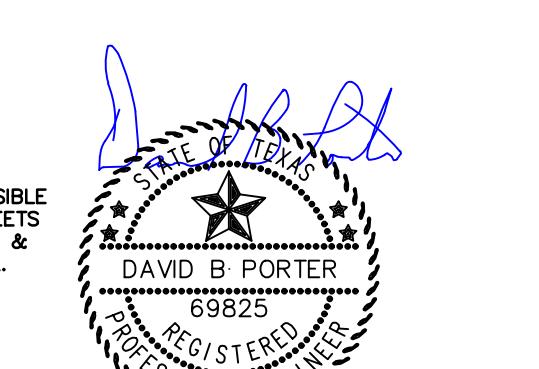




THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRIAN PAUL PATRICK, P.E. 80844 ON JANUARY 18, 2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY DAVID B. PORTER, P.E. 69825 ON JANUARY 18, 2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

REVISION NO. DESCRIPTION DATE

PROJECT NUMBER

**3036.21**

DATE

**01/18/2024**

ISSUE

**ISSUE FOR CONSTRUCTION**

**SUBMITTAL**

**COVER SHEET**

CASE# E2023-042

SHEET NO.

# RAYBURN ELECTRIC COOPERATIVE CAMPUS EXPANSION PHASE 2

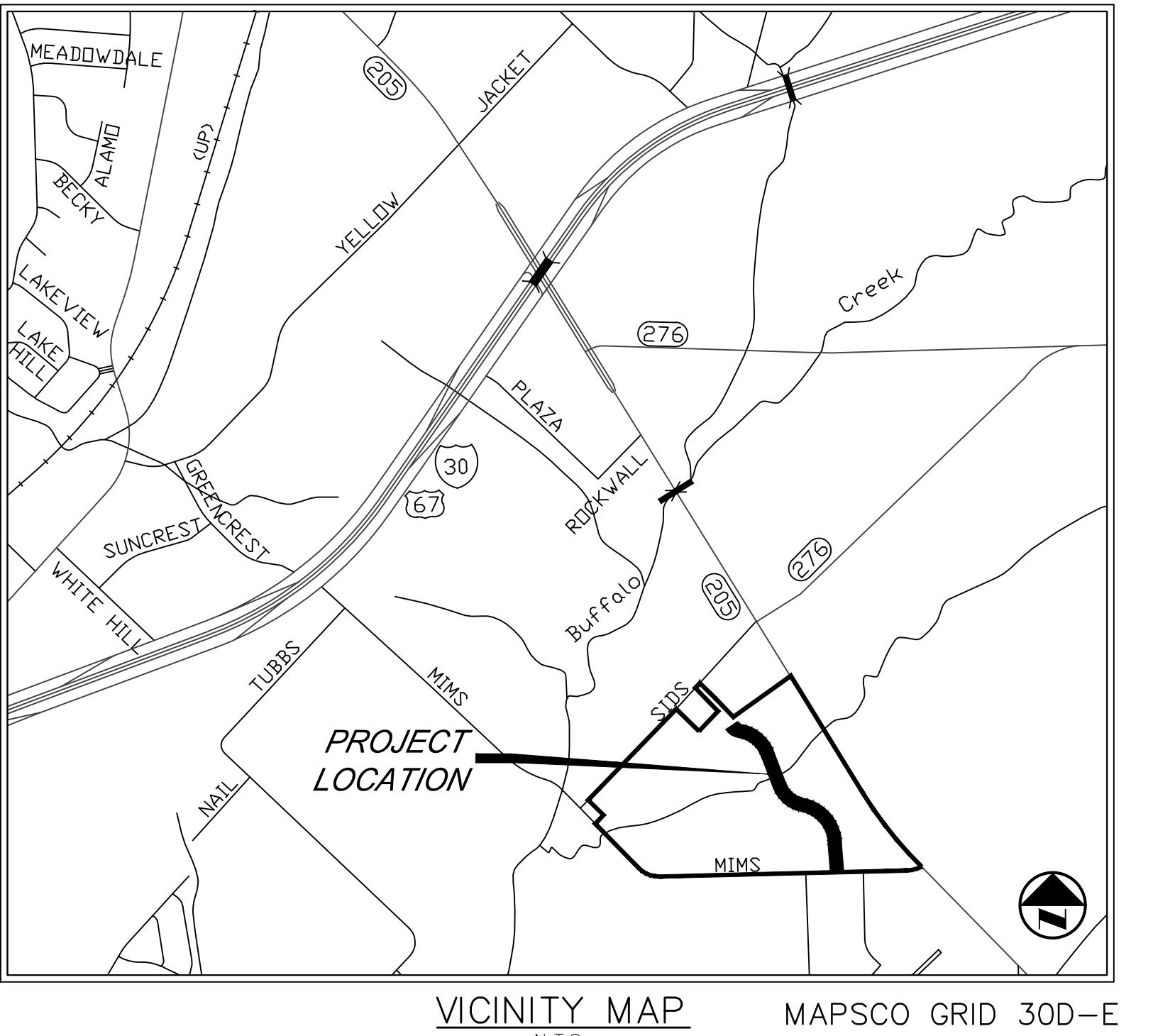
LOT 1, BLOCK A  
REC CAMPUS ADDITION  
950 SIDS ROAD  
ROCKWALL, TEXAS 75032

## INDEX OF SHEETS

SHEET No.	SHEET TITLE
C1-P2	COVER SHEET
PLAT	FINAL PLAT (5 SHEETS)
C1.1-P2	LEGEND, PROJECT CONTROL & NOTES
C1.2-P2	CITY GENERAL CONSTRUCTION NOTES
C1.3-P2	CITY GENERAL CONSTRUCTION NOTES
C2.1-P2	DEMOLITION PLAN
C5.2-P2	ACCESS DR A PAVING PLAN & PROFILE
C5.3-P2	ACCESS DR A PAVING PLAN & PROFILE
C5.4-P2	ACCESS DR A PAVING PLAN & PROFILE
C5.5-P2	ACCESS DR A PAVING PLAN & PROFILE
C5.6-P2	ACCESS DR A CROSS SECTIONS
C5.7-P2	ACCESS DR A CROSS SECTIONS
C5.8-P2	ACCESS DR A CROSS SECTIONS
C5.9-P2	ACCESS DR A CROSS SECTIONS
C5.10-P2	ACCESS DR A CROSS SECTIONS
C8.1-P2	POST PROJECT DRAINAGE AREA MAP
C8.2-P2	POST PROJECT DRAINAGE AREA HYD CALCS
C9.1-P2	CREEK CROSSING PLAN & PROFILE
C9.2-P2	CONSPAN PLAN & ELEVATIONS
C10.1-P2	INLET AND CULVERT CALCULATIONS
C10.2-P2	STM LINE DRIVE A PLAN & PROFILE
C10.3-P2	CULVERT D PLAN & PROFILE
C10.4-P2	RIPRAP LAYOUT & DIMENSIONS
C12.1-P2	SWPPP NARRATIVE 1
C12.2-P2	SWPPP NARRATIVE 2
C12.3-P2	EROSION CONTROL PLAN
C12.4-P2	FINAL STABILIZATION PLAN
C12.5-P2	SWPPP-EROSION & SEDIMENT CONTROL DETAILS
C12.6-P2	SWPPP-HOUSEKEEPING DETAILS
C13.1-P2	TYPICAL PAVING SECTIONS
C13.2-P2	CITY STANDARD DETAILS
C13.3-P2	CITY STANDARD DETAILS
C13.10-P2	DRAINAGE DETAILS

THE FOLLOWING TXDOT STANDARD DETAIL SHEETS HAVE BEEN REVIEWED FOR THEIR APPLICABILITY AND ARE HEREBY AUTHORIZED BY THE ENGINEER FOR USE ON THIS PROJECT:

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK TCP (2-1) - 18  
TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL TCP (2-2) - 18  
PRECAST SAFETY END TREATMENT TYPE II ~ CROSS DRAINAGE PSET-SC  
CONCRETE HEADWALLS WITH FLARED WINGS FOR 0° SKEW PIPE CULVERTS CH-FW-0



LANDSCAPE PLANS (PREPARED BY KIMLEY-HORN AND ASSOCIATES, INC.)  
INDEX OF SHEETS  
SHEET No. SHEET TITLE  
TS 1.01 TREESCAPE PLAN  
TS 1.02 TREESCAPE TABLE

PREPARED BY:

**r.delta**  
E N G I N E E R S

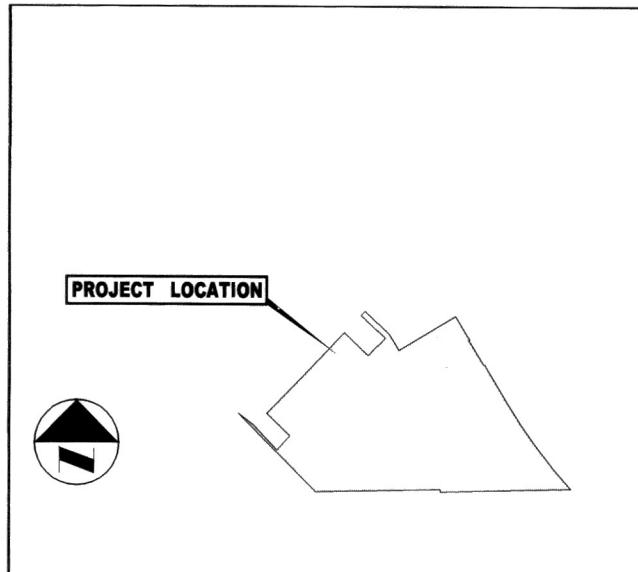
618 MAIN STREET  
GARLAND, TX 75040  
PH. 972 494 5031  
FAX 972 487 2270  
www.rdelta.com  
TBPE REG. F-001515

NOVEMBER 2025

## RECORD DRAWING

NOTE: THIS RECORD DRAWING IS A COMPILATION OF THE ORIGINAL SEALED ENGINEERING DRAWING FOR THIS PROJECT. INFORMATION FURNISHED BY THE CONTRACTOR AND FIELD SURVEY VERIFICATION, TO THE BEST OF OUR KNOWLEDGE R-DELTA ENGINEERS, INC. STATES THAT THIS PLAN IS AS-BUILT.

11/08/2025  
FRANK A. POIMA, P.E. TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM #F-001515



## *VICINITY MAP*

NOT TO SCALE

LINE TABLE			
LINE	BEARING	DISTANCE	
L1	S 46°15'45" E	338.73'	
L2	N 44°02'35" E	247.63'	
L3	N 46°09'17" W	338.69'	
L4	N 44°03'02" E	59.41'	
L5	S 46°15'31" E	338.02'	
L6	S 31°10'16" E	199.44'	
L7	S 58°51'47" W	10.00'	
L8	S 31°08'13" E	297.94'	
L9	N 58°32'10" E	10.00'	
L10	S 89°33'39" W	6.66'	
L11	N 00°38'52" W	24.56'	
L12	N 46°36'51" W	144.18'	
L13	N 44°06'51" E	21.42'	
L14	S 50°58'40" E	197.86'	
L15	S 43°15'37" E	353.17'	
L16	N 42°24'17" E	96.84'	
L17	N 44°27'12" E	99.73'	
L18	N 46°14'22" W	338.24'	

NOTE:  
WATER AND SANITARY SEWER SERVICE  
PROVIDER FOR THIS SITE IS THE CITY  
OF ROCKWALL, TEXAS.

## NOTES

1. Subdivider's Statement. Selling a portion of this addition by metes and bounds is unlawful and a violation of the Subdivision Ordinance of the City of Rockwall and Chapter 212, Municipal Regulation of Subdivisions and Property Development, of the Texas Local Government Code, and shall be subject to the City of Rockwall withholding utilities and building permits.
2. Public Improvement Statement. It shall be the policy of the City of Rockwall to withhold issuing building permits until all streets, water, sewer and storm drainage systems have been accepted by the City. The approval of a subdivision plat by the City does not constitute and representation, assurance or guarantee that any building within such subdivision plat shall be approved, authorized or permit issued, nor shall such approval constitute any representation, assurance or guarantee by the City of Rockwall of the adequacy and availability for water and sanitary sewer for personal use and fire protection within such subdivision plat, as required under the Subdivision Ordinance of the City of Rockwall.
3. Drainage and Detention Easements. Property owner shall be responsible for maintaining, repairing, and replacing and shall bear sole liability of all systems within the drainage and detention easements.
4. Fire Lanes. All Fire Lanes will be constructed, maintained, repaired and replaced by the property owner. Fire Lanes shall be constructed in accordance with the approved Civil Engineering Plans for both on-site and off-site Fire Lane Improvements.
5. *The Bearings and Coordinates reported hereon are based on the Texas Coordinate System of 1983, North Central Zone (Zone 4202) as tied to City of Rockwall published control station COR-11.*

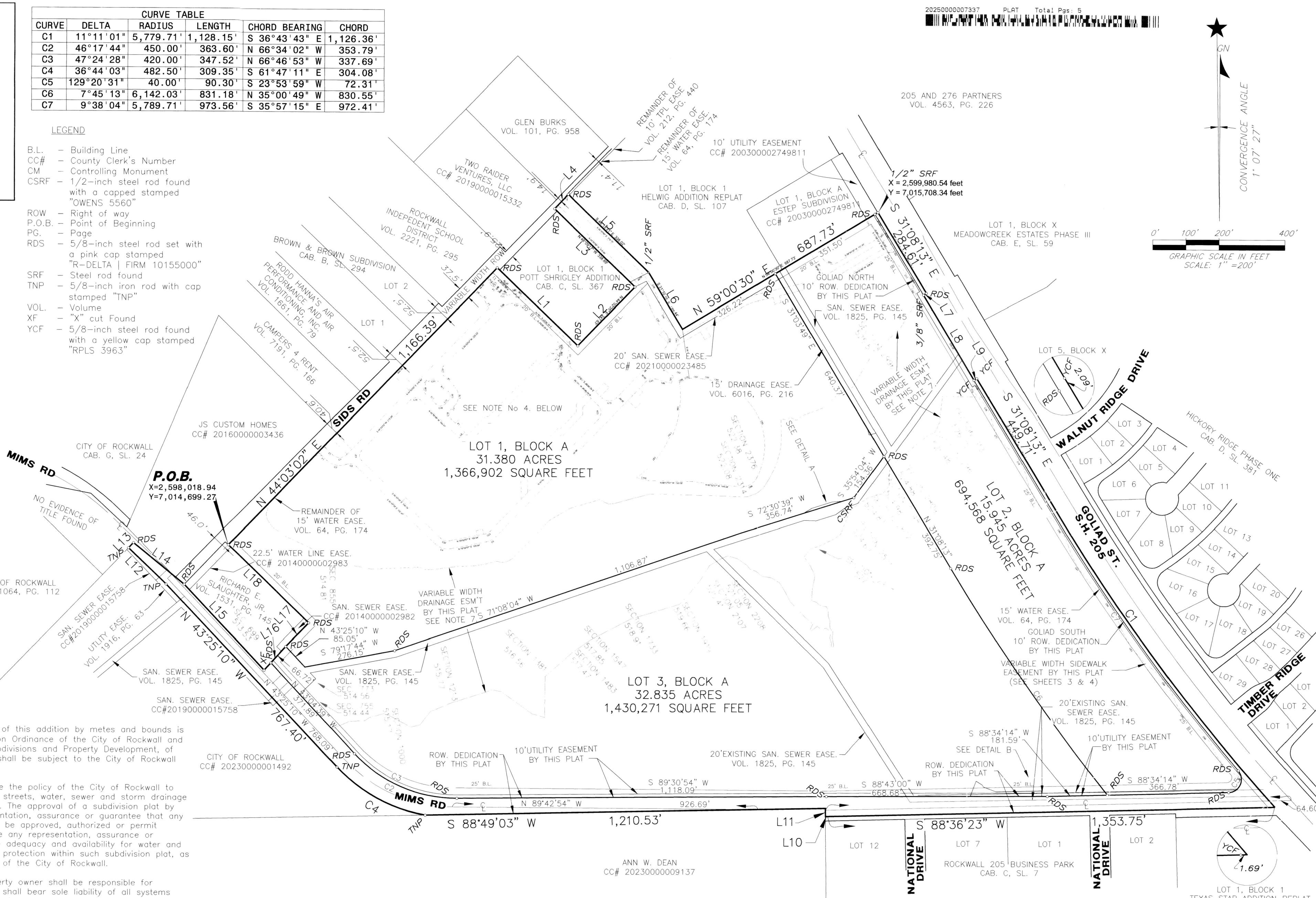
*All reported distances are surface distances. To obtain distances on the projection grid multiply the reported distances by the average combined factor of 0.999853886 as published by TxDOT for Rockwall County, Texas.*

*The convergence or mapping angle at the P.O.B. is 1°07'07"*
6. *See Sheets 2-5 for additional proposed Easement details by this plat.*
7. *A variable width drainage easement being ten feet outside of gradient lines defined by elevations two-feet above the fully developed 100-year flood plain water surface elevation. An approximation of this ambulatory line is graphically depicted here as a guide to the location of the actual boundary of the rights associated with this easement.*

## AREA SUMMARY REPORT

LOT 1	1,366,902	SQ FT	31.380	ACRES
LOT 2	694,568	SQ FT	15.945	ACRES
<u>LOT 3</u>	<u>1,430,271</u>	<u>SQ FT</u>	<u>32.835</u>	<u>ACRES</u>
LOTS	3,491,741	SQ FT	80.160	ACRES
 GOLIAD NORTH	2,846	SQ FT	0.065	ACRES
GOLIAD SOUTH	16,708	SQ FT	0.384	ACRES
<u>MIMS</u>	<u>182,402</u>	<u>SQ FT</u>	<u>4.187</u>	<u>ACRES</u>
DED:	201,956	SQ FT	4.636	ACRES
 PARTS:	3,693,697	SQ FT	84.796	ACRES
BOUNDARY:	3,693,697	SQ FT	84.796	ACRES

Water and sanitary sewer provided by the  
City of Rockwall, Texas.



CAB. F, S

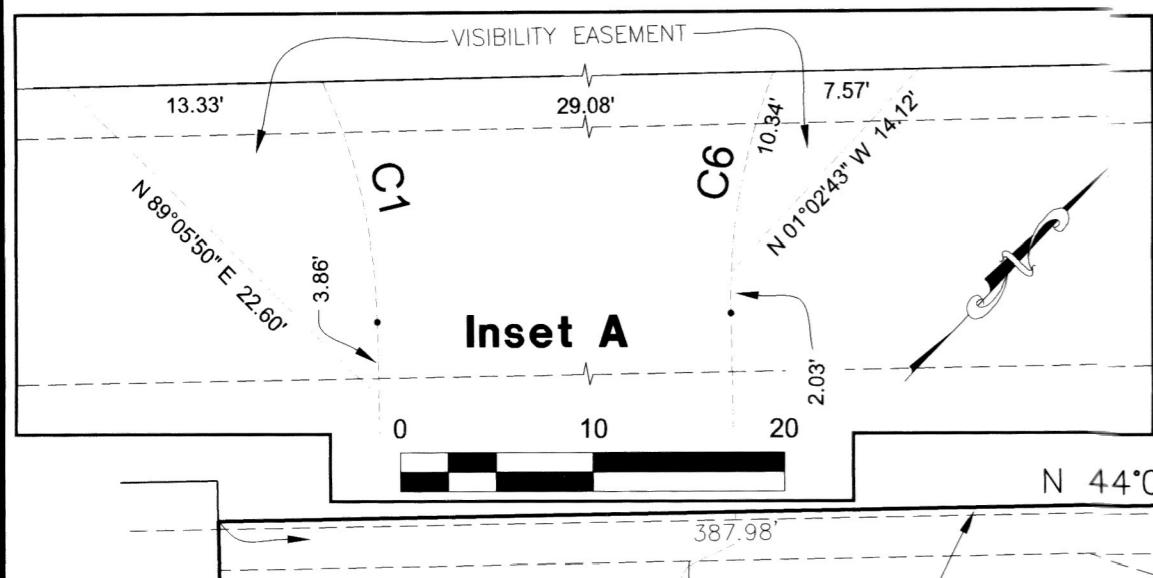
FINAL PLAT  
LOTS 1-3, BLOCK A

**REC CAMPUS  
ADDITION**

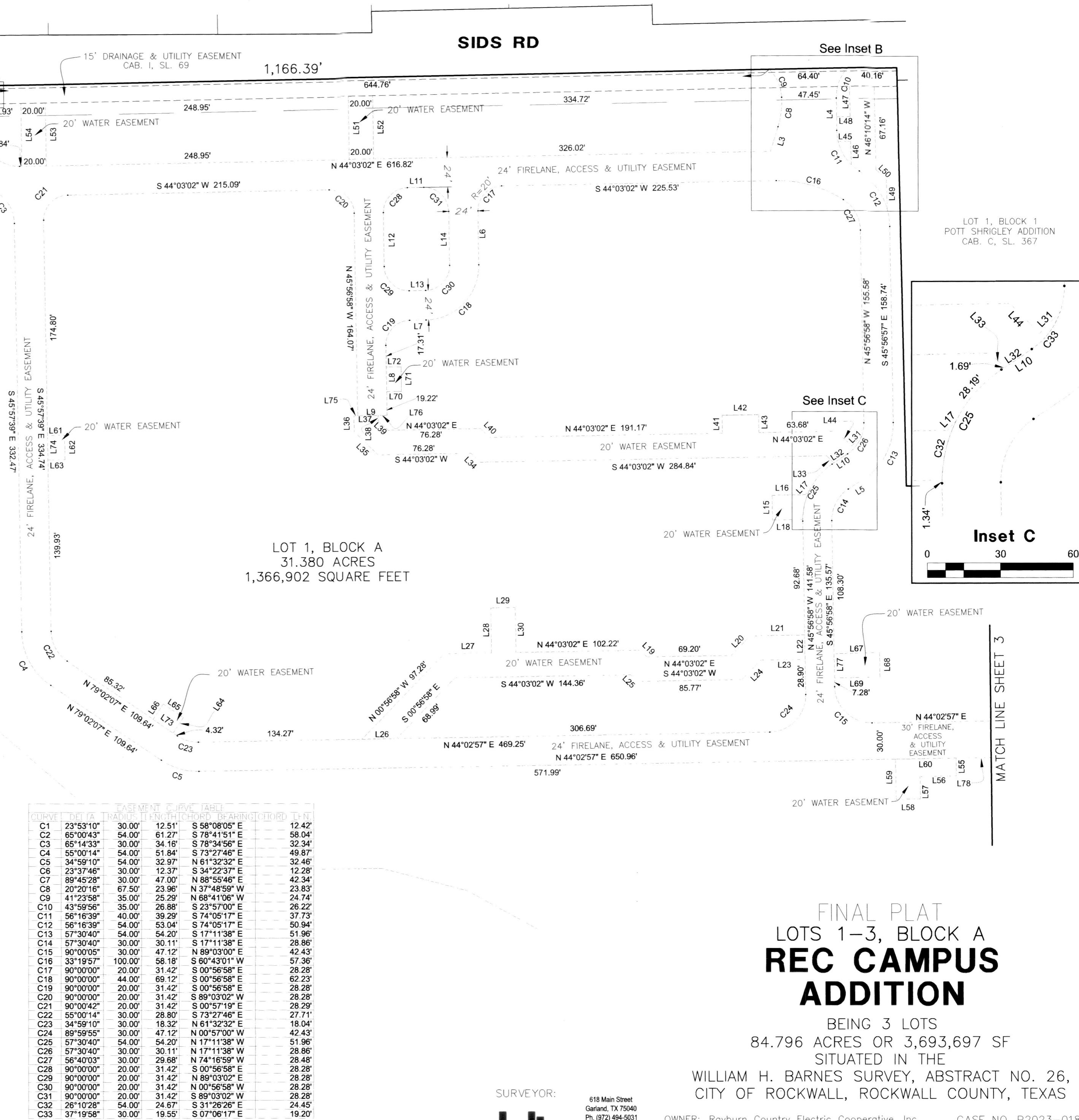
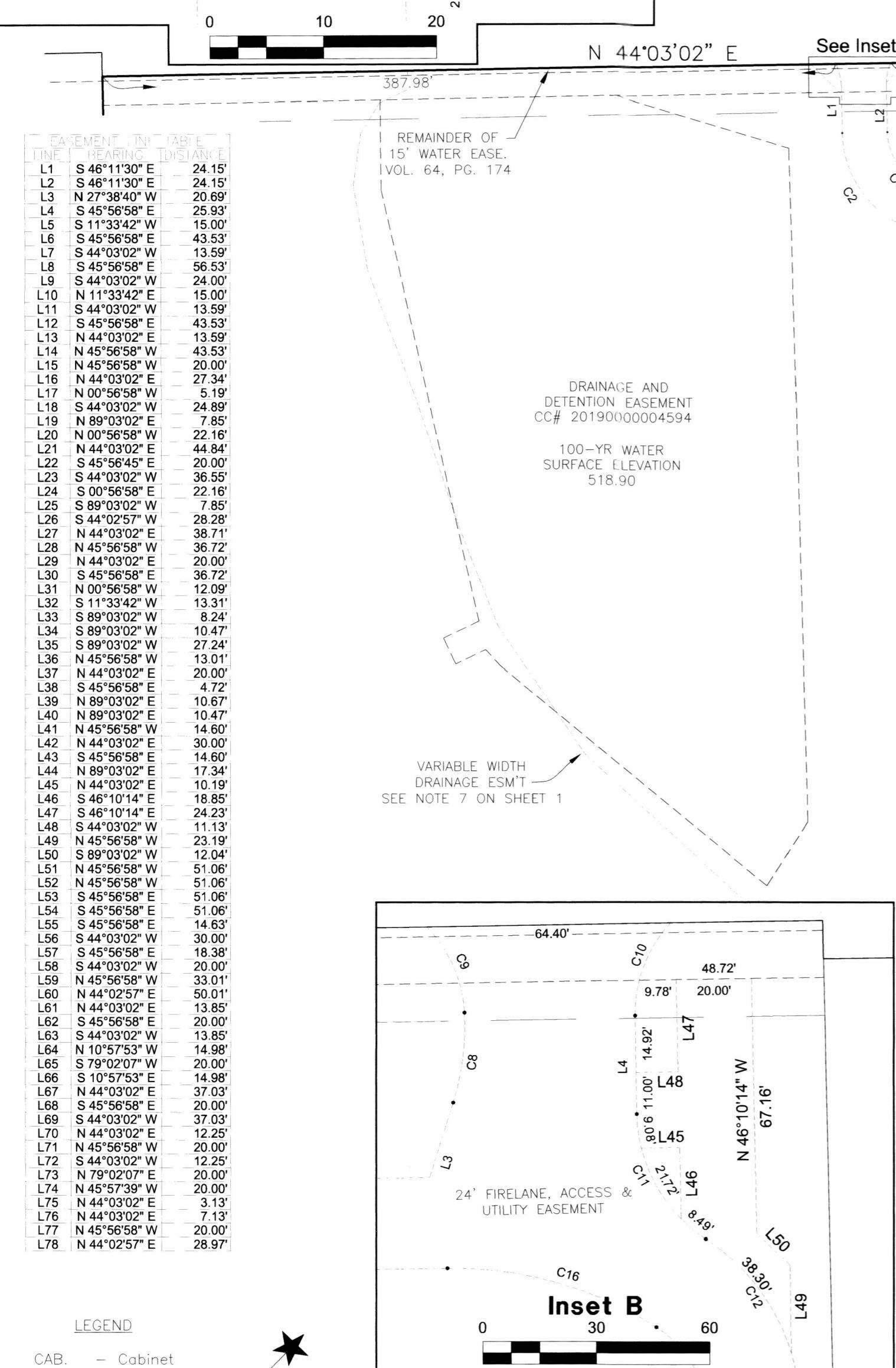
BEING 3 LOTS  
4.796 ACRES OR 3,693,697 SF  
SITUATED IN THE

SITUATED IN THE  
WILLIAM H. BARNES SURVEY, ABSTRACT NO. 26,  
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS  
Rayburn Country Electric Cooperative, Inc. CASE NO. P2023-018  
950 Sids Road RDE Proj. No. 3036-22  
Rockwall, Texas 75032  
TEL (469) 402-2100 SHEET 1 OF 5

**r.delta**  
E N G I N E E R S



## **EASEMENT DEDICATIONS BY THIS PLAT**



FINAL PLAT  
LOTS 1-3, BLOCK A  
**REC CAMPUS  
ADDITION**

BEING 3 LOTS  
84.796 ACRES OR 3,693,697 SF

SITUATED IN THE  
WILLIAM H. BARNES SURVEY, ABSTRACT NO. 26,  
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

OWNER: Rayburn Country Electric Cooperative, Inc.  
950 Sids Road  
Rockwall, Texas 75032  
TEL (469) 402-2100

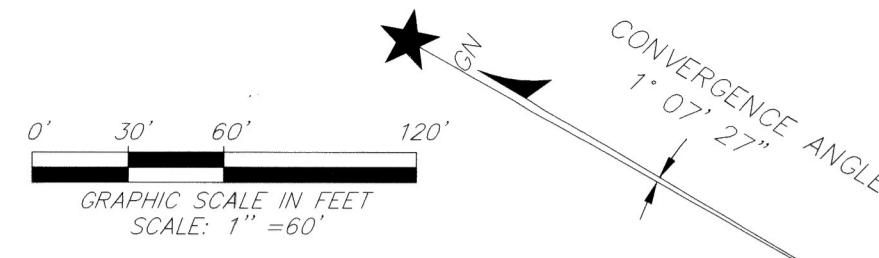
CASE NO. P2023-018  
RDE Proj. No. 3036-22

SHEET 2 OF 5

**r.delta**  
E N G I N E E R S

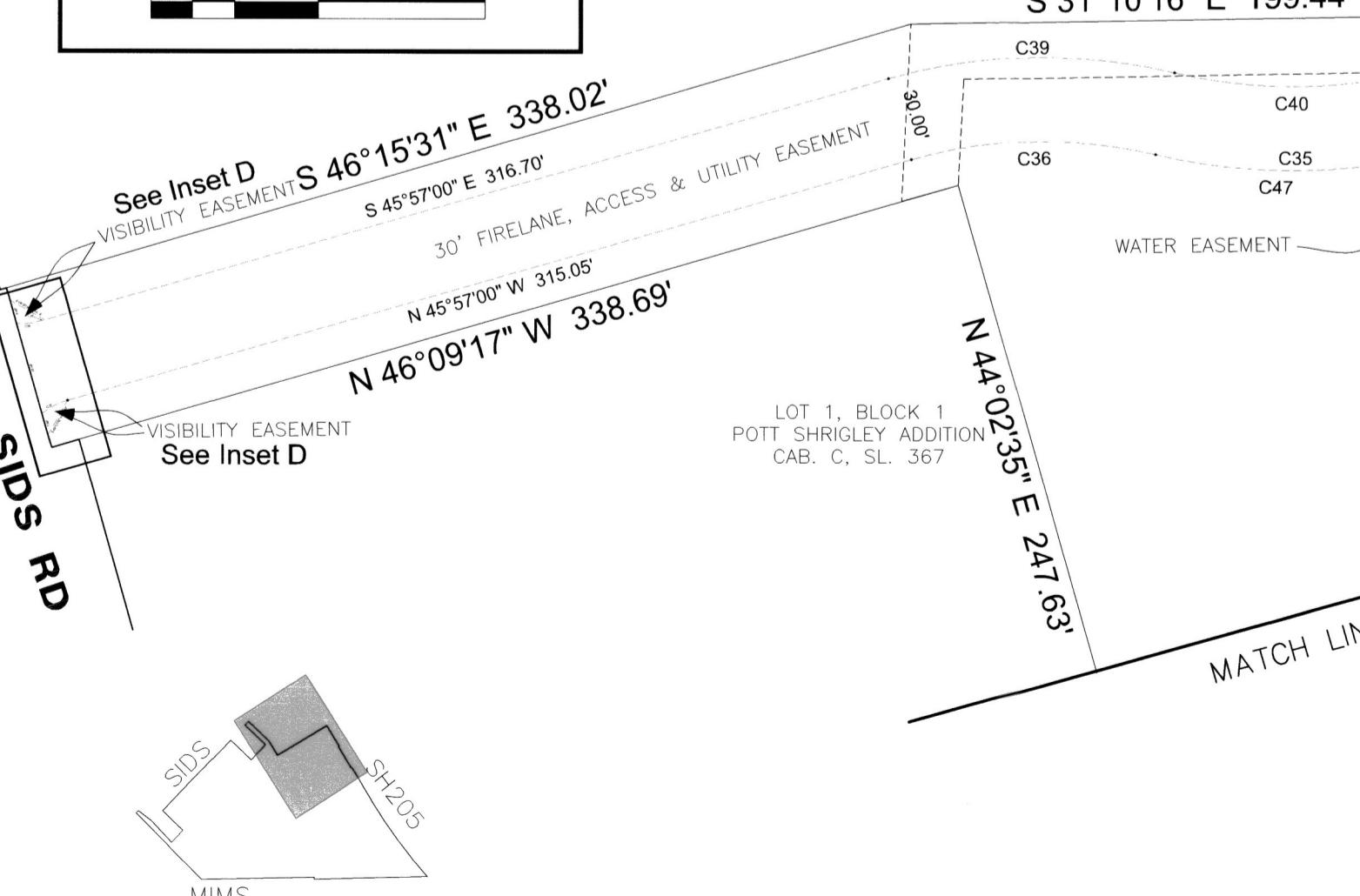
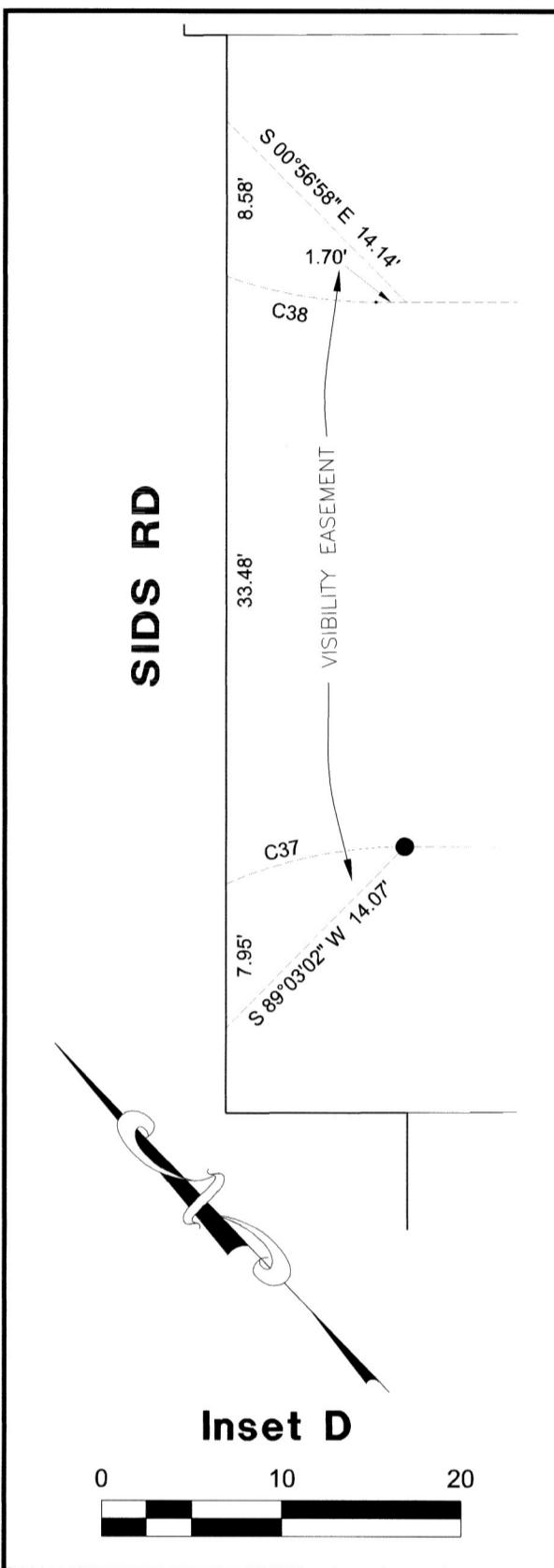
CURVE	DELTA	EASEMENT CURVE TABLE			
		RADIUS	LENGTH	CHORD	BEARING
C1	23°53'10"	30.00'	12.51'	S 58°08'05" E	12.4
C2	65°00'43"	54.00'	61.27'	S 78°41'51" E	58.0
C3	65°14'33"	30.00'	34.16'	S 78°34'56" E	32.3
C4	55°00'14"	54.00'	51.84'	S 73°27'46" E	49.8
C5	34°59'10"	54.00'	32.97'	N 61°32'32" E	32.4
C6	23°37'46"	30.00'	12.37'	S 34°22'37" E	12.2
C7	89°45'28"	30.00'	47.00'	N 88°55'46" E	42.3
C8	20°20'16"	67.50'	23.96'	N 37°48'59" W	23.8
C9	41°23'58"	35.00'	25.29'	N 68°41'06" W	24.7
C10	43°59'56"	35.00'	26.88'	S 23°57'00" E	26.2
C11	56°16'39"	40.00'	39.29'	S 74°05'17" E	37.7
C12	56°16'39"	54.00'	53.04'	S 74°05'17" E	50.9
C13	57°30'40"	54.00'	54.20'	S 17°11'38" E	51.9
C14	57°30'40"	30.00'	30.11'	S 17°11'38" E	28.8
C15	90°00'05"	30.00'	47.12'	N 89°03'00" E	42.4
C16	33°19'57"	100.00'	58.18'	S 60°43'01" W	57.3
C17	90°00'00"	20.00'	31.42'	S 00°56'58" E	28.2
C18	90°00'00"	44.00'	69.12'	S 00°56'58" E	62.2
C19	90°00'00"	20.00'	31.42'	S 00°56'58" E	28.2
C20	90°00'00"	20.00'	31.42'	S 89°03'02" W	28.2
C21	90°00'42"	20.00'	31.42'	S 00°57'19" E	28.2
C22	55°00'14"	30.00'	28.80'	S 73°27'46" E	27.7
C23	34°59'10"	30.00'	18.32'	N 61°32'32" E	18.0
C24	89°59'55"	30.00'	47.12'	N 00°57'00" W	42.4
C25	57°30'40"	54.00'	54.20'	N 17°11'38" W	51.9
C26	57°30'40"	30.00'	30.11'	N 17°11'38" W	28.8
C27	56°40'03"	30.00'	29.68'	N 74°16'59" W	28.4
C28	90°00'00"	20.00'	31.42'	S 00°56'58" E	28.2
C29	90°00'00"	20.00'	31.42'	N 89°03'02" E	28.2
C30	90°00'00"	20.00'	31.42'	N 00°56'58" W	28.2
C31	90°00'00"	20.00'	31.42'	S 89°03'02" W	28.2
C32	26°10'28"	54.00'	24.67'	S 31°26'26" E	24.4
C33	27°40'58"	30.00'	10.55'	S 07°06'11" E	10.2

## GOLIAD ST. S.H. 205



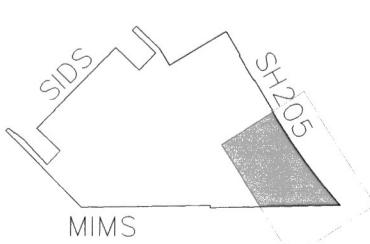
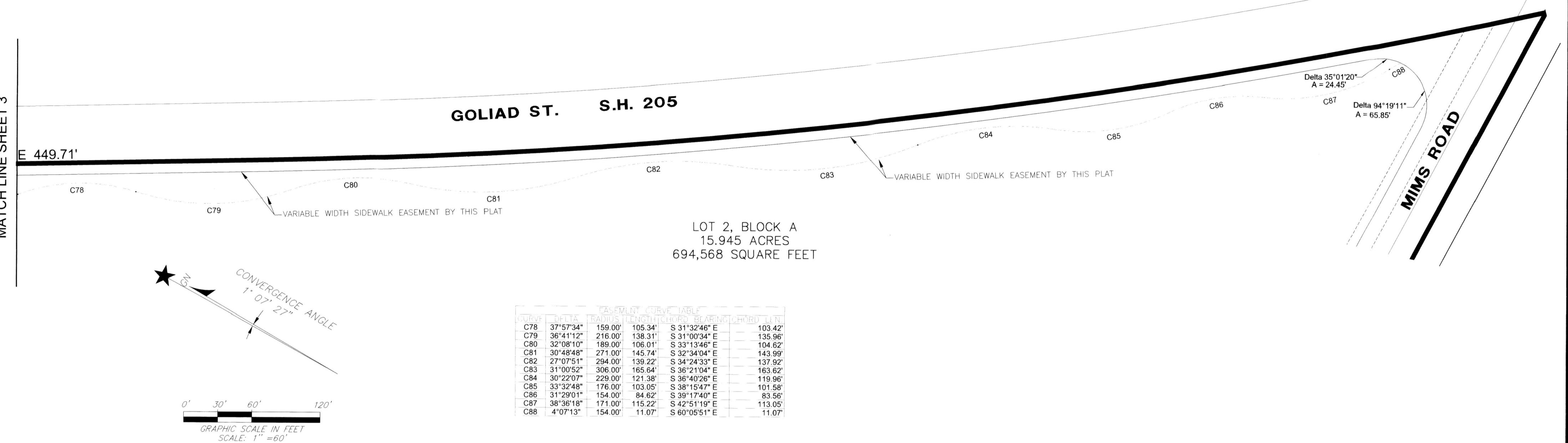
## LEGEND

CC# — County Clerk's Number  
CM — Controlling Monument  
ROW — Right of way  
POB — Point of Beginning  
PG. — Page  
SRF — Steel rod found  
VOL. — Volume  
XF — "X" cut Found



# EASEMENT DEDICATIONS BY THIS PLAT

MATCH LINE SHEET 3



## FINAL PLAT LOTS 1-3, BLOCK A **REC CAMPUS ADDITION**

BEING 3 LOTS  
84.796 ACRES OR 3,693,697 SF  
SITUATED IN THE

WILLIAM H. BARNES SURVEY, ABSTRACT NO. 26,  
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

SURVEYOR:  
**r.delta**  
ENGINEERS

618 Main Street  
Garland, TX 75040  
Ph. (972) 494-5031  
Fax (972) 487-2270  
[www.rdelta.com](http://www.rdelta.com)  
TBPLS No. F-1515  
TBPLS No. 10155000

OWNER: Rayburn County Electric Cooperative, Inc.  
950 Sids Road  
Rockwall, Texas 75032  
TEL (469) 402-2100

CASE NO. P2023-018  
RDE Proj. No. 3036-22  
SHEET 4 OF 5

## OWNER'S CERTIFICATE

STATE OF TEXAS  
§  
COUNTY OF ROCKWALL §

WHEREAS RAYBURN COUNTRY ELECTRIC COOPERATIVE, INC., being the owner of a tract of land in the County of Rockwall, State of Texas, said tract being a 84.796-acre tract of land situated within the City of Rockwall in the William N. Barnes Survey, Abstract No. 26 comprised of:  
 • Lot 6 and Lot 7, Block A, of the Replat of Rayburn Country Addition, Lots 4-7, Block A, according to the plat thereof recorded in Cabinet J, on Slide 342 of the Plat Records of Rockwall County, Texas (OPRRC) and also filed as Document Number 2018000008589 of the Official Public Records of Rockwall County, Texas (OPRRC)  
 • Lot 8 and Lot 9, Block A, of the Replat of Rayburn Country Addition, Lot 8 and 9, Block A, according to the plat thereof recorded as Document Number 2019000004594 OPRRC  
 • The remainder of a called 63.708-acre tract of land described in the deed dated the 13th day of September, 2021, from Peggy's Folly, LP to Rayburn Country Electric Cooperative, Inc. (RCEC) and recorded as Document Number 2021000024965 OPRRC

And being more particularly described as follows:

BEGINNING at a 5/8-inch steel rod set with a pink plastic cap stamped "R-DELTA | FIRM 10155000" (hereafter RDS) to replace a called 5/8-inch iron rod with a yellow cap stamped "RPLS 3963" which has been destroyed, marking the west corner of Lot 9, Block A of the above referenced Rayburn Country Addition, said RDS being in the northeast boundary line of a 1.50-acre tract of land described in the deed to Richard E. Slaughter, Jr. as recorded in Volume 1531, at Page 145 of the DRRCT and being on the southeasterly right-of-way line of Sids Road as dedicated to the City of Rockwall on the Final Plat of Rayburn Country Addition, Lots 1-3, Block A, according to the plat thereof recorded in Cabinet I, on Slide 169 PRRCT and also filed as Document Number 20140000011313 OPRRC, and having coordinates of:  
 X = 2,598,018.94 feet,  
 Y = 7,014,699.27 feet;

THENCE N 44°03'02" E with the southeast right-of-way line of Sids Road (a variable width right-of-way) for a distance of 1,166.39 feet to a RDS in the southwest line of Lot 1, Block 1 of Pott Shrigley Addition, an addition to the City of Rockwall according to the plat thereof for the north corner of Lot 4, Block A of the above referenced Rayburn Country Addition, Lots 4-7, Block A;

THENCE with the perimeter of the last mentioned Lot 1, Block 1 of Pott Shrigley Addition, the following three (3) courses and distances:

S 46°15'45" E for a distance of 338.73 feet to a RDS;  
 N 44°02'35" E for a distance of 247.63 feet to a RDS;  
 N 46°09'17" W for a distance of 338.69 feet to a RDS for a west corner of Lot 6, Block A and being on the southeast right-of-way line of Sids Road as dedicated on the aforementioned Replat of Rayburn Country Addition, Lots 4-7, Block A;

THENCE N 44°03'02" E with the southeast right-of-way line of Sids Road for a distance of 59.41 feet to a RDS in the southwest line of Lot 1, Block 1, of Helwig Addition Replat, according to the plat thereof recorded in Cabinet D, on Slide 107 of the PRRCT;

THENCE with the perimeter of said Lot 1, Block 1, of Helwig Addition, the following three courses and distances:

1.S 46°15'31" E for a distance of 338.02 feet to a 1/2-inch steel rod found;  
 2.S 31°10'16" E for a distance of 199.44 feet to a RDS;  
 3.N 59°00'30" E at a distance of 350.31 feet pass the east corner of said Lot 1, Block 1, of Helwig Addition, to a point in a rock fence pillar for the south corner of Lot 1, Block "A", Estep Subdivision, an addition to the city of Rockwall, Texas, according to the plat thereof recorded in Cabinet E, on Slide 273 of the PRRCT, and continue on the same course with the southeast line of said Lot 1, Block "A", Estep Subdivision an additional distance of 337.42 feet for a total distance of 687.73 feet to a 1/2-inch steel rod found at the east corner of said Lot 1, Block "A", Estep Subdivision in the southwesterly right-of-way line of State Highway (SH) No. 205 (a/k/a Goliad Street) as described in the RIGHT OF WAY DEED dated the 3rd day of October, 1935, from A. L. Moody, the State of Texas filed in Volume 517, at Page 205 of the Deed Records of Rockwall County, Texas (DRRCT);

THENCE S 31°08'13" E 284.61 feet to a RDS;

THENCE S 58°51'47" W continuing with the southwesterly right-of-way line of SH No. 205 for a distance of 10.00 feet to a 3/8-inch steel rod found;

THENCE S 31°08'13" E continuing with the southwesterly right-of-way line of SH No. 205 at a distance of 205.57 feet pass a 5/8-inch steel rod with a yellow plastic cap found marked "RPLS 3963" marking the east corner of Lot 7, Block A of the aforementioned Replat of Rayburn Country Addition, Lots 4-7, Block A, and continuing on the same course with the southwesterly right-of-way line of SH No. 205 for an additional distance of 92.37 feet to for a total distance of 297.94 feet to a 5/8-inch steel rod with a yellow plastic cap marked "RPLS 3963";

THENCE N 58°32'10" E continuing with the southwesterly right-of-way line of SH No. 205 for a distance of 10.00 to a 5/8-inch steel rod with a yellow plastic cap marked "RPLS 3963";

THENCE S 31°08'13" E continuing with the southwesterly right-of-way line of SH No. 205 at a distance of 447.62 feet pass a 5/8-inch steel rod with a yellow plastic cap marked "RPLS 3963", and continue on the same course an additional distance of 2.09 feet for a total distance of 449.71 feet to the point of curvature (hereafter P.C.) of a curve to the left having a radius of 5,779.71 feet, a central angle of 11°11'01" and a chord that bears S 36°43'43" E for a distance of 1,126.36 feet;

THENCE in a southeasterly direction with the arc of said curve for a distance of 1,128.15 feet to a point on the south margin of Sids Road (a variable width right-of-way) marking the east corner of the aforementioned 63.708-acre tract of land to RCEC;

THENCE S 88°36'23" W along and within Mims Road and with the south line of the said 63.708-acre tract of land to RCEC at a distance of 1.69 feet pass a 5/8-inch steel rod with a yellow plastic cap marked "RPLS 3963" found and continue on the same course an additional distance of 1,352.06 feet for a total distance of 1,353.75 feet;

THENCE S 89°33'39" W continuing in the southerly margin of Mims Road and with the south line of the said 63.708-acre tract of land to RCEC for a distance of 6.66 feet to the point where said line intersects the east line a 141.3576-acre tract of land designated as Tract 3 in the deed dated November 21, 2000, from Victor Manson Wallace to VICMAR I, LTD. recorded in Volume 2016, at Page 200 of the DRRCT;

THENCE N 00°38'52" W with the east line of said VICMAR I, LTD. tract for a distance of 24.56 feet to the northeast corner thereof;

THENCE S 88°49'03" W along a line in the southerly margin of Mims Road for a distance of 1,210.53 feet to a 5/8-inch steel rod found with a cap stamped "TNP" (hereafter TNP) for the most easterly corner of a 15.053-acre tract of land described in the deed dated the 2nd day of February, 2003, from Rayburn Country Electric Cooperative, Inc. to The City of Rockwall as recorded in Instrument No. 20230000001492 in the OPRRC, said TNP marking the beginning of a curve concave to the northeast, having a radius of 482.50 feet, a central angle of 36°44'03" and a chord that bears N 61°47'11" W for a distance of 304.08 feet;

THENCE in a northwesterly direction with said 15.053-acre tract and the arc of said curve 309.35 feet to a TNP set for the point of tangency of said curve;

THENCE N 43°25'10" W with said 15.053-acre tract for a distance of 767.40 feet to a TNP set;

THENCE N 46°36'51" W with said 15.053-acre tract for a distance of 144.18 feet to a TNP set on the accepted southeasterly line of a tract of land described in the deed dated June 28, 1995, from Raymond B. Cameron and wife, Elizabeth R. Cameron to the City of Rockwall recorded in Volume 1064, at Page 112 of the DRRCT;

THENCE N 44°06'51" E for a distance of 21.42 feet;

THENCE S 50°58'40" E for a distance of 197.86 feet to a point on the southwesterly line of a 1.50-acre tract of land described in the deed dated the 22nd day of December, 1998, from Edrich Development to Richard E. Slaughter, Jr. recorded in Volume 1531, at Page 145 of the DRRCT;

THENCE with the perimeter of the 1.5-acre tract to Richard E. Slaughter the following three (3) courses and distances:  
 1.S 43°15'37" E for a distance of 353.17 feet to an "X" found for its south corner;  
 2.N 42°24'17" E for a distance of 96.84 feet to a RDS for the west corner of the aforementioned Lot 9, Block A of the Replat of Rayburn Country Addition, Lots 8 and 9;  
 3.N 44°27'12" E for a distance of 99.73 feet to a RDS for the east corner of said Slaughter tract;

THENCE N 46°14'22" W continuing with the northeasterly line of the 1.5-acre tract to Richard E. Slaughter for a distance of 338.24 feet to the POINT OF BEGINNING and containing 3,693,697 square feet or 84.796 acres of land.

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

STATE OF TEXAS §  
§  
COUNTY OF ROCKWALL §

I, the undersigned owner of the land shown on this plat, and designated herein as the REC CAMPUS ADDITION, an addition to the City of Rockwall, Texas, and whose name is subscribed hereto, hereby dedicate to the use of the public forever all streets, alleys, parks, water courses, drains, easements and public places thereon shown on the purpose and consideration therein expressed. I further certify that all other parties who have a mortgage or lien interest in the REC CAMPUS ADDITION, an addition to the City of Rockwall, Texas, have been notified and signed this plat. I understand and do hereby reserve the easement strips shown on this plat for the purposes stated and for the mutual use and accommodation of all utilities desiring to use or using same. I also understand the following:

1. No buildings shall be constructed or placed upon, over, or across the off-site and on-site utility easements as described herein.

2. Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements which in any way endanger or interfere with construction, maintenance or efficiency to their respective system on any of these easement strips; any and all public utility shall at all times have the right of ingress or egress to, from and upon the said easement strips for purpose of construction, reconstruction, inspecting, patrolling, maintaining, and adding to or removing all or part of their respective system without the necessity of, at any time, procuring the permission of anyone.

3. The City of Rockwall will not be responsible for any claims of any nature resulting from or occasioned by the establishment of grade of streets in the subdivision.

4. The developer/property owner and subdivision engineer shall bear total responsibility for storm drain improvements.

5. The developer/property owner shall be responsible for the necessary facilities to provide drainage patterns and drainage controls such that properties within the drainage area are not adversely affected by storm drainage from the development. The property owner shall be responsible for maintenance of detention ponds and easements.

6. No house dwelling unit, or other structure shall be constructed on any lot in this addition by the owner or any other person until the developer and/or owner has complied with all requirements of the Subdivision Regulations of the City of Rockwall regarding improvements with respect to the entire block on the street or streets on which property abuts, including the actual installation of streets with the required base and paving, curb and gutter, water and sewer, drainage structures, storm structures, storm sewers, and alleys, all according to the specifications of the City of Rockwall; or

Until an escrow deposit, sufficient to pay for the cost of such improvements, as determined by the city's engineer and/or city administrator, computed on a private commercial rate basis, has been made with the city secretary, accompanied by an agreement signed by the developer and/or owner, authorizing the city to make such improvements at prevailing private commercial rates, or have the same made by a contractor and pay for the same out of the escrow deposit, should the developer and/or owner fail or refuse to install the required improvements within the time stated in such written agreement, but in no case shall the City be obligated to make such improvements itself. Such deposit may be used by the owner and/or developer as progress payments as the work progresses in making such improvements by making certified requisitions to the city secretary, supported by evidence of work done; or

Until the developer and/or owner files a corporate surety bond with the city secretary in a sum equal to the cost of such improvements for the designated area, guaranteeing the installation thereof within the time stated in the bond, which time shall be fixed by the city council of the City of Rockwall.

I further acknowledge that the dedications and/or exactions made herein are proportional to the impact of the Subdivision upon the public services required in order that the development will comport with the present and future growth needs of the City; I, my successors and assigns hereby waive any claim, damage, or cause of action that I may have as a result of the dedication of exactions made herein.

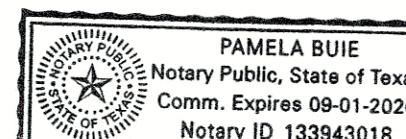
Rayburn Country Electric Cooperative, Inc.  
Stephen Geiger,

STATE OF TEXAS §  
§  
COUNTY OF ROCKWALL §

Before me, the undersigned authority, on this day personally appeared Stephen Geiger, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and consideration therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 25 day of

March, 2025.  
PAMELA BUIE



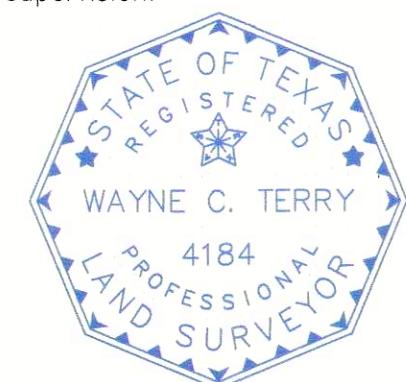
My commission expires: 9-1-26

SURVEYOR'S CERTIFICATE

STATE OF TEXAS §  
§  
COUNTY OF DALLAS §

THAT I, Wayne C. Terry, 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 personal supervision.

Wayne C. Terry  
Registered Professional Land Surveyor  
Registration No. 4184



STATE OF TEXAS §  
§  
COUNTY OF DALLAS §

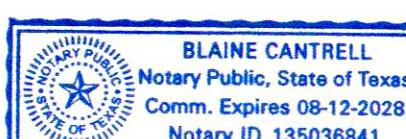
Before me, the undersigned authority, on this day personally appeared Wayne C. Terry, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purpose and consideration therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 25 day of

March

, 2025.

Blaine Cantrell, Blaine Cantrell  
Notary Public for and in the State of Texas



APPROVED:

I hereby certify that the above and foregoing subdivision plat being an addition to the City of Rockwall, Texas, was approved by the City Council of the City of Rockwall, Texas on the 17 day of 2024, 2024.

John Rodway  
Mayor of the City of Rockwall

John Rodway  
Planning and Zoning Commission Chairman

Christy Teague  
City Secretary

Chris Williams, P.E.  
City Engineer

THE STATE OF TEXAS  
COUNTY OF ROCKWALL  
I hereby certify that this instrument was FILED on the date and time stamped hereon and was duly RECORDED in the Records of Rockwall County, Texas  
04/29/2025 11:00:34 AM PLAT Total Fees: \$245.00  
202500000007337  
Rockwall County Clerk  
Jennifer Fogg

# FINAL PLAT LOTS 1-3, BLOCK A REC CAMPUS ADDITION

BEING 3 LOTS  
84.796 ACRES OR 3,693,697 SF  
SITUATED IN THE

WILLIAM H. BARNES SURVEY, ABSTRACT NO. 26,  
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

SURVEYOR:  
618 Main Street  
Garland, TX 75040  
Ph. (972) 494-5031  
Fax (972) 487-2270  
www.rdelta.com  
TBPLS No. 10155000  
TEL (469) 402-2100

OWNER: Rayburn Country Electric Cooperative, Inc.  
950 Sids Road  
Rockwall, Texas 75032  
TEL (469) 402-2100

CASE NO. P2023-018  
RDE Proj. No. 3036-22

SHEET 5 OF 5

RO145

## PROJECT CONTROL

**RC104**  
MAG NAIL IN THE ASPHALT PAVEMENT OF SIDS ROAD APPROXIMATELY FOUR FEET NORTHWEST OF THE NORTH CORNER OF THE NORTHERLY DRIVE APPROACH TO THE RAYBURN HEADQUARTERS FACILITY  
X = 2,598,820.82 FEET  
Y = 7,015,546.06 FEET  
ELEV. = 539.83 FEET

**RC213**  
X SET ON THE EAST CORNER OF A CURB INLET ON THE SOUTHEASTERLY SECTION OF THE LOOP ROAD AROUND THE RAYBURN HEADQUARTERS FACILITY AND NORTH OF THE DUMPSTER ENCLOSURE AND BEING S. 71-1/4° W, APPROXIMATELY 96 FEET FROM THE EAST CORNER OF EXISTING BUILDING C X = 2,598,978.97 FEET  
Y = 7,014,980.81 FEET  
ELEV. = 531.48 FEET

**RC216**  
60D NAIL ON THE WESTERLY EDGE OF A DRIVEWAY CURVE APPROXIMATELY 43 FEET SOUTHWEST OF THE NORTHEASTERLY PERIMETER FENCE AND APPROXIMATELY SOUTH 80-1/2° EAST OF THE EAST CORNER OF AN ENCLOSURE FENCE ON THE EAST SIDE OF THE NORTHERLY BUILDING COMPLEX AND FROM WHICH THE SOUTH STEEL FENCE CORNER OF THE ENCLOSURE FENCE IS S. 76-1/4° E, APPROXIMATELY 88 FEET X = 2,598,988.99 FEET  
Y = 7,015,324.45 FEET  
ELEV. = 542.36 FEET

**RC320**  
X SET ON A CONCRETE HEADWALL ON THE SOUTHWESTERLY SIDE OF S. GOLIAD STREET (STATE HIGHWAY NO. 205) APPROXIMATELY 700 FEET SOUTHEAST OF ITS INTERSECTION WITH SIDS ROAD AND A STONE FENCE CORNER POST FOR A WROUGHT IRON FENCE BEARS S. 13° E, APPROXIMATELY 65 FEET X = 2,599,965.94 FEET  
Y = 7,015,763.88 FEET  
ELEV. = 542.36 FEET

**RC403**  
X SET ON THE WEST CORNER OF THE TOP OF THE FIRST Y-INLET NORTHEAST OF THE MAIN ENTRANCE TO THE RAYBURN CAMPUS ON THE SOUTHEASTERLY SIDE OF SIDS ROAD APPROXIMATELY TWENTY-FIVE FEET NORTHWEST OF THE RAYBURN WROUGHT IRON PERIMETER FENCE AT A POINT THAT IS APPROXIMATELY 1,490 FEET SOUTHWEST OF THE INTERSECTION OF SIDS ROAD WITH S. GOLIAD STREET (STATE HIGHWAY NO. 205) AND MEASURING S. 77° W, APPROXIMATELY 49' FROM THE NORTH CORNER OF RAYBURN WROUGHT IRON PERIMETER FENCE X = 2,598,555.01 FEET  
Y = 7,015,261.82 FEET  
ELEV. = 533.15 FEET

**RC405**  
X SET ON THE WEST CORNER OF A HEADWALL FOR A CULVERT SITUATED APPROXIMATELY 35 FEET SOUTHWEST OF THE SOUTHWEST ENTRANCE TO THE RAYBURN HEADQUARTERS CAMPUS AND IN THE OPEN DITCH ON THE SOUTHEASTERLY SIDE OF SIDS ROAD APPROXIMATELY 1,920 FEET SOUTHWEST OF THE INTERSECTION OF SIDS ROAD WITH S. GOLIAD STREET (STATE HIGHWAY NO. 205) AND N. 44-1/4° E, AT APPROXIMATELY 347 FEET FROM THE WEST CORNER OF THE RAYBURN WROUGHT IRON PERIMETER FENCE AND APPROXIMATELY 23 FEET NORTHWEST OF THAT FENCE X = 2,598,258.66 FEET  
Y = 7,014,949.91 FEET  
ELEV. = 523.66 FEET

**RC406**  
X SET ON THE WEST CORNER OF THE TOP OF A Y-INLET AT THE WESTERLY OR SOUTHWESTERLY END OF THE CONCRETE FLUME SYSTEM AT ITS DISCHARGE POINT WEST OF THE MAIN RAYBURN HEADQUARTERS CAMPUS X = 2,598,383.81 FEET  
Y = 7,014,687.00 FEET  
ELEV. = 520.13 FEET

**RC409**  
X SET ON THE TOP OF A CONCRETE CURB ON THE SOUTH SIDE OF THE SOUTHERLY PERIMETER ROAD FROM WHICH THE SOUTH STEEL FENCE CORNER POST OF A CHAIN LINK FENCE ON THE SOUTH LAWN OF EXISTING BUILDING B BEARS N. 78-1/2° W, APPROXIMATELY 103 FEET AND THE SOUTH CORNER OF EXISTING BUILDING C BEARS N. 07-1/4° E, APPROXIMATELY 50 FEET X = 2,598,815.58 FEET  
Y = 7,014,716.20 FEET  
ELEV. = 528.21 FEET

## LEGEND

	EXISTING LIMIT OF TREE LINE/DENSE VEGETATION
	EXISTING CONCRETE PIPE & SIZE
	EXISTING CONTOUR SURFACE ELEVATION MAJOR
	EXISTING CONTOUR SURFACE ELEVATION MINOR
	EXISTING CHAIN LINK FENCE
	EXISTING WROUGHT IRON FENCE
	EXISTING POWER POLE
	EXISTING OVERHEAD ELECTRIC
	EXISTING GUY WIRE
	EXISTING SIGN
	PROPOSED WROUGHT IRON FENCE/GATE
	PROPOSED CONTOUR SURFACE ELEVATION MAJOR
	PROPOSED CONTOUR SURFACE ELEVATION MINOR

## PROJECT NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH AND EXCAVATION SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY AND COUNTY STANDARDS, TEXAS LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
2. THE LOCATION OF ALL UTILITIES SHOWN ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR AS NECESSARY PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS PROJECT.

4. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 48 HRS. PRIOR TO ANY EXCAVATION TO FACILITATE UNDERGROUND DAMAGE PREVENTION: TEXAS 811 (OR 800-344-8377).
5. ALL RADII ARE TO EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

6. SITE AND ACCESS DRIVE PREPARATION SHALL INCLUDE THE REMOVAL OF ALL EXISTING VEGETATION, TOPSOIL, AND OTHER EXISTING ELEMENTS AS REQUIRED. AREAS TO RECEIVE FILL OR PAVING SHALL BE STRIPPED TO A MINIMUM DEPTH OF THREE (3) INCHES AND GRUBBED TO REMOVE VEGETATION AND ORGANIC MATTER. SCRAPPING, GRUBBING, AND SUBGRADE PREPARATION FOR PAVING AREAS SHALL EXTEND TO 5 FEET BEYOND THE PAVING LIMITS. STRIPPED VEGETATION AND ORGANIC MATTER MAY BE REUSED IN AREAS OUTSIDE OF PAVING AREAS THAT REQUIRE THE ADDITION OF TOPSOIL IF THESE MATERIALS MEET THE TOPSOIL SPECIFICATION.

THE CONTRACTOR SHALL THEN EXCAVATE TO THE PROPOSED GRADE/SUBGRADE AS NECESSARY. PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL, THE EXPOSED SUBGRADE SHOULD BE EXAMINED BY THE GEOTECHNICAL ENGINEER OR AUTHORIZED REPRESENTATIVE. THE EXPOSED SUBGRADE SHOULD BE THOROUGHLY PROOFROLLED WITH PREVIOUSLY APPROVED CONSTRUCTION EQUIPMENT HAVING A MINIMUM AXLE LOAD OF 20 TONS (E.G. FULLY LOADED TANDEM-AXLE DUMP TRUCK) TO IDENTIFY ANY SOFT, UNSUITABLE, OR OTHER LOCALIZED YIELDING MATERIALS. THE AREAS SUBJECT TO PROOFROLING SHOULD BE TRAVELED BY THE EQUIPMENT IN TWO PERPENDICULAR (ORTHOGONAL) WITH OVERLAPPING PASSES OF THE OF THE VEHICLE UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER OR AUTHORIZED REPRESENTATIVE. ANY UNSTABLE OR "PUMPING" SUBGRADE AREAS IDENTIFIED BY THE PROOFROLING SHOULD BE MARKED FOR REPAIR PRIOR TO PLACEMENT OF ANY SUBSEQUENT FILL OR OTHER CONSTRUCTION MATERIALS. METHODS OF STABILIZING "PUMPING" AREAS MAY INCLUDE UNDERCUTTING, MOISTURE CONDITIONING, OR CHEMICAL STABILIZATION AND SHOULD BE DISCUSSED WITH THE GEOTECHNICAL ENGINEER TO DETERMINE THE APPROPRIATE PROCEDURE. EXCAVATED AREAS SHOULD BE BACKFILLED WITH SUITABLE, PROPERLY PLACED AND COMPAKTED FILL IN ACCORDANCE WITH THE FILL SPECIFICATIONS HEREIN.

SUITABLE AREAS TO RECEIVE FILL OR FLEXIBLE BASE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF SIX (6) INCHES AND UNIFORMLY COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D 698) WITH A MINIMUM MOISTURE CONTENT AT OR ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THAT TEST. ALL FILLS SHOULD BE BENCHED INTO THE EXISTING SOILS.

ON-SITE SOILS FREE OF VEGETATION, DEBRIS, AND ROCKS NO GREATER THAN TWO (2) INCHES IN MAXIMUM DIMENSION ARE GENERALLY SUITABLE FOR SITE GRADING OPERATIONS. IMPORTED FILL MATERIALS, IF USED, SHALL BE CLEAN, SOIL BORROW FOR BACKFILLING AND SITE GRADING AND SHALL BE EARTHEN COHESIVE SOIL MATERIALS CONFORMING TO THE PROJECT SPECIFICATIONS WITH A PLASTICITY INDEX (PI) NO GREATER THAN 40 WITH NO ROCK GREATER THAN FOUR (4) INCHES IN MAXIMUM DIMENSION.

THE SOILS SHALL BE SPREAD ON PREVIOUSLY SCARIFIED AND COMPACTED GROUND IN LOOSE LIFTS LESS THAN EIGHT (8) INCHES THICK FOR MASS GRADING OPERATIONS AND LESS THAN FOUR (4) INCHES THICK FOR TRENCH TYPE EXCAVATIONS WHERE WALK BEHIND OR "JUMPING JACK" COMPACTION EQUIPMENT IS USED AND UNIFORMLY COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D698) WITH A MOISTURE CONTENT AT OR ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THAT TEST. UPON COMPLETION OF FILLING OPERATIONS, CARE SHOULD BE TAKEN TO MAINTAIN THE SOIL MOISTURE CONTENT AS NECESSARY PRIOR TO CONSTRUCTION OF SWITCHYARD AND SUBSTATION FOUNDATIONS. IF FILL OPERATIONS ARE SUSPENDED AND THE SURFACE OF THE PREVIOUSLY PLACED MATERIAL BECOMES DESICCATED OR CRUTED, THE SURFACE SHALL BE REWORKED AND RETESTED AS REQUIRED PRIOR TO PLACEMENT OF A SUBSEQUENT LIFT. FIELD DENSITY AND MOISTURE TESTS SHOULD BE PERFORMED ON EACH LIFT AS NECESSARY TO VERIFY THAT ADEQUATE COMPACTION IS ACHIEVED. A MINIMUM OF ONE TEST PER 2,500 SQUARE FEET PER LIFT IS REQUIRED. UTILITY TRENCH BACKFILL SHOULD BE TESTED AT A RATE OF ONE TEST PER LIFT PER EACH 150 LINEAR FEET OF TRENCH (TWO TESTS MINIMUM PER LIFT).

ACCESS DRIVE SUBGRADE AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF SIX (6) INCHES AND UNIFORMLY COMPACTED TO A MINIMUM DEPTH OF 6 INCHES TO A MINIMUM OF NINETY-FIVE PERCENT (95%) MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D698) WITH A MOISTURE CONTENT AT OR ABOVE OPTIMUM MOISTURE CONTENT AS SPECIFIED IN THE BELOW REFERENCED GEOTECHNICAL REPORT. 6 INCHES COMPACTED DEPTH OF LIME STABILIZED SOIL (8% HYDRATED LIME AT 36 LBS/SY) IS RECOMMENDED FOR STANDARD DUTY PAVEMENT AREAS. THERE IS AN OPTION TO REPLACE THE LIME STABILIZED SUBGRADE WITH 6 INCHES OF COMPACTED SOIL SUBGRADE AND TO INCREASE THE CONCRETE PAVEMENT THICKNESS BY ONE HALF INCH TO EACH OF THE PAVEMENT THICKNESSES IN THE PLANS. IF LIME STABILIZATION IS CONSIDERED, THE SUBGRADE SOILS SHOULD BE EVALUATED FOR SOLUBLE SULFATE CONCENTRATIONS TO EVALUATE THE SUITABILITY OF SOILS FOR LIME STABILIZATION.

ACCESS DRIVE SUBGRADE AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF SIX (6) INCHES AND UNIFORMLY COMPACTED TO A MINIMUM DEPTH OF 6 INCHES TO A MINIMUM OF NINETY-FIVE PERCENT (95%) MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D698) WITH A MOISTURE CONTENT AT OR ABOVE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THAT TEST.

ALL DRAINAGE AND UTILITY TRENCH EXCAVATION BACKFILL ABOVE PIPE EMBEDMENT MATERIAL SHALL MEET THE ABOVE COMPACTION SPECIFICATIONS FOR FILL MATERIALS. THE UPPER LAYER OF ALL TRENCHES IN THE BUILDING F YARD AND REPAIRS TO ACCESS DRIVES, IF NECESSARY, SHALL BE BACKFILLED WITH FLEXIBLE BASE SURFACING MEETING THE REQUIREMENTS OF TXDOT ITEM 247 DRIVES, IF NECESSARY, SHALL BE BACKFILLED WITH FLEXIBLE BASE SURFACING MEETING THE REQUIREMENTS OF TXDOT ITEM 247 TYPE A GRADE 1-2 (WET BALL MILL MAX. = 25%). COMPACTION SPECIFICATIONS SHALL BE AS NOTED ABOVE FOR FLEXIBLE BASE SURFACING.

7. EXISTING VEGETATION SHALL BE UNDISTURBED, WHENEVER POSSIBLE, THROUGHOUT THE REMAINDER OF THE SITE NOT AFFEKTED BY THE INSTALLATION OF THE APPROVED FACILITIES. ALL AREAS DISTURBED OUTSIDE OF THE YARD SURFACING AND DRIVEWAY PAVING AREAS BY CONTRACTOR'S OPERATIONS SHALL BE STABILIZED BY BROADCAST SEEDING AND FERTILIZER OVER 4" OF TOP SOIL UPON COMPLETION OF GRADING OPERATIONS. CONTRACTOR SHALL PROVIDE WATER AS NECESSARY TO ESTABLISH PERMANENT VEGETATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

8. CONCRETE PAVING SHALL HAVE A CONSTRUCTION JOINT OR SAWED CONTROL JOINT EVERY FIFTEEN (15) FEET TRANSVERSELY AND LONGITUDINALLY WITH EXPANSION JOINTS AT INTERSECTIONS, BEGINNING AND ENDING OF HORIZONTAL CURVES, AND AT MAXIMUM TWO HUNDRED (200) FEET SPACING. JOINTS SHALL INTERSECT ALL PAVEMENT EDGES AT NINETY (90) DEGREES INCLUDING RADIUS RETURNS. WHEN INTERSECTING RADIUS RETURNS, THE MINIMUM PERPENDICULAR DISTANCE INTO THE RETURN SHALL BE ONE AND A HALF (1.5) FEET.

9. THE PAVING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO INSURE ALL UNDERGROUND CONSTRUCTION IS COMPLETE PRIOR TO SUBGRADE PREPARATION.

10. REFER TO PROJECT GEOTECHNICAL SPECIFICATIONS IN ECS SOUTHWEST, LLP GEOTECHNICAL ENGINEERING REPORT FOR PROJECT NO. 19: 8878 TITLED "REC CAMPUS EXPANSION, 950 SIDS ROAD, ROCKWALL, TEXAS" DATED OCTOBER 4, 2022 FOR SITE PREPARATION, EXCAVATION, FILL, COMPACTION, TESTING REQUIREMENTS, ETC. REFER TO "ADDENDUM 1" TO THIS GEOTECHNICAL ENGINEERING REPORT DATED OCTOBER 5, 2022 FOR SITE RETAINING WALL DESIGN PARAMETERS AND "ADDENDUM 2" TO THIS GEOTECHNICAL ENGINEERING REPORT DATED JANUARY 24, 2023 FOR DESIGN AND CONSTRUCTION RECOMMENDATIONS FOR THE RETENTION POND. THESE DOCUMENTS SHALL BECOME A PART OF THESE PLANS AND SPECIFICATIONS. REFER TO SHEET C13.1-P2 TYPICAL PAVING SECTIONS FOR SPECIFIC PAVING AND SUBGRADE MATERIALS AND THICKNESSES FOR THIS PROJECT.

11. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**HKS**

**ARCHITECT**  
HKS, INC.  
350 N SAINT PAUL ST  
SUITE 100  
DALLAS, TX 75201

**LANDSCAPE ARCHITECT**  
KIMLEY-HORN AND ASSOCIATE, INC.  
260 EAST DAVIS STREET, SUITE 100  
MCKINNEY, TX 75069

**STRUCTURAL ENGINEER**  
HKS, INC.  
350 N SAINT PAUL ST, SUITE 100  
DALLAS, TX 75201-4240

**MEP ENGINEERS**  
SYSKA HENNESSY GROUP  
4925 GREENVILLE AVENUE, SUITE 415  
DALLAS, TX 75206

**OWNER/ APPLICANT**  
RAYBURN ELECTRIC COOPERATIVE  
950 SIDS ROAD  
ROCKWALL, TX 76087  
469-402-2100

**CIVIL ENGINEER**  
R-DELTA ENGINEERS, INC.  
618 MAIN STREET  
GARLAND, TEXAS 75040  
TBPE No. F-1515

**REC**  
Rayburn Electric  
COOPERATIVE



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRIAN PAUL PATRICK, P.E. 80844 ON JANUARY 18, 2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

RECORD DRAWING

NOTE: THIS RECORD DRAWING IS A COMPIALATION OF THE ORIGINAL SEALED ENGINEERING DRAWING FOR THIS PROJECT. INFORMATION FURNISHED BY THE CONTRACTOR AND FIELD SURVEY VERIFICATION, TO THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS, INC. STATES THAT THE PLAN IS AS-BUILT.

FRANK A. POLINA, P.E. TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO. F-001515

REVISION  
NO. DESCRIPTION DATE

PROJECT NUMBER  
**3036.21**

DATE  
**01/18/2024**

ISSUE FOR CONSTRUCTION

**SUBMITTAL**  
SHEET TITLE  
**LEGEND, PROJECT CONTROL & NOTES**

CASE# E2023-042  
SHEET NO.

**C1.1-P2**



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED  
BY BRIAN PAUL PATRICK, P.E. #80844 ON JANUARY 18,  
2024. ALTERATION OF A SEALED DOCUMENT WITHOUT  
PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN  
OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

RECORD DRAWING

NOTE: THIS RECORD DRAWING IS A COMPLIANCE OF  
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THIS PROJECT. INFORMATION FURNISHED BY THE  
CONTRACTOR AND FIELD SURVEY VERIFICATION,  
TO THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS,  
INC. STATES THAT THE PLAN IS AS-BUILT.

11/06/2024

FRANK A. POMA, P.E. #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

REVISION  
NO. DESCRIPTION DATE

PROJECT NUMBER

**3036.21**

DATE

**01/18/2024**

ISSUE FOR CONSTRUCTION

**SUBMITTAL**

SHEET TITLE

**COR GENERAL  
CONSTRUCTION NOTES**

CASE# E2023-042

SHEET NO.

**GENERAL ITEMS**

- All construction shall conform to the requirements set forth in the City of Rockwall's Engineering Department's "Standards of Design and Construction" and the "Standard Specifications for Public Works Construction" by the North Texas Central Council of Governments, 5th edition amended by the City of Rockwall. The CONTRACTOR shall reference the latest City of Rockwall standard details provided in the Rockwall Engineering Departments "Standards of Design and Construction" manual for details not provided in these plans. The CONTRACTOR shall possess one set of the NCTCOG Standard Specifications and Details and the City of Rockwall's "Standards of Design and Construction" manual on the project site at all times.
- Where any conflicting notes, details or specifications occur in the plans the City of Rockwall General Construction Notes, Standards, Details and Specifications shall govern unless detail or specification is more strict.
- The City of Rockwall Engineering Departments "Standards of Design and Construction" can be found online at: <http://www.rockwall.com/engr.asp>
- All communication between the City and the CONTRACTOR shall be through the Engineering Construction Inspector and City Engineer or designated representative only. It is the responsibility of the CONTRACTOR to contact the appropriate department for inspections that do not fall under this approved engineering plan set.
- Prior to construction, CONTRACTOR shall have in their possession all necessary permits, plans, licenses, etc.
- The CONTRACTOR shall have at least one original stamped and signed set of approved engineering plans and specifications on-site and in their possession at all times. A stop work order will be issued if items are not on-site. Copies of the approved plans will not be substituted for the required original "approved plans to be on-site".
- All material submittals, concrete batch designs and shop drawings required for City review and approval shall be submitted by the CONTRACTOR to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
- All site dimensions are referenced to the face of curb or edge of pavement unless otherwise noted.
- The City requires ten (10%) percent-two (2) year maintenance bond for paving, paving improvements, water systems, wastewater systems, storm sewer systems including detention systems, and associated fixtures and structures which are located within the right-of-ways or defined easements. The two (2) year maintenance bond is to state "from date of City acceptance" as the starting time.
- A review of the site shall be conducted at twenty (20) months into the two (2) year maintenance period. The design engineer or their designated representative and the CONTRACTOR shall be present to walk the site with the City of Rockwall Engineering Inspection personnel.

**EROSION CONTROL & VEGETATION**

- The CONTRACTOR or developer shall be responsible, as the entity exercising operational control, for all permitting as required by the Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ). This includes, but is not limited to, preparation of the Storm Water Pollution Prevention Plan (SWPPP), the Construction Site Notice (CSN), the Notice of Intent (NOI), the Notice of Termination (NOT) and any Notice of Change (NOC) and is required to pay all associated fees.
- Erosion control devices as shown on the erosion control plan for the project shall be installed prior to the start of land disturbing activities.
- All erosion control devices are to be installed in accordance with the approved plans, specifications and Storm Water Pollution Prevention Plan (SWPPP) for the project. Erosion control devices shall be placed and in working order prior to start of construction. Changes are to be reviewed and approved by the design engineer and the City of Rockwall prior to implementation.
- If the Erosion Control Plans and Storm Water Pollution Prevention Plan (SWPPP) as approved cannot appropriately control erosion and off-site sedimentation from the project, the erosion control plan and/or the SWPPP is required to be revised and any changes reported to the Texas Commission on Environmental Quality (TCEQ), when applicable.
- All erosion control devices shall be inspected weekly by the CONTRACTOR and after all major rain events, or more frequently as dictated in the project Storm Water Pollution Prevention Plan (SWPPP). CONTRACTOR shall provide copies of inspection's reports to the engineering inspection after each inspection.
- The CONTRACTOR shall not dispose of waste and any materials into streams, waterways or floodplains. The CONTRACTOR shall secure all excavation at the end of each day and dispose of all excess materials.
- CONTRACTOR shall take all available precautions to control dust. CONTRACTOR shall control dust by sprinkling water or other means as approved by the City Engineer.
- CONTRACTOR shall establish grass and maintain the seeded area, including watering, until a "Permanent Stand of Grass" is obtained at which time the project will be accepted by the City. A "Stand of Grass" (not winter rye or weeds) shall consist of 75% to 80% coverage of all disturbed areas and a minimum of one-inch (1") in height as determined by the City. No bare spots will be allowed. Re-seeding will be required in all washed areas and areas that don't grow.
- All City right-of-ways shall be sodded if disturbed. No artificial grass is allowed in any City right-of-way and/or easements.
- All adjacent streets/alleys shall be kept clean at all times.
- CONTRACTOR shall keep construction site clean at all times, immediately contain all debris and trash, all debris and trash shall be removed at the end of each work day, and all vegetation on the construction site 10-inches or taller in height must be cut immediately.
- Suspension of all construction activities for the project will be enforced by the City if any erosion control requirements are not met. Work may commence after deficiency has been rectified.
- During construction of the project, all soil stockpiles and borrow areas shall be stabilized or protected with sediment trapping measures. The CONTRACTOR is responsible for the temporary protection and permanent stabilization of all soil stockpiles on-site as well as borrow areas and soil intentionally transported from the project site.
- Where construction vehicles access routes intersect paved or public roads/alleys, construction entrances shall be installed to minimize the transport of sediment by vehicular tracking onto paved surfaces. Where sediment is transferred onto paved or public surfaces, the surface shall be immediately cleaned. Sediment shall be

removed from the surface by shoveling or sweeping and transported to a sediment disposal area. Pavement washing shall be allowed only after sediment is removed in this manner.

- All drainage inlets shall be protected from siltation, ineffective or unmaintained protection devices shall be immediately replaced and the inlet and storm system cleaned. Flushing is not an acceptable method of cleaning.
- During all dewatering operations, water shall be pumped into an approved filtering device prior to discharge into a receiving outlet.

**TRAFFIC CONTROL**

- All new Detouring or Traffic Control Plans are required to be submitted to the City for review and approval a minimum of 21 calendar days prior to planned day of implementation.
- When the normal function of the roadway is suspended through closure of any portion of the right-of-way, temporary construction zone traffic control devices shall be installed to effectively guide the motoring public through the area. Consideration for road user safety, worker safety, and the efficiency of road user flow is an integral element of every traffic control zone.
- All traffic control plans shall be prepared and submitted to the Engineering Department in accordance with the standards identified in Part VI of the most recent edition of the TMUTCD. Lane closures will not occur on roadways without an approval from the Rockwall Engineering Department and an approved traffic control plan. Traffic control plans shall be required on all roadways as determined by the City Engineer or the designated representative.
- All traffic control plans must be prepared, signed, and sealed by an individual that is licensed as a professional engineer in the State of Texas. All traffic control plans and copies of work zone certification must be submitted for review and approval a minimum of three (3) weeks prior to the anticipated temporary traffic control.
- The CONTRACTOR executing the traffic control plan shall notify all affected property owners two (2) weeks prior to any the closures in writing and verbally.
- Any deviation from an approved traffic control plan must be reviewed by the City Engineer or the designated representative. If an approved traffic control plan is not adhered to, the CONTRACTOR will first receive a verbal warning and be required to correct the problem immediately. If the deviation is not corrected, all construction work will be suspended, the lane closure will be removed, and the roadway opened to traffic.
- All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time at the end of the workday, all temporary traffic control devices that are no longer appropriate shall be removed or covered. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure.
- Lane closures on any major or minor arterial will not be permitted between the hours of 6:00 am to 9:00 am and 3:30 pm to 7:00 pm. Where lane closures are needed in a school area, they will not be permitted during peak hours of 7:00 am - 9:00 am and 3:00 pm to 5:00 pm. Closures may be adjusted according to the actual start-finish times of the actual school with approval by the City Engineer. The first violation of this provision will result in a verbal warning to the construction foreman. Subsequent violations will result in suspension of all work at the job site for a minimum of 48 hours. All contractors working on City funded projects will be charged one working day for each 24 hour closure of a roadway whether they are working or not.
- No traffic signs shall be taken down without permission from the City.
- No street/roadway will be allowed to be fully closed.

**UTILITY LINE LOCATES**

- It is the CONTRACTOR's responsibility to notify utility companies to arrange for utility locates at least 48 hours prior to beginning construction. The completeness and accuracy of the utility data shown on the plans is not guaranteed by the design engineer or the City. The CONTRACTOR is responsible for verifying the depth and location of existing underground utilities proper to excavating, trenching, or drilling and shall be required to take any precautionary measures to protect all lines shown and/or any other underground utilities not on record or not shown on the plans.
- The CONTRACTOR shall be responsible for damages to utilities.
- CONTRACTOR shall adjust all City of Rockwall utilities to the final grades.
- All utilities shall be placed underground.
- CONTRACTOR shall be responsible for the protection of all existing main lines and service lines crossed or exposed by construction operations. Where existing mains or service lines are cut, broken or damaged, the CONTRACTOR shall immediately make repairs to or replace the entire service line with same type of original construction or better. The City of Rockwall can and will intervene to restore service if deemed necessary and charge the CONTRACTOR for labor, equipment, material and loss of water if repairs aren't made in a timely manner by the CONTRACTOR.
- The City of Rockwall (City utilities) is not part of the Dig Tess or Texas one Call – 811 – line locate system. All City of Rockwall utility line locates are to be scheduled with the City of Rockwall Service Center. 972-771-7730. A 48-hour advance notice is required for all non-emergency line locates.
- Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
  - No more than 500 linear feet of trench may be opened at one time.
  - Material used for backfilling trenches shall be properly compacted to 95% standard density in order to minimize erosion, settlement, and promote stabilization that the geotechnical engineer recommends.
  - Applicable safety regulations shall be complied with.
- This plan details pipes up to 5 feet from the building. Refer to the building plans for building connections. CONTRACTOR shall supply and install pipe adapters as necessary.
- All underground lines shall be installed, inspected, and approved prior to backfilling.
- All concrete encasement shall have a minimum of 28 days compressive strength at 3,000 psi (min. 5.5 sack mix).

**WATER LINE NOTES**

- The CONTRACTOR shall maintain existing water service at all times during construction.
- Proposed water lines shall be AWWA C900-16 PVC Pipe (blue in color) for all sizes, DR 14 (PC 305) for pipeline sizes 12-inch and smaller, and DR 18 (PC 235) for 14-inch and larger water pipelines unless otherwise shown on water plan and profiles sheets. Proposed water lines shall be constructed with minimum cover of 4 feet for 6-inch through 8-inch, 5 feet for 12-inch through 18-inch and 6 feet for 20-inch and larger.
- Proposed water line embedment shall be NCTCOG Class 'B-3' as amended by the City of Rockwall's engineering standards of design and construction manual.
- CONTRACTOR shall coordinate the shutting down of all water lines with the City of Rockwall Engineering Inspector and Water Department. The City shall operate all water valves. Allow 5 business days from the date of notice to allow City personnel time to schedule a shut down. Two additional days are required for the CONTRACTOR to notify residents in writing of the shut down after the impacted area has been identified. Water shut downs impacting businesses during their normal operation hours is not allowed. CONTRACTOR is required to coordinate with the Rockwall Fire Department regarding any fire watch requirements as well as any costs incurred when the loss of fire protection to a structure occurs.
- CONTRACTOR shall furnish and install gaskets on water lines between all dissimilar metals and at valves (both existing and proposed).
- All fire hydrants and valves removed and salvaged shall be returned to the City of Rockwall Municipal Service Center.
- Blue EMS pads shall be installed at every change in direction, valve, curb stop and service tap on the proposed water line and every 250'.
- All water valve hardware and valve extensions, bolts, nuts and washers shall be 316 stainless steel.
- All fire hydrants bolts, nuts and washers that are buried shall be 316 stainless steel.
- Abandoned water lines to remain in place shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product. Valves to be abandoned in place shall have any extensions and the valve box removed and shall be capped in concrete.
- All fire hydrants will have a minimum of 5 feet of clearance around the appurtenance including but not limited to parking spaces and landscaping.
- All joints are to be megalug joints with thrust blocking.
- Water and sewer mains shall be kept 10 feet apart (parallel) or when crossing 2 feet vertical clearance.
- CONTRACTOR shall maintain a minimum of 4 feet of cover on all water lines.
- All domestic and irrigation services are required to have a testable backflow device with a double check valve installed per the City of Rockwall regulations at the property line and shown on plans.

**WASTEWATER LINE NOTES**

- The CONTRACTOR shall maintain existing wastewater service at all times during construction.
- Wastewater lines for 4-inch through 15-inch shall be Green PVC – SDR 35 (ASTM D3034) [less 10 ft cover] and SDR 26 (ASTM D3034) [10 ft or more cover]. For 18-inch and larger wastewater line shall be Green PVC – PS 46 (ASTM F679) [less 10 ft cover] and PS 115 (ASTM F679) [10 ft or more cover]. No services will be allowed on a sanitary sewer line deeper than 10 feet.
- Proposed wastewater line embedment shall be NCTCOG Class 'H' as amended by the City of Rockwall's public works standard design and construction manual.
- Green EMS pads shall be installed at every 250', manhole, clean out and service lateral on proposed wastewater lines.
- CONTRACTOR shall CCTV all existing wastewater lines that are to be abandoned to ensure that all laterals are accounted for and transferred to proposed wastewater lines prior to abandonment.
- All abandoned wastewater and force main lines shall be cut and plugged and all void spaces within the abandoned line shall be filled with grout, flowable fill or an expandable permanent foam product.
- Existing manholes and cleanouts not specifically called to be relocated shall be adjusted to match final grades.
- All wastewater pipes and public services shall be inspected by photographic means (television and DVD) prior to final acceptance and after franchise utilities are installed. The CONTRACTOR shall furnish a DVD to the Engineering Construction Inspector for review. Pipes shall be cleaned prior to TV inspection of the pipes. Any sags, open joints, cracked pipes, etc. shall be repaired or removed by the CONTRACTOR at the CONTRACTOR's expense. A television survey will be performed as part of the final testing in the twentieth (20<sup>th</sup>) month of the maintenance period.
- All manholes (public or private) shall be fitted with inflow prevention. The inflow prevention shall conform to the measures called out in standard detail R-5031.
- All new or existing manholes being modified shall have corrosion protection being Raven Liner 405 epoxy coating, ConShield, or approved equal. Conshield must have terracotta color dye mixed in the precast and cast-in-place concrete. Where connections to existing manholes are made the CONTRACTOR shall rehab manhole as necessary and install a 125 mil thick coating of Raven Liner 405 or approved equal.
- All new or existing manholes that are to be placed in pavement shall be fitted with a sealed (gasketed) rim and cover to prevent inflow.
- If an existing wastewater main or trunk line is called out to be replaced in place a wastewater bypass pump plan shall be required and submitted to the Engineering Construction Inspector and City Engineer for approval prior to implementation. Bypass pump shall be fitted with an auto dialer and conform to the City's Noise Ordinance. Plan shall be to the City sufficiently in advance of scheduled construction to allow no less than 10 business days for review and response by the City.
- CONTRACTOR shall maintain a minimum of 4 feet of cover on all wastewater lines.



**GENERAL CONSTRUCTION NOTES**  
Sheet 1 of 2  
October 2020

**CITY OF ROCKWALL  
ENGINEERING DEPARTMENT**

385 S. Goliad  
Rockwall, Texas 75087  
P (972) 771-7746  
F (972) 771-7748

PROJECT NUMBER

**3036.21**

DATE

**01/18/2024**

ISSUE FOR CONSTRUCTION

**SUBMITTAL**

SHEET TITLE

**COR GENERAL  
CONSTRUCTION NOTES**

CASE# E2023-042

SHEET NO.





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11/06/2024  
FRANK A. POMA, P.E. TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

REVISION NO.	DESCRIPTION	DATE

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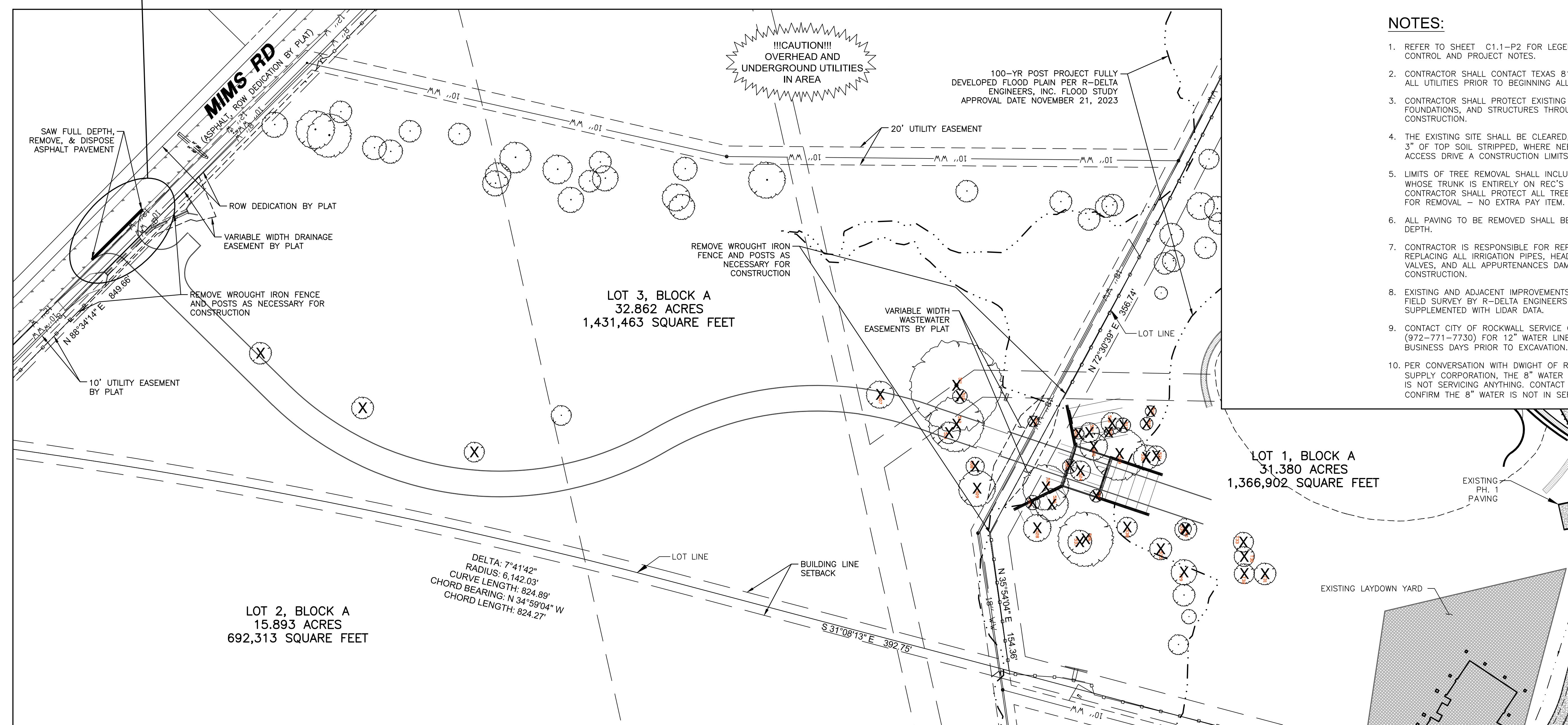
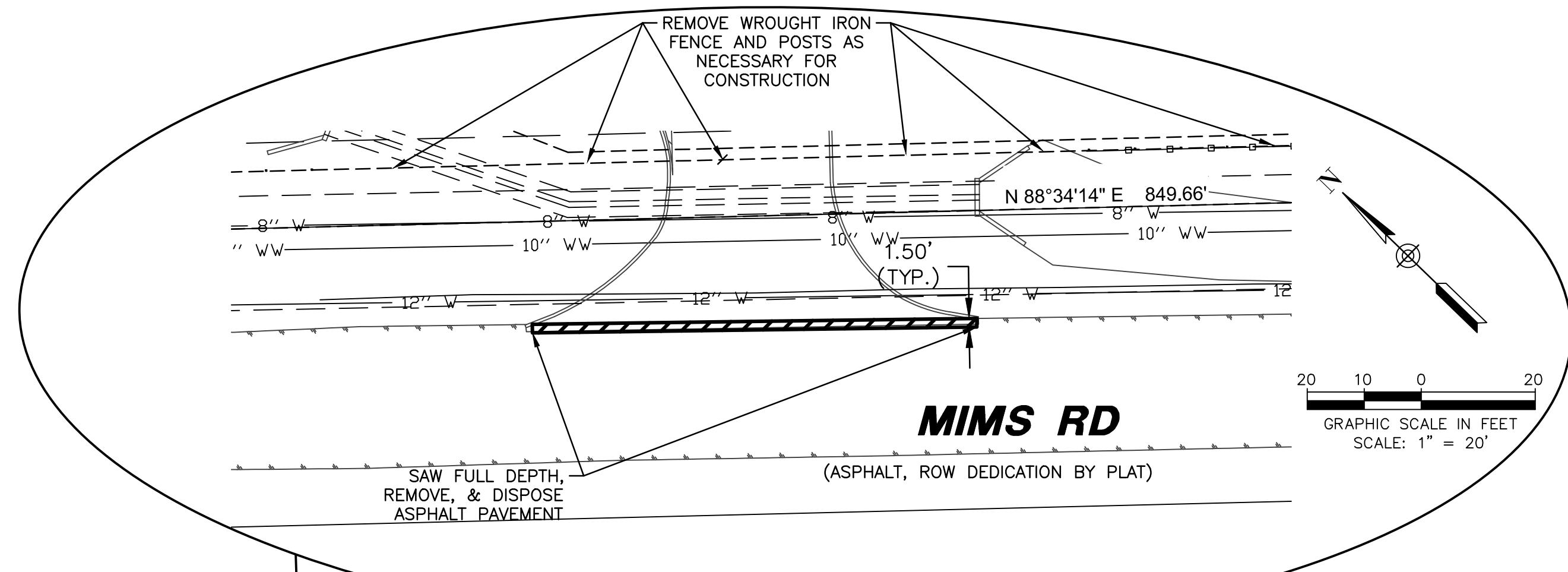
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SHEET TITLE

**DEMOLITION PLAN**

CASE# E2023-042  
SHEET NO.



NOTE:  
CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES (SHOWN ON PLANS OR NOT) PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS DIFFER SIGNIFICANTLY FROM LOCATIONS SHOWN ON PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. R-DELTA ENGINEERS, INC. WILL NOT BE RESPONSIBLE FOR ANY WORK BY THE CONTRACTOR NEGLECTING TO LOCATE THESE UTILITIES.

NOTE:  
EROSION & SEDIMENT CONTROL BMPs  
SHALL BE IN PLACE PRIOR TO ANY  
SOIL DISTURBING ACTIVITIES.

### LEGEND

- □ EXISTING WROUGHT IRON FENCE
- ○ EXISTING CHAIN LINK FENCE
- XXXXX EXISTING ITEM REMOVAL
- ▨▨▨▨ ASPHALT REMOVAL
- X TREE REMOVAL
- - - 100-YR POST PROJECT FULLY DEVELOPED FLOOD PLAIN PER R-DELTA ENGINEERS, INC. FLOOD STUDY

### NOTES:

1. REFER TO SHEET C1.1-P2 FOR LEGEND, PROJECT CONTROL AND PROJECT NOTES.
2. CONTRACTOR SHALL CONTACT TEXAS 811 TO LOCATE ALL UTILITIES PRIOR TO BEGINNING ALL WORK.
3. CONTRACTOR SHALL PROTECT EXISTING BUILDINGS, FOUNDATIONS, AND STRUCTURES THROUGHOUT CONSTRUCTION.
4. THE EXISTING SITE SHALL BE CLEARED, GRUBBED, AND 3' OF SOIL STRIPPED, WHERE NEEDED, WITHIN THE ACCESS DRIVE A CONSTRUCTION LIMITS.
5. LIMITS OF TREE REMOVAL SHALL INCLUDE THOSE TREES WHOSE TRUNK IS ENTIRELY ON REC'S PROPERTY. CONTRACTOR SHALL PROTECT ALL TREES NOT IDENTIFIED FOR REMOVAL - NO EXTRA PAY ITEM.
6. ALL PAVING TO BE REMOVED SHALL BE SAWED FULL DEPTH.
7. CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND REPLACING ALL IRRIGATION PIPES, HEADS, METERS, VALVES, AND ALL APPURTENANCES DAMAGED DURING CONSTRUCTION.
8. EXISTING AND ADJACENT IMPROVEMENTS SHOWN FROM FIELD SURVEY BY R-DELTA ENGINEERS, INC. AND SUPPLEMENTED WITH LIDAR DATA.
9. CONTACT CITY OF ROCKWALL SERVICE CENTER (972-771-7730) FOR 12" WATER LINE LOCATES 2 BUSINESS DAYS PRIOR TO EXCAVATION.
10. PER CONVERSATION WITH DWIGHT OF RCH WATER SUPPLY CORPORATION, THE 8" WATER MAIN IN MIMS RD IS NOT SERVICING ANYTHING. CONTACT RCH WSC TO CONFIRM THE 8" WATER IS NOT IN SERVICE.

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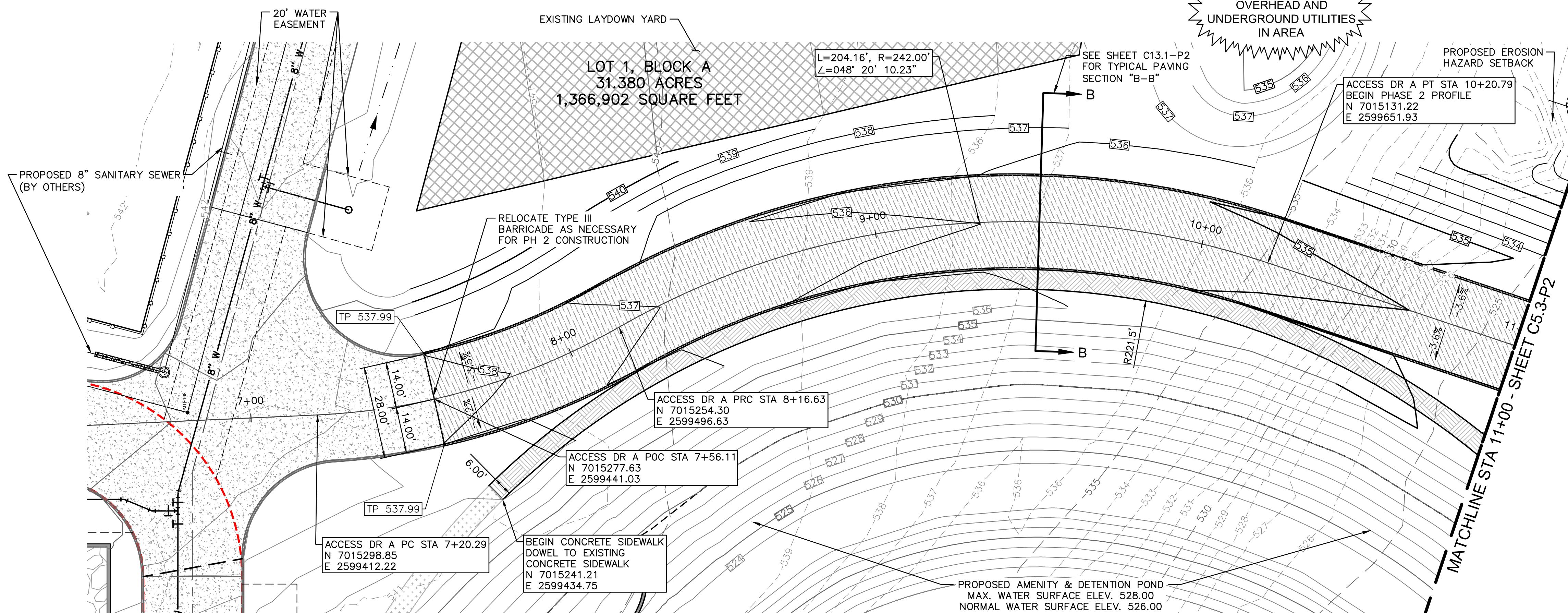
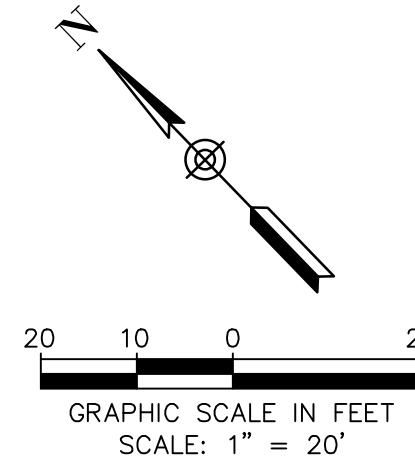
SHEET TITLE

**DEMOLITION PLAN**

CASE# E2023-042

SHEET NO.

**C2.1-P2**

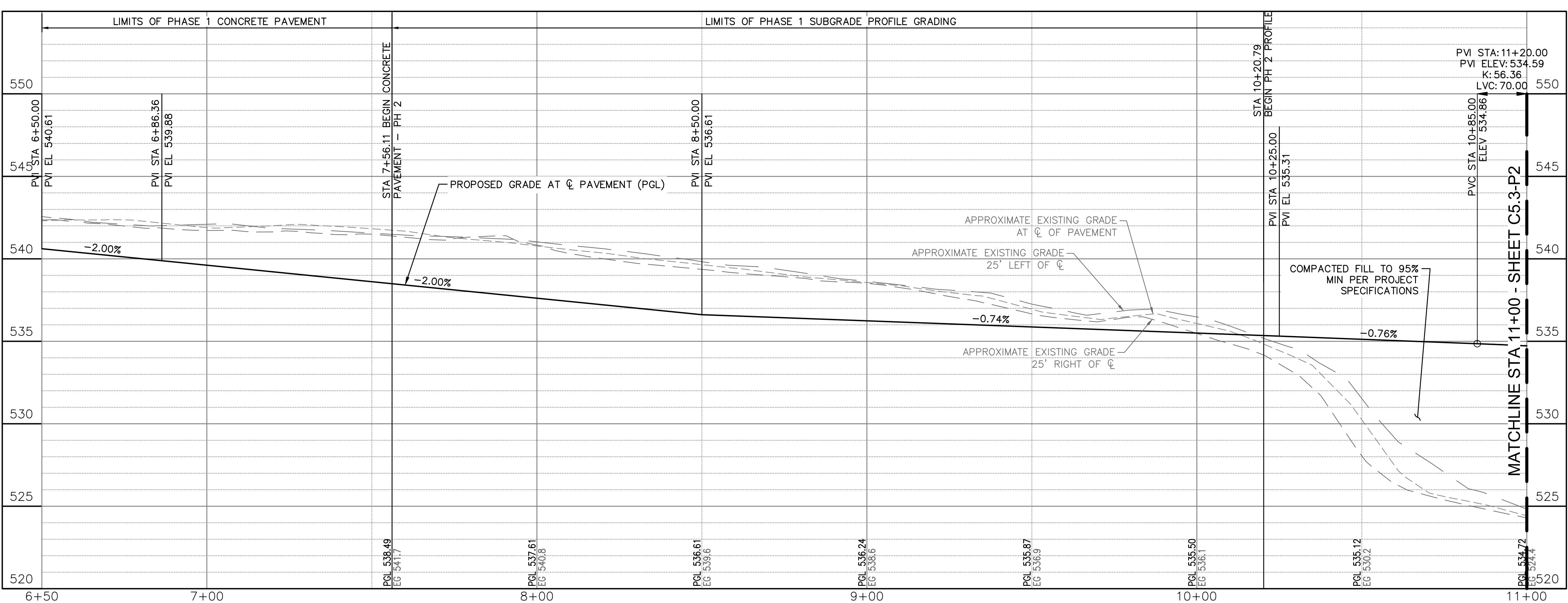


PLAN ACCESS DRIVE A

SCALE: 1"=20'

**LEGEND**

	EXISTING SIDEWALK - 4" CONC. PVMT.
	EXISTING PAVEMENT - 6" CONC. PVMT.
	PROPOSED 4" CONC. PVMT. 3,000 PSI (5.5 SACK MIX) NO. 3 BARS @ 24" C-C MAX SEE SHEET C13.1-P2 FOR SUBGRADE SPECIFICATIONS
	PROPOSED 6" CONC. PVMT. 3,600 PSI (6.5 SACK MIX) NO. 3 BARS @ 18" C-C MAX SEE SHEET C13.1-P2 FOR SUBGRADE SPECIFICATIONS
	EXISTING WROUGHT IRON FENCE
	EXISTING CHAIN LINK FENCE
	EXISTING SURFACE CONTOUR MAJOR
	EXISTING SURFACE CONTOUR MINOR
	PROPOSED PH1 SURFACE CONTOUR MAJOR
	PROPOSED PH1 SURFACE CONTOUR MINOR
	PROPOSED PH2 SURFACE CONTOUR MAJOR
	PROPOSED PH2 SURFACE CONTOUR MINOR
	PROPOSED PAVEMENT CROSS SLOPE
	100-YR POST PROJECT FULLY DEVELOPED FLOOD PLAIN PER R-DELTA ENGINEERS, INC. FLOOD STUDY
	PROPOSED EROSION HAZARD SETBACK
	CROSS-SECTION LOCATION- R-DELTA ENGINEERS, INC. FLOOD STUDY



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CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH  
CONSTRUCTION. R-DELTA ENGINEERS, INC. WILL NOT BE  
RESPONSIBLE FOR ANY WORK BY THE CONTRACTOR  
NEGLECTING TO LOCATE THESE UTILITIES.

PROFILE ACCESS DRIVE A

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE 1"=5'

**NOTES:**

1. ALL SIDEWALKS ARE 6' WIDE UNLESS NOTED OTHERWISE.
2. SEE SHEET C1.1-P2 FOR LEGEND, PROJECT CONTROL AND NOTES.
3. SEE SHEET C13.1-P2 FOR PAVING SECTIONS & DETAILS.



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INC. STATE THAT THE PLAN IS AS-BUILT.

11/06/2025  
FRANK A. POLIA, P.E. TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

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**ACCESS DR A PAVING  
PLAN & PROFILE**

CASE# E2023-042

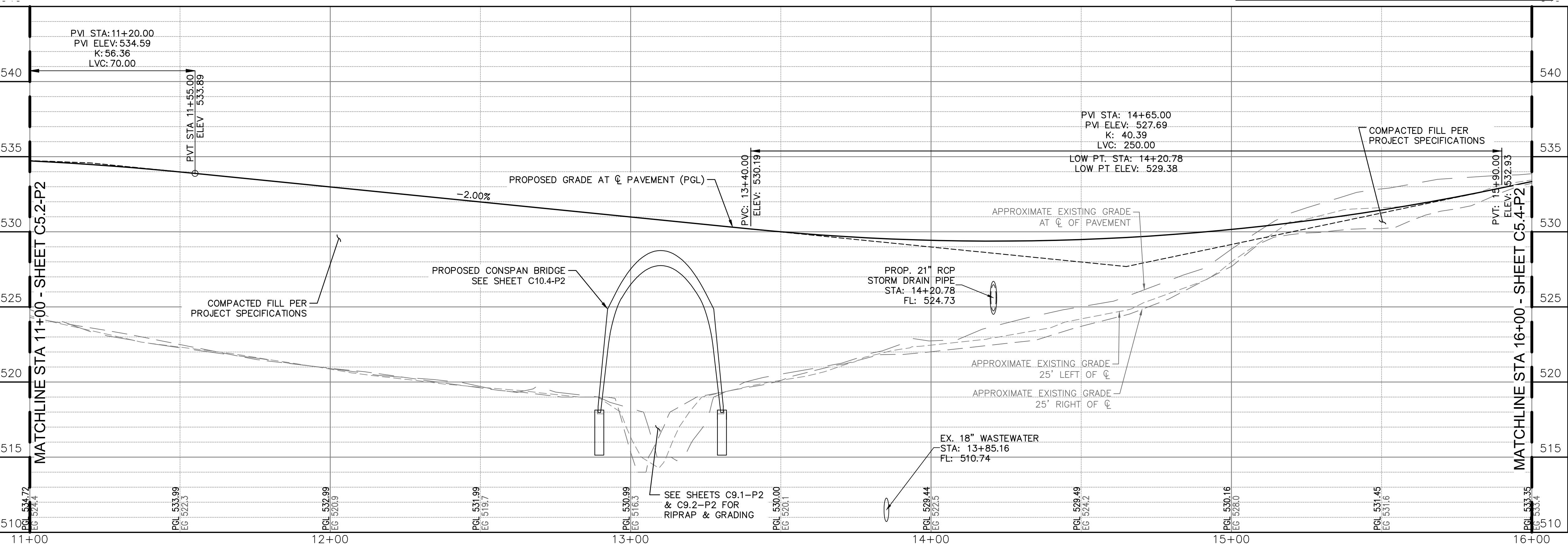
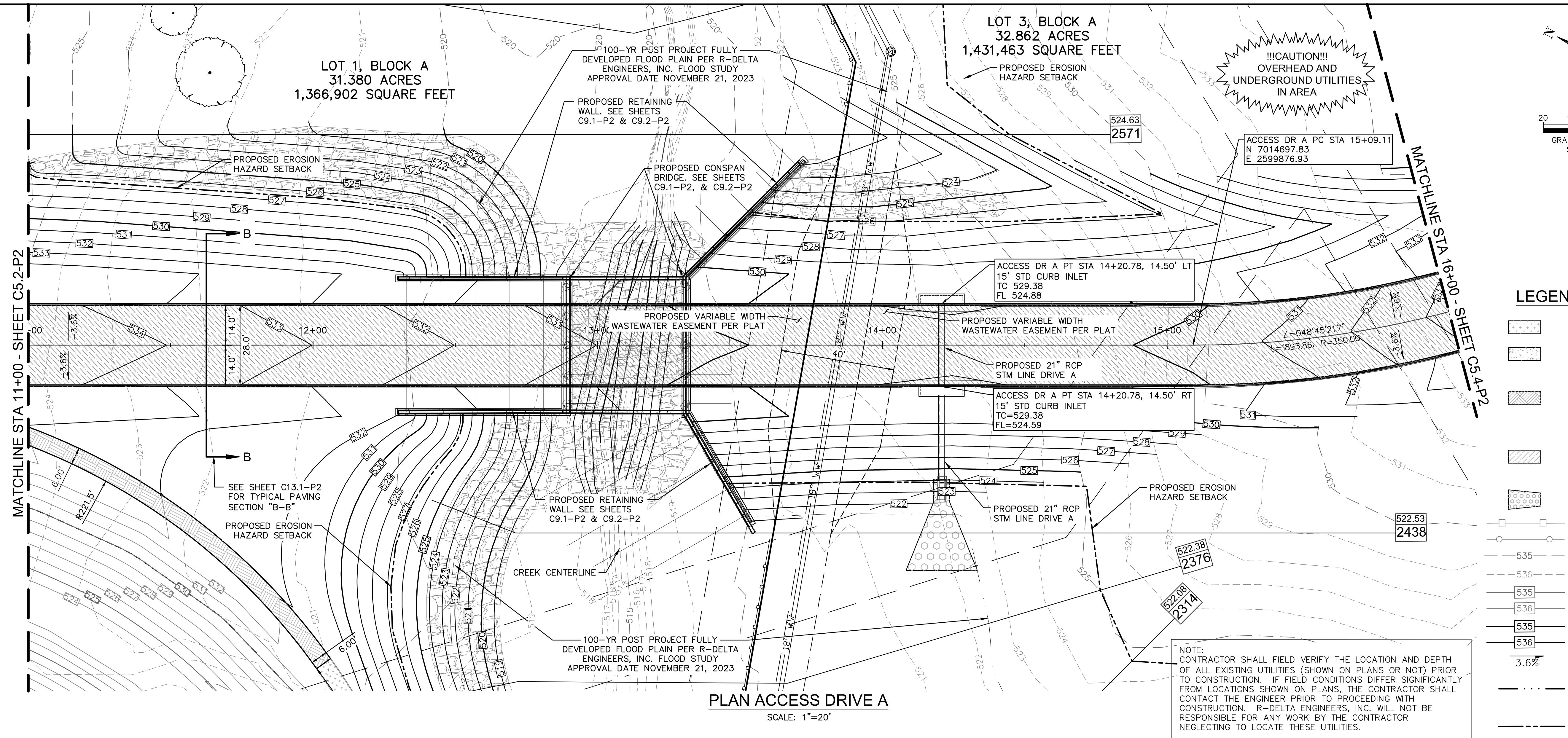
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**C5.2-P2**



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PROFILE ACCESS DRIVE A

HORIZONTAL SCALE: 1"=20'  
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**ACCESS DR A PAVING  
PLAN & PROFILE**

CASE# E2023-042

NOTE NO.

**C5.3-P2**





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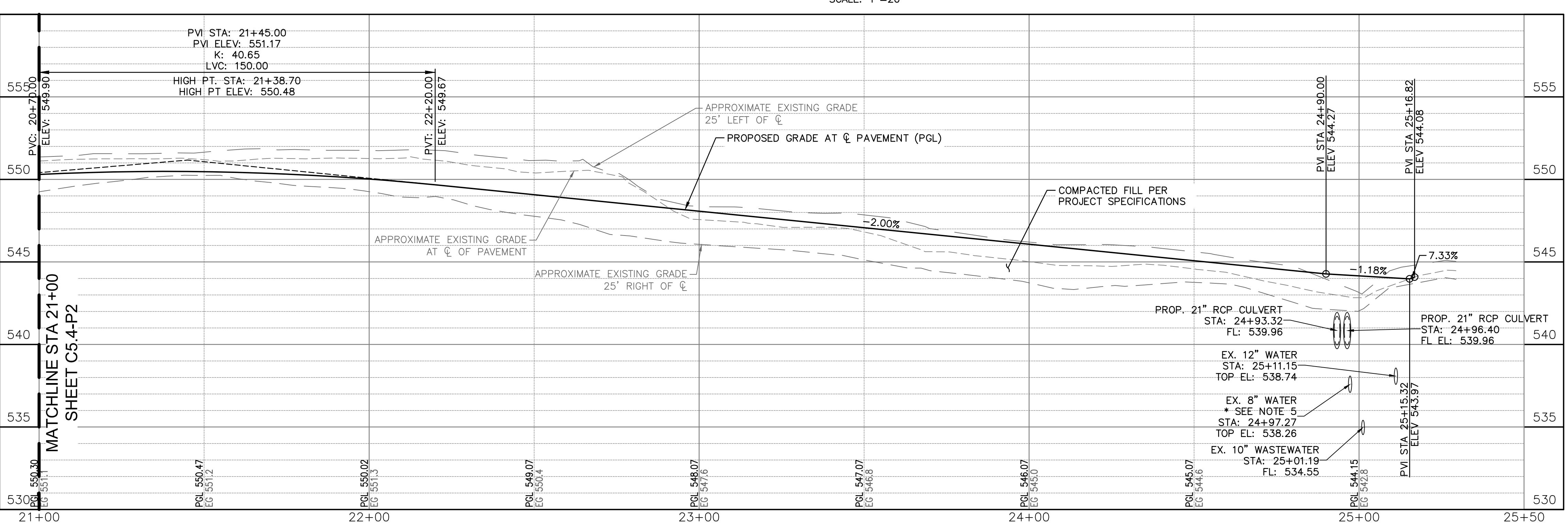
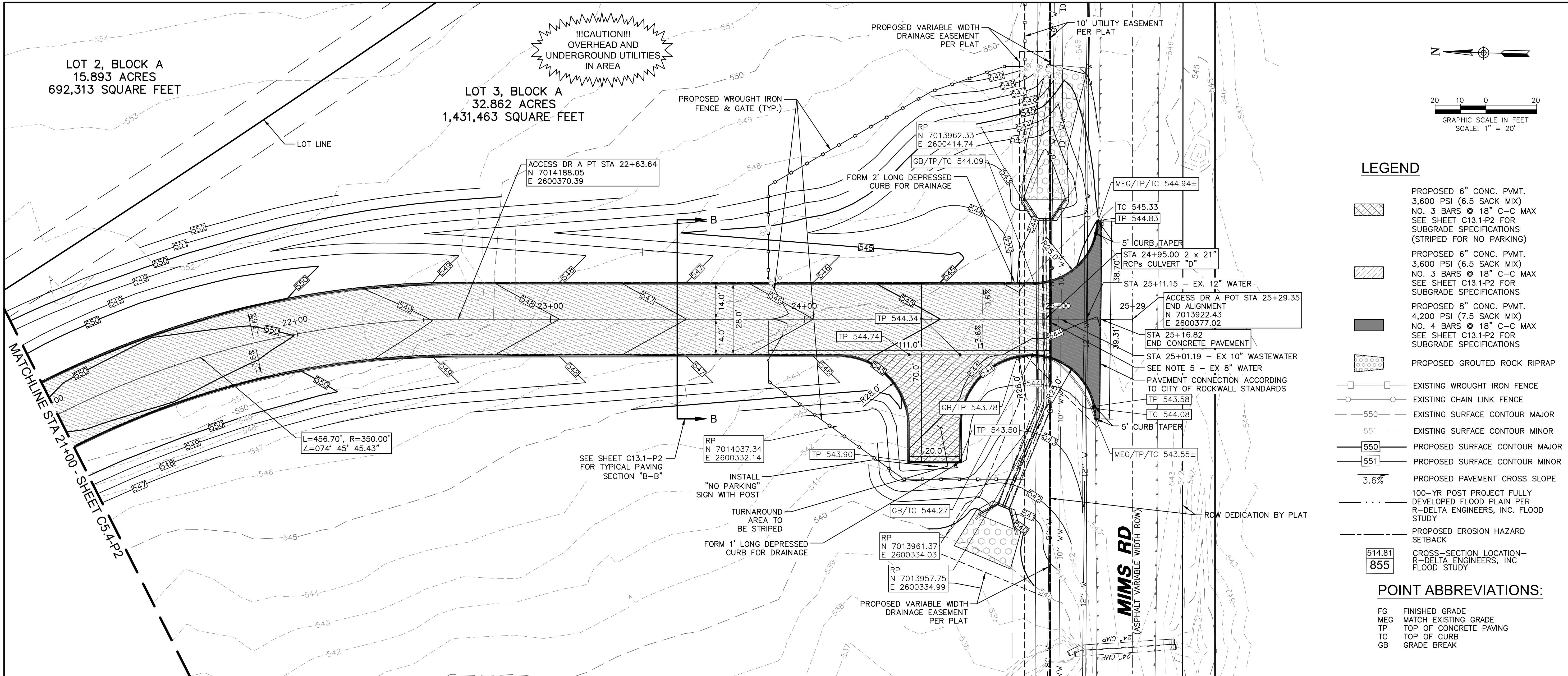
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**ACCESS DR A PAVING PLAN & PROFILE**

CASE# E2023-042

NOTE NO.

**C5.5-P2**





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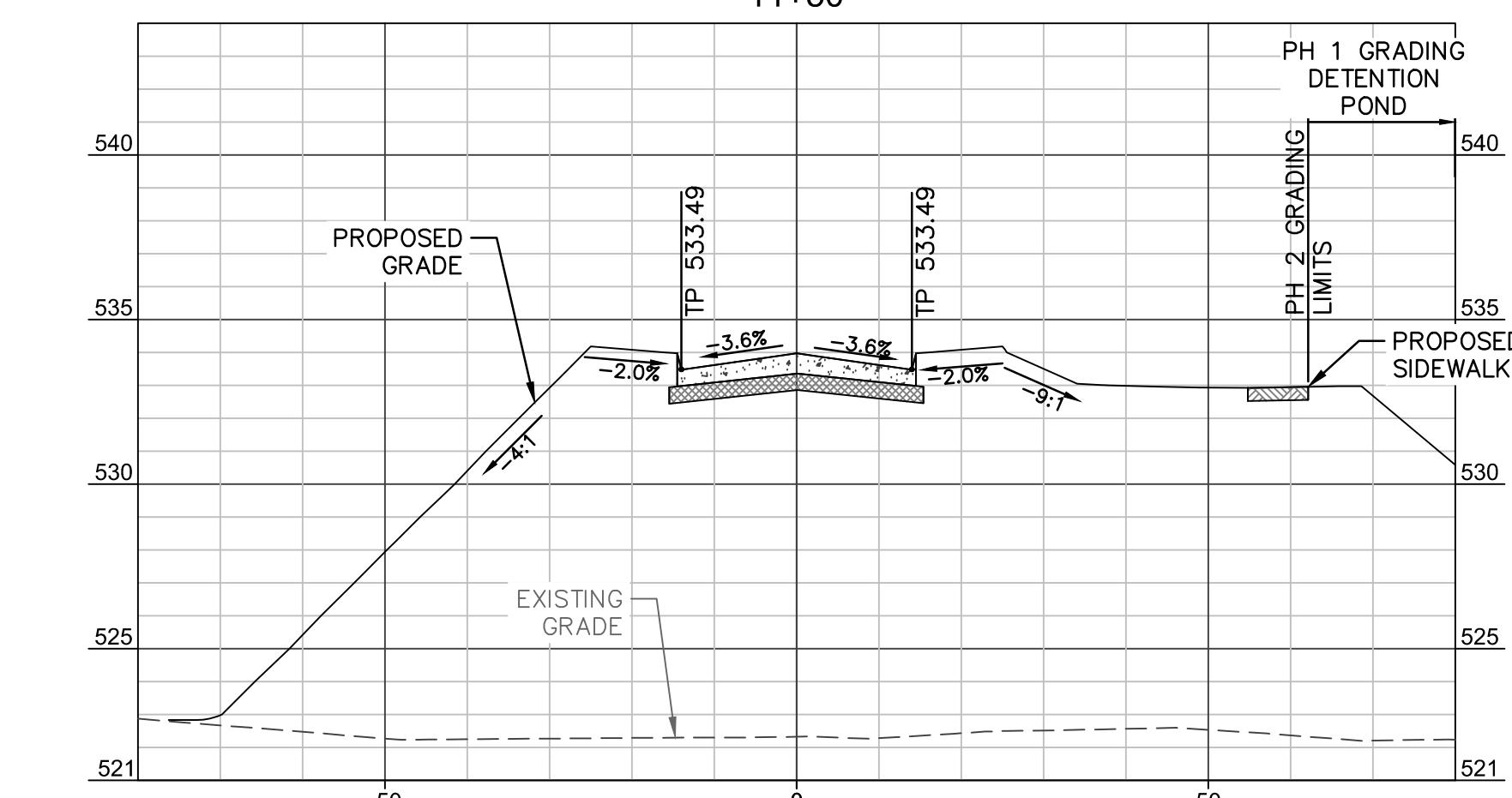
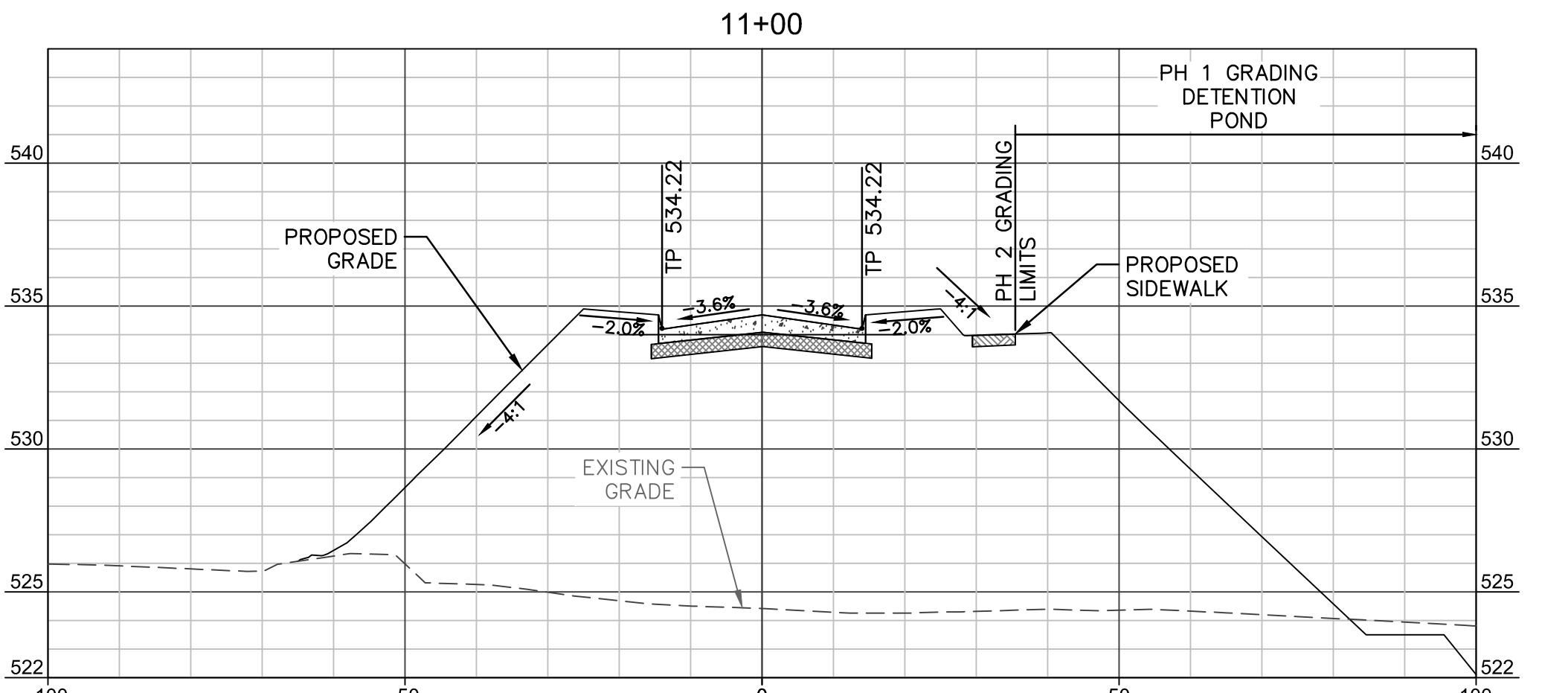
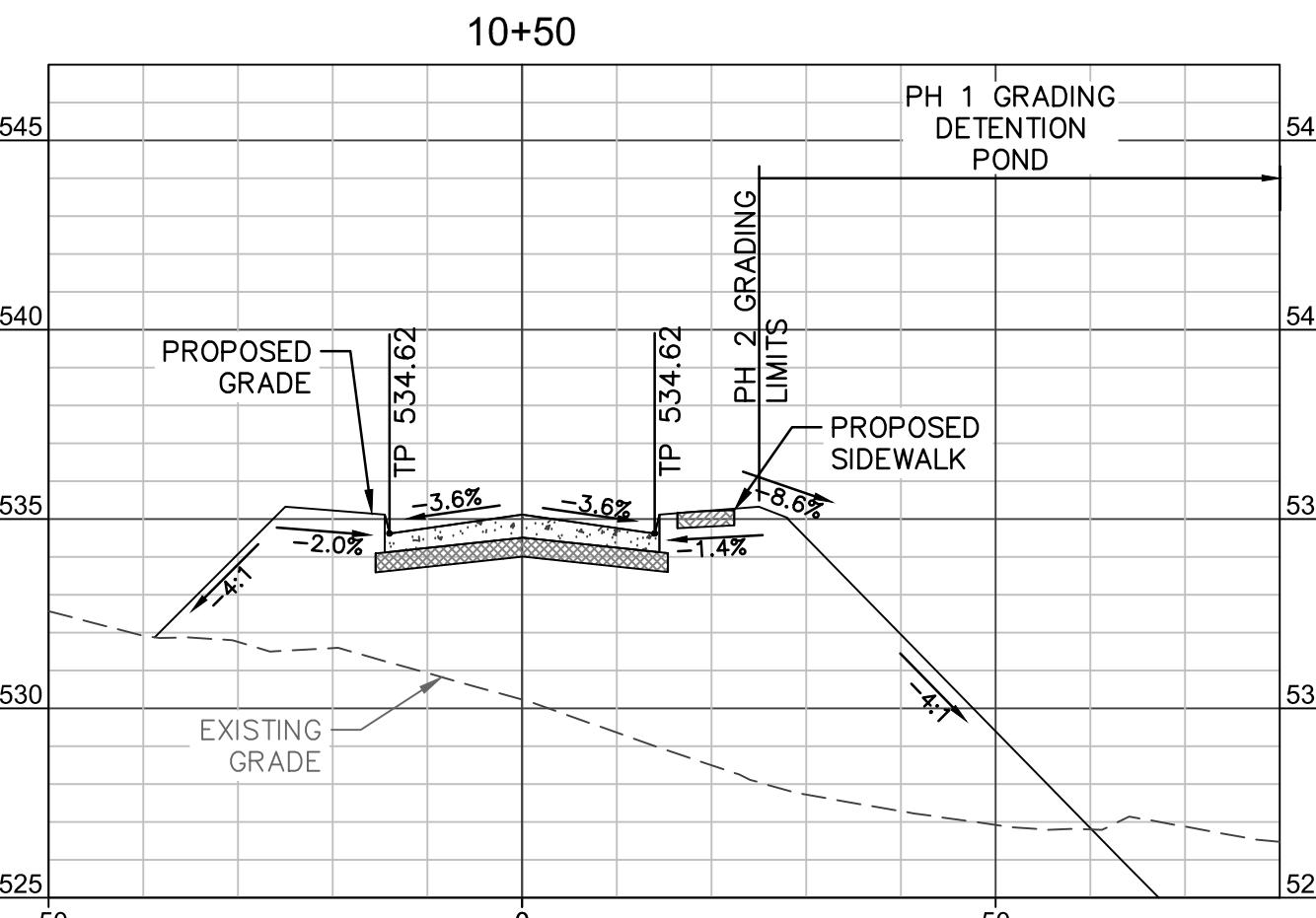
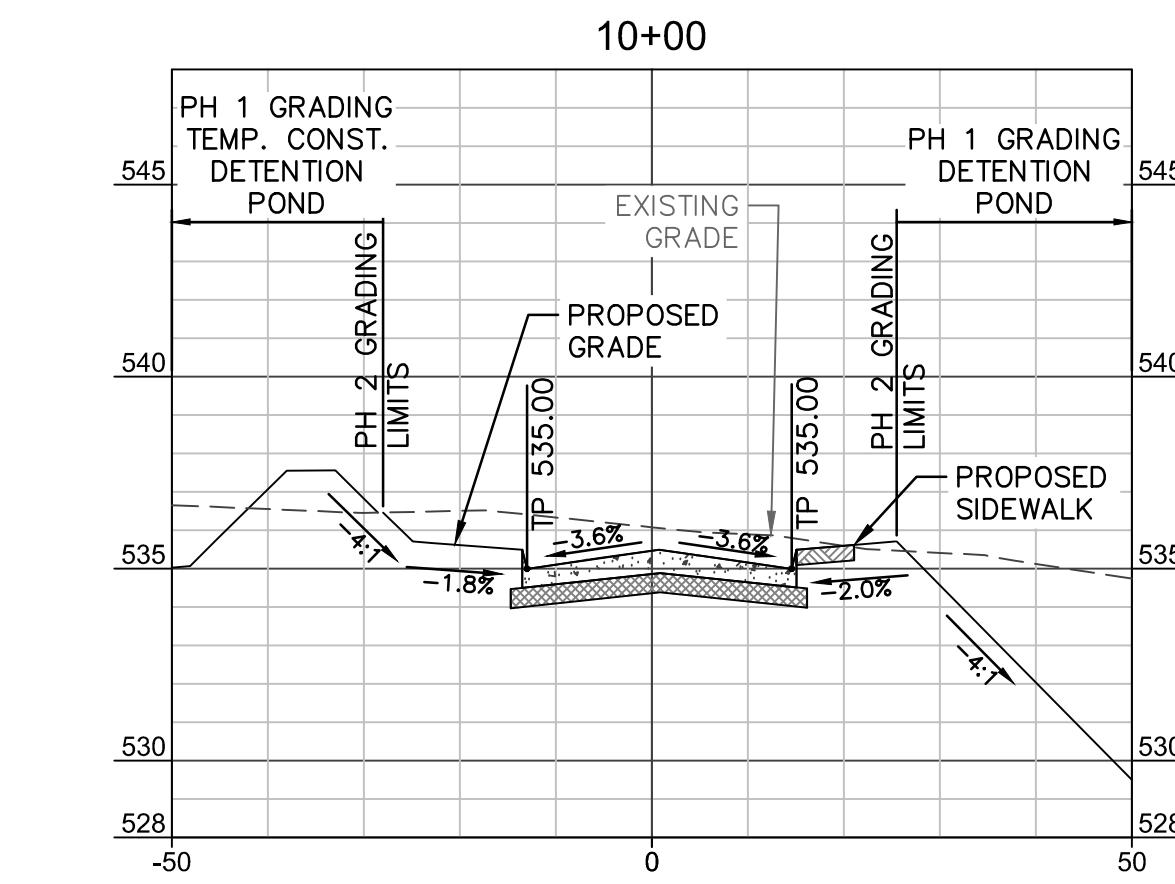
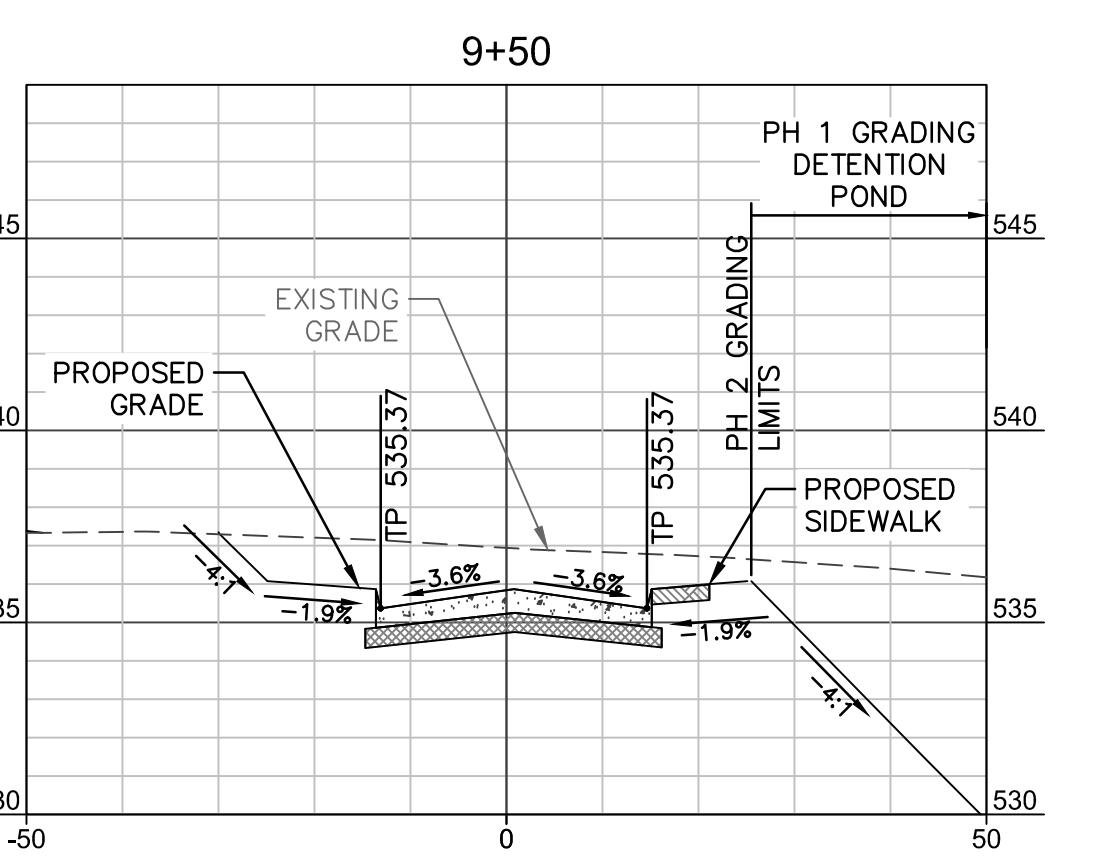
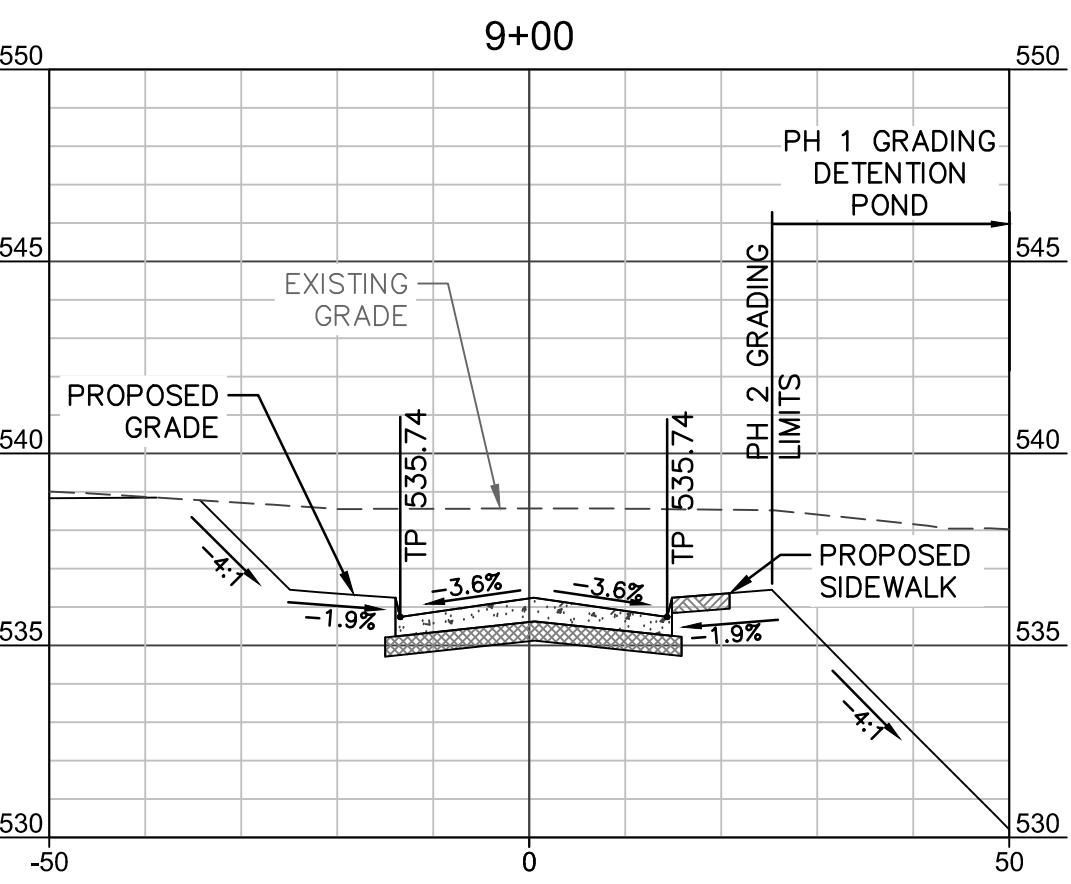
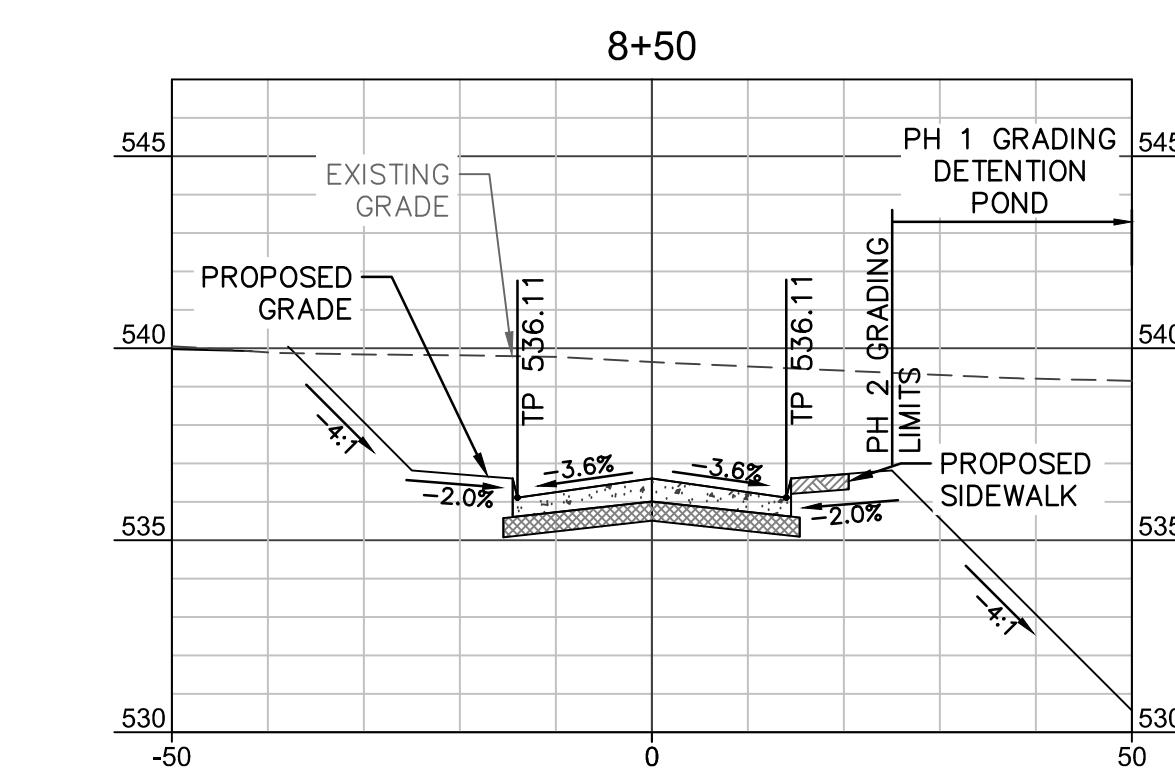
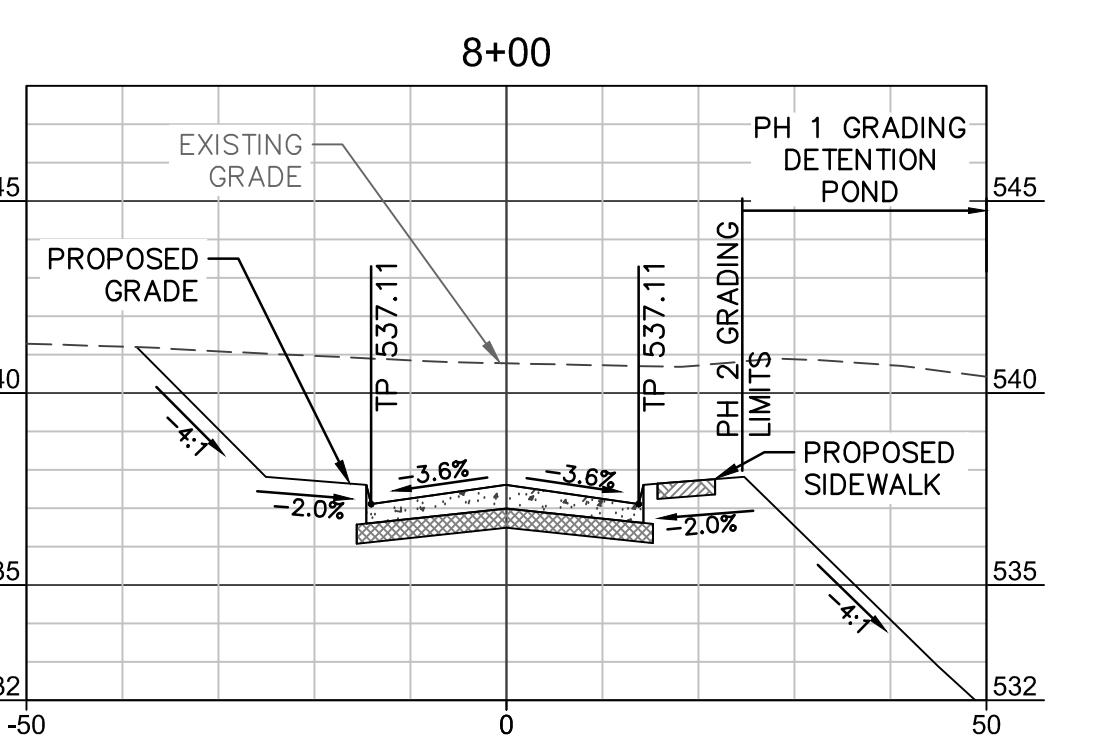
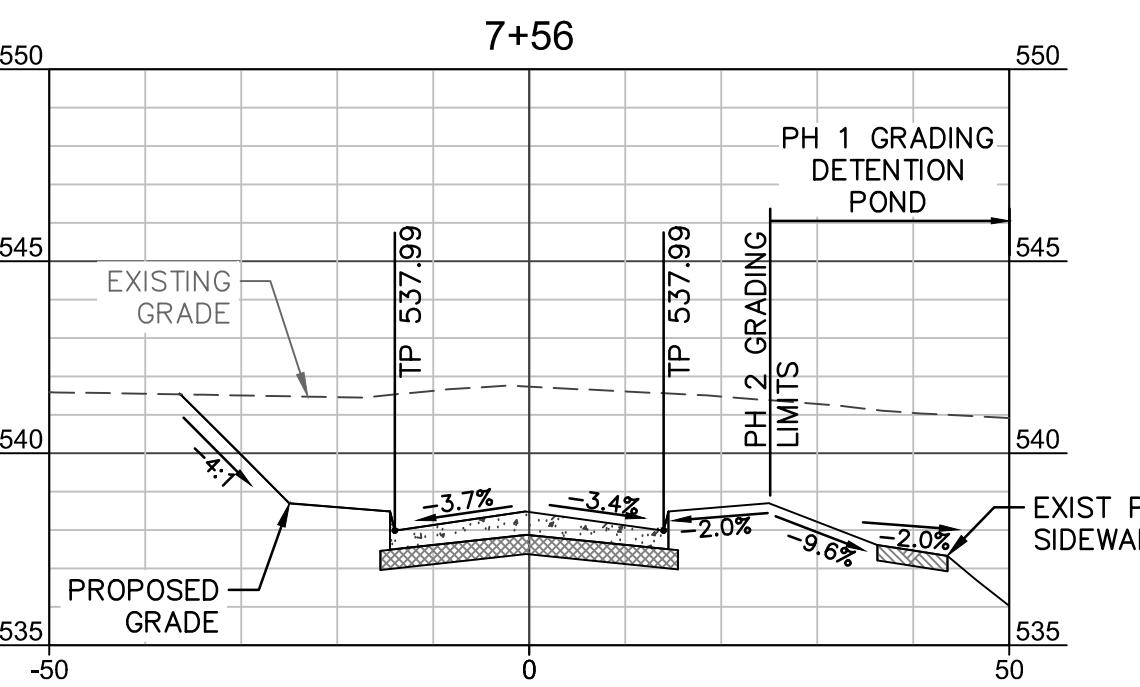
**SUBMITTAL**

SHEET TITLE

**ACCESS DR A CROSS SECTIONS**

CASE# E2023-042  
SHEET NO.

**C5.6-P2**



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**ACCESS DRIVE A - PH 2  
CROSS SECTIONS**

HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE 1"=5'

**LEGEND**

PROPOSED 4 IN CONC SIDEWALK

PROPOSED 6 IN CONC PAVEMENT

PROPOSED 6 IN LIME  
STABILIZED SUBGRADE

**C5.6-P2**



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BY BRIAN PAUL PATRICK, P.E. #80844 ON JANUARY 18,  
2024. ALTERATION OF A SEALED DOCUMENT WITHOUT  
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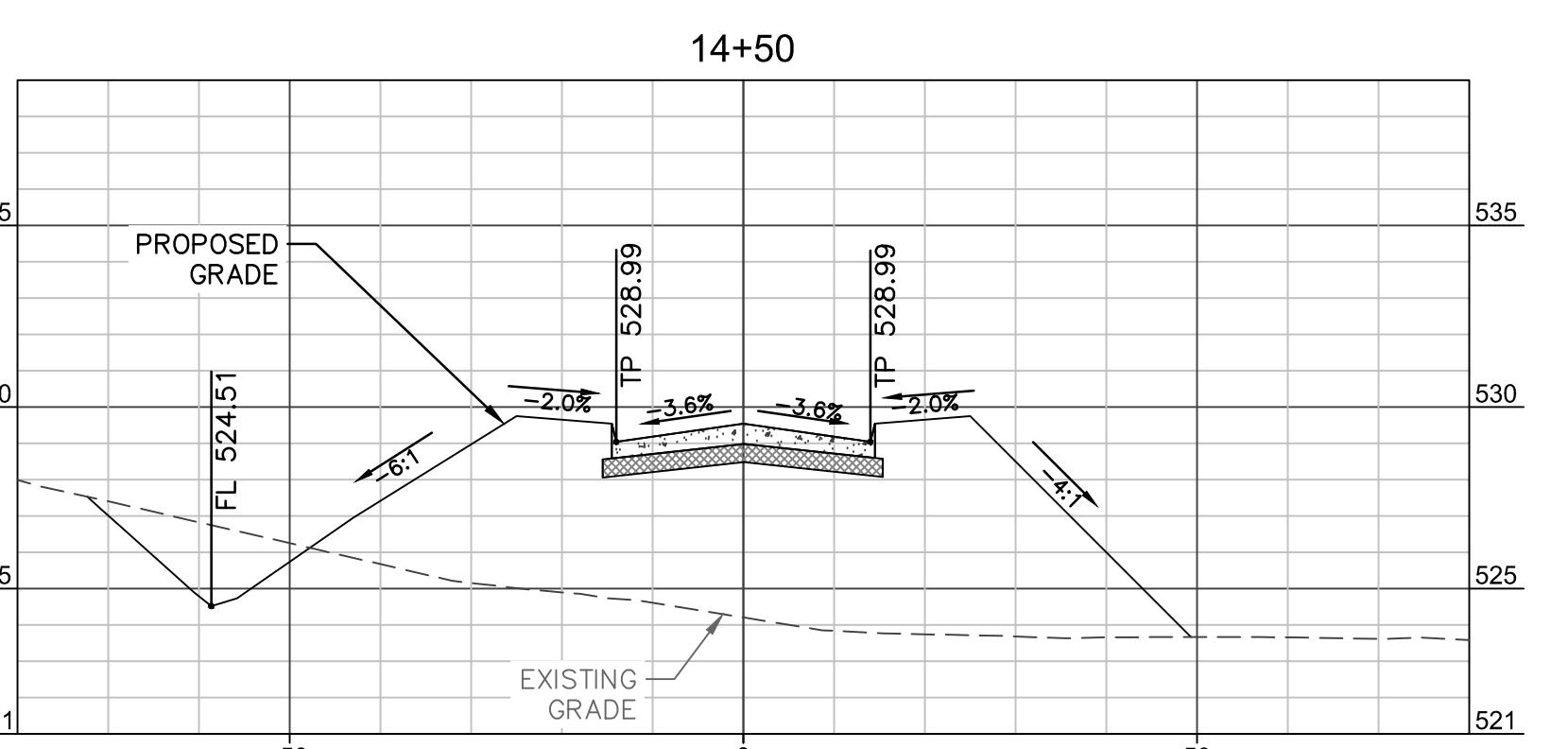
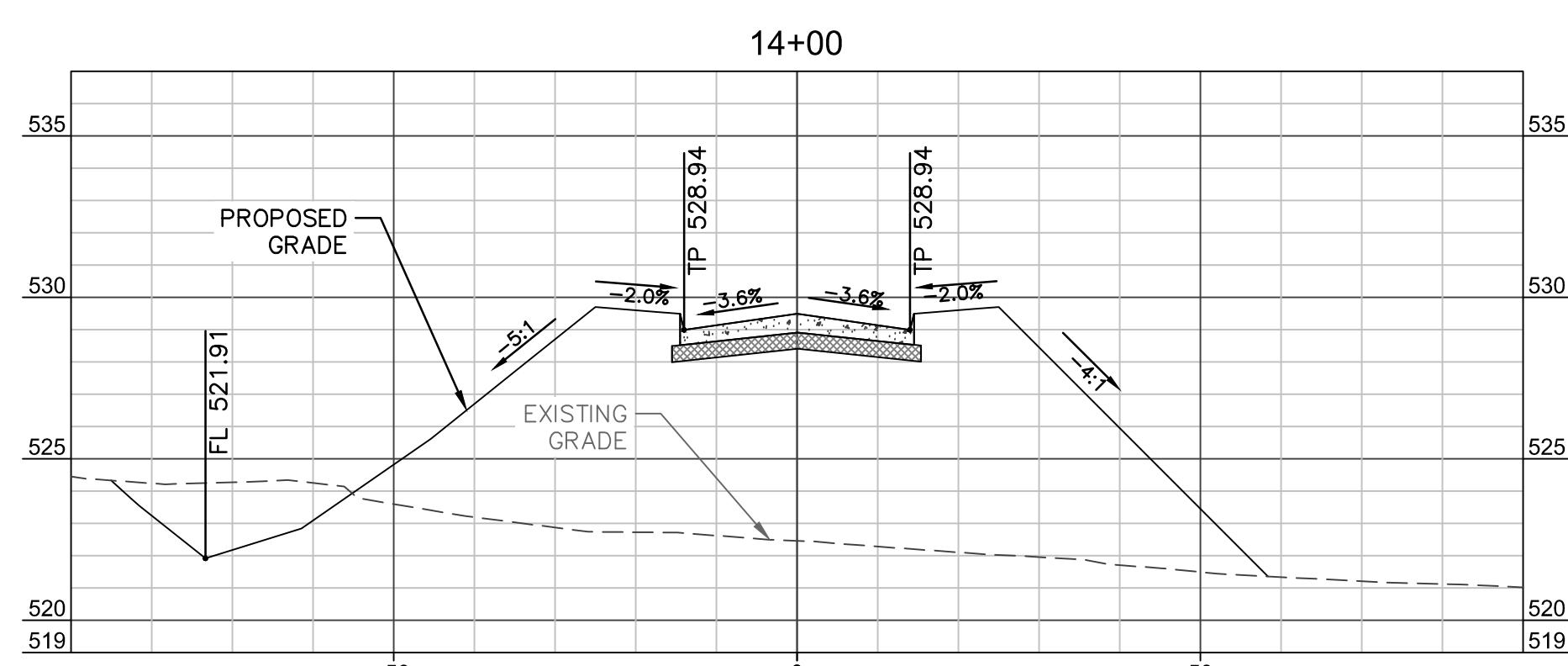
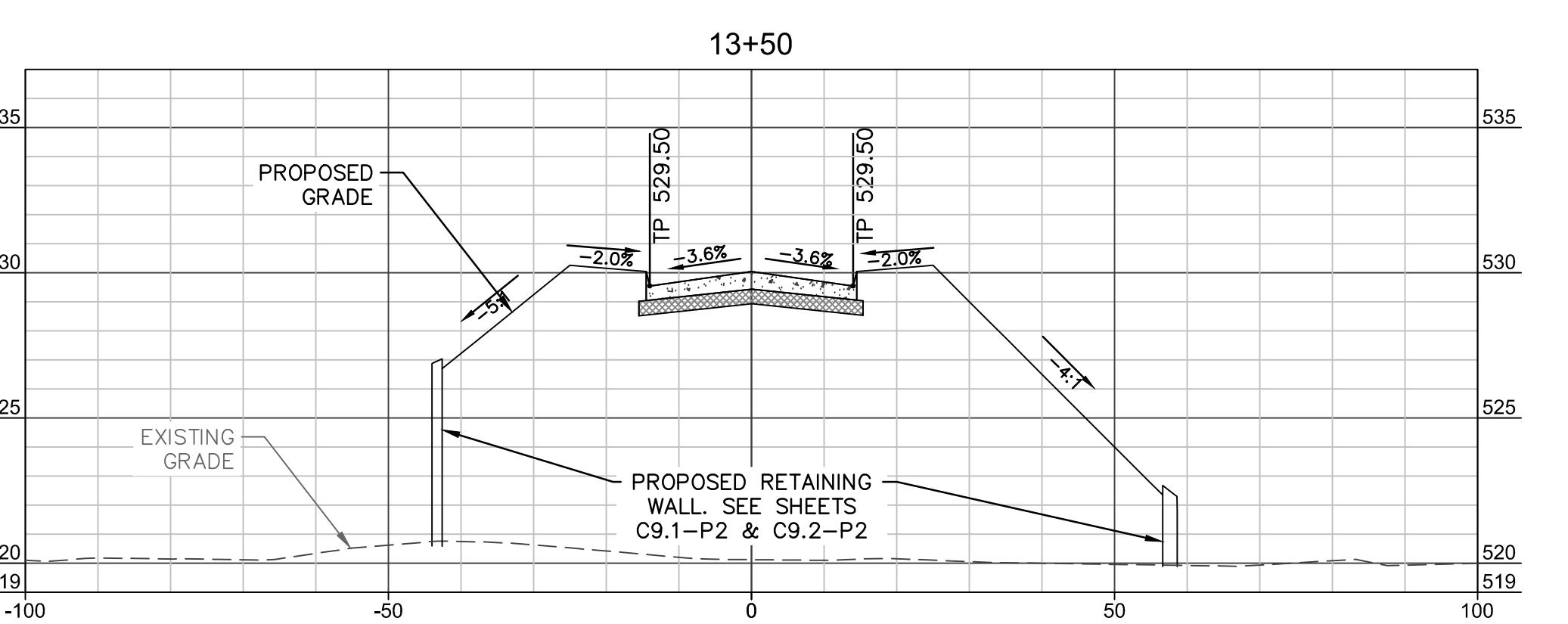
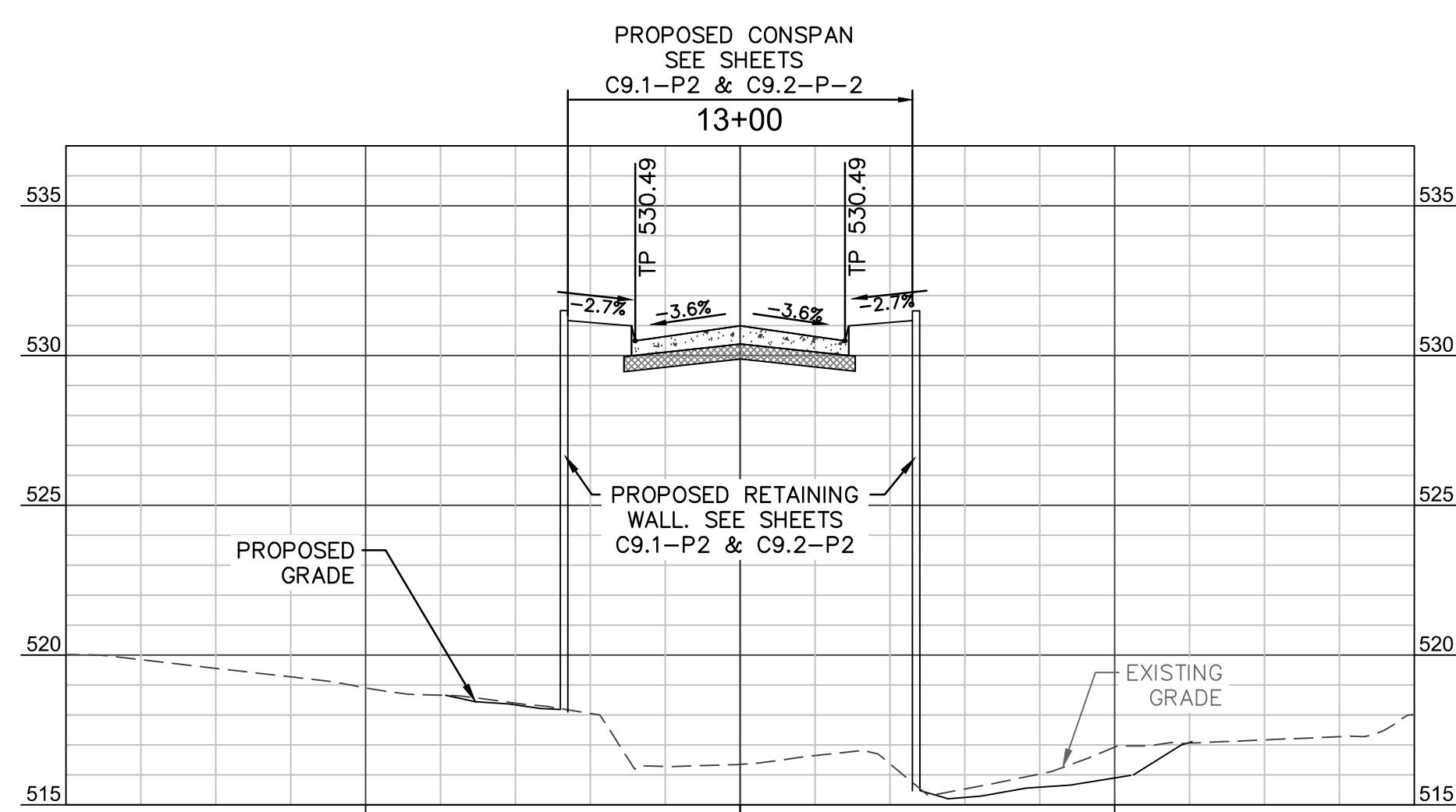
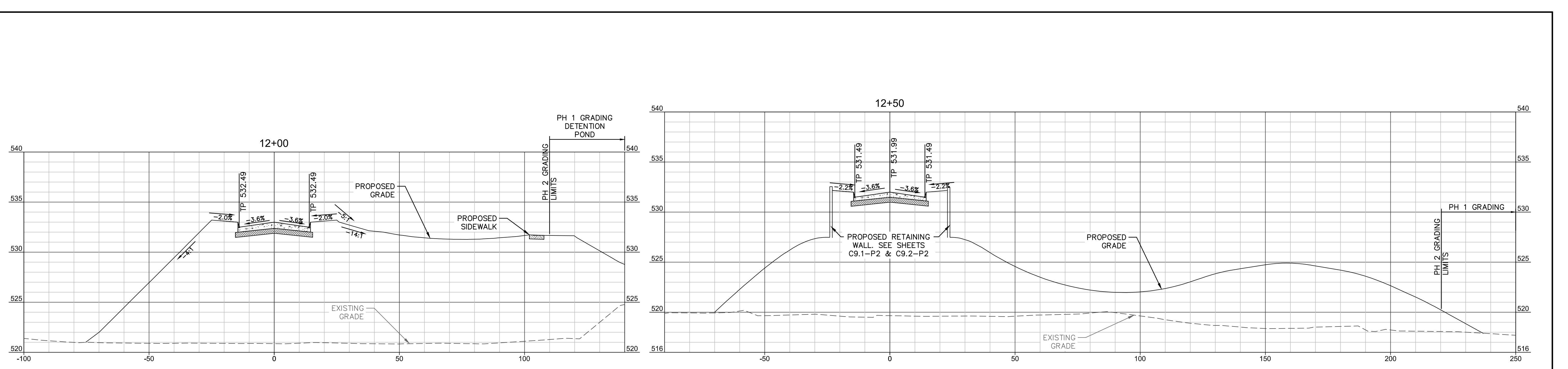
RECORD DRAWING  
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THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS,  
INC. STATES THAT THE PLAN IS AS-BUILT.

11/06/2025  
FRANK A. POLIA, P.E., TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

REVISION NO.	DESCRIPTION	DATE

PROJECT NUMBER	3036.21
DATE	01/18/2024
ISSUE	
NOTE FOR CONSTRUCTION	
SUBMITTAL	

**C5.7-P2**



**NOTE:**  
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**ACCESS DRIVE A - PH 2  
CROSS SECTIONS**

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE 1"=5'

**LEGEND**

- PROPOSED 4 IN CONC SIDEWALK
- PROPOSED 6 IN CONC PAVEMENT
- PROPOSED 6 IN LIME STABILIZED SUBGRADE

**C5.7-P2**



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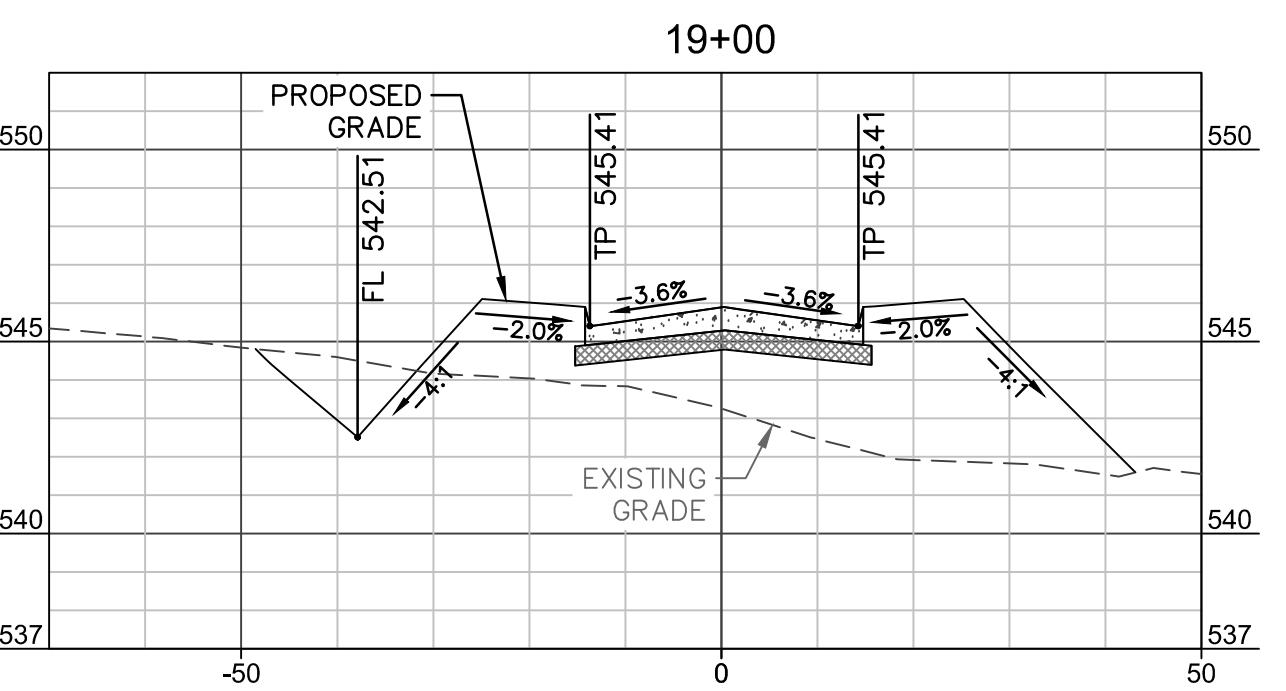
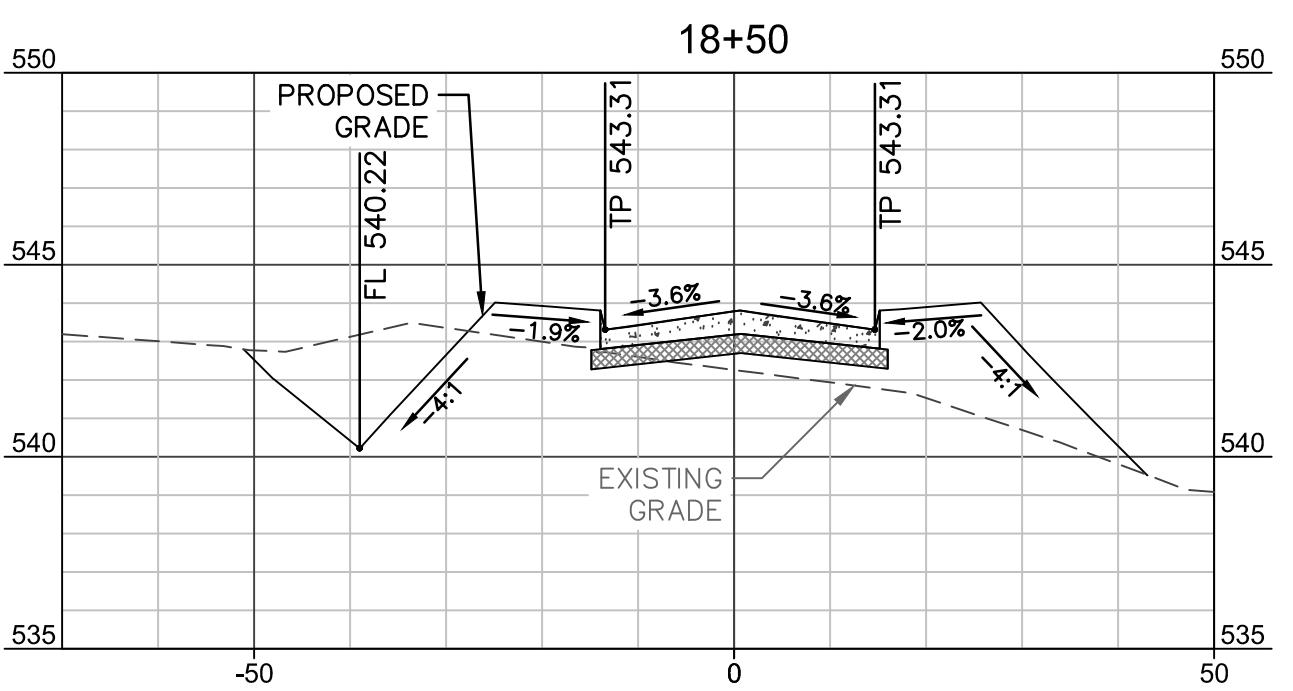
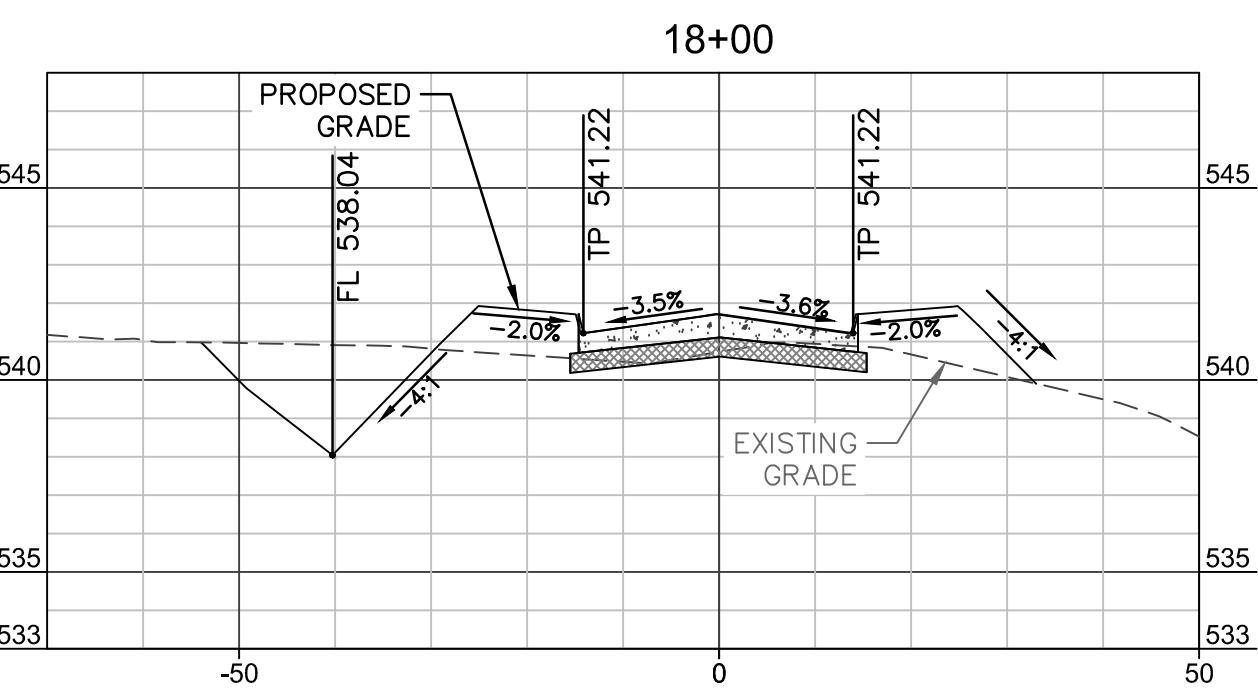
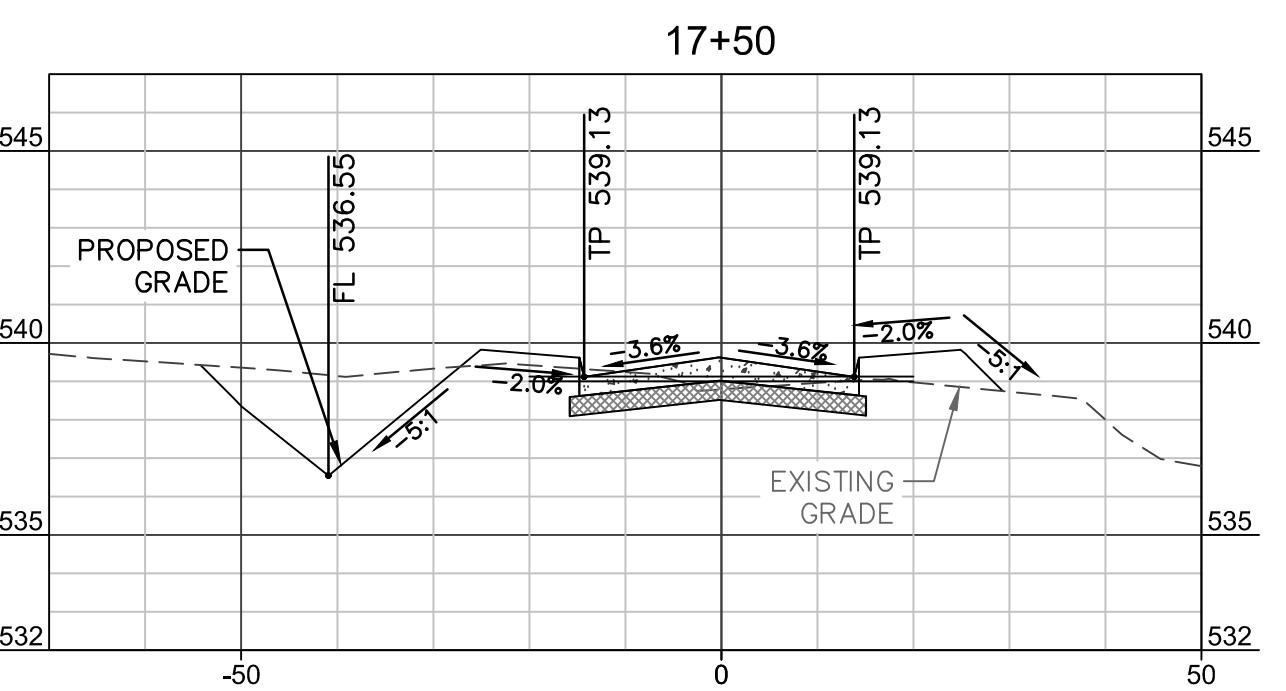
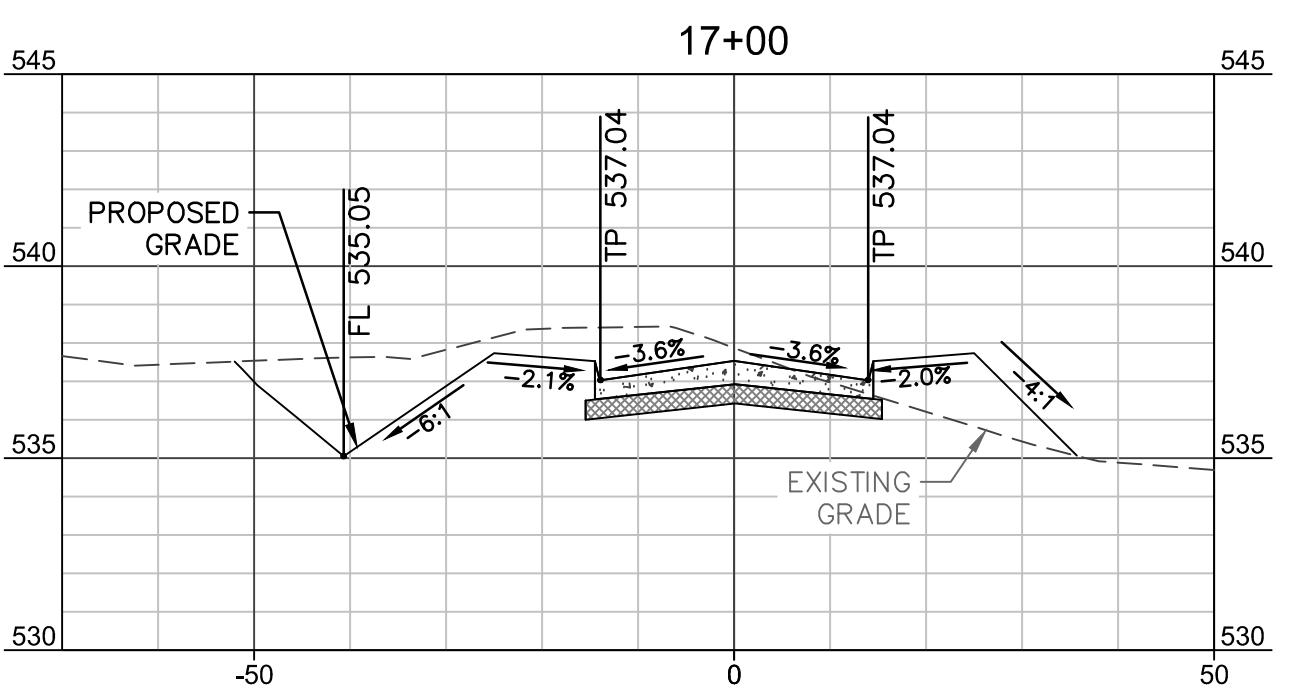
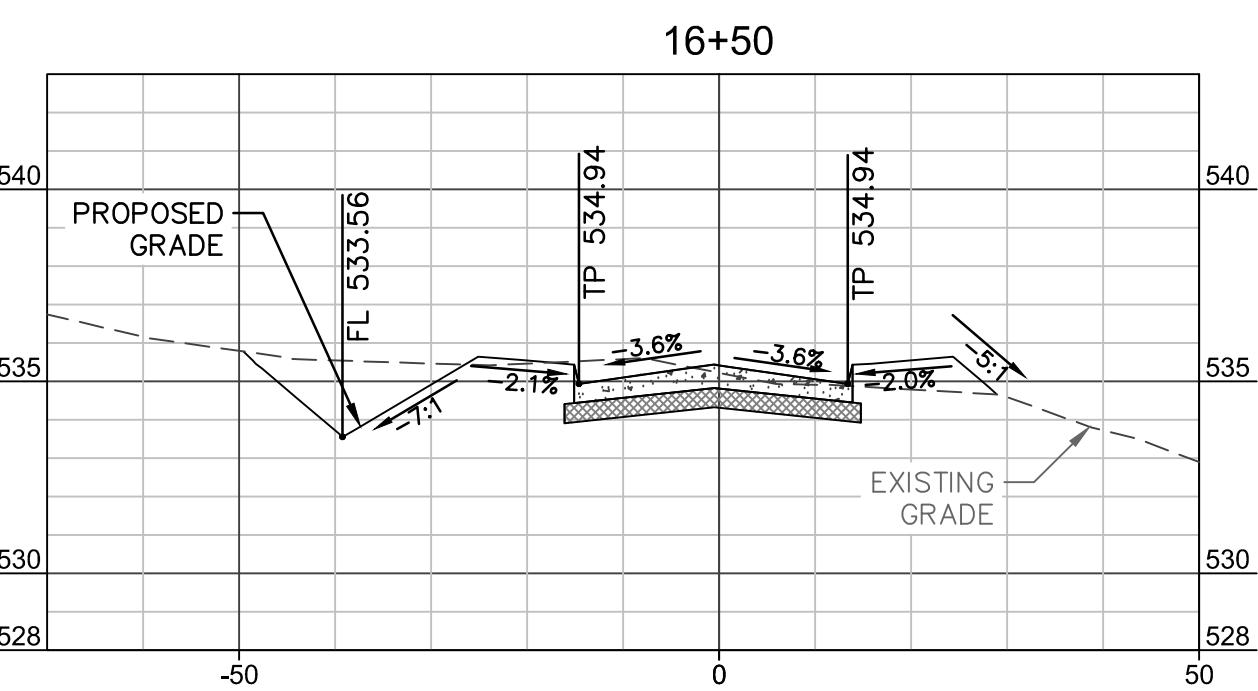
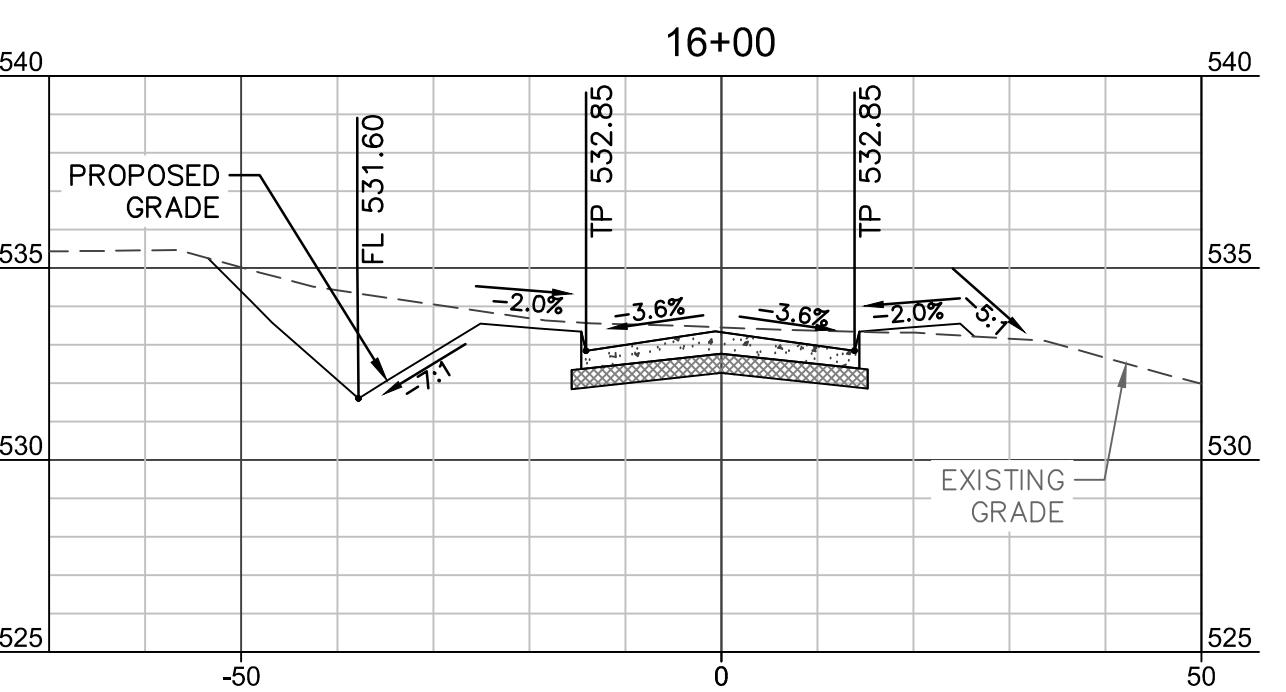
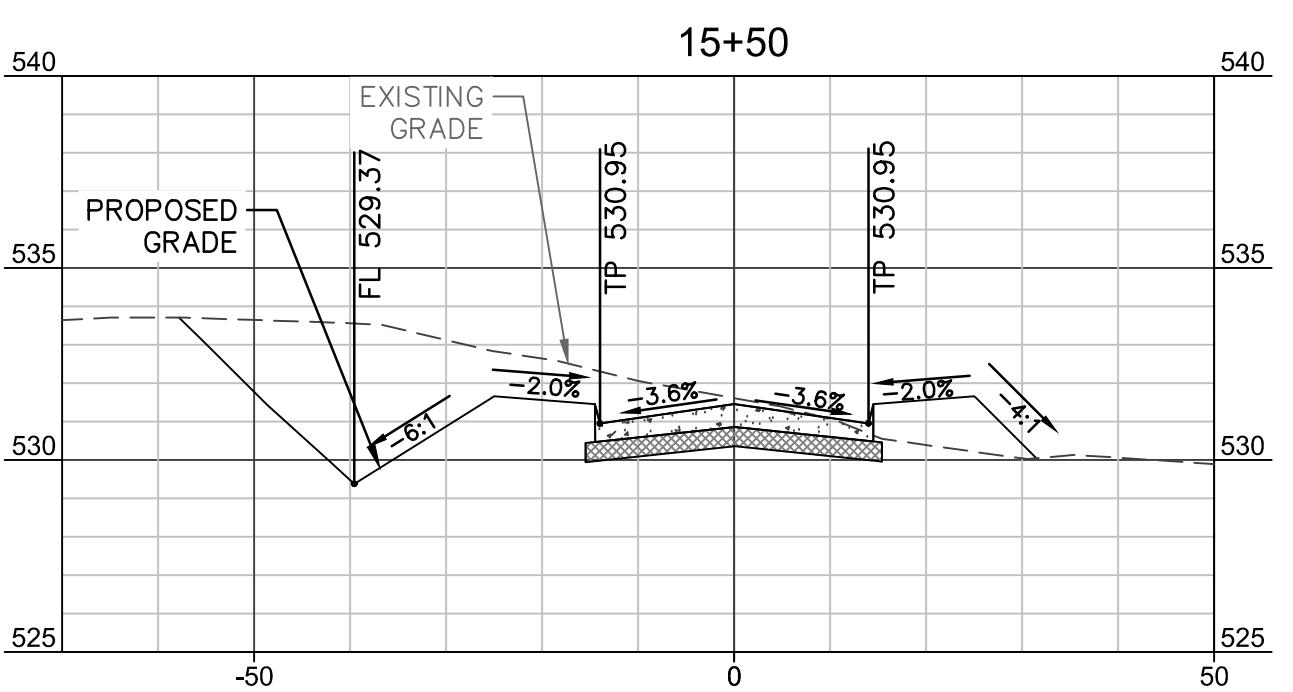
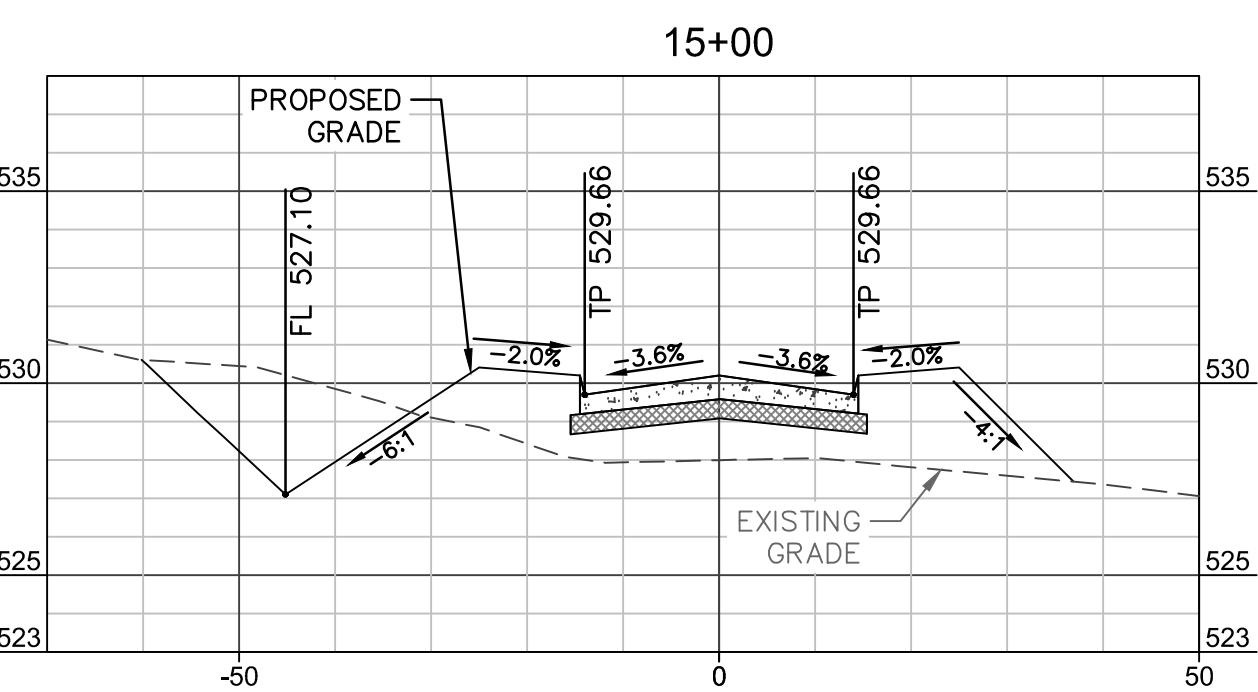
RECORD DRAWING  
NOTE: THIS RECORD DRAWING IS A COMPILATION OF THE ORIGINAL SEALED ENGINEERING DRAWING FOR THIS PROJECT. INFORMATION FURNISHED BY THE CONTRACTOR AND FIELD SURVEY VERIFICATION, TO THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS, INC. STATES THAT THE PLAN IS AS-BUILT.

11/06/2025  
FRANK A. POLIA, P.E. TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

REVISION NO.	DESCRIPTION	DATE

PROJECT NUMBER	3036.21
DATE	01/18/2024
ISSUE	
<b>ISSUE FOR CONSTRUCTION</b>	
<b>SUBMITTAL</b>	
SHEET TITLE	
<b>ACCESS DR A CROSS SECTIONS</b>	
CASE# E2023-042	
SHEET NO.	

C5.8-P2



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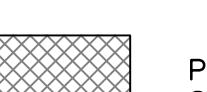
**ACCESS DRIVE A - PH 2**  
**CROSS SECTIONS**

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE 1"=5'

**LEGEND**



PROPOSED 6 IN CONC PAVEMENT

PROPOSED 6 IN LIME  
STABILIZED SUBGRADE



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R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

REVISION NO.	DESCRIPTION	DATE

PROJECT NUMBER  
**3036.21**

DATE  
**01/18/2024**

ISSUE

ISSUE FOR CONSTRUCTION

**SUBMITTAL**

SHEET TITLE

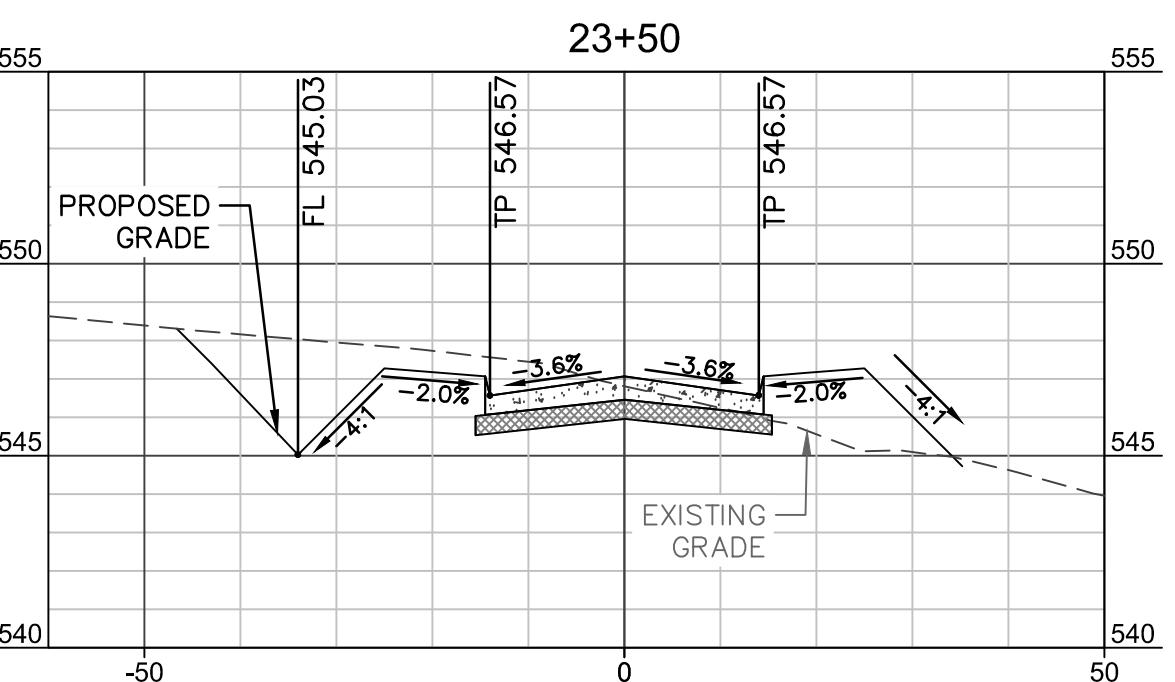
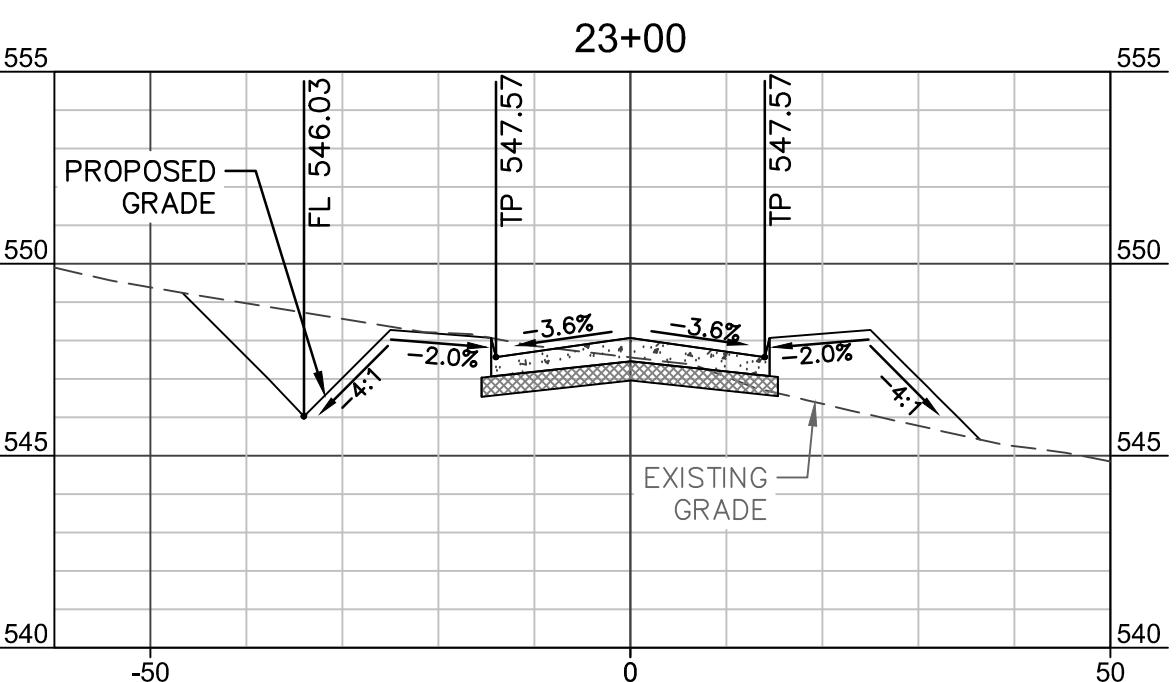
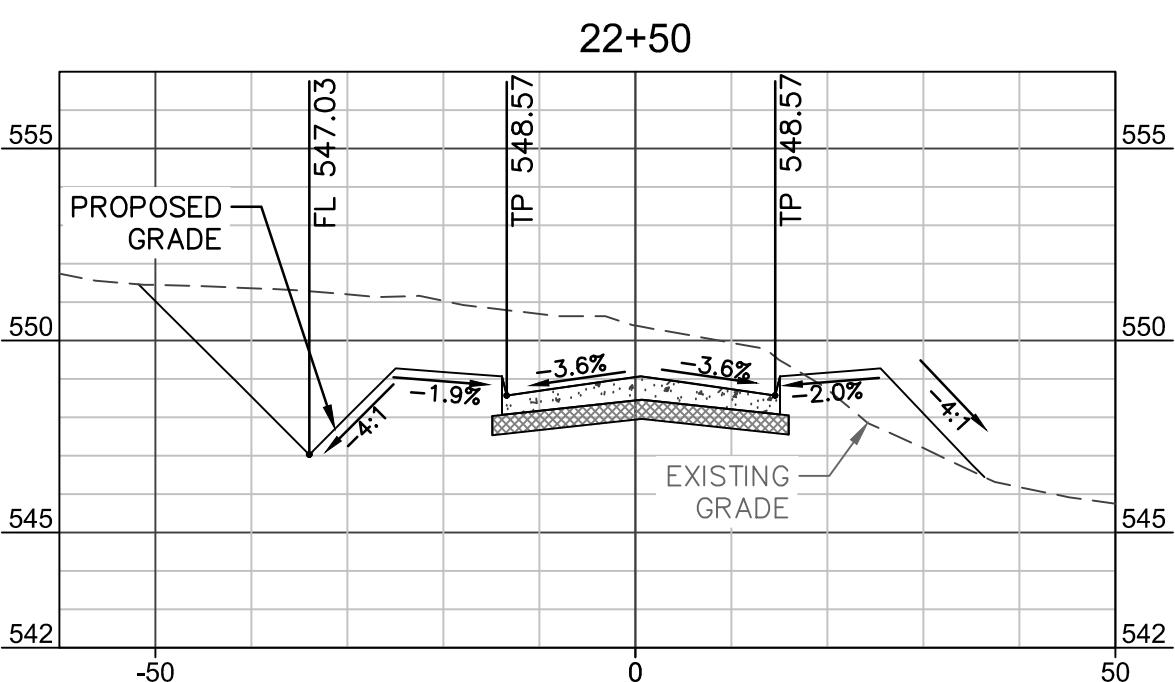
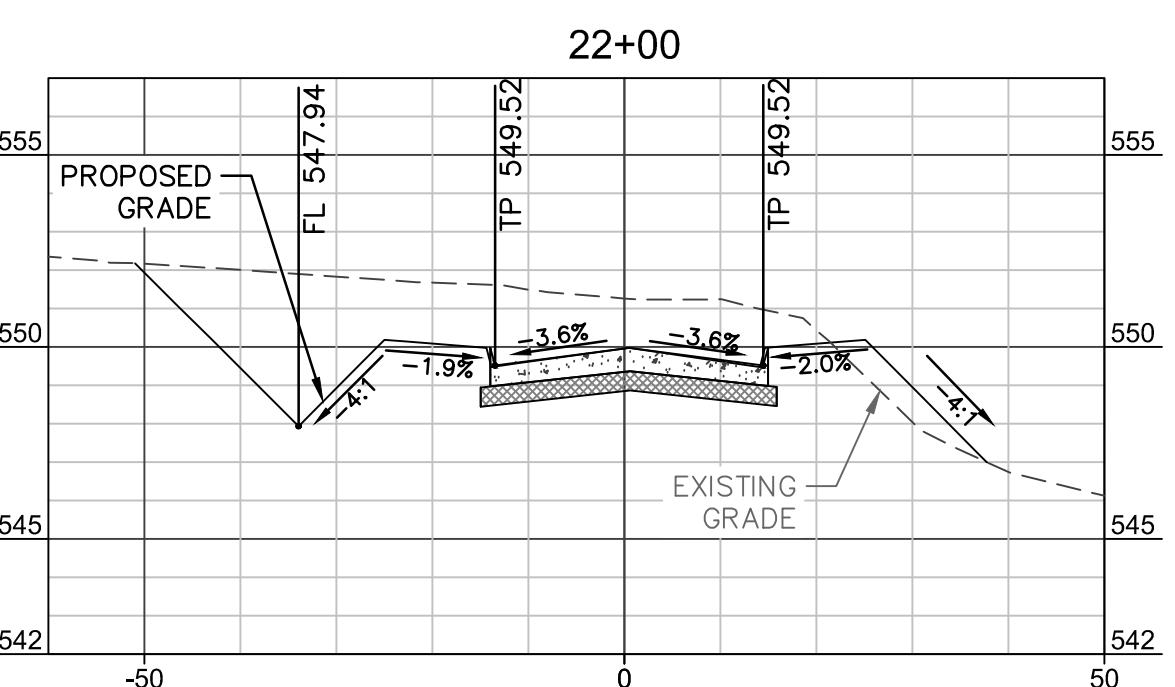
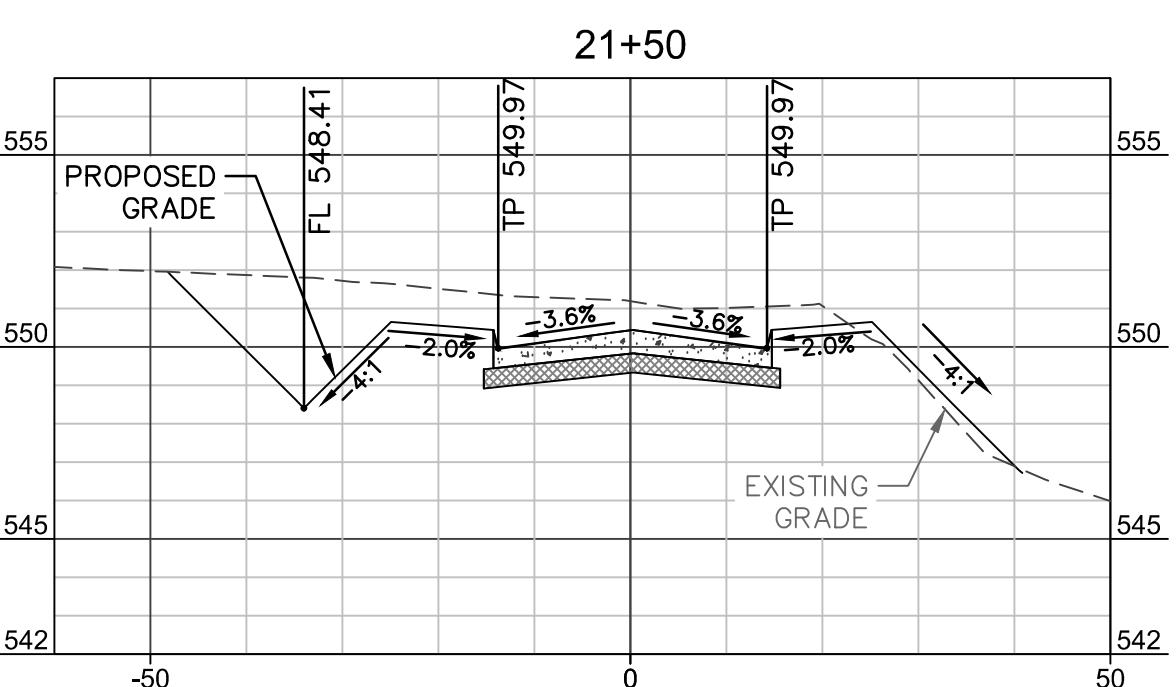
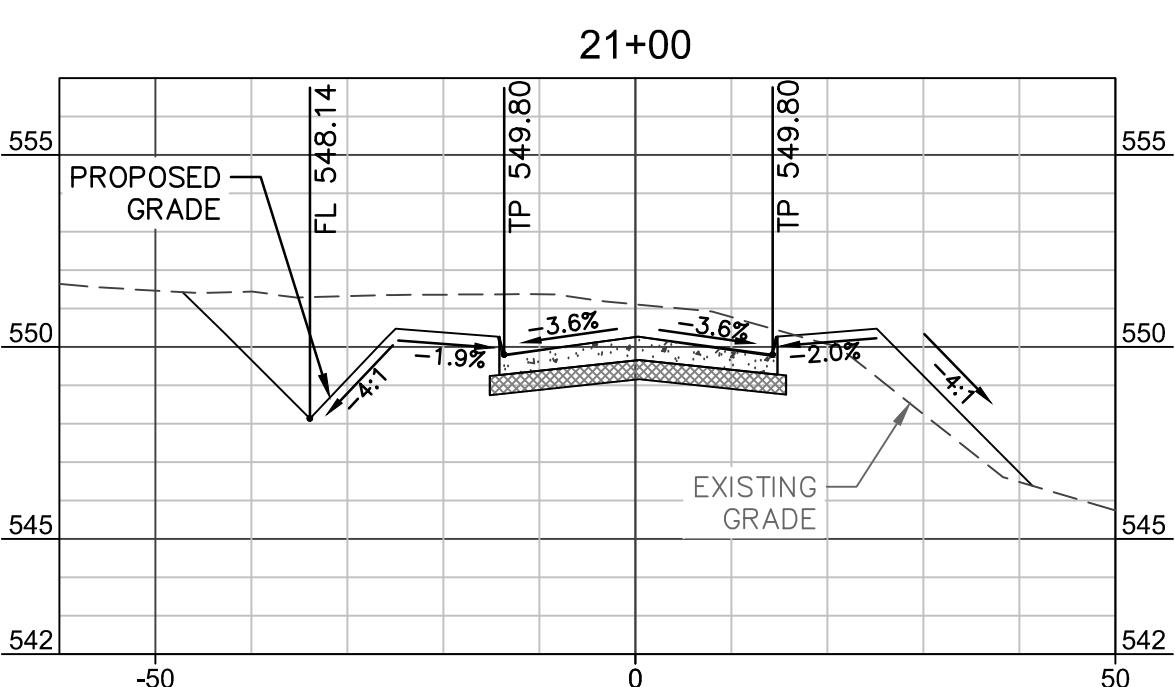
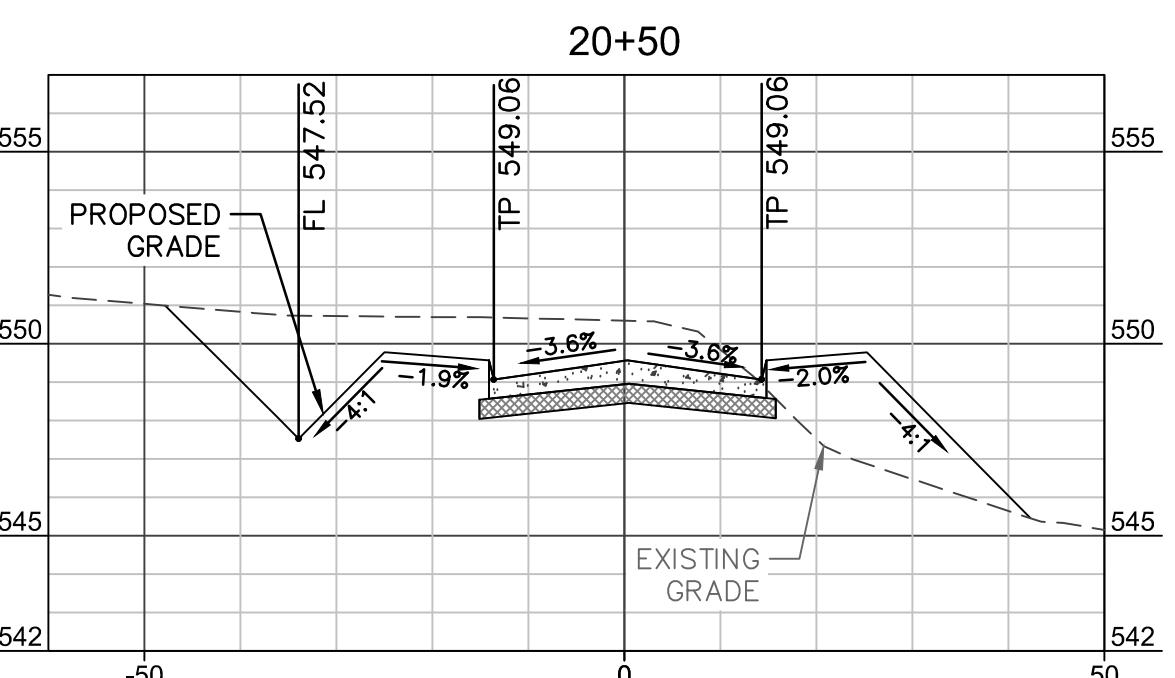
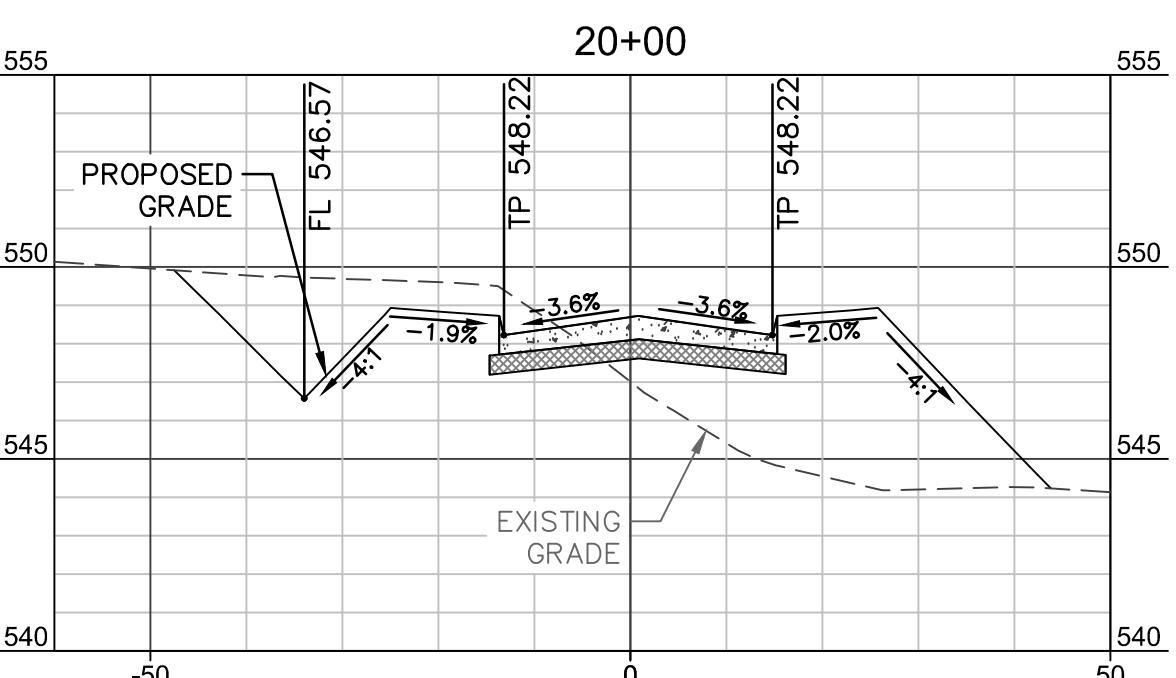
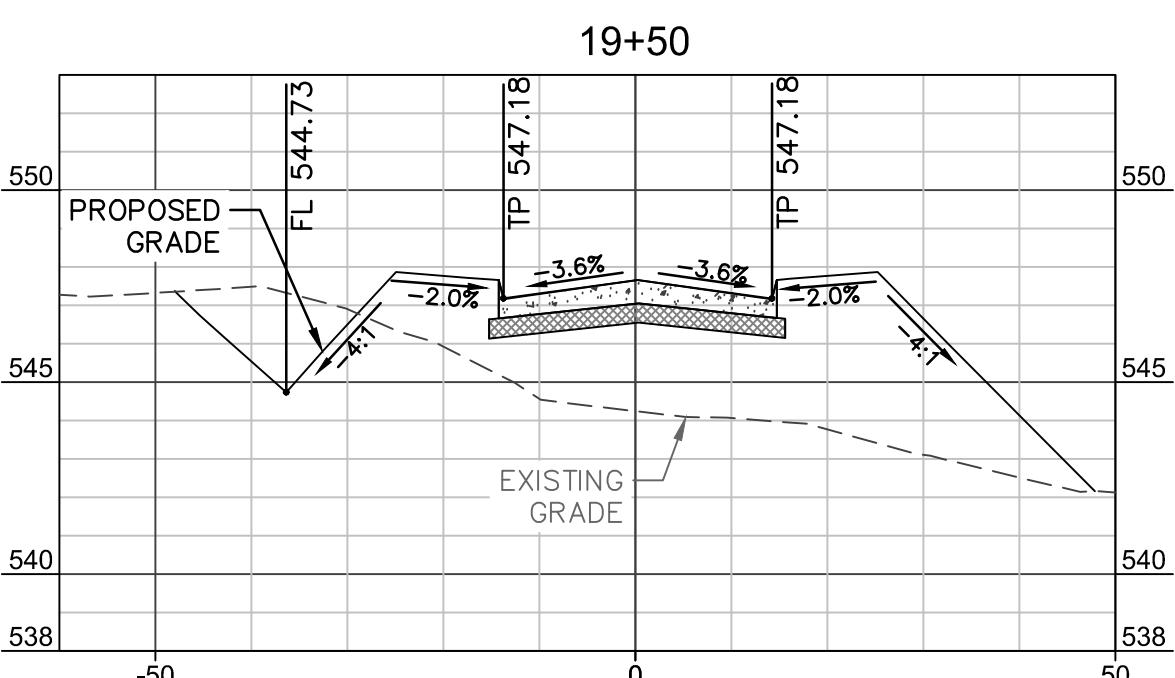
**ACCESS DR A CROSS**

**SECTIONS**

CASE# E2023-042

SHEET NO.

**C5.9-P2**

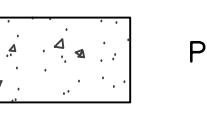


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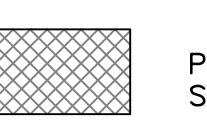
**ACCESS DRIVE A - PH 2**  
**CROSS SECTIONS**

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE 1"=5'

**LEGEND**



PROPOSED 6 IN CONC PAVEMENT



PROPOSED 6 IN LIME  
STABILIZED SUBGRADE

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THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS,  
CERTIFY THAT THE DRAWING IS AS BUILT.

*Signature* 11/0  
.. POLMA, P.E. TX #80274  
ENGINEERS, INC.  
R.N. NO. E 001515

JECT NUMBER  
**036.21**  
TE  
**1/18/2024**

**SUE FOR CONSTRUCTION  
SUBMITTAL  
HEET TITLE  
CESS DR A CROSS  
ECTIONS  
ASE# E2023-042**

## C5.10-P2

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# ACCESS DRIVE A - PH 2

## CROSS SECTIONS

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE 1"=5'

HORIZONTAL SCALE: 1'-20'  
VERTICAL SCALE: 1"=5'

VERTICAL SCALE 1 = 5

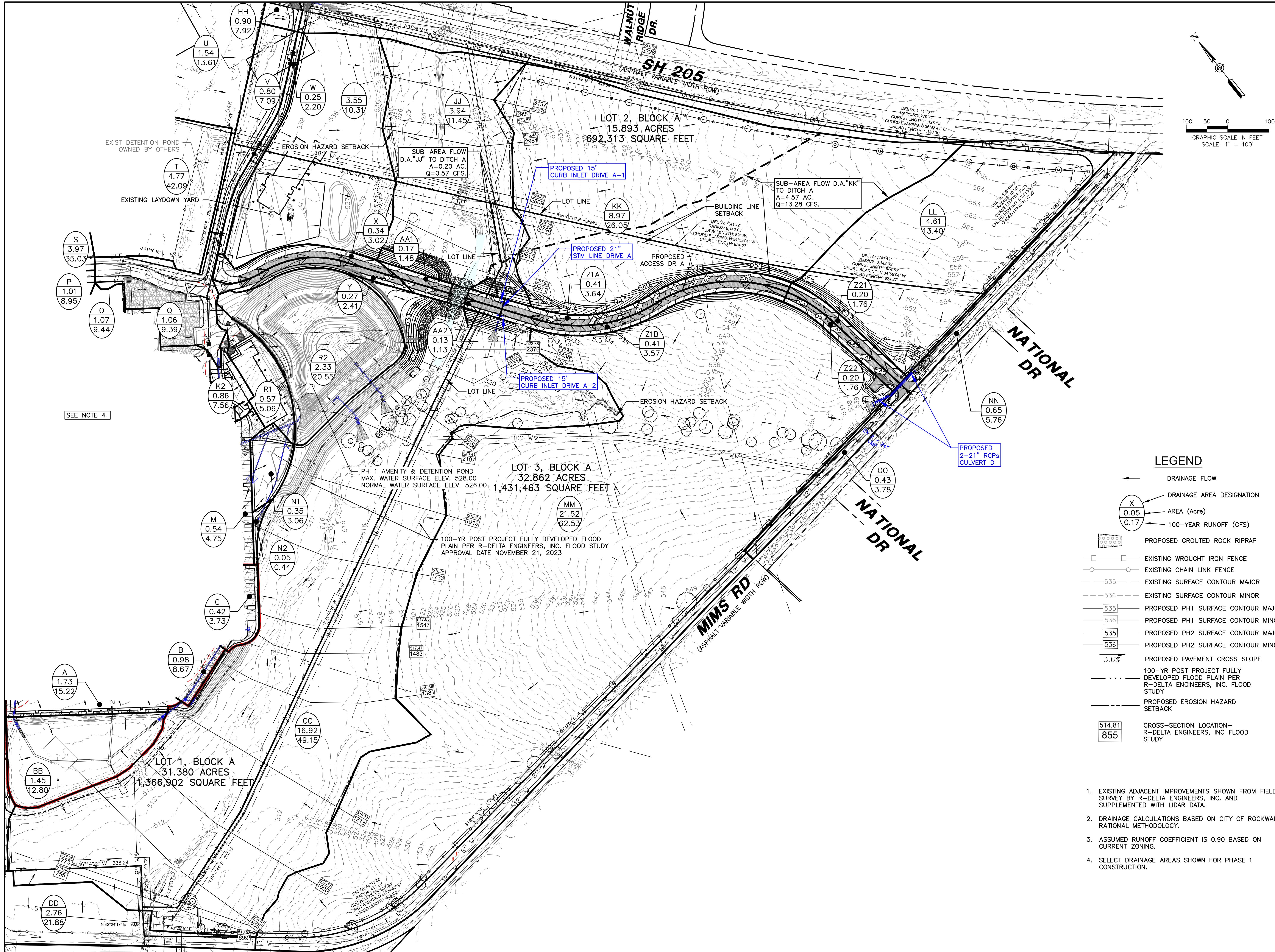
FGFND

## PROPOSED 6 IN CONC PAVEMENT

**PROPOSED 6 IN LIME  
STABILIZED SUBGRADE**

POSED 6 IN LIME

## BILIZED SUBGRADE



POST-DEVELOPMENT HYDRAULIC CALCULATIONS

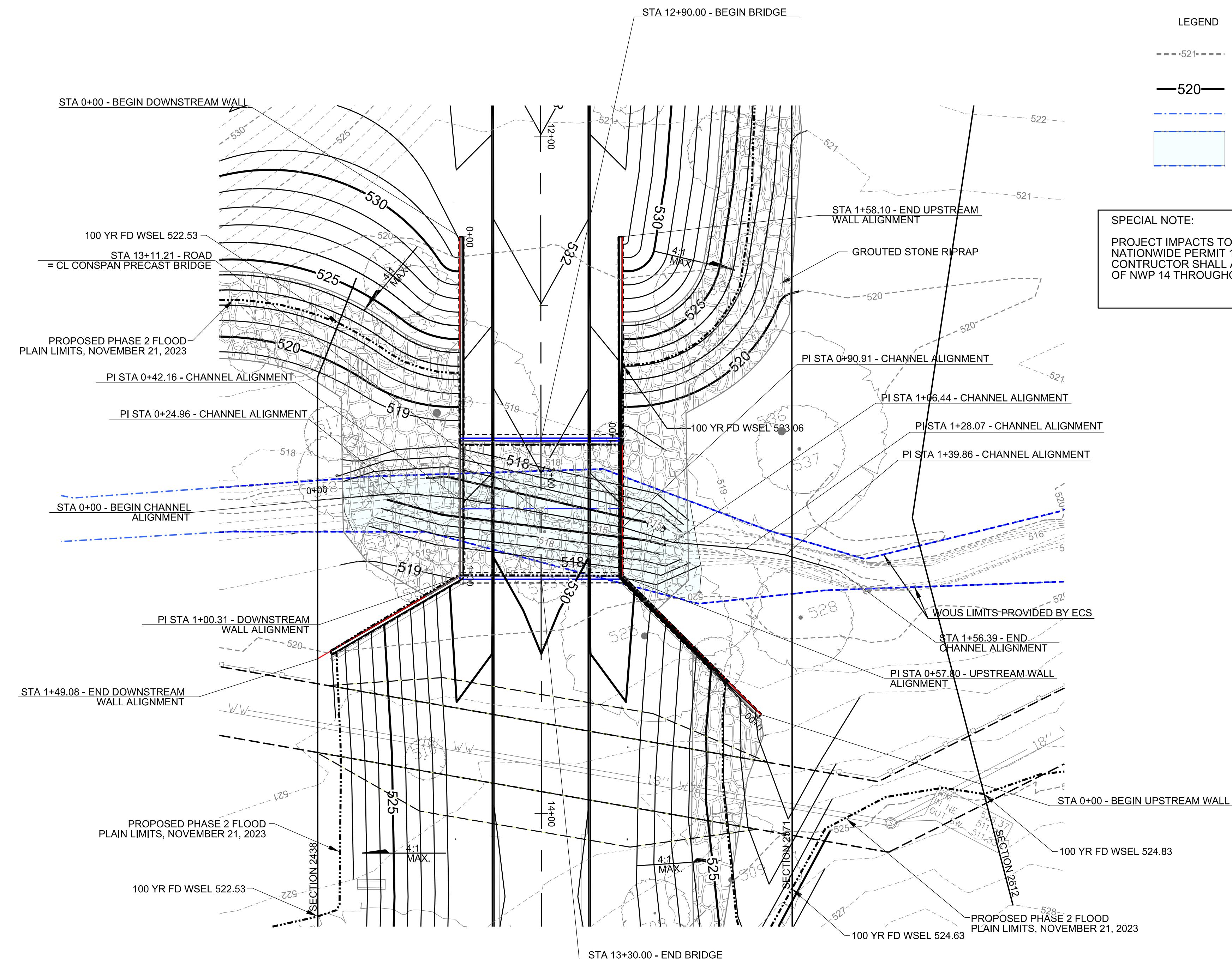
HYDROLOGIC CALCULATIONS - POST PROJECT CONDITIONS

DRAINAGE AREA ID	AREA (ACRES) "A"	TIME (MIN.)	RUN-OFF COEF. "C"	100-YR INTENSITY (IPH) "I"	Q100=CIA(CFS)	COMMENT
A	1.73	10	0.90	9.80	15.22	FLOW TO ON-SITE EXIST DETENTION POND
B	0.98	10	0.90	9.80	8.67	TO EXIST DETENTION POND
C	0.42	10	0.90	9.80	3.73	FLOW TO PROP 20' CURB INLET
D	1.37	10	0.90	9.80	12.05	TO EXIST DETENTION POND
E	0.97	10	0.90	9.80	8.56	FLOW TO EXIST CURB INLET
F1	0.71	10	0.90	9.80	6.26	TO EXIST DETENTION POND
F2	0.06	10	0.90	9.80	0.57	FLOW TO PROP SLOTTED DRAIN
G	0.43	10	0.90	9.80	3.75	TO EXIST DETENTION POND
H	0.57	10	0.90	9.80	4.99	FLOW TO PROP 20' CURB INLET
I	0.79	10	0.90	9.80	6.95	TO PH1 DETENTION POND
J1	0.32	10	0.90	9.80	2.81	FLOW TO PROP AREA DRAIN
J2	0.35	10	0.90	9.80	3.07	TO PH1 DETENTION POND
K1	1.06	10	0.90	9.80	9.35	FLOW TO PROP 10' CURB INLET
K2	0.86	10	0.90	9.80	7.56	TO PH1 DETENTION POND
K3	0.08	10	0.90	9.80	0.72	FLOW TO PROP 15' CURB INLET
L	0.11	10	0.90	9.80	0.99	TO PH1 DETENTION POND
M	0.54	10	0.90	9.80	4.75	FLOW TO PROP 10' CURB INLET
N1	0.35	10	0.90	9.80	3.06	TO PH1 DETENTION POND
N2	0.05	10	0.90	9.80	0.44	FLOW TO PROP AREA DRAINS
O	1.10	10	0.90	9.80	9.66	TO PH1 DETENTION POND
P	1.01	10	0.90	9.80	8.95	FLOW TO PROP STREET CULVERT
Q	1.06	10	0.90	9.80	9.39	TO SIDS BYPASS
R1	0.57	10	0.90	9.80	5.06	FLOW TO PROP AREA DRAINS
R2	2.33	10	0.90	9.80	20.55	TO PH1 DETENTION POND
S	3.97	10	0.90	9.80	35.03	PROP RETENTION POND
T	4.77	10	0.90	9.80	42.09	TO PROPOSED DETENTION POND
U	1.54	10	0.90	9.80	13.61	FLOW TO PROP STREET CULVERT
V	0.80	10	0.90	9.80	7.09	SIDS BYPASS
W	0.25	10	0.90	9.80	2.20	FLOW SOUTH TO FLOODPLAIN
X	0.34	10	0.90	9.80	3.02	TO FLOODPLAIN
Y	0.27	10	0.90	9.80	2.41	FLOW TO 15 FT CURB INLET ON ACCESS DR A
Z1A	0.41	10	0.90	9.80	3.64	FLOW TO 15 FT CURB INLET ON ACCESS DR A
Z1B	0.41	10	0.90	9.80	3.57	TO FLOODPLAIN
Z2A	0.20	10	0.90	9.80	1.76	FLOW TO BOX CULVERT ON "MIMS ROAD"
Z2B	0.20	10	0.90	9.80	1.76	TO FLOODPLAIN
AA1	0.17	10	0.90	9.80	1.48	FLOW SOUTH TO EXIST FLOODWAY
AA2	0.13	10	0.90	9.80	1.13	TO FLOODPLAIN
BB	1.45	10	0.90	9.80	12.80	EXIST ONSITE DETENTION POND
CC	16.92	20	0.35	8.30	49.15	TO FLOODPLAIN
DD	2.76	10	0.90	9.80	21.88	FLOW EAST TO BOX CULVERT ON "MIMS RD"
EE	0.28	10	0.90	9.80	2.46	SIDS BYPASS
FF	0.77	10	0.90	9.80	6.80	FLOW TO PROP STREET CULVERT IN SIDS RD
GG	0.44	10	0.90	9.80	3.86	SIDS BYPASS
HH	0.90	10	0.90	9.80	7.92	FLOW TO PROP STREET CULVERT IN SH 205
II	3.55	20	0.35	8.30	10.31	SH 205
JJ	3.94	20	0.35	8.30	11.45	FLOW SOUTH TO EXIST FLOODWAY
KK	8.97	20	0.35	8.30	26.05	BYPASS TO FLOODPLAIN
LL	4.61	20	0.35	8.30	13.40	FLOW NORTH VIA DITCH A TO EXIST FLOODWAY
MM	21.52	20	0.35	8.30	62.52	BYPASS TO FLOODPLAIN
NN	0.65	10	0.90	9.80	5.76	FLOW NORTH TO EXIST FLOODWAY
OO	0.43	10	0.90	9.80	3.78	BYPASS TO FLOODPLAIN
TOTALS	98.47	-	-	-	514.00	BYPASS TO FLOODPLAIN

\* SHADED AREAS REFLECT NO  
CHANGE TO DRAINAGE  
NUMBERS AND CALCULATIONS  
FOR PHASE 2

PHASE 2  
CALCULATIONS

ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.



**LEGEND**

- 521--- POST PHASE 1 EXISTING CONTOUR
- 520— PROPOSED PHASE 2 CONTOUR
- - - - - LIMITS OF WOUS PER ECS REPORT
- AREA OF POTENTIAL WOUS IMPACT 2533 SQ. FT. (0.06 ACRES)

HORIZONTAL ALIGNMENT DATA - CHANNEL			
STA	NORTHING	EASTING	DESCRIPTION
0+00	7014846.39	2599725.44	POB
0+24.96	7014859.69	2599746.55	PI - RT
0+42.16	7014866.18	2599762.49	PI - RT
0+90.91	7014880.73	2599809.02	PI - RT
1+06.44	7014883.60	2599824.28	PI - LT
1+28.07	7014891.92	2599844.24	PI - RT
1+39.86	7014895.56	2599855.47	PI - RT
1+56.39	7014898.75	2599871.68	POE

HORIZONTAL ALIGNMENT DATA - UPSTREAM WALL			
STA	NORTHING	EASTING	DESCRIPTION
0+00	7014850.41	2599870.81	BEGIN WALL
0+57.80	7014867.85	2599815.71	PI WALL
1+58.10	7014956.87	2599769.49	END WALL

HORIZONTAL ALIGNMENT DATA - DOWNSTREAM WALL			
STA	NORTHING	EASTING	DESCRIPTION
0+00	7014934.76	2599726.89	BEGIN WALL
1+00.31	7014845.73	2599773.11	PI WALL
1+49.08	7014804.63	2599746.86	END WALL

**NOTES:**

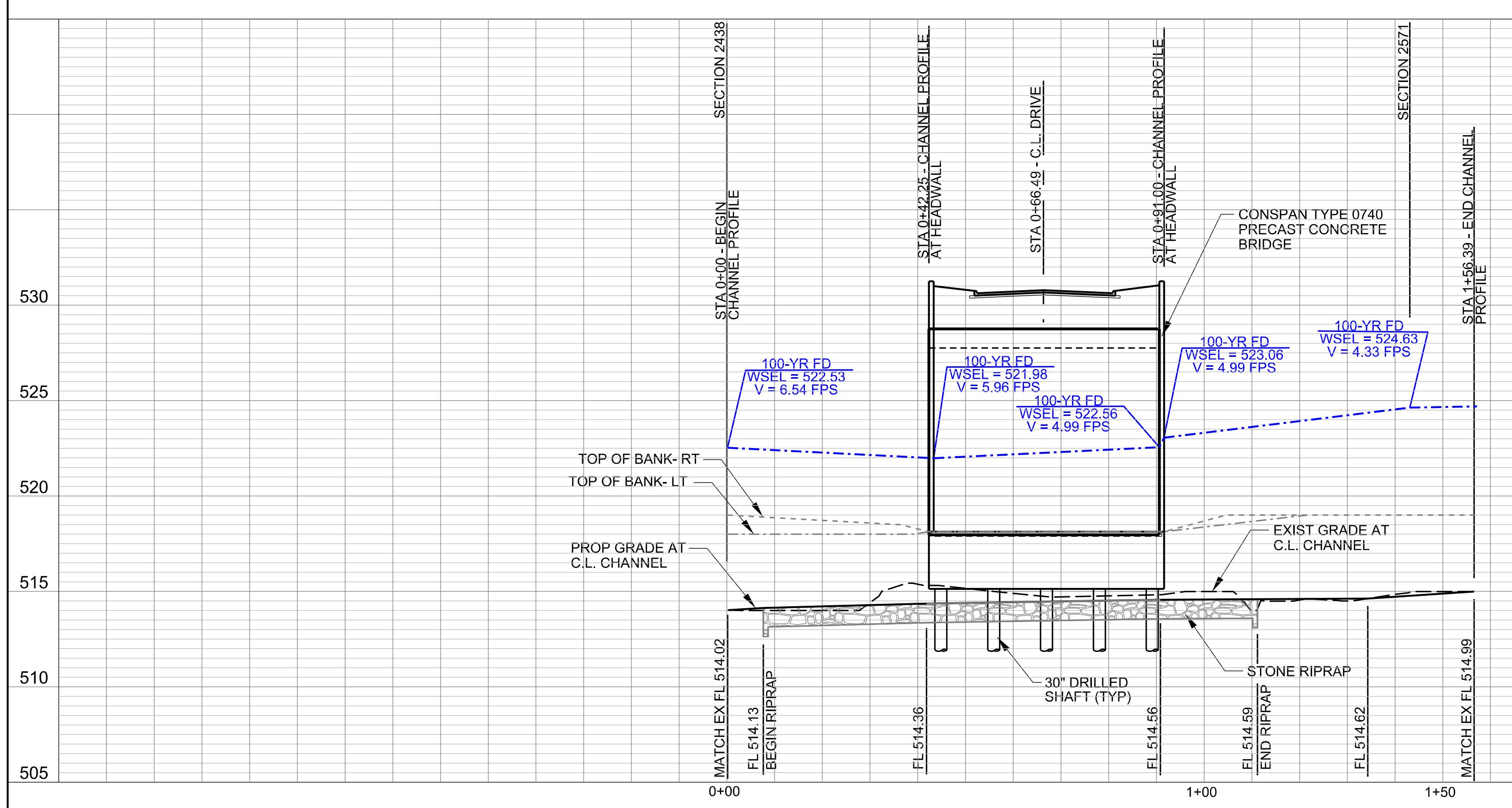
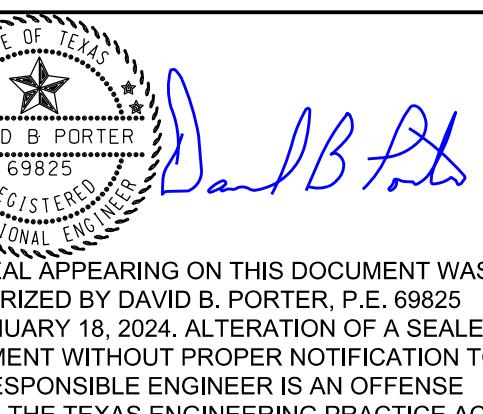
1. SEE PHASE 2 CIVIL PLANS FOR DRIVE ALIGNMENT AND PROFILE
2. CONSPAN TYPE 0740 PRECAST BRIDGE, HEADWALLS, WINGWALLS AND DETAILED DESIGN TO BE PROVIDED BY CONTECH ENGINEERED SOLUTIONS, INC. FINAL FOUNDATION DESIGN TO BE PROVIDED BY R-DELTA ENGINEERS, INC.
3. HEADWALLS AND WINGWALLS SHALL HAVE ASHLAR STONE VENEER FINISH.
4. SEE C9-2- P2 FOR BRIDGE PLAN AND ELEVATIONS & RIPRAP LIMITS

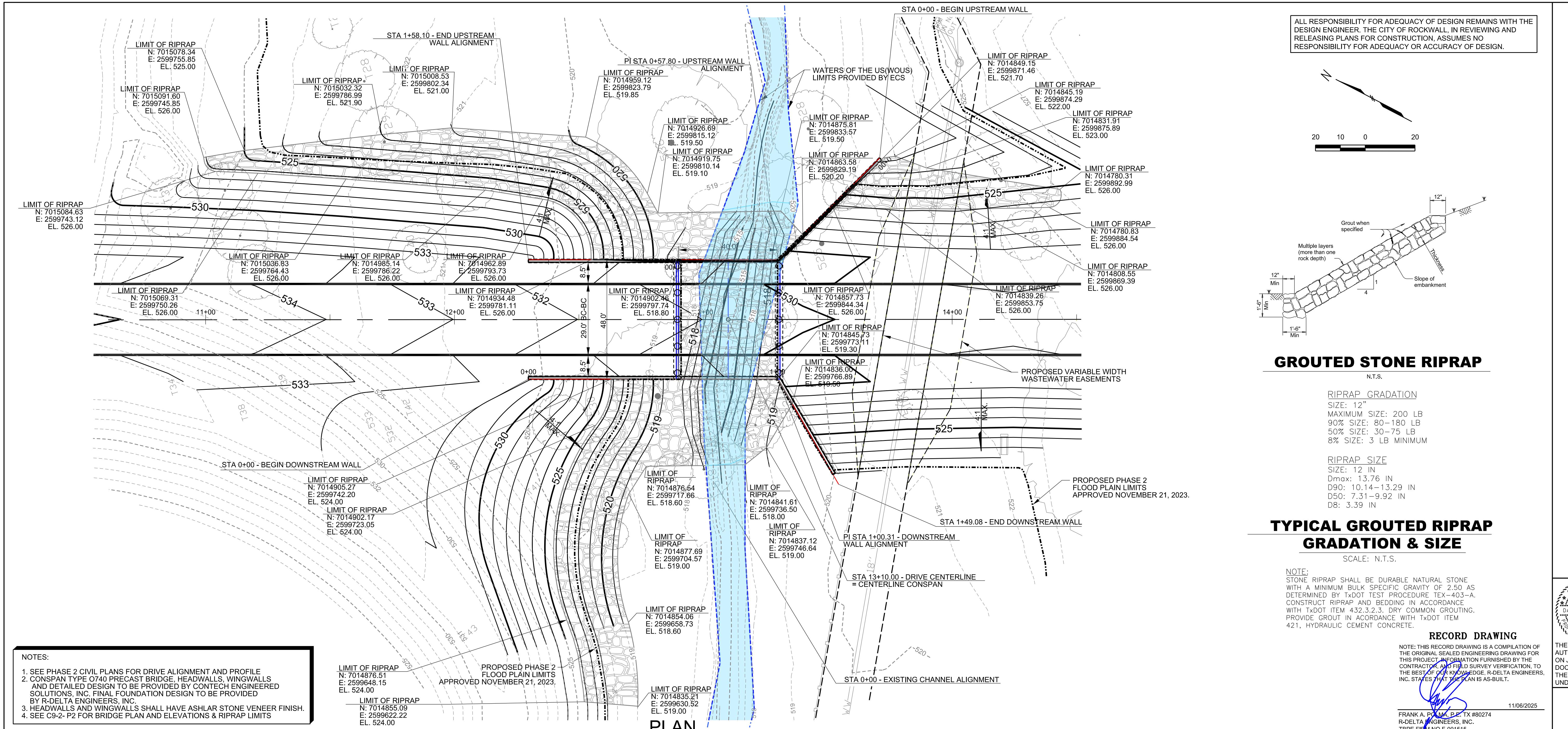
**RECORD DRAWING**

NOTE: THIS RECORD DRAWING IS A COMPILED OF THE ORIGINAL SEALED ENGINEERING DRAWING FOR THIS PROJECT. INFORMATION PROVIDED BY THE CONTRACTOR TO THE SURVEY VERIFICATION TO THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS, INC. STATES THAT THE PLAN IS AS-BUILT.

11/06/2025

FRANK A. KODAMA, P.E. #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515





**ARCHITECT**  
HKS, INC.  
350 N SAINT PAUL ST  
SUITE 100  
DALLAS, TX 75201

**LANDSCAPE ARCHITECT**  
KIMLEY-HORN AND ASSOCIATE, INC.  
260 EAST DAVIS STREET, SUITE 100  
MCKINNEY, TX 75069

# STRUCTURAL ENGINEER

350 N SAINT PAUL ST, SUITE 100  
DALLAS, TX 75201-4240

**MEP ENGINEERS**  
SYSKA HENNESSY GROUP  
4925 GREENVILLE AVENUE, SUITE 415  
DALLAS, TX 75206

## **OWNER/ APPLICANT**

RAYBURN ELECTRIC COOPERATIVE

ROCKWALL, TX 75087  
469-402-2100

R - DELTA ENGINEERS, INC.  
618 MAIN STREET  
GARLAND, TEXAS 75040  
TBPE No. F-1515

100

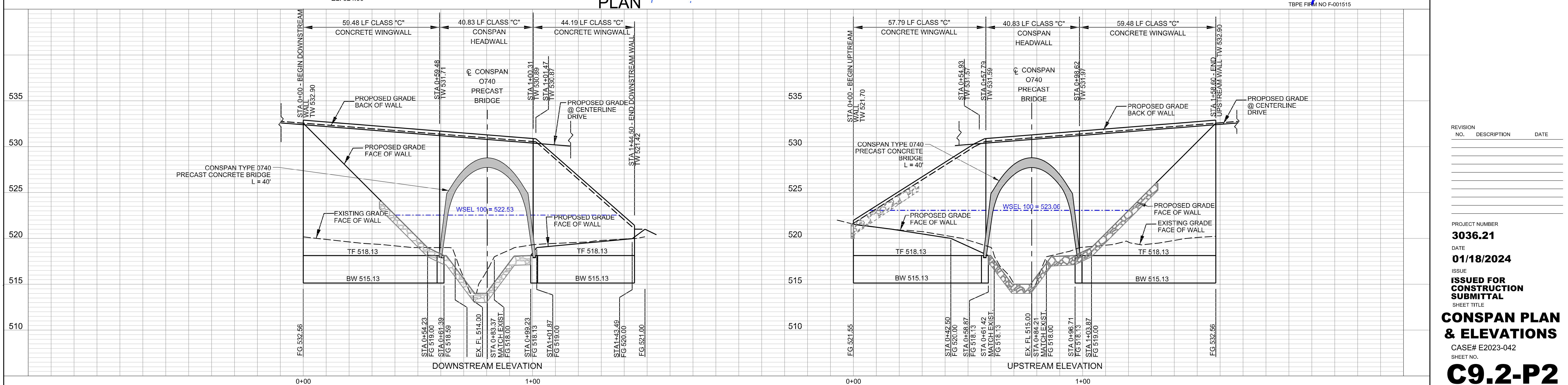
ctr  
ERATI

The logo for ayburnELLE COOP. It features a large, stylized, dark red 'ELLE' monogram on the left. To the right of the monogram, the word 'ayburnELLE' is written in a bold, black, sans-serif font, with 'ayburn' on the first line and 'ELLE' on the second line. Below 'ayburnELLE', the word 'COOP' is written in a smaller, black, sans-serif font.

The seal of the State of Texas, featuring a five-pointed star in the center, surrounded by a circular border with the words "THE STATE OF TEXAS" and a decorative outer ring.

REGISTRATION NUMBER  
S-12345678  
REAL APPEARING ON THIS DOCUMENT WAS  
AUTHORIZED BY DAVID B. PORTER, P.E. 69825  
ON JANUARY 18, 2024. ALTERATION OF A SEALED  
DOCUMENT WITHOUT PROPER NOTIFICATION IS  
A CRIMINAL OFFENSE.  
PRACTICE ACT  
THE TEXAS ENGINEERING PRACTICE ACT

FOR THE TEXAS ENGINEERING PRACTICE ACT



**INLET DESIGN CALCULATIONS TABLE**

Inlet ID	Location			Area Runoff										Gutter Flow										Maximum Allowable Flow Based on Max. Allowable Ponding Width Qallowgutter (cfs)		
	Alignment <sup>1</sup>	Station	Offset	Design Freq	C	Area ID	Time of Concentration, Tc (min)	Intensity I (in/hr)	Area A (acres)	Runoff Q cfs	Upstream Bypass, C*A (acres)	Total Gutter Flow Qa (cfs)	Thoroughfare Type	On Grade/Sag	Manning's n	Long Slope S (%)	Crown Type	Cross Slope Sx (%)	Depth a (ft)	Width w (ft)	Ponding Width/Spread		Depth of Gutter Flow			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	
DRIVE A-1	DRIVE A	2+39.61	No offset	100	0.9	X, AA1, Z1A	10	9.8	0.92	8.13	0.000	8.09	Local	Sag	0.0175	NA	NA	3.57%	NA	2	14.00	9.23	0.50	0.33	15.12	
DRIVE A-2	DRIVE A	2+07.61	No offset	100	0.9	Y, AA2, Z1B	10	9.8	0.81	7.11	0.000	7.12	Local	Sag	0.0175	NA	NA	3.57%	NA	2	14.00	8.47	0.50	0.30	15.12	

**NOTES:**

1) Refer to Storm Drain Alignment on Sheet C10.2-P2 for reference.

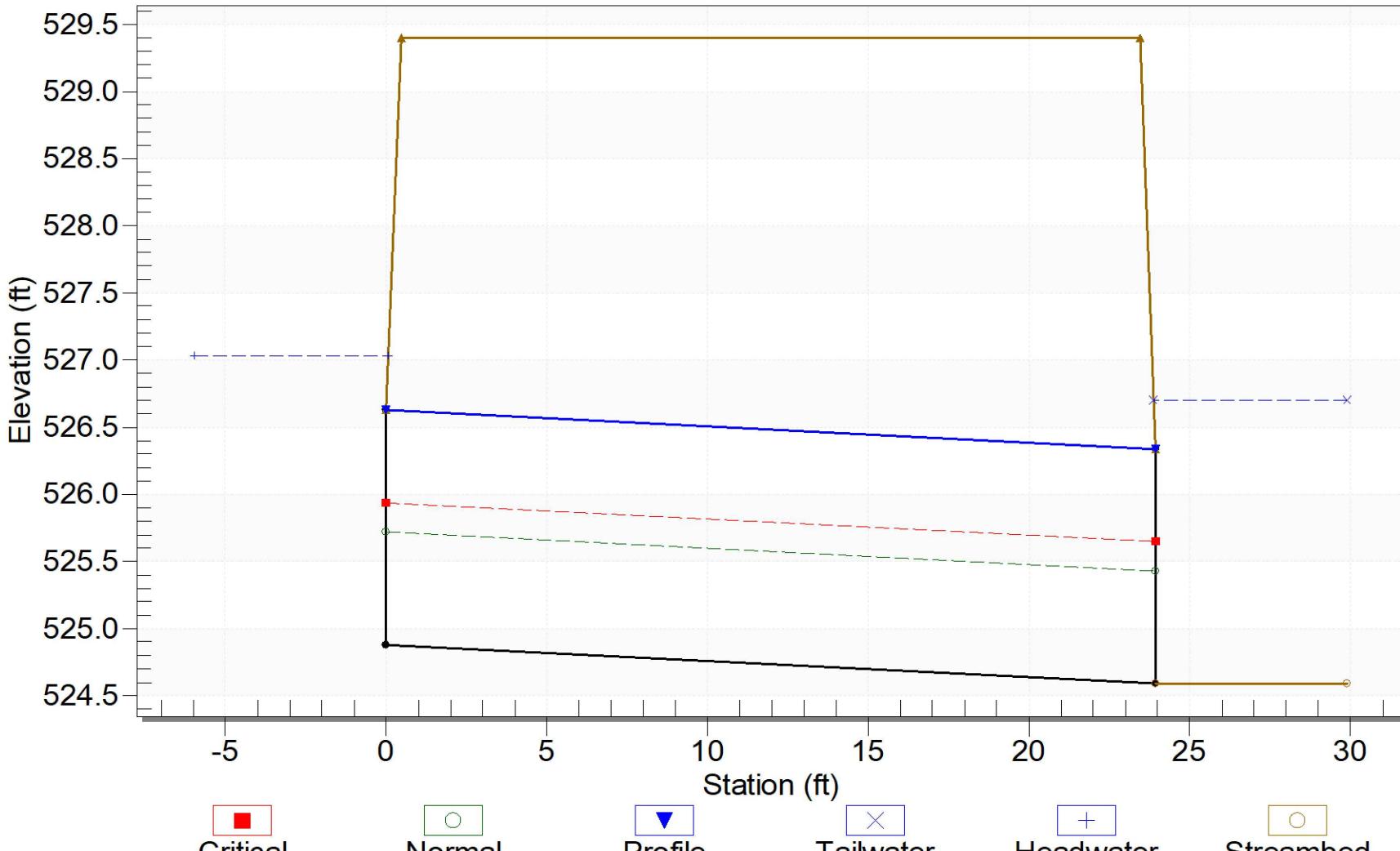
**INLET DESIGN CALCULATIONS TABLE**

Inlet ID	Location			Inlets Capacity										Inlet Bypass			Remarks	
	Alignment <sup>1</sup>	Station	Offset	Depressed Gutter Section		Section Beyond Depression		Conveyance				Inlet Length		Flow Qbypass (cfs)	C*A	To Inlet ID		
				Area Aw (ft <sup>2</sup> )	Wetted Perimeter Pw (ft)	Area Ao (ft <sup>2</sup> )	Wetted Perimeter Po (ft)	Depression Section Kw (cfs)	Section Beyond Depression Ko (cfs)	Ratio of Depression Flow to Total Flow Eo	Equivalent Cross-Slope, Se	Required Lreqd (ft)	Actual Lactual (ft)					
(1)	(2)	(3)	(4)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)
DRIVE A-1	DRIVE A	2+39.61	No offset	NA	NA	NA	NA	NA	NA	NA	NA	6.40	15	15.12	0.00	0.00	NA	
DRIVE A-2	DRIVE A	2+07.61	No offset	NA	NA	NA	NA	NA	NA	NA	NA	5.15	15	15.12	0.00	0.00	NA	

**NOTES:**

1) Refer to Storm Drain Alignment on Sheet C10.2-P2 for reference.

STM LINE DRIVE A, TOP LEG FROM INLET DRIVE A-1 TO INLET DRIVE A-2

 Crossing - Access Dr Upper, Design Discharge - 8.1 cfs  
Culvert - Culvert 1, Culvert Discharge - 8.1 cfs


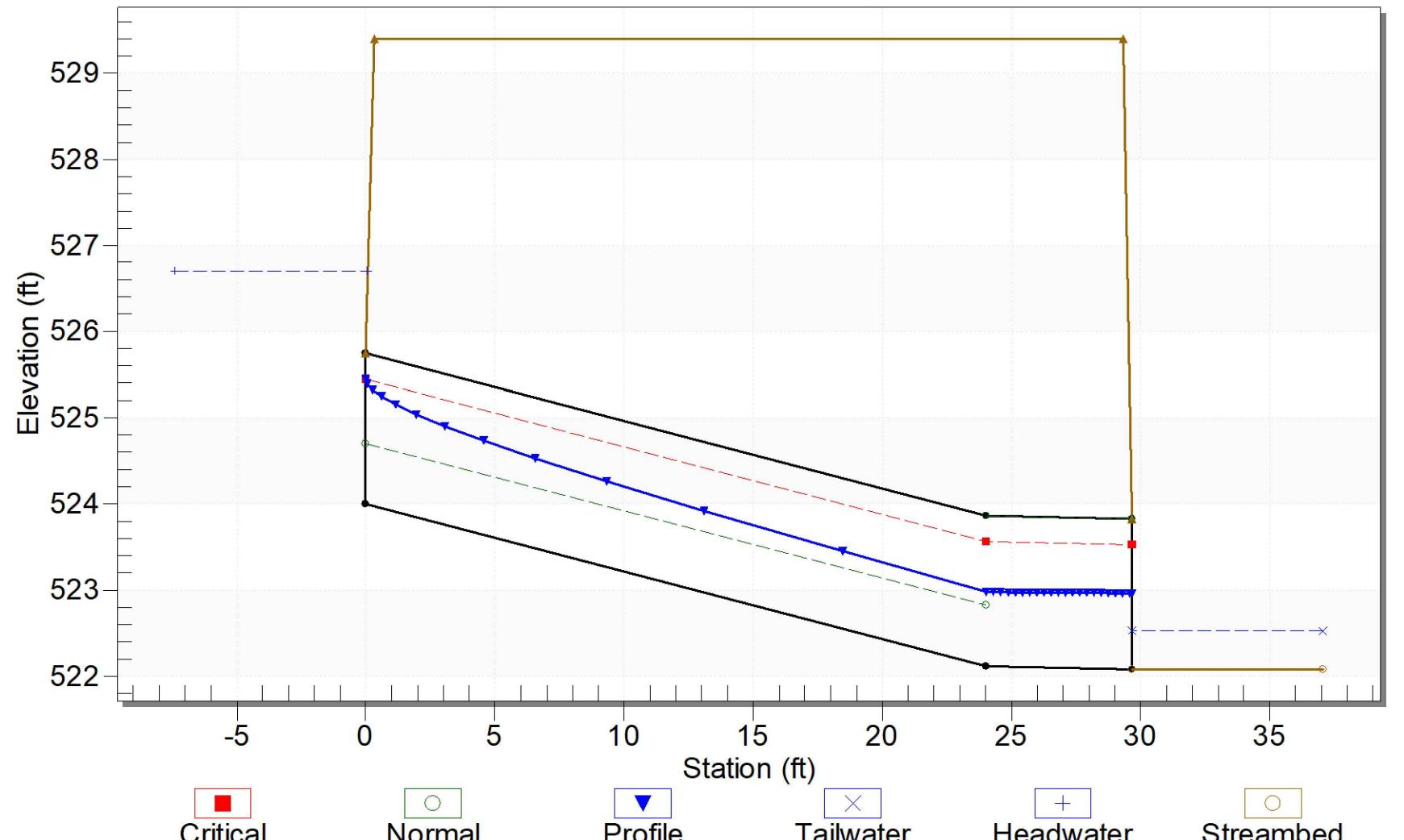
Headwater Elevation (ft)	Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Roadway Discharge (cfs)	Iterations
527.03	8.13	8.13	0.00	1

Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth(ft)	Outlet Control Depth(ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)
8.13	8.13	527.03	1.61	2.15	4-Fff	0.84	1.06	1.75	2.11	3.38

TAILWATER ELEVATION = 526.70 FT [BASED ON HEADWATER ELEV OF BOTOM LEG]

HY-8 USED FOR CULVERT ANALYSIS

STM LINE DRIVE A, BOTTOM LEG FROM INLET DRIVE A-2 TO HEADWALL

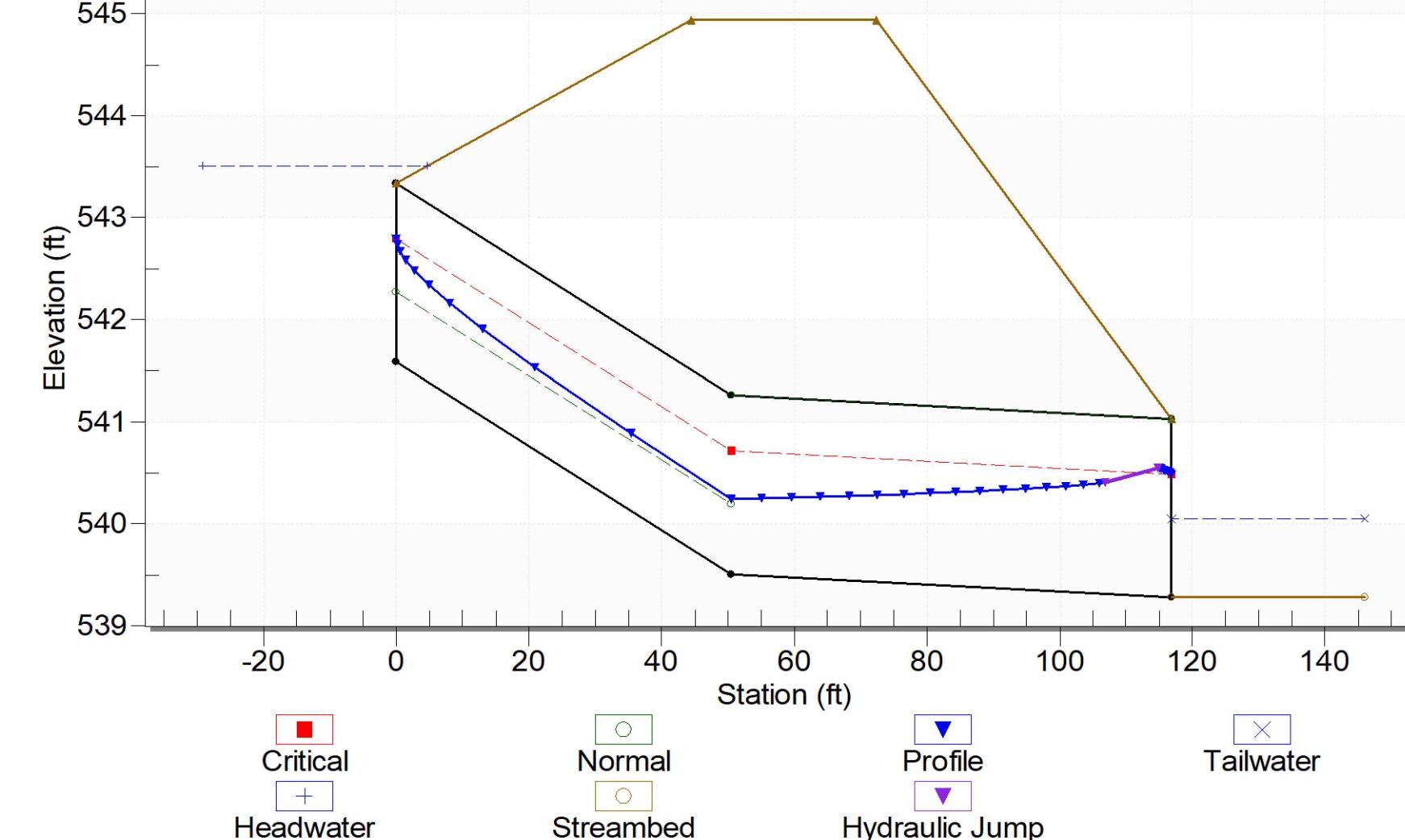
 Crossing - Crossing 1, Design Discharge - 15.2 cfs  
Culvert - Culvert 1, Culvert Discharge - 15.2 cfs


Headwater Elevation (ft)	Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Roadway Discharge (cfs)	Iterations
526.70	15.25	15.25	0.00	1

Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth(ft)	Outlet Control Depth(ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Upstream Depth (ft)	Downstream Depth (ft)	Upstream Velocity (ft/s)	Downstream Velocity (ft/s)
15.25	15.25	526.70	2.70	0.0*	5-S2n	0.71	1.45	1.45	0.86	7.18	12.96

TAILWATER ELEVATION = 522.53 FT [BASED ON 100 YR FLOOD PLAIN ELEVATION - CROSS-SECTION 2438]

HY-8 USED FOR CULVERT ANALYSIS

 Crossing - Crossing 1, Design Discharge - 20.9 cfs  
Culvert - Culvert 1, Culvert Discharge - 20.9 cfs


Headwater Elevation (ft)	Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Roadway Discharge (cfs)	Iterations
543.51	20.92	20.92	0.00	1

Total Discharge (cfs)	Culvert 1 Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth(ft)	Outlet Control Depth(ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Upstream Depth (ft)	Downstream Depth (ft)	Upstream Velocity (ft/s)	Downstream Velocity (ft/s)
20.92	20.92	543.51	1.92	0.0*	5-S2n	0.69	1.21	1.21	0.74	5.93	10.93

TAILWATER ELEVATION = 540.05 FT WHICH IS BASED ON THE FOLLOWING:



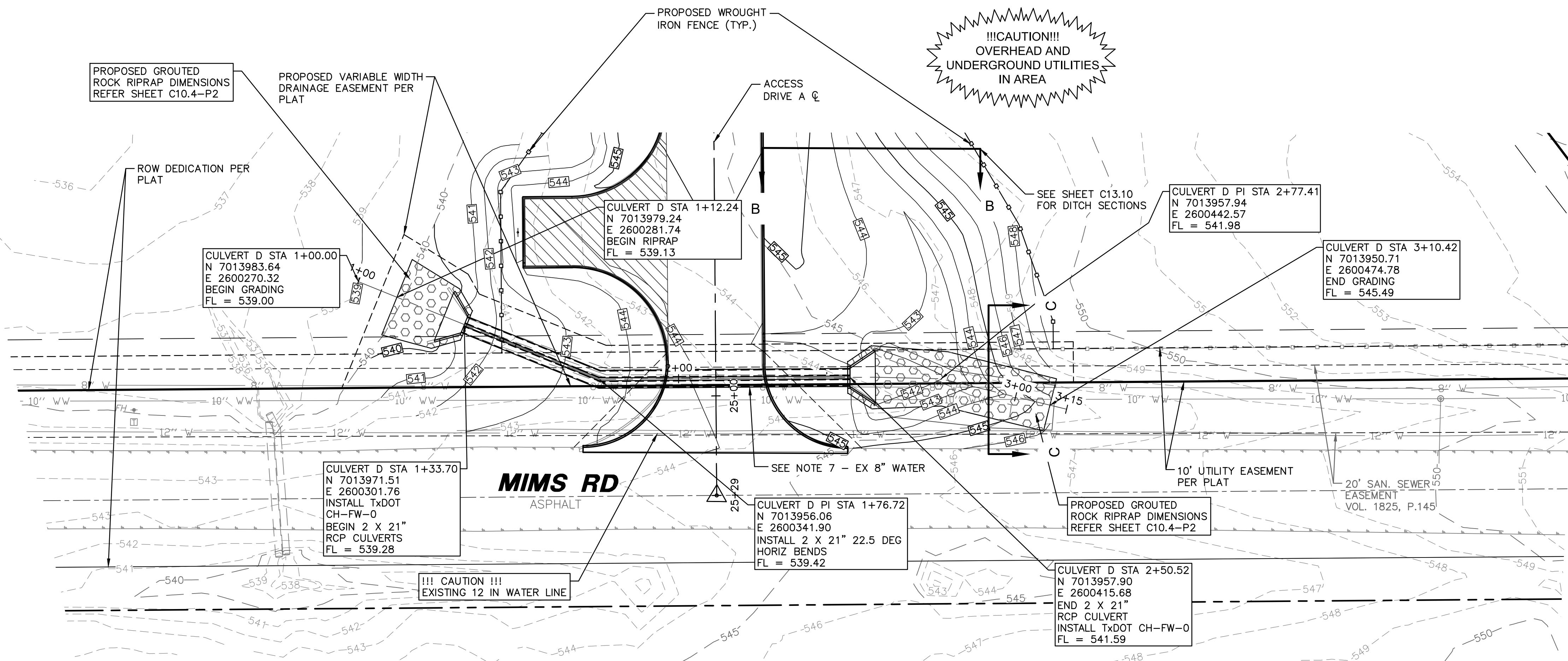


THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRIAN PAUL PATRICK, P.E. 80844 ON JANUARY 18, 2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

RECORD DRAWING

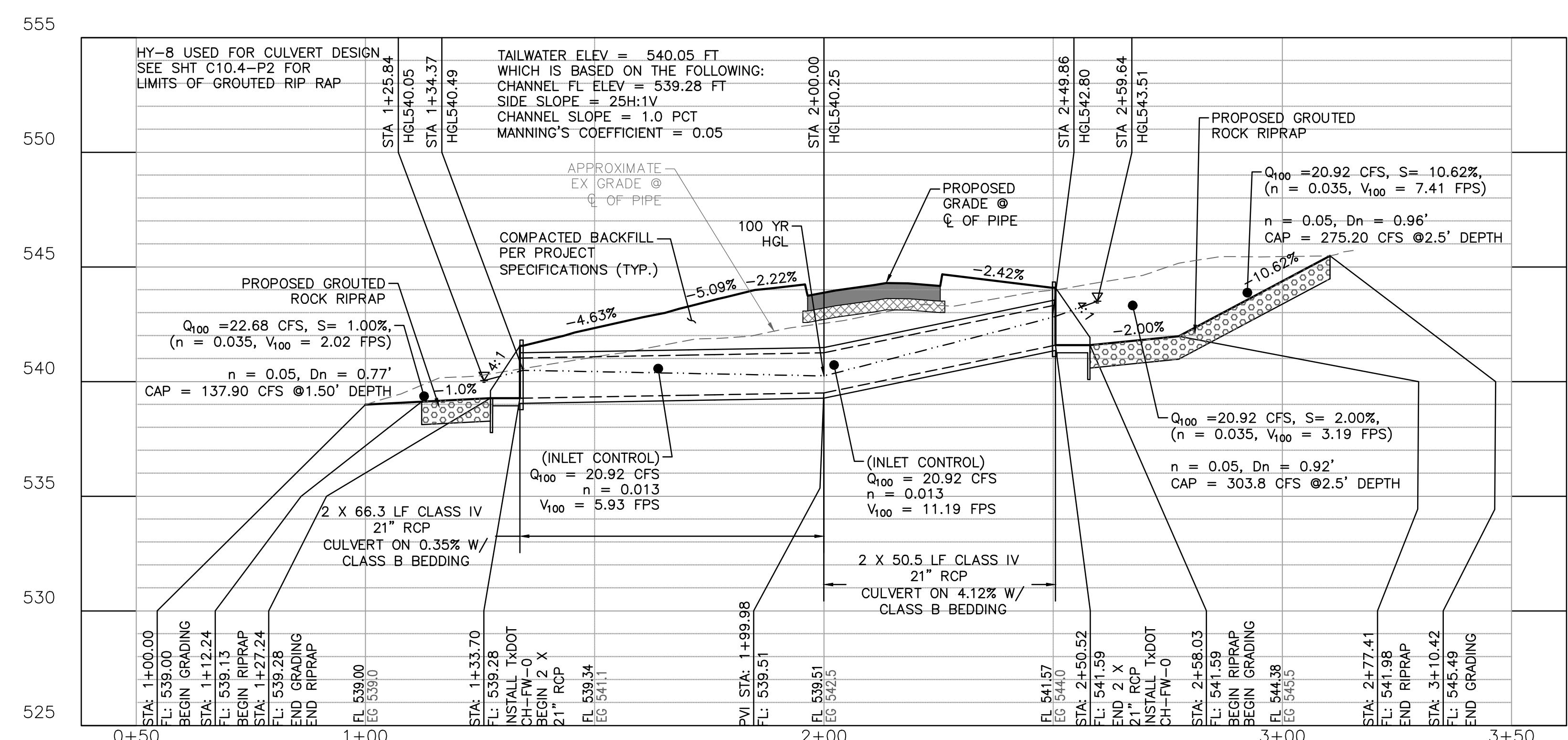
NOTE: THIS RECORD DRAWING IS A COMPILATION OF THE ORIGINAL SEALED ENGINEERING DRAWING FOR THIS PROJECT. INFORMATION FURNISHED BY THE CONTRACTOR AND FIELD SURVEY VERIFICATION, TO THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS, INC. STATES THAT THE PLAN IS AS-BUILT.

11/06/2025  
FRANK A. POMA, P.E. TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515



PLAN CULVERT D

SCALE: 1"=20"



## LEGEND

- EXISTING WROUGHT IRON FENCE
- EXISTING SURFACE CONTOUR MAJOR
- EXISTING SURFACE CONTOUR MINOR
- PROPOSED SURFACE CONTOUR MAJOR
- PROPOSED SURFACE CONTOUR MINOR
- DRAINAGE FLOW
- PROPOSED GROUTED ROCK RIPRAP

## NOTES:

1. TRENCH SAFETY IS REQUIRED FOR STORM SEWER CONSTRUCTION.
2. SEE SHEET C1.1-P2 FOR LEGEND, PROJECT CONTROL, AND PROJECT NOTES.
3. SEE SHEET C13.2-P2 AND C13.3-P2 FOR GENERAL STORM SEWER DETAILS.
4. SEE SHEET C10.1-P2 FOR HYDRAULIC CALCULATIONS.
5. SEE SHEET C13.10-P2 FOR GROUTED RIPRAP DETAILS.
6. CONTACT CITY OF ROCKWALL SERVICE CENTER (972-771-7730) FOR 12" WATER LINE LOCATES 2 BUSINESS DAYS PRIOR TO EXCAVATION.
7. PER CONVERSATION WITH DWIGHT OF RCH WATER SUPPLY CORPORATION, THE 8" WATER MAIN IN MIMS RD IS NOT SERVICING ANYTHING. CONTACT RCH WSC TO CONFIRM THE 8" WATER IS NOT IN SERVICE.

REVISION NO.	DESCRIPTION	DATE

PROJECT NUMBER  
**3036.21**  
DATE  
**01/18/2024**

ISSUE  
NOTE FOR CONSTRUCTION

SUBMITTAL  
SHEET TITLE  
**CULVERT D PLAN & PROFILE**

CASE# E2023-042  
SHEET NO.

NOTE:  
CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES (SHOWN ON PLANS OR NOT) PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS DIFFER SIGNIFICANTLY FROM LOCATIONS SHOWN ON PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. R-DELTA ENGINEERS, INC. WILL NOT BE RESPONSIBLE FOR ANY WORK BY THE CONTRACTOR NEGLECTING TO LOCATE THESE UTILITIES.

PROFILE CULVERT D

HORIZONTAL SCALE: 1"=20'  
VERTICAL SCALE 1"=5'

**C10.3-P2**



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRIAN PAUL PATRICK, P.E. #80844 ON JANUARY 18, 2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. R-DELTA ENGINEERS, INC. STATES THAT THE PLAN IS AS-BUILT.

RECORD DRAWING  
11/06/2025  
FRANK A. POLIA, P.E., TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

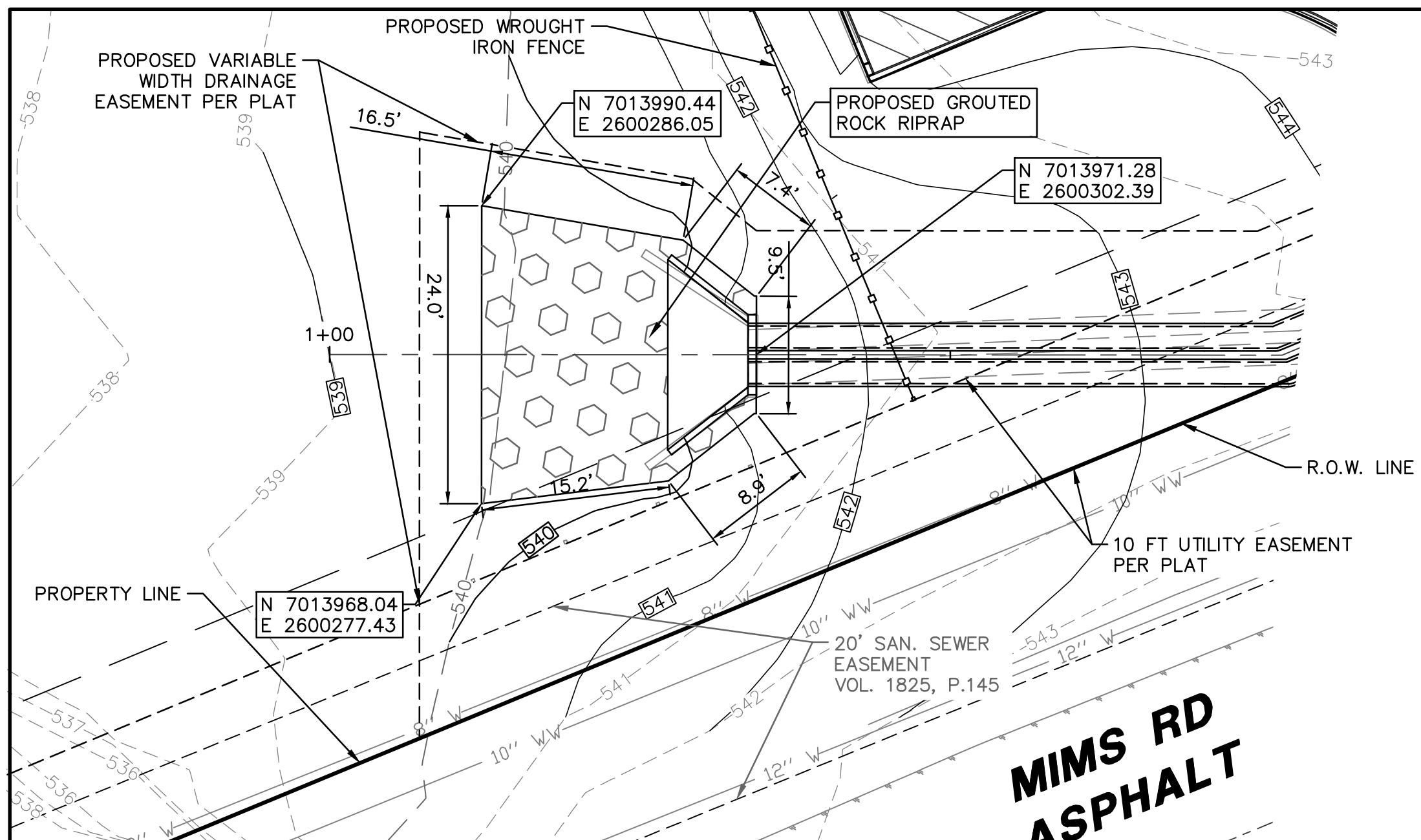
REVISION NO. DESCRIPTION DATE  
PROJECT NUMBER  
**3036.21**  
DATE  
**01/18/2024**  
ISSUE  
**NOTE FOR CONSTRUCTION**

**SUBMITTAL**

Sheet Title  
**RIPRAP LAYOUT & DIMENSIONS**

CASE# E2023-042  
Sheet No.

**C10.4-P2**

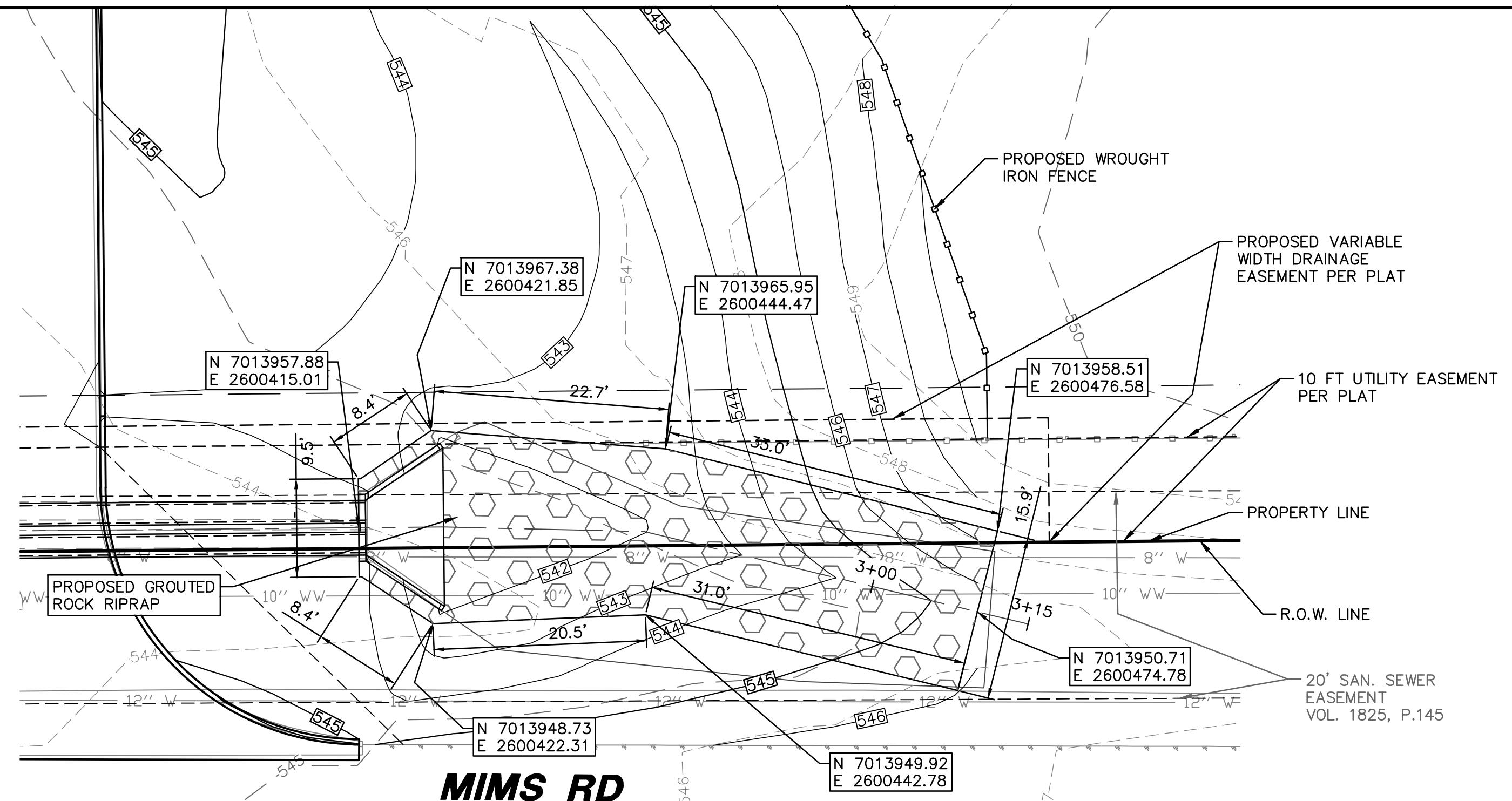


RIPRAP DIMENSIONS - CULVERT D DOWNSTREAM END HEADWALL

SCALE: 1 INCH = 10 FT

10 5 0 10  
GRAPHIC SCALE IN FEET  
SCALE: 1" = 10'

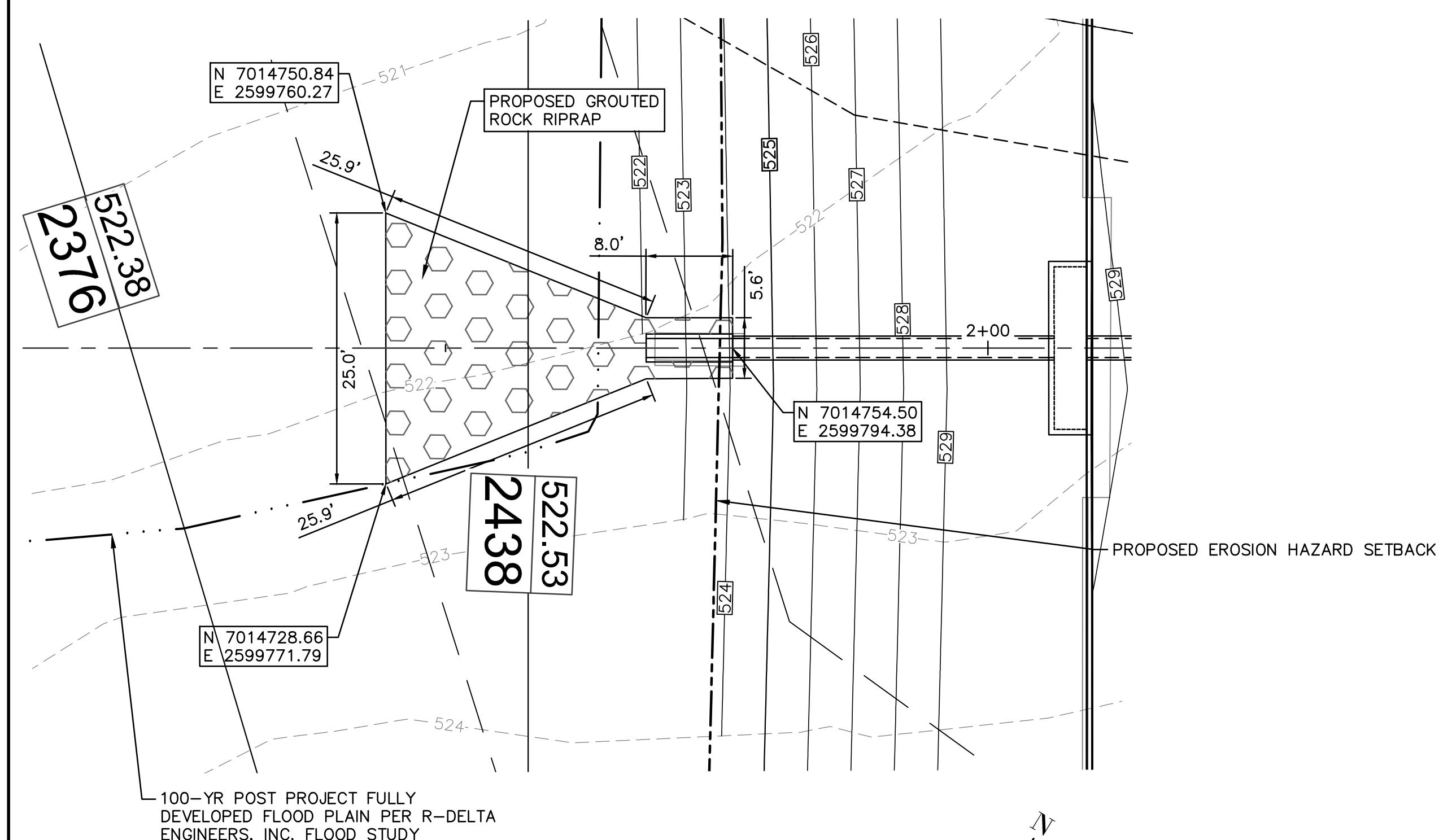
!!!CAUTION!!!  
OVERHEAD AND  
UNDERGROUND UTILITIES  
IN AREA



RIPRAP DIMENSIONS - CULVERT D UPSTREAM END HEADWALL

SCALE: 1 INCH = 10 FT

10 5 0 10  
GRAPHIC SCALE IN FEET  
SCALE: 1" = 10'



RIPRAP DIMENSIONS - STM LINE DRIVE A (DOWNSTREAM END) HEADWALL

SCALE: 1 INCH = 10 FT

10 5 0 10  
GRAPHIC SCALE IN FEET  
SCALE: 1" = 10'

NOTE:  
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**CHECK FOR RIPRAP SIZE DOWNSTREAM OF CULVERT D**

Per Section 4.4.2, iSWM™ Technical Manual, Hydraulics, Chapter 4

For pipes flowing partially full.

Tailwater = 540.05 ft; Depth is 0.77 feet; Depth of flow, d = 1.21 feet, V = 5.93 fps (from HY-8)

Because Tailwater depth < 0.5 x dia of pipe (0.875 ft); Use Fig 4.2

For dia of pipe = 21" and V = 5.93 fps,  $D_{50} = 0.4$  feet (From Lower Portion of Figure), USE 8"

From the Upper curve of the figure, Required Length of Riprap =  $La = 12$  feet; Provided is 15 feet

Width of Riprap at Downstream End =  $D_0 + La = 2 \times 1.75$  (2 x 21" RCP) + 1.33' (separation between pipes) + 12 feet = 16.83 feet. Provided Width is 24 feet

**CHECK FOR RIPRAP SIZE UPSTREAM OF CULVERT D**

Per Eqn 3.22, iSWM™ Technical Manual, Hydraulics, Chapter 3

$$D_{50} = \sqrt{\frac{V}{1.8 \sqrt{2g} ((Y_s - Y_w) / Y_w)}}$$

$$D_{50} = \sqrt{\frac{7.41}{1.8 \sqrt{2 \times 32.2} \frac{2.50 \times 62.4 - 62.4}{62.4}}} = 0.65 \text{ ft}$$

USE 8"

**CHECK FOR RIPRAP SIZE DOWNSTREAM OF STM LINE DRIVE A**

Per Section 4.4.2, iSWM™ Technical Manual, Hydraulics, Chapter 4

For pipes flowing partially full.

Tailwater = 522.53 ft; Depth is 0.45 feet; Depth of flow, d = 0.89 feet, V = 12.46 fps (from HY-8)

Because Tailwater depth < 0.5 x dia of pipe (0.875 ft); Use Fig 4.2

For dia of pipe = 21" and V = 12.46 fps,  $D_{50} = 0.65$  feet (From Lower Portion of Figure), USE 8"

From the Upper curve of the figure, Required Length of Riprap =  $La = 16$  feet; Provided is 24 feet

Width of Riprap at Downstream End =  $D_0 + La = 1.75$  feet + 16 feet = 17.75 feet. Provided Width is 25 feet

**NOTES:**

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3. SEE SHEET C13.2-P2 AND C13.3-P2 FOR GENERAL STORM SEWER DETAILS.
4. SEE SHEET C10.1-P2 FOR HYDRAULIC CALCULATIONS.
5. SEE SHEET C13.10-P2 FOR GROUTED RIPRAP DETAILS.
6. CONTACT CITY OF ROCKWALL SERVICE CENTER (972-771-7730) FOR 12" WATER LINE LOCATES 2 BUSINESS DAYS PRIOR TO EXCAVATION.
7. PER CONVERSATION WITH DWIGHT OF RCH WATER SUPPLY CORPORATION, THE 8" WATER MAIN IN MIMS RD IS NOT SERVICING ANYTHING. CONTACT RCH WSC TO CONFIRM THE 8" WATER IS NOT IN SERVICE.

**LEGEND**

- EXISTING WROUGHT IRON FENCE
- 550— EXISTING SURFACE CONTOUR MAJOR
- 551— EXISTING SURFACE CONTOUR MINOR
- 550— PROPOSED SURFACE CONTOUR MAJOR
- 551— PROPOSED SURFACE CONTOUR MINOR
- DRAINAGE FLOW
- PROPOSED GROUTED ROCK RIPRAP

NOTE:  
CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES (SHOWN ON PLANS OR NOT) PRIOR TO CONSTRUCTION. IF FIELD CONDITIONS DIFFER SIGNIFICANTLY FROM LOCATIONS SHOWN ON PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. R-DELTA ENGINEERS, INC. WILL NOT BE RESPONSIBLE FOR ANY WORK BY THE CONTRACTOR NEGLECTING TO LOCATE THESE UTILITIES.

## SITE DESCRIPTION

PROJECT LOCATION:

RAYBURN ELECTRIC COOPERATIVE CAMPUS  
950 SIDS ROAD  
ROCKWALL, TEXAS 75032

IS THIS A SHARED SWPPP?  YES  NO

IF YES, AREAS OF RESPONSIBILITY OF EACH OPERATOR SHALL BE INDICATED IN SWPPP.

OPERATORS NAME & ADDRESS: CONTRACTOR NAME & ADDRESS:

RAYBURN ELECTRIC COOPERATIVE  
950 SIDS ROAD  
ROCKWALL, TEXAS 75032  
PULLIAM CONSTRUCTION  
303 S. JACKSON ST., SUITE 100  
WYLIE, TEXAS 75098

PROJECT DESCRIPTION: CONSTRUCTION OF CIVIL SITE IMPROVEMENTS INCLUDING GRADING, DRAINAGE, FENCING AND PAVING

SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES:

1. INSTALL EROSION CONTROL DEVICES.
2. REMOVE AND DISPOSE OF EXISTING IMPROVEMENTS PER DEMOLITION PLAN.
3. STRIP SITE OF VEGETATION/ORGANICS.
4. INSTALL DRAINAGE AND UTILITIES, PLACE AND COMPACT FILL, CONSTRUCT, FENCING, SUBGRADE AND CONSTRUCT PAVING AND SIDEWALKS.
5. ESTABLISH PERMANENT VEGETATION IN UNPAVED DISTURBED AREAS
6. REMOVE EROSION CONTROL DEVICES.

DESCRIPTION OF POTENTIAL POLLUTANTS:

POTENTIAL POLLUTANTS MAY INCLUDE: STOCKPILED SOILS, CHEMICALS, FERTILIZERS, CONCRETE AND ASPHALT WASTE FLUIDS, OILS, GREASE FROM TRUCKS AND EQUIPMENT, CONSTRUCTION DEBRIS (INCLUDING GARBAGE), SEDIMENT FROM STORM WATER RUNOFF, AND SLURRY FROM CONCRETE SAW CUTTING.

PRE-DEVELOPMENT RUNOFF COEFFICIENT: 0.35

FINAL RUNOFF COEFFICIENT AFTER CONSTRUCTION: 0.90

TOTAL PROJECT AREA: 5.68 ACRES

TOTAL AREA TO BE DISTURBED, INCLUDING OFF-SITE MATERIAL STORAGE AREAS, OVERBURDEN AND STOCKPILES OF DIRT, AND BORROW AREAS THAT ARE AUTHORIZED UNDER THE

PERMITTEE'S NOI: 4.12 ACRES

DESCRIPTION OF EXISTING SOIL:

HOUSTON BLACK CLAY, 1 to 3% SLOPES	(32%)
FERRIS-HEIDEN COMPLEX, 2 to 5% SLOPES	(15%)
FERRIS CLAY, 5 to 12% SLOPES, ERODED	(50%)
HEIDEN CLAY, 3 to 5% SLOPES	(3%)
<hr style="width: 100px; margin-left: 0; border: 0; border-top: 1px solid black; margin-top: 5px;"/>	
(100%)	

DESCRIPTION OF STABILIZATION OF EXISTING DRAINAGE WAYS:

CONCRETE PAVING, ROCK RIPRAP AND RE-ESTABLISHING VEGETATION

DESCRIPTION OF LOCATIONS WHERE STORMWATER DISCHARGES FROM PROJECT DRAIN DIRECTLY TO SURFACE WATER BODIES (WATERS OF THE U.S. OR SURFACE WATERS IN THE STATE), OR INTO MS4:

STORMWATER DISCHARGES OVERLAND AND IN STORM SYSTEMS  
TO BUFFALO CREEK TRIBUTARY \*3 THEN INTO BUFFALO CREEK,  
THEN FINALLY INTO LAKE RAY HUBBARD

NAME OF RECEIVING WATERS: LAKE RAY HUBBARD WATERSHED

ESTIMATED PROJECT START DATE: FEBRUARY 1, 2024

ESTIMATED PROJECT END DATE: MAY 31, 2024

GENERAL PERMIT AUTHORIZATION \*: TXR150000

DATE NOTICE OF INTENT SENT TO TCEQ :

## EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

TEMPORARY:

ESTABLISHED VEGETATION (SEED OR SOD @ 70% DENSITY)  
 N/A MULCHING  
 N/A TACKIFIER  
 N/A EROSION CONTROL BLANKETS

PERMANENT:

ESTABLISHED PERENNIAL VEGETATION (SEED OR SOD @ 70% DENSITY)  
 N/A ESTABLISHED VEGETATION OTHER THAN SEED OR SOD (LANDSCAPING)  
 X PAVING  
 X RIPRAP, GABIONS OR GEOTEXTILES

DISTURBED AREAS INCLUDING HOUSE LOTS OR PROPOSED HOUSE LOTS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME WITHIN 21 DAYS.

BEST MANAGEMENT (EROSION & SEDIMENT CONTROL) PRACTICES:

INDICATE SELECTION WITH AN "X", IF NOT APPLICABLE, INDICATE N/A.  
ALL BMPs SELECTED SHALL BE INDICATED ON THE EROSION CONTROL PLAN.

X SILT FENCE (BMP ID S-1)  
 N/A ORGANIC FILTER BERM (BMP ID S-2)  
 X TRIANGULAR SEDIMENT FILTER DIKE (BMP ID S-3)  
 X INLET PROTECTION (BMP ID S-4)  
 N/A STONE OUTLET SEDIMENT TRAP (BMP ID S-5)  
 N/A SEDIMENT BASIN (BMP ID S-6)  
 X CHECK DAM (BMP ID S-7)  
 N/A TEMPORARY SEDIMENT TANK (BMP ID S-8)  
 X STABILIZED CONSTRUCTION ENTRANCE (BMP ID S-9)  
 X WHEEL WASH (BMP ID S-10)  
 N/A INTERCEPTOR SWALE (BMP ID E-1)  
 N/A DIVERSION DIKE (BMP ID E-2)  
 N/A PIPE SLOPE DRAIN (BMP ID E-3)  
 X ESTABLISHED VEGETATION (SEED OR SOD @ 70% DENSITY)\*\* (BMP ID E-4)  
 N/A MULCHING (BMP ID E-5)  
 N/A EROSION CONTROL BLANKETS (BMP ID E-6)  
 N/A CHANNEL PROTECTION (BMP ID E-7)  
 X DUST CONTROL (BMP ID E-8)  
 N/A TREE PRESERVATION (APPROVED BY PLANNING DEPT)

\*1) SEDIMENT BASIN(S) CALCULATIONS SHALL BE INCLUDED IN SWPPP  
2) REQUIRED FOR 10 ACRES OR LARGER IF FEASIBLE, WRITTEN EXPLANATION REQUIRED IF DECLARED NOT FEASIBLE

\*\* INCLUDING PRESERVATION OF EXISTING VEGETATION

POST DEVELOPMENT STORMWATER MANAGEMENT FEATURES

X ESTABLISHED PERENNIAL VEGETATION (SEED OR SOD @ 70% DENSITY)  
 N/A ESTABLISHED VEGETATION OTHER THAN SEED OR SOD (LANDSCAPING)  
 X CURB & GUTTER  
 X STORM SEWER  
 X STORM SEWER INLETS  
 X CULVERTS  
 N/A GABIONS  
 X VELOCITY DISSIPATION DEVICES  
 N/A DETENTION, RETENTION, OR AMENITY POND;

IF A DETENTION OR RETENTION FACILITY OR AMENITY POND WILL BE PART OF A DEVELOPMENT, THE DEVELOPER SHALL CONSTRUCT THE FACILITY DURING THE INITIAL PHASES OF DEVELOPMENT, AND SHALL ENSURE THAT THE FACILITY IS FULLY FUNCTIONAL AS DESIGNED INCLUDING THE ESTABLISHMENT OF A STABILIZED COVER, WHICH SHALL BE MAINTAINED THROUGHOUT THE REMAINING PHASES OF CONSTRUCTION.

THE FOLLOWING INDICATED HOUSEKEEPING PRACTICES SHALL BE FOLLOWED

X DEBRIS AND TRASH MANAGEMENT (BMP ID M-1)  
 X CHEMICAL MANAGEMENT (BMP ID M-2)  
 X CONCRETE WASTE MANAGEMENT (BMP ID M-3)  
 X CONCRETE SAW CUTTING WASTE MANAGEMENT (BMP ID M-4)  
 N/A SANDBLASTING WASTE MANAGEMENT (BMP ID M-5)  
 X LIME STABILIZATION WASTE MANAGEMENT (BMP ID M-6)  
 X SANITARY FACILITIES \* (BMP ID M-7)

\* INDICATE PROPOSED LOCATION(S) OF SANITARY FACILITIES ON EROSION CONTROL PLAN.

(ALL SELECTED BMPs FROM MOST CURRENT NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES MANUAL SHALL BE ATTACHED TO THIS SWPPP. THE MANUAL IS FREE FOR DOWNLOAD IN PDF FORMAT AT: <http://www.dfwstormwater.com/construction/>

ARE SURFACE WATERS (INCLUDING WETLANDS) EITHER AT, ADJACENT, OR IN CLOSE PROXIMITY TO THE SITE IDENTIFIED?  YES  NO

IF YES, INDICATE LOCATION ON EROSION CONTROL PLAN

WILL THIS PROJECT HAVE A BATCH PLANT?  YES  NO

IF YES, INDICATE PROPOSED LOCATION OF BATCH PLANT ON EROSION CONTROL PLAN

NOTE: TCEQ REQUIRES STORMWATER RUNOFF SAMPLE ANALYSIS FOR BATCH PLANT OPERATIONS

WILL THIS PROJECT HAVE OFF-SITE CONSTRUCTION SUPPORT ACTIVITIES THAT ARE AUTHORIZED UNDER THE PERMITTEE'S NOI, INCLUDING MATERIAL, WASTE, BORROW, FILL, OR EQUIPMENT STORAGE AREAS?  YES  NO

IF YES, INDICATE LOCATION ON EROSION CONTROL PLAN

WILL STORMWATER DISCHARGES FROM THIS PROJECT EFFECT PROPERTY LISTED OR ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES?  YES  NO



THE SEAL APPLIED ON THIS DOCUMENT WAS AUTHORIZED BY BRIAN PAUL PATRICK, P.E. 80344 ON JANUARY 18, 2024. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.

REVISION NO. DESCRIPTION DATE

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PROJECT NUMBER  
**3036.21**

DATE  
**01/18/2024**

ISSUE  
**ISSUED FOR CONSTRUCTION SUBMITTAL**  
SHEET TITLE

**SWPPP NARRATIVE 1**

CASE# E2023-042

SHEET NO.

**C12.1-P2**

RECORD DRAWING  
NOTE: THIS RECORD DRAWING IS A COMPLIANCE OF THE ORIGINAL SEALED ENGINEERING DRAWING FOR THIS PROJECT. INFORMATION FURNISHED BY THE CONTRACTOR AND FIELD SURVEY VERIFICATION, TO THE BEST OF THE CONTRACTOR'S KNOWLEDGE, DO NOT DEVIATE FROM THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE DRAWINGS AS-BUILT.  
FRANK A. POMA, P.E. #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIR NO F-001515  
11/06/2025

SEQUENCE AND TIMING OF INDICATED EROSION CONTROL  
PRACTICES AND/OR FEATURES

(INCLUDE TREATMENT OF STOCKPILED DIRT FOR FUTURE USE)

(1) INSTALL PERIMETER CONTROLS	DAYS 0 - 5
(2) INSTALL STABILIZED CONSTRUCTION ENTRANCES	DAYS 0 - 5
(3) INSTALL STAKED PORTABLE TOILET	DAYS 0 - 5
(4) INSTALL INTERIOR CONTROLS	DAYS 5 - 15
(5) STRIP SITE OF VEGETATION/ORGANICS, STOCKPILE TOPSOIL; (STOCKPILED SOIL SHALL BE STABILIZED WITHIN 14 DAYS, UNLESS ACTIVITIES TO REUSE IT BEGIN WITHIN 21 DAYS)	DAYS 15 - 30
(6) INSTALL AND MAINTAIN CONCRETE WASHOUT AREAS	DAYS 30 - 112
(7) FINAL STABILIZATION COMPLETION	DAYS 112 - 117
(8) REMOVE TEMPORARY BMP'S	DAYS 117 - 121

NOTE:  
ALL BMP'S SHALL BE MAINTAINED AS NECESSARY DURING THE  
ENTIRE CONSTRUCTION PROCESS

DETAILED DESCRIPTION OF BMP MAINTENANCE PROTOCOLS

INSPECTION OF BMP'S SHALL BE PERFORMED BY THE OPERATOR DESIGNATED  
INSPECTOR REFERENCED IN THE STORMWATER POLLUTION PREVENTION PLAN  
LOCATED AT THE ON-SITE CONSTRUCTION OFFICE. INSPECTION MUST BE CONDUCTED  
PER THE TPDES GENERAL PERMIT NUMBER TXR150000 AS REFERENCED IN PART 3,  
SECTION F, NUMBER 8.

DESCRIPTION OF METHODS USED TO MODIFY STORM WATER POLLUTION CONTROLS  
IF EXISTING CONTROLS ARE DETERMINED INADEQUATE

THE PERMITTED MUST REVISE OR UPDATE THE STORM WATER POLLUTION  
PREVENTION PLAN WHENEVER:

1. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS AND THAT HAS NOT BEEN PREVIOUSLY ADDRESSED IN THE STORM WATER POLLUTION PREVENTION PLAN; OR
2. RESULTS OF INSPECTION OR INVESTIGATIONS BY SITE INSPECTORS, OPERATORS OF MUNICIPAL SEPARATE STORM SEWER SYSTEMS RECEIVING THE DISCHARGE, AUTHORIZED TCEQ PERSONNEL, OR A FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS INDICATE THE STORM WATER POLLUTION PREVENTION PLAN IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN DISCHARGES AUTHORIZED UNDER THIS GENERAL PERMIT.

NOTE:

- 1.) THE NOTICE OF INTENT (NOI) AND ACKNOWLEDGEMENT CERTIFICATE FOR PRIMARY OPERATORS OF LARGE CONSTRUCTION SITES, AND THE SITE NOTICE FOR SMALL CONSTRUCTION SITES AND FOR SECONDARY OPERATORS OF LARGE CONSTRUCTION SITES SHALL BE POSTED AT THE SITE.
- 2.) A COPY OF THE TPDES GENERAL PERMIT TXR150000 SHALL BE ATTACHED TO THIS SWPPP.

EROSION AND SEDIMENT CONTROLS

MAINTENANCE/INSPECTION PROCEDURES

1. QUALIFIED PERSONNEL SHALL BE EMPLOYED BY THE OPERATOR TO CONDUCT REQUIRED INSPECTIONS.
2. THE OPERATOR SHALL PROVIDE AND MAINTAIN A RAIN GAUGE UTILIZING MIN. 0.1 INCH INCREMENTS AT THE PROJECT SITE.
3. CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY 7 CALENDAR DAYS. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST PRACTICABLE DATE.
4. INSPECTION SHALL BE PERFORMED BY THE OPERATOR'S REPRESENTATIVE. AN INSPECTION AND MAINTENANCE REPORT SHALL BE MADE FOR EACH INSPECTION AND KEPT AT 950 SIDS ROAD, ROCKWALL, TEXAS 75032. THE INSPECTOR SHALL USE THE OPERATOR INSPECTION FORM IN THE NCTCOG CONSTRUCTION BMP MANUAL OR OTHER FORM APPROVED BY THE OWNER.
5. THE FOLLOWING RECORDS SHALL BE MAINTAINED IN THE PROJECT INSPECTOR'S DAILY LOG:
  - A. DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.
  - B. DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE.
  - C. DATES WHEN STABILIZATION MEASURES ARE INITIATED.
6. THE OPERATOR SHALL SIGN AND POST ON-SITE THE APPROPRIATE TCEQ SITE NOTICE.
7. THE OPERATOR SHALL SIGN AND POST ON-SITE A COPY OF THE TCEQ NOI (FOR PROJECTS THAT DISTURB 5 ACRES OR MORE).
8. THE OPERATOR SHALL PROVIDE THE OWNER WITH A COPY OF ANALYSIS OF STORM WATER RUNOFF SAMPLES REQUIRED BY TCEQ FOR BATCH PLANT OPERATIONS.

OTHER (DESCRIBE) N/A

THE FOLLOWING NON-STORM WATER DISCHARGES FROM SITES AUTHORIZED UNDER THE GENERAL PERMIT ARE ALSO ELIGIBLE FOR AUTHORIZATION UNDER THE GENERAL PERMIT:

- DISCHARGES FROM FIRE FIGHTING ACTIVITIES (FIRE FIGHTING ACTIVITIES DO NOT INCLUDE WASHING OF TRUCKS, RUN-OFF WATER FROM TRAINING ACTIVITIES, TEST WATER FROM FIRE SUPPRESSION SYSTEMS, AND SIMILAR ACTIVITIES);
- \* UNCONTAMINATED FIRE HYDRANT FLUSHINGS (EXCLUDING DISCHARGES OF HYPERCHLORINATED WATER, UNLESS THE WATER IS FIRST DECHLORINATED AND DISCHARGES ARE NOT EXPECTED TO ADVERSELY AFFECT AQUATIC LIFE), WHICH INCLUDE FLUSHINGS FROM SYSTEMS THAT UTILIZE POTABLE WATER, SURFACE WATER, OR GROUNDWATER THAT DOES NOT CONTAIN ADDITIONAL POLLUTANTS (UNCONTAMINATED FIRE HYDRANT FLUSHINGS DO NOT INCLUDE SYSTEMS UTILIZING RECLAIMED WASTEWATER AS A SOURCE WATER);
- WATER FROM THE ROUTINE EXTERNAL WASHING OF VEHICLES, THE EXTERNAL PORTION OF BUILDINGS OR STRUCTURES, AND PAVEMENT, WHERE DETERGENTS AND SOAPS ARE NOT USED AND WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS SPILLED MATERIALS HAVE BEEN REMOVED; AND IF LOCAL STATE, OR FEDERAL REGULATIONS ARE APPLICABLE, THE MATERIALS ARE REMOVED ACCORDING TO THOSE REGULATIONS), AND WHERE THE PURPOSE IS TO REMOVE MUD, DIRT, OR DUST;
- UNCONTAMINATED WATER USED TO CONTROL DUST;
- \* POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS (EXCLUDING DISCHARGES OF HYPERCHLORINATED WATER, UNLESS THE WATER IS FIRST DECHLORINATED AND DISCHARGES ARE NOT EXPECTED TO ADVERSELY AFFECT AQUATIC LIFE);
- UNCONTAMINATED AIR CONDITIONING CONDENSATE;
- UNCONTAMINATED GROUND WATER OR SPRING WATER, INCLUDING FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH INDUSTRIAL MATERIALS SUCH AS SOLVENTS; AND
- LAWN WATERING AND SIMILAR IRRIGATION DRAINAGE;
- \* HYPERCHLORINATED WATER (3.5 MG/L OR GREATER OF FREE CHLORINE) RESULTING FROM WATERLINE STERILIZATION SHALL BE DECHLORINATED AND NOT EXPECTED TO ADVERSELY AFFECT AQUATIC LIFE.

SIGNATORY REQUIREMENTS

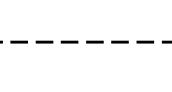
THE OWNER HAS ADOPTED THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) CONSTRUCTION BMP MANUAL. THIS DOCUMENT WAS DEVELOPED AS AN AID FOR THOSE PREPARING STORM WATER POLLUTION PREVENTION PLANS (SW3P'S) FOR VARIOUS CONSTRUCTION ACTIVITIES. THEIR USE DOES NOT RELIEVE THE DESIGN ENGINEER OR OPERATOR(S) FROM COMPLYING WITH THE NCTCOG BMP MANUAL OR THE TEXAS POLLUTION DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION SITES.

THE SW3P SHALL BE SEALED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED BY THE OPERATOR THAT THE INFORMATION IS TRUE AND THAT THEY ASSUME RESPONSIBILITY FOR THE PLAN. ADDITIONALLY, THEY SHALL CERTIFY THAT THE PLAN MEETS STATE AND LOCAL REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL AND STORM WATER QUALITY. IN ALL CASES, A DULY AUTHORIZED REPRESENTATIVE AS INDICATED IN THE GENERAL PERMIT MAY CERTIFY THIS PLAN.

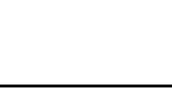
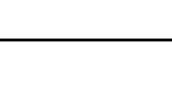
PRIOR TO THE COMMENCEMENT OF WORK ON PROJECTS 5 ACRES OR LARGER THE OPERATOR SHALL SUBMIT NOTICES OF INTENT (NOI) TO DISCHARGE STORM WATER FROM A CONSTRUCTION SITE UNDER THE TPDES PERMIT. NO WORK WILL BE ALLOWED UNTIL COPIES OF ALL APPROPRIATE NOI'S AND CERTIFICATIONS ARE RECEIVED BY THE CITY.

EROSION CONTROL BEST MANAGEMENT PRACTICES DETAILED IN THIS PLAN REDUCE STORMWATER POLLUTION DURING CONSTRUCTION TO THE MAXIMUM EXTENT PRACTICABLE.

CONSULTING ENGINEER:  DATE: JANUARY 18, 2024

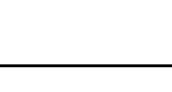
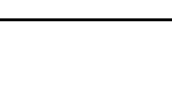
OWNER'S PROJECT MANAGER:  DATE: 

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. I CERTIFY THAT THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE CITY OF ROCKWALL REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL AS ESTABLISHED IN THE NCTCOG BMP MANUAL.

PRINTED NAME:  TITLE: 

SIGNATURE:  (OPERATOR) DATE: 

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE THOROUGHLY REVIEWED THIS STORMWATER POLLUTION PREVENTION PLAN (SW3P) AND THAT I UNDERSTAND AND AGREE TO COMPLY WITH THE TERMS AND CONDITIONS OF THE SW3P INCLUDING BMP INSTALLATION AND MAINTENANCE. I ALSO UNDERSTAND THAT IT IS UNLAWFUL FOR ANY PERSON TO CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS.

PRINTED NAME:  TITLE: 

SIGNATURE:  (CONTRACTOR) DATE: 

**RECORD DRAWING**

NOTE: THIS RECORD DRAWING IS A COMPLIANCE OF THE ORIGINAL SEALED ENGINEERING DRAWING FOR THIS PROJECT. INFORMATION FURNISHED BY THE CONTRACTOR, INCLUDING SURVEY VERIFICATION, TO THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS, INC. STATES THAT THIS PLAN IS AS-BUILT.

11/06/2025  
FRANK A. POKORN, P.E. #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIR NO F-001515

REVISION  
NO. DESCRIPTION DATE

PROJECT NUMBER  
**3036.21**

DATE  
**01/18/2024**

ISSUE

**ISSUED FOR  
CONSTRUCTION  
SUBMITTAL**  
SHEET TITLE

**SWPPP NARRATIVE 2**

CASE# E2023-042  
SHEET NO.

**C12.2-P2**





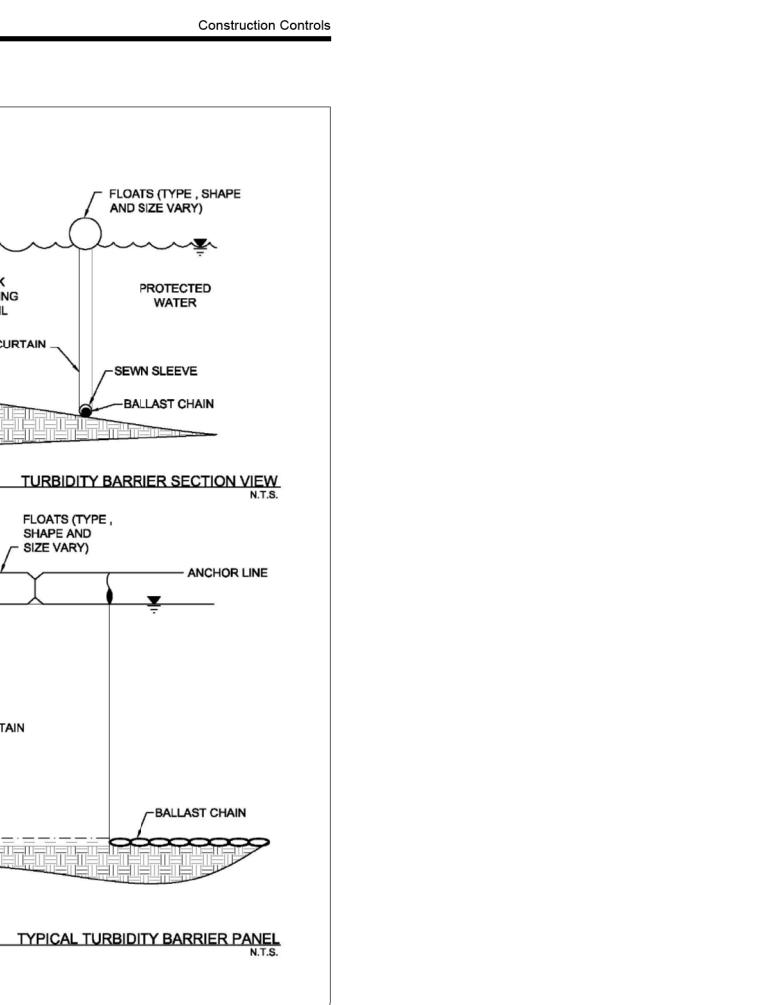
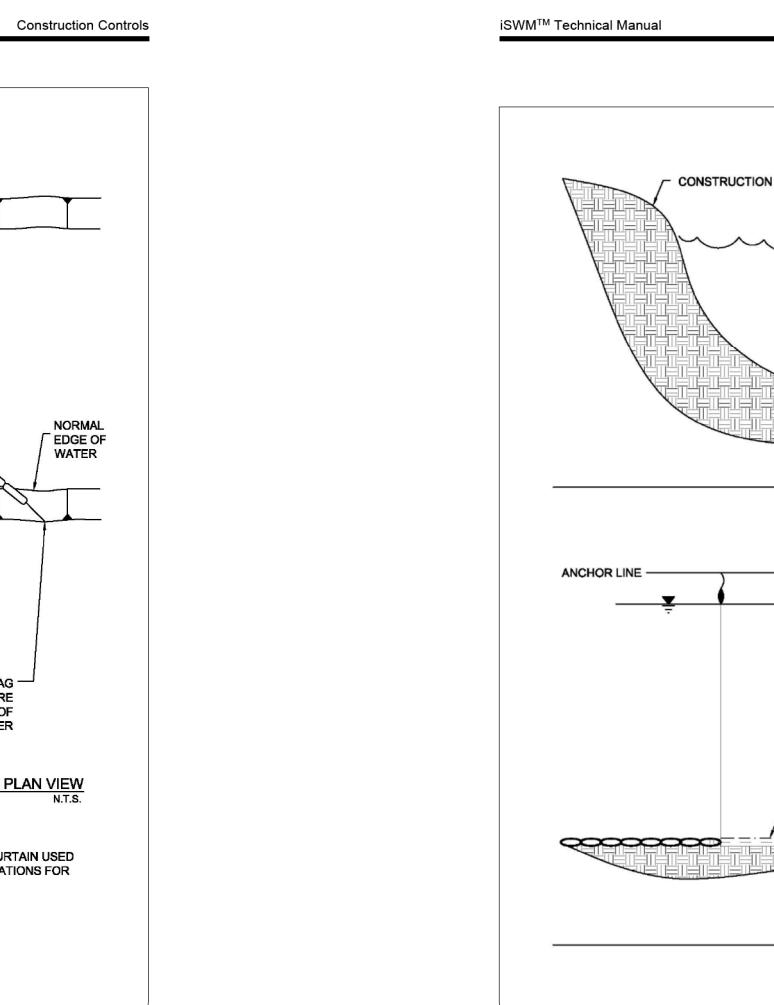
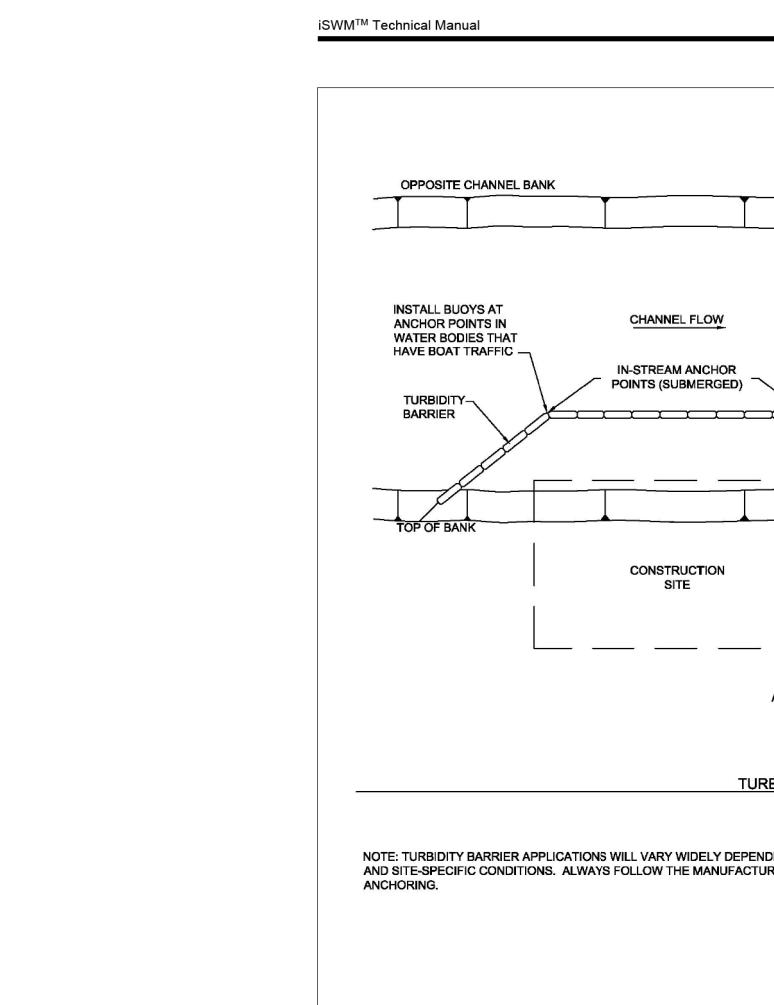
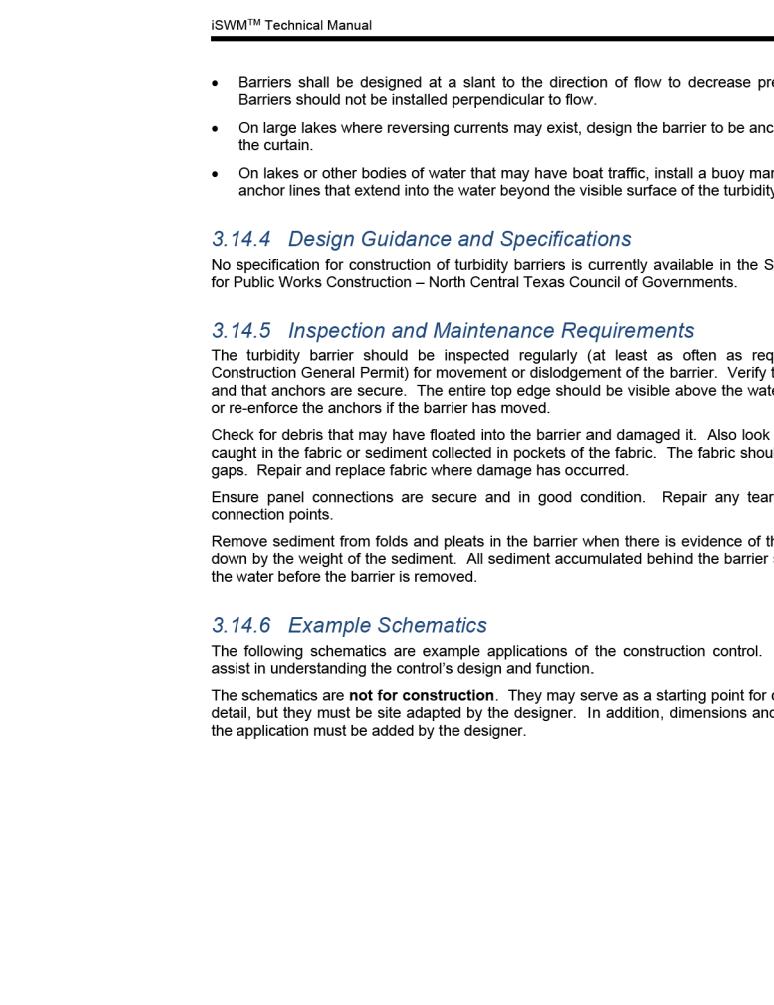
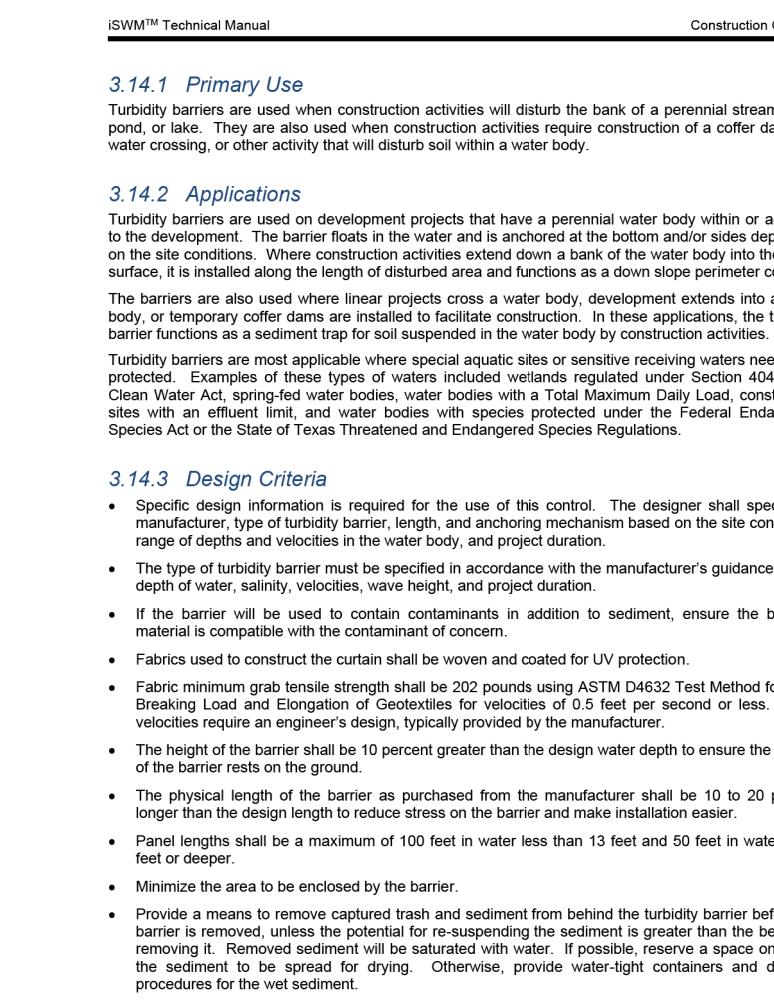
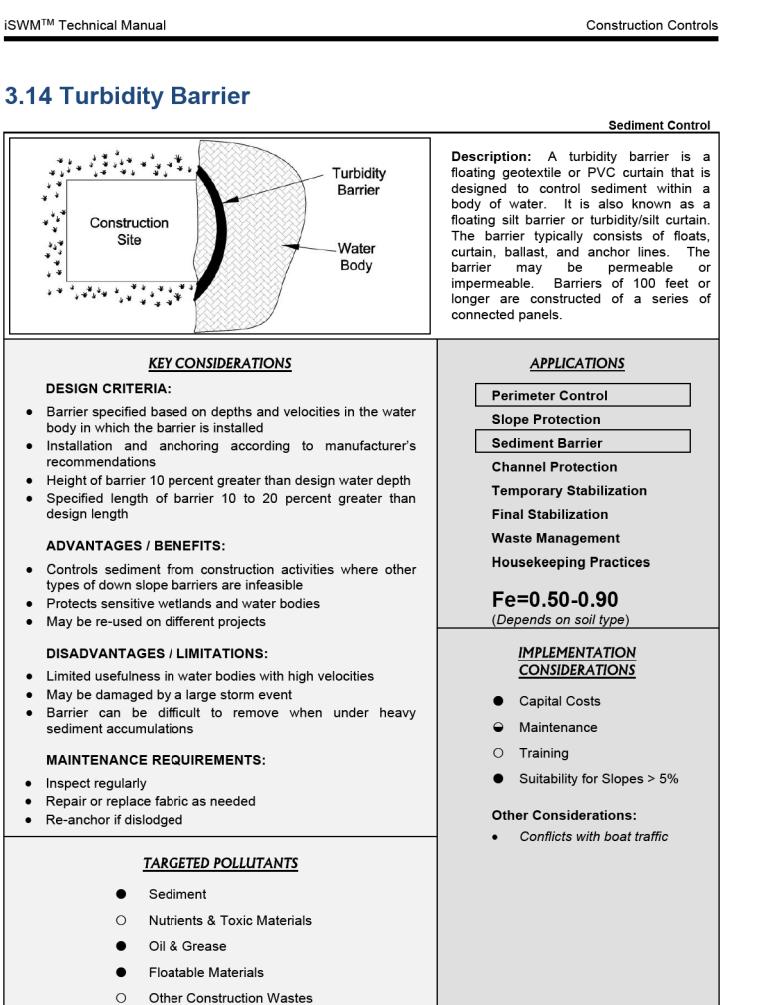
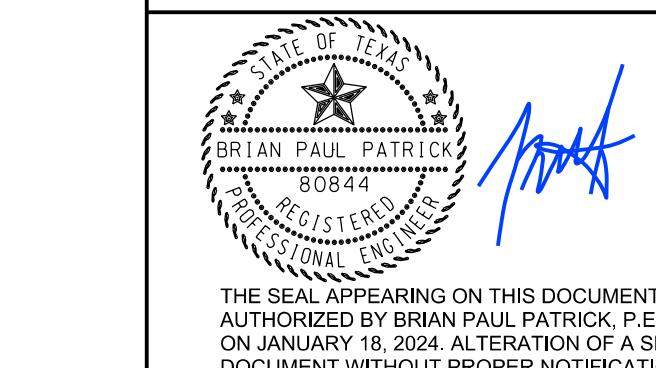
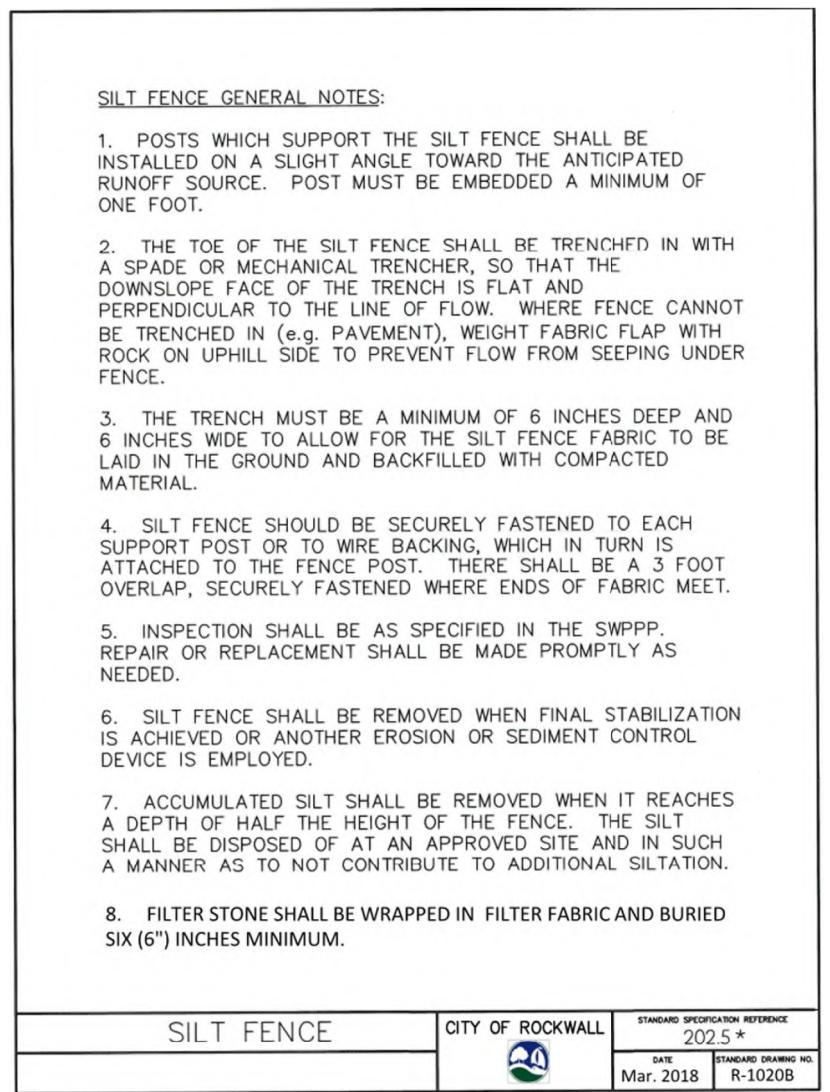
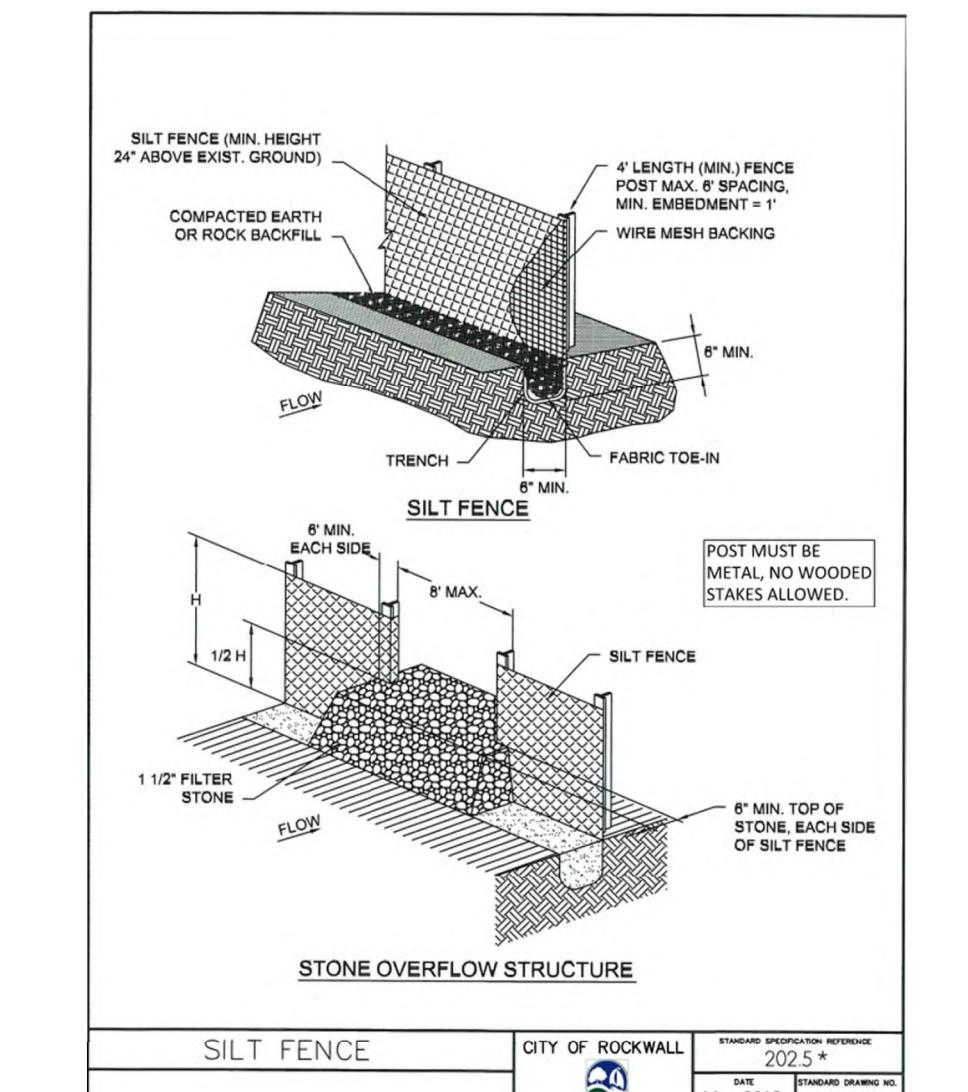
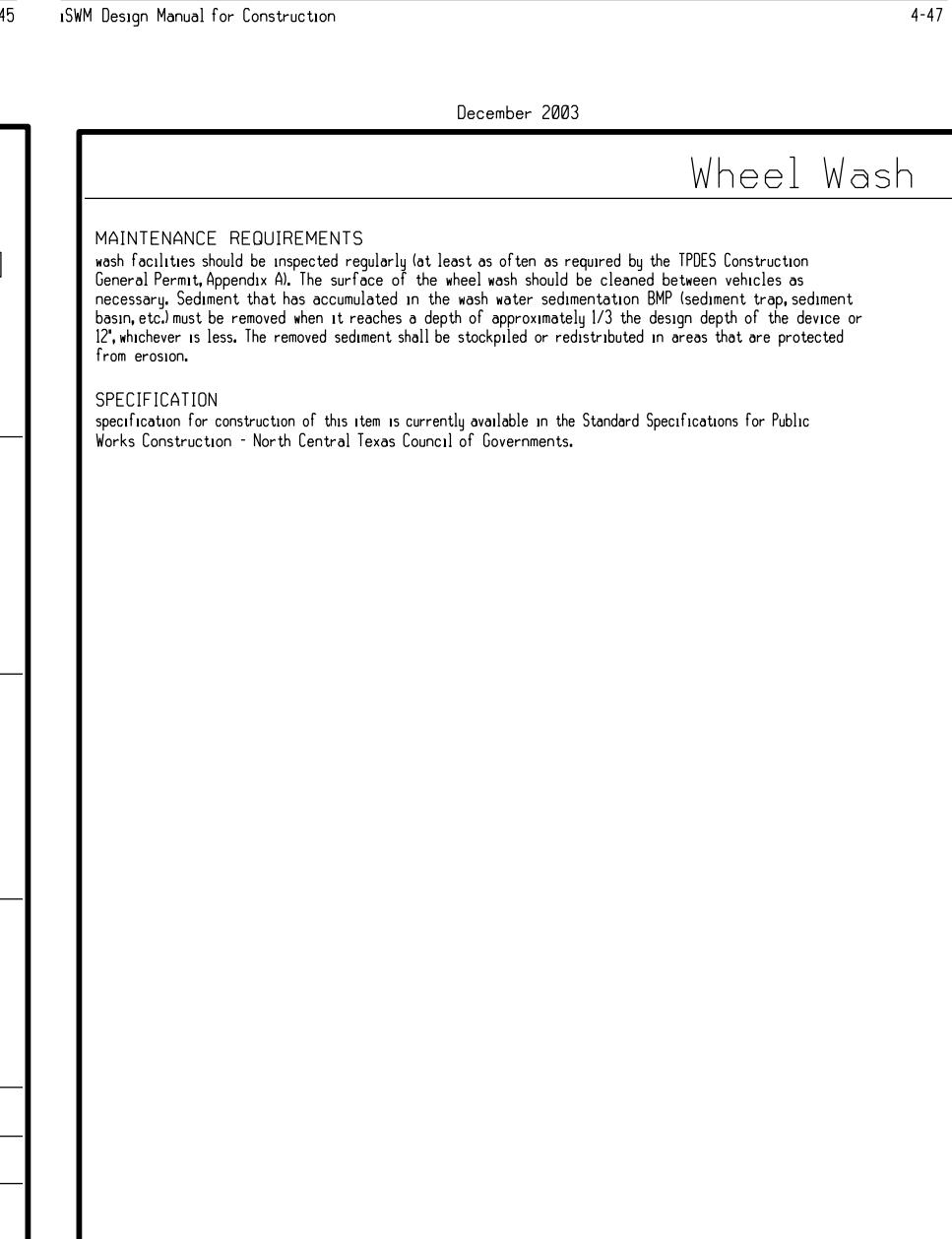
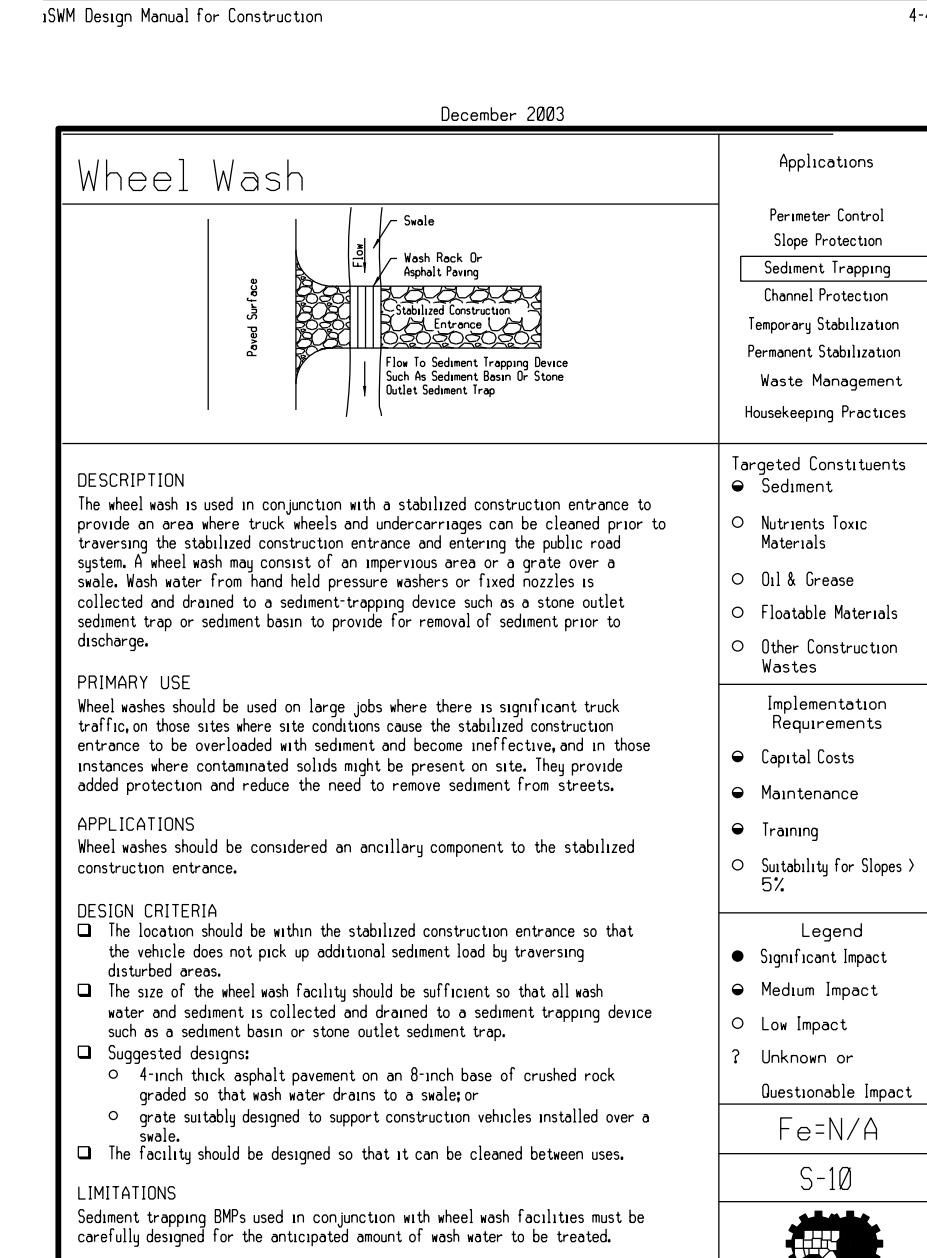
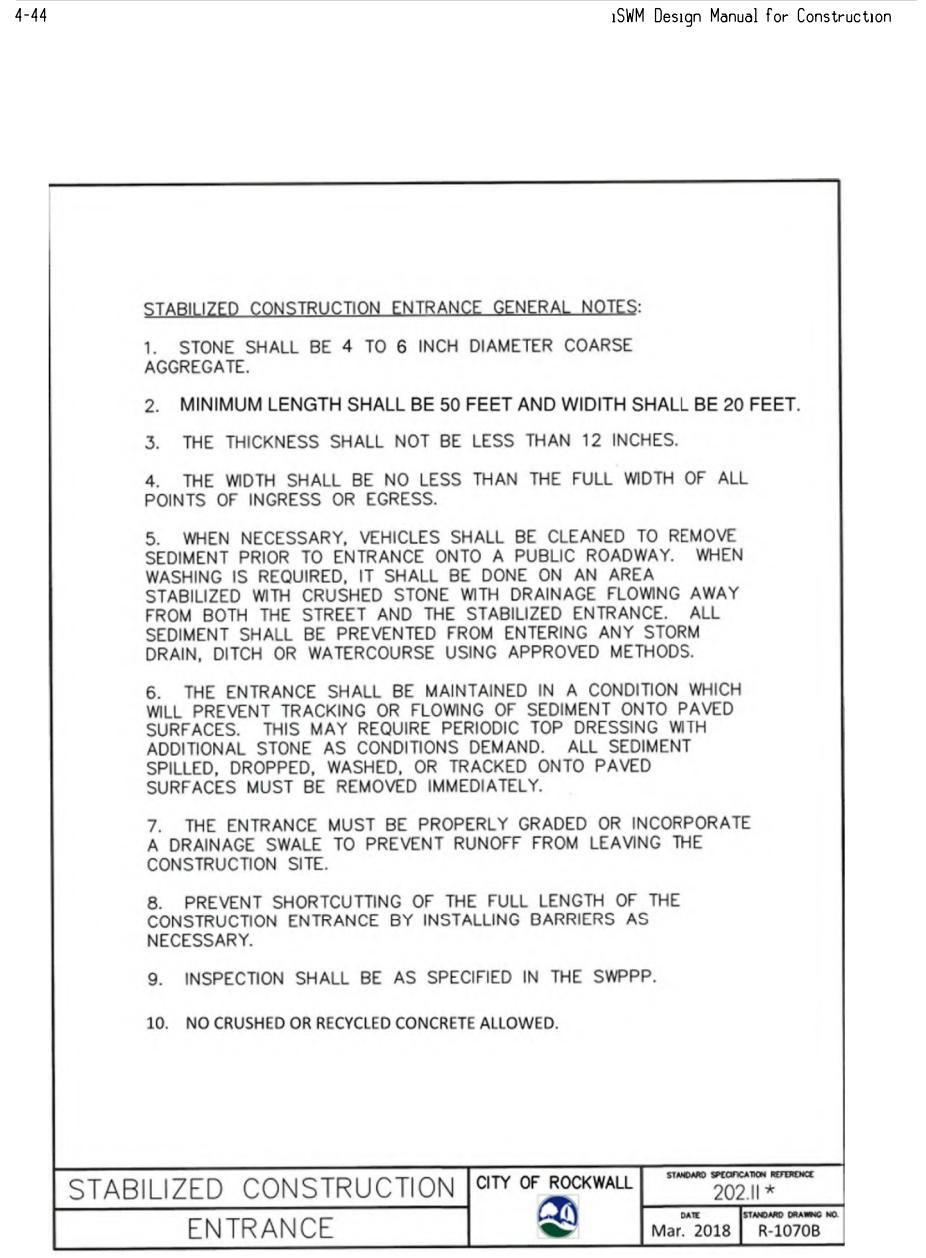
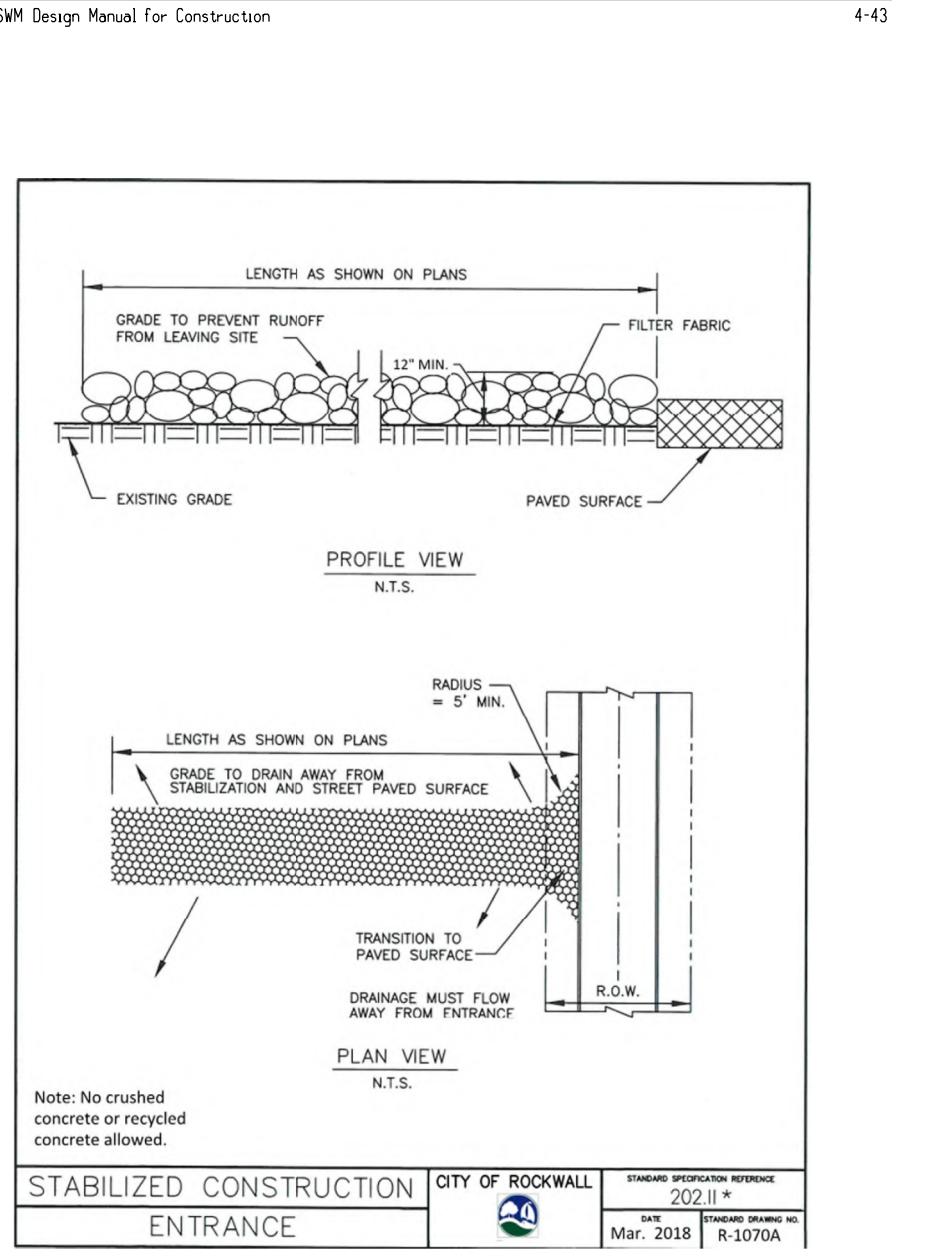
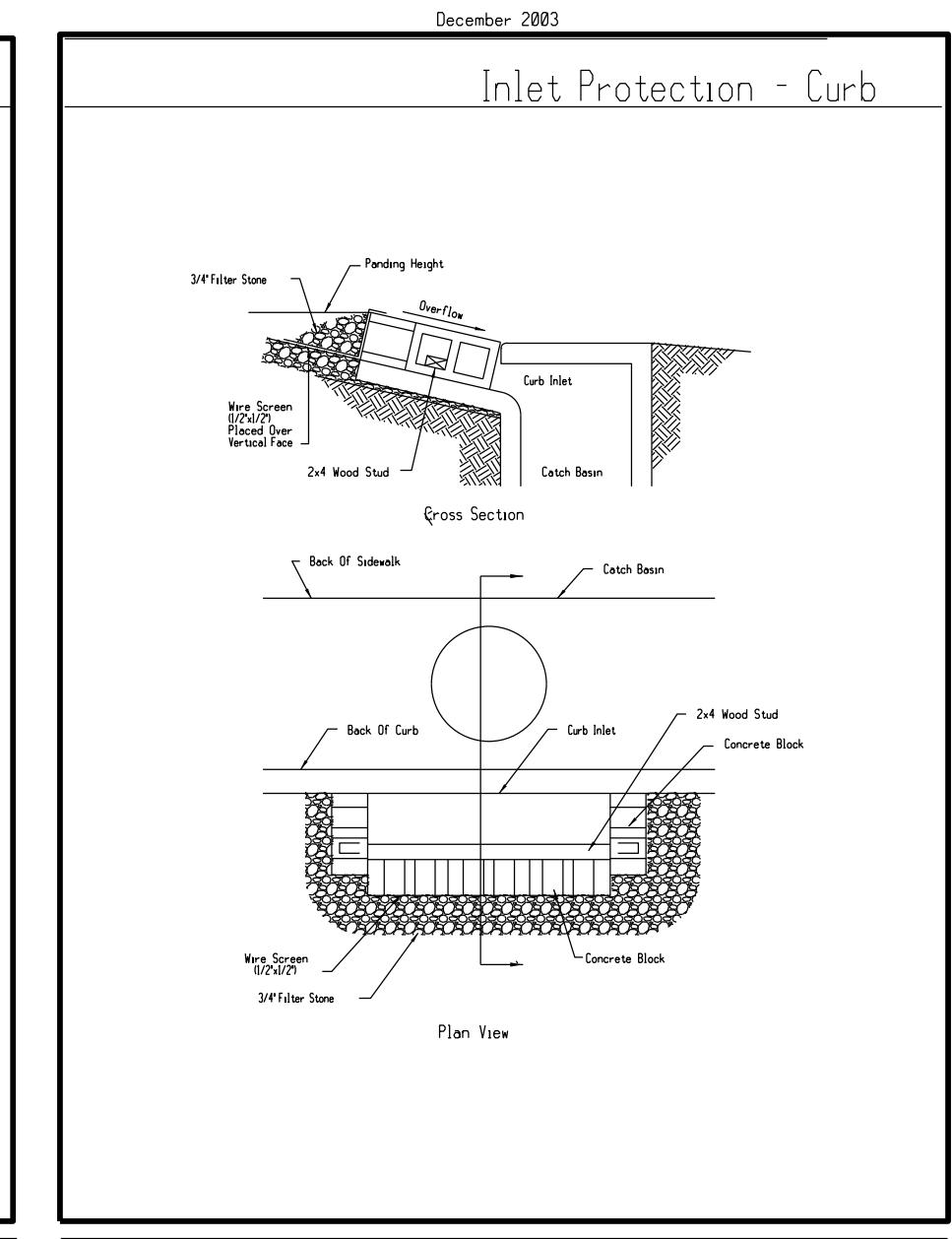
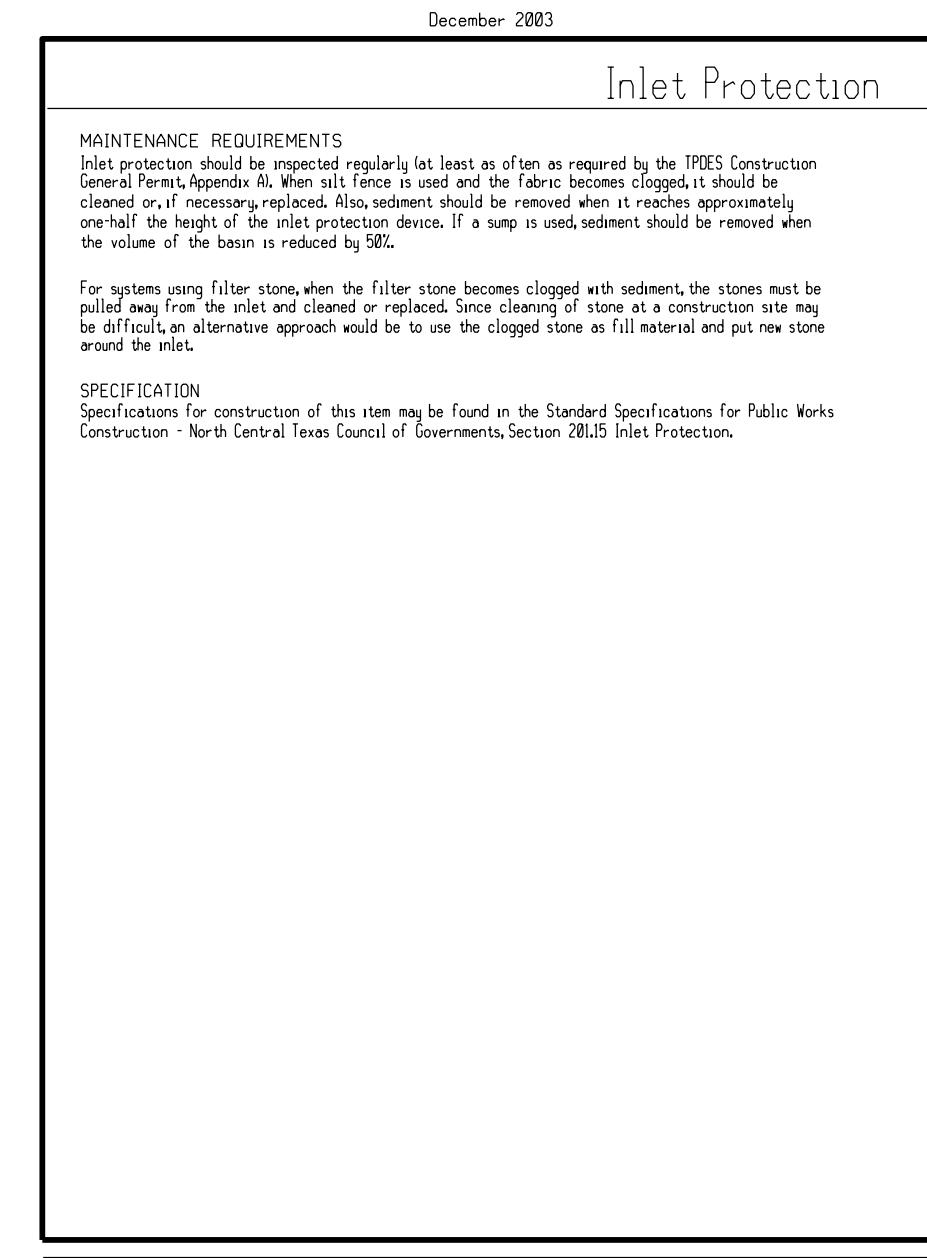
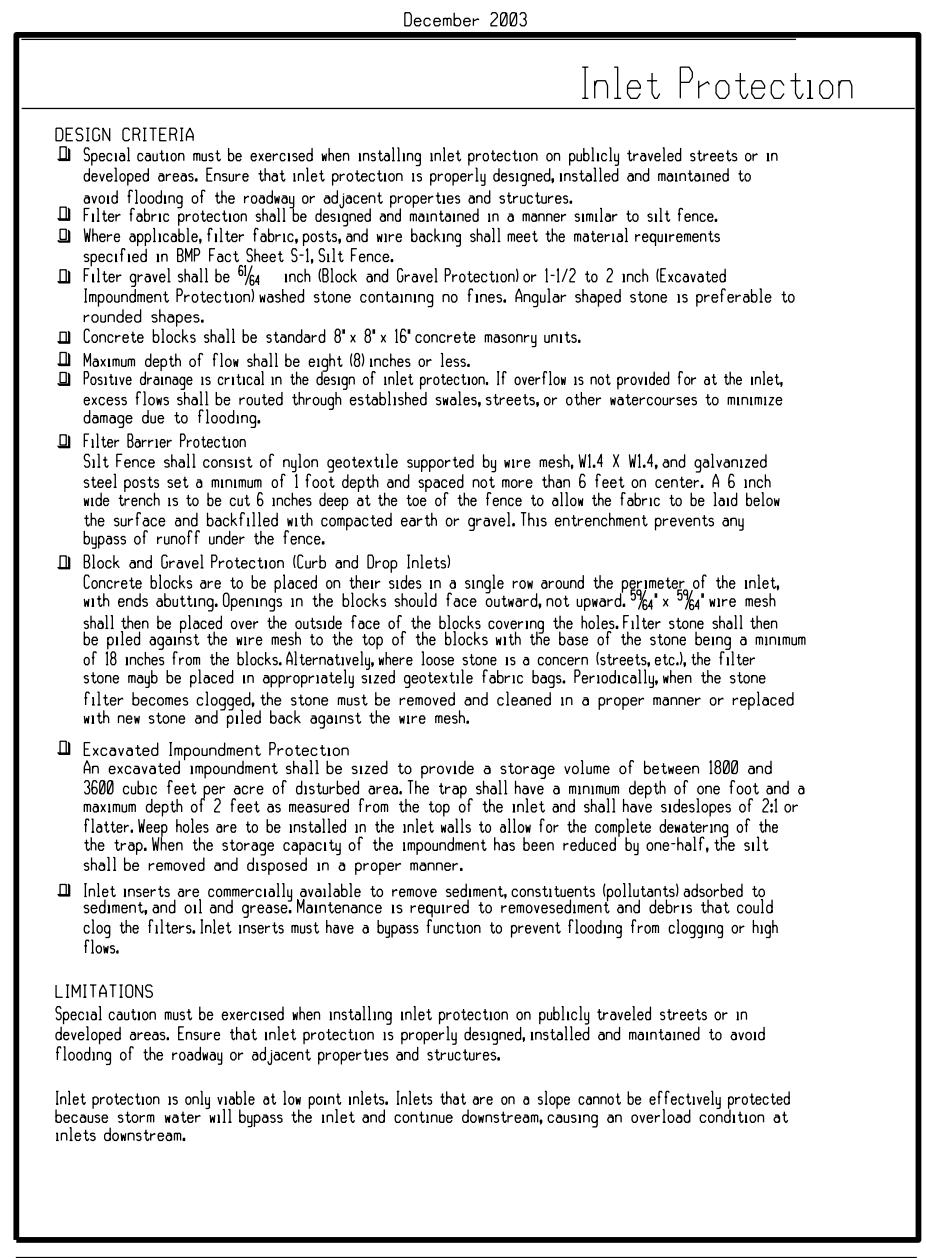
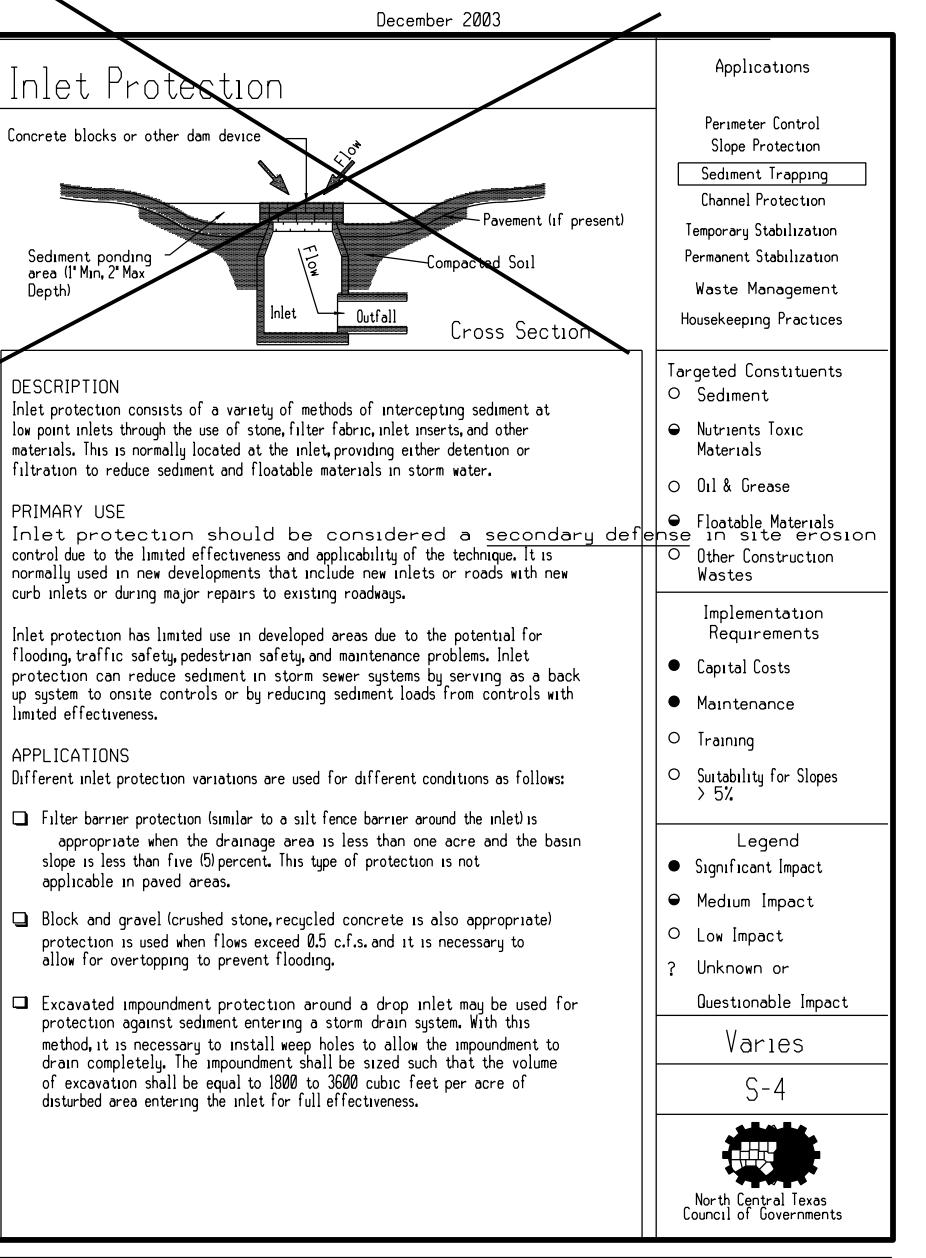


Figure 3.34 Example Application of Turbidity Barrier

Figure 3.35 Schematics of Turbidity Barrier

## DROP INLET DETAIL NOT USED



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**RECORD DRAWING**  
NOTE: THIS RECORD DRAWING IS A COMPILED DRAWING OF THE ORIGINAL SEALED ENGINEERING DRAWING FOR THIS PROJECT. INFORMATION FURNISHED BY THE CONTRACTOR AND FIELD SURVEY VERIFICATION, TO THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS, INC. STATES THAT THE PLAN IS AS-BUILT.

11/06/2025

FRANK A. PATRICK P.E. #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIR NO F-001515

REVISION NO. DESCRIPTION DATE

PROJECT NUMBER  
**3036.21**

DATE  
**01/18/2024**

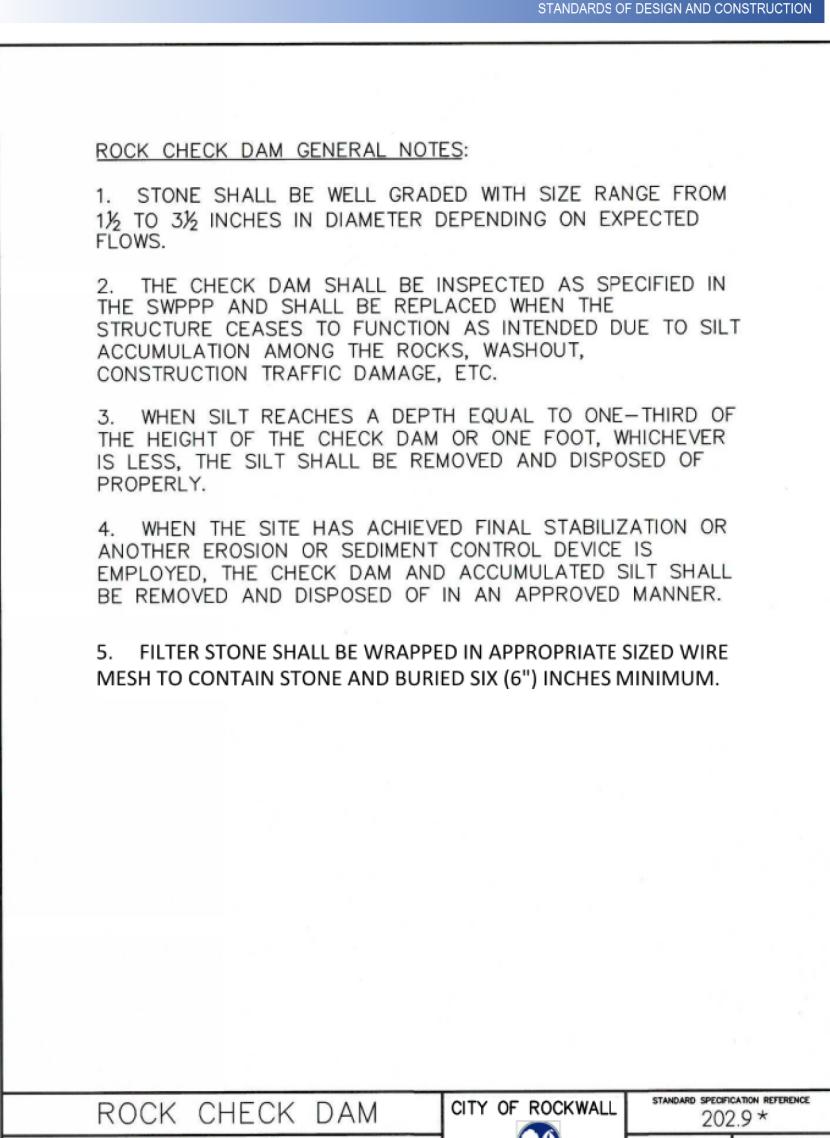
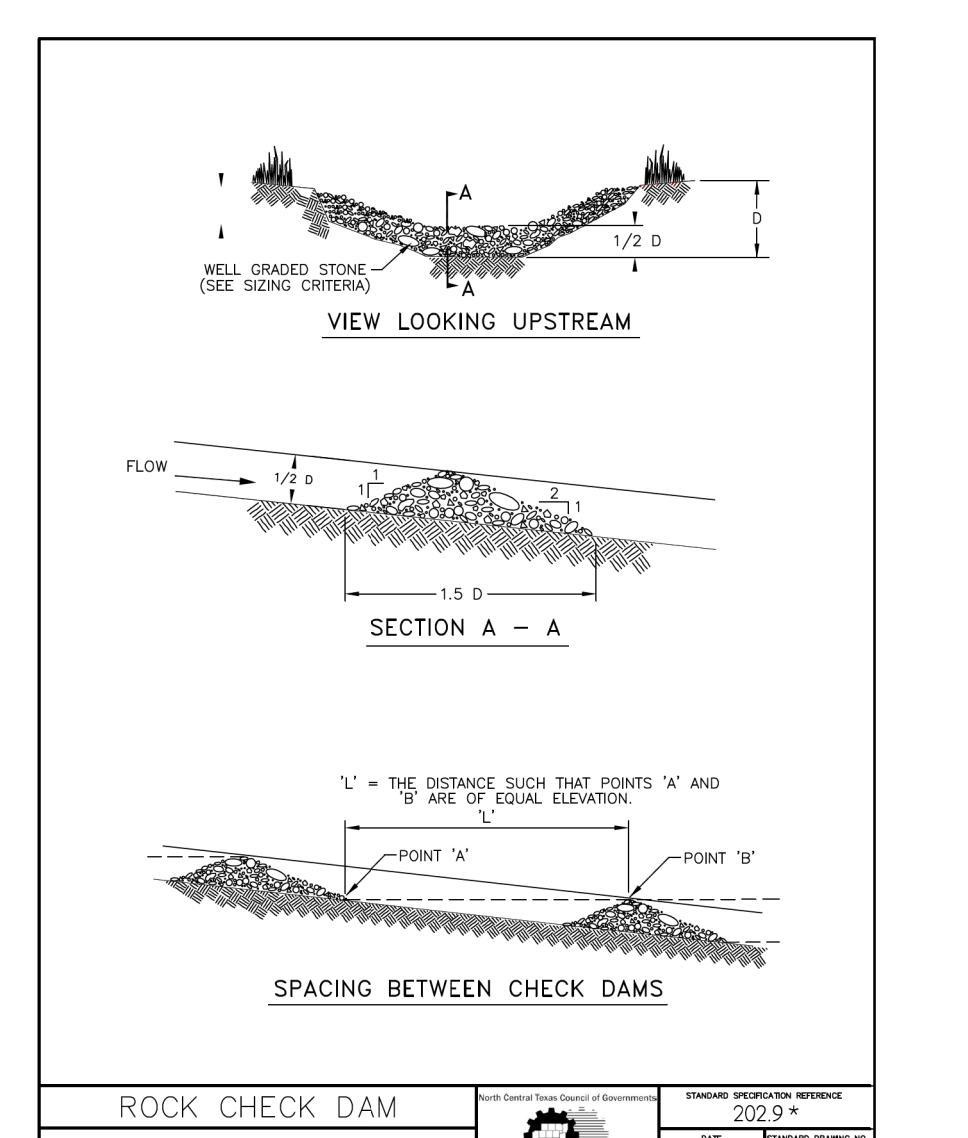
ISSUE  
**ISSUED FOR CONSTRUCTION SUBMITTAL**

SHEET TITLE  
**SWPPP - EROSION & SEDIMENT CONTROL DETAILS**

CASE# E2023-042

SHEET NO.

**C12.5-P2**



\*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standard North Central Texas, Fifth Edition.

CITY OF ROCKWALL STANDARD SPECIFICATION REFERENCE 2023-2 DATE 01/18/2024 DRAWING NUMBER R-10608 DATE Mar. 2018

CITY OF ROCKWALL STANDARD SPECIFICATION REFERENCE 2023-2 DATE 01/18/2024 DRAWING NUMBER R-10608 DATE Mar. 2018

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CITY OF ROCKWALL STANDARD SPECIFICATION REFERENCE 2023-2 DATE 01/18/2024 DRAWING NUMBER R-10608 DATE Mar. 2018

CITY OF ROCKWALL STANDARD SPECIFICATION REFERENCE 2023-2 DATE 01/18/2024 DRAWING NUMBER R-10608 DATE Mar. 2018

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December 2003

**Debris and Trash**

**DESCRIPTION**  
Large volumes of debris and trash are often generated in construction sites and include building materials, waste materials, tools, equipment, and a variety of other materials. There are several techniques and procedures to minimize the potential of stored water contamination from solid waste through appropriate storage and disposal practices. Recycling of construction waste reduces the volume of material to be disposed of and associated costs.

**PRIMARY USE**  
Debris and trash management should be a part of all construction practices. By limiting waste and debris on site, stored water quality is improved along with reduced clean up requirements at the completion of the project.

**APPLICATIONS**  
Solid waste management for construction sites is based on proper storage and disposal by construction workers and supervisors. Key elements of the program are education, modification of disposal habits, communication, and the responsibility of the project manager to workers to ensure that the recommendations and procedures are followed. Following are lists describing the targeted materials and recommended procedures.

**Construction Land Disposal**  
Debris and trash  
Miscellaneous (plastics, wood, etc.)  
Copper (sips and electrical wiring)  
Miscellaneous metal (studs, pipes, conduit, sheathing, nails, etc.)  
Insulation  
Concrete, brick, and mortar  
Stamps  
Roofing materials  
Gypsum board

**Trash**  
Paper and cardboard (packaging, containers, wraps)  
Plastic (packaging, containers, wraps)  
Styrofoam  
Glass and metal containers  
Food and beverage containers  
Food waste

**Storage**  
Workers must minimize production of debris and trash.  
Designate a foreman or supervisor to oversee and enforce proper debris and trash procedures.  
Properly store workers in proper debris and trash storage and handling procedures.  
Segregate potentially hazardous waste from nonhazardous construction waste.  
Segregate recyclable construction debris from other nonrecyclable materials.

**Legend**  
● Significant Impact  
● Medium Impact  
○ Low Impact  
? Unknown or Questionable Impact

**M-1**  
North Central Texas Council of Governments

December 2003

**Debris and Trash Management**

**Applications**

Perimeter Control  
Slope Protection  
Sediment Trapping  
Channel Protection  
Temporary Stabilization  
Permanent Stabilization  
Waste Management  
Housekeeping Practices

**Targeted Constituents**

- Sediment
- Nutrients/Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Keep debris and trash under cover in either a closed dumpster or other enclosed trash container that limits contact with rain and wind and prevents light materials from blowing out.
- Store waste materials away from drainage ditches, seales and catch basins.
- Do not allow trash containers to overflow.
- Prohibit littering by workers and visitors.
- Pollute site daily for litter and debris.
- Enforce solid waste handling and storage procedures.

**Storage**

- General construction debris may be hauled to a licensed construction debris landfill typically less expensive than a sanitary landfill.
- Use waste and recycling haulers/facilities approved by the local jurisdiction.

**Education**

- Train all workers on solid waste storage and disposal procedures.
- Instruct workers in identification of solid waste and hazardous waste.
- Have regular meetings to discuss and reinforce disposal procedures incorporate in regular safety meetings.

**INSTALLATION, APPLICATION AND DISPOSAL CRITERIA**

The chemical management techniques presented here are based on proper recognition, handling and disposal practices by construction workers and management. The following are general guidelines for proper disposal practices, as well as provisions for storage and disposal. Following are lists describing the targeted materials and recommended procedures:

**Targeted Chemical Materials**

- Paints
- Stains
- Wood preservatives
- Oils
- Greases
- Other Construction Wastes

**Implementation Requirements**

- Capital Costs
- Maintenance
- Training
- Suitability for Slopes > 5%

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**M-2**  
North Central Texas Council of Governments

December 2003

**Chemical Management**

**Applications**

Perimeter Control  
Slope Protection  
Sediment Trapping  
Channel Protection  
Temporary Stabilization  
Permanent Stabilization  
Waste Management  
Housekeeping Practices

**Targeted Constituents**

- Sediment
- Nutrients/Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Ensure that adequate hazardous waste storage volume is available.
- Ensure that hazardous waste collection procedures are correctly located.
- Ensure that potentially hazardous waste containers are correctly located.
- Enforce hazardous waste handling and disposal procedures.

**Storage**

- General construction debris may be hauled to a licensed construction debris landfill typically less expensive than a sanitary landfill.
- Use waste and recycling haulers/facilities approved by the local jurisdiction.

**Education**

- Instruct workers on safety procedures for construction site chemical storage.
- Instruct workers in identification of chemical pollutants.
- Educate workers on the importance of proper handling, storage, and disposal procedures.
- Educate workers of potential dangers to humans and the environment from chemical pollutants.
- Educate all workers on chemical storage and disposal procedures.

**IMPLEMENTATION, APPLICATION AND DISPOSAL CRITERIA**

The chemical management techniques presented here are based on proper recognition, handling and disposal practices by construction workers and management. The following are general guidelines for proper disposal practices, as well as provisions for storage and disposal. Following are lists describing the targeted materials and recommended procedures:

**Targeted Chemical Materials**

- Paints
- Stains
- Wood preservatives
- Oils
- Greases
- Other Construction Wastes

**Implementation Requirements**

- Capital Costs
- Maintenance
- Training
- Suitability for Slopes > 5%

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**M-3**  
North Central Texas Council of Governments

December 2003

**Chemical Management**

**Applications**

Perimeter Control  
Slope Protection  
Sediment Trapping  
Channel Protection  
Temporary Stabilization  
Permanent Stabilization  
Waste Management  
Housekeeping Practices

**Targeted Constituents**

- Sediment
- Nutrients/Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Ensure that adequate storage volume is available.
- Ensure that hazardous waste collection procedures are correctly located.
- Ensure that potentially hazardous waste containers are correctly located.
- Enforce hazardous waste handling and disposal procedures.

**Storage**

- General construction debris may be hauled to a licensed construction debris landfill typically less expensive than a sanitary landfill.
- Use waste and recycling haulers/facilities approved by the local jurisdiction.

**Education**

- Instruct workers on safety procedures for construction site chemical storage.
- Instruct workers in identification of chemical pollutants.
- Educate workers on the importance of proper handling, storage, and disposal procedures.
- Educate workers of potential dangers to humans and the environment from chemical pollutants.
- Educate all workers on chemical storage and disposal procedures.

**IMPLEMENTATION, APPLICATION AND DISPOSAL CRITERIA**

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- Wood preservatives
- Oils
- Greases
- Other Construction Wastes

**Implementation Requirements**

- Capital Costs
- Maintenance
- Training
- Suitability for Slopes > 5%

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**M-4**  
North Central Texas Council of Governments

December 2003

**Concrete Waste Management**

**Applications**

Perimeter Control  
Slope Protection  
Sediment Trapping  
Channel Protection  
Temporary Stabilization  
Permanent Stabilization  
Waste Management  
Housekeeping Practices

**Targeted Constituents**

- Sediment
- Nutrients/Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Ensure that adequate hazardous waste storage volume is available.
- Ensure that hazardous waste collection procedures are correctly located.
- Ensure that potentially hazardous waste containers are correctly located.
- Enforce hazardous waste handling and disposal procedures.

**Storage**

- General construction debris may be hauled to a licensed construction debris landfill typically less expensive than a sanitary landfill.
- Use waste and recycling haulers/facilities approved by the local jurisdiction.

**Education**

- Instruct workers on safety procedures for construction site chemical storage.
- Instruct workers in identification of chemical pollutants.
- Educate workers on the importance of proper handling, storage, and disposal procedures.
- Educate workers of potential dangers to humans and the environment from chemical pollutants.
- Educate all workers on chemical storage and disposal procedures.

**IMPLEMENTATION, APPLICATION AND DISPOSAL CRITERIA**

The chemical management techniques presented here are based on proper recognition, handling and disposal practices by construction workers and management. The following are general guidelines for proper disposal practices, as well as provisions for storage and disposal. Following are lists describing the targeted materials and recommended procedures:

**Targeted Chemical Materials**

- Paints
- Stains
- Wood preservatives
- Oils
- Greases
- Other Construction Wastes

**Implementation Requirements**

- Capital Costs
- Maintenance
- Training
- Suitability for Slopes > 5%

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**M-5**  
North Central Texas Council of Governments

December 2003

**Concrete Waste Management**

**Applications**

Perimeter Control  
Slope Protection  
Sediment Trapping  
Channel Protection  
Temporary Stabilization  
Permanent Stabilization  
Waste Management  
Housekeeping Practices

**Targeted Constituents**

- Sediment
- Nutrients/Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Use pre-determined disposal sites for waste concrete.
- Rollback dumping areas are prohibited anywhere but pre-determined areas.
- Use a permitted truck or hauler to transport waste.
- Educate drivers and operators on proper disposal and equipment cleaning procedures.

**Storage**

- Minimal cost impact for training and monitoring.
- Concrete disposal cost depends on availability and distance to suitable disposal areas.
- Additional costs involved in equipment washing could be significant.

**Education**

- Education and training programs are one part of a comprehensive construction site waste management program.

**IMPLEMENTATION, APPLICATION AND DISPOSAL CRITERIA**

Concrete waste is present at most construction sites. This BMP should be utilized at sites where concrete waste is present.

**Targeted Constituents**

- Sediment
- Nutrients/Toxic Materials
- Oil & Grease
- Floatable Materials
- Other Construction Wastes

**Implementation Requirements**

- Capital Costs
- Maintenance
- Training
- Suitability for Slopes > 5%

**Legend**

- Significant Impact
- Medium Impact
- Low Impact
- ? Unknown or Questionable Impact

**M-6**  
North Central Texas Council of Governments

iSM Design Manual for Construction

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iSM Design Manual for Construction

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iSM Design Manual for Construction

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iSM Design Manual for Construction

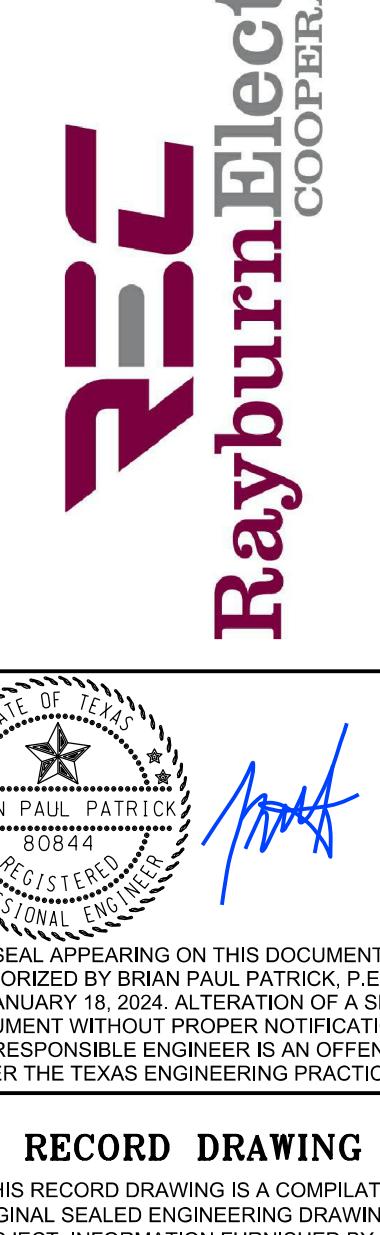
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iSM Design Manual for Construction

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iSM Design Manual for Construction

4-77



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11/06/2025  
FRANK A. POKORNÝ, P.E. #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

iSM Design Manual for Construction

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iSM Design Manual for Construction

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REVISION  
NO. DESCRIPTION DATE

December 2003

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REVISION  
NO. DESCRIPTION DATE

December 2003

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REVISION  
NO. DESCRIPTION DATE

December 2003

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REVISION  
NO. DESCRIPTION DATE

December 2003

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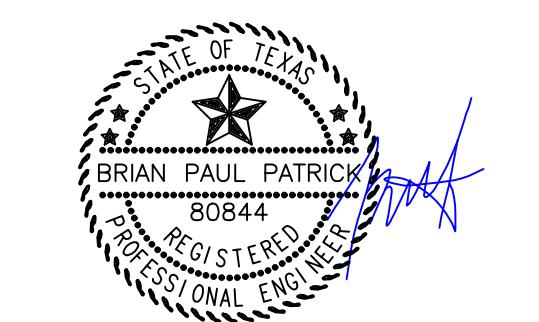
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NO. DESCRIPTION DATE

December 2003

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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED  
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RECORD DRAWING  
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THE ORIGINAL SEALED ENGINEERING DRAWING FOR  
THIS PROJECT. INFORMATION FURNISHED BY THE  
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THE BEST OF OUR KNOWLEDGE, R-DELTA ENGINEERS,  
INC. STATES THAT THE PLAN IS AS-BUILT.

11/06/2024  
FRANK A. POLMA, P.E., TX #80274  
R-DELTA ENGINEERS, INC.  
TBPE FIRM NO F-001515

REVISION  
NO. DESCRIPTION DATE

PROJECT NUMBER

**3036.21**

DATE

**01/18/2024**

ISSUE

**ISSUE FOR CONSTRUCTION**

**SUBMITTAL**

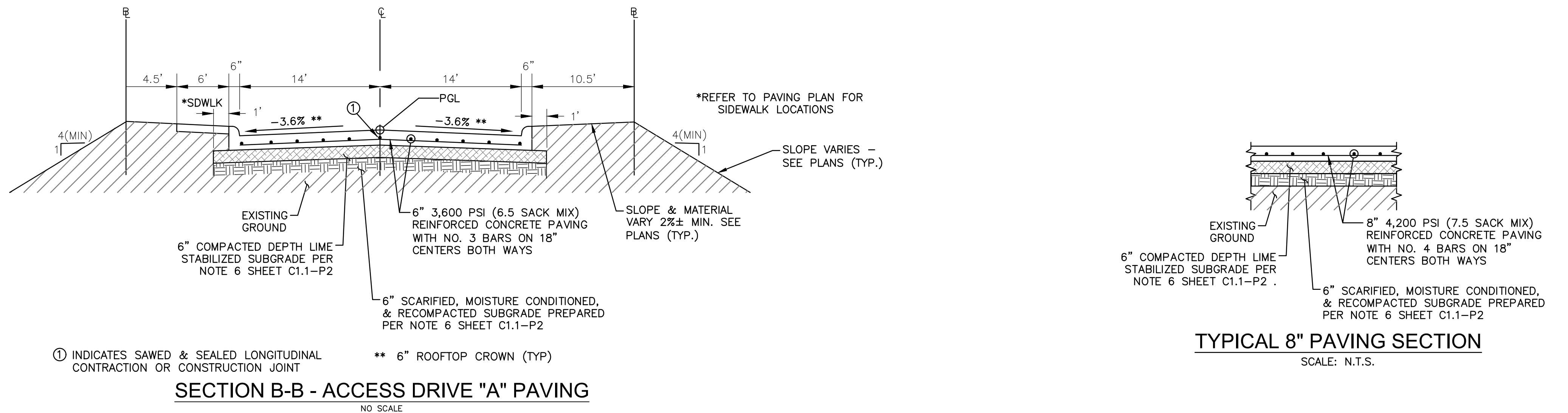
SHEET TITLE

**TYPICAL PAVING  
SECTIONS**

CASE# E2023-042

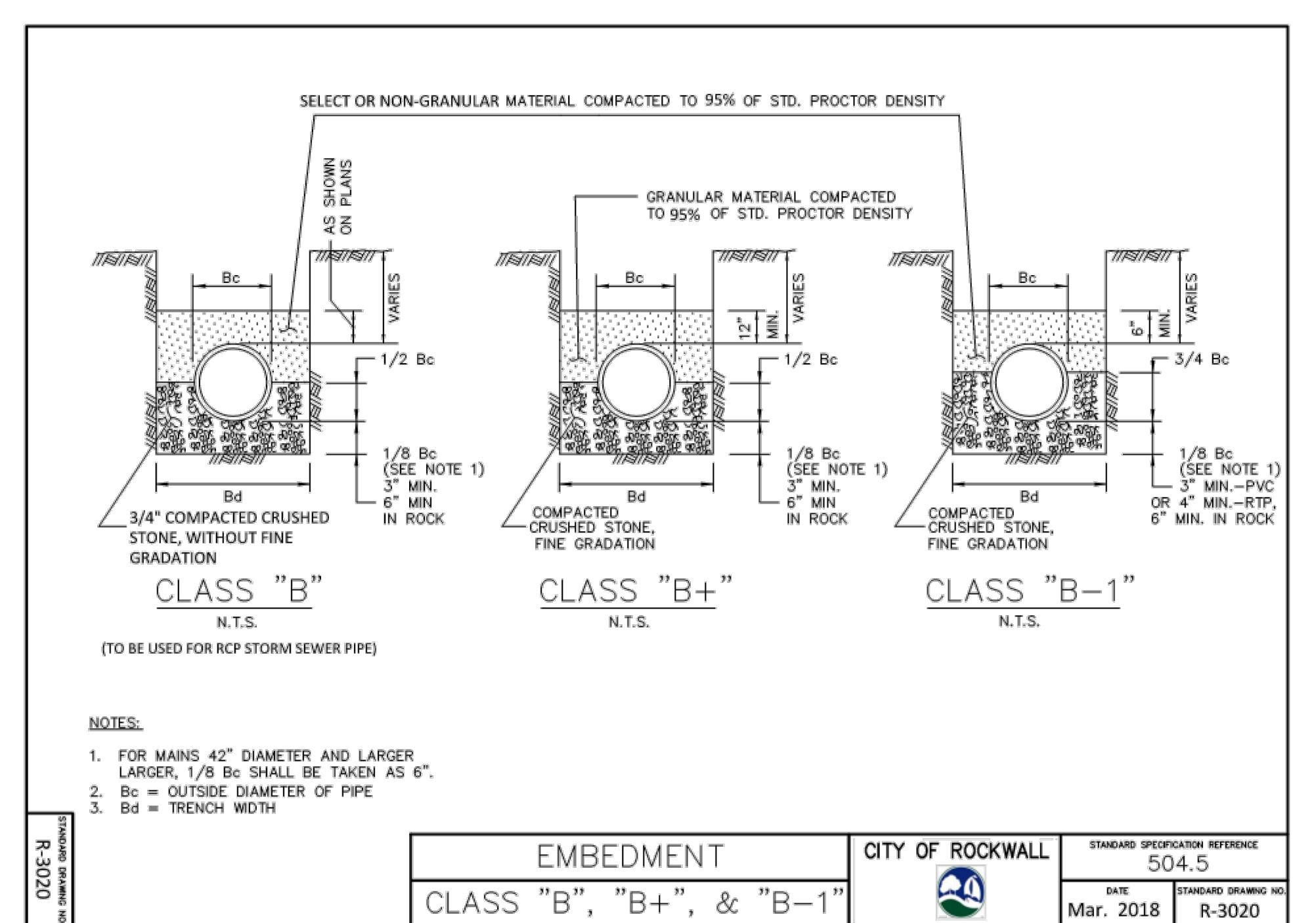
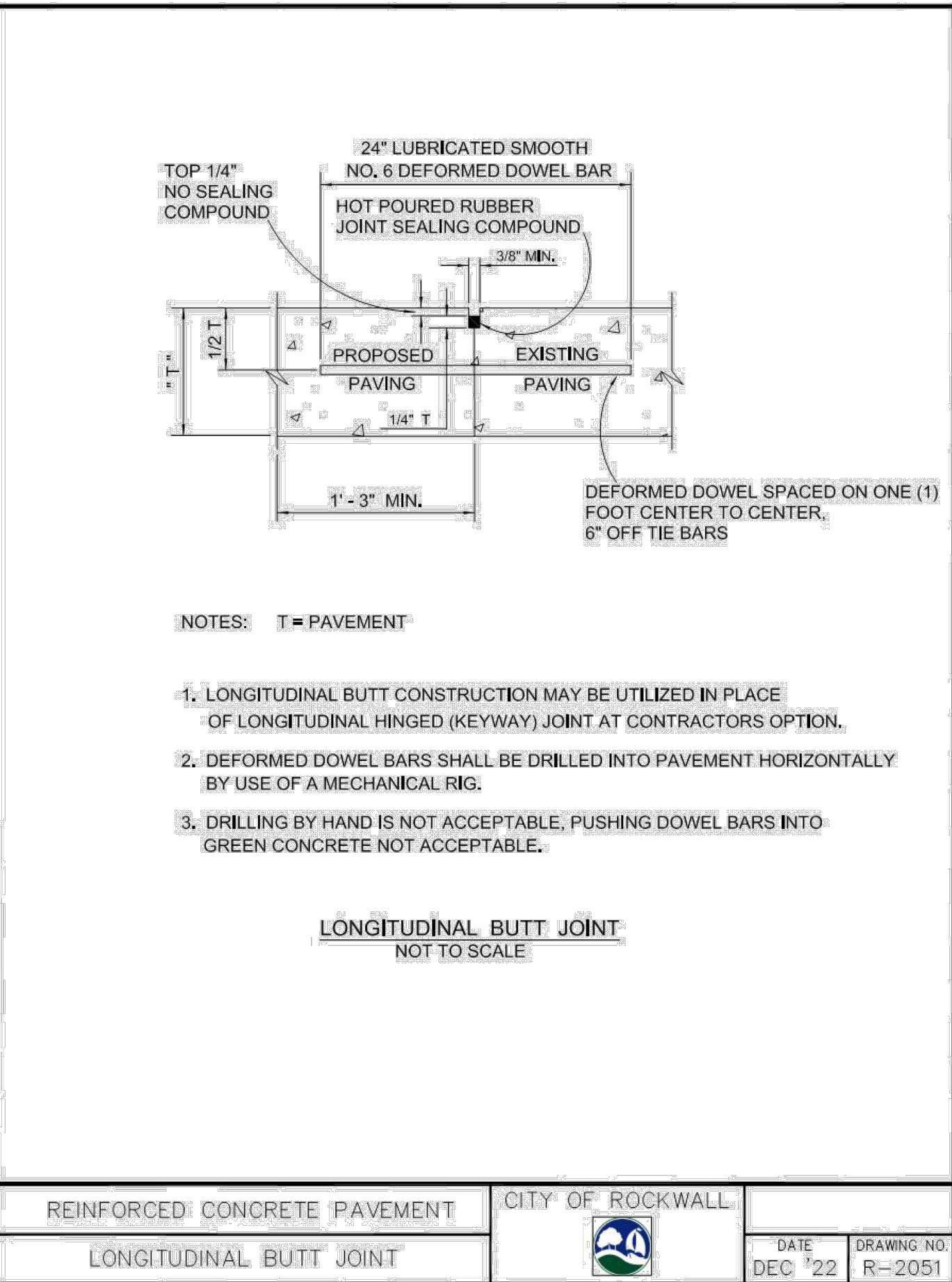
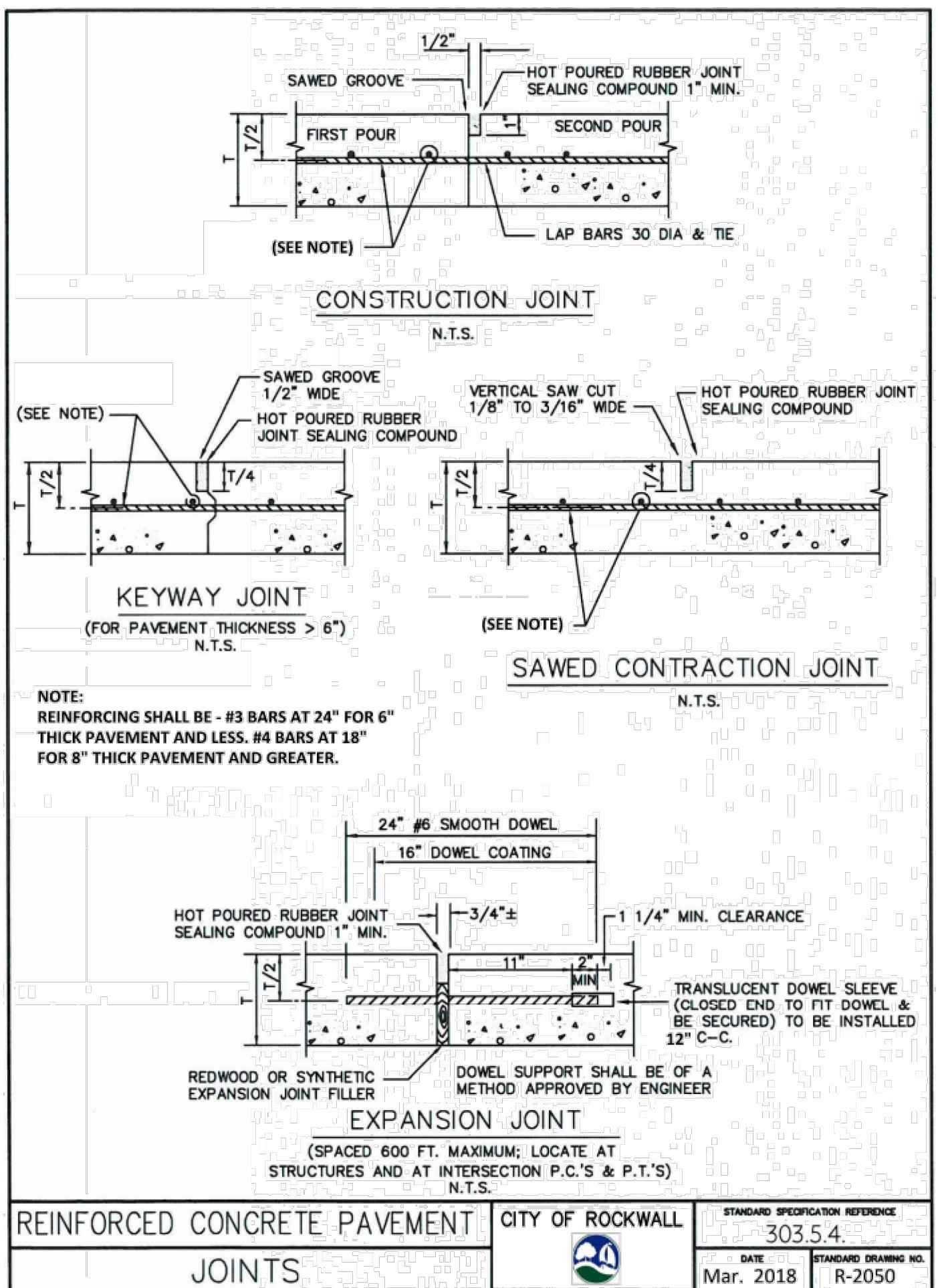
SHEET NO.

**C13.1-P2**



**NOTES:**

- SEE SHEET C1.1-P2 FOR LEGEND, PROJECT CONTROL, AND PROJECT NOTES.
- PROVIDE SAWED & SEALED TRANSVERSE CONTRACTION JOINTS EVERY 15' APART. DEPTH OF JOINTS TO BE 1.5" FOR 6" THICK CONCRETE PAVING.



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

NOTE:  
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

R-6020D  
SHEET DRAWING NO.

CURB INLET  
BILL OF REINFORCING STEEL

CITY OF ROCKWALL  
STANDARD SPECIFICATION REFERENCE  
702  
DATE STANDARD DRAWING NO.  
Mar. 2018 R-6020D

6020D  
SHEET DRAWING NO.

CURB INLET  
REBAR & M.H. FRAME & COVER

CITY OF ROCKWALL  
STANDARD SPECIFICATION REFERENCE  
702  
DATE STANDARD DRAWING NO.  
Mar. 2018 R-6020C

6020C  
SHEET DRAWING NO.

DEPTH "D"	SUMMARY OF QUANTITIES FOR CURB INLETS				
	5'-0" OPENING	10'-0" OPENING	15'-0" OPENING	20'-0" OPENING	
WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"	WIDTH 3'-0"	WIDTH 4'-0"	WIDTH 5'-0"
CONC. STEEL	CONC. STEEL	CONC. STEEL	CONC. STEEL	CONC. STEEL	CONC. STEEL
C.Y. LBS.	C.Y. LBS.	C.Y. LBS.	C.Y. LBS.	C.Y. LBS.	C.Y. LBS.
3'-6" 262	306 2.95 332	328 3.28 373	412 4.79 464	521 5.20 564	569 6.67 640
3'-9" 270	309 3.03 341	339 3.49 384	494 4.78 534	578 5.87 687	658 7.54 796
4'-0" 278	328 3.14 364	349 3.49 384	518 4.92 565	549 610 605	718 7.77 835
4'-3" 287	334 3.23 370	359 4.00 404	451 526	568 619 622	729 6.95 847
4'-6" 295	356 3.32 394	369 4.31 464	558 520	607 759	710 8.34 903
4'-9" 303	361 3.41 410	379 4.39 477	566 534	618 665	780 8.72 936
5'-0" 312	367 3.51 416	390 4.45 490	574 5.47 624	609 674	791 9.85 1035
5'-3" 320	383 3.60 430	410 4.72 492	575 6.09 623	620 704	827 10.85 1065
5'-6" 328	389 3.69 430	410 5.16 608	575 661 638	620 713	837 11.80 1074
5'-9" 337	405 4.05 453	420 5.20 597	575 635 659	689 744	837 12.00 1102
6'-0" 345	415 3.88 460	430 5.04 594	542 646	603 702 668	777 12.85 1120
6'-3" 353	425 3.97 470	441 5.16 593	555 661	713 763	808 12.94 1147
6'-6" 362	437 4.08 486	451 5.13 592	568 681	731 763	835 13.05 1167
6'-9" 370	441 4.15 490	461 5.17 593	581 688	747 712	866 13.15 1187
7'-0" 378	460 4.25 510	471 5.16 594	594 716	752 777	887 13.25 1207
7'-3" 386	465 4.35 516	481 5.17 597	602 724	752 785	894 13.35 1227
7'-6" 395	477 4.43 529	491 5.17 597	606 729	752 786	900 13.45 1247
7'-9" 403	491 4.53 544	502 5.17 597	633 762	752 786	908 13.55 1258
8'-0" 412	496 4.62 550	512 6.04 646	646 702	752 786	916 13.65 1266
8'-3" 420	504 4.71 559	522 6.13 659	784 728		





Existing Tree Listing  
Rayburn Electric Cooperative Rockwell Campus, PHASE II  
October 20, 2023

Location Key	Size DBH (inches)	Description	Common Name	Comments	Tree Designation	Removal Status	Replacement Caliper Inches
501	12	M.T.	Eastern Red Cedar		X	Removed	6
502	14	M.T.	Eastern Red Cedar		X	Removed	7
503	12		Eastern Red Cedar		X	Removed	6
504	14		Eastern Red Cedar		X		
505	11		Eastern Red Cedar		X		
506	14		Eastern Red Cedar		X		
507	11		Eastern Red Cedar		X	Removed	6.5
508	10		Eastern Red Cedar		X	Removed	10
509	18		Bois D'Arc		X	Removed	
510	5		Bradford Pear		X	Removed	5
511	31	M.T.	Bois D'Arc		X	Removed	
512	7		Hercules Club		X	Removed	7
513	32		Bois D'Arc		X	Removed	
514	12		Eastern Red Cedar		X	Removed	6
515	6		Bois D'Arc		X	Removed	
516	9	M.T.	Bois D'Arc		X	Removed	
517	8		American Elm		X	Removed	8
518	10		Eastern Red Cedar		X	Removed	
519	4		Persimmon		X	Removed	4
520	30	M.T.	White Ash		X	Removed	17
521	10		Cedar Elm		X	Removed	10
522	6		White Ash		X	Removed	6
523	9		Slippery Elm	Dead	X	Removed	
524	11		Eastern Red Cedar		X	Removed	6.5
525	25	M.T.	Bois D'Arc		X	Removed	
526	35	M.T.	Bois D'Arc		X	Removed	
527	7		Bois D'Arc		X	Removed	
528	14		White Ash		X	Removed	14
529	28	M.T.	Bois D'Arc		X	Removed	
530	14	M.T.	Eastern Red Cedar		X	Removed	7
531	10	M.T.	Eastern Red Cedar		X	Removed	
532	9	M.T.	Bois D'Arc		X	Removed	
533	25	M.T.	Bois D'Arc		X	Removed	
534	14	M.T.	Hawthorn		X	Removed	7
535	10		Hawthorn		X	Removed	
536	9	M.T.	Bois D'Arc		X	Removed	
537	11		Eastern Red Cedar		X	Removed	
538	8		White Ash		X	Removed	
539	13	M.T.	Eastern Red Cedar		X	Removed	
540	17		White Ash	Mitigated in Phase 1	X	Removed	
541	11		Hawthorn	Mitigated in Phase 1	X	Removed	
542	8		Slippery Elm	Mitigated in Phase 1	X	Removed	
543	13		Hawthorn	Mitigated in Phase 1	X	Removed	
544	14	M.T.	Eastern Red Cedar	Mitigated in Phase 1	X	Removed	

TOTAL REPLACEMENT INCHES REQUIRED: 132.0  
PHASE 1 MITIGATION CREDITS: 3.5  
MITIGATION INCHES REQUIRED: 128.5  
NUMBER OF TREES REQUIRED TO SATISFY MITIGATION: 33

