

ENGINEERING PLANS FOR THE CONSTRUCTION OF

OFFSITE SANITARY SEWER (OSS) - COLLIN COUNTY

FOR

LIGHT FARMS

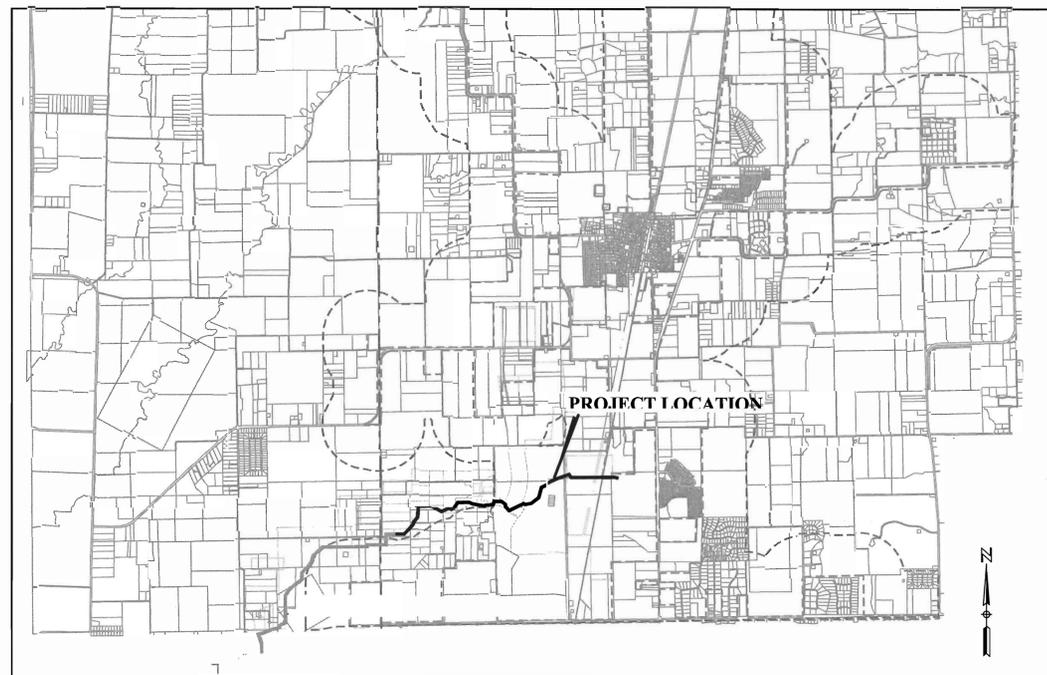
CITY OF CELINA, TEXAS

GENERAL NOTES

- 1.) The Contractor shall have in his possession prior to the commencement of construction all necessary permits, licenses, etc.
- 2.) All work shall conform to the N.C.T.C.O.G. standards and specifications, Third Edition, January 1998, unless otherwise indicated on the plans and specifications. In the event an item is not covered in the N.C.T.C.O.G. standards and specifications, the district engineer's decision shall apply. In the event of a conflict with N.C.T.C.O.G., the design engineer shall be notified to provide clarification.
- 3.) Prior to any construction the Contractor shall familiarize himself with the contract documents, specifications, and plans including all notes. Failure on the part of the Contractor to familiarize himself with the designated standards and specifications pertaining to this work shall in no way relieve the Contractor of his responsibility for performing the work in accordance with all such standards and specifications.
- 4.) The owners engineer will perform certain construction staking. Reference the construction documents, which outline the scope of this service.
5. The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The Contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities.
6. It will be the responsibility of each Contractor to protect all existing public and private utilities throughout the construction of this project. Contractor shall contact the appropriate utility companies for line locations at least 48 hours prior to commencement of construction and shall assume full liability to those companies for any damages caused to their facilities.

City of Celina, general information	(972) 382-2682
CoServ	(800) 274-4014
Upper Trinity Regional Water District	(972) 219-1228
GTE Telecommunications	(800) 344-8377
TXU Electric	(817) 992-8107
Atmos Energy (Field Engineer Robin Richardson)	(972) 485-6204
7. All Contractors must confine their activities to the work area. No encroachments onto adjacent developed or undeveloped property areas will be allowed unless specified in the plans. Any damage resulting therefrom shall be the Contractor's responsibility to repair.
- 8.) Other construction may be underway at the same time and in the general area of the subject project. It shall be the responsibility of the Contractor to notify and coordinate with other Contractors to determine a construction schedule that will offer the least hindrance to all involved. The owner's engineer will be notified of all coordination. In the event of a scheduling conflict the owner's engineer shall be notified immediately.
9. Construction inspection will be performed by representatives of the owner, engineer, geotechnical engineer, and reviewing authorities and agencies. Unrestricted access shall be provided to them at all times. Contractor is responsible for understanding and scheduling required inspections.
- 10.) The Contractor shall be required to provide and maintain all necessary warning and safety devices (flashing lights, barricades, signs, etc., in conformance with the Texas Manual on Uniform Traffic Control, latest edition) to protect public safety and health until the work has been completed and accepted by the District.
- 11.) See Special Provision regarding saving and protection of trees that are not to be cleared. (Special Condition #7)

SHEET NO.	INDEX OF DRAWINGS
1	COVER SHEET
2	SANITARY SEWER PLAN & PROFILE (STA. 168+45.56 TO STA. 173+00)
3	SANITARY SEWER PLAN & PROFILE (STA. 173+00 TO STA. 183+00)
4	SANITARY SEWER PLAN & PROFILE (STA. 183+00 TO STA. 193+00)
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15	SANITARY SEWER PLAN & PROFILE (STA. 293+00 TO STA. 303+00)
16	SANITARY SEWER PLAN & PROFILE (STA. 303+00 TO STA. 313+00)
17	SANITARY SEWER PLAN & PROFILE (STA. 313+00 TO STA. 323+00)
18	SANITARY SEWER PLAN & PROFILE (STA. 323+00 TO END)
19	DETAILS



PROJECT LOCATION MAP
NTS

DATE	DESCRIPTION	REV. No.
4/18/2008	ISSUED FOR CONSTRUCTION	
REVISIONS AND ISSUE DATES		

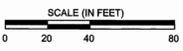
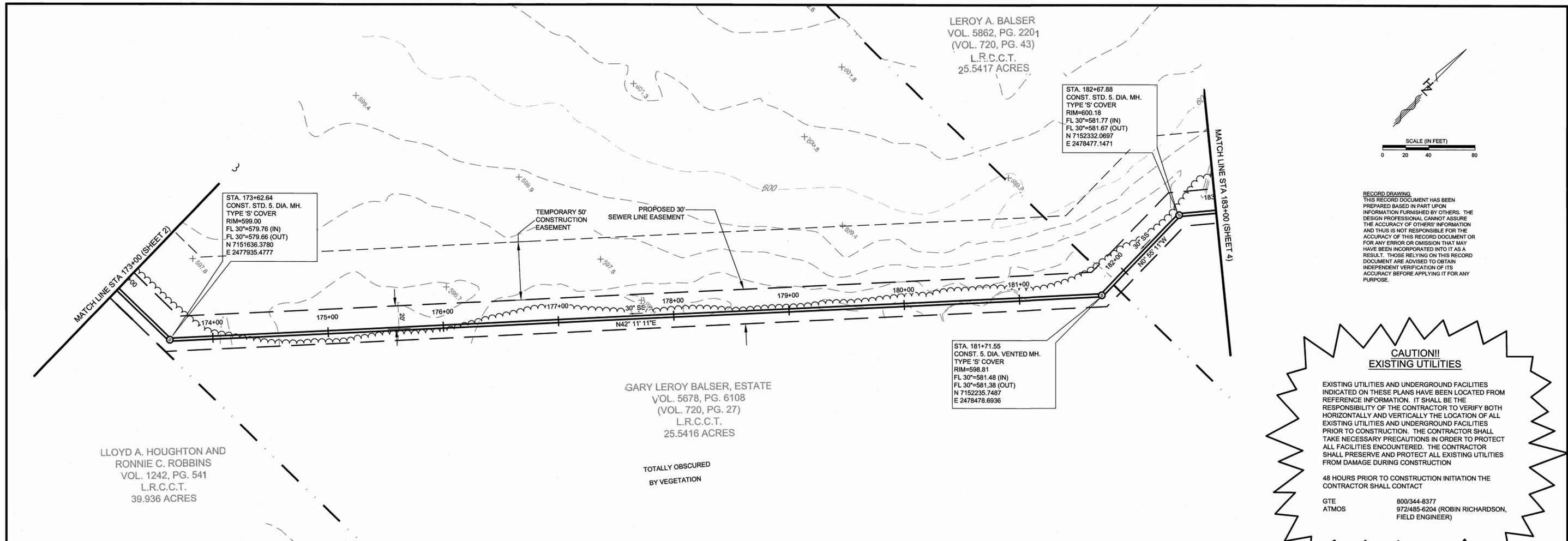
Developer:
Forestar / RPG Land Company, LLC
 Mark Wagner
 8401 North Central Expressway, Suite 350, Dallas, TX 75225
 Phone: 214-292-3410 Fax: 214 292-3411

Prepared For:
THE CITY OF CELINA, TEXAS
 Through:
COLLIN COUNTY MUNICIPAL UTILITY DISTRICT No. 1
 c/o Republic Property Group
 8401 North Central Expressway, Suite 350, Dallas TX 75227
 Phone: 214-292-3410 Fax 214-292-3411

RECORD DRAWING
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PREPARED BY:
HUITT-ZOLLARS
 Huitt-Zollars, Inc.
 3131 McKinney Ave. Ste. 600 Dallas, Texas 75204
 Phone (214) 871-3311 Fax (214) 871-0757





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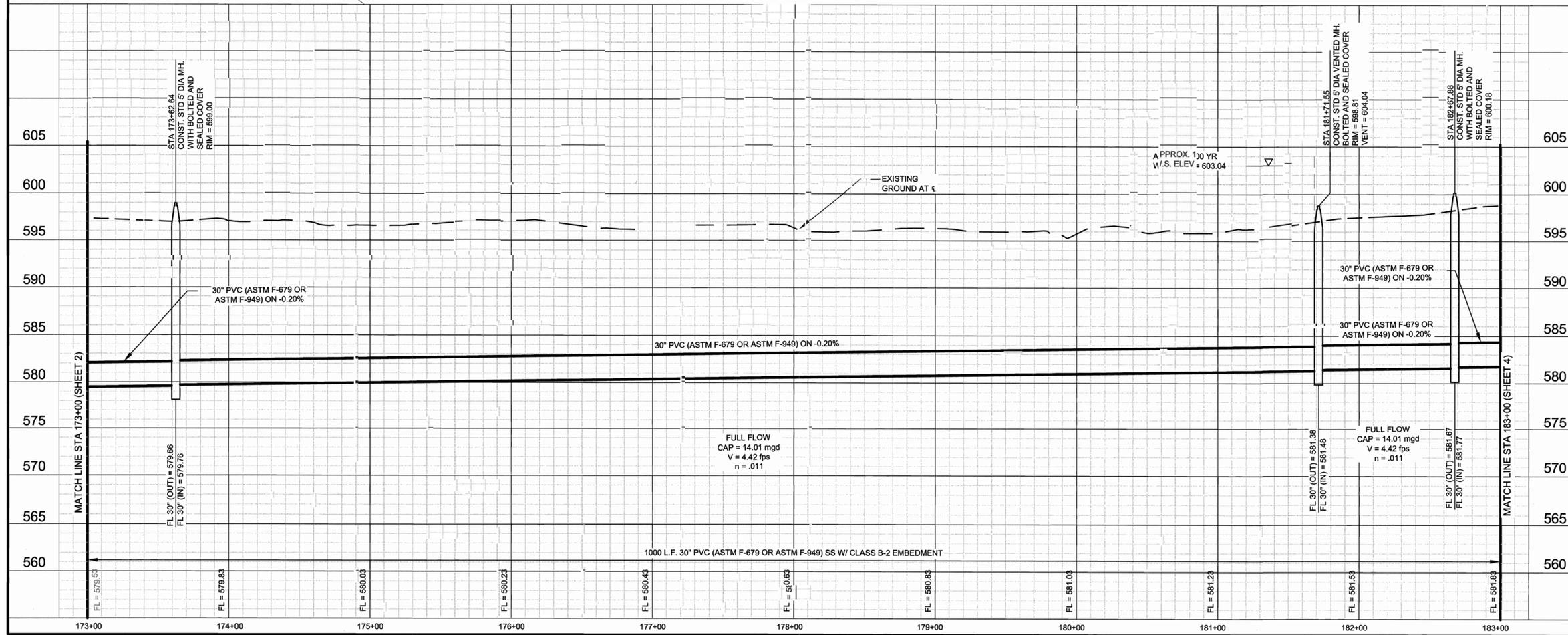
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48 HOURS PRIOR TO CONSTRUCTION INITIATION THE CONTRACTOR SHALL CONTACT

GTE 800/344-8377
 ATMOS 972/485-6204 (ROBIN RICHARDSON, FIELD ENGINEER)



NOTES:

THE CONTRACTOR SHALL CONSTRUCT SHALLOW EARTHEN DITCH AND/OR LOW EARTHEN BERM ON THE DOWNSLOPE SIDE OF THE SANITARY SEWER EASEMENT FOR EROSION CONTROL MEASURES.

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BENCH MARKS:
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 TBM #34-60D NAIL IN POWER POLE, NORTH SIDE OF PARVIN ROAD, 95 FEET± EAST OF SMILEY ROAD. ELEV. = 581.74'

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LIGHT FARMS OSS - COLLIN COUNTY
STA. 173+00 TO STA. 183+00
REPUBLIC PROPERTY GROUP

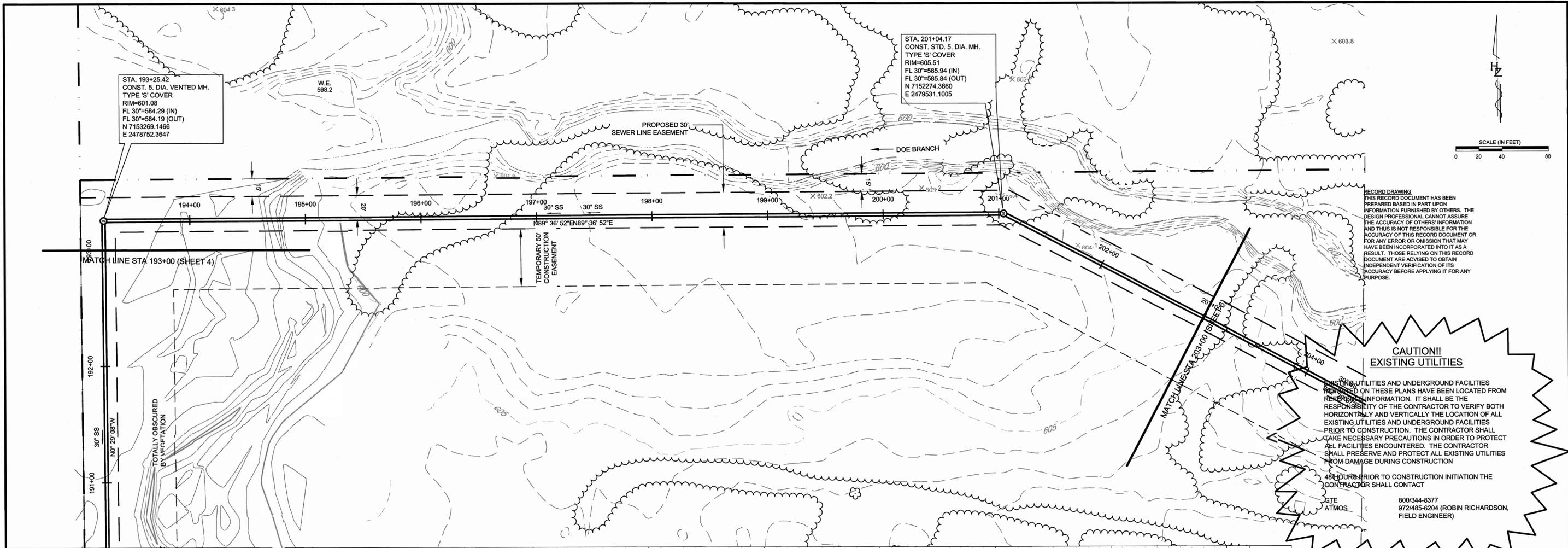
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CELINA, TEXAS

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19



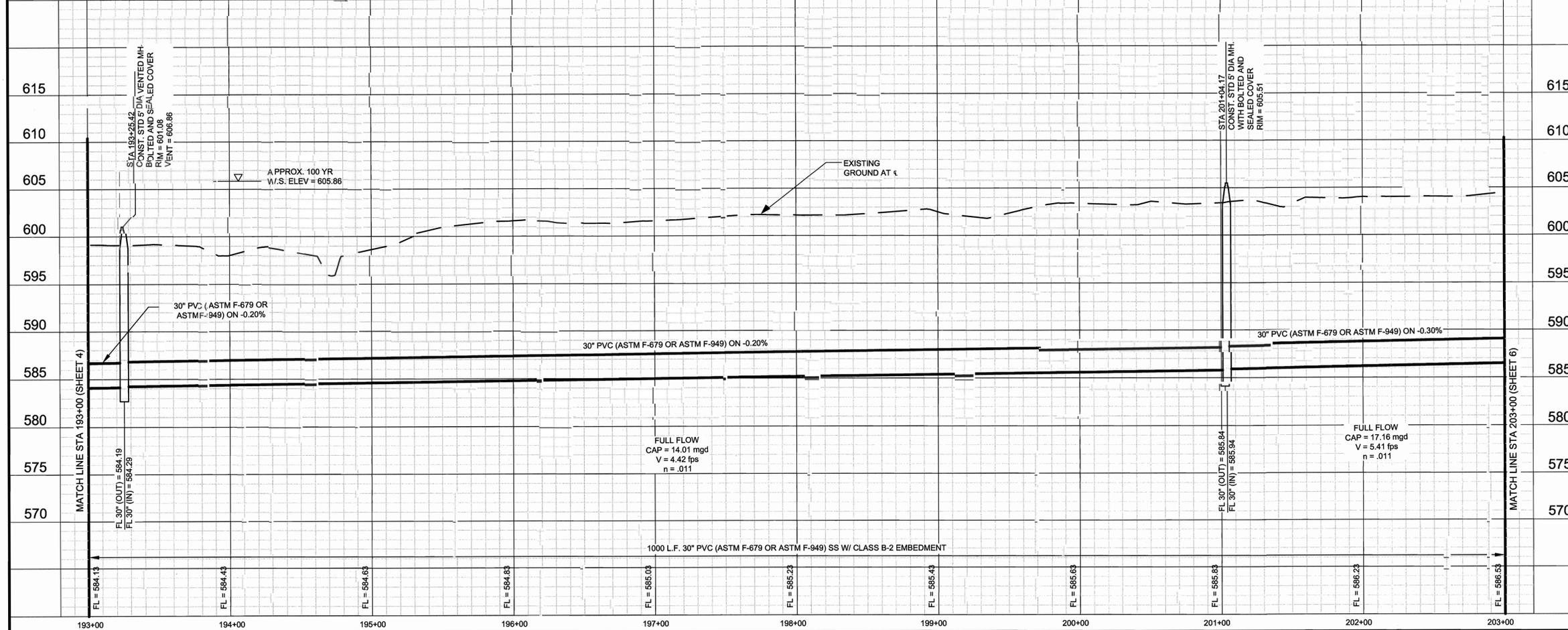


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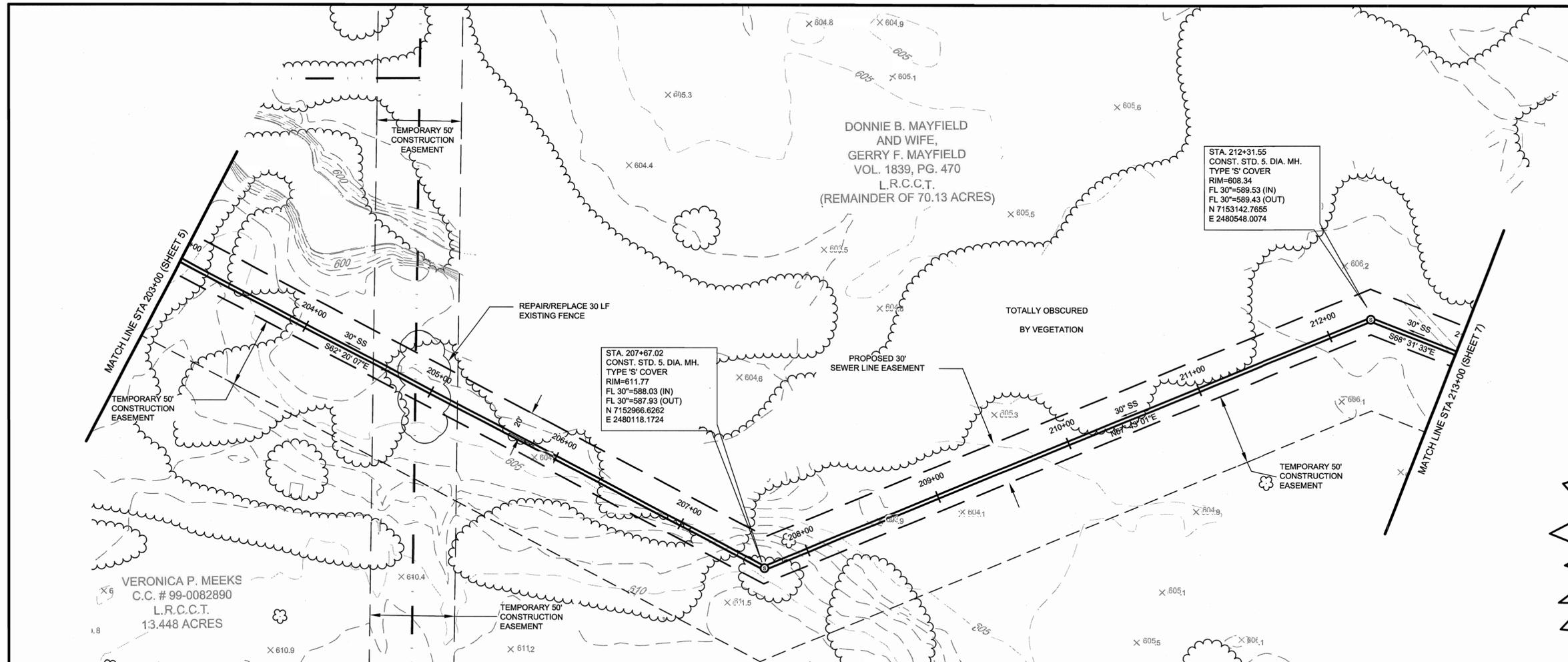
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REPUBLIC PROPERTY GROUP

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CELINA, TEXAS

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SCALE (IN FEET)
0 20 40 80

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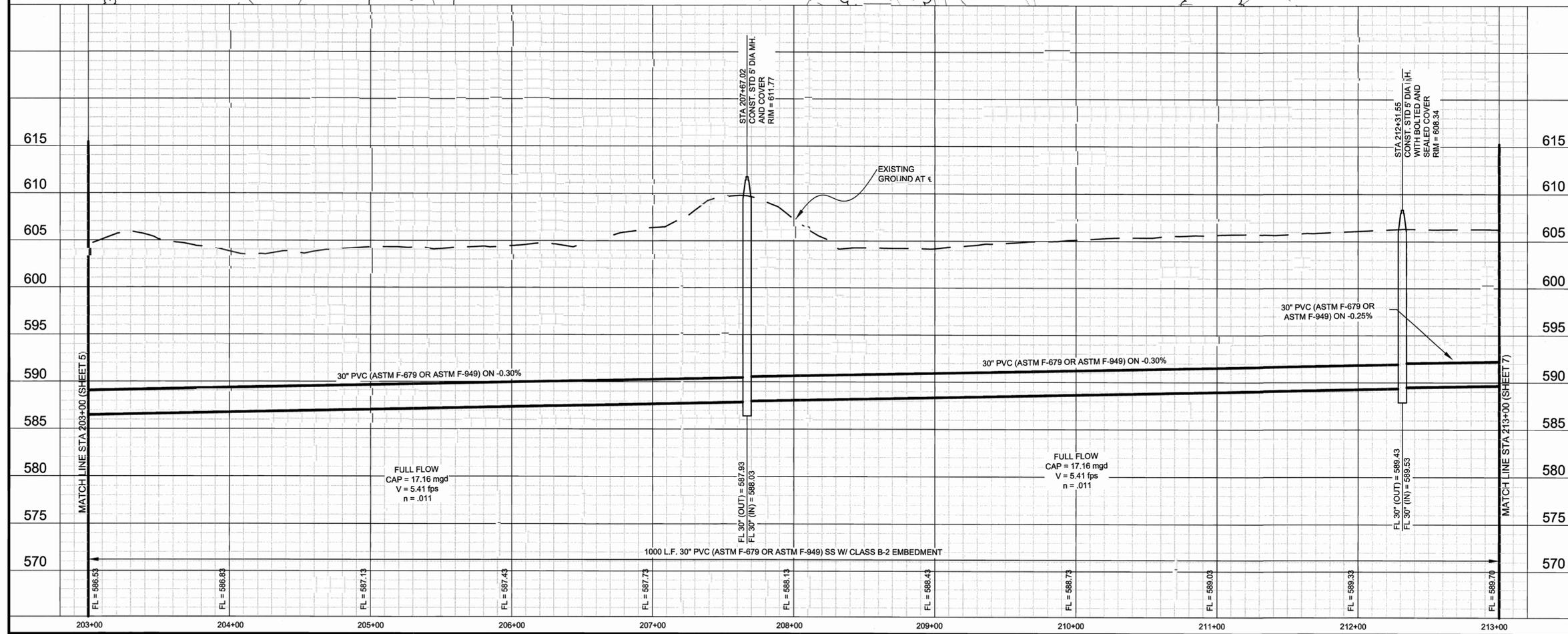
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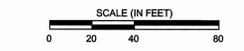
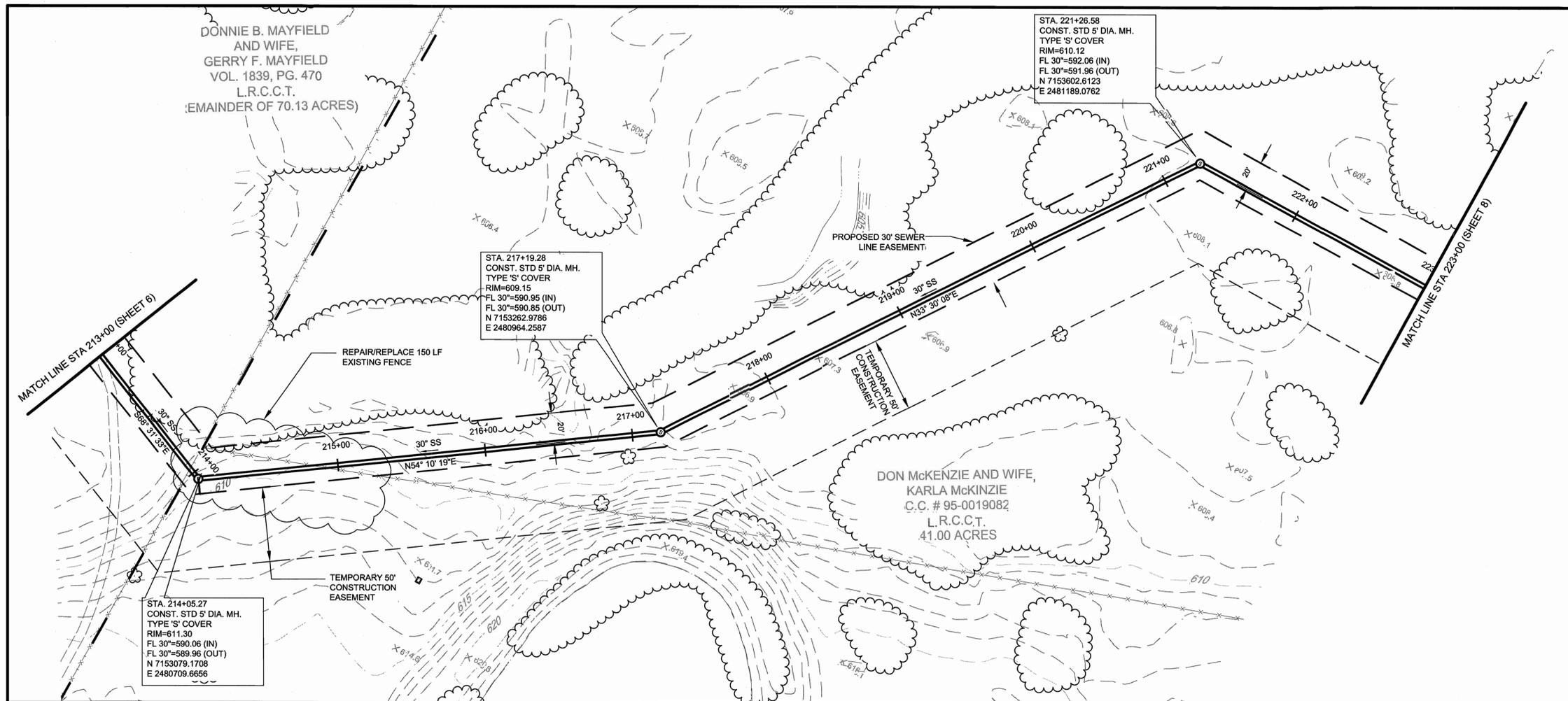
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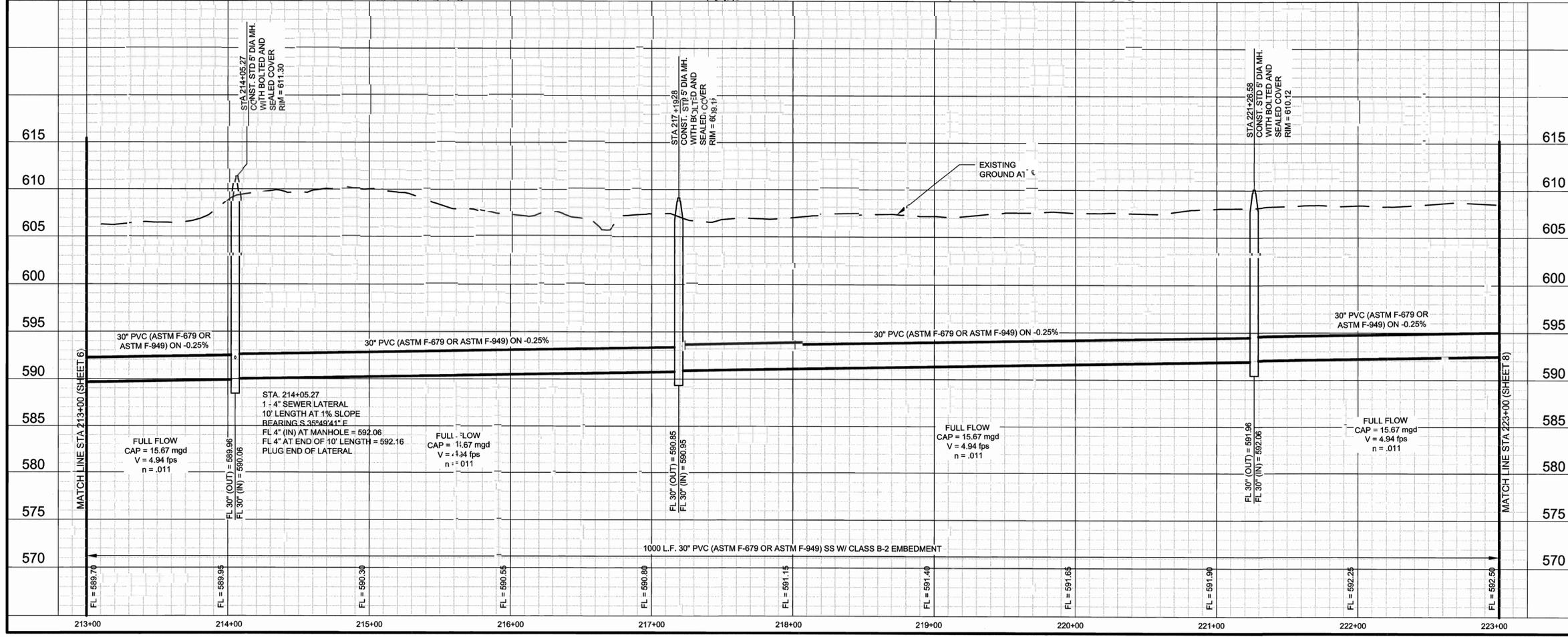
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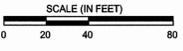
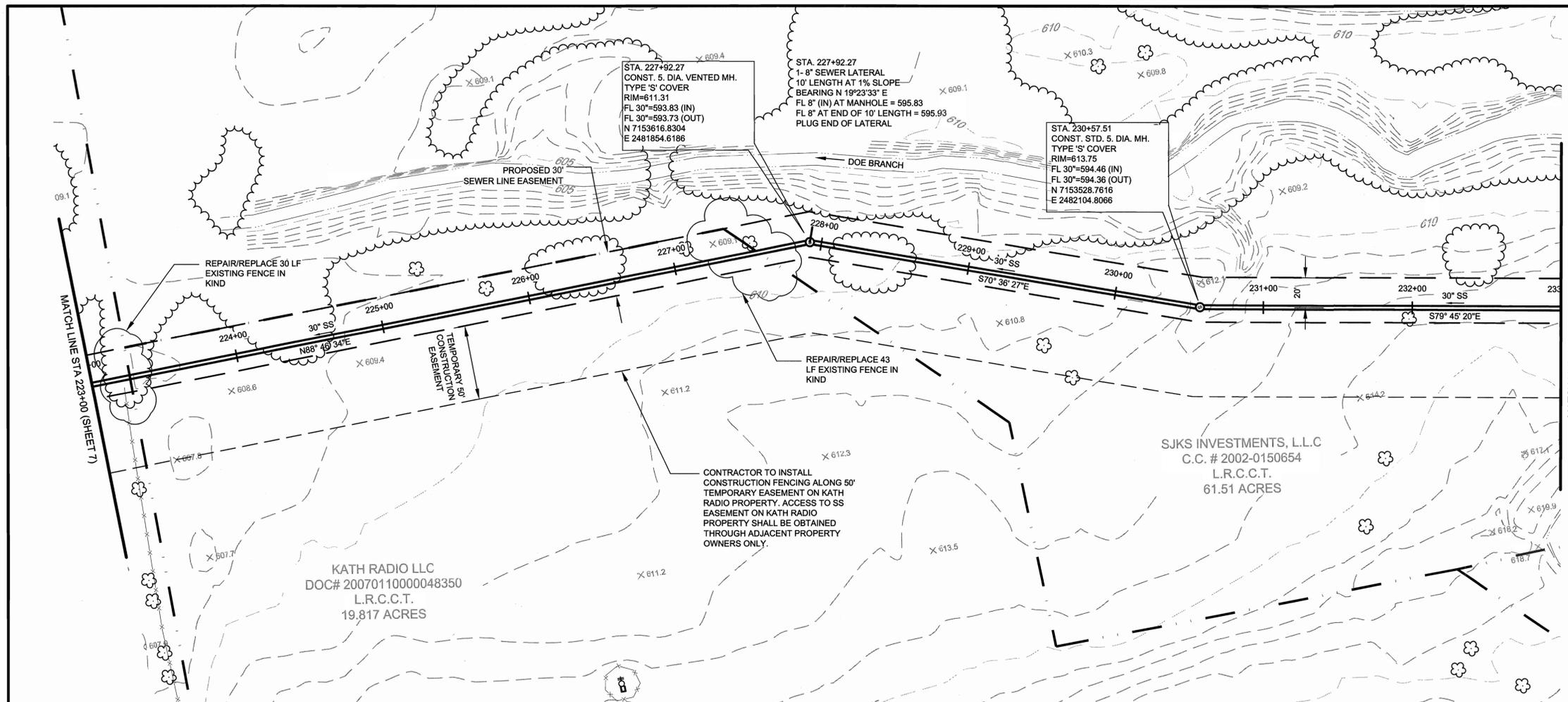
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STATE OF TEXAS
 KEVIN N. CARLSON
 89232
 REGISTERED PROFESSIONAL ENGINEER
 5-19-09

LIGHT FARMS OSS - COLLIN COUNTY	
STA. 213+00 TO STA. 223+00	
REPUBLIC PROPERTY GROUP	
HUITT-ZOLIARS Huitt-Zollars, Inc. 3131 McKinney Avenue, Suite 600 Dallas, Texas 75204-2489 Phone (214) 871-3311 Fax (214) 871-0757	
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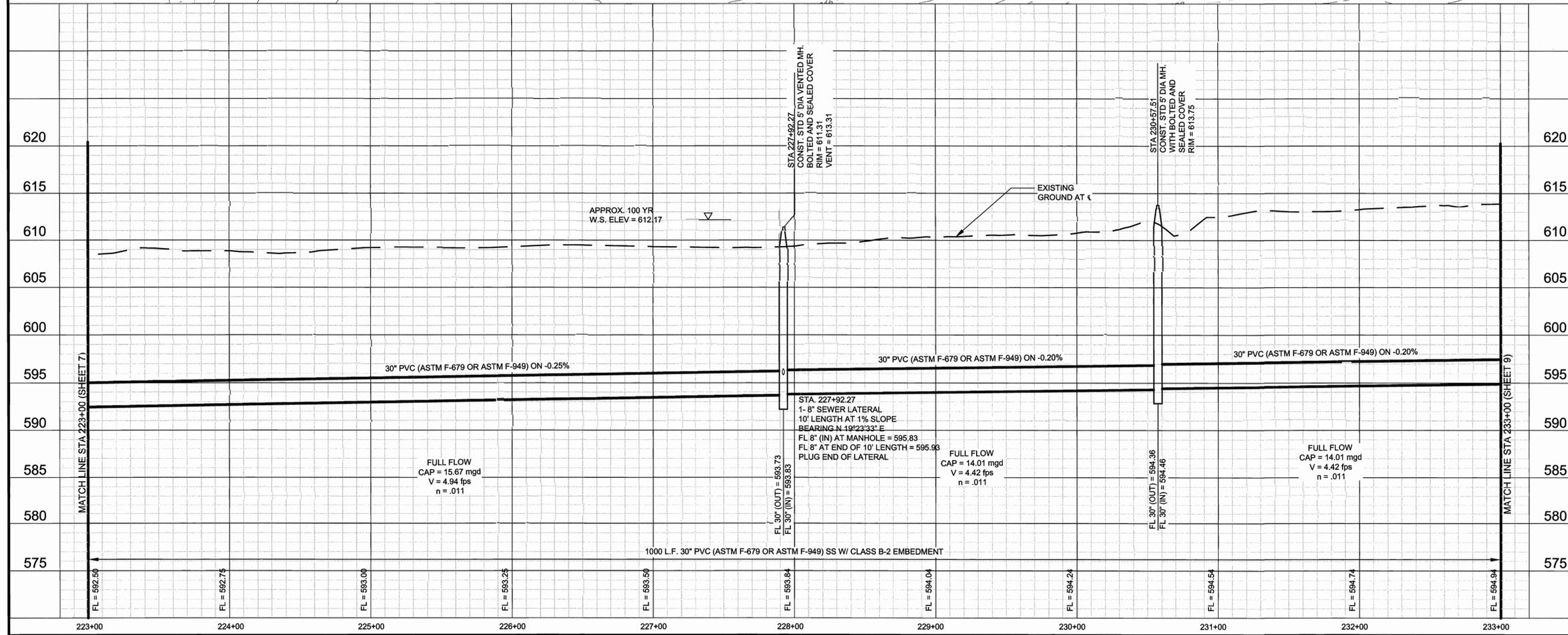
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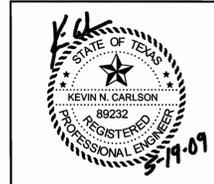
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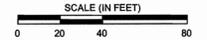
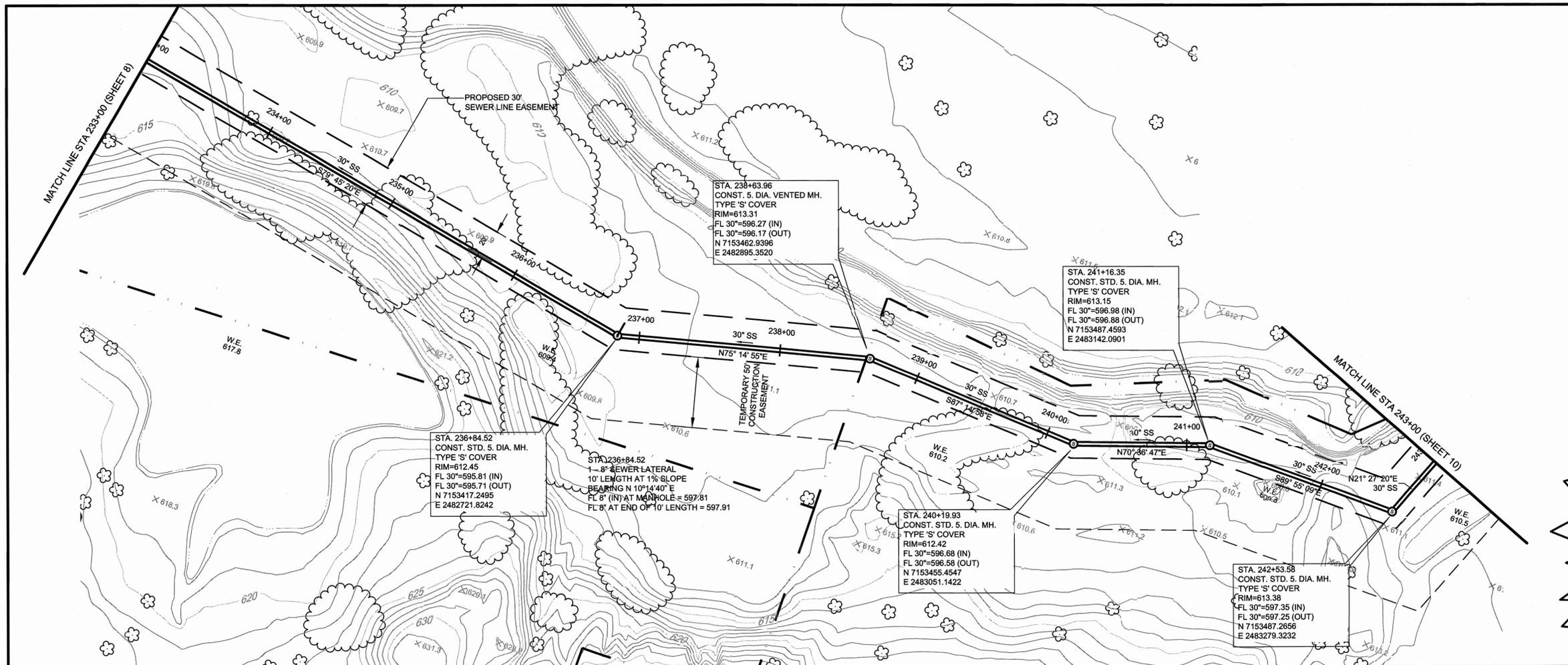
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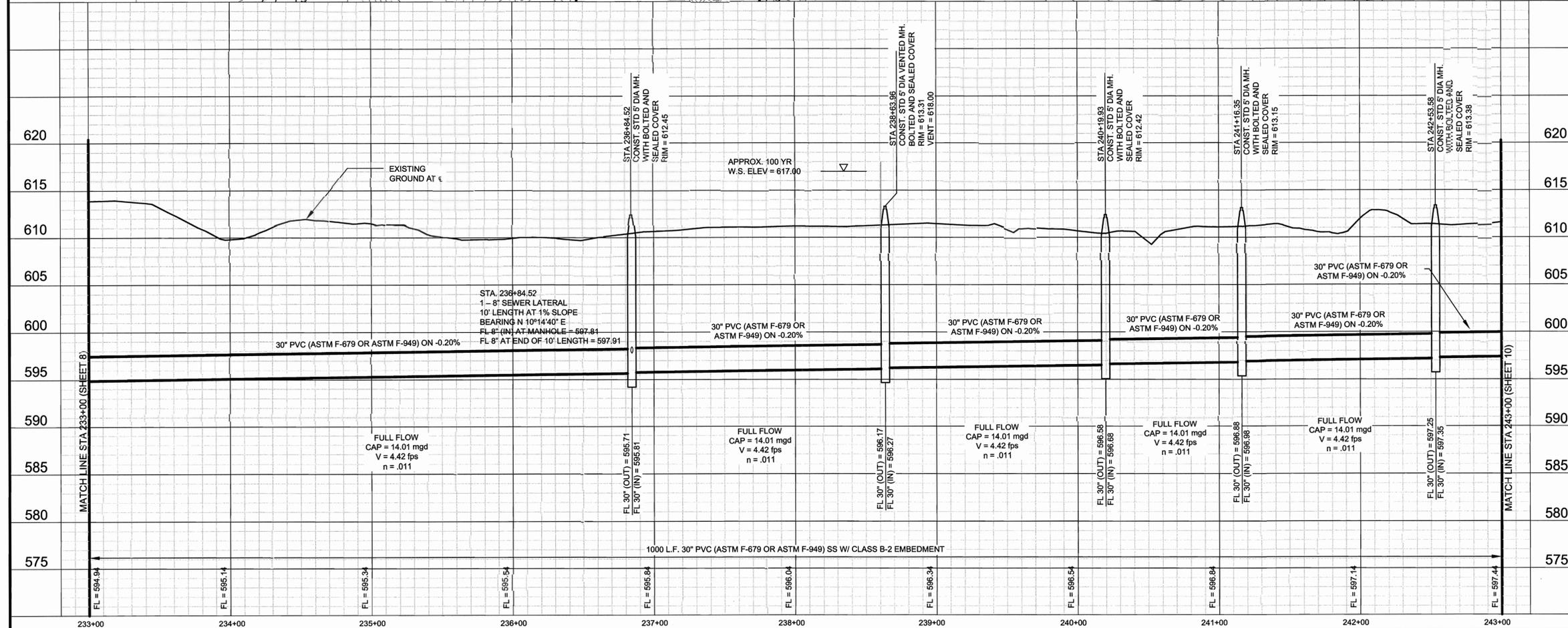
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BENCH MARKS:

TBM #28-RR SPIKE IN POWER POLE, WEST SIDE OF INTERSECTION OF LEGACY ROAD WITH COUNTY ROAD NO. 5. ELEV. = 603.44'

TBM #29-60D NAIL IN POWER POLE, SOUTH SIDE OF CAREY ROAD, 0.3 MILES WEST OF LEGACY ROAD. ELEV. = 598.06'

TBM #34-60D NAIL IN POWER POLE, NORTH SIDE OF PARVIN ROAD, 95 FEET± EAST OF SMILEY ROAD. ELEV. = 581.74'



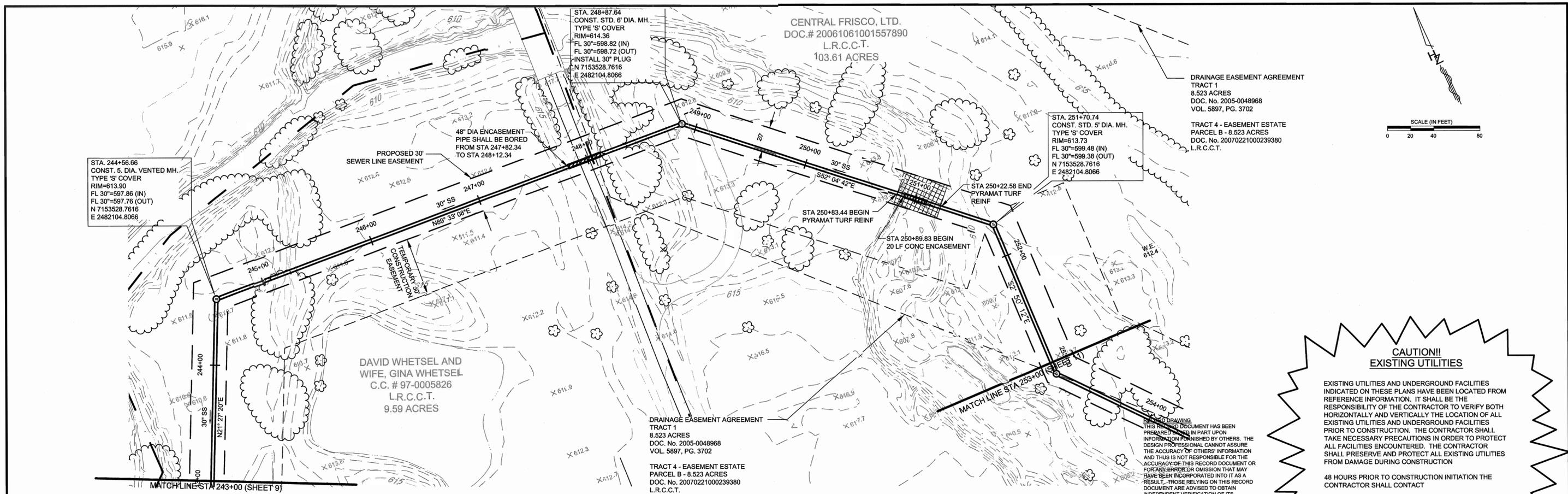
NO.	DATE	REVISIONS	APPROVED
1	04/18/2008	ISSUED FOR CONSTRUCTION	KNC

LIGHT FARMS OSS - COLLIN COUNTY
STA. 233+00 TO STA. 243+00
REPUBLIC PROPERTY GROUP

HUIT-ZOLLARS
 Huit-Zollars, Inc.
 3131 McKinney Avenue, Suite 600 Dallas, Texas 75204-2489
 Phone (214) 871-3311 Fax (214) 871-0757

CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	PROJECT ID	NO.
H.Z.I.	H.Z.I.	4/08	H 1"=40' V 1"=6'		01390501	9



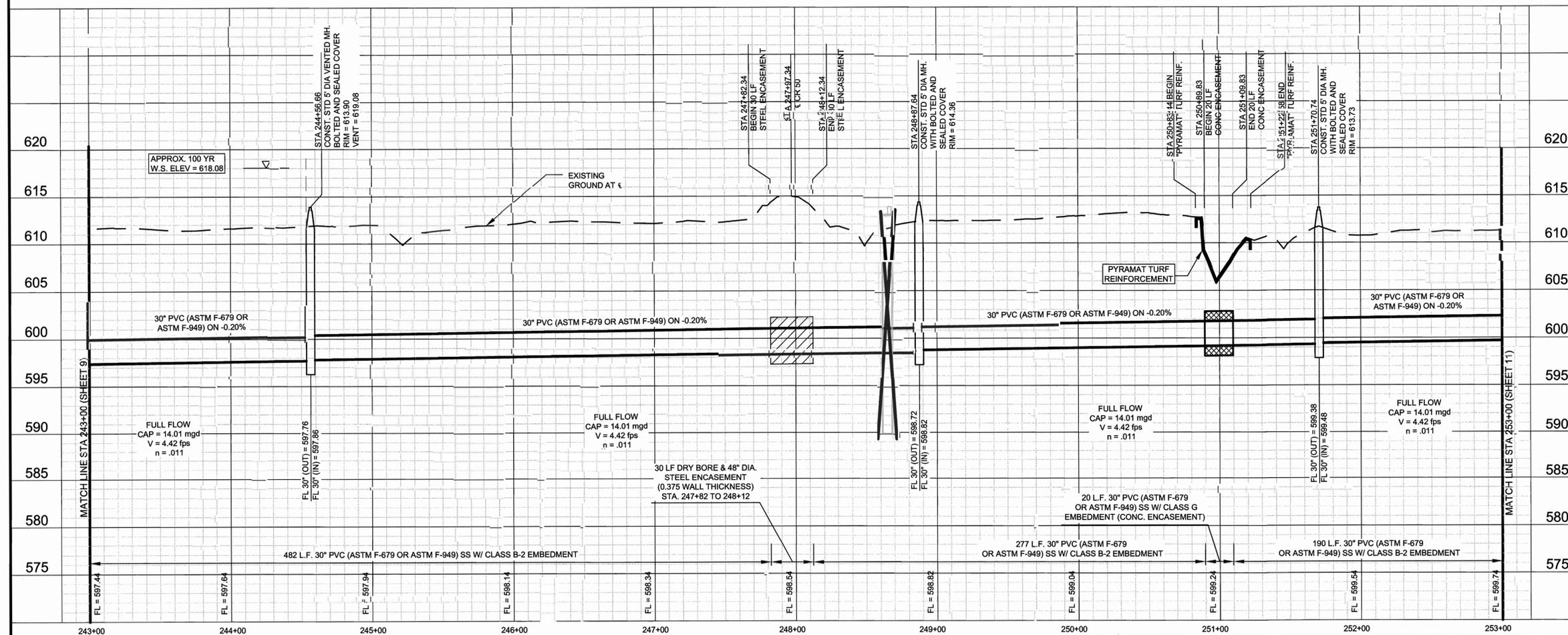
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48 HOURS PRIOR TO CONSTRUCTION INITIATION THE CONTRACTOR SHALL CONTACT

GTE 800/344-8377
ATMOS 972/485-6204 (ROBIN RICHARDSON, FIELD ENGINEER)

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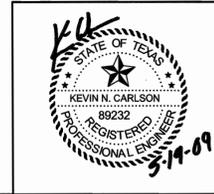
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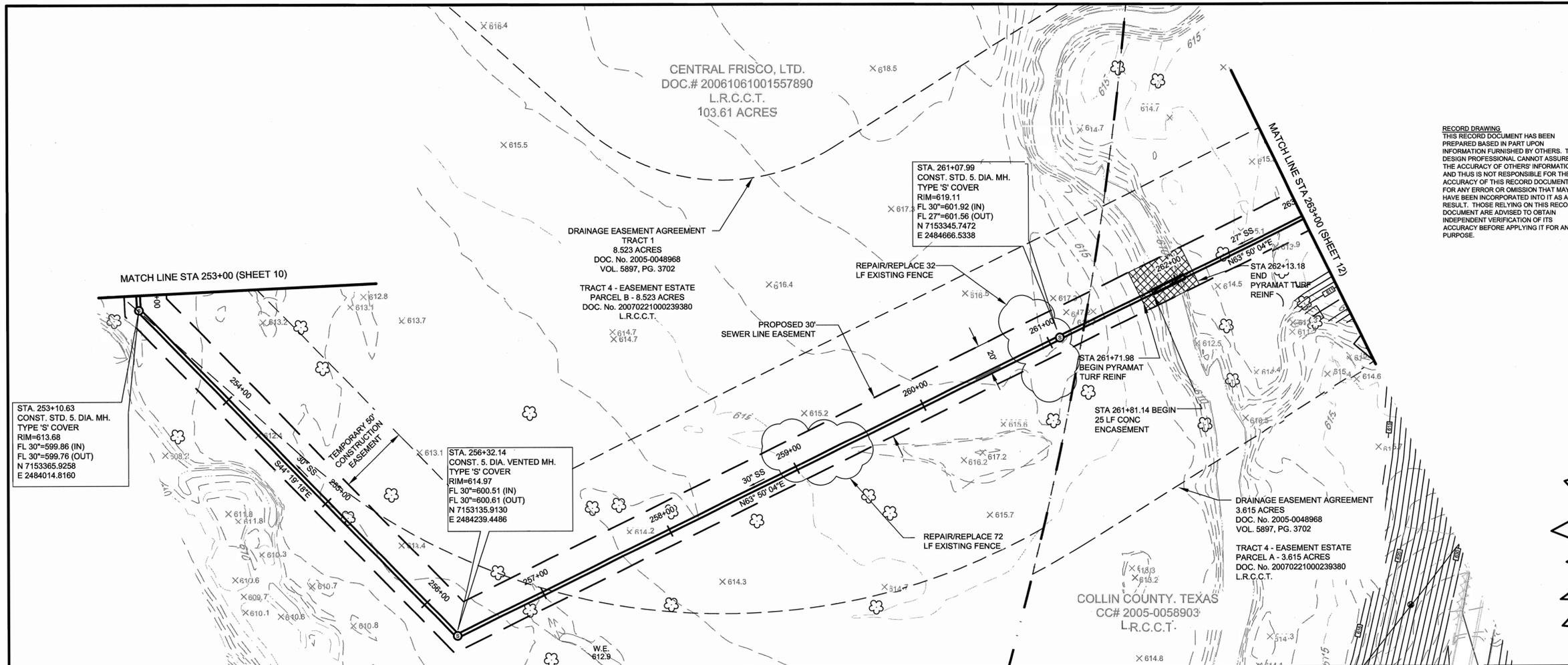
LIGHT FARMS OSS - COLLIN COUNTY
STA. 243+00 TO STA. 253+00
REPUBLIC PROPERTY GROUP

HUIT-ZOLLARS
Celina, Texas

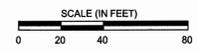
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I:\proj\01390501\ACTIVE\CD-LF-OSS COLLIN - AS BUILT\10_Sanitary Sewer.dwg



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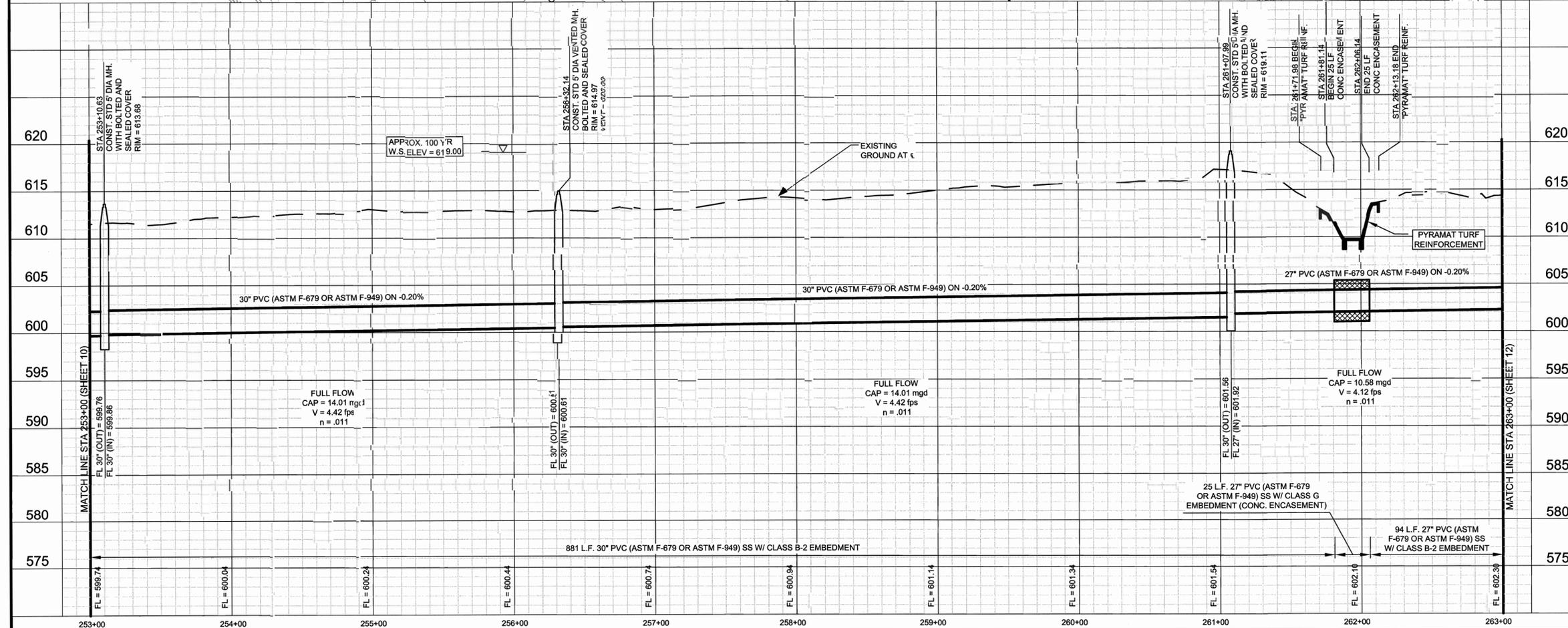


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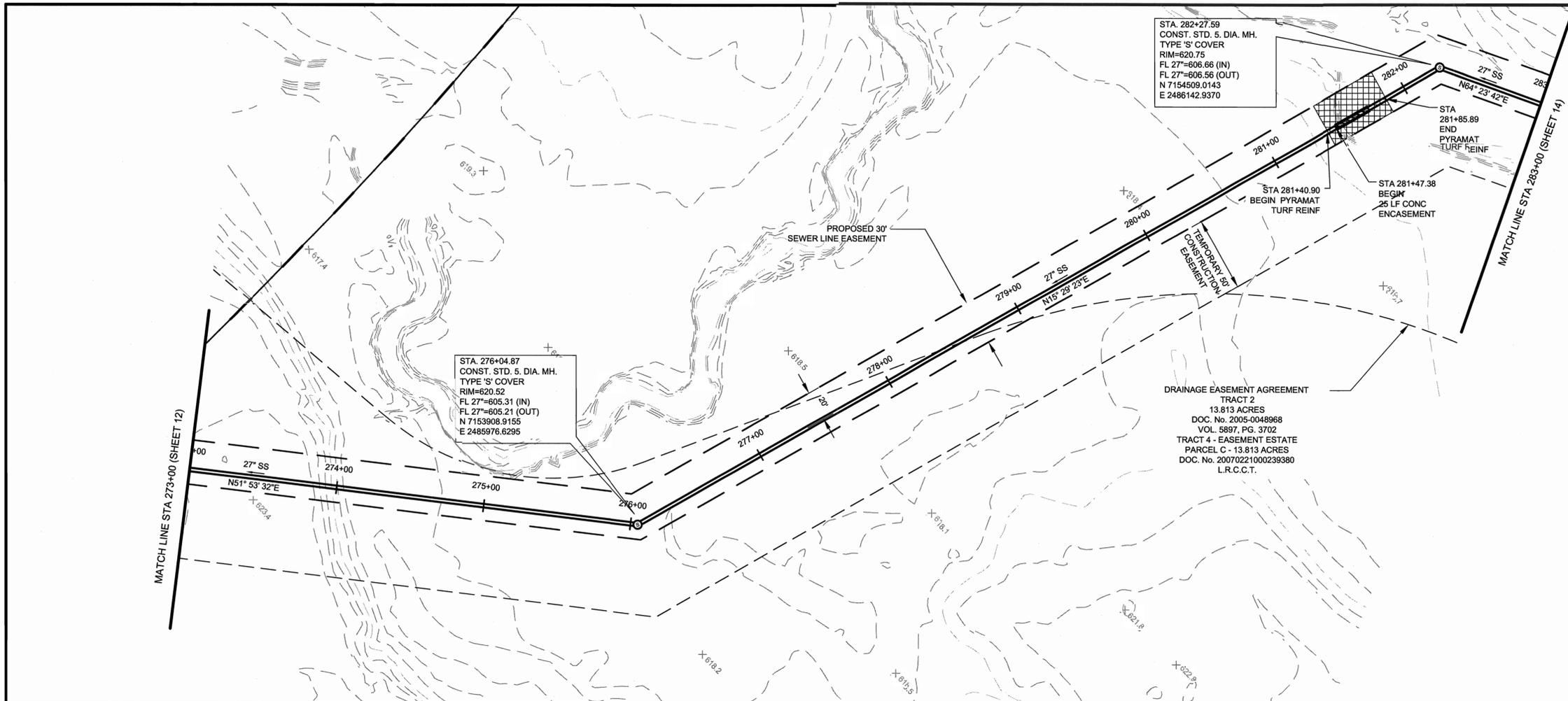
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LIGHT FARMS OSS - COLLIN COUNTY
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CELINA, TEXAS

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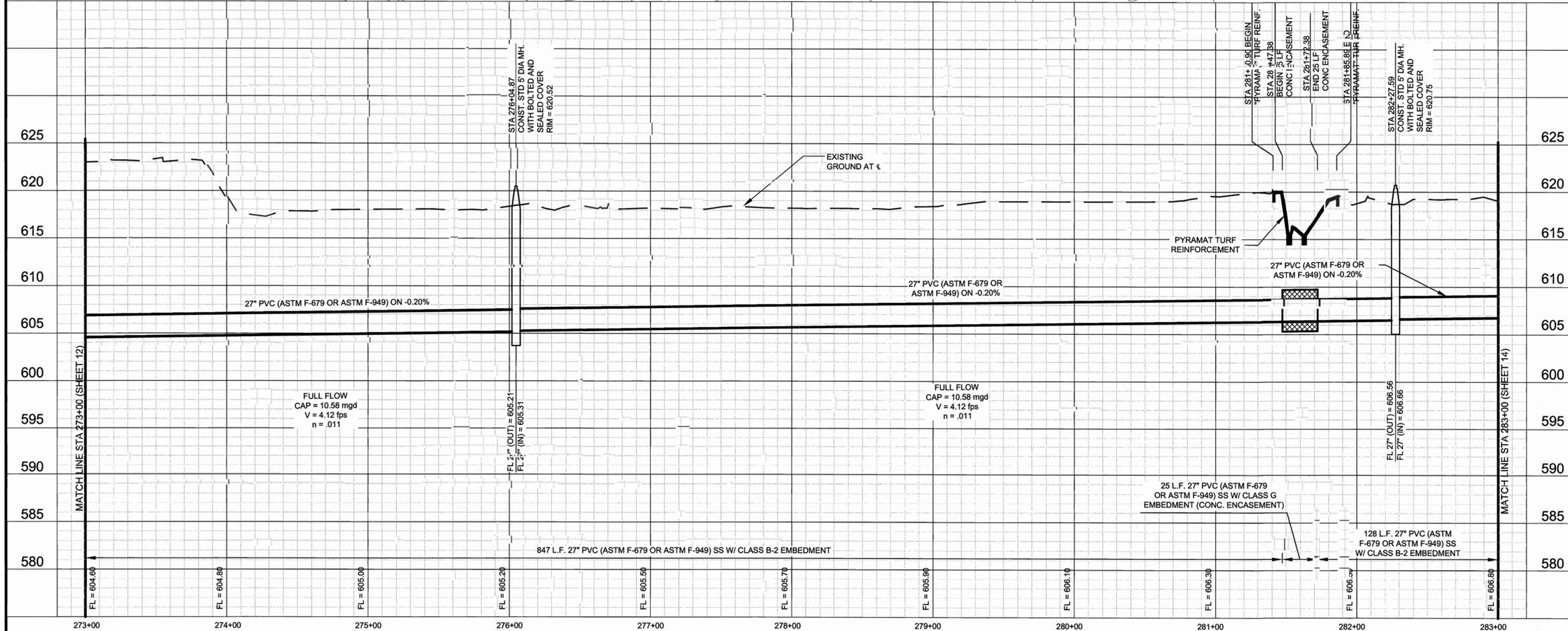


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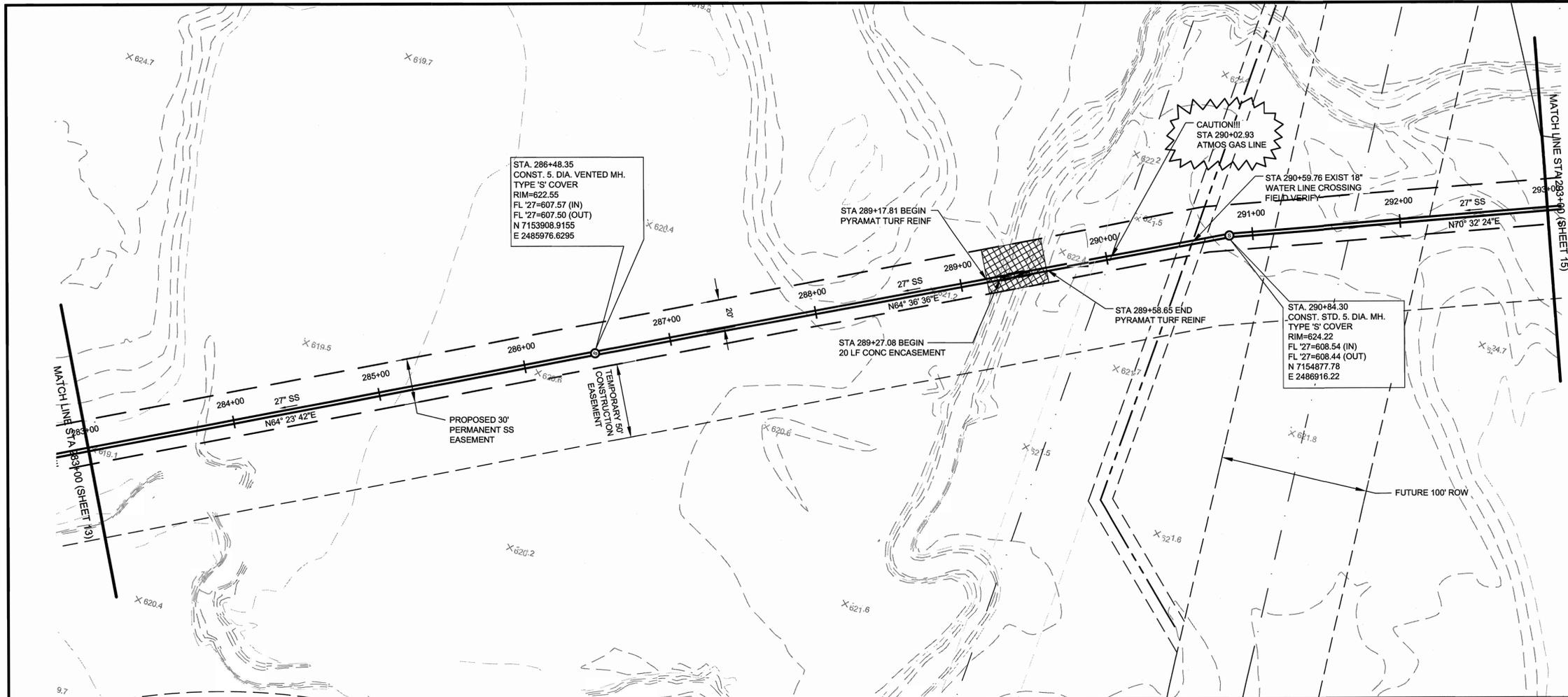
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LIGHT FARMS OSS - COLLIN COUNTY
STA. 273+00 TO STA. 283+00
REPUBLIC PROPERTY GROUP

HUITT-ZOLLARS
CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	PROJECT ID	NO.
H.Z.I.	H.Z.I.	4/08	H 1"=40' V 1"=6'		01390501	13 19





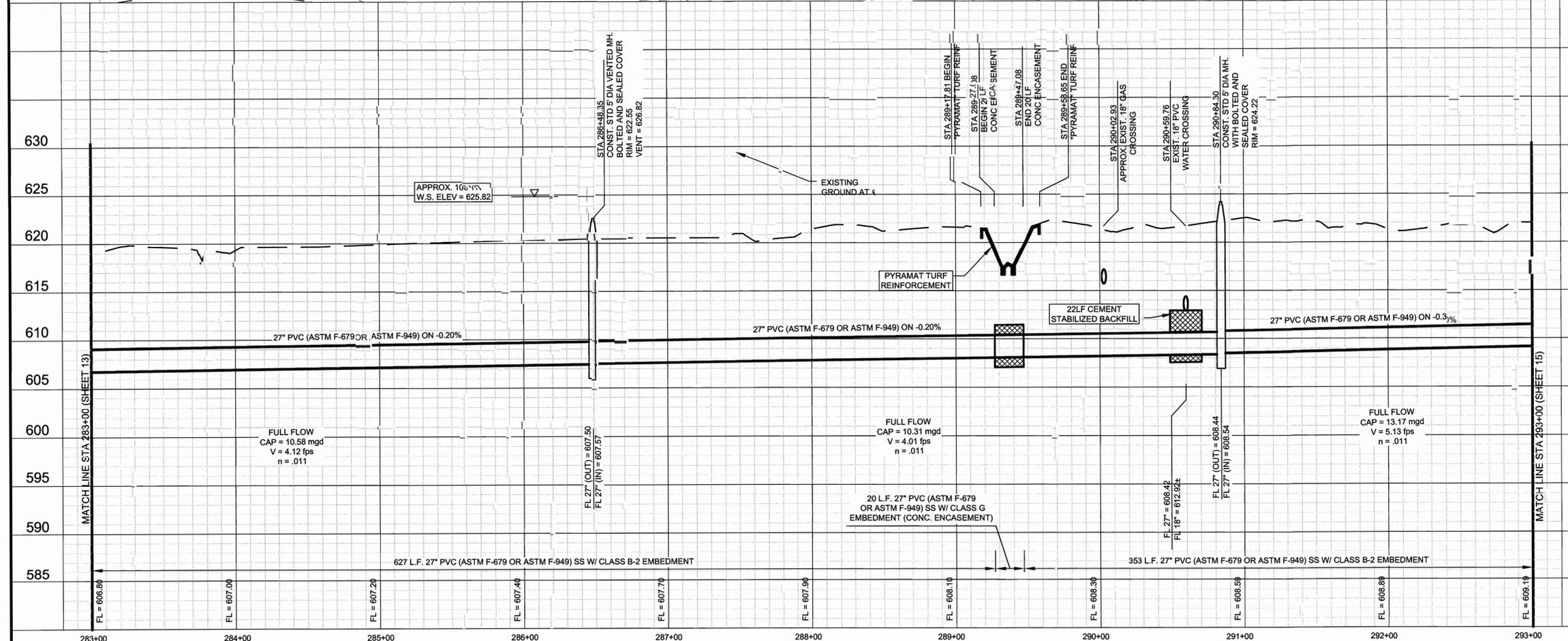
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LIGHT FARMS OSS - COLLIN COUNTY

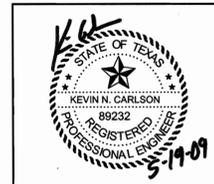
STA. 283+00 TO STA. 293+00

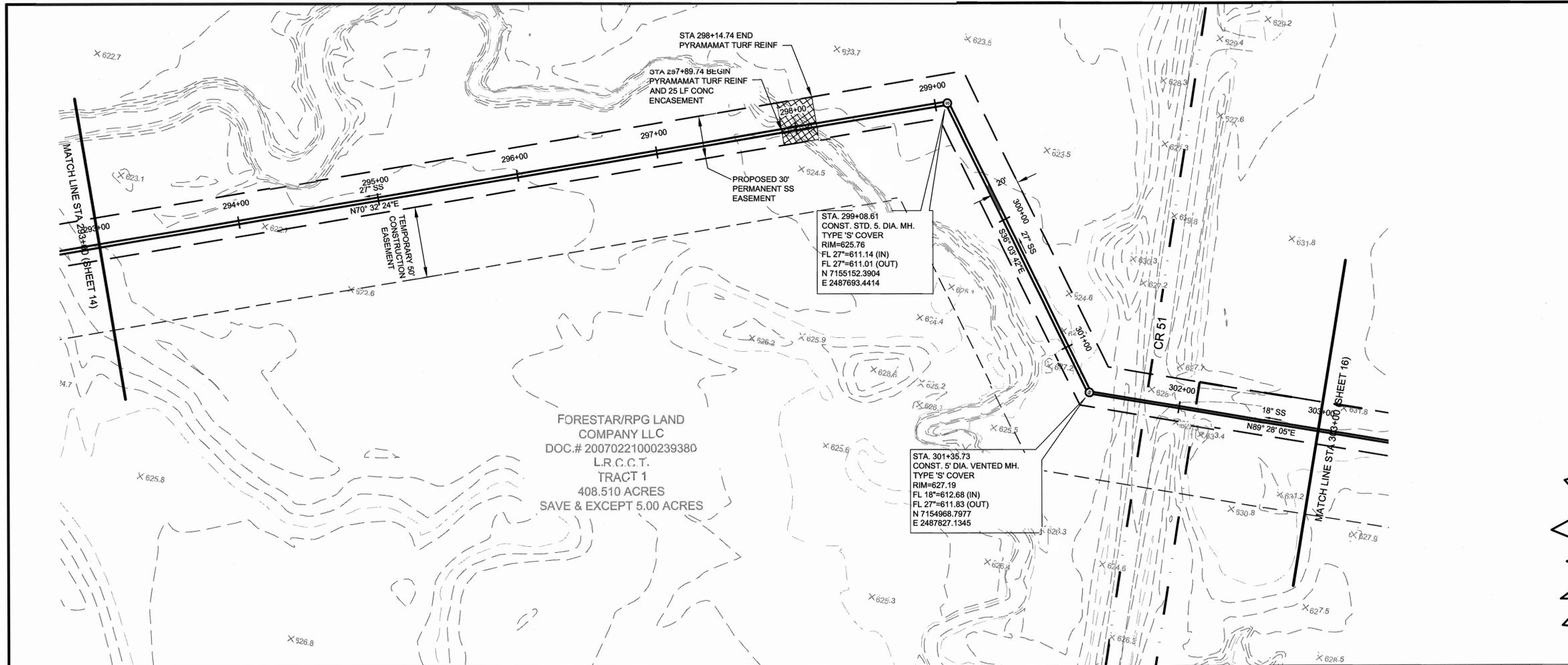
REPUBLIC PROPERTY GROUP

HUITT-ZOLLARS Huitt-Zollars, Inc. 3131 McKinney Avenue, Suite 600 Dallas, Texas 75204-2489 Phone (214) 871-3311 Fax (214) 871-0757

CELINA, TEXAS

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SCALE (IN FEET)
0 20 40 80

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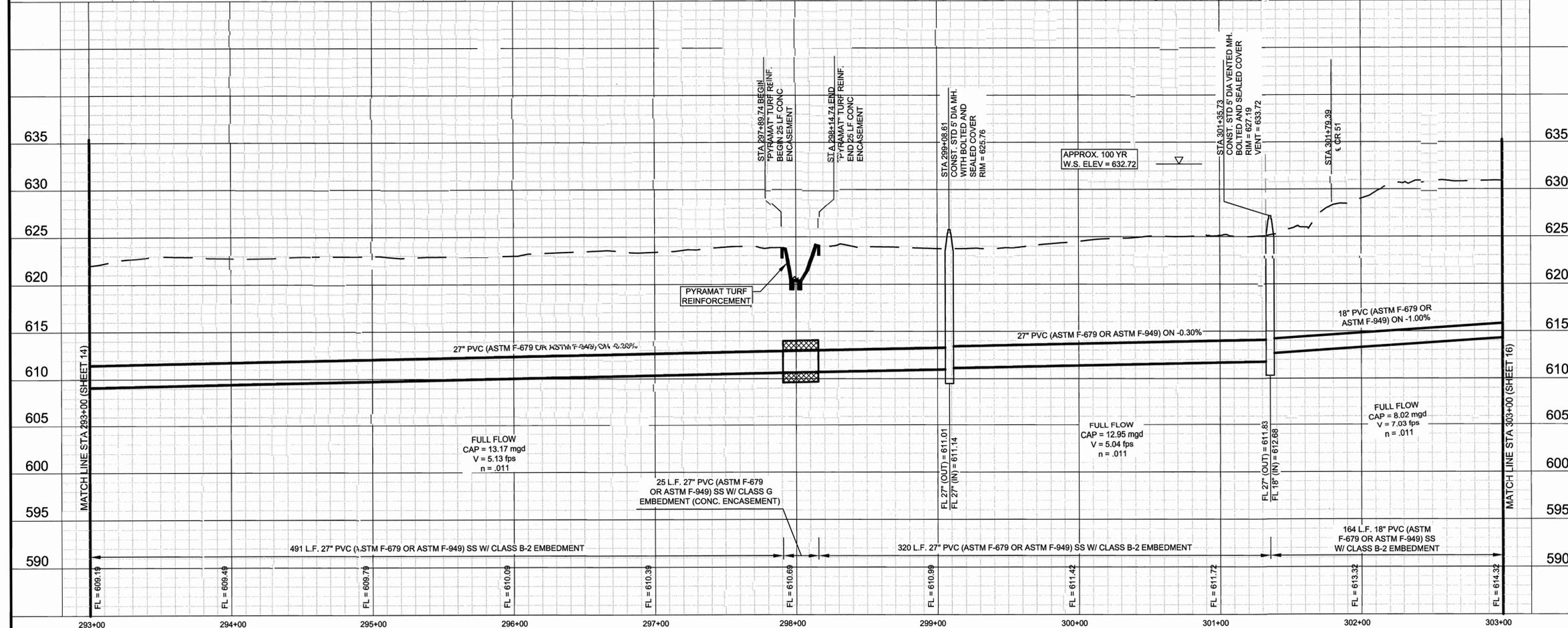
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FORESTAR/RPG LAND COMPANY LLC
DOC.# 20070221000239380
L.R.C.C.T.
TRACT 1
408.510 ACRES
SAVE & EXCEPT 5.00 ACRES



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LIGHT FARMS OSS - COLLIN COUNTY
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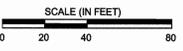
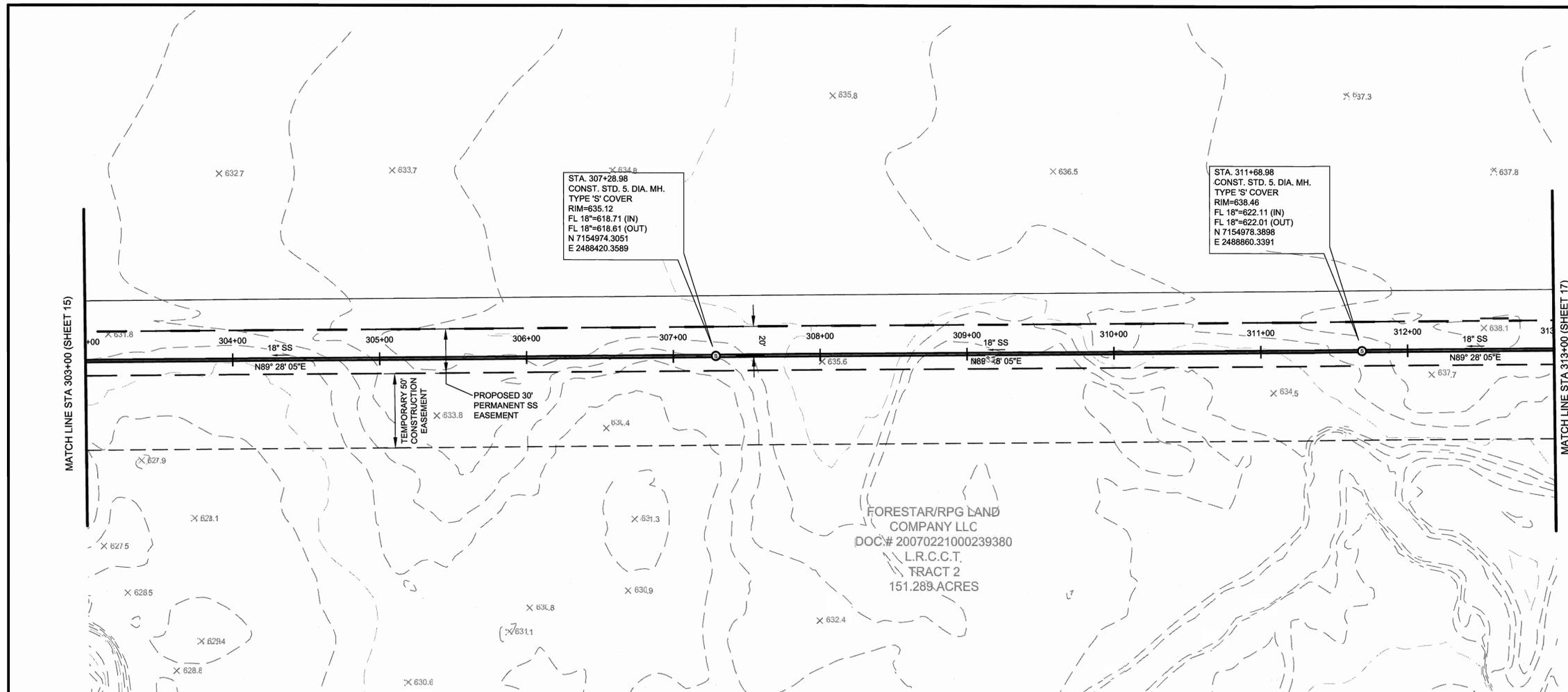
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I:\proj\01390501_ACTIVE\CD-LF-OSS COLLIN - AS BUILT\15_Sanitary Sewer.dwg



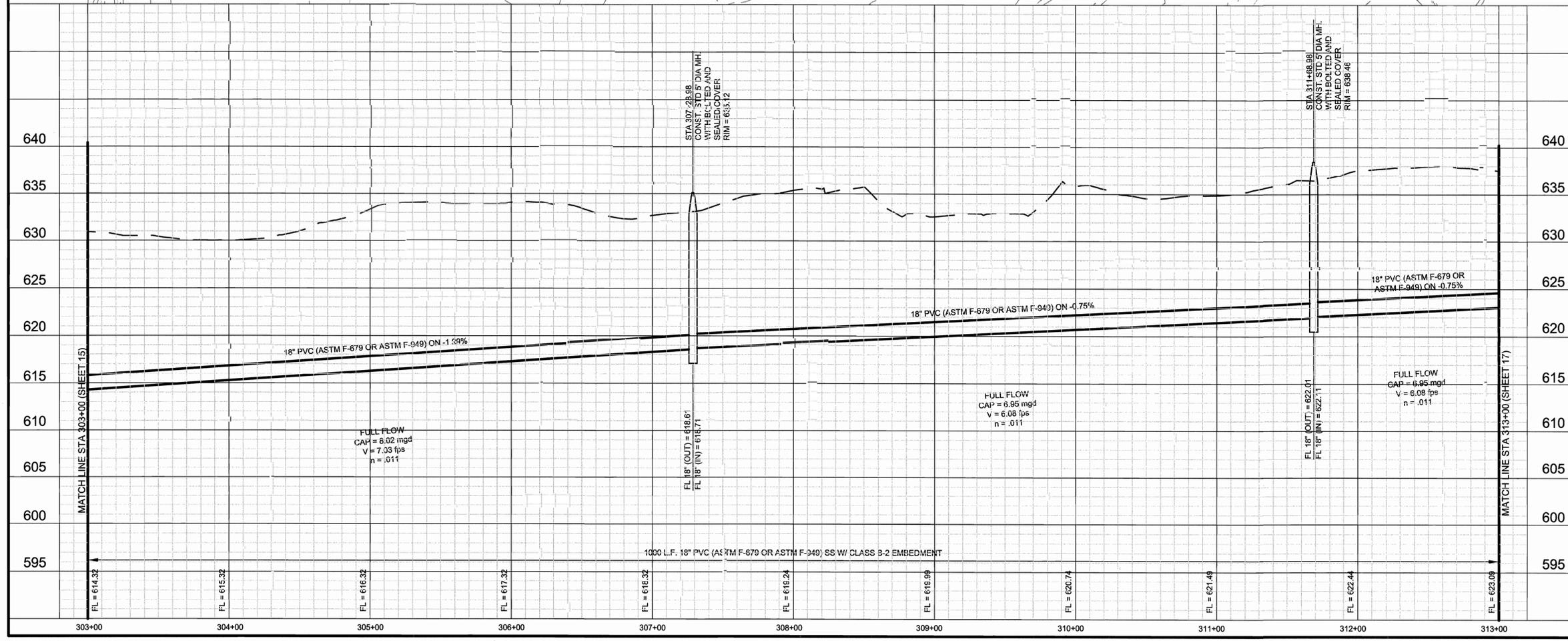
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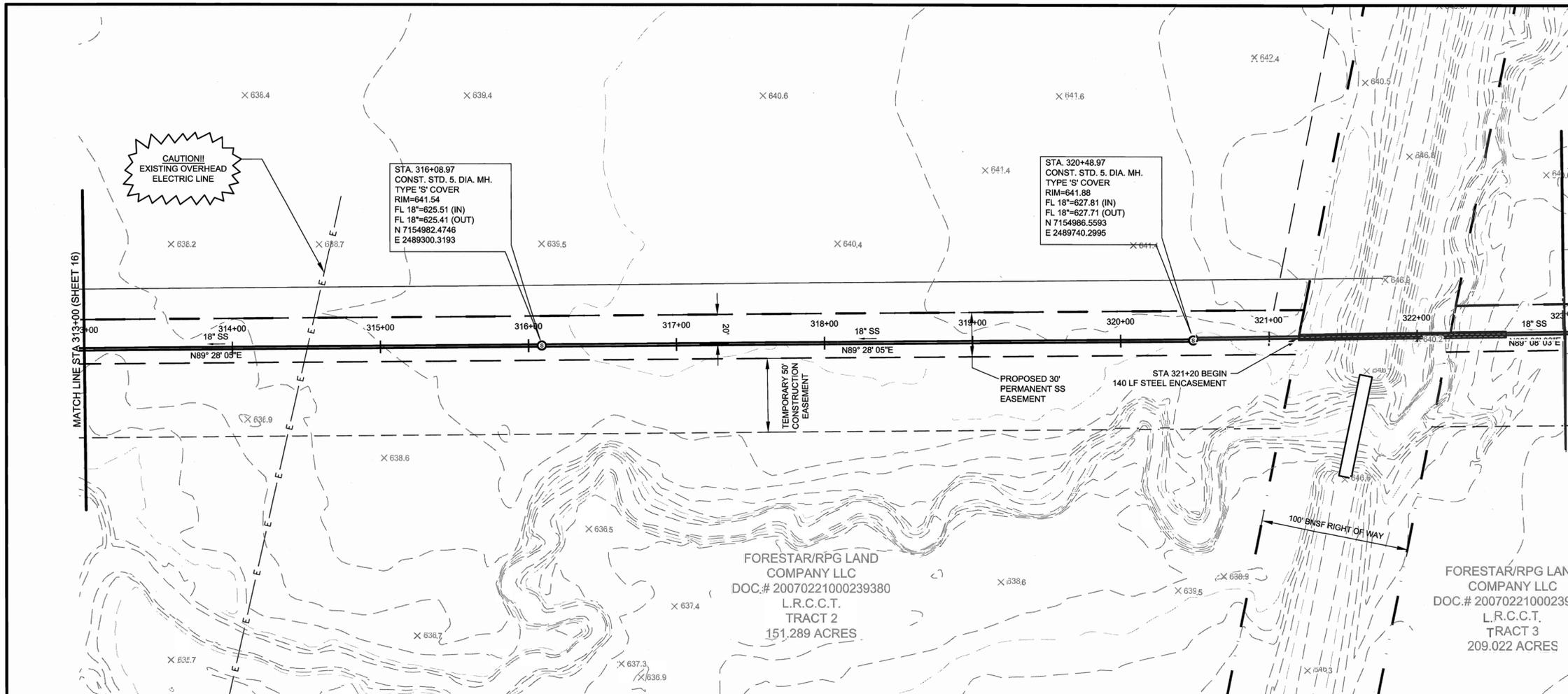
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CELINA, TEXAS

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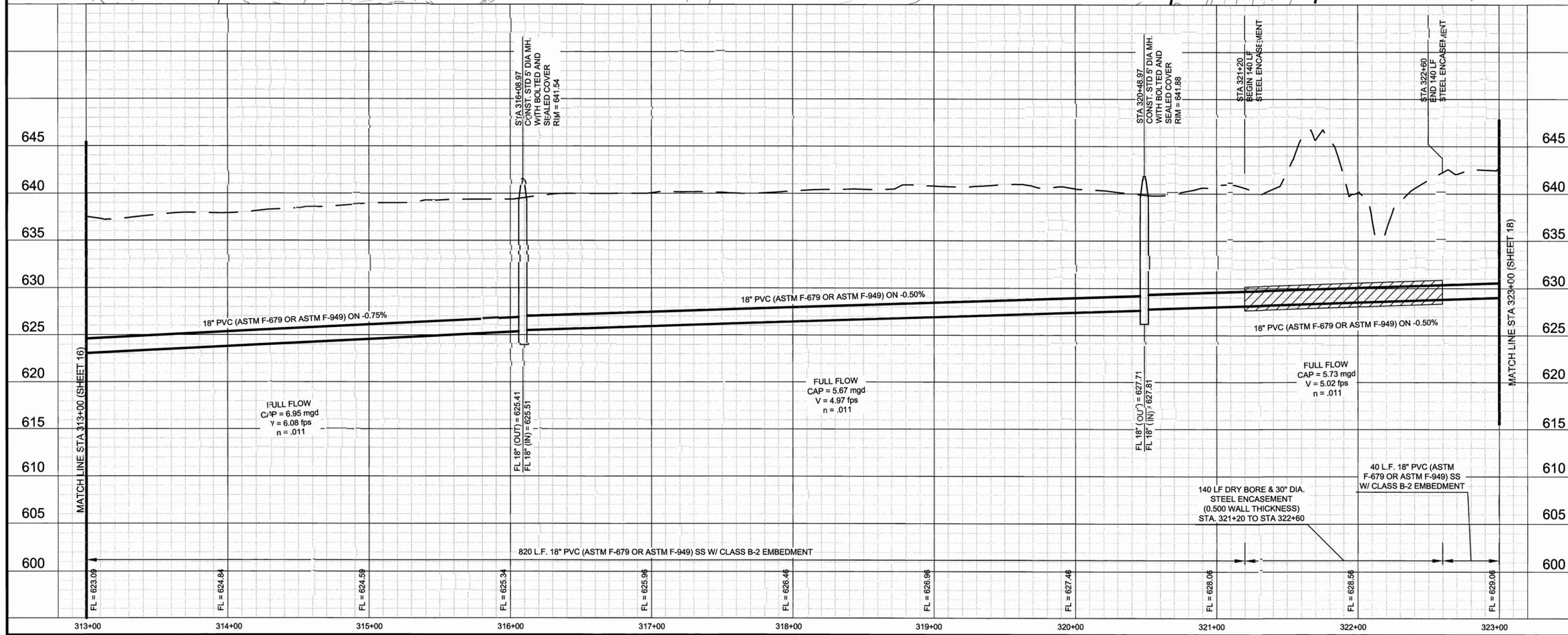
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TBM #34-60D NAIL IN POWER POLE, NORTH SIDE OF PARVIN ROAD, 95 FEET± EAST OF SMILEY ROAD. ELEV. = 581.74'

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LIGHT FARMS OSS - COLLIN COUNTY

STA. 313+00 TO STA. 323+00

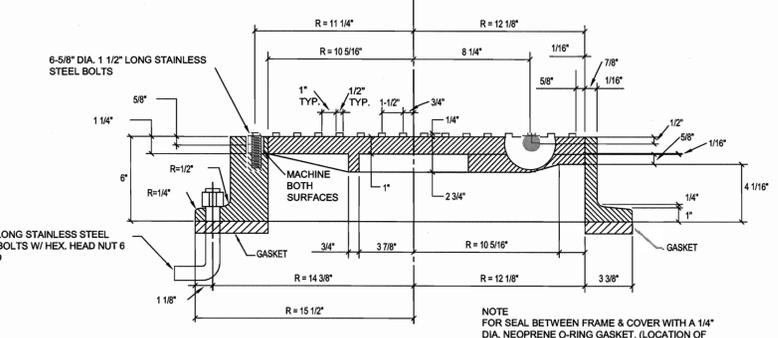
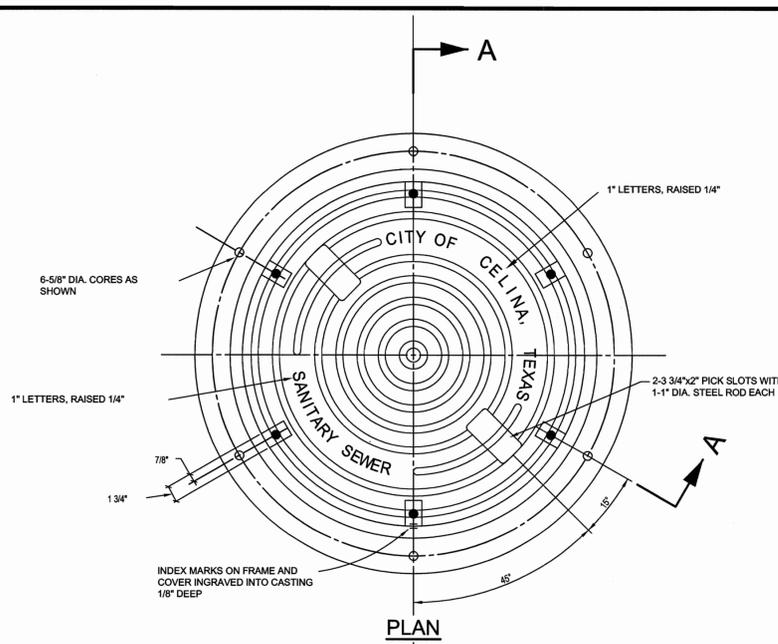
REPUBLIC PROPERTY GROUP

HUITT-ZOLLARS Huitt-Zollars, Inc. 3131 McKinney Avenue, Suite 600 Dallas, Texas 75204-2489
Phone (214) 871-3311 Fax (214) 871-0757

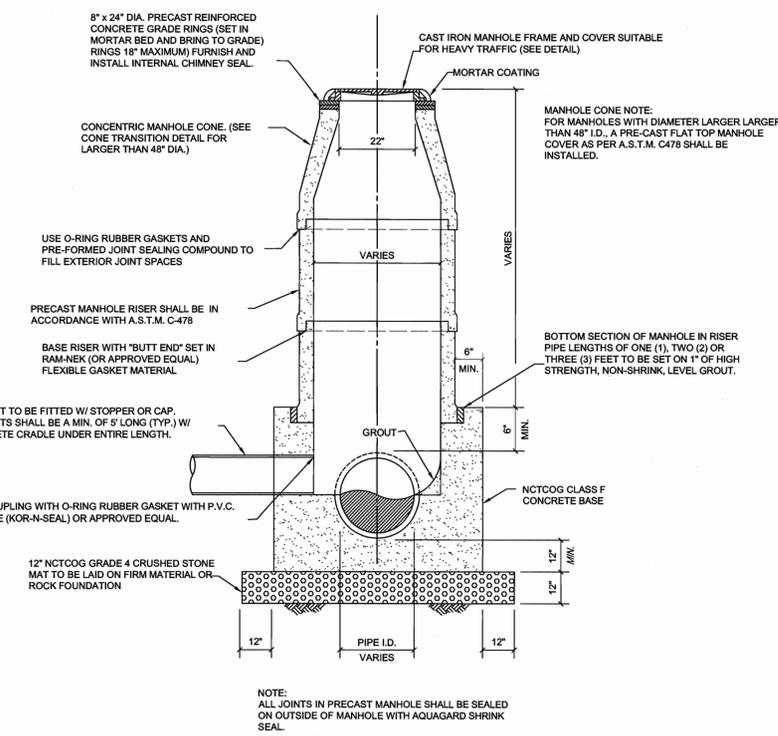
CELINA, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	PROJECT ID	NO.
H.Z.I.	H.Z.I.	4/08	H 1"=40' V 1"=6'		01390501	17

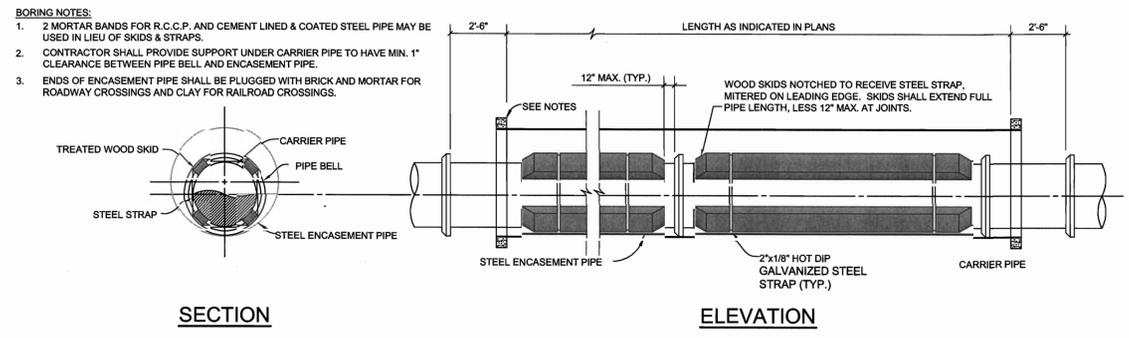




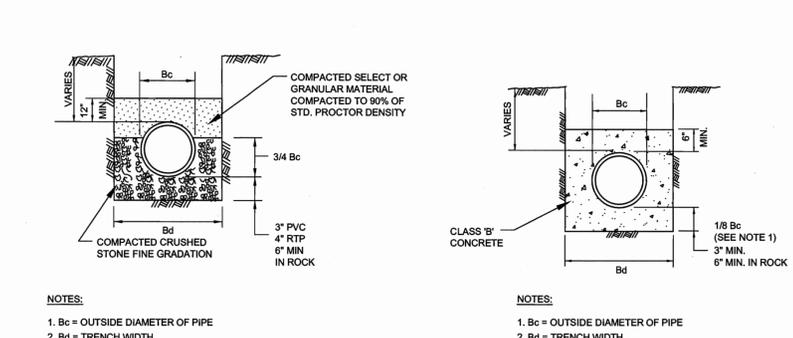
PRESSURE TYPE MANHOLE FRAME AND COVER



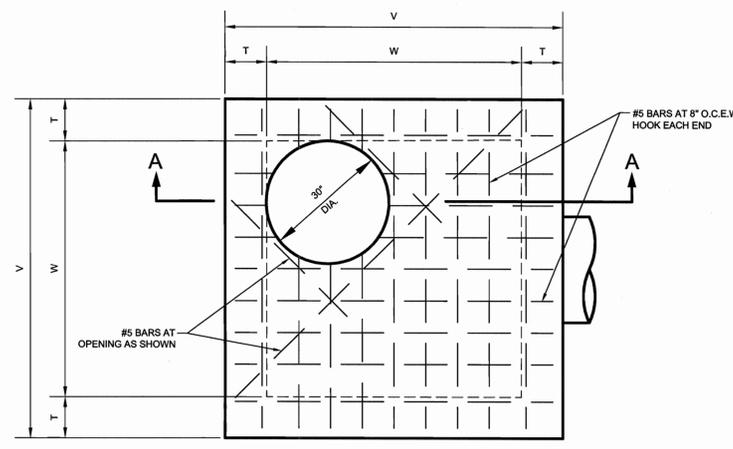
PRECAST CONCRETE MANHOLE



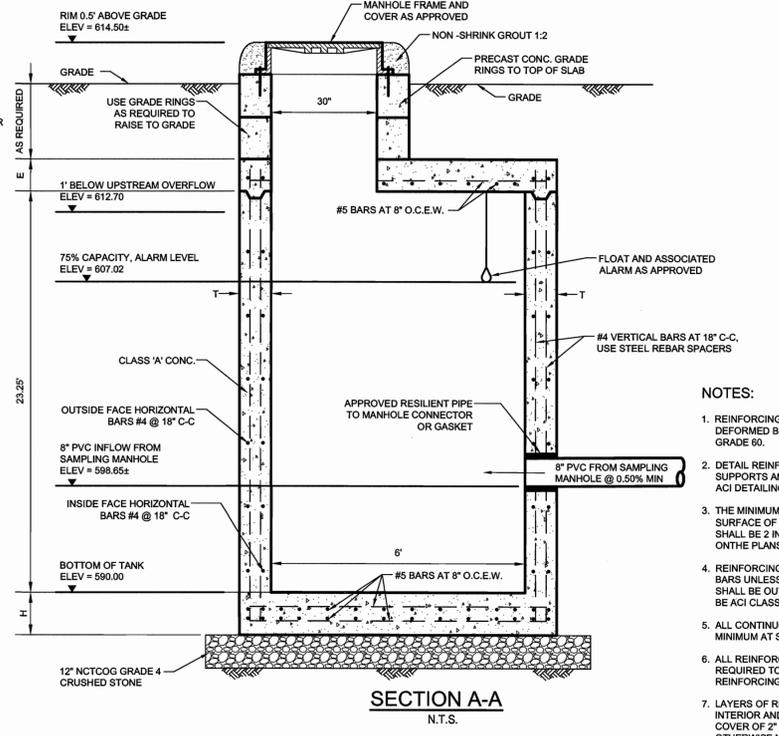
ENCASED ROAD OR RAILROAD BORE



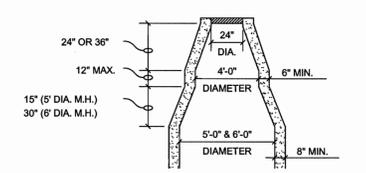
CLASS "B-2" EMBEDMENT and **CLASS "G" EMBEDMENT**



TEMPORARY CONCRETE PUMP TANK

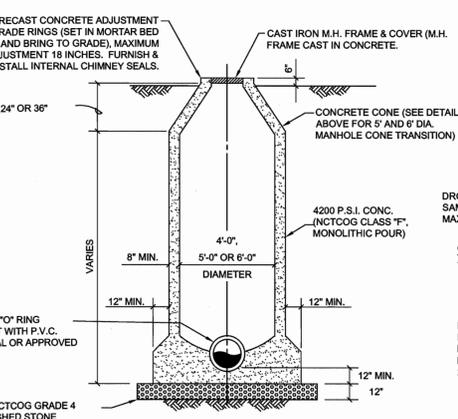


TEMPORARY CONCRETE PUMP TANK

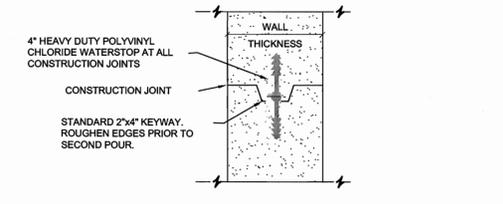


CONE TRANSITION

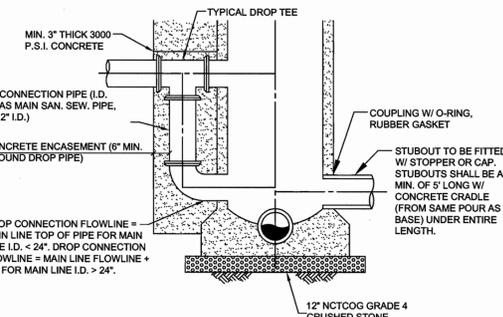
MANHOLE CONE NOTE: FOR MANHOLES WITH DIAMETER LARGER THAN 48\"/>



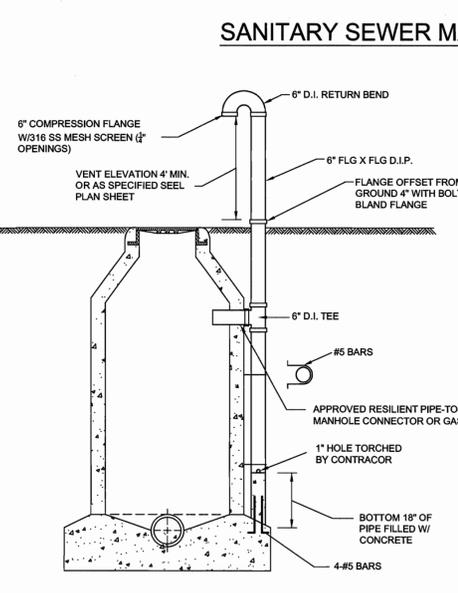
STANDARD MANHOLE ELEVATION



MANHOLE CONSTRUCTION JOINT



MANHOLE WITH DROP CONNECTION



VENTED MANHOLE DETAIL

- NOTES:**
1. REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A 615, GRADE 60.
 2. DETAIL REINFORCING BARS AND PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
 3. THE MINIMUM CLEAR COVER MEASURED FROM THE SURFACE OF CONCRETE TO ANY REINFORCING BAR SHALL BE 2 INCHES, EXCEPT AS NOTED OTHERWISE ON THE PLANS.
 4. REINFORCING BAR SPACING SHALL BE TO CENTER OF BARS UNLESS NOTED OTHERWISE. BEND DIMENSIONS SHALL BE OUT TO OUT OF BEND. ALL LAP SPLICES SHALL BE ACI CLASS B UNLESS NOTED OTHERWISE.
 5. ALL CONTINUOUS #5 BARS SHALL BE LAPPED 2'-6" MINIMUM AT SPLICE LOCATIONS.
 6. ALL REINFORCING STEEL SHALL BE CUT AND BENT AS REQUIRED TO CLEAR PIPE. USE ADDITIONAL REINFORCING AROUND PIPE OPENING.
 7. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACE SHALL HAVE A COVER OF 2" TO THE CENT OF BARS, UNLESS OTHERWISE NOTED.
 8. CHAMFER ALL EXPOSED CORNERS 3/4"

RECORD DRAWING THIS RECORD DOCUMENT HAS BEEN PREPARED BASED IN PART UPON INFORMATION FURNISHED BY OTHERS. THE DESIGN PROFESSIONAL CANNOT ASSURE THE ACCURACY OF OTHERS' INFORMATION AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DOCUMENT OR FOR ANY ERROR OR OMISSION THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.



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