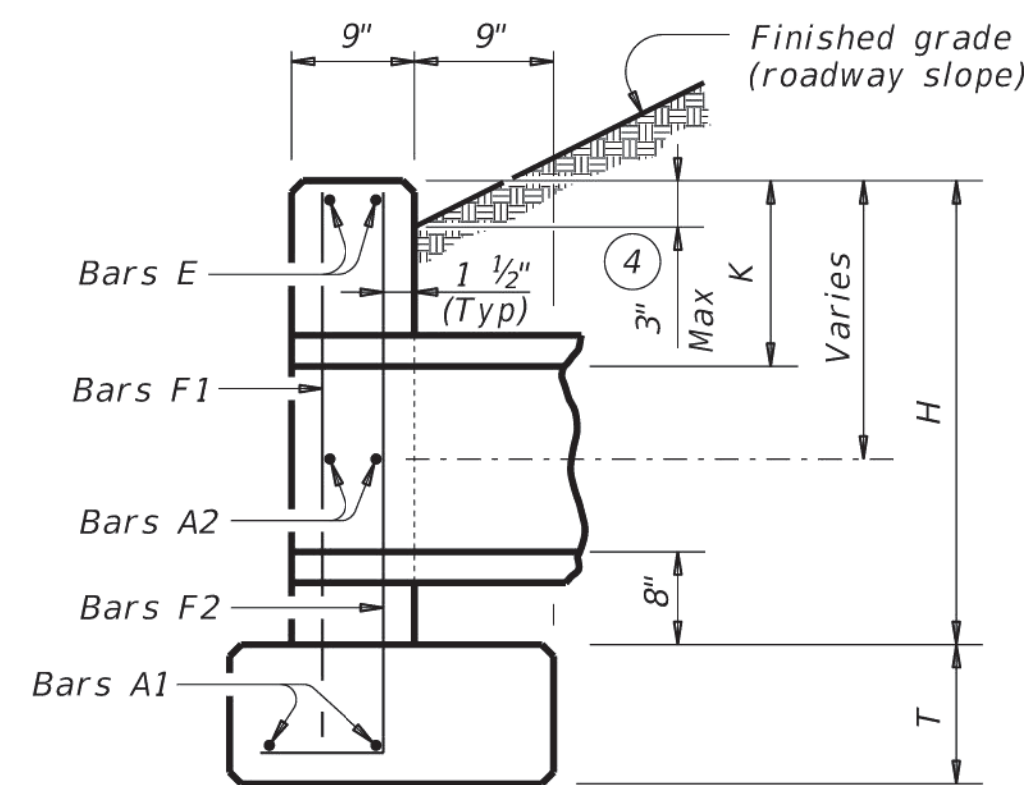
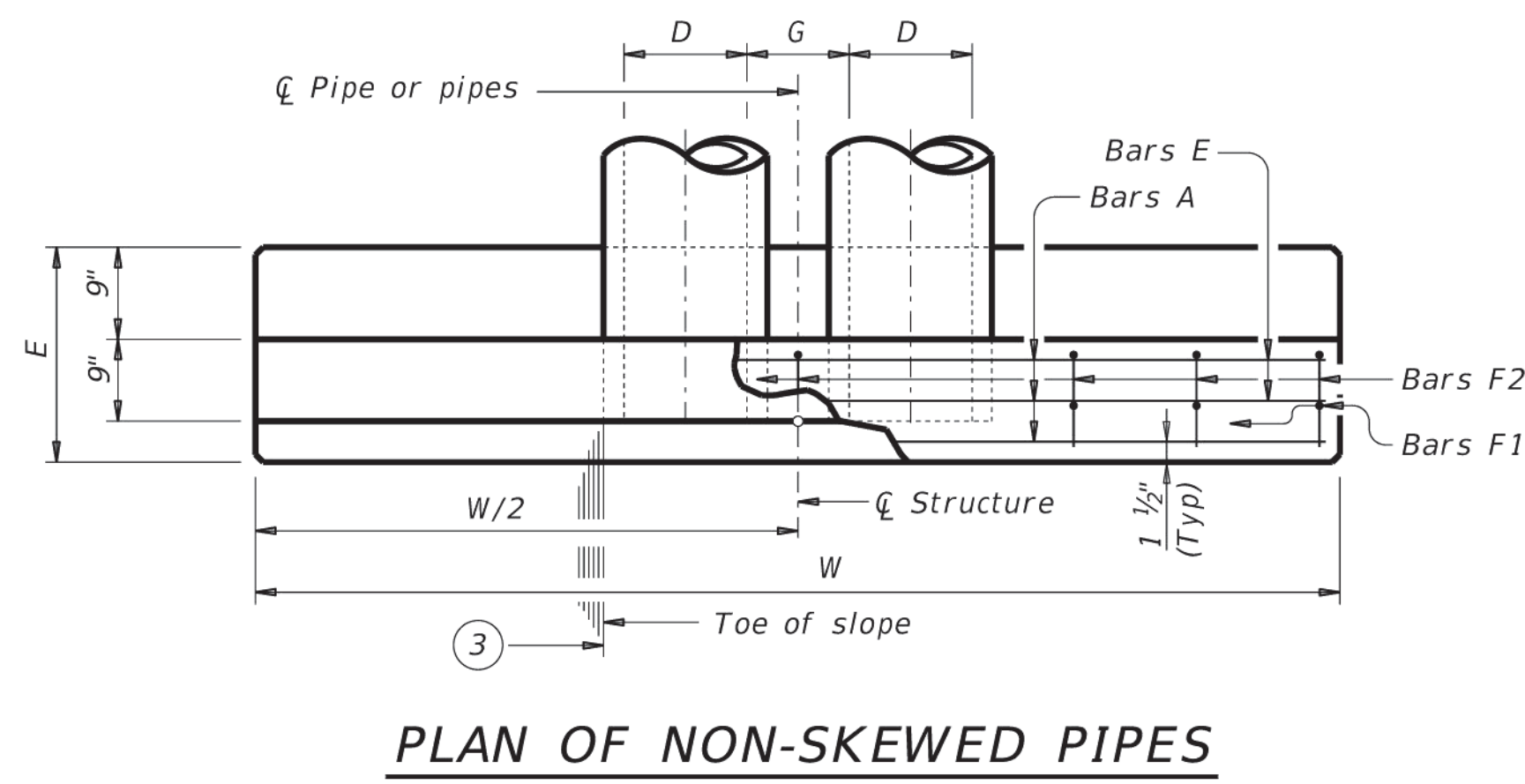
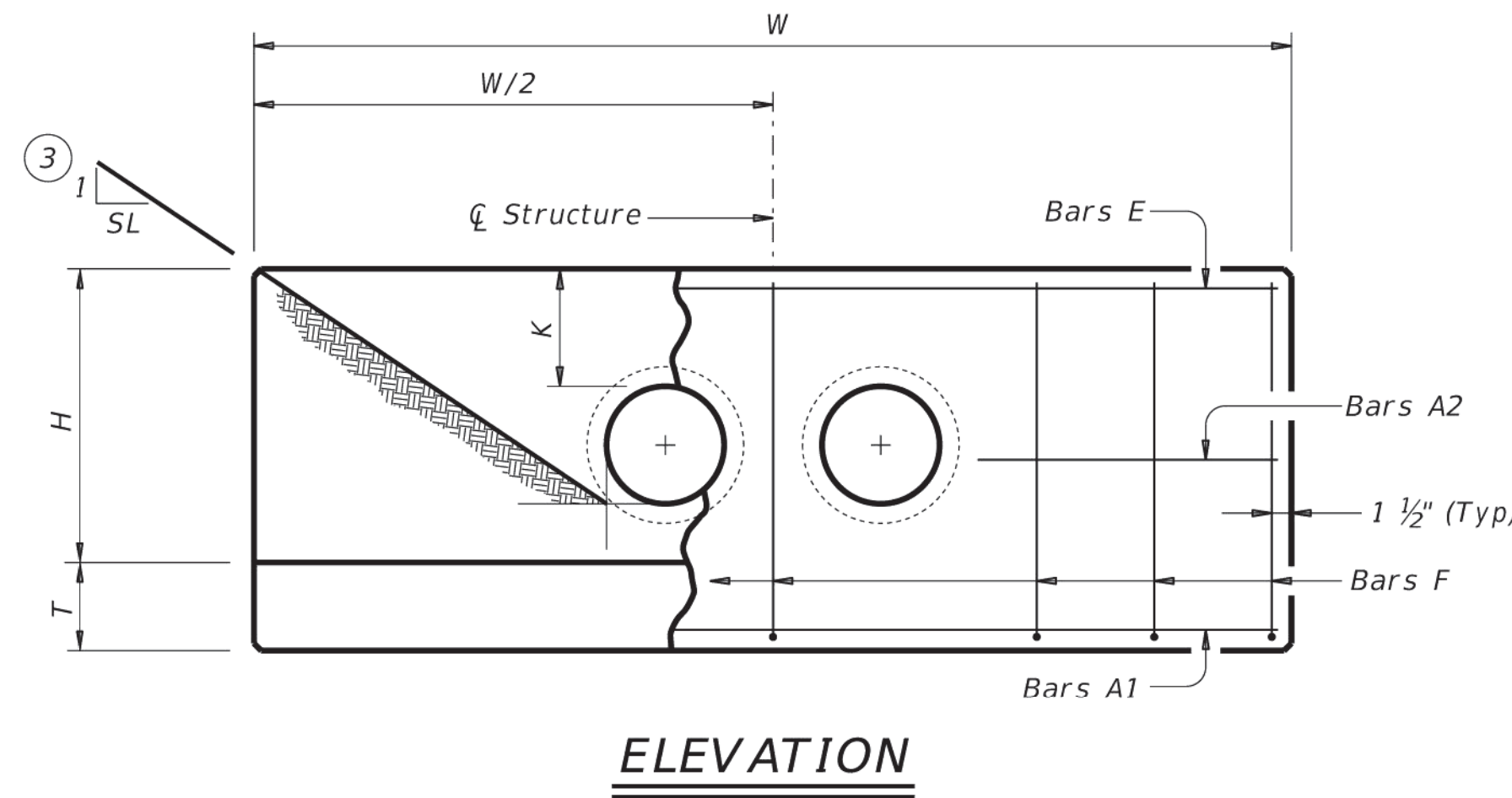
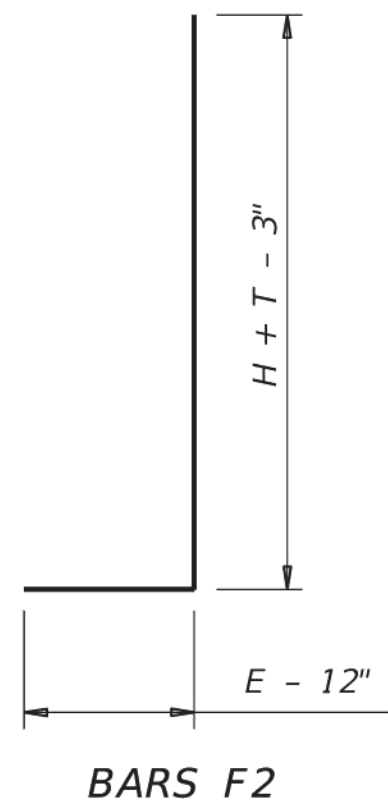
EROSION CONTROL
DETAILS - 2
SL-35

PROJECT NO. 16182

J:\160005\16100\16182\ENGINEERING-SURVEY\ENGINEERING\16182 DETAIL SET.DWG PLOT DATE:3/7/2025 jpm

DATE: _____
FILE: _____

Slope	Dia of Pipe (D)	Values for One Pipe			Values To Be Added for Each Add'l Pipe		
		W	Reinf (Lbs) ①	Conc (CY) ②	W	Reinf (Lbs) ①	Conc (CY) ②
2:1	12"	9' - 0"	122	1.1	1' - 9"	15	0.2
	15"	10' - 3"	136	1.3	2' - 2"	16	0.2
	18"	11' - 6"	163	1.5	2' - 8"	19	0.3
	21"	12' - 9"	200	1.8	3' - 1"	31	0.4
	24"	14' - 0"	217	2.1	3' - 7"	34	0.4
	27"	15' - 3"	254	2.4	3' - 11"	37	0.5
	30"	16' - 6"	272	2.7	4' - 4"	40	0.6
	33"	17' - 9"	314	3.1	4' - 8"	43	0.6
	36"	19' - 0"	371	3.9	5' - 1"	46	0.8
	42"	21' - 6"	442	4.9	5' - 10"	52	1.0
	48"	25' - 0"	569	6.4	6' - 7"	59	1.3
	54"	27' - 6"	701	7.5	7' - 6"	82	1.6
	60"	30' - 0"	794	8.8	8' - 3"	90	1.8
	66"	32' - 6"	894	10.2	8' - 9"	96	2.0
	72"	35' - 0"	1,055	11.7	9' - 4"	103	2.3
3:1	12"	13' - 0"	175	1.6	1' - 9"	14	0.2
	15"	14' - 9"	193	1.9	2' - 2"	17	0.2
	18"	16' - 6"	228	2.2	2' - 8"	19	0.3
	21"	18' - 3"	299	2.6	3' - 1"	31	0.4
	24"	20' - 0"	323	3.0	3' - 7"	33	0.4
	27"	21' - 9"	371	3.5	3' - 11"	37	0.5
	30"	23' - 6"	415	4.0	4' - 4"	40	0.5
	33"	25' - 3"	469	4.6	4' - 8"	43	0.6
	36"	27' - 0"	556	5.7	5' - 1"	46	0.8
	42"	30' - 6"	675	7.1	5' - 10"	52	1.0
	48"	35' - 6"	837	9.2	6' - 7"	59	1.3
	54"	39' - 0"	1,015	11.0	7' - 6"	84	1.6
	60"	42' - 6"	1,171	12.9	8' - 3"	91	1.8
	66"	46' - 0"	1,298	14.9	8' - 9"	98	2.0
	72"	49' - 6"	1,561	17.1	9' - 4"	103	2.3
4:1	12"	17' - 0"	229	2.0	1' - 9"	15	0.2
	15"	19' - 3"	266	2.4	2' - 2"	17	0.2
	18"	21' - 6"	308	2.9	2' - 8"	19	0.3
	21"	23' - 9"	382	3.5	3' - 1"	31	0.3
	24"	26' - 0"	430	3.9	3' - 7"	34	0.4
	27"	28' - 3"	486	4.7	3' - 11"	37	0.5
	30"	30' - 6"	539	5.2	4' - 4"	40	0.6
	33"	32' - 9"	603	6.0	4' - 8"	42	0.6
	36"	35' - 0"	738	7.5	5' - 1"	47	0.8
	42"	39' - 6"	881	9.3	5' - 10"	52	1.0
	48"	46' - 0"	1,102	12.1	6' - 7"	61	1.3
	54"	50' - 6"	1,364	14.4	7' - 6"	84	1.6
	60"	55' - 0"	1,547	16.9	8' - 3"	91	1.8
	66"	59' - 6"	1,741	19.5	8' - 9"	98	2.0
	72"	64' - 0"	2,077	22.4	9' - 4"	102	2.3
6:1	12"	25' - 0"	336	3.0	1' - 9"	14	0.2
	15"	28' - 3"	384	3.6	2' - 2"	17	0.2
	18"	31' - 6"	452	4.2	2' - 8"	19	0.3
	21"	34' - 9"	581	5.1	3' - 1"	31	0.4
	24"	38' - 0"	644	5.8	3' - 7"	34	0.4
	27"	41' - 3"	737	6.9	3' - 11"	37	0.5
	30"	44' - 6"	807	7.7	4' - 4"	39	0.6
	33"	47' - 9"	912	8.9	4' - 8"	44	0.6
	36"	51' - 0"	1,108	11.0	5' - 1"	48	0.8
	42"	57' - 6"	1,318	13.7	5' - 10"	54	1.0
	48"	67' - 0"	1,682	17.9	6' - 7"	59	1.3
	54"	73' - 6"	2,072	21.3	7' - 6"	83	1.6
	60"	80' - 0"	2,351	24.9	8' - 3"	89	1.8
	66"	86' - 6"	2,643	28.9	8' - 9"	96	2.0
	72"	93' - 0"	3,121	33.1	9' - 4"	101	2.3



- ① Total quantities include one 3'-1" lap for bars over 60' in length.
- ② Quantities shown are for concrete pipe and will increase slightly for metal pipe installations.
- ③ Indicated slope is perpendicular to centerline pipe or pipes.
- ④ For vehicle safety, construct curbs no more than 3" above finished grade. Reduce curb heights, if necessary, to meet these requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
- ⑤ Dimensions shown are usual and maximum.
- ⑥ Quantities shown are for one structure end only (one headwall).



<p style="text-align: center;">TABLE OF CONSTANT DIMENSIONS</p>					
<i>Dia of Pipe (D)</i>	<i>G</i>	<i>K</i> (5)	<i>H</i>	<i>T</i>	<i>E</i>
12"	0' - 9"	1' - 0"	2' - 8"	0' - 9"	1' - 9"
15"	0' - 11"	1' - 0"	2' - 11"	0' - 9"	1' - 9"
18"	1' - 2"	1' - 0"	3' - 2"	0' - 9"	1' - 9"
21"	1' - 4"	1' - 0"	3' - 5"	0' - 9"	2' - 0"
24"	1' - 7"	1' - 0"	3' - 8"	0' - 9"	2' - 0"
27"	1' - 8"	1' - 0"	3' - 11"	0' - 9"	2' - 3"
30"	1' - 10"	1' - 0"	4' - 2"	0' - 9"	2' - 3"
33"	1' - 11"	1' - 0"	4' - 5"	0' - 9"	2' - 6"
36"	2' - 1"	1' - 0"	4' - 8"	1' - 0"	2' - 6"
42"	2' - 4"	1' - 0"	5' - 2"	1' - 0"	2' - 9"
48"	2' - 7"	1' - 3"	5' - 11"	1' - 0"	3' - 0"
54"	3' - 0"	1' - 3"	6' - 5"	1' - 0"	3' - 3"
60"	3' - 3"	1' - 3"	6' - 11"	1' - 0"	3' - 6"
66"	3' - 3"	1' - 3"	7' - 5"	1' - 0"	3' - 9"
72"	3' - 4"	1' - 3"	7' - 11"	1' - 0"	4' - 0"

<div> <div>TABLE OF</div> <div>⑥</div> <div>REINFORCING STEEL</div> </div>			
Bar	Size	Spa	No.
A1	#5	~	2
A2	#5	1' - 6"	~
E	#5	~	2
F	#5	1' - 0"	~

MATERIAL NOTES:
Provide Grade 60 reinforcing steel.
Provide Class C concrete ($f'_c = 3,600$ psi).

GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.
Do not mount bridge rails of any type directly to these culvert headwalls.
This standard may not be used for wall heights, H , exceeding the values shown.

Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing dimensions are out-to-out of bars.

 <p>Texas Department of Transportation</p>	<p>Bridge Division Standard</p>			
<h1 style="margin: 0;">CONCRETE HEADWALLS WITH PARALLEL WINGS FOR NON-SKEWED PIPE CULVERTS</h1>				
<h2 style="margin: 0;">CH-PW-0</h2>				
FILE: CD-CH-PW0-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
 TxDOT February 2020 REVISIONS	CONT	SECT	JOB	HIGHWAY
	DIST	COUNTY		SHEET NO.

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED DR

DRAWN BT


CHECKED DR

DATE 3/6/2025

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BAKER & LAWSON, INC.
ENGINEERS • PLANNERS • SURVEYORS
4005 TECHNOLOGY DRIVE, SUITE 1530
ANGLETON, TEXAS 77515 (979) 849-6681
REG. NO. F-825

STATE OF TEXAS
★ ★ ★ ★ ★
DOUGLAS B. ROESLER
56739
LICENSED
PROFESSIONAL ENGINEER

The seal appearing on
this document was
authorized by
Douglas B. Roesler
P.E. 56739

 03-07-2025

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Wayne L. "Sandy" Rea, II
Tejas Viejo Land Company
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PLAN: _____

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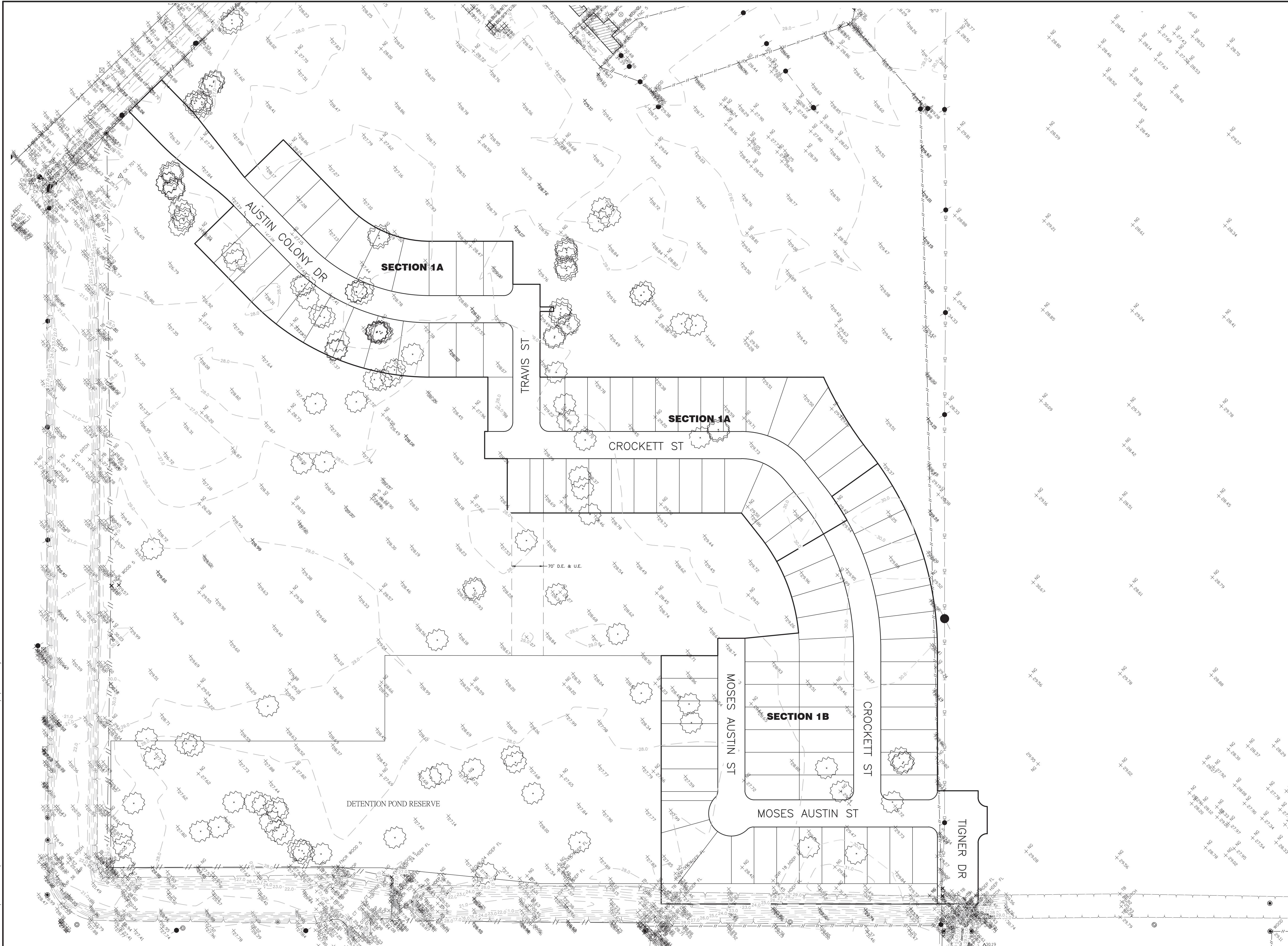
VERTICAL: _____

PROJECT:
Austin Colony Subdivision
Section 1B - 50 Lots
CR 44 (Anchor Road), Angleton TX

CONCRETE HEADWALLS
CH-PW-0

PROJECT NO. 16182

48



BIRCH
BUR OAK
ELM
HACKBERRY
POST OAK
SYCAMORE
CHINESE TALLOW
WATER OAK

HERITAGE TREE
PRESERVATION PLAN

PROJECT NO. 16182

LS-1