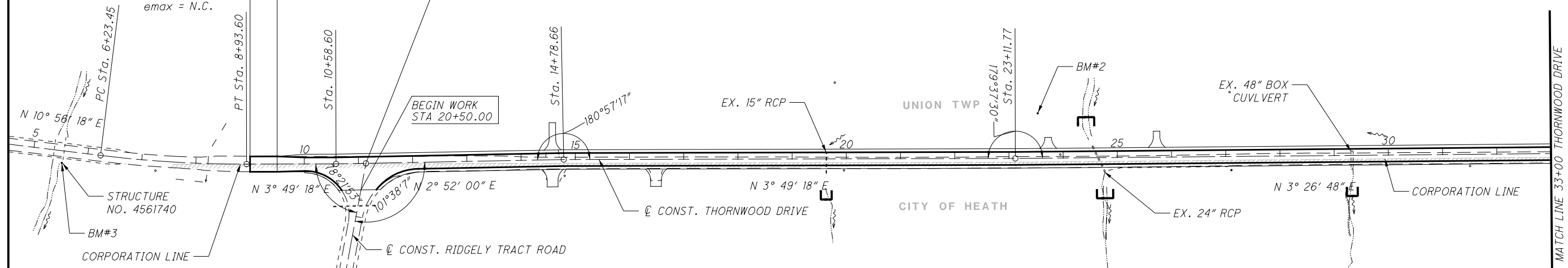




SCHEMATIC PLAN

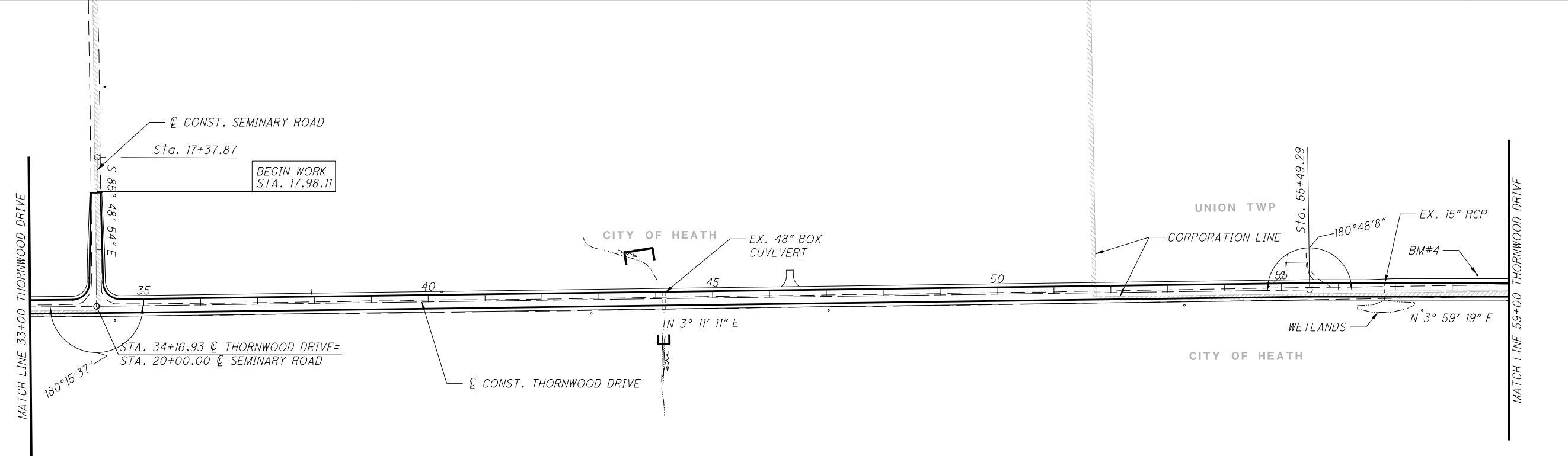
LIC-THORNWOOD

P.I. STA. 7+58.70
 $\Delta = 7^\circ 07' 00''$ (LT)
 $Dc = 2^\circ 38' 04''$
 $R = 2,174.92'$
 $T = 135.25'$
 $L = 270.15'$
 $E = 4.20'$
 $e_{max} = N.C.$

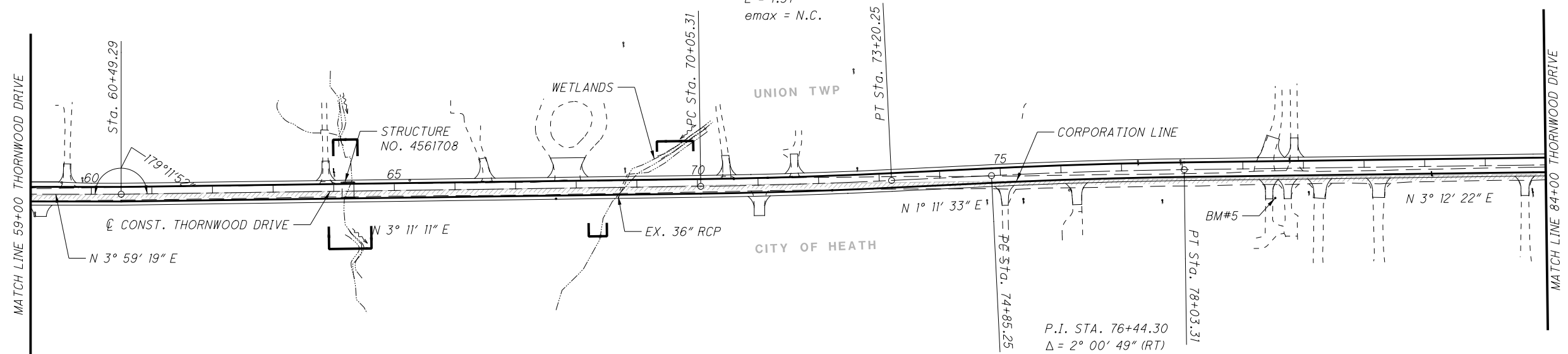


BENCHMARKS

<p>BM#2 IRON PIN SET WITH YELLOW 'TRAV' CAP ELEV=919.29, STA. 23+53.79, 82.89' LT</p> <p>BM#3 STATE OF OHIO DISC ON NORTHEAST CORNER OF HEADWALL ELEV=886.04, STA. 5+54.13, 22.35' RT</p> <p>BM#4 CHISELED 'SQUARE' ON SOUTHEAST CORNER OF HEADWALL ELEV=915.73, STA. 58+43.91, 26.32' LT</p> <p>BM#5 IRON PIN SET WITH YELLOW 'TRAV' CAP ELEV=918.43, STA. 79+52.85, 48.72' RT</p>	<p>BM#6 IRON PIN SET WITH YELLOW 'TRAV' CAP ELEV=919.62, STA. 97+54.68, 21.44' LT</p> <p>SOURCE BENCHMARK CONTROL POINT #21, CITY OF HEATH CONCRETE MONUMENT H-21 ELEV=906.25, STA. 109+22.87, 33.51' RTBM</p> <p>BM#7 CHISELED 'SQUARE' ON SOUTHEAST CORNER OF HEADWALL ELEV=893.04, STA. 116+44.57, 29.44' RT</p> <p>BM#8 IRON PIN SET WITH YELLOW 'TRAV' CAP ELEV=890.58, STA. 132+06.20, 56.07' LT</p>	<p>BM#9 IRON PIN SET WITH YELLOW 'TRAV' CAP ELEV=893.27, STA. 150+69.59, 62.77' LT</p> <p>BM#10 IRON PIN SET WITH YELLOW 'TRAV' CAP ELEV=903.17, STA. 166+94.94, 45.92' RT</p> <p>BM#11 CHISELED 'SQUARE' ON SOUTHEAST CORNER OF RESIDENTIAL PORCH AT 465 THORNWOOD DRIVE ELEV=993.44, STA. 182+91.35, 66.70' LT</p> <p>BM#12 IRON PIN SET WITH YELLOW 'TRAV' CAP ELEV=930.70, STA. 202+02.49, 59.92' RT</p>
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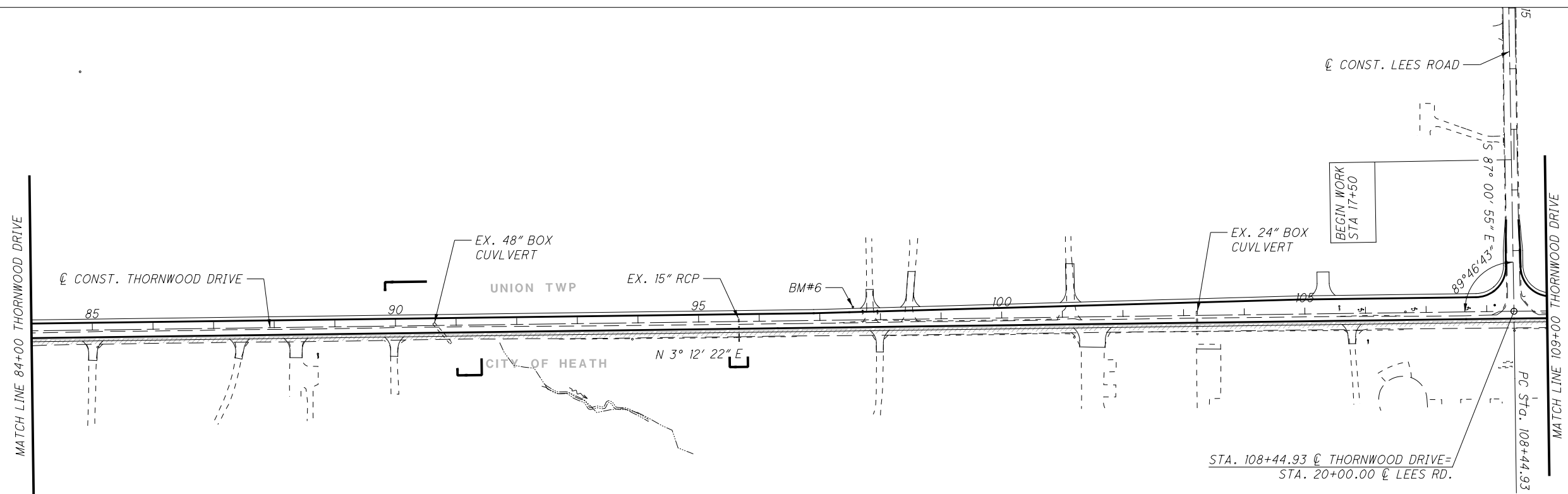


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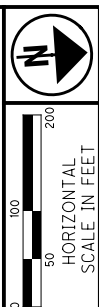


P.I. STA. 71+62.80
 $\Delta = 1^\circ 59' 38''$ (LT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 157.48'$
 $L = 314.93'$
 $E = 1.37'$
 $emax = N.C.$

P.I. STA. 76+44.30
 $\Delta = 2^\circ 00' 49''$ (RT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 159.05'$
 $L = 318.07'$
 $E = 1.40'$
 $emax = N.C.$

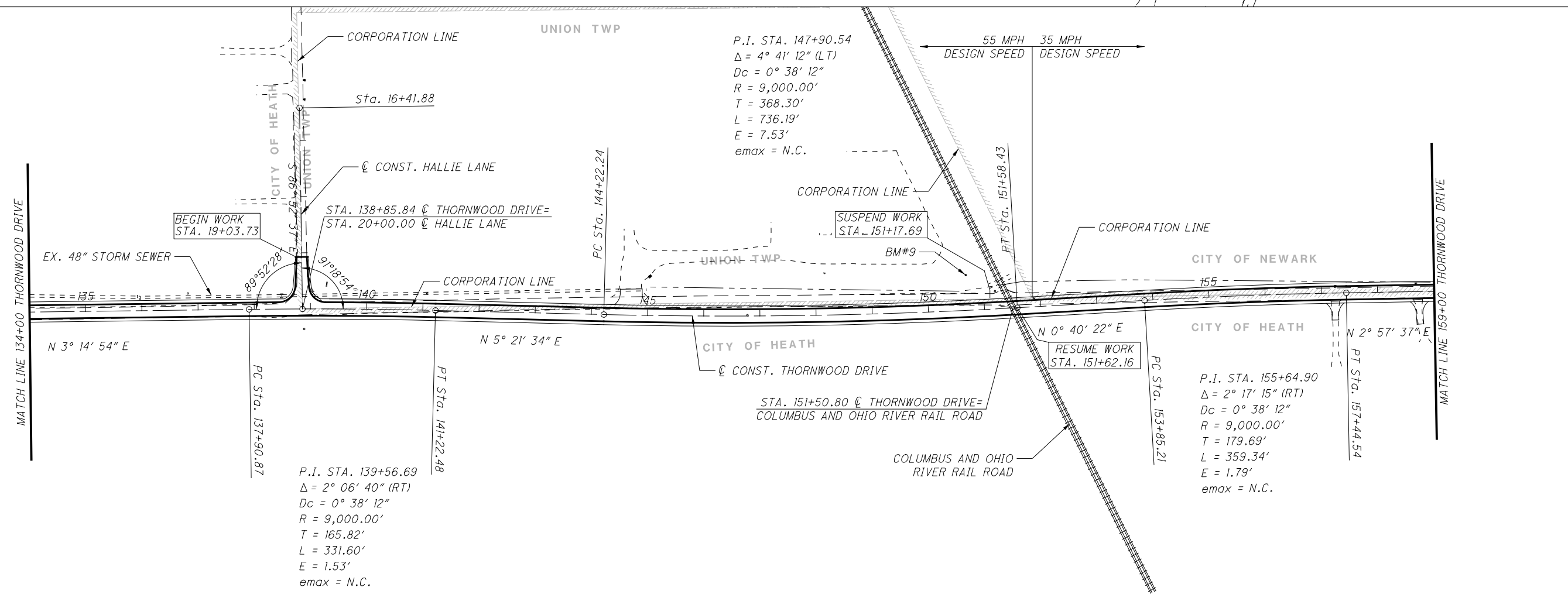
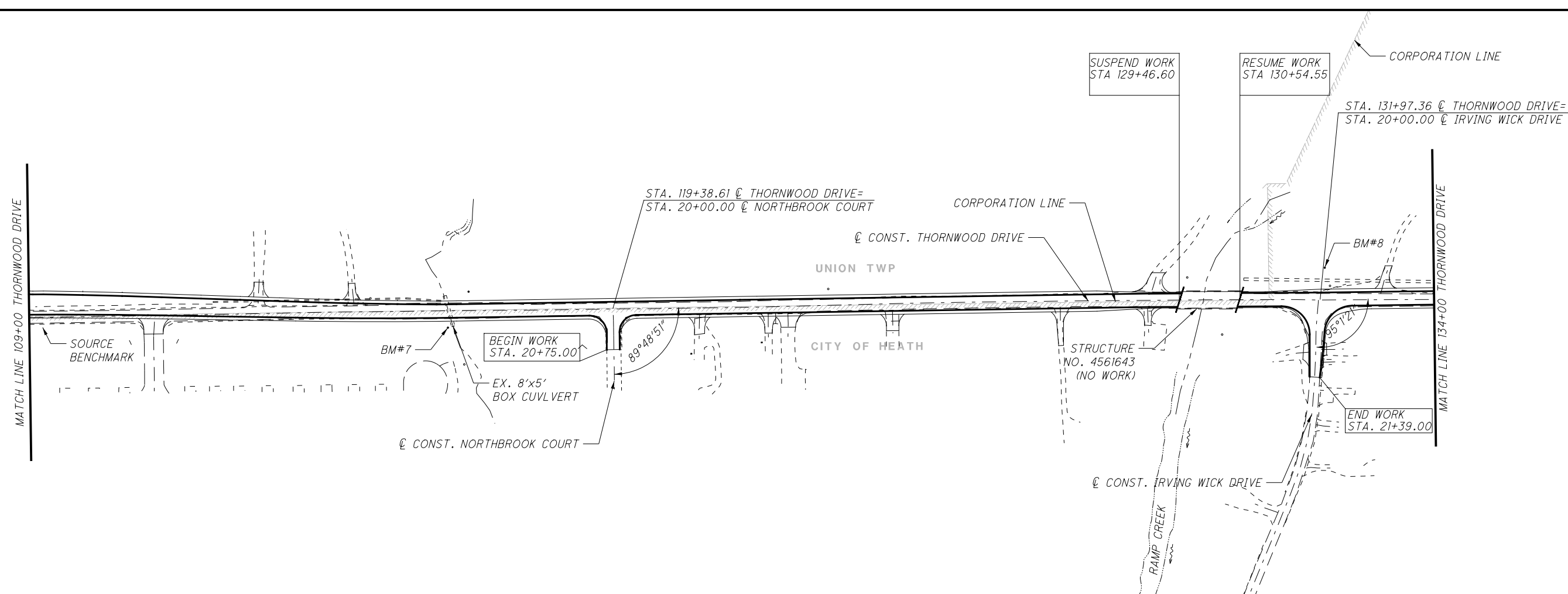


STA. 108+44.93 \bar{C} THORNWOOD DRIVE =
 STA. 20+00.00 \bar{C} LEES RD.



SCHEMATIC PLAN

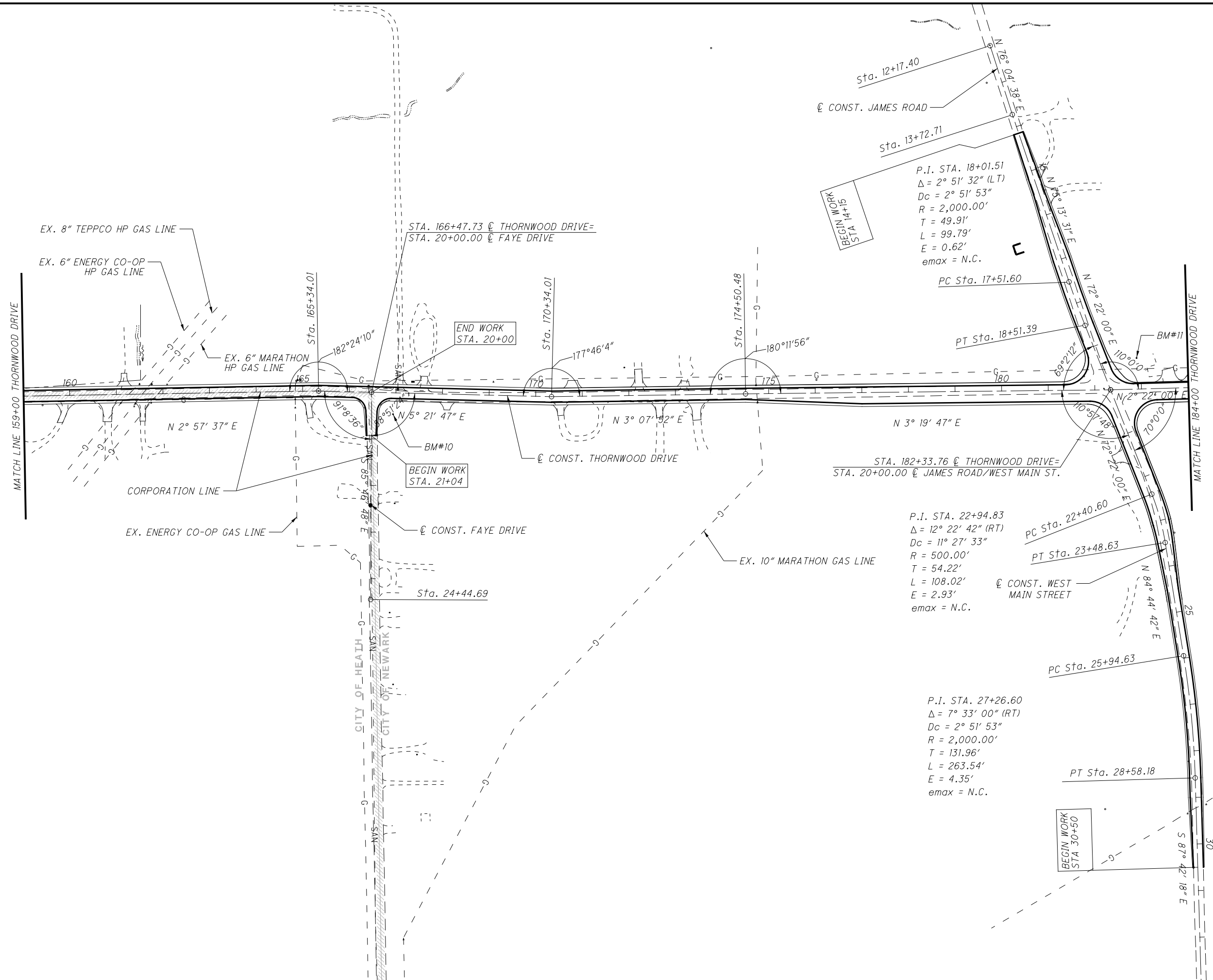
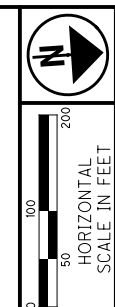
LIC-THORNWOOD



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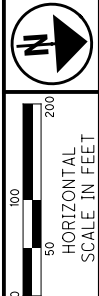
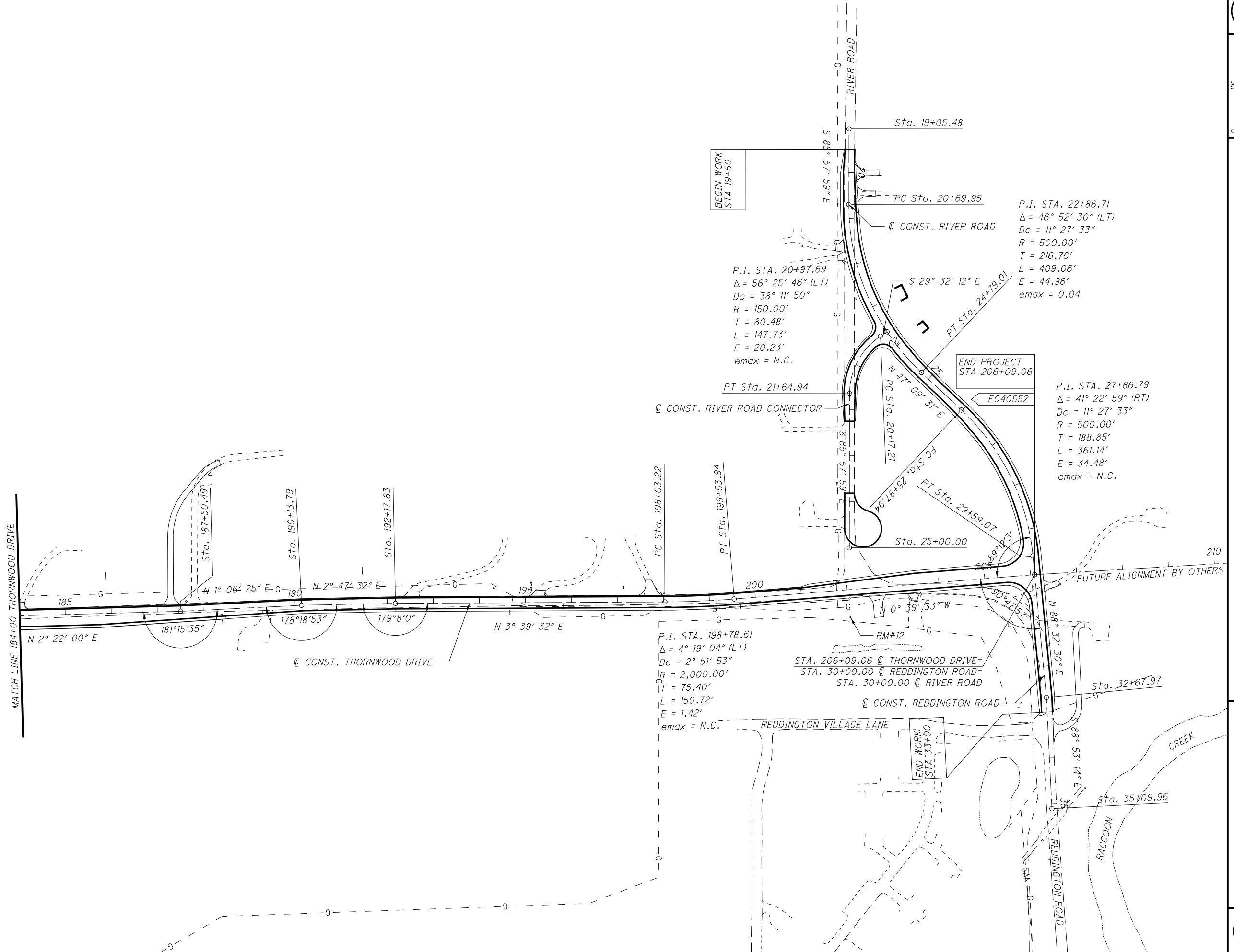
SCHEMATIC PLAN

LIC-THORNWOOD



SCHEMATIC PLAN

LIC-THORNWOOD



SCHEMATIC PLAN

LIC-THORNWOOD

THORNWOOD DRIVE

DESIGN DESIGNATION

CURRENT ADT (2010) -----7,180
 DESIGN YEAR ADT (2030) -----12,360
 DESIGN HOURLY VOLUME (2030) -----1,240
 DIRECTIONAL DISTRIBUTION -----55%
 TRUCKS (24 HOUR B&C) -----4%
 TD -----2%
 DESIGN SPEED -----55 MPH
 LEGAL SPEED -----50 MPH
 DESIGN FUNCTIONAL CLASSIFICATION ----
 URBAN COLLECTOR

THORNWOOD DRIVE - CITY OF NEWARK

DESIGN DESIGNATION

CURRENT ADT (2010) -----6,800
 DESIGN YEAR ADT (2030) -----11,040
 DESIGN HOURLY VOLUME (2030) -----1,100
 DIRECTIONAL DISTRIBUTION -----52%
 TRUCKS (24 HOUR B&C) -----4%
 TD -----2%
 DESIGN SPEED -----35 MPH
 LEGAL SPEED -----35 MPH
 DESIGN FUNCTIONAL CLASSIFICATION ----
 URBAN COLLECTOR

JAMES ROAD

DESIGN DESIGNATION

CURRENT ADT (2010) -----1,980
 DESIGN YEAR ADT (2030) -----3,320
 DESIGN HOURLY VOLUME (2030) -----370
 DIRECTIONAL DISTRIBUTION -----55%
 TRUCKS (24 HOUR B&C) -----4%
 TD -----2%
 DESIGN SPEED -----35 MPH
 LEGAL SPEED -----35 MPH
 DESIGN FUNCTIONAL CLASSIFICATION ----
 LOCAL

WEST MAIN STREET

DESIGN DESIGNATION

CURRENT ADT (2010) -----3,440
 DESIGN YEAR ADT (2030) -----4,380
 DESIGN HOURLY VOLUME (2030) -----490
 DIRECTIONAL DISTRIBUTION -----60%
 TRUCKS (24 HOUR B&C) -----4%
 TD -----2%
 DESIGN SPEED -----35 MPH
 LEGAL SPEED -----35 MPH
 DESIGN FUNCTIONAL CLASSIFICATION ----
 URBAN COLLECTOR

RIVER ROAD

DESIGN DESIGNATION

CURRENT ADT (2010) -----1,940
 DESIGN YEAR ADT (2030) -----2,860
 DESIGN HOURLY VOLUME (2030) -----290
 DIRECTIONAL DISTRIBUTION -----55%
 TRUCKS (24 HOUR B&C) -----4%
 TD -----2%
 DESIGN SPEED -----35 MPH
 LEGAL SPEED -----35 MPH
 DESIGN FUNCTIONAL CLASSIFICATION ----
 LOCAL

REDDINGTON ROAD

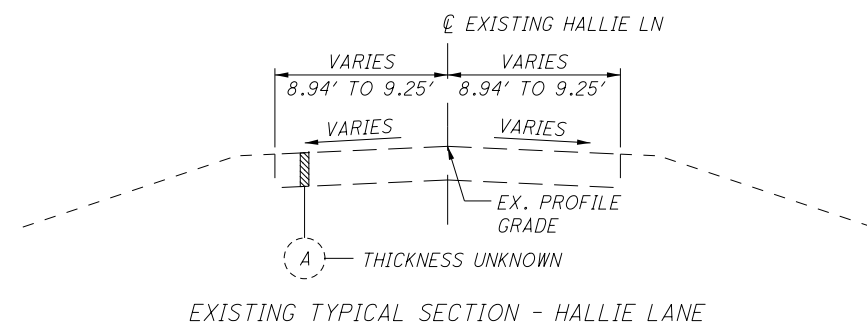
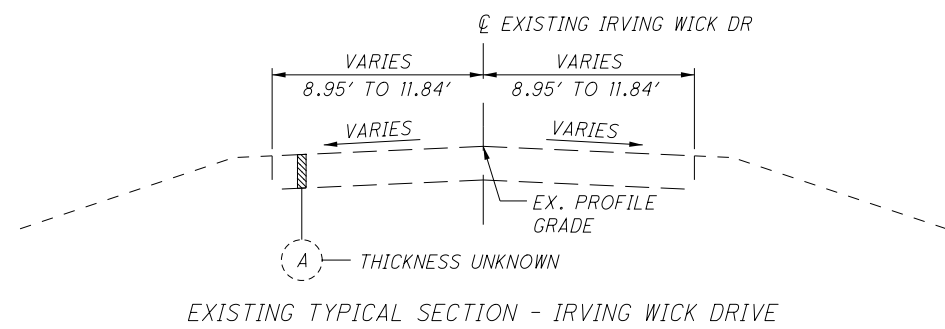
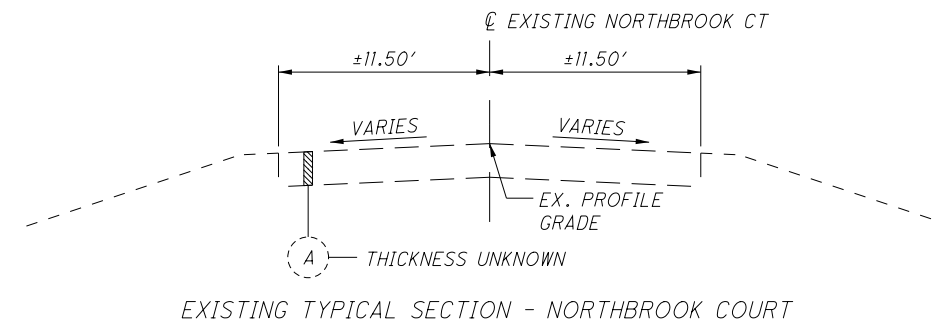
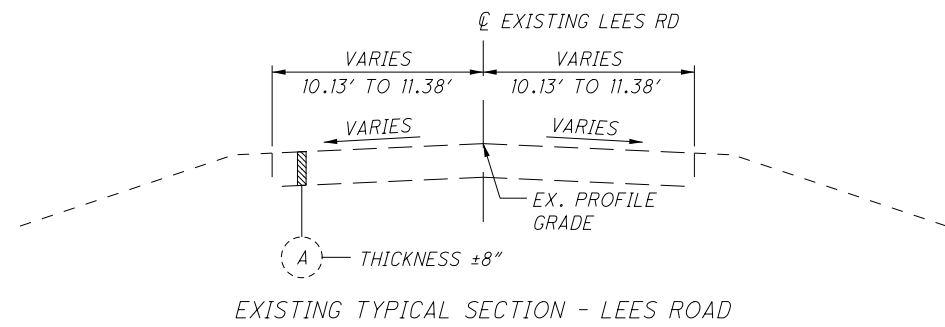
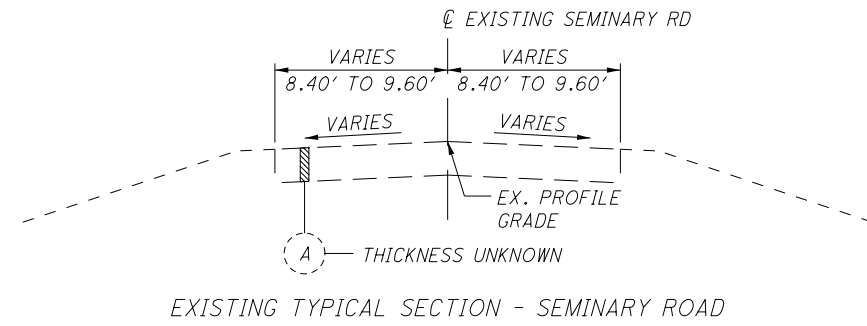
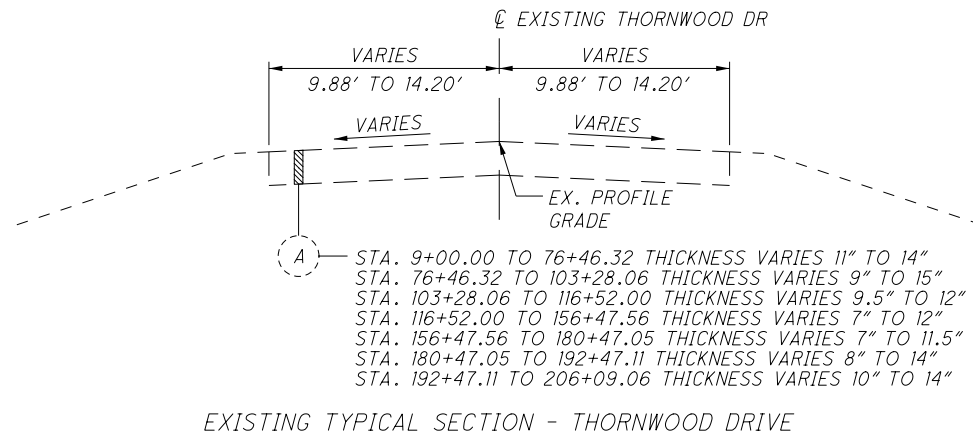
DESIGN DESIGNATION

CURRENT ADT (2010) -----5,300
 DESIGN YEAR ADT (2030) -----10,200
 DESIGN HOURLY VOLUME (2030) -----1,020
 DIRECTIONAL DISTRIBUTION -----55%
 TRUCKS (24 HOUR B&C) -----4%
 TD -----2%
 DESIGN SPEED -----35 MPH
 LEGAL SPEED -----35 MPH
 DESIGN FUNCTIONAL CLASSIFICATION ----
 URBAN COLLECTOR

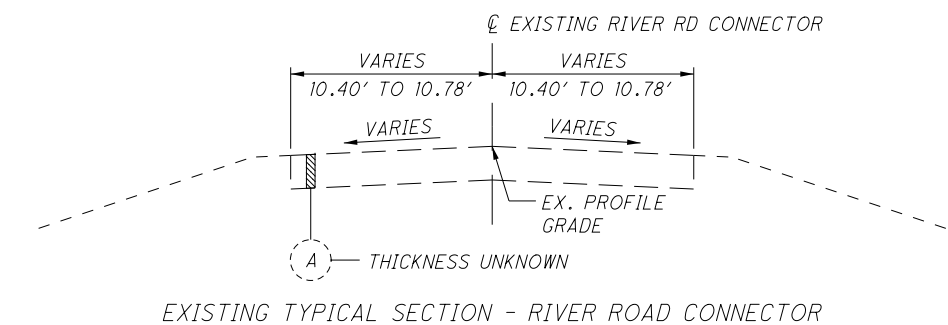
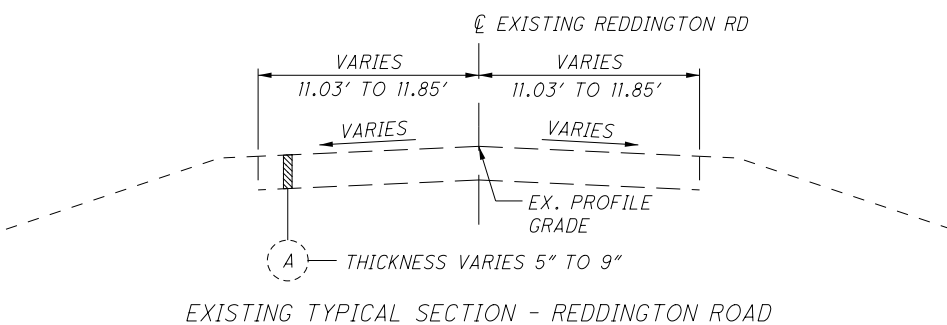
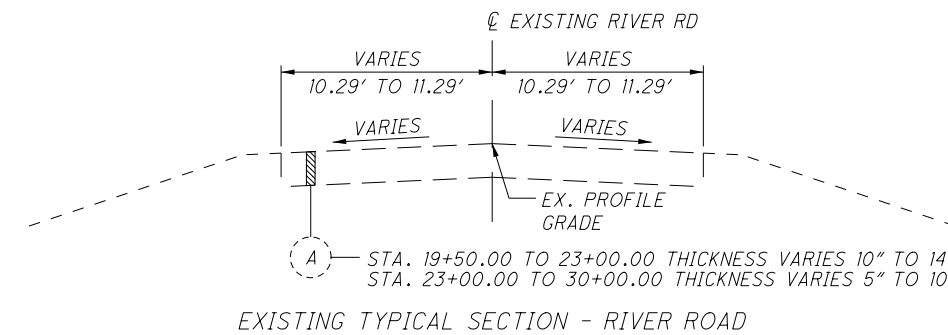
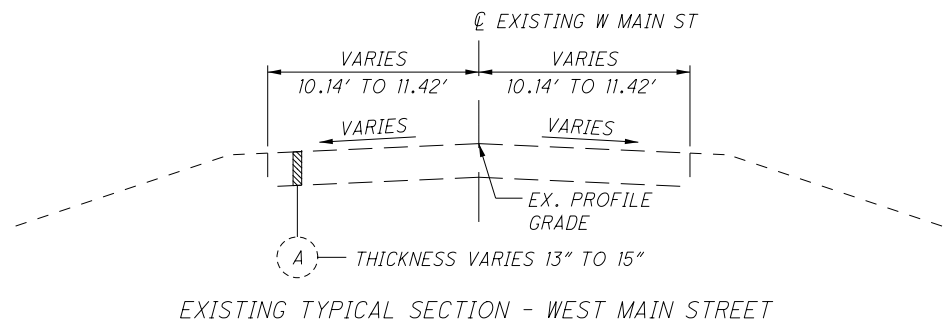
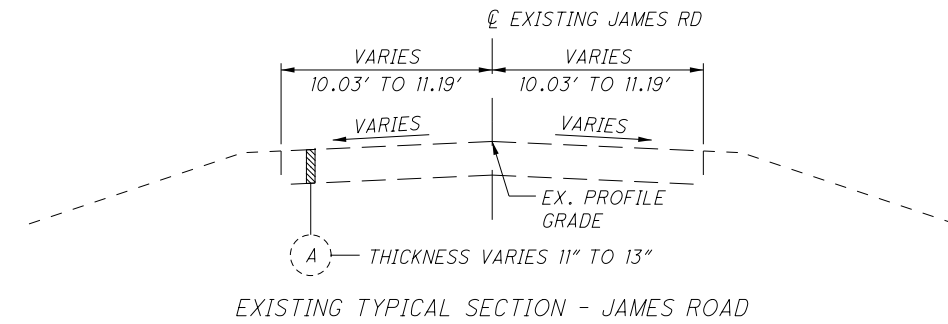
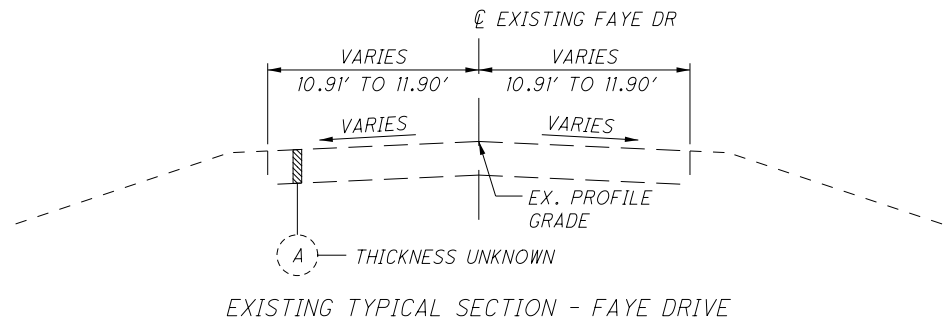
LEES ROAD

DESIGN DESIGNATION

CURRENT ADT (2010) -----1,280
 DESIGN YEAR ADT (2030) -----2,240
 DESIGN HOURLY VOLUME (2030) -----230
 DIRECTIONAL DISTRIBUTION -----55%
 TRUCKS (24 HOUR B&C) -----4%
 TD -----2%
 DESIGN SPEED -----35 MPH
 LEGAL SPEED -----35 MPH
 DESIGN FUNCTIONAL CLASSIFICATION ----
 RURAL MINOR COLLECTOR



(A) EXISTING ASPHALT PAVEMENT



(A) EXISTING ASPHALT PAVEMENT

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+ VARIES
 0' @ STA. 9+50.00 TO 14' @ STA. 10+00.00
 14' @ STA. 10+00.00 TO STA. 57+00.00
 14' @ STA. 57+00.00 TO 9' @ STA. 60+50.00
 9' @ STA. 60+50.00 TO STA. 70+00.00

9' @ STA. 116+00.00 TO BEGIN RAMP CREEK BRIDGE @ STA. 129+40.00
 11' @ END RAMP CREEK BRIDGE @ STA. 130+70.00 TO STA. 135+00.00

++ VARIES
 4' @ STA. 9+50.00 TO STA. 57+00.00
 4' @ STA. 57+00.00 TO 13' @ STA. 60+50.00
 13' @ STA. 60+50.00 TO STA. 70+00.00

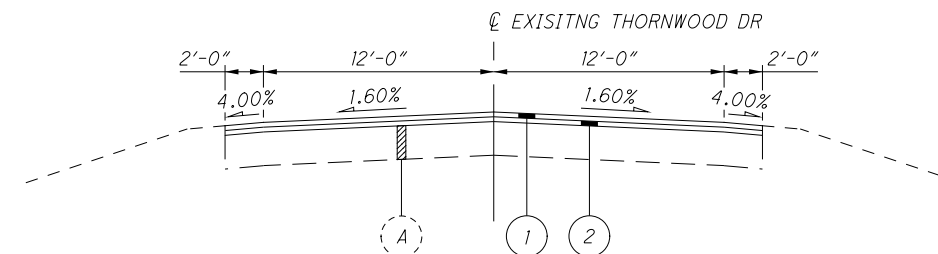
9' @ STA. 116+00.00 TO BEGIN RAMP CREEK BRIDGE @ STA. 129+40.00
 8' @ END RAMP CREEK BRIDGE @ STA. 130+70.00 TO STA. 135+00.00

* VARIES
 10' @ STA. 9+50.00 TO STA. 13+00.00
 10' @ STA. 13+00.00 TO 2' @ STA. 14+80.00
 2' @ STA. 14+80.00 TO STA. 55+50.00
 2' @ STA. 55+50.00 TO 10' @ 60+50.00
 10' @ STA. 60+50.00 TO STA. 70+00.00

9' @ STA. 116+25.00 TO STA. 132+00.00
 9' @ STA. 132+00.00 TO 6' @ STA. 133+50.00
 6' @ STA. 133+50.00 TO STA. 135+00.00

** VARIES
 8' @ STA. 9+50.00 TO STA. 13+00.00
 10' @ STA. 13+00.00 TO 16' @ STA. 14+80.00
 16' @ STA. 14+80.00 TO STA. 55+50.00
 16' @ STA. 55+50.00 TO 10' @ 60+50.00
 8' @ STA. 60+50.00 TO STA. 70+00.00

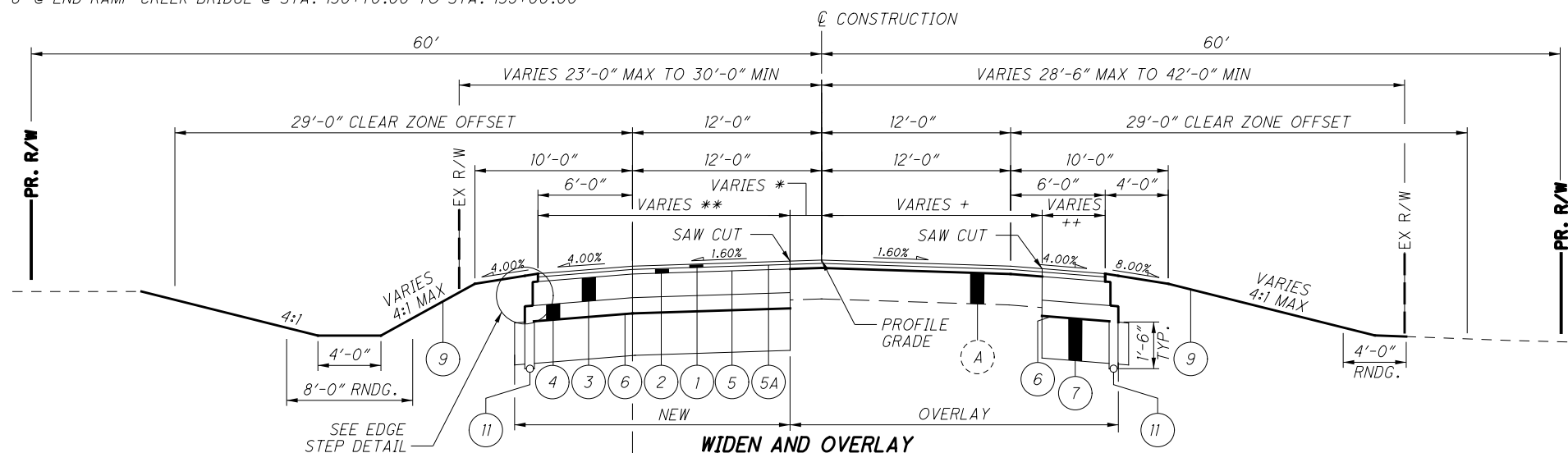
9' @ STA. 116+25.00 TO STA. 132+00.00
 9' @ STA. 132+00.00 TO 12' @ STA. 133+50.00
 6' @ STA. 133+50.00 TO STA. 135+00.00



TYPICAL SECTION - THORNWOOD DRIVE
 STA. 9+00 TO STA. 9+50

LEGEND

- (A) EXISTING ASPHALT PAVEMENT ($\pm 12''$)
- (1) ITEM 446 - $1\frac{1}{4}''$ ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
- (2) ITEM 446 - $1\frac{3}{4}''$ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
- (3) ITEM 301 - 9" BITUMINOUS AGGREGATE BASE, PG64-22
- (4) ITEM 304 - 6" AGGREGATE BASE
- (5) ITEM 407 - TACK COAT
- (5A) ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
- (6) ITEM 204 - PROOF ROLLING
- (7) ITEM 206 - CEMENT STABILIZED SUBGRADE (16")
- (8) ITEM 606 - GUARDRAIL TYPE 5
- (9) ITEM 659 - SEEDING AND MULCHING
- (10) ITEM 609 - CURB, TYPE 4
- (11) ITEM 605 - 6" BASE PIPE UNDERDRAIN
- (12) ITEM 609 - CURB, TYPE 6
- (13) ITEM 203 - EMBANKMENT
- (14) ITEM 203- EXCAVATION
- (15) NON-REINFORCED CONCRETE PAVEMENT

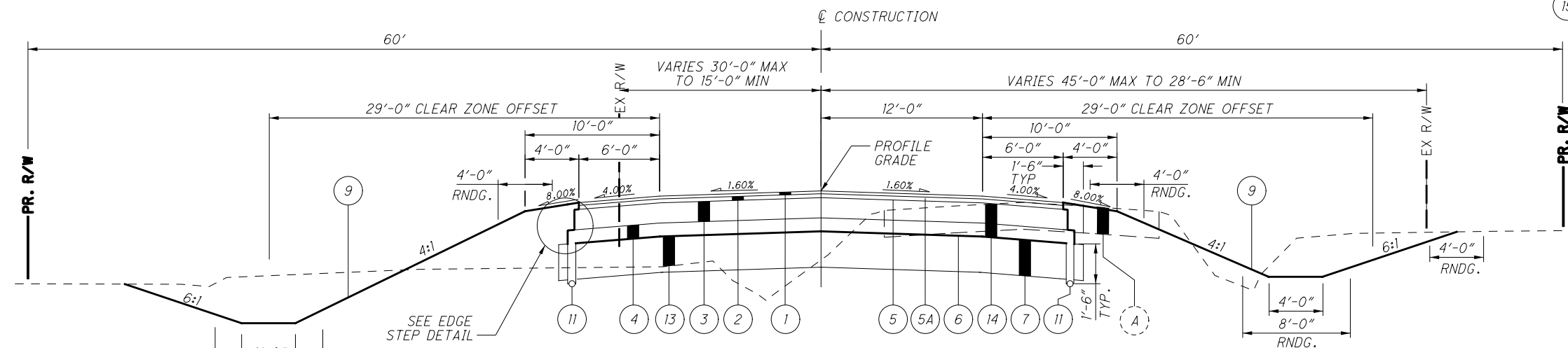
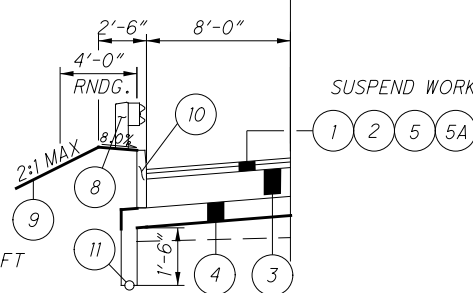


WIDEN AND OVERLAY

SECTION APPLIES:
 STA. 9+50.00 TO STA. 70+00.00 = 6050.00 FT
 STA. 116+25.00 TO STA. 135+00.00 = 1875.00 FT
 SUSPEND WORK AT RAMP CREEK BRIDGE STA. 129+46.60 TO 130+54.55 = (107.95 FT)
 TOTAL = 7817.05 FT

GUARDRAIL DETAIL LEFT SIDE

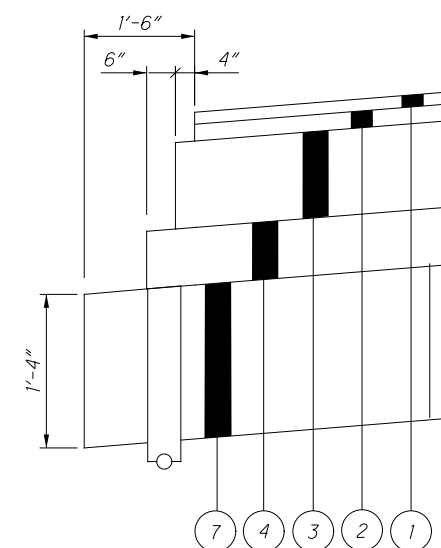
SECTION APPLIES:
 STA. 57+00.00 TO STA. 59+47.00 = 247.00 FT



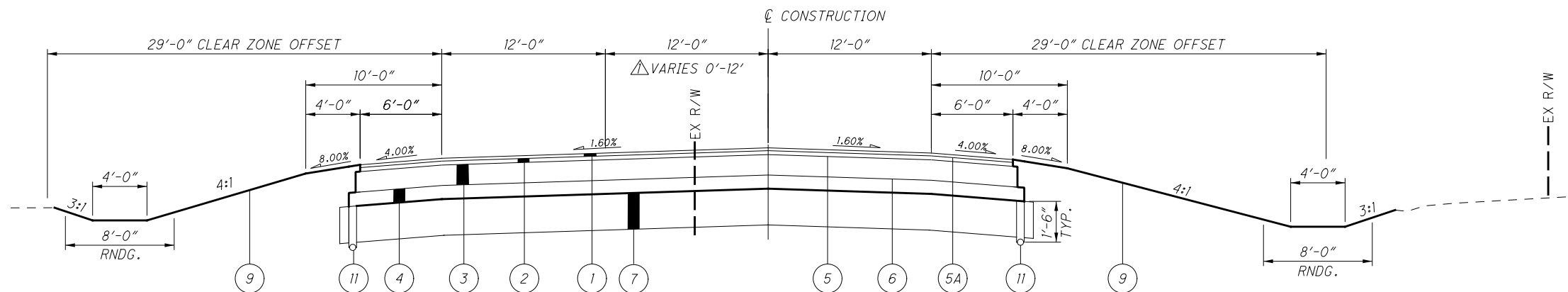
FULL DEPTH REPLACEMENT

SECTION APPLIES:
 STA. 70+00.00 TO STA. 96+90.00 = 2690.00 FT
 STA. 135+00.00 TO STA. 157+25.00 = 2225.00 FT
 DEDUCT FOR RAILROAD STA. 151+18
 TO STA. 151+62 = 44 FT

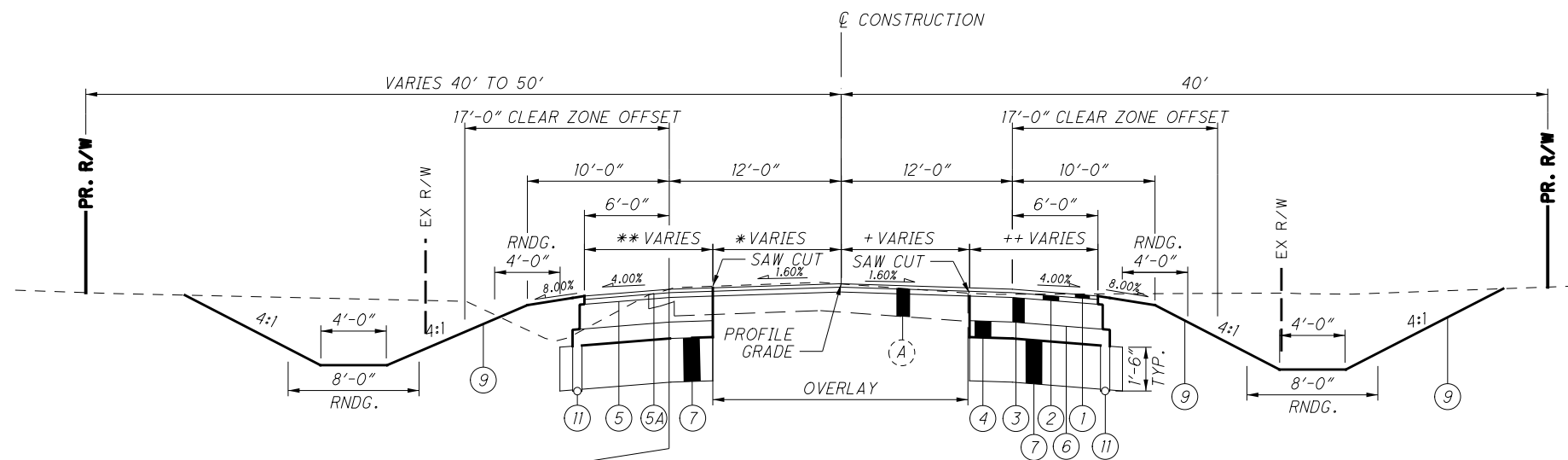
TOTAL = 4871 FT



EDGE STEP DETAIL



NORMAL SECTION - THORNWOOD DRIVE
 SECTION APPLIES: STA. 96+90.00 TO STA. 116+25.00 = 1935.00 FT
 VARIES 0' @ STA. 104+40.00 TO 12' @ STA. 104+90.00
 12' STA. 104+90.00 TO STA. 109+25.00
 VARIES 12' @ STA. 109+25.00 TO 0' @ STA. 116+25.00



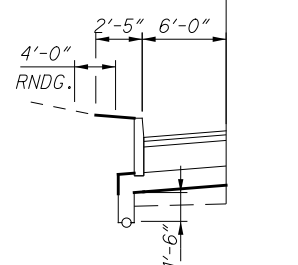
WIDEN AND OVERLAY - THORNWOOD DRIVE
 SECTION APPLIES:
 STA. 157+25.00 TO STA. 172+05.00 = 1480.00 FT

* VARIES
 8' @ STA. 157.25.00 TO STA. 165+50.00
 8' @ STA. 165+50.00 TO 2' @ STA. 162+50.00
 2' @ STA. 167+50.00 TO STA. 168+50.00
 2' @ STA. 168+50.00 TO 8' @ 170+50.00
 8' @ STA. 170+50.00 TO STA. 172+05.00

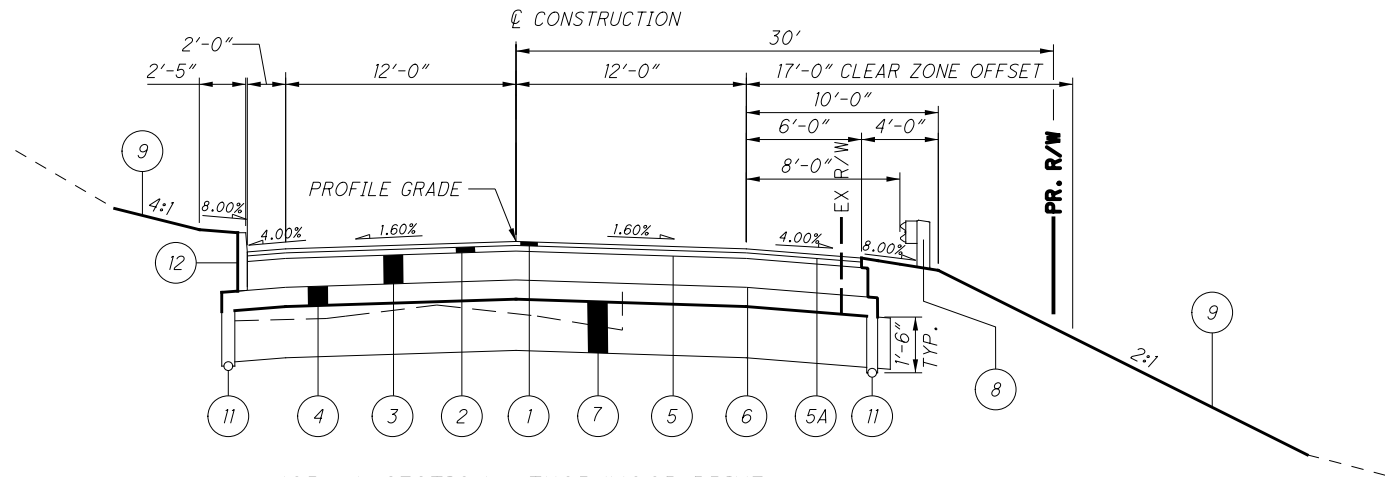
** VARIES
 10' @ STA. 157+25.00 TO STA. 165+50.00
 10' @ STA. 165+50.00 TO 16' @ STA. 167+50.00
 16' @ STA. 167+50.00 TO STA. 168+50.00
 16' @ STA. 168+50.00 TO 10' @ STA. 170+50.00
 10' @ STA. 170+50.00 TO STA. 172+05.00

+ VARIES
 8' @ STA. 157+25.00 TO STA. 165+95.00
 14' @ STA. 166+91.00 TO STA. 169+00.00
 14' @ STA. 169+00.00 TO 10' @ STA. 170+50.00
 10' @ STA. 170+50.00 TO STA. @ 172+50.00

++ VARIES
 10' @ STA. 157+25.00 TO STA. 165+95.00
 4' @ STA. 166+91.00 TO STA. 169+00.00
 4' @ STA. 169+00.00 TO 8' @ STA. 170+50.00
 8' @ STA. 170+50.00 TO STA. 172+05.00



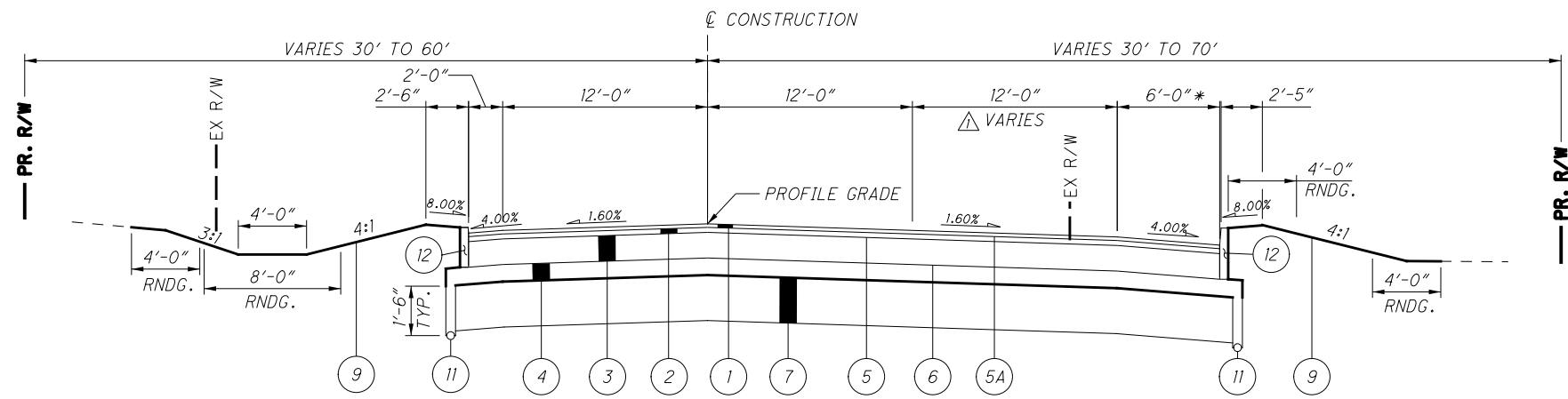
CURB DETAIL LEFT SIDE
 SECTION APPLIES:
 STA. 170+00.00 TO STA. 172+05.00 = 205.00 FT



NORMAL SECTION - THORNWOOD DRIVE
 SECTION APPLIES: STA. 190+14.07 TO STA. 201+00.00 = 1085.93 FT

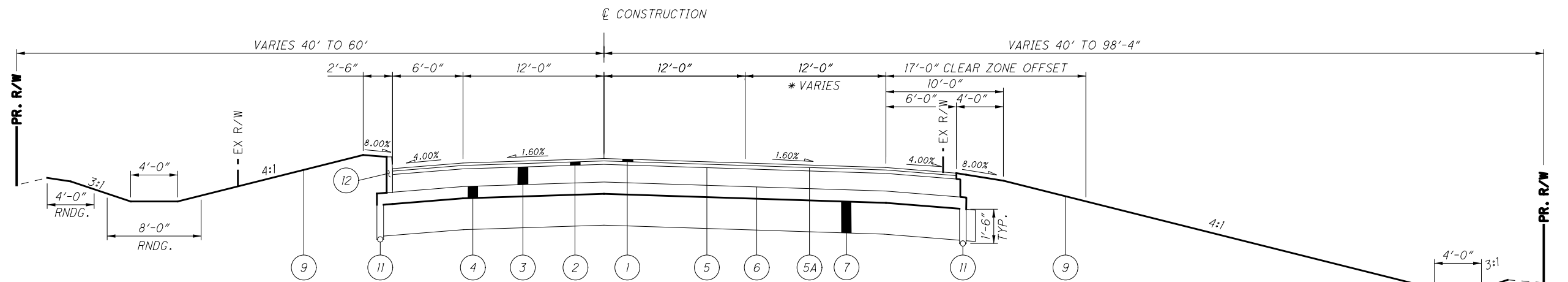
FOR PAVEMENT LEGEND SEE SHEET 10

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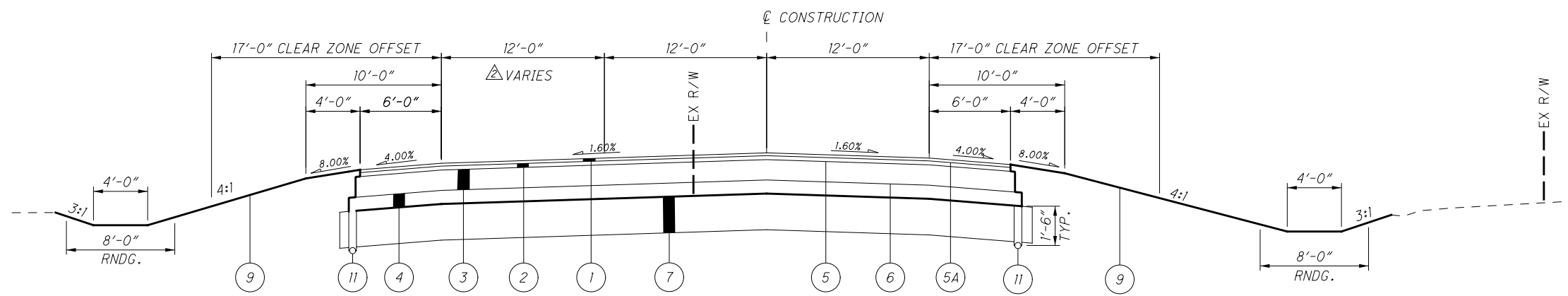
NORMAL SECTION - THORNWOOD DRIVE

SECTION APPLIES: STA. 182+33.76 TO STA. 190+14.07 = 780.31 FT
VARIES 12'-0' - STA. 185+75.97 TO STA. 190+14.07
* APPLIES FROM STA. 188+50.00 TO STA. 190+14.07 (NO CURB)



NORMAL SECTION - THORNWOOD DRIVE

SECTION APPLIES: STA. 172+05.00 TO STA. 182+33.76 = 1028.76 FT
STA. 181+37.18 TO STA. 182+33.76 INTERSECTION
AREA - SEE DETAIL SHEET
* VARIES 0'-12' FROM STA. 174+50.00 TO STA. 177+00.00

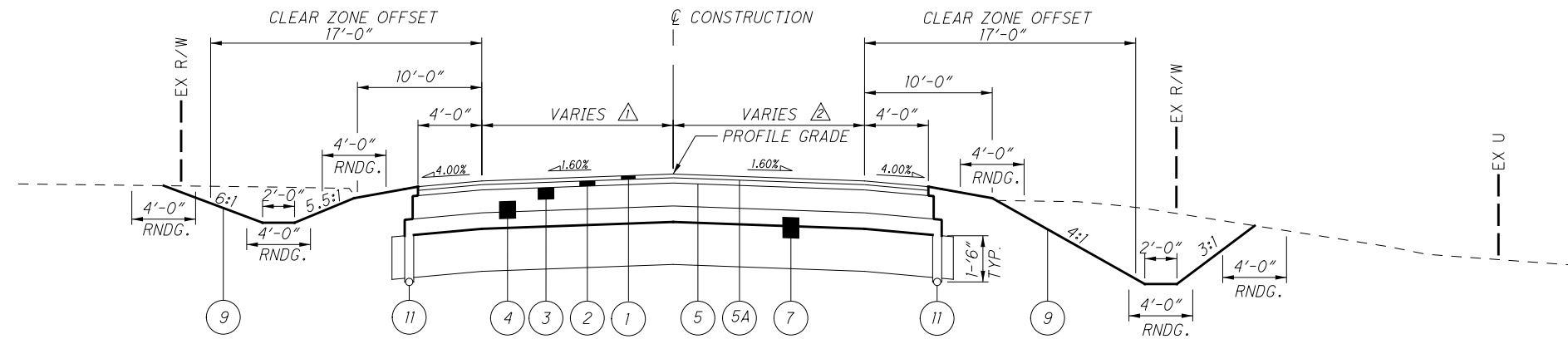


NORMAL SECTION - THORNWOOD DRIVE

SECTION APPLIES: STA. 201+00.00 TO STA. 206+09.06 = 509.06 FT
VARIES 0'-12' - STA. 201+00.00 TO STA. 203+50.00
STA. 205+40.68 TO STA. 206+09.06 - INTERSECTION
AREA - SEE DETAIL SHEET

FOR PAVEMENT LEGEND SEE SHEET 10

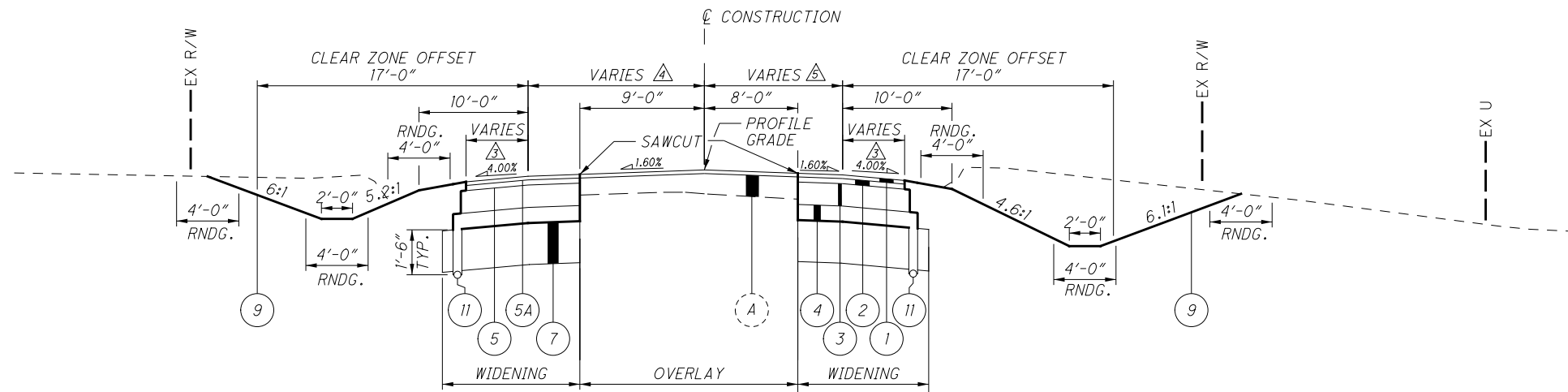
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NORMAL SECTION - SEMINARY ROAD

SECTION APPLIES
STA. 19+00.00 TO STA. 20+00.00 = 100.00 FT
DEDUCT FOR THORNWOOD DRIVE STA. 19+88.00 TO STA. 20+00.00 = 12.00 FT
TOTAL = 88.00 FT

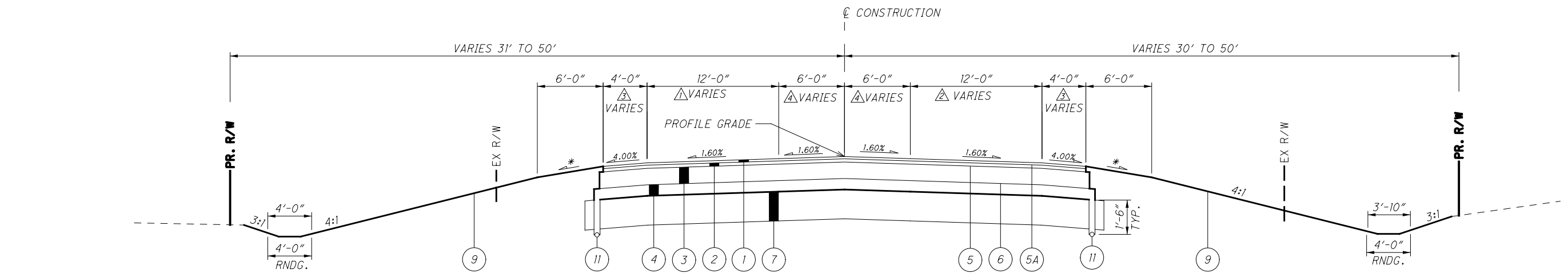
- △ VARIES 10'-6" @ STA. 19+00.00 TO 12'-0" @ STA. 19+50.00
- △ VARIES 10'-0" @ STA. 19+00.00 TO 12'-0" @ STA. 19+50.00



NORMAL SECTION - SEMINARY ROAD

SECTION APPLIES
STA. 18+00.00 TO STA. 19+00.00 = 100.00 FT

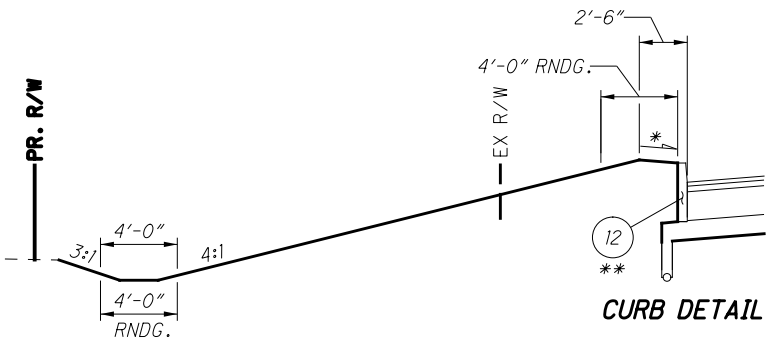
- △ VARIES 0'-0" @ STA. 18+00.00 TO 4'-0" @ STA. 19+00.00
- △ VARIES 9'-0" @ STA. 18+00.00 TO 10'-6" @ STA. 19+00.00
- △ VARIES 8'-0" @ STA. 18+00.00 TO 10'-0" @ STA. 19+00.00



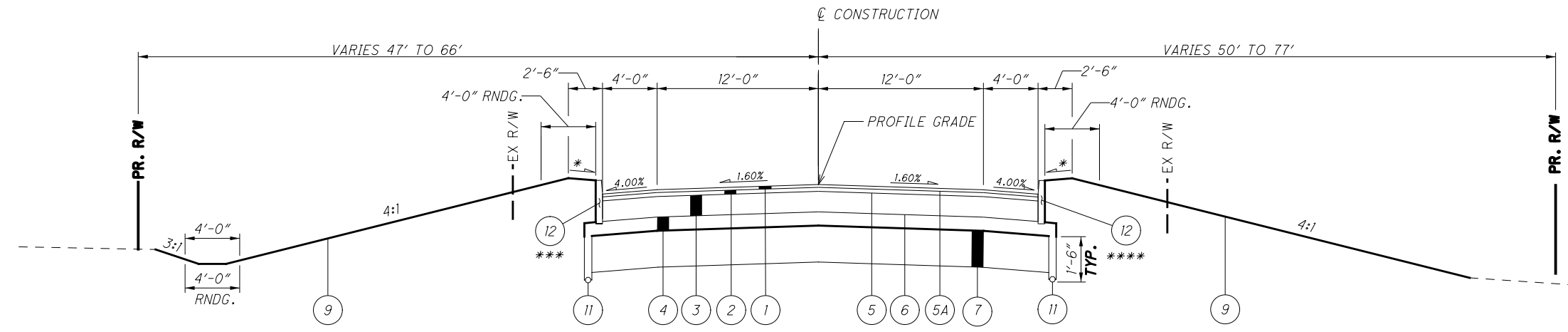
NORMAL SECTION - JAMES/WEST MAIN ROAD

SECTION APPLIES:
 STA. 14+15.00 TO STA. 18+80.00 = 465.00 FT
 STA. 24+75.00 TO STA. 30+50.00 = 575.00 FT
 TOTAL LENGTH = 1040.00 FT

- △ VARIES 9'-6" - 12' - STA. 14+15.00 TO STA. 15+15.00 (TO TIE INTO EX)
- △ VARIES 10'-6" - 12' - STA. 14+15.00 TO STA. 15+15.00 (TO TIE INTO EX)
- △ VARIES 12' - 9'-4" - STA. 29+00.00 TO STA. 30+50.00 (TO TIE INTO EX)
- △ VARIES 0' - 4' - STA. 14+15.00 TO STA. 15+15.00 (TO TIE INTO EX)
- △ VARIES 4' - 0' - STA. 29+00.00 TO STA. 30+50.00 (TO TIE INTO EX)
- △ VARIES 0'-6" - STA. 15+50.00 TO STA. 17+00.00
- △ VARIES 6'-0" - STA. 23+00.00 TO STA. 24+50.00
- 0' - STA. 24+50.00 TO STA. 24+75.00



CURB DETAIL



NORMAL SECTION - JAMES/WEST MAIN ROAD

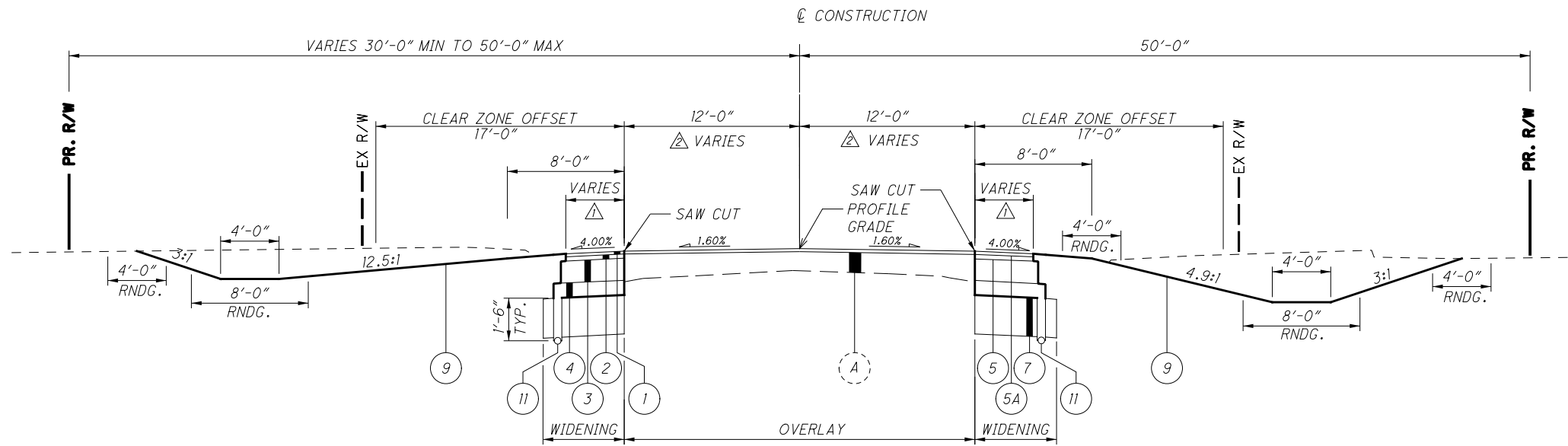
SECTION APPLIES:
 STA. 18+80.00 TO STA. 19+07.55 = 27.55 FT
 STA. 19+07.55 TO STA. 21+03.50 - INTERSECTION AREA- SEE DETAIL SHEET
 STA. 18+80.00 TO STA. 24+75.00 = 371.5FT
 TOTAL LENGTH = 399.05 FT

* = 8.00%
 ** = STA. 24+50.00 TO 24+75.00 LT. & RT.
 *** = STA. 18+80.00 TO 24+75.00
 **** = BEGIN @ STA. 19+00.00 TO STA. 19+07.55
 STA. 21+03.50 TO STA. 24+50.00

FOR PAVEMENT LEGEND SEE SHEET 10

IP_PWP:dms08268\78116GY004.DGN 27-JUL-2010 4:42PM rgreenland

IP_PWP:dms08268\78116GY005.DGN 27-JUL-2010 4:42PM rgreenland

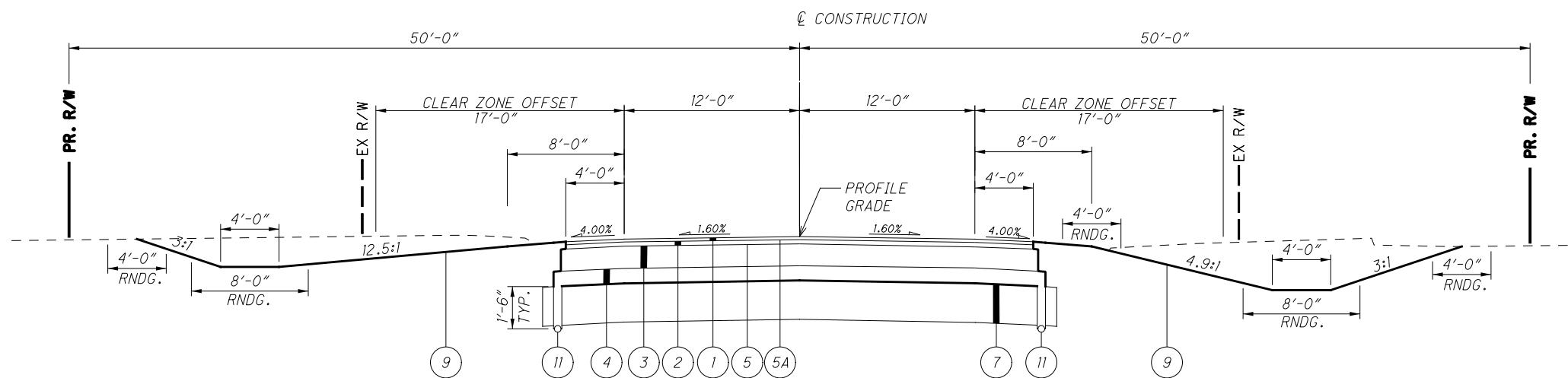


NORMAL SECTION - LEES ROAD

SECTION APPLIES:
STA. 18+50.00 TO STA. 19+00.00 = 50.00 FT

△ VARIES 2' @ STA. 18+50.00 TO 4' @ STA. 19+00.00

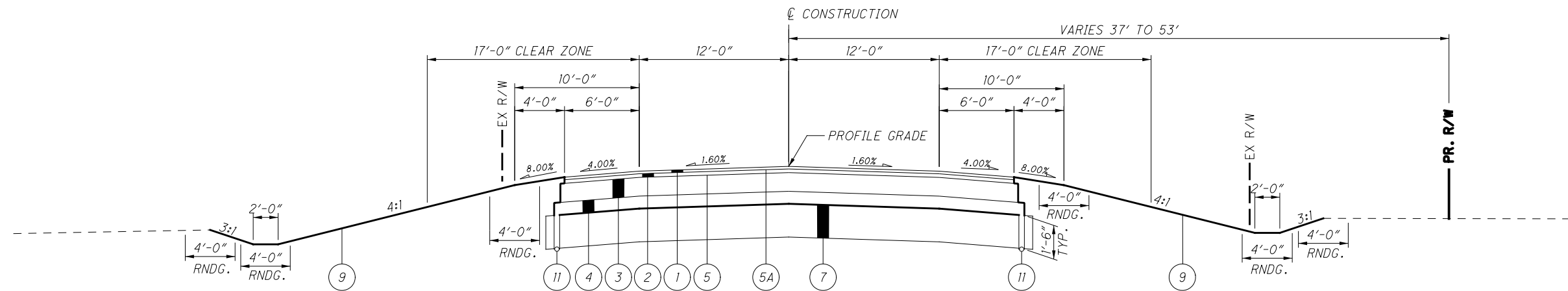
△ VARIES 10' @ STA. 18+50.00 TO 12' @ STA. 19+00.00



NORMAL SECTION - LEES ROAD

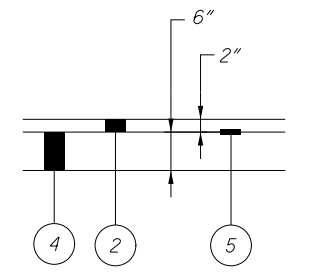
SECTION APPLIES STA. 19+00.00 TO STA. 20+00.00 = 100.00 FT
DEDUCT FOR THORNWOOD DRIVE STA. 19+76 TO STA. 20+00 = 24.00 FT
TOTAL = 76.00 FT

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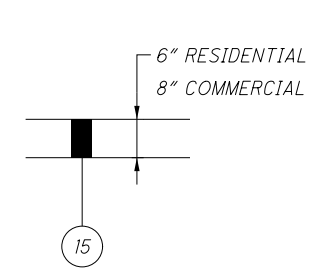


NORMAL SECTION - RIVER CONNECTOR ROAD

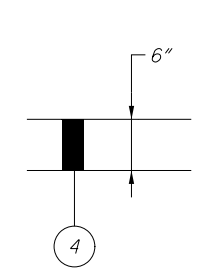
SECTION APPLIES:
 STA. 20+00 TO STA. 20+40.96 - INTERSECTION AREA - SEE DETAIL SHEET 266
 STA. 20+40.96 TO STA. 23+87.87 = 346.91 FT
 STA. 23+87.87 TO STA. 24+88.49 - CUL-D-SAC - SEE DETAIL SHEET 288



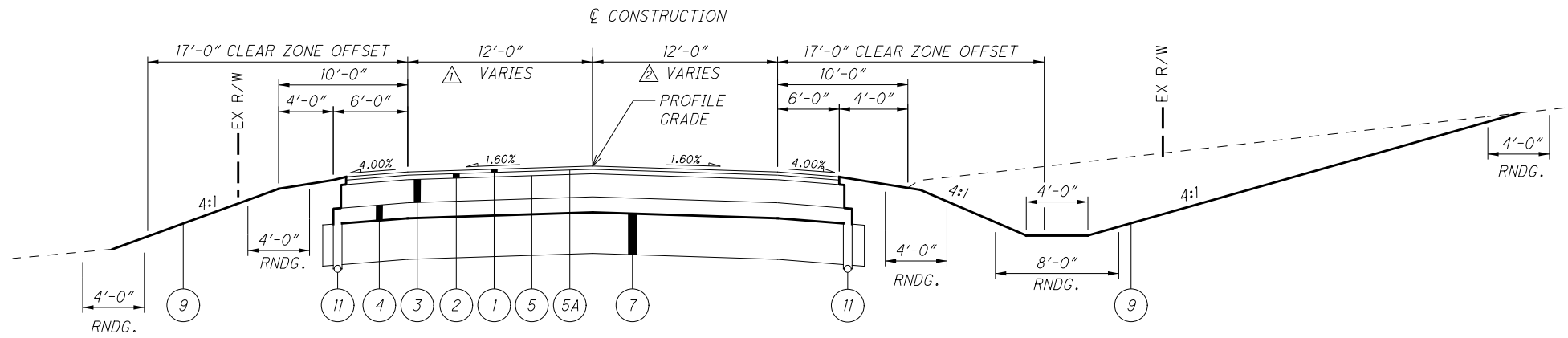
ASPHALT DRIVE DETAIL



CONCRETE DRIVE DETAIL



GRAVEL DRIVE DETAIL



NORMAL SECTION - RELOCATED RIVER ROAD

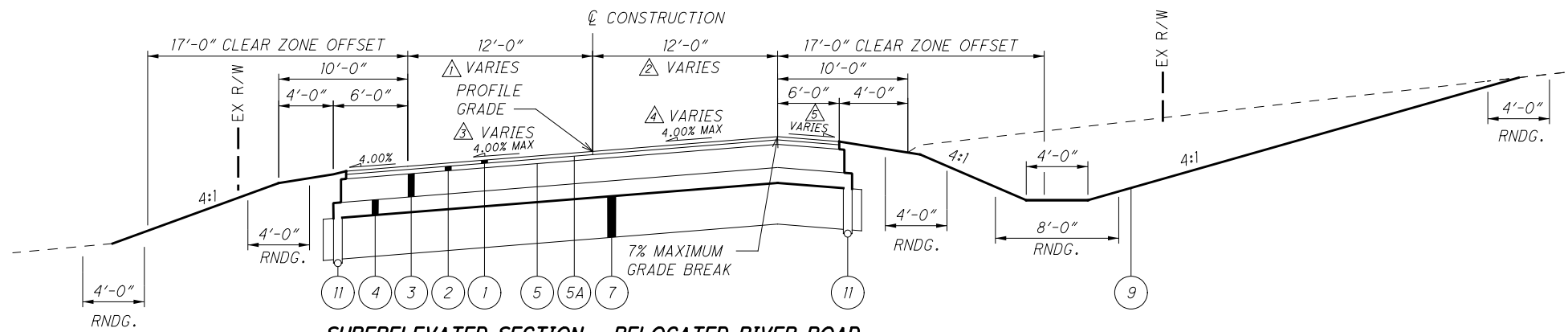
SECTION APPLIES:
 STA. 19+50.00 TO STA. 19+81.00 = 31.00 FT
 STA. 25+64.00 TO STA. 33+00.00 = 736.00 FT

STA. 29+19.84 TO STA. 30+61.14 - INTERSECTION AREA - SEE DETAIL SHEET
 △ VARIES 12'-16' - STA. 20+00 TO STA. 21+00.00
 16' - STA. 21+00.00 TO STA. 24+29.01 (CURVE WIDENING)
 VARIES 16'-12' - STA. 24+29.01 TO STA. 25+29.01
 △ VARIES 8'-12' - STA. 19+50 TO STA. 20+00 (MATCH EXISTING)
 VARIES 12'-16' - STA. 25+47.94 TO STA. 26+47.94
 16' - STA. 26+47.94 TO STA. 29+09.07 (CURVE WIDENING)
 VARIES 16'-12' - STA. 29+09.07 TO STA. 30+09.07.

△ VARIES FROM 0.016 TO THE OUTSIDE AT STA. 20+40.00 TO 0.04 TO THE OUTSIDE AT STA. 21+00.00.
 0.04 TO THE OUTSIDE FROM STA. 21+00.00 TO STA. 24+29.01.
 VARIES FROM 0.04 TO THE OUTSIDE AT STA. 24+29.01 TO 0.016 TO THE OUTSIDE AT STA. 24+89.01.

△ VARIES FROM 0.016 TO THE OUTSIDE AT STA. 19+60.00 TO 0.016 TO THE INSIDE AT STA. 20+40.00.
 VARIES FROM 0.016 TO THE INSIDE AT STA. 20+40.00 TO 0.04 TO THE INSIDE AT STA. 21+00.00.
 0.04 TO THE INSIDE FROM STA. 21+00.00 TO STA. 24+29.01.
 VARIES FROM 0.04 TO THE INSIDE AT STA. 24+29.01 TO 0.016 TO THE INSIDE AT STA. 24+89.01.
 VARIES FROM 0.016 TO THE INSIDE AT STA. 24+89.01 TO 0.016 TO THE OUTSIDE AT STA. 25+69.01.

△ VARIES FROM 3% MIN TO 4% MAX



SUPERELEVATED SECTION - RELOCATED RIVER ROAD

SECTION APPLIES:
 STA. 19+81.00 TO STA. 25+64.00 = 583.00 FT

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GENERAL

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

- | | |
|--|---|
| <p>GAS:</p> <p>COLUMBIA GAS OF OHIO
ATTN: GRAIG FLYNN
2429 LINDEN AVENUE
ZANESVILLE, OH 43701
740-450-1205</p> <p>MARATHON PIPE LINE LLC
840 HEATH ROAD
HEATH, OH 43056
419-421-3031-OFFICE
740-522-8448-OFFICE
740-522-5321-FAX
DAN WILKIN-740-504-4703
DWAYNE YEAGER-740-504-8169</p> <p>TEXAS EASTERN TRANSMISSOIN CORP.
1895 BIG INCH ROAD
SOMERSET, OH 43783
740-743-1309-PHONE
740-743-1025-FAX</p> <p>TEPPO
TRACI McCLERNON
3691 HIGHWAY 14 NORTH
P.O. BOX 312
WATKINS GLEN, NY 14891
607-535-2783 EXT. 214</p> <p>ELECTRIC:</p> <p>AMERICAN ELECTRIC POWER
ATTN: PATRICO WEYERS / ROBERT IVINSKAS
850 TECK CENTER DRIVE
GAHANNA, OH 43230
614-883-7832-PHONE
614-883-6868-FAX</p> <p>LICKING RURAL ELECTRIFICATION, INC
ATTN: JOHN STRATHMAN
11339 MT. VERNON ROAD
P.O. BOX 455
UTICA, OH 43080-0455
1-800-255-6815, EXT. 1149-PHONE
740-892-2189-FAX</p> <p>THE ENERGY COOPERATIVE
ATTN: GREG WILSON
1500 GRANVILLE ROAD
P.O. BOX 4970
NEWARK, OH 43058
740-348-1254-CELL</p> | <p>CATV:</p> <p>TIME WARNER CABLE
ATTN: TERRY ALLEN
1266 DUBLIN ROAD
COLUMBUS, OH 43215
614-255-6349-CELL
TERRY.ALLEN@TECOLUMBUS.COM</p> <p>WINDSTREAM COMMUNICATIONS
ATTN: DALE MYERS
66 NORTH FOURTH STREET
P.O. BOX 3005
NEWARK, OH 43058-3005
740-349-8896-PHONE
740-349-8804-FAX
740-328-7796-CELL
DALE.L.MYERS@WINDSTREAM.COM</p> <p>MCI NETWORK SERVICES, INC
ATTN: JERRY FERRINGER
OSP NATIONAL SUPPORT / INVESTIGATIONS
DEPT. 42864 LOC 107
2400 NORTH GLENVILLE
RICHARDSON, TEXAS 75082
440-457-4026-CELL</p> <p>VILLAGE OF HEBRON
HEBRON, OH 43025
740-928-2261-OFFICE
740-928-5104-FAX</p> <p>CITY OF HEATH
1287 HEBRON ROAD
HEATH, OH 43056
740-522-1420-OFFICE</p> |
|--|---|

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.

IF THERE IS UNSUITABLE MATERIAL IN A SHALLOW FILL LOCATION, THEN REMOVE AND REPLACE THE UNSUITABLE MATERIAL ACCORDING TO STEP 2 PRIOR TO CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
2. REMOVE AND REPLACE THE UNSUITABLE MATERIALS (E.G., A-4B, A-2-5, A-5, A-7-5, COAL, SHALE, ROCK). THESE MATERIALS ARE TO BE REMOVED PRIOR TO PROOF ROLLING. THE LIMITS ARE SHOWN ON THE CROSS SECTIONS AS UNSUITABLE SOILS. THE QUANTITIES FOR THE UNSUITABLE SOILS ARE PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.
3. CONSTRUCT AND COMPACT THE SUBGRADE ACCORDING TO 204.03.
4. PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06 TO DETERMINE THE ACTUAL LIMITS OF THE SOFT SOILS AND TO VERIFY THE UNIFORMITY OF THE SUBGRADE COMPACTION. THE APPROXIMATE LIMITS OF THE SOFT SOILS ARE SHOWN ON THE CROSS SECTIONS AS SOFT SOILS.
5. THE ENGINEER WILL IDENTIFY THE ACTUAL LOCATIONS OF THESE SOFT SOILS BASED ON THE PROOF ROLLING RESULTS. AFTER THE SOFT SOIL AREAS HAVE BEEN DETERMINED, THE ENGINEER WILL ADJUST THE PLAN WIDTH AND DEPTH BY UTILIZING TEST PITS ACCORDING TO THE CONSTRUCTION INSPECTION MANUAL. THE QUANTITIES FOR THE SOFT SOILS ARE PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.
6. UNDERCUT THE AREAS DETERMINED BY THE ENGINEER AND REPLACE WITH SPECIFIED MATERIALS ACCORDING TO 207.07. THE UNDERCUTS WILL EXTEND TO 18" BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
7. PROOF ROLL THE UNDERCUT AREAS ACCORDING 204.06 TO VERIFY THE UNDERCUT STABILITY.
8. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

SPECIAL BENCHING

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR THE PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISION OF 203.05.

ENVIRONMENTAL

ENVIRONMENTAL COMMITMENT NOTES

TO BE DETERMINED

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CALCULATED
CEL
CHECKED
JEL

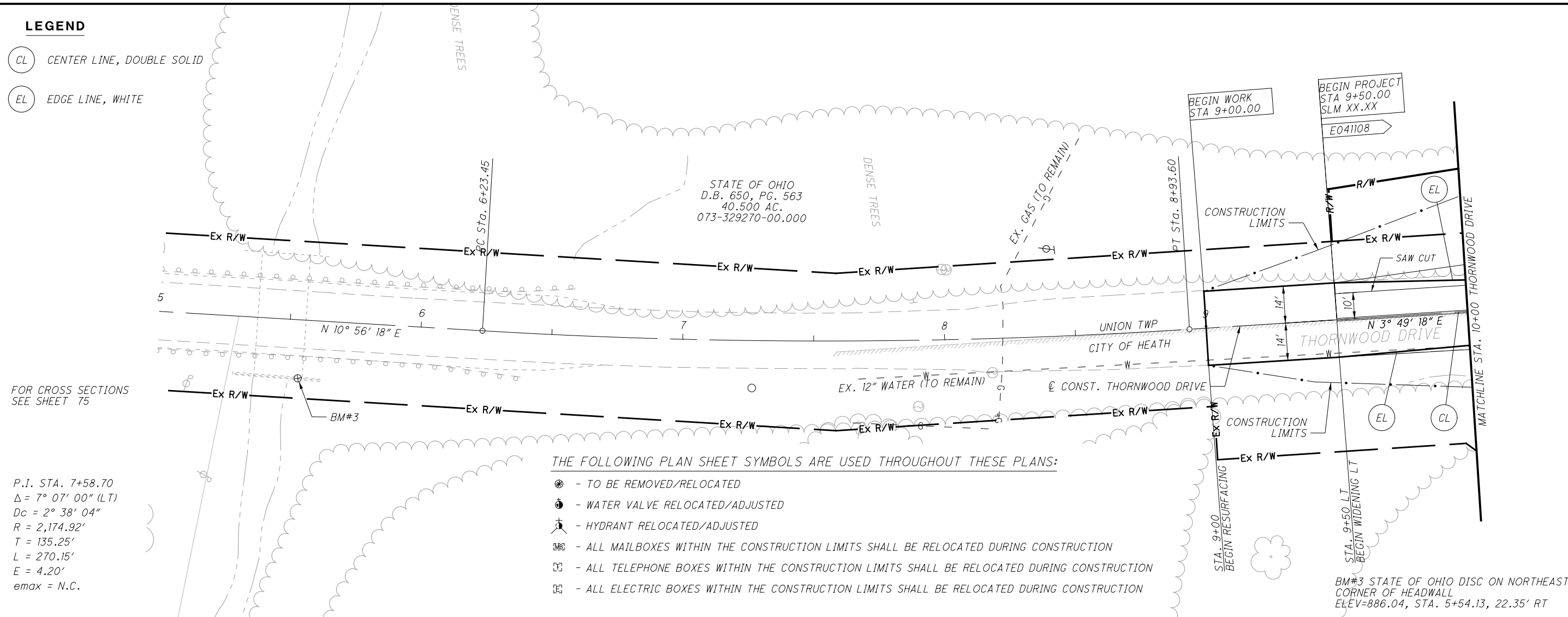
GENERAL NOTES

LIC-THORNWOOD

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE

CALCULATED MMB CHECKED JEL



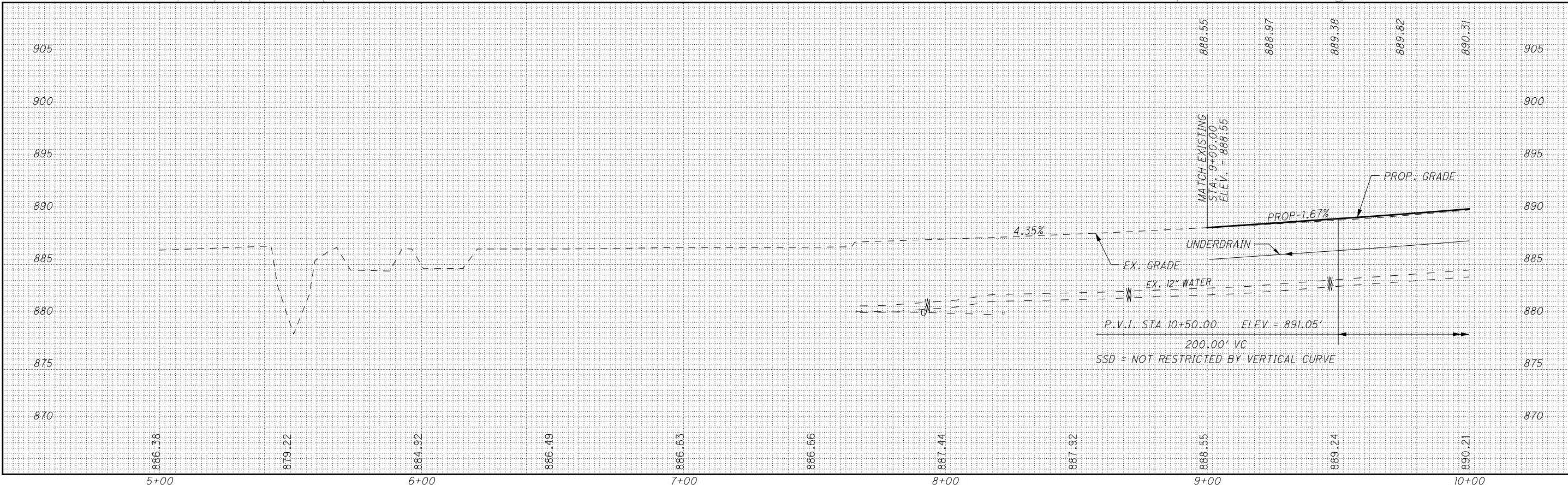
FOR CROSS SECTIONS SEE SHEET 75

P.I. STA. 7+58.70
 $\Delta = 7^\circ 07' 00''$ (LT)
 $Dc = 2^\circ 38' 04''$
 $R = 2,174.92'$
 $T = 135.25'$
 $L = 270.15'$
 $E = 4.20'$
 $emax = N.C.$

THE FOLLOWING PLAN SHEET SYMBOLS ARE USED THROUGHOUT THESE PLANS:

- TO BE REMOVED/RELOCATED
- WATER VALVE RELOCATED/ADJUSTED
- HYDRANT RELOCATED/ADJUSTED
- ALL MAILBOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE RELOCATED DURING CONSTRUCTION
- ALL TELEPHONE BOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE RELOCATED DURING CONSTRUCTION
- ALL ELECTRIC BOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE RELOCATED DURING CONSTRUCTION

BM#3 STATE OF OHIO DISC ON NORTHEAST CORNER OF HEADWALL
 ELEV=886.04, STA. 5+54.13, 22.35' RT



PLAN AND PROFILE - THORNWOOD STA. 5+00 TO STA. 10+00

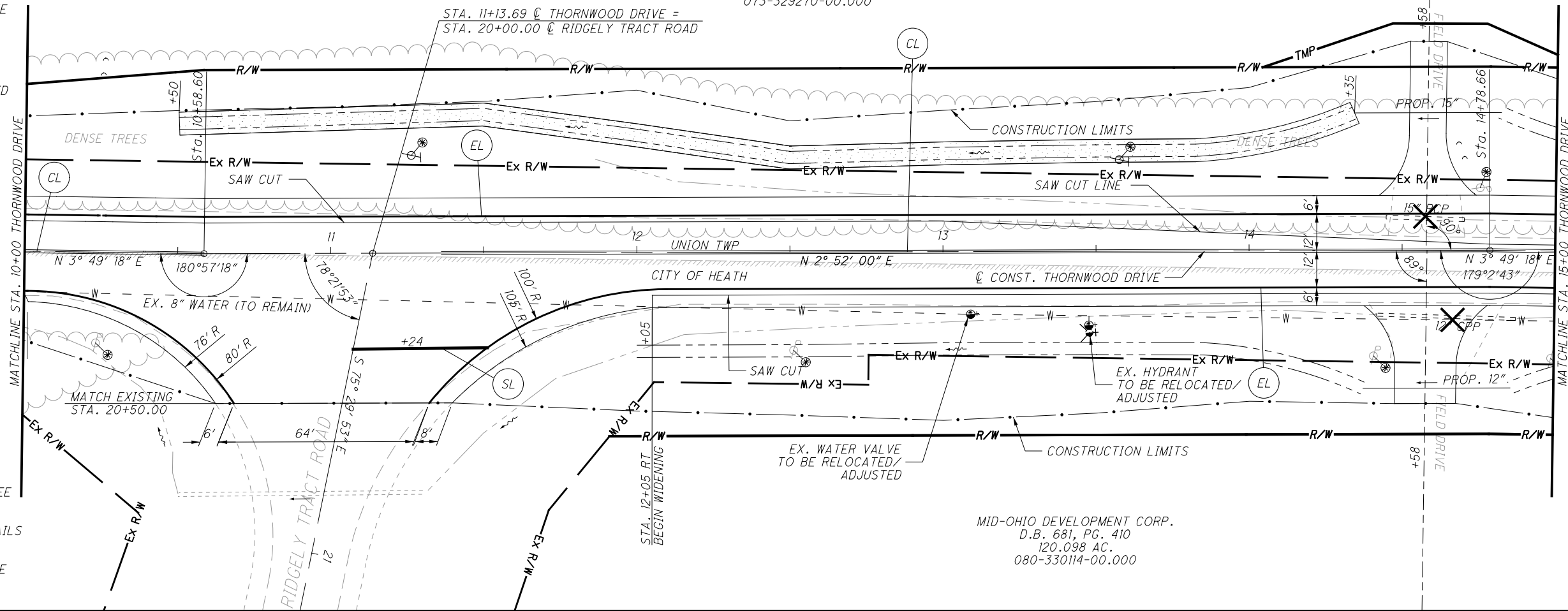
LIC-THORNWOOD

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LEGEND

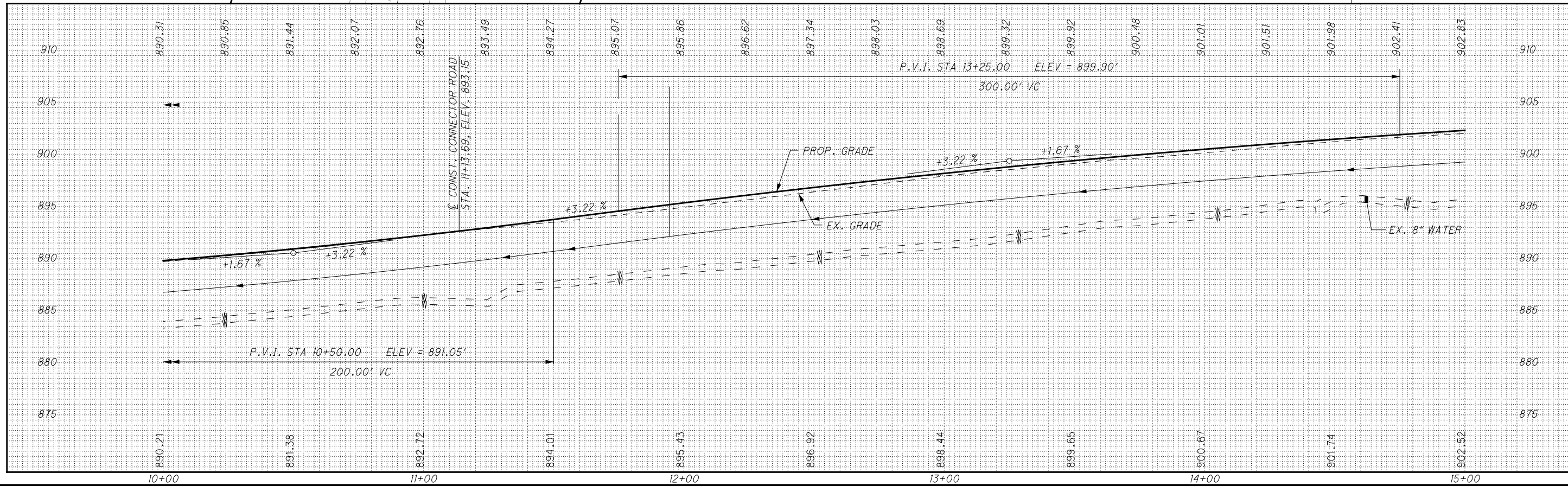
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE
- TBR TO BE RELOCATED BY OTHERS
- 7.5' WIDE DITCH EROSION PROTECTION
- X TO BE REMOVED

STATE OF OHIO
D.B. 650, PG. 563
40.500 AC.
073-329270-00.000



FOR CROSS SECTIONS SEE SHEETS 75 TO 79
FOR INTERSECTION DETAILS SEE SHEET 262
FOR DRIVE PROFILES SEE SHEETS 78 TO 79

MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000



PLAN AND PROFILE - THORNWOOD
STA. 10+00 TO STA. 15+00

LIC-THORNWOOD



CALCULATED MMB CHECKED JEL

PLAN AND PROFILE - THORNWOOD STA. 15+00 TO STA. 20+00

LIC-THORNWOOD

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1

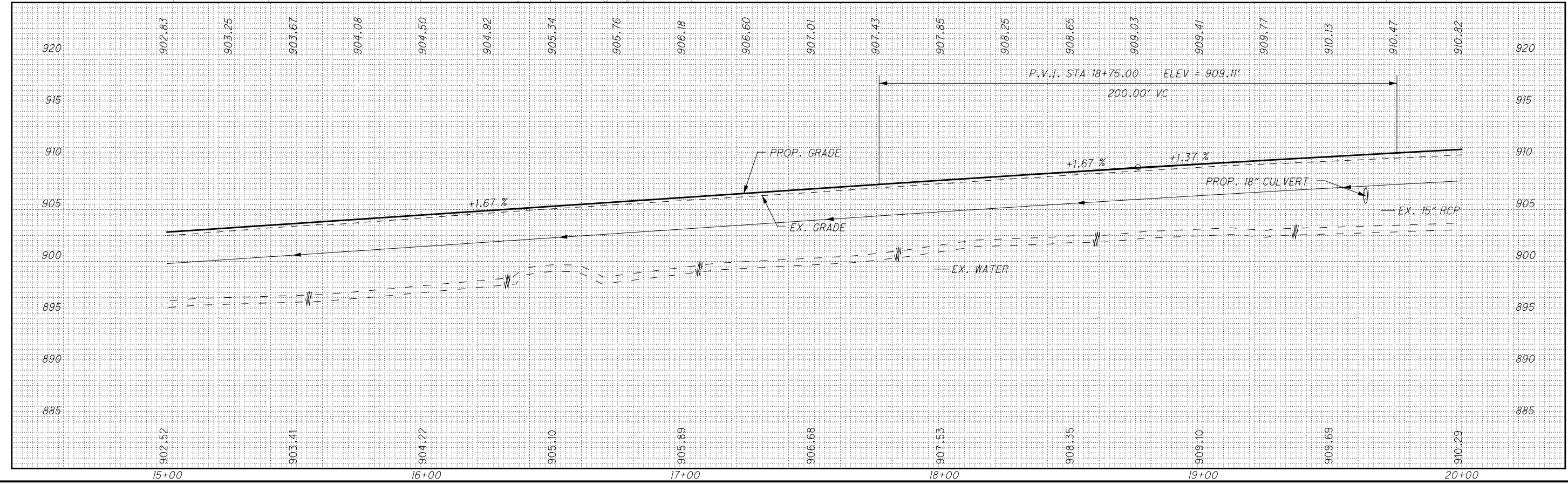
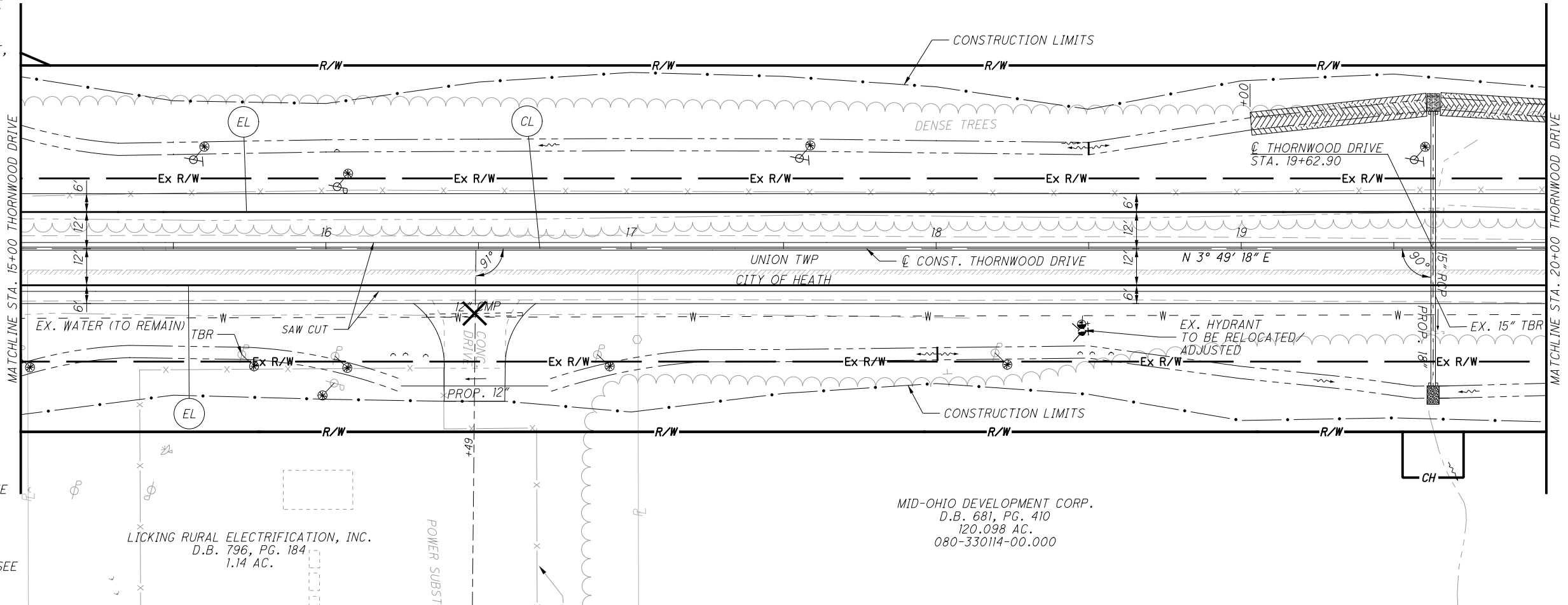
X TO BE REMOVED

STATE OF OHIO
D.B. 650, PG. 563
40.500 AC.
073-329270-00.000

MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000

LICKING RURAL ELECTRIFICATION, INC.
D.B. 796, PG. 184
1.14 AC.

FOR CROSS SECTIONS SEE SHEETS 79 TO 83
FOR DRIVE DETAILS SEE SHEET 80
FOR DRAINAGE DETAILS SEE SHEET 274



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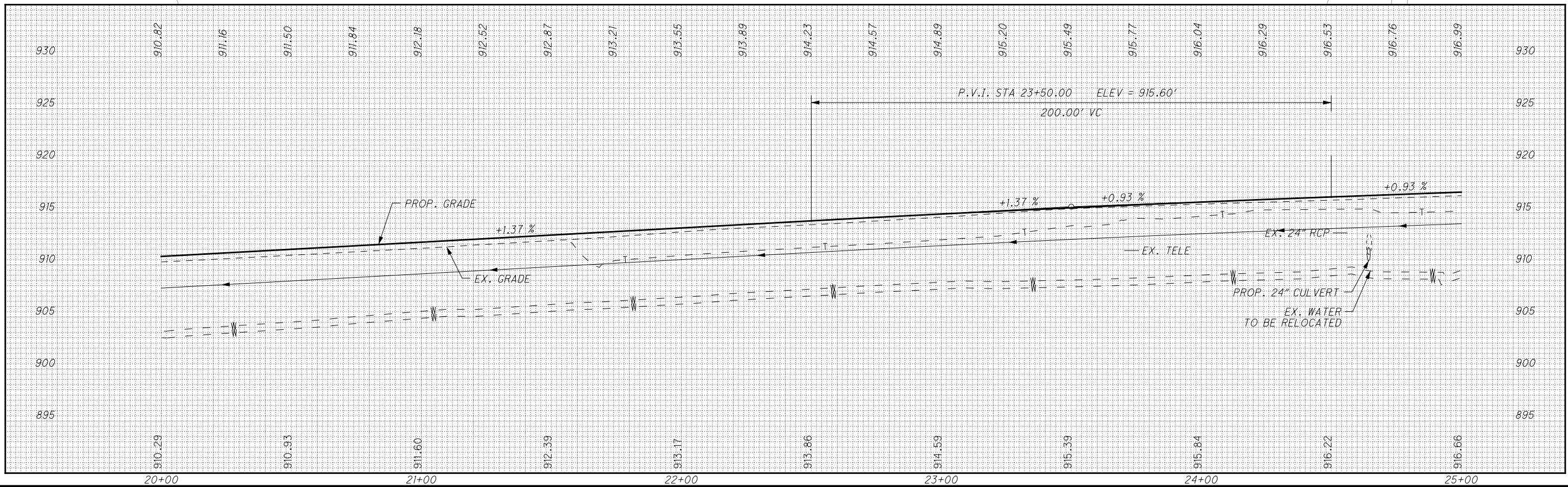
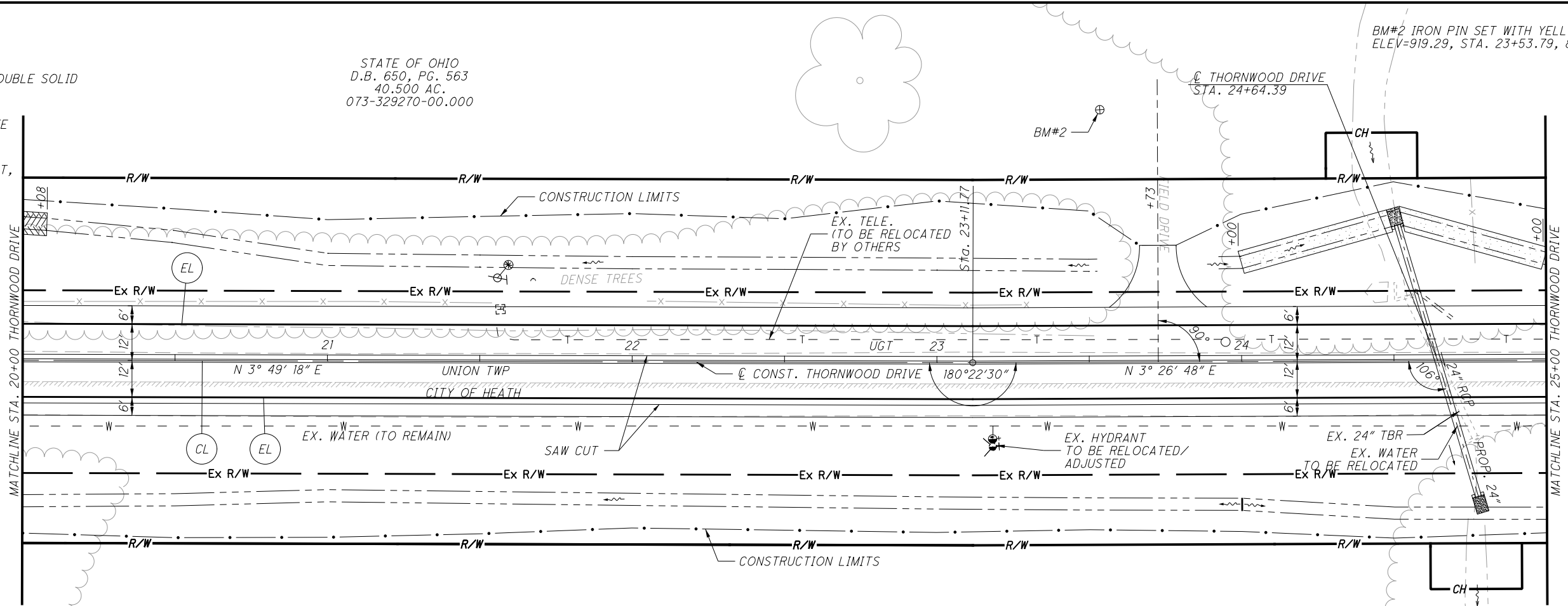
LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1
- 7.5' WIDE DITCH EROSION PROTECTION

STATE OF OHIO
D.B. 650, PG. 563
40.500 AC.
073-329270-00.000

MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000

FOR CROSS SECTIONS SEE SHEETS 83 TO 86
FOR DRAINAGE DETAILS SEE SHEET 275







CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 20+00 TO STA. 25+00**

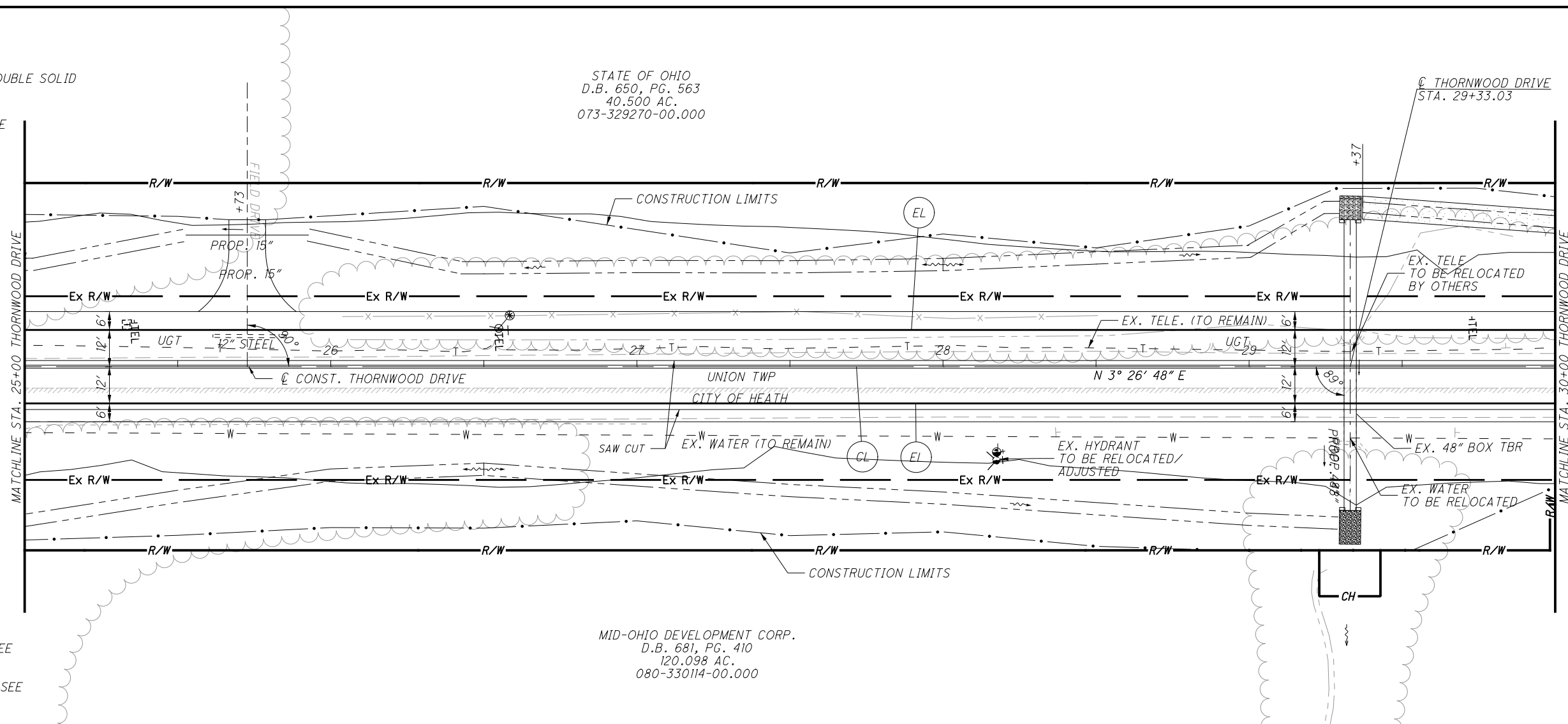
LIC-THORNWOOD

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LEGEND

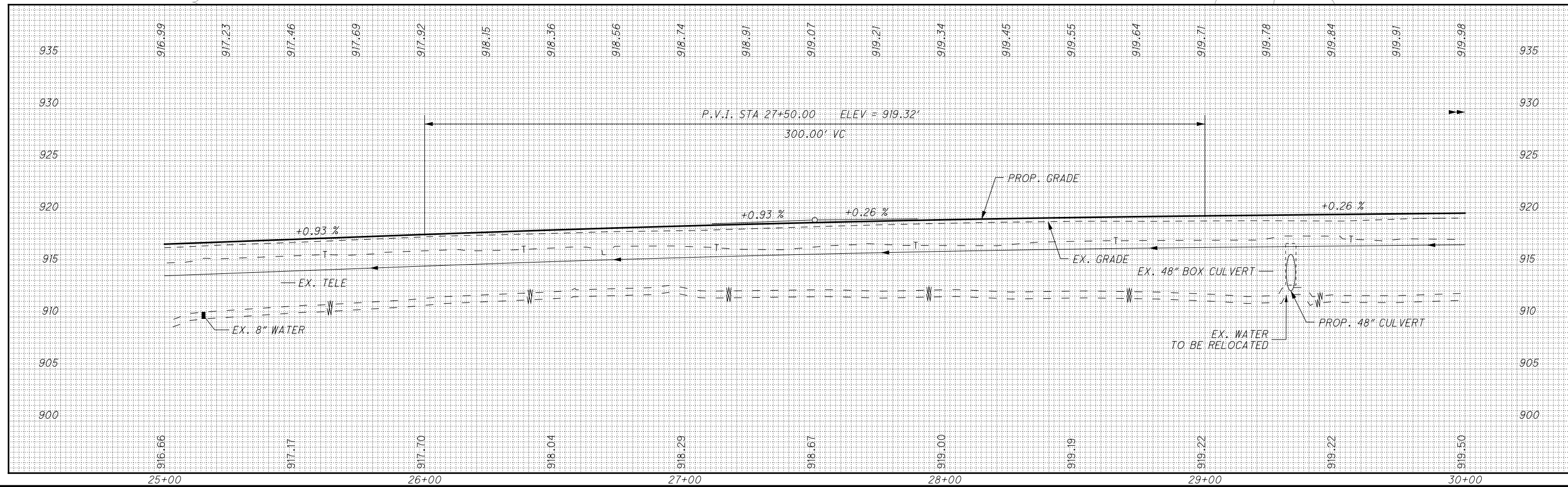
-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE DITCH EROSION PROTECTION
-  TO BE REMOVED

STATE OF OHIO
D.B. 650, PG. 563
40.500 AC.
073-329270-00.000



FOR CROSS SECTIONS SEE SHEETS 86 TO 89
FOR DRAINAGE DETAILS SEE SHEET 276

MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000



CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 25+00 TO STA. 30+00**

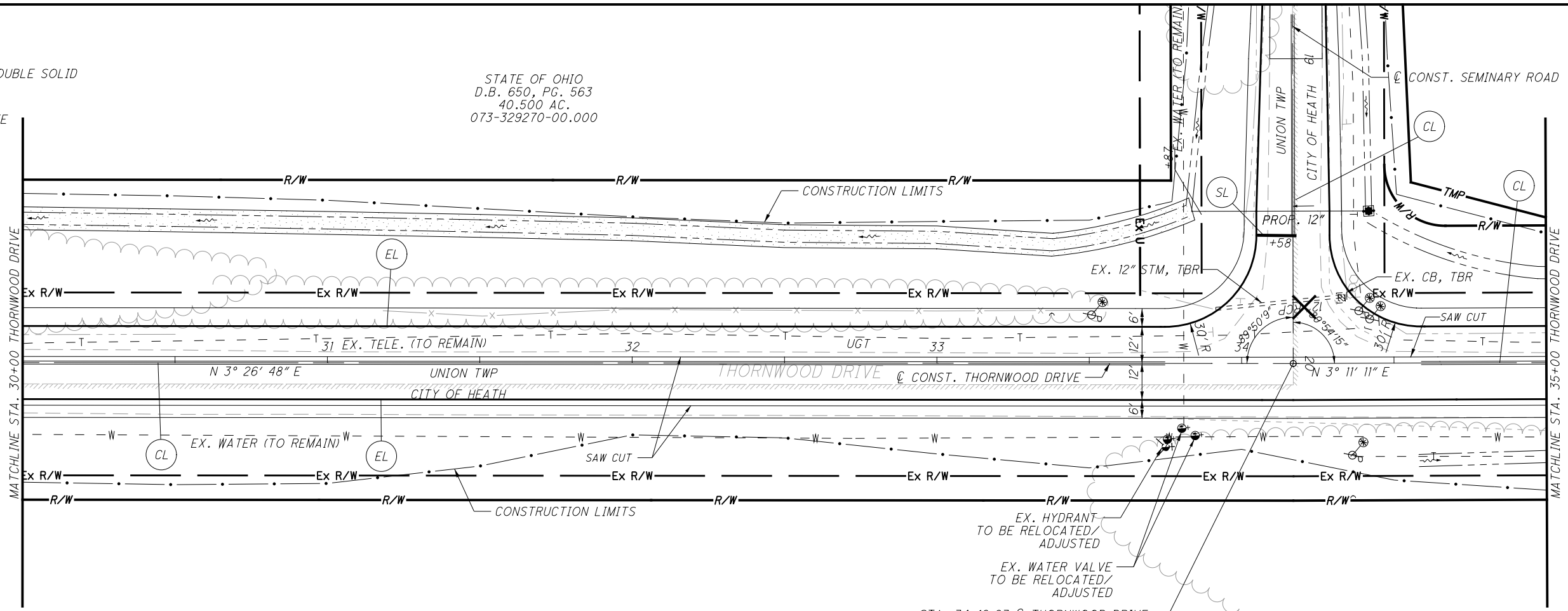
LIC-THORNWOOD

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LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE
- 7.5' WIDE DITCH EROSION PROTECTION
- X TO BE REMOVED

STATE OF OHIO
D.B. 650, PG. 563
40.500 AC.
073-329270-00.000



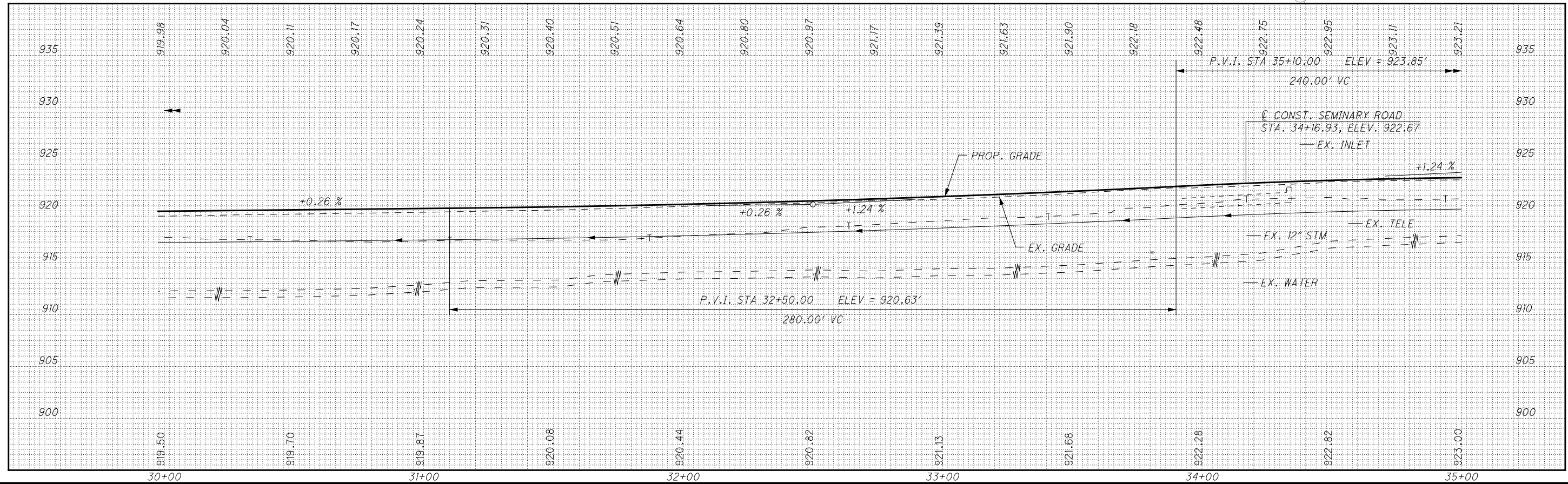
FOR SEMINARY ROAD
DETAILS SEE SHEET 70

FOR CROSS SECTIONS SEE
SHEETS 89 TO 92

FOR INTERSECTION DETAILS
SEE SHEET 262

MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000

STA. 34+16.93 @ THORNWOOD DRIVE =
STA. 20+00.00 @ SEMINARY ROAD







 HORIZONTAL SCALE IN FEET

**PLAN AND PROFILE - THORNWOOD
STA. 30+00 TO STA. 35+00**

LIC-THORNWOOD

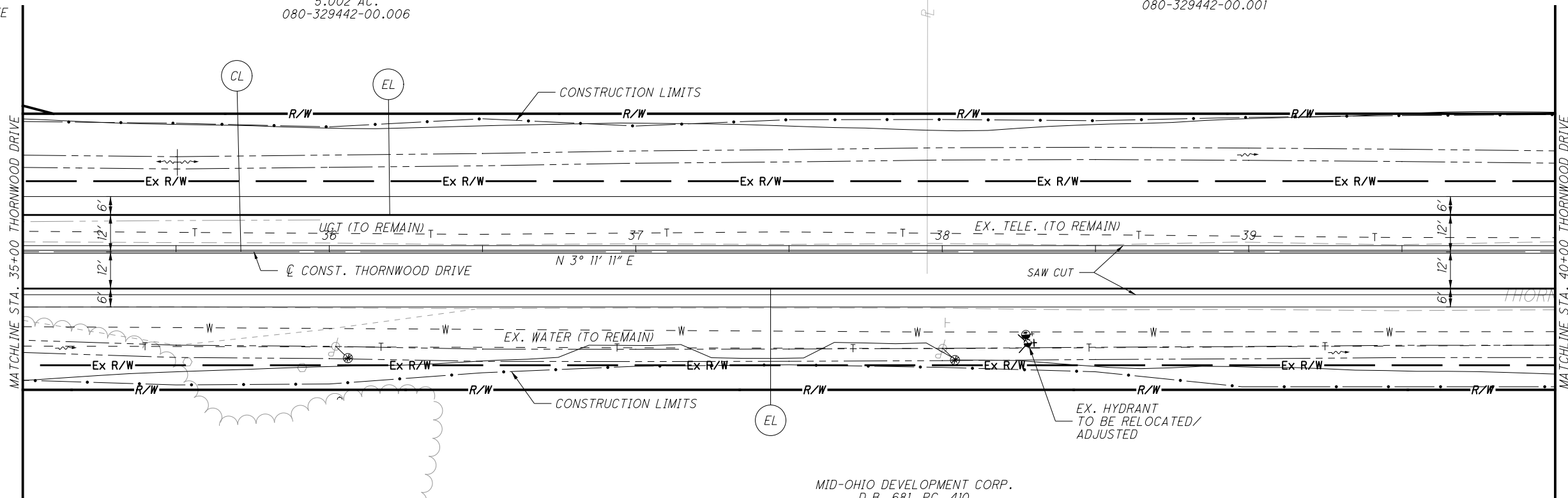
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LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE

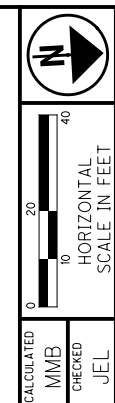
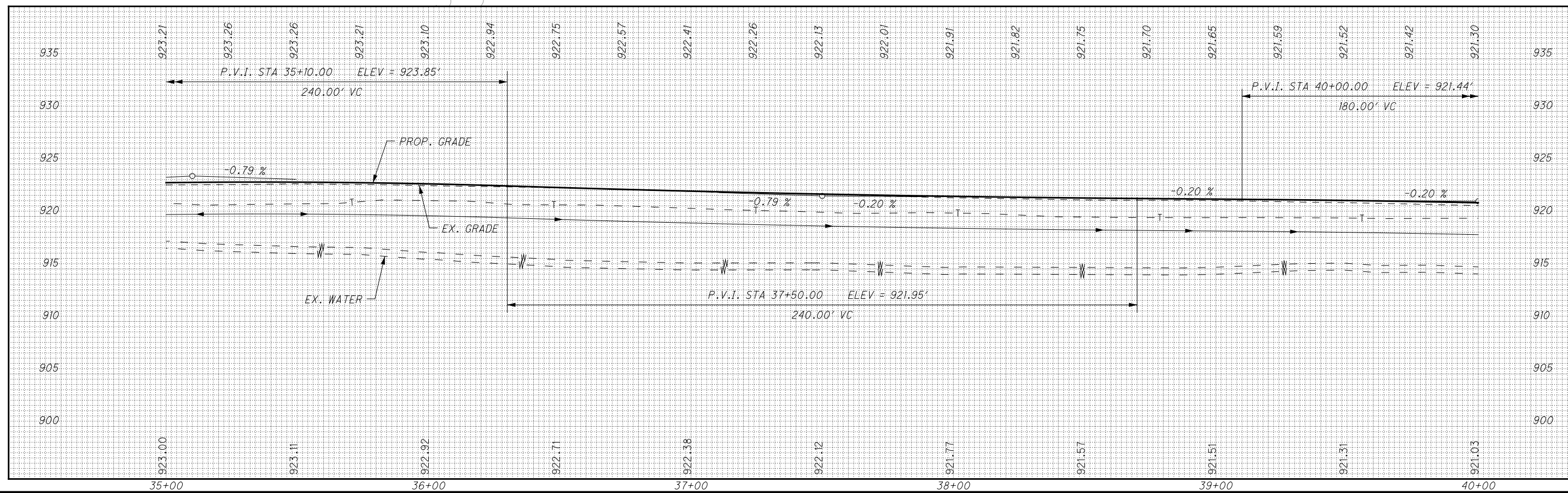
DAVID H. SELLERS
200101160001520
5.002 AC.
080-329442-00.006

DAVID H. SELLERS
O.R. 874, PG. 385
79.790 AC.
080-329442-00.001



MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000




FOR CROSS SECTIONS SEE
SHEETS 92 TO 96



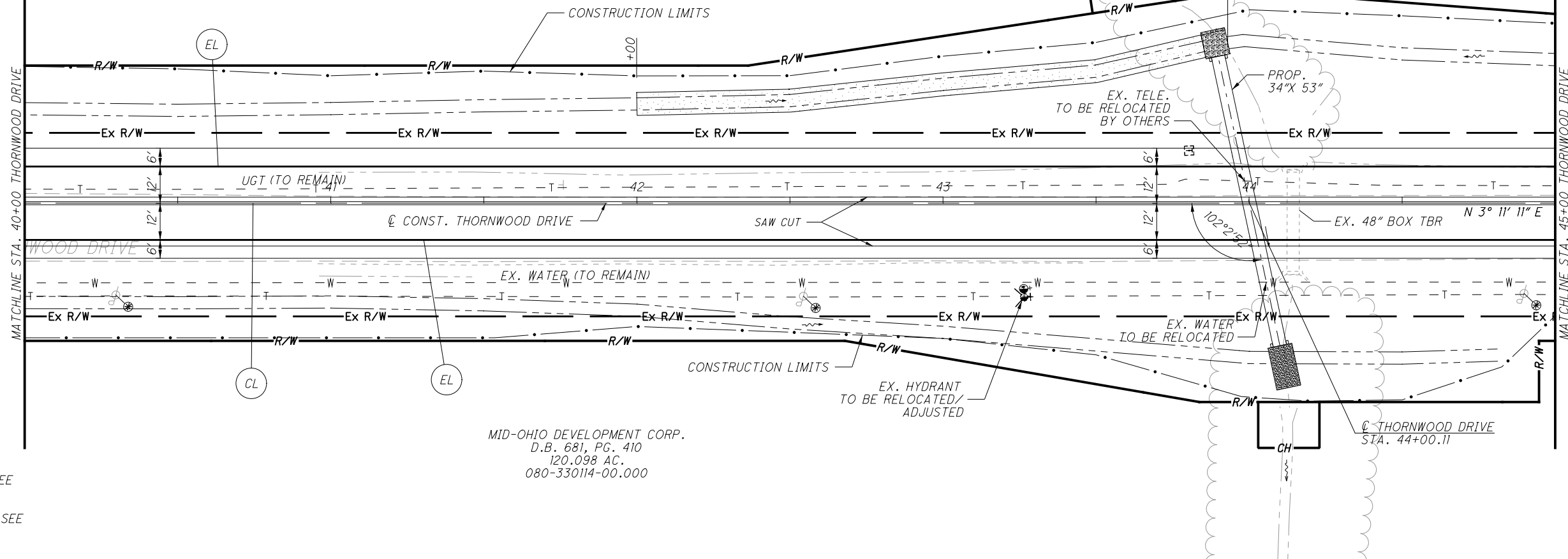
CALCULATED MMB CHECKED JEL
PLAN AND PROFILE - THORNWOOD
STA. 35+00 TO STA. 40+00

LIC-THORNWOOD
 25
 288

LEGEND

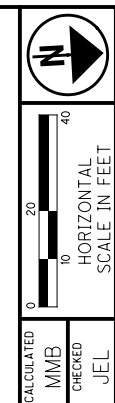
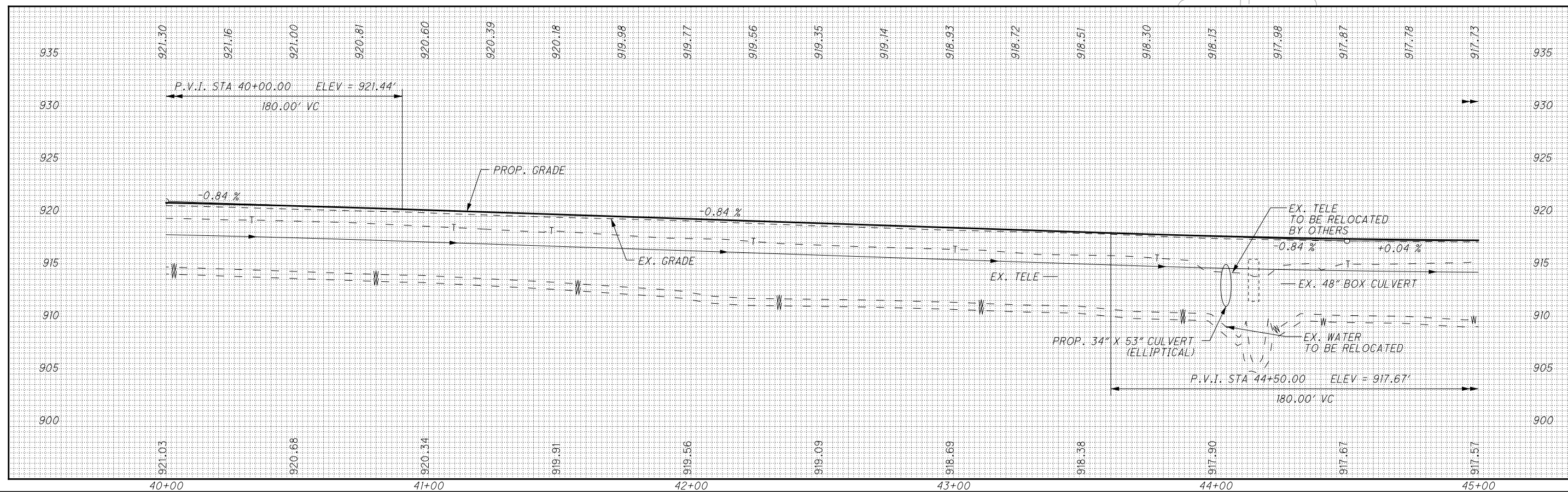
-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE DITCH EROSION PROTECTION

DAVID H. SELLERS
O.R. 874, PG. 385
79.790 AC.
080-329442-00.001



MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000

FOR CROSS SECTIONS SEE SHEETS 96 TO 99
FOR DRAINAGE DETAILS SEE SHEET 277



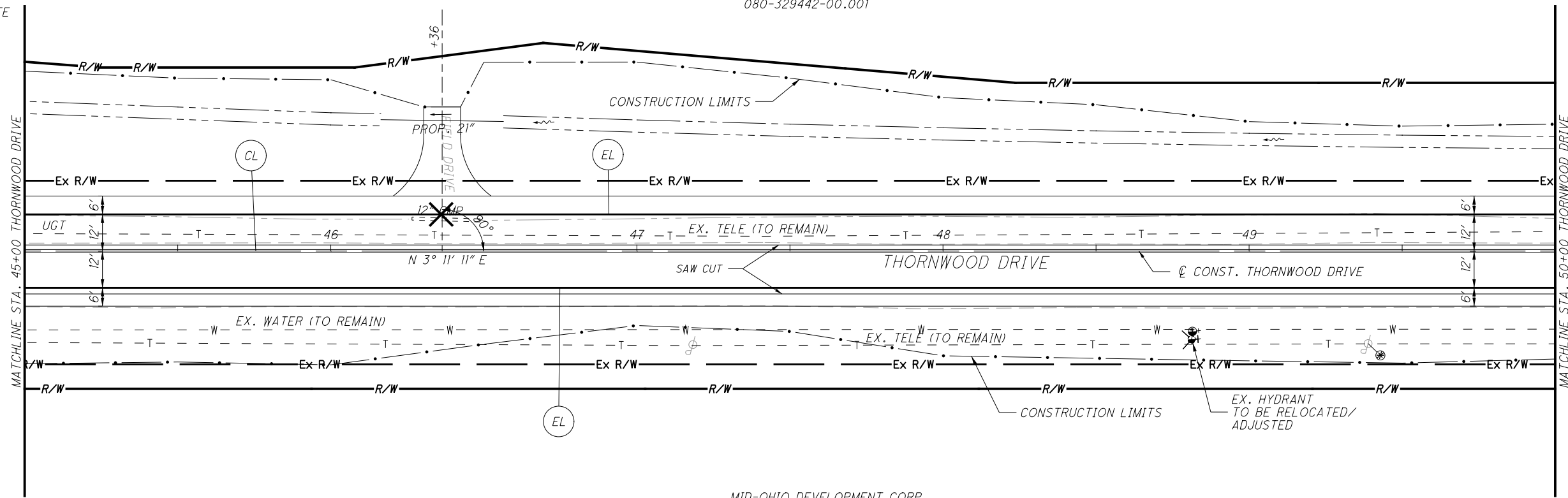
**PLAN AND PROFILE - THORNWOOD
STA. 40+00 TO STA. 45+00**

LIC-THORNWOOD

LEGEND

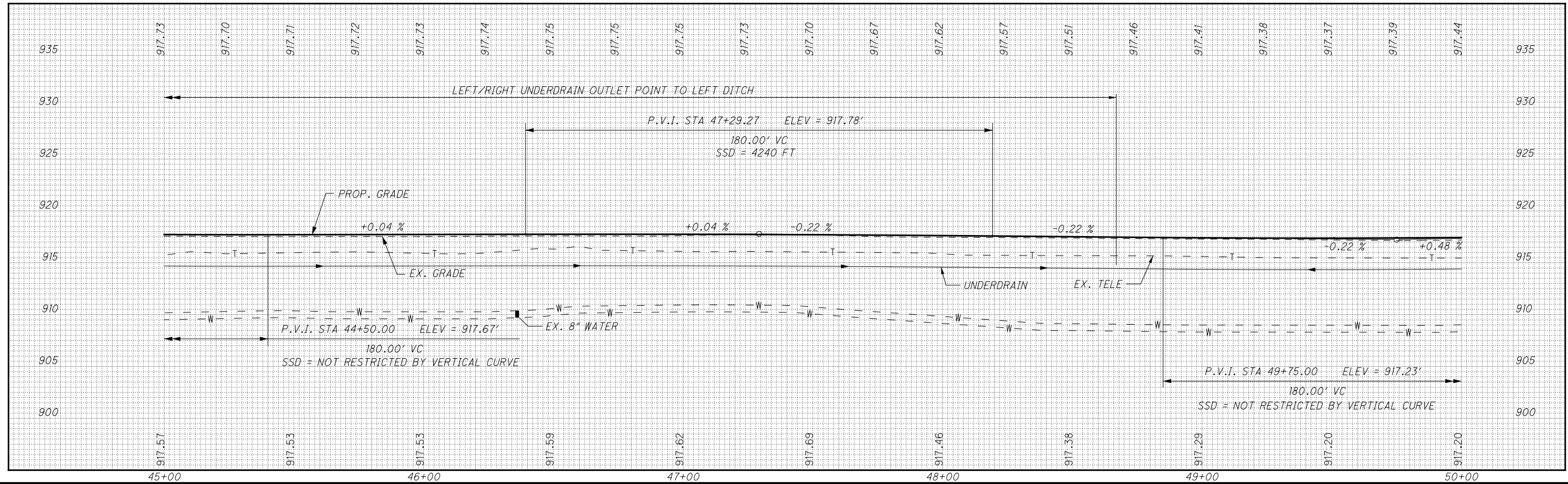
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE

DAVID H. SELLERS
O.R. 874, PG. 385
79.790 AC.
080-329442-00.001



MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000

FOR CROSS SECTIONS SEE SHEETS 99 TO 102



CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 45+00 TO STA. 50+00**

LIC-THORNWOOD

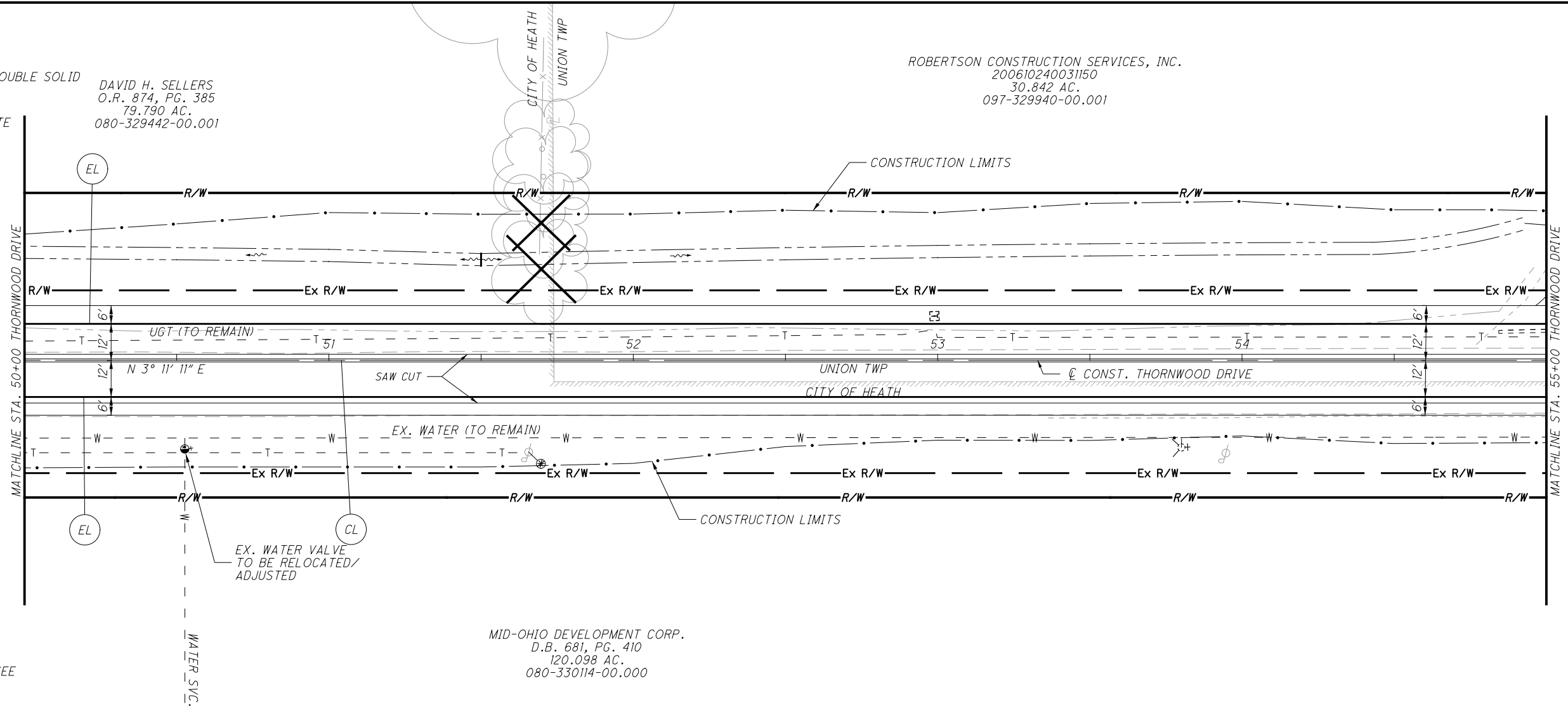
I:\PWP\dms08268\78116GPO10.dgn 27-JUL-2010 4:45PM rgreenland

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- X TO BE REMOVED

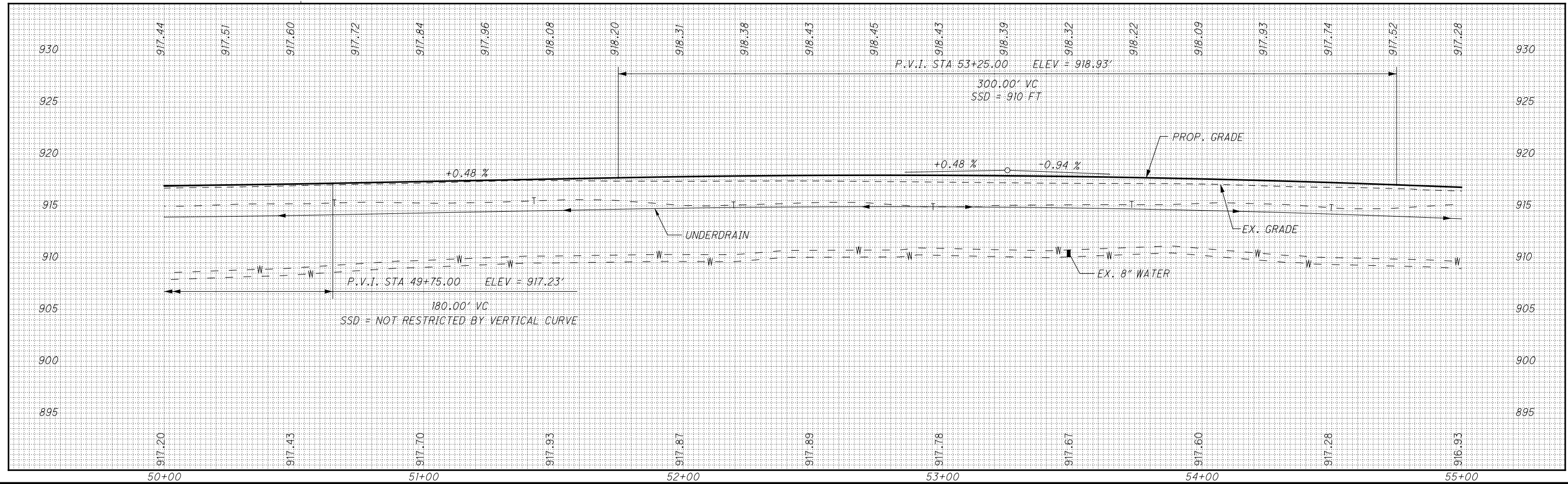
DAVID H. SELLERS
O.R. 874, PG. 385
79.790 AC.
080-329442-00.001

ROBERTSON CONSTRUCTION SERVICES, INC.
200610240031150
30.842 AC.
097-329940-00.001



FOR CROSS SECTIONS SEE SHEETS 102 TO 106

MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000



CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 50+00 TO STA. 55+00**

LIC-THORNWOOD

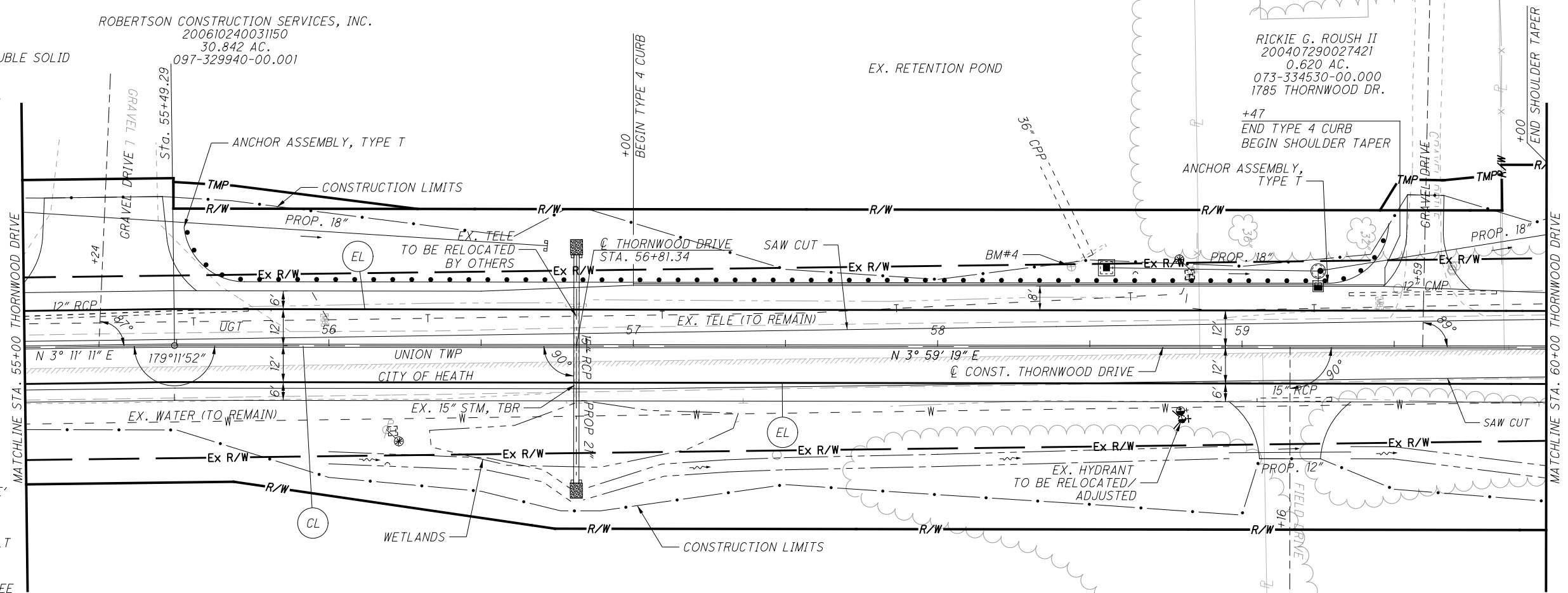
28
288

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- X TO BE REMOVED

ROBERTSON CONSTRUCTION SERVICES, INC.
200610240031150
30.842 AC.
097-329940-00.001

RICKIE G. ROUSH II
200407290027421
0.620 AC.
073-334530-00.000
1785 THORNWOOD DR.



BM#4 CHISELED 'SQUARE'
ON SOUTHWEST CORNER
OF HEADWALL
ELEV=915.73,
STA. 58+43.91, 26.32' LT

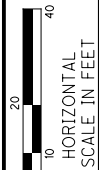
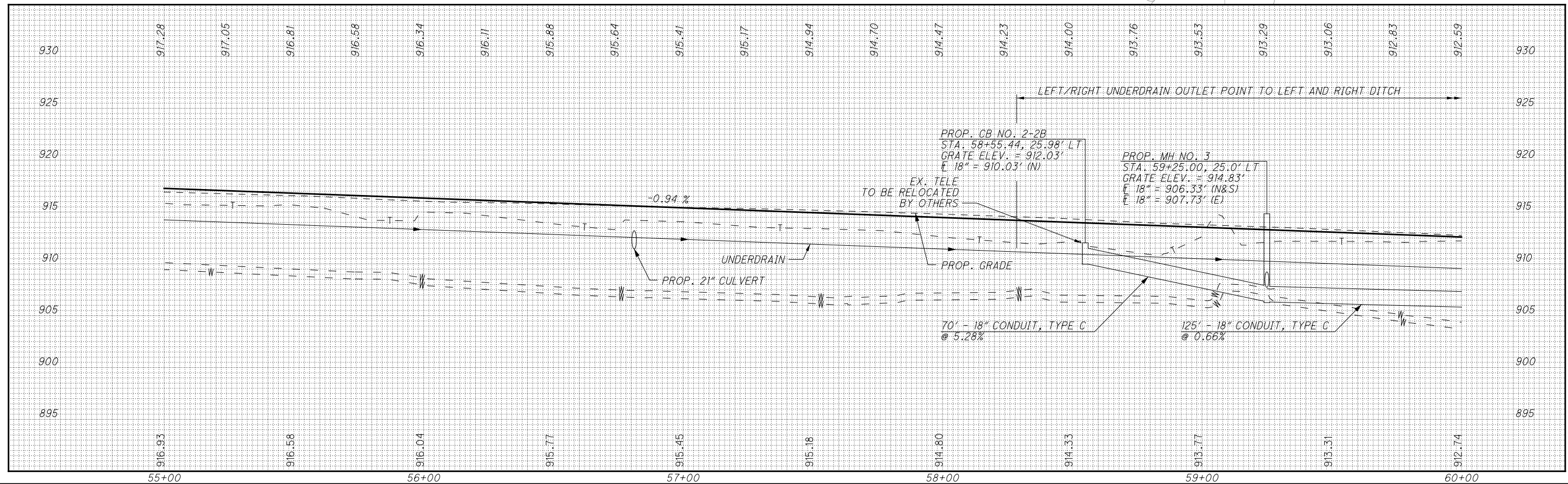
FOR CROSS SECTIONS SEE
SHEETS 106 TO 109

FOR DRIVE DETAILS SEE
SHEETS 106 AND 109

FOR DRAINAGE DETAILS SEE
SHEET 278

MID-OHIO DEVELOPMENT CORP.
D.B. 681, PG. 410
120.098 AC.
080-330114-00.000

HEATH-NEWARK-LICKING
COUNTY PORT AUTHORITY
200201310004283
233.35 AC.
030-089136-00.001



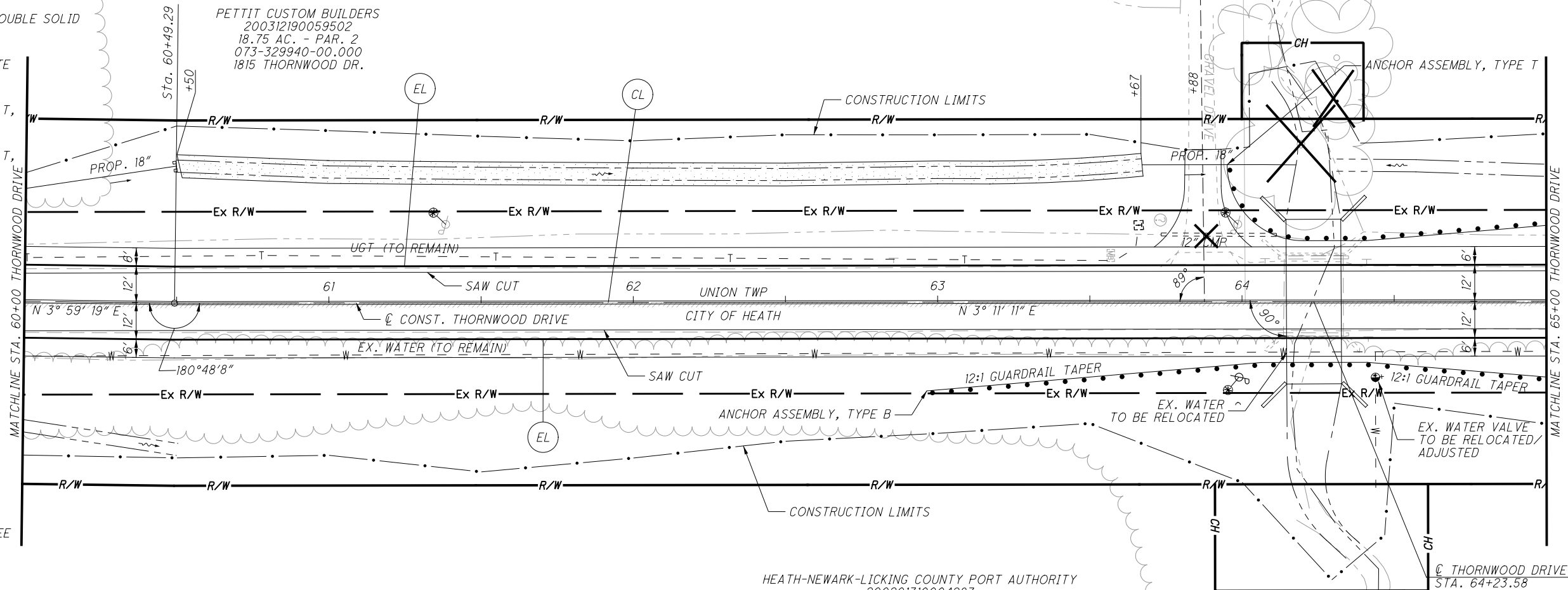
CALCULATED
MMB
CHECKED
JEL

**PLAN AND PROFILE - THORNWOOD
STA. 55+00 TO STA. 60+00**

LIC-THORNWOOD

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1
- 7.5' WIDE TURF REINFORCING MAT, TYPE 2
- 7.5' WIDE DITCH EROSION PROTECTION
- X TO BE REMOVED



FOR CROSS SECTIONS SEE SHEETS 109 TO 112

FOR DRIVE PROFILES SEE SHEET 111

FOR DRAINAGE DETAILS SEE SHEETS 279 00D001-02







N
 0 10 20 40
 HORIZONTAL SCALE IN FEET
 CALCULATED MMB
 CHECKED JEL

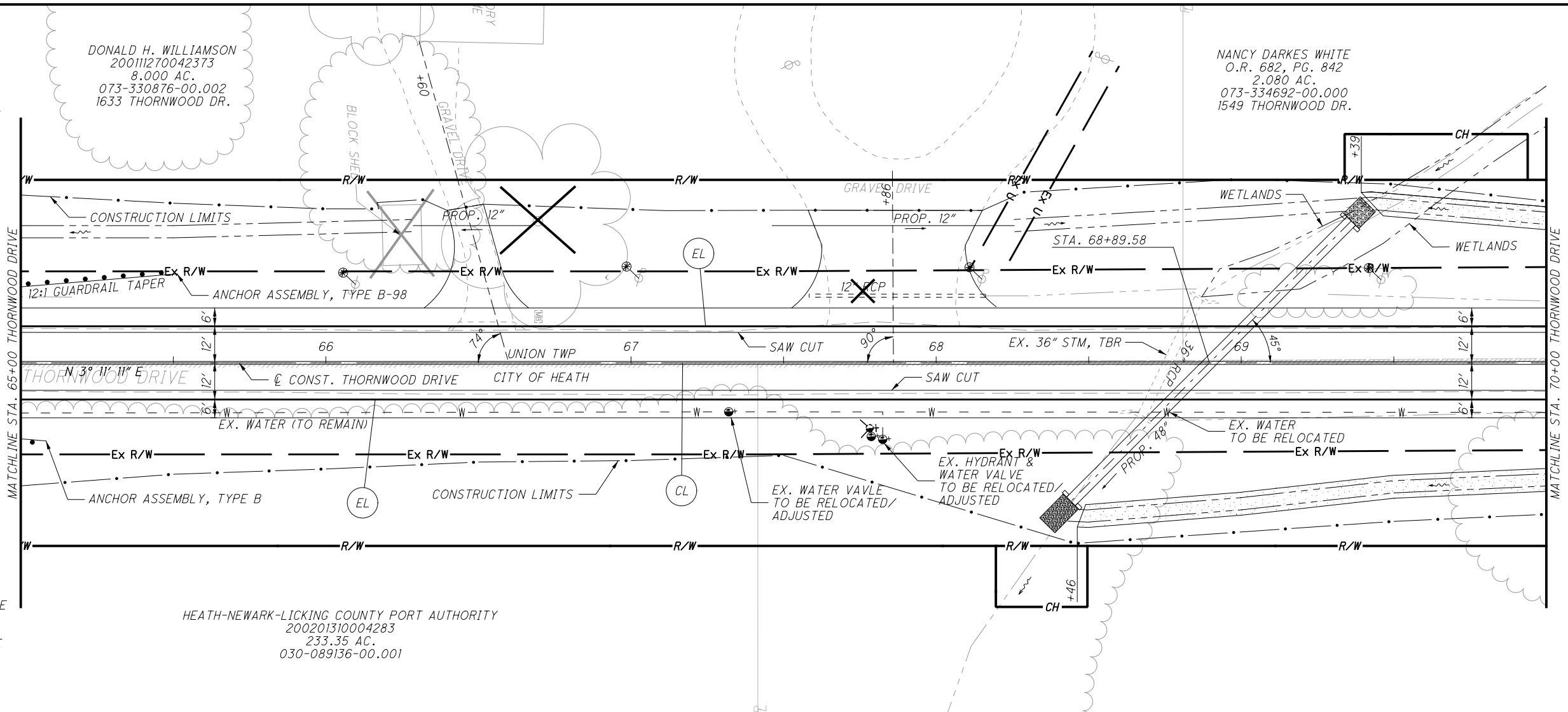
PLAN AND PROFILE - THORNWOOD
STA. 60+00 TO STA. 65+00

LIC-THORNWOOD
 30
 288

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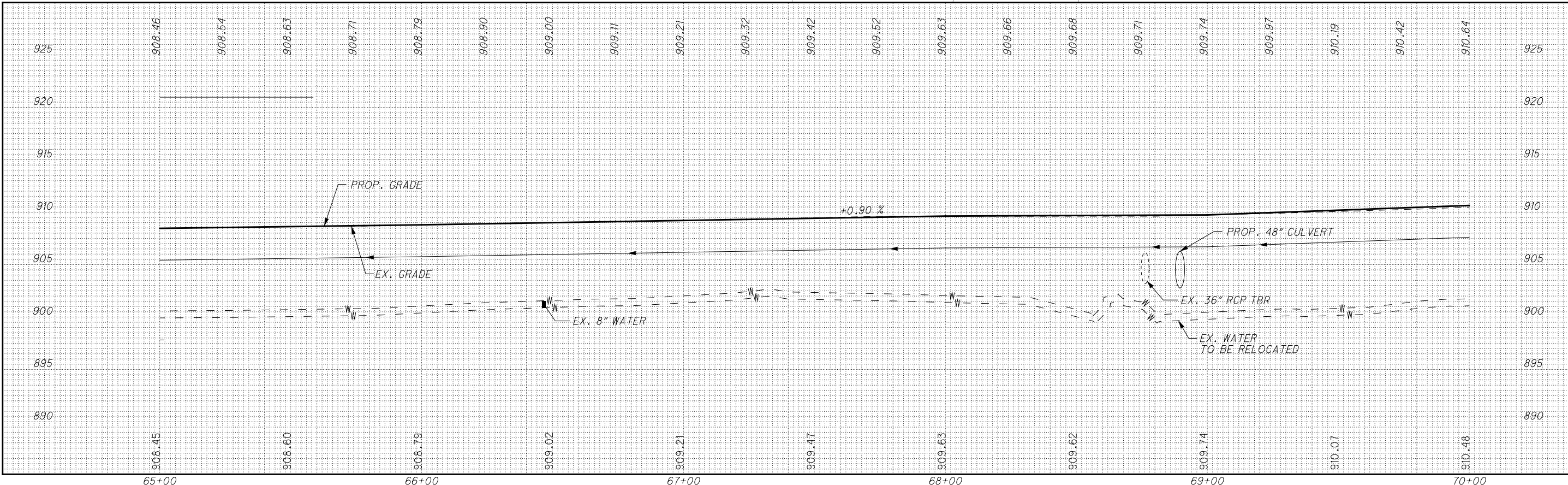
LEGEND

-  CL CENTER LINE, DOUBLE SOLID
-  EL EDGE LINE, WHITE
-  7.5' WIDE DITCH EROSION PROTECTION
-  TO BE REMOVED



FOR CROSS SECTIONS SEE SHEETS 112 TO 116
 FOR DRIVE PROFILES SEE SHEETS 114 TO 115
 FOR DRAINAGE DETAILS SEE SHEET 282

HEATH-NEWARK-LICKING COUNTY PORT AUTHORITY
 200201310004283
 233.35 AC.
 030-089136-00.001







CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
 STA. 65+00 TO STA. 70+00**

LIC-THORNWOOD

LEGEND

-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE DITCH EROSION PROTECTION

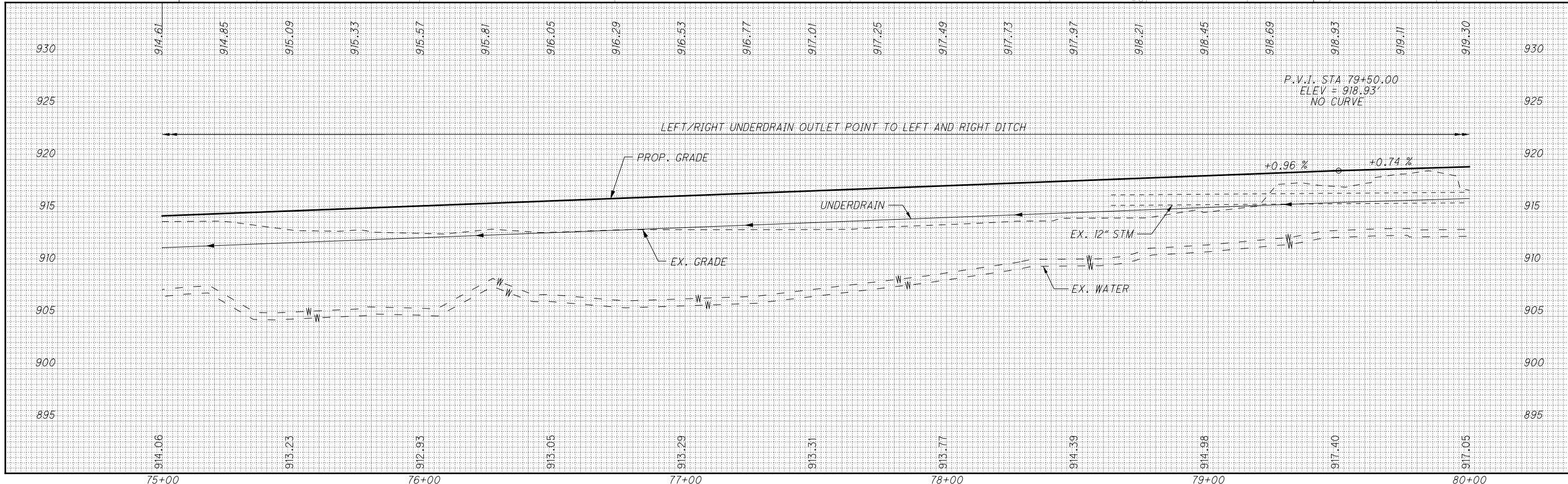
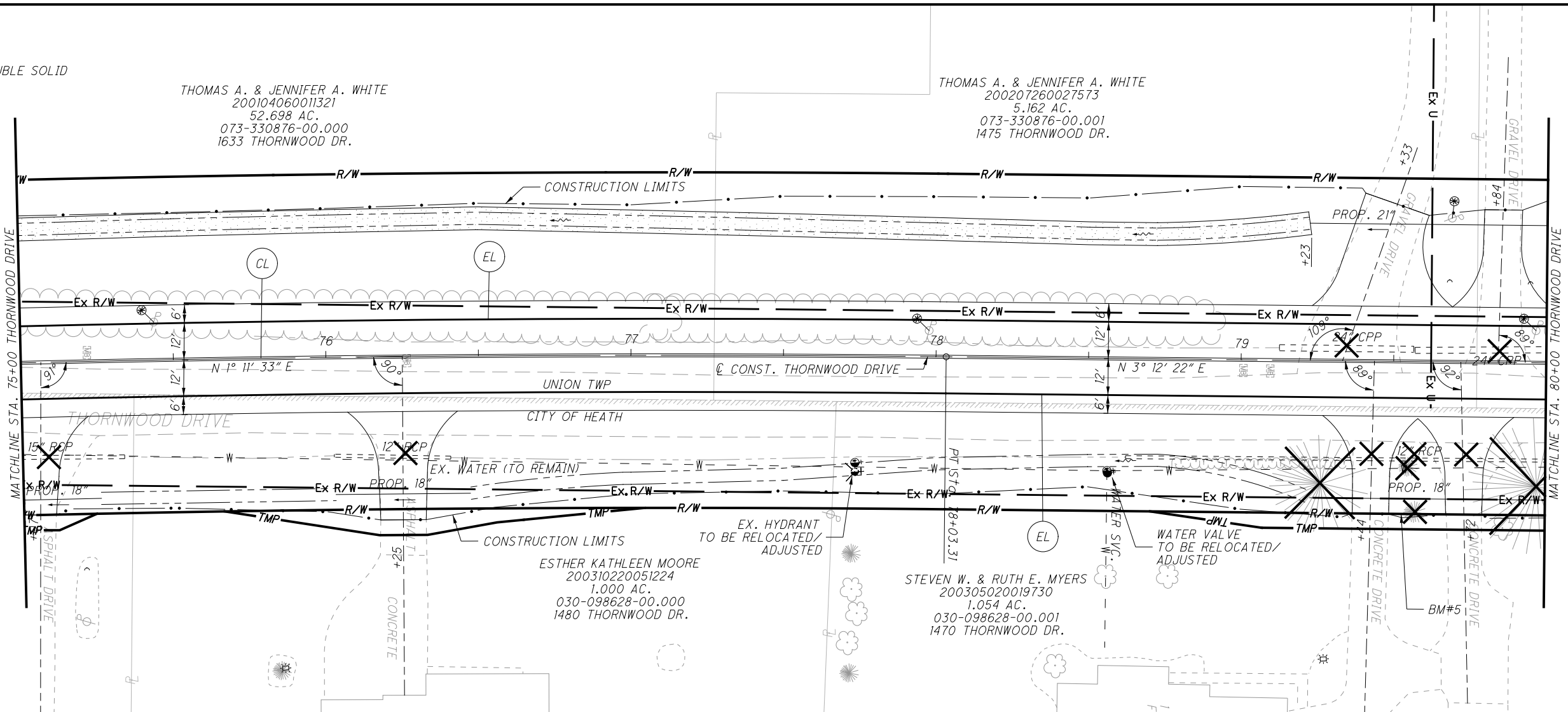
 TO BE REMOVED

FOR CROSS SECTIONS SEE SHEETS 120 TO 125

FOR DRIVE PROFILES SEE SHEETS 120 TO 124

BM#5 IRON PIN SET WITH YELLOW 'TRAV' CAP
ELEV=918.43,
STA. 79+52.85, 48.72' RT

P.I. STA. 76+44.30
 $\Delta = 2^\circ 00' 49''$ (RT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 159.05'$
 $L = 318.07'$
 $E = 1.40'$
 $emax = N.C.$





 HORIZONTAL SCALE IN FEET
 CALCULATED: MMB
 CHECKED: JEL

**PLAN AND PROFILE - THORNWOOD
STA. 75+00 TO STA. 80+00**

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CALCULATED MMB CHECKED JEL

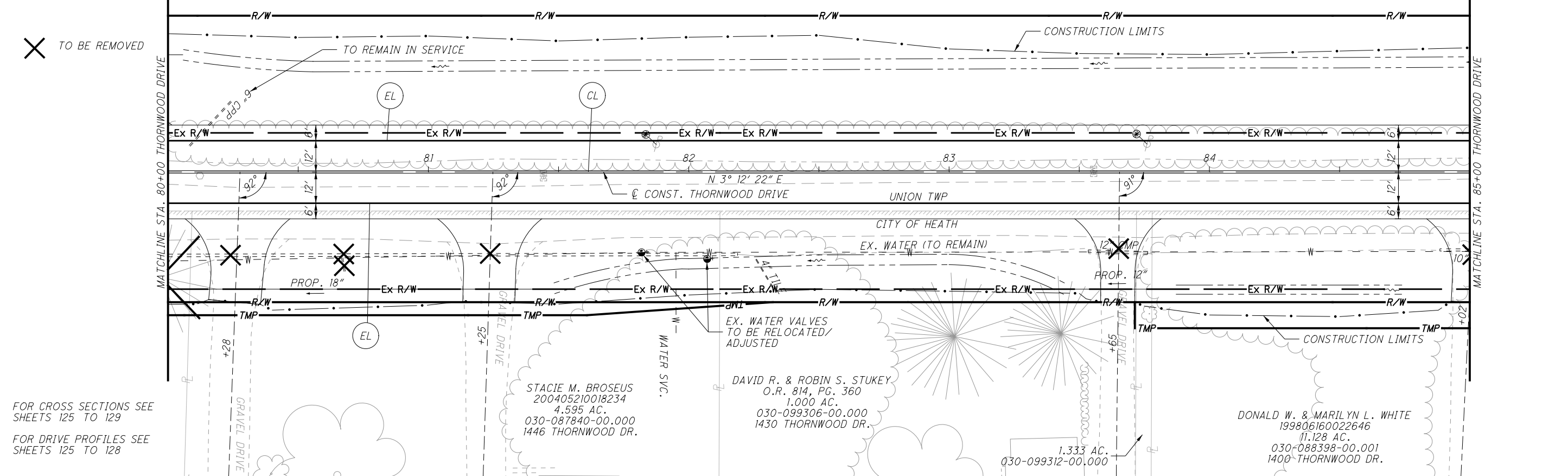
PLAN AND PROFILE - THORNWOOD
STA. 80+00 TO STA. 85+00

LIC-THORNWOOD

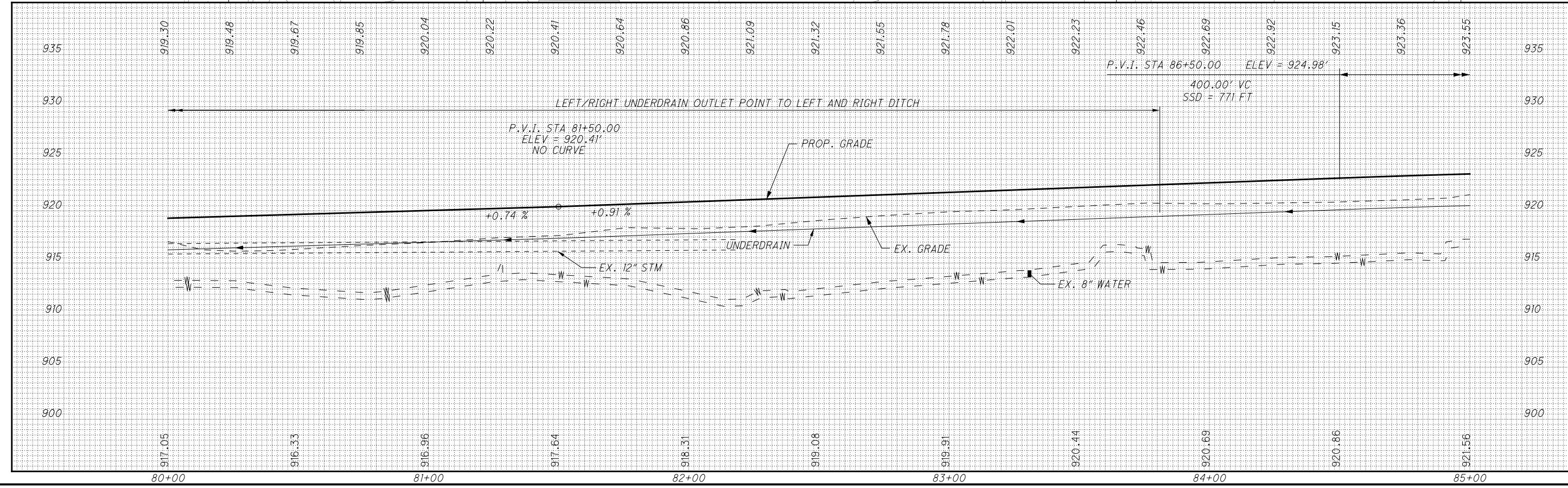
LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- X TO BE REMOVED

RICHARD L. MILLER
200005230016258
100.000 AC.
073-329376-00.000



FOR CROSS SECTIONS SEE SHEETS 125 TO 129
FOR DRIVE PROFILES SEE SHEETS 125 TO 128



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




CALCULATED
MMB
CHECKED
JEL

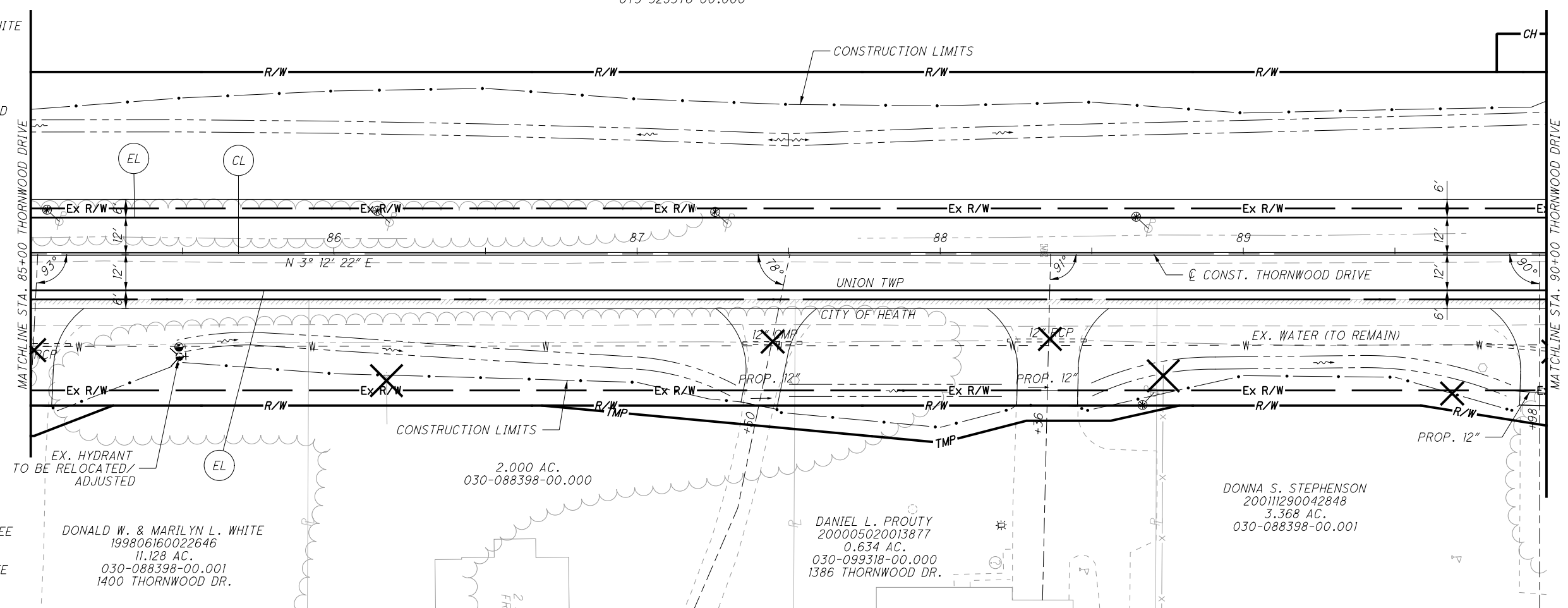
PLAN AND PROFILE - THORNWOOD
STA. 85+00 TO STA. 90+00

LIC-THORNWOOD

LEGEND

-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  TO BE REMOVED

RICHARD L. MILLER
200005230016258
100.000 AC.
073-329376-00.000



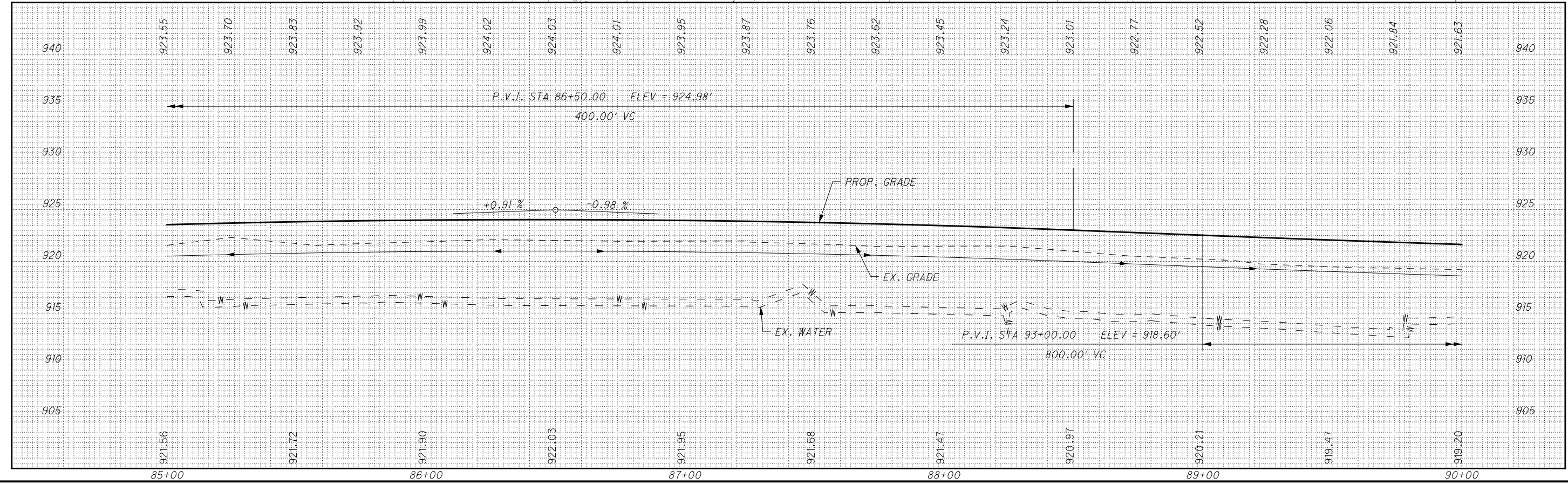
FOR CROSS SECTIONS SEE SHEETS 129 TO 134
FOR DRIVE PROFILES SEE SHEETS 129 TO 133

DONALD W. & MARILYN L. WHITE
199806160022646
11.128 AC.
030-088398-00.001
1400 THORNWOOD DR.

2.000 AC.
030-088398-00.000

DANIEL L. PROUTY
200005020013877
0.634 AC.
030-099318-00.000
1386 THORNWOOD DR.

DONNA S. STEPHENSON
200111290042848
3.368 AC.
030-088398-00.001



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LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE

X TO BE REMOVED

RICHARD L. MILLER
200005230016258
100.000 AC.
073-329376-00.000

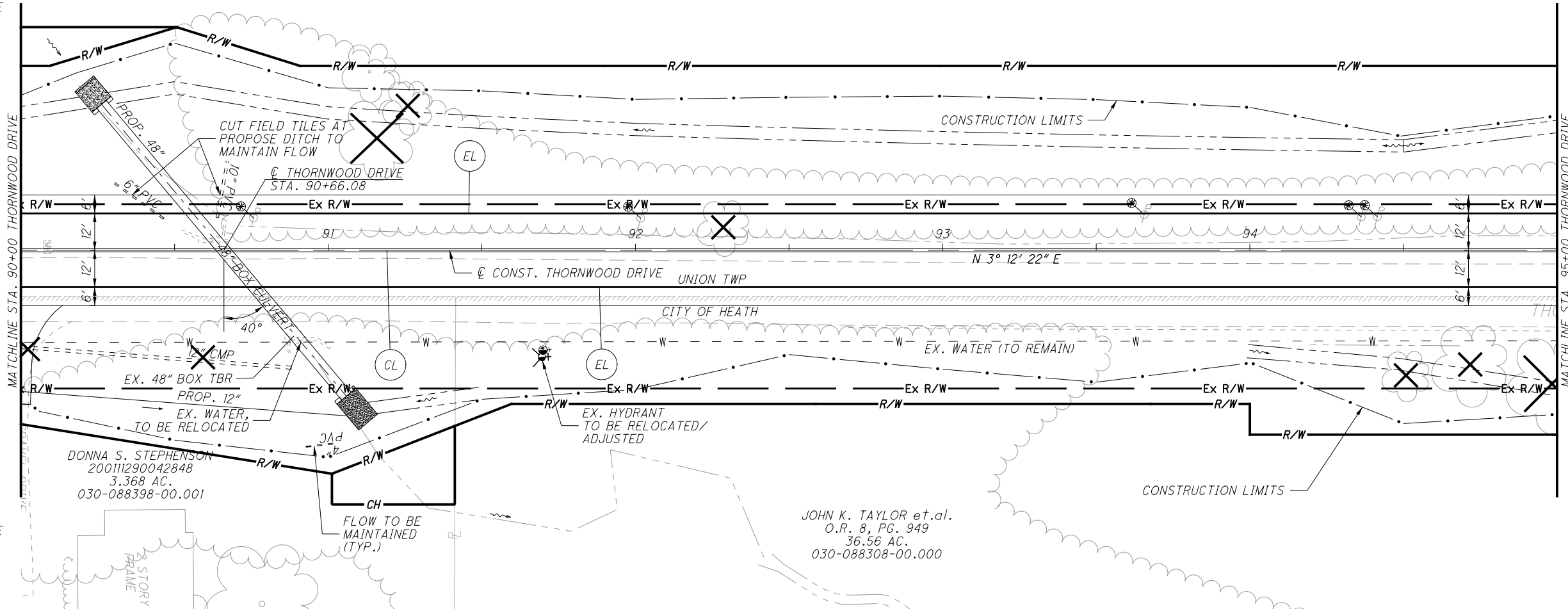




 HORIZONTAL SCALE IN FEET

PLAN AND PROFILE - THORNWOOD
STA. 90+00 TO STA. 95+00

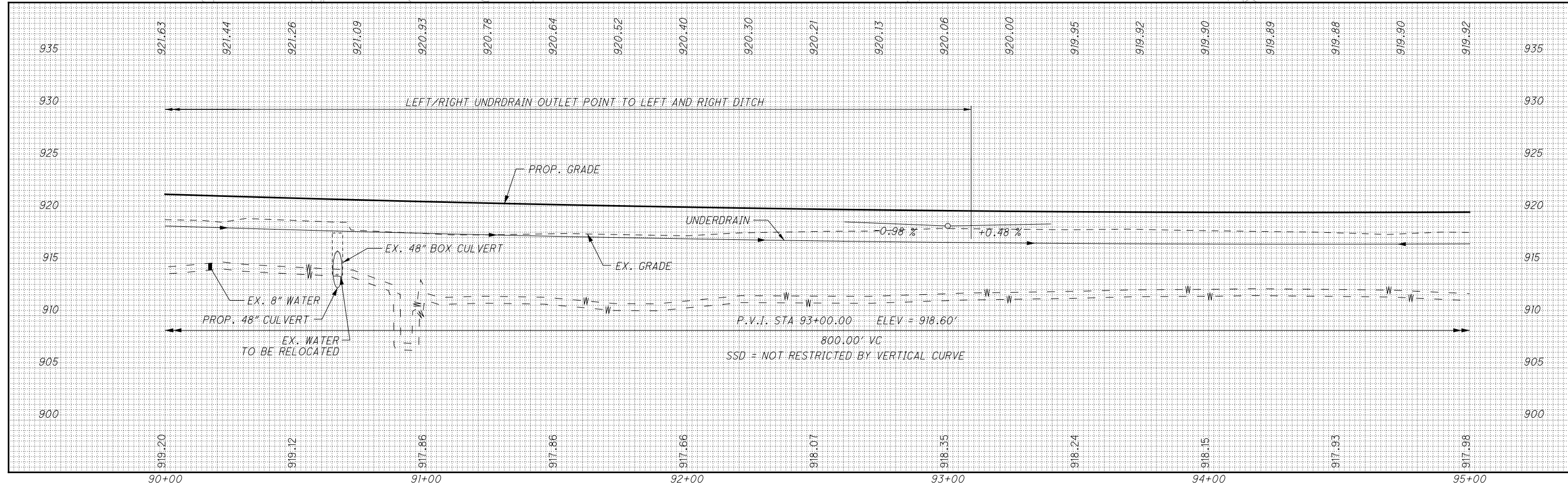
LIC-THORNWOOD



FOR CROSS SECTIONS SEE SHEETS 134 TO 137
FOR DRAINAGE DETAILS SEE SHEET 283





DONNA S. STEPHENSON
200111290042848
3.368 AC.
030-088398-00.001

JOHN K. TAYLOR et.al.
O.R. 8, PG. 949
36.56 AC.
030-088308-00.000



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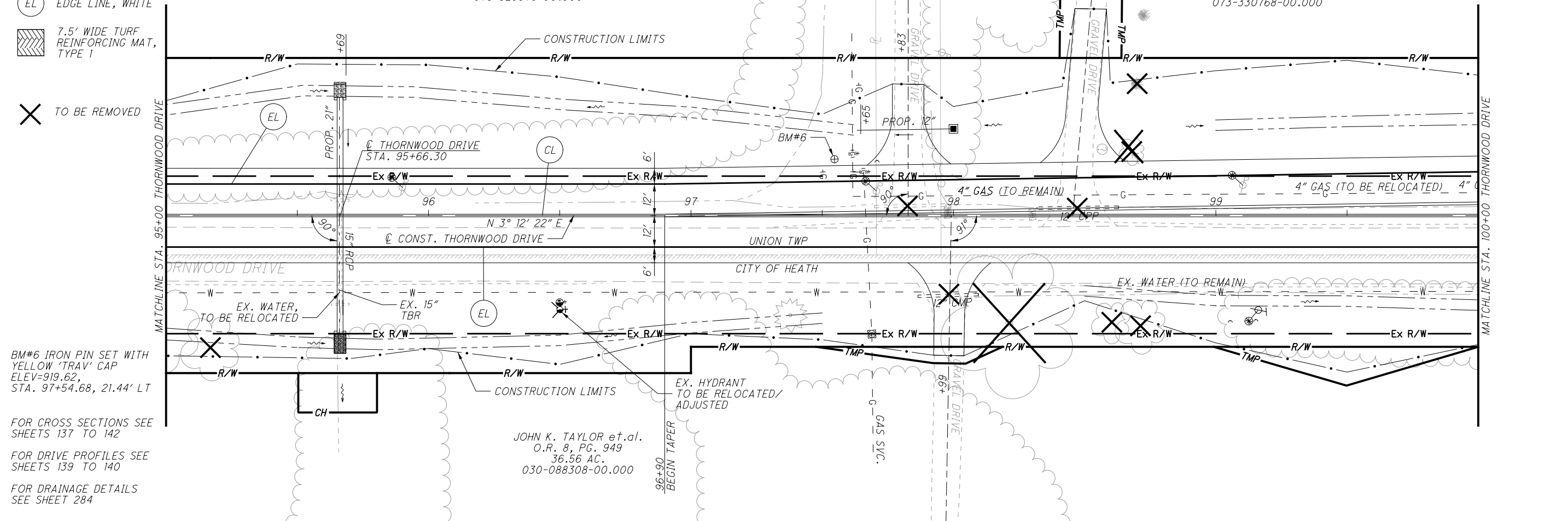
LEGEND

-  CL CENTER LINE, DOUBLE SOLID
-  EL EDGE LINE, WHITE
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  X TO BE REMOVED

RICHARD L. MILLER
200005230016258
100.000 AC.
073-329376-00.000

THOMAS C. & OLIVIA J. KAPTIS
200304140016450
2.685 AC.
073-329466-01.001

EMILY L. KENNARD
200003090007440
2.001 AC.
073-330768-00.000



BM#6 IRON PIN SET WITH YELLOW 'TRAV' CAP
ELEV=919.62,
STA. 97+54.68, 21.44' LT

FOR CROSS SECTIONS SEE SHEETS 137 TO 142

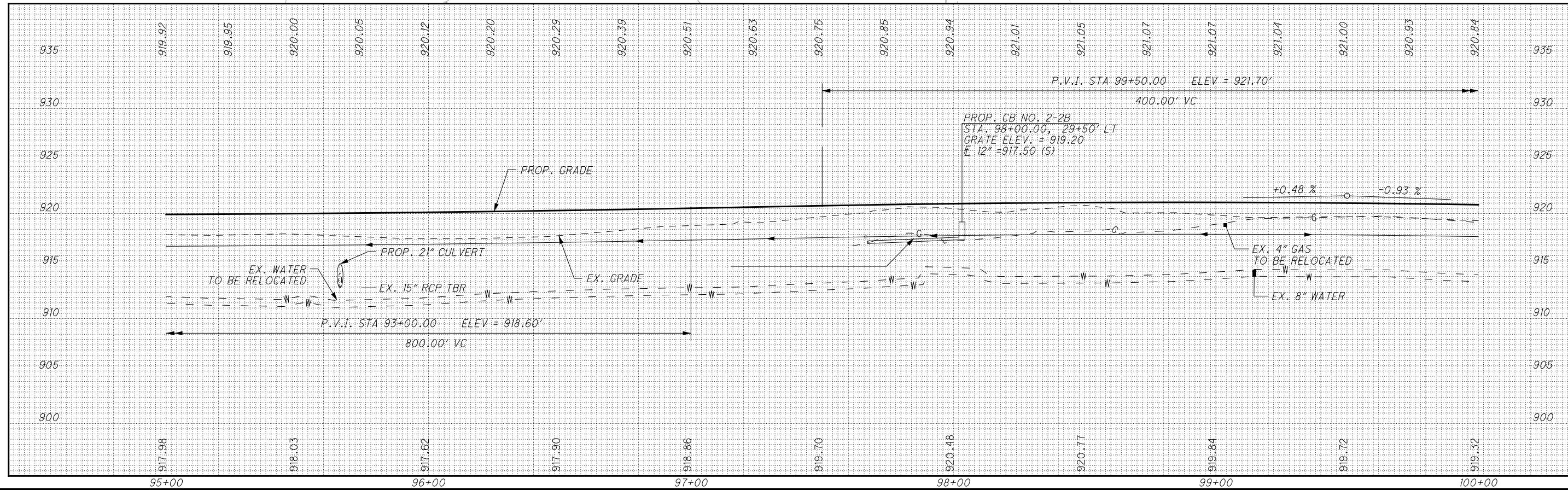
FOR DRIVE PROFILES SEE SHEETS 139 TO 140

FOR DRAINAGE DETAILS SEE SHEET 284

JOHN K. TAYLOR et.al.
O.R. 8, PG. 949
36.56 AC.
030-088308-00.000

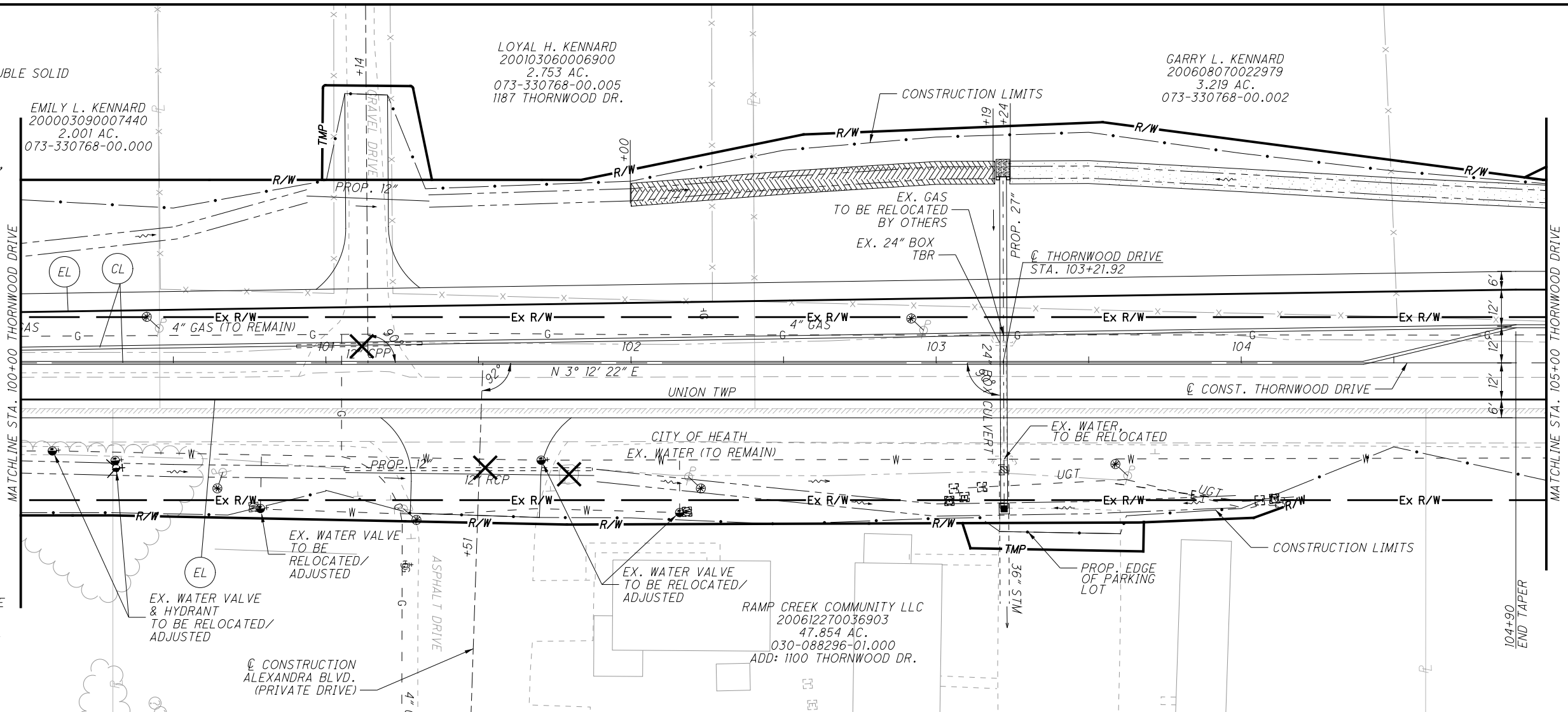


**PLAN AND PROFILE - THORNWOOD
STA. 95+00 TO STA. 100+00**

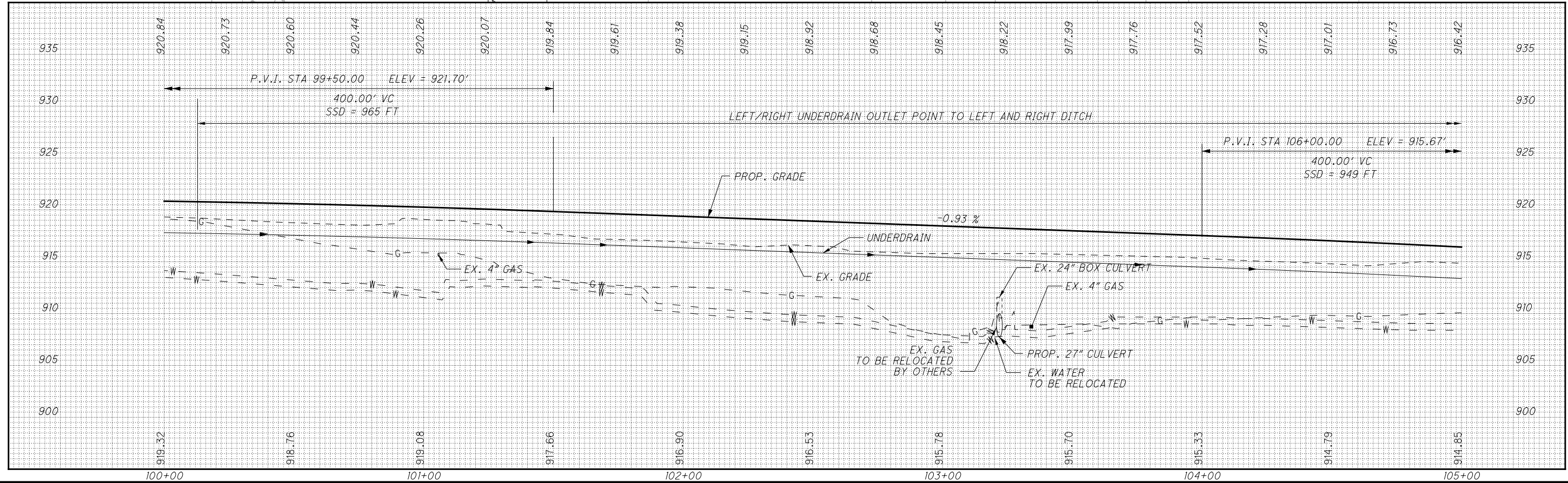


LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1
- 7.5' WIDE DITCH EROSION PROTECTION
- X TO BE REMOVED



FOR CROSS SECTIONS SEE SHEETS 142 TO 146
 FOR DRIVE PROFILES SEE SHEET 143
 FOR DRAINAGE DETAILS SEE SHEET 285







 CALCULATED: MMB
 CHECKED: JEL

**PLAN AND PROFILE - THORNWOOD
 STA. 100+00 TO STA. 105+00**

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LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE
- CH CHANNELIZING LINE
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1
- 7.5' WIDE DITCH EROSION PROTECTION
- X TO BE REMOVED

P.I. STA. 109+78.03
 $\Delta = 1^\circ 41' 07''$ (RT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 133.10'$
 $L = 266.18'$
 $E = 0.98'$
 $emax = N.C.$

GARRY L. KENNARD
 200608070022979
 3.219 AC.
 073-330768-00.002

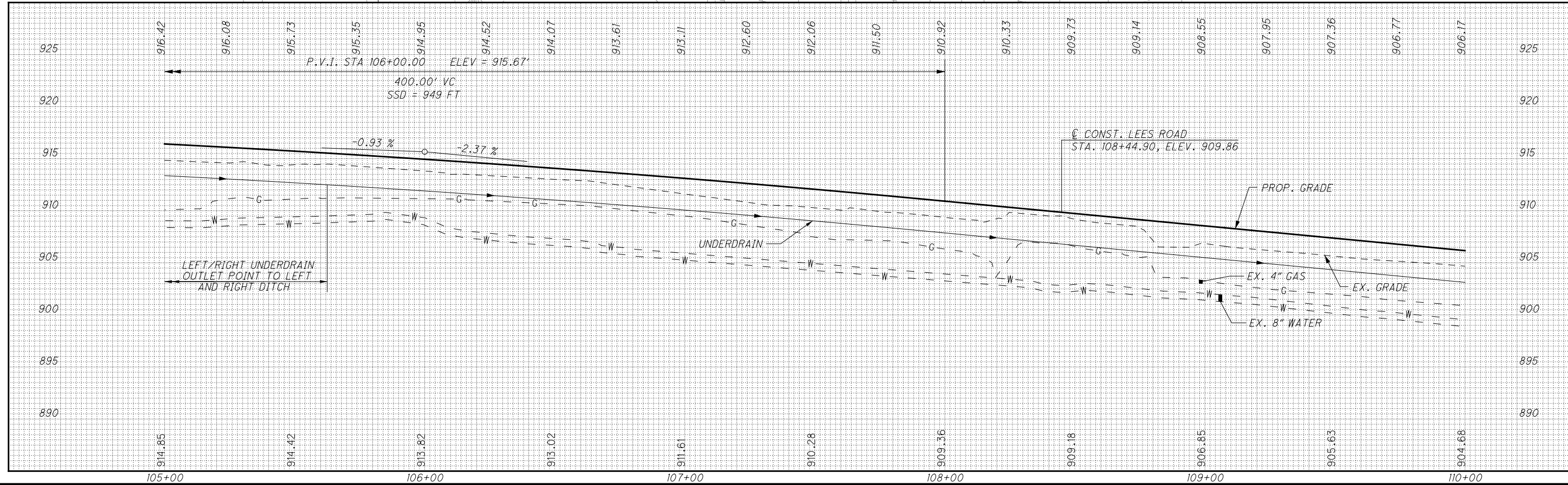
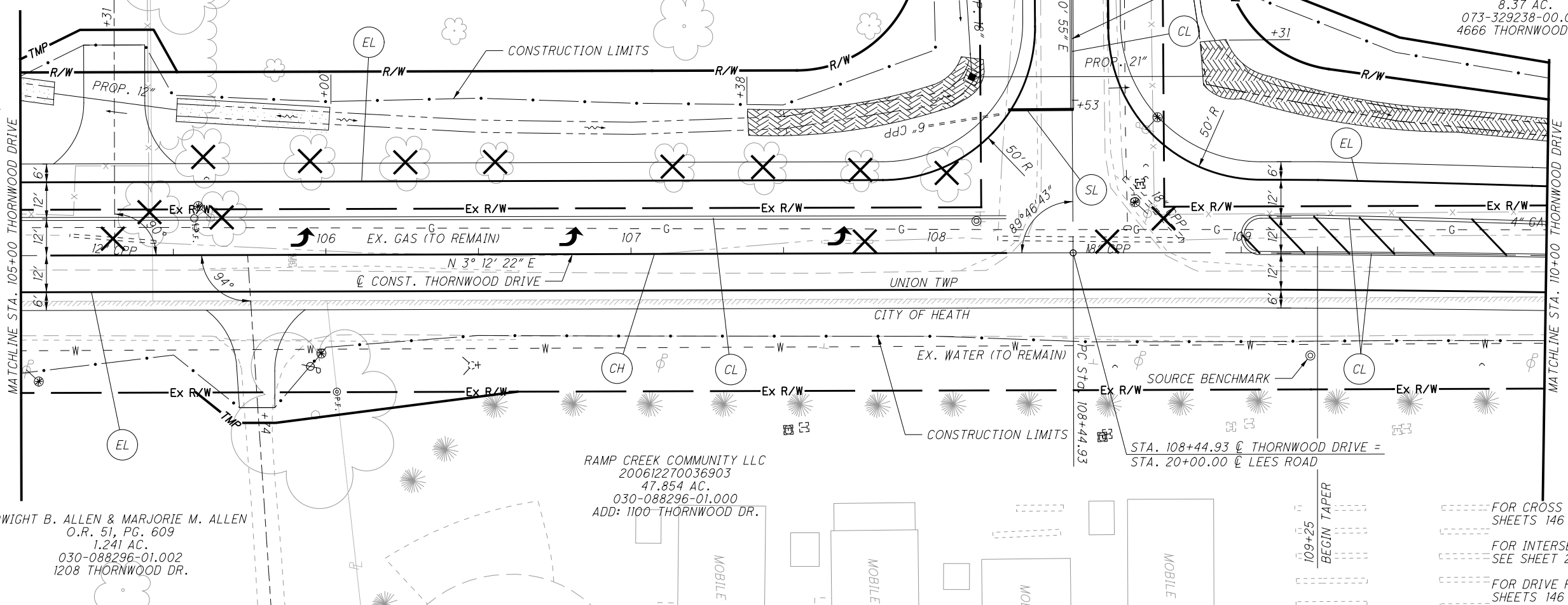
TIM E. & VICKY GHILONI
 200307250035135
 3.219 AC.
 073-330768-00.003
 2982 LEES RD.

SOURCE BENCHMARK CONTROL POINT #21,
 CITY OF HEATH CONCRETE MONUMENT H-21
 ELEV=906.25, STA. 109+22.87, 33.51' RTBM

RONALD E. SYLVESTER & LAURA J. SYLVESTER
 O.R. 65, PG. 856
 8.37 AC.
 073-329238-00.000
 4666 THORNWOOD DR.

DWIGHT B. ALLEN & MARJORIE M. ALLEN
 O.R. 51, PG. 609
 1.241 AC.
 030-088296-01.002
 1208 THORNWOOD DR.





RAMP CREEK COMMUNITY LLC
 200612270036903
 47.854 AC.
 030-088296-01.000
 ADD: 1100 THORNWOOD DR.



PLAN AND PROFILE - THORNWOOD
STA. 105+00 TO STA. 110+00

LIC-THORNWOOD

LEGEND

-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  TO BE REMOVED

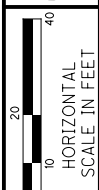
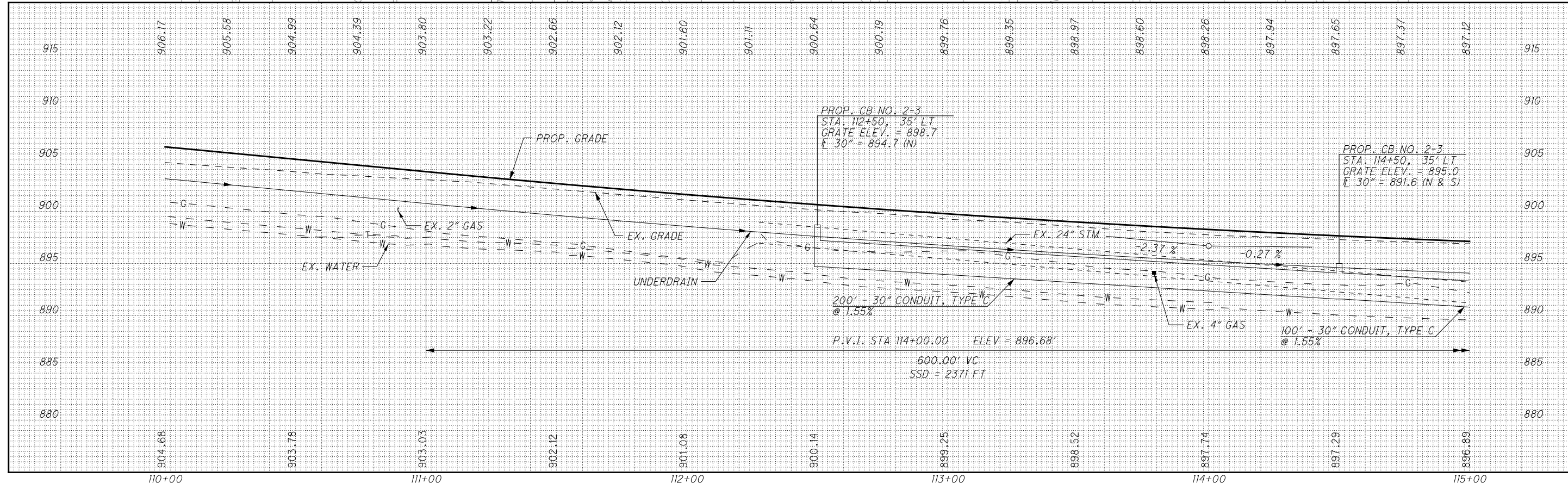
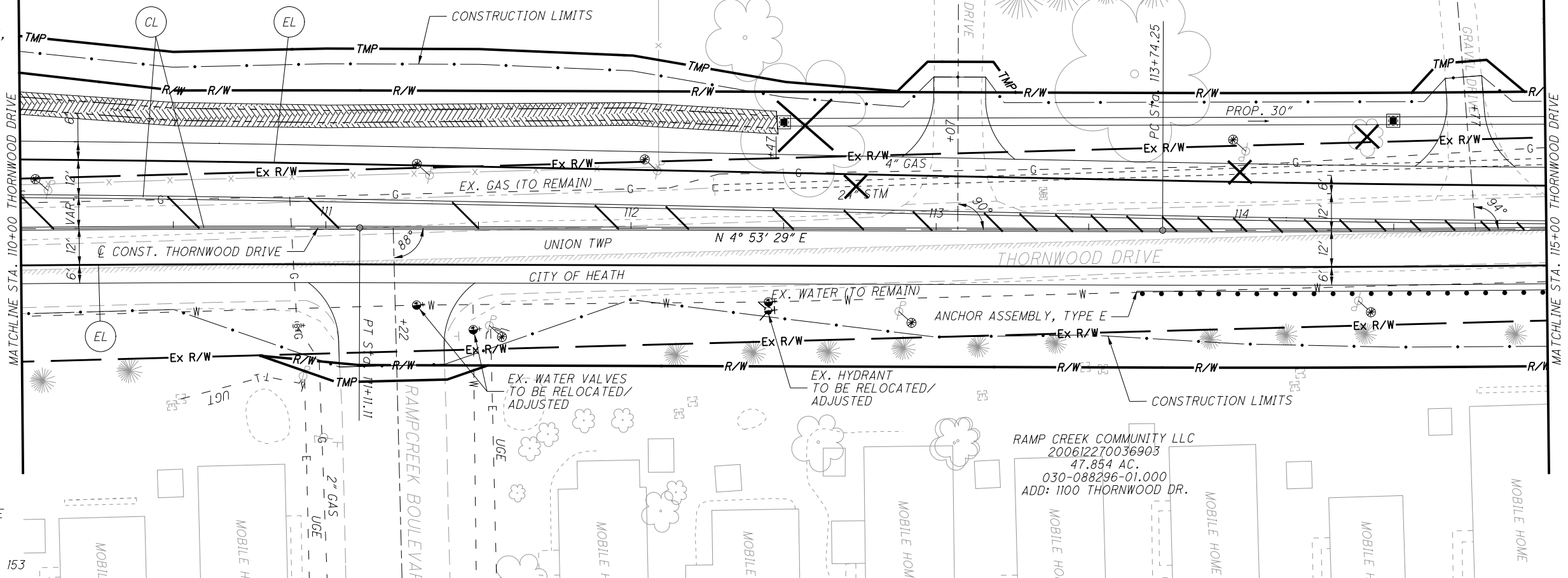
P.I. STA. 109+78.03
 $\Delta = 1^\circ 41' 07''$ (RT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 133.10'$
 $L = 266.18'$
 $E = 0.98'$
 $emax = N.C.$

P.I. STA. 115+17.24
 $\Delta = 1^\circ 48' 38''$ (LT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 143.00'$
 $L = 285.97'$
 $E = 1.13'$
 $emax = N.C.$

FOR CROSS SECTIONS SEE SHEETS 149 TO 153

FOR DRIVE PROFILES SEE SHEETS 150 AND 152 TO 153

RONALD E. SYLVESTER & LAURA J. SYLVESTER
 O.R. 65, PG. 856
 8.37 AC.
 073-329238-00.000
 4666 THORNWOOD DR.



CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
 STA. 110+00 TO STA. 115+00**

LIC-THORNWOOD

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE

BM#7 CHISELED 'SQUARE' ON
SOUTHEAST CORNER OF HEADWALL
ELEV=893.04, STA. 116+44.57, 29.44' RT

JERRY ALLEN LEES & MARILYN LEES
D.B. 832, PG. 739
100.298 AC.

RONALD E. SYLVESTER & LAURA J. SYLVESTER
O.R. 65, PG. 856
8.37 AC.
073-329238-00.000
4666 THORNWOOD DR.

MATCHLINE STA. 115+00 THORNWOOD DRIVE

MATCHLINE STA. 120+00 THORNWOOD DRIVE

P.I. STA. 115+17.24
 $\Delta = 1^\circ 48' 38''$ (LT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 143.00'$
 $L = 285.97'$
 $E = 1.13'$
 $e_{max} = N.C.$

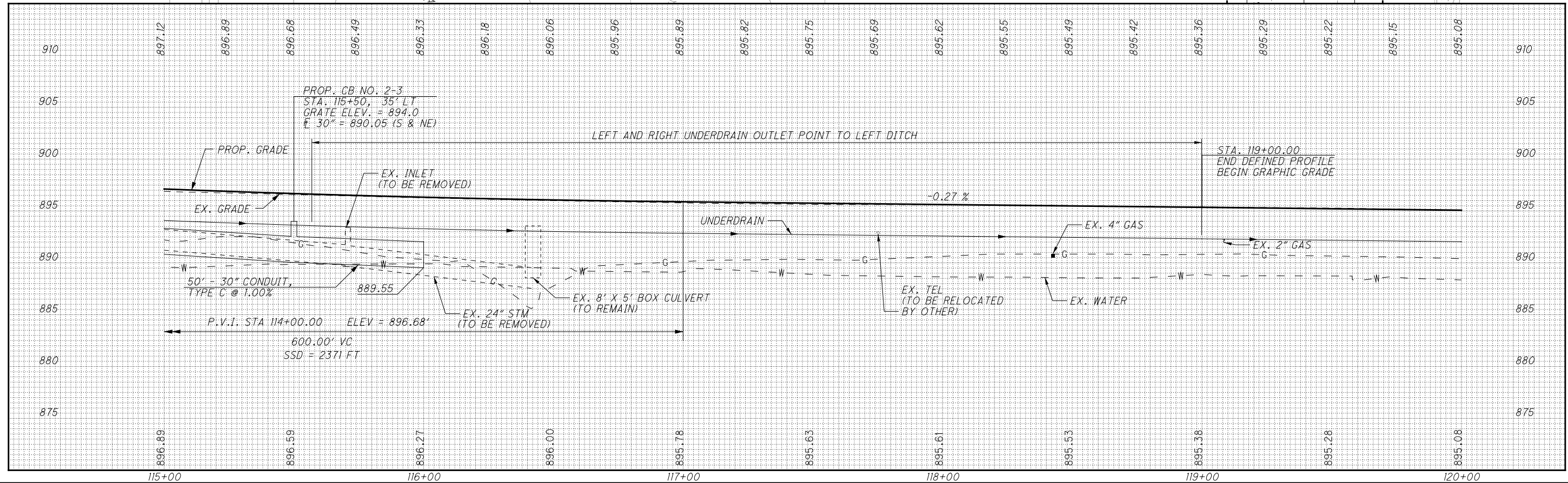
FOR CROSS SECTIONS SEE
SHEETS 153 TO 156
FOR INTERSECTION DETAILS
SEE SHEET 263

RAMP CREEK COMMUNITY LLC
200612270036903
47.854 AC.
030-088296-01.000
ADD: 1100 THORNWOOD DR.

BKC INC.
199906150025213
3.245 AC.

BKC INC.
200005030013978
LOT 31 - 0.416 AC.
030-088296-01.036
ADD: 999 BROOKSIDE DR.

CHRISTOPHER R. &
TAMMA F. STANLEY
200012080039011
RESERVE 'A' - 0.259 AC.
030-088296-01.033



**PLAN AND PROFILE - THORNWOOD
STA. 115+00 TO STA. 120+00**

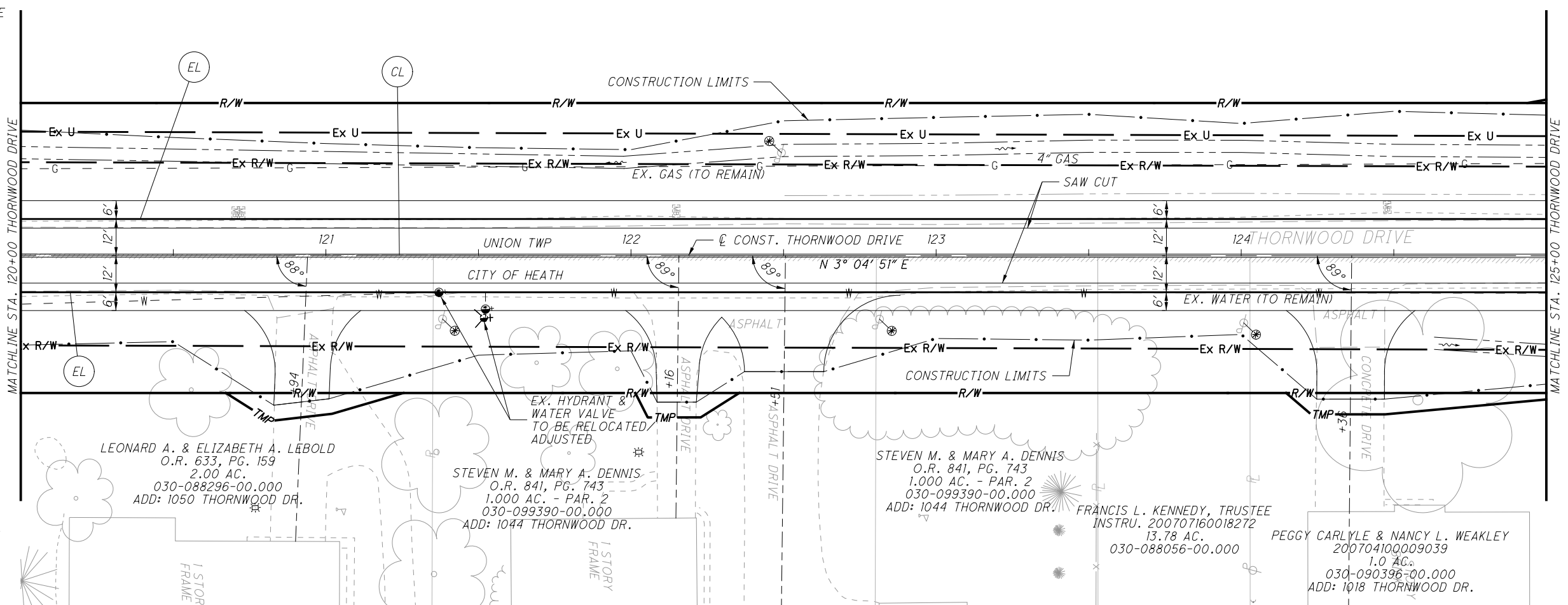
LIC-THORNWOOD

LEGEND

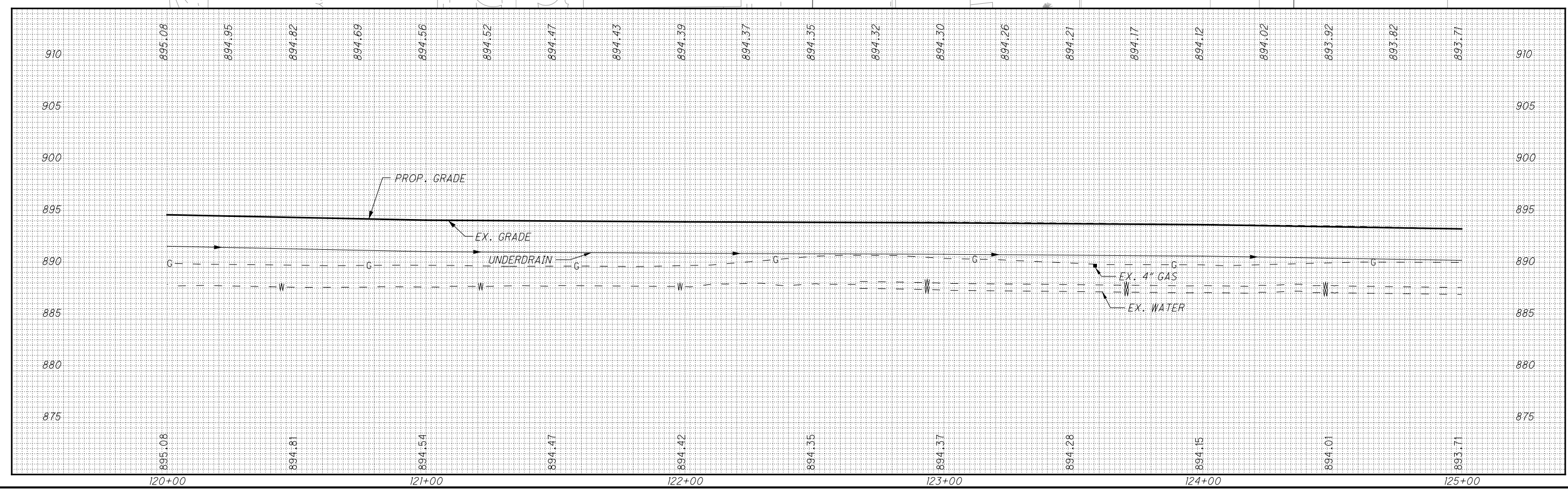
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE

JERRY ALLEN LEES & MARILYN LEES
D.B. 832, PG. 739
100.298 AC.

CALCULATED MMB CHECKED JEL






FOR CROSS SECTIONS SEE SHEETS 156 TO 161
FOR DRIVE PROFILES SEE SHEETS 157 TO 160

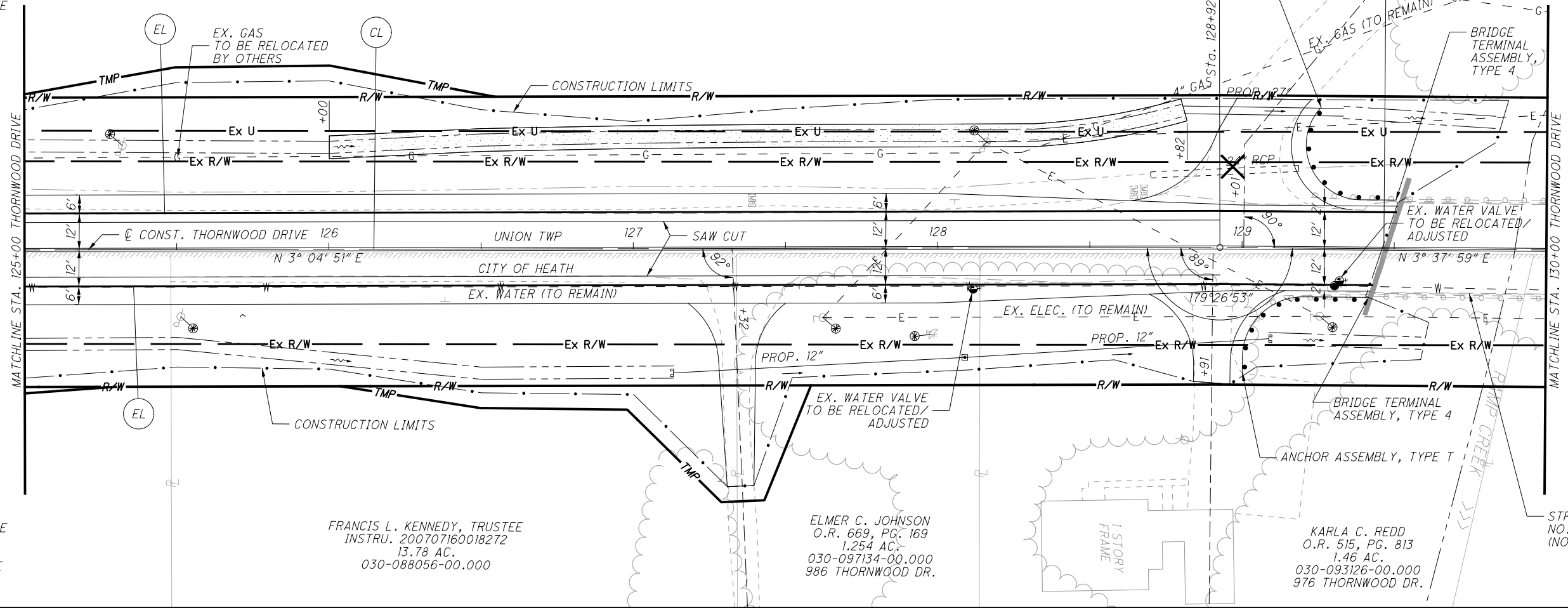


**PLAN AND PROFILE - THORNWOOD
STA. 120+00 TO STA. 125+00**

LIC-THORNWOOD

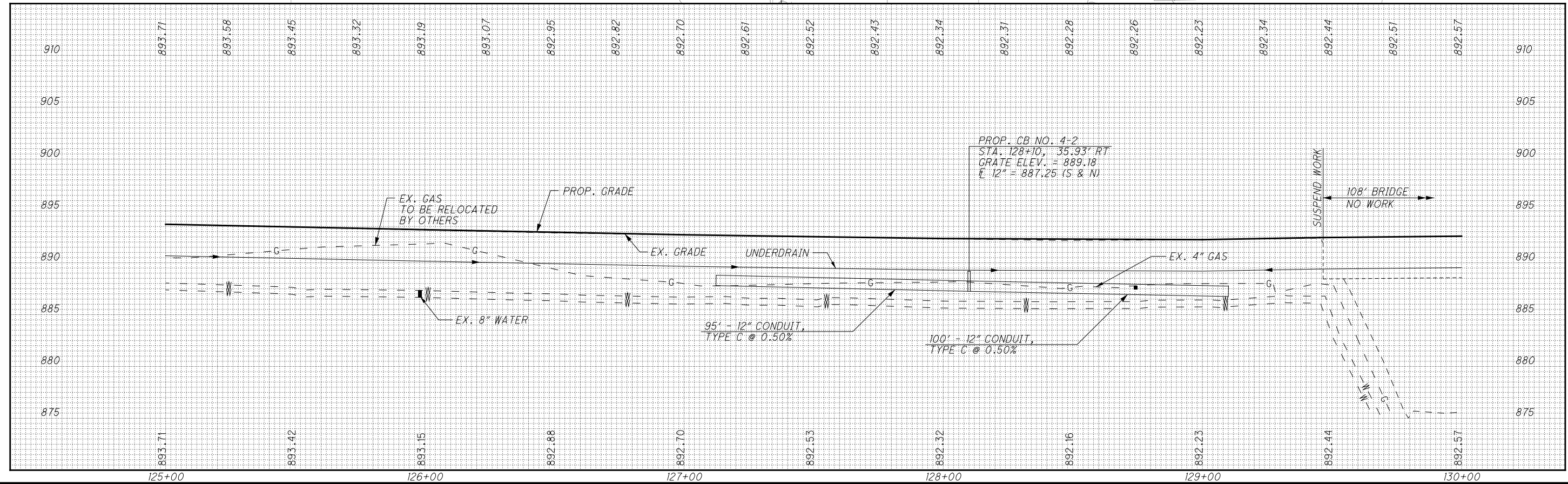
LEGEND

-  CL CENTER LINE, DOUBLE SOLID
-  EL EDGE LINE, WHITE
-  7.5' WIDE DITCH EROSION PROTECTION



FOR CROSS SECTIONS SEE SHEETS 161 TO 164

FOR DRIVE PROFILES SEE SHEETS 162 TO 164



CALCULATED MMB CHECKED JEL

0 10 20 40
HORIZONTAL SCALE IN FEET

**PLAN AND PROFILE - THORNWOOD
STA. 125+00 TO STA. 130+00**

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LEGEND

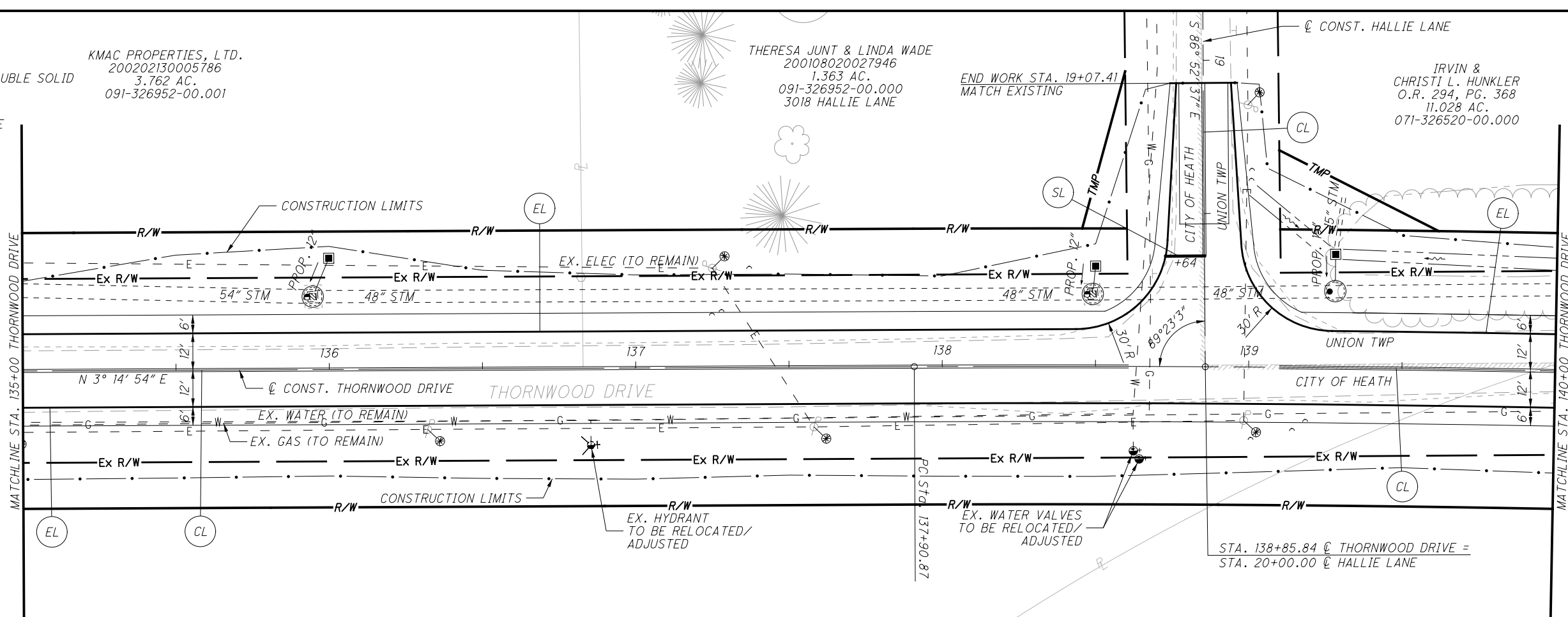
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE

KMAC PROPERTIES, LTD.
200202130005786
3.762 AC.
091-326952-00.001

THERESA JUNT & LINDA WADE
200108020027946
1.363 AC.
091-326952-00.000
3018 HALLIE LANE

IRVIN &
CHRISTI L. HUNKLER
O.R. 294, PG. 368
11.028 AC.
071-326520-00.000

END WORK STA. 19+07.41
MATCH EXISTING



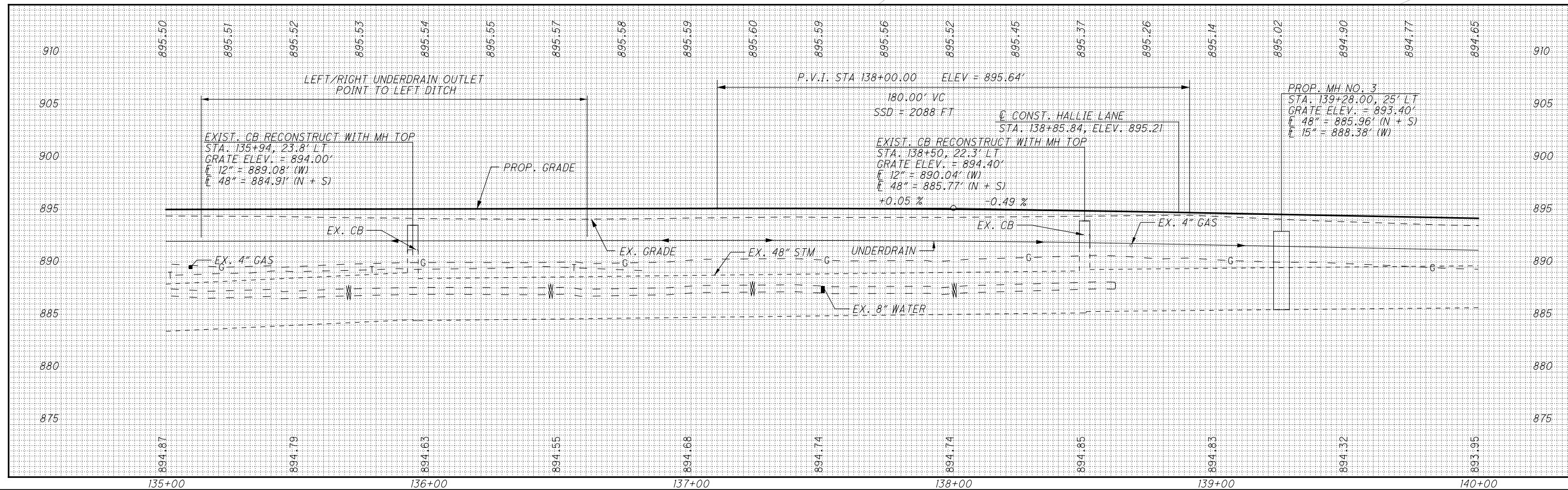
P.I. STA. 139+56.69
 $\Delta = 2^\circ 06' 40''$ (RT)
 $D_c = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 165.82'$
 $L = 331.60'$
 $E = 1.53'$
 $e_{max} = N.C.$

FOR CROSS SECTIONS SEE SHEETS 168 TO 171

FOR INTERSECTION DETAILS SEE SHEET 264

STATE OF OHIO
D.B. 685, PG. 511
3.122 AC.

STATE OF OHIO
D.B. 685, PG. 513
4.430 AC.



PLAN AND PROFILE - THORNWOOD
STA. 135+00 TO STA. 140+00

LIC-THORNWOOD

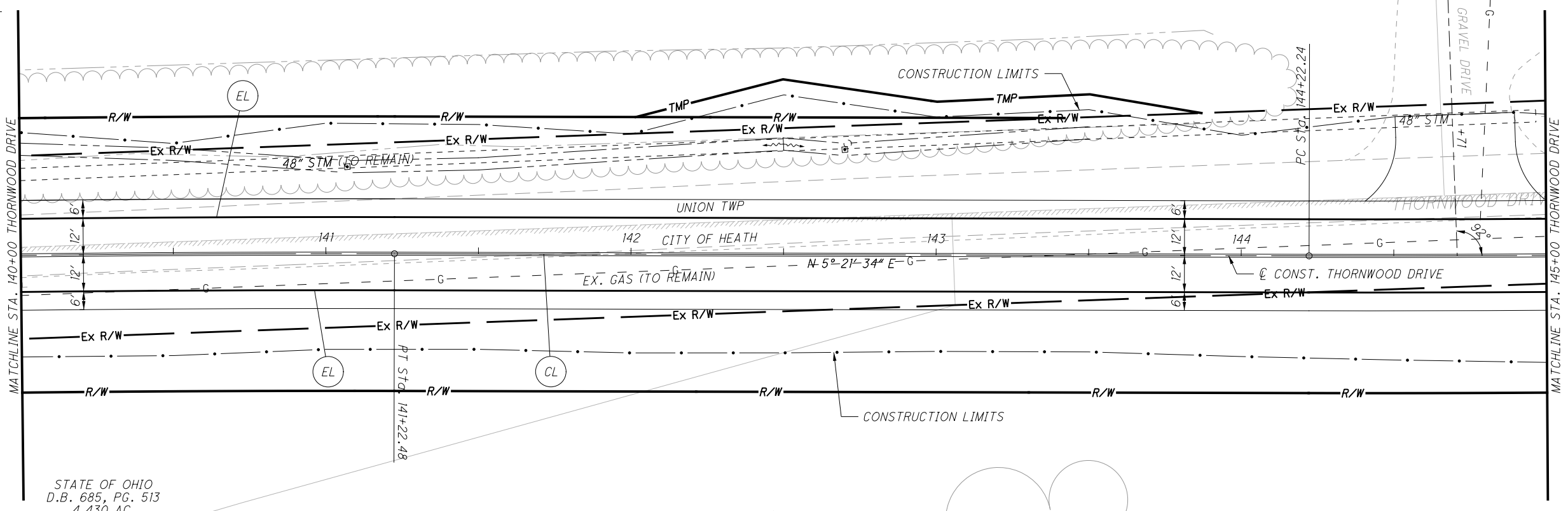
LEGEND

- (CL) CENTER LINE, DOUBLE SOLID
- (EL) EDGE LINE, WHITE

IRVIN & CHRISTI L. HUNKLER
 O.R. 294, PG. 368
 11.028 AC.
 071-326520-00.000

P.I. STA. 139+56.69
 $\Delta = 2^\circ 06' 40''$ (RT)
 $D_c = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 165.82'$
 $L = 331.60'$
 $E = 1.53'$
 $e_{max} = N.C.$

P.I. STA. 147+90.54
 $\Delta = 4^\circ 41' 12''$ (LT)
 $D_c = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 368.30'$
 $L = 736.19'$
 $E = 7.53'$
 $e_{max} = N.C.$



STATE OF OHIO
 D.B. 685, PG. 513
 4.430 AC.

JAMES A. MAGNUSON et.al.
 200208050028489
 69.68 AC.

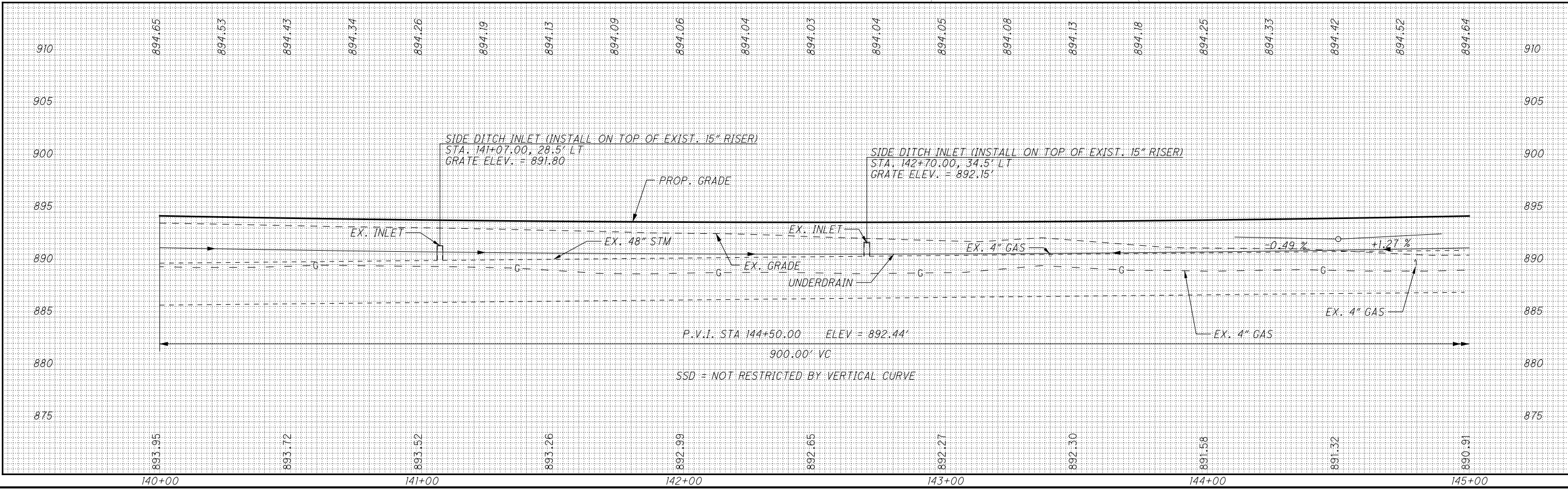
FOR CROSS SECTIONS SEE SHEETS 171 TO 175
 FOR DRIVE PROFILES SEE SHEET 175

CALCULATED MMB CHECKED JEL

HORIZONTAL SCALE IN FEET

PLAN AND PROFILE - THORNWOOD
STA. 140+00 TO STA. 145+00

LIC-THORNWOOD



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LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE

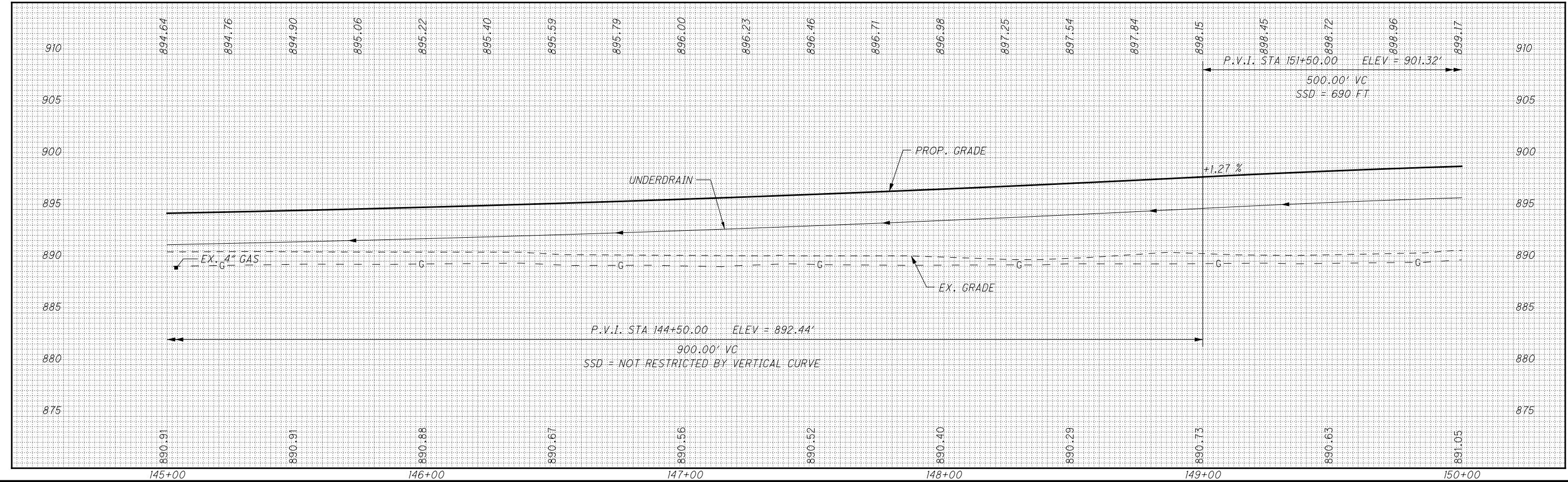
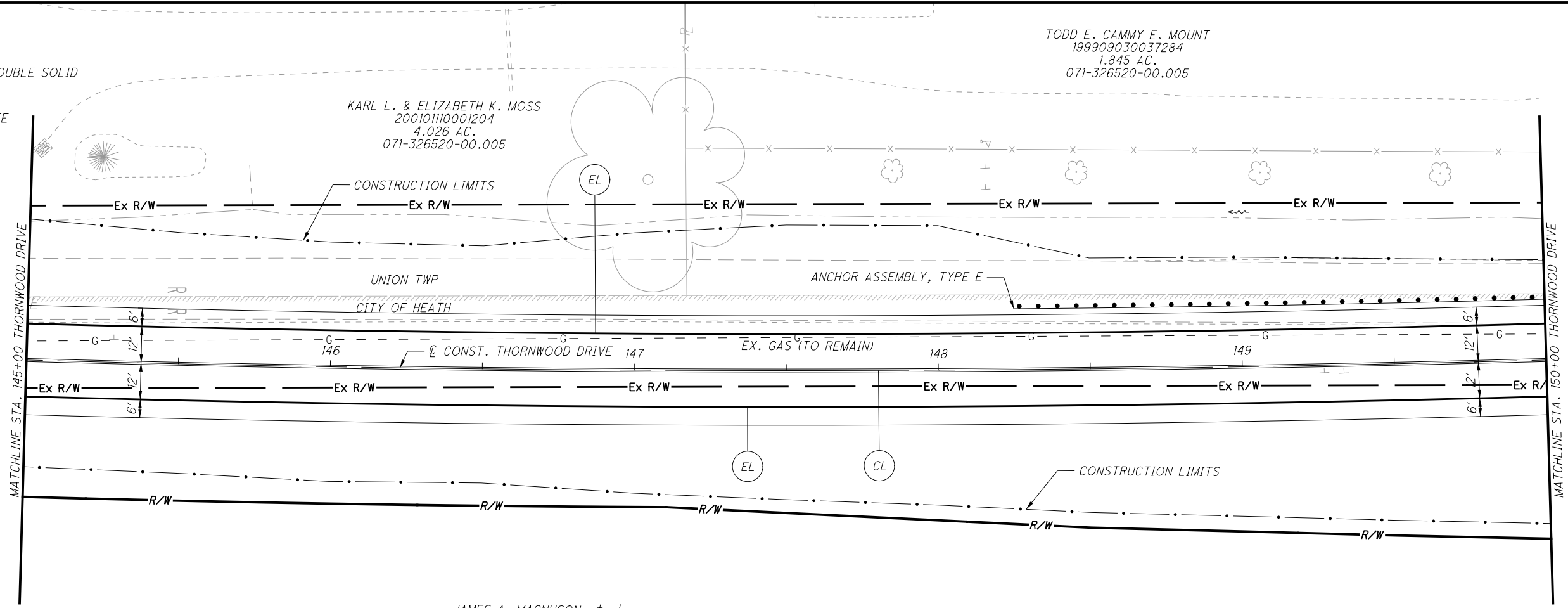
TODD E. CAMMY E. MOUNT
 199909030037284
 1.845 AC.
 071-326520-00.005

KARL L. & ELIZABETH K. MOSS
 200101110001204
 4.026 AC.
 071-326520-00.005

JAMES A. MAGNUSON et.al.
 200208050028489
 69.68 AC.

P.I. STA. 147+90.54
 $\Delta = 4^\circ 41' 12''$ (L.T.)
 $D_c = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 368.30'$
 $L = 736.19'$
 $E = 7.53'$
 $e_{max} = N.C.$

FOR CROSS SECTIONS SEE
 SHEETS 175 TO 178



CALCULATED MMB CHECKED JEL

0 10 20 40
 HORIZONTAL SCALE IN FEET

**PLAN AND PROFILE - THORNWOOD
 STA. 145+00 TO STA. 150+00**

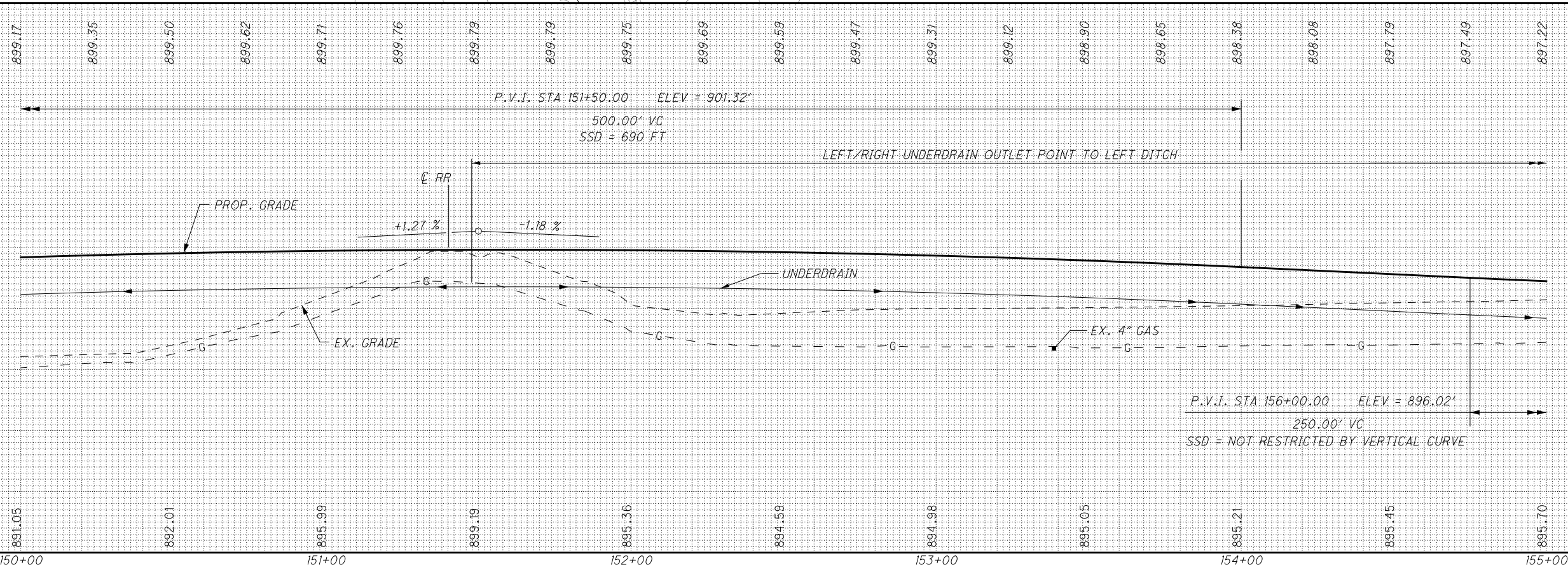
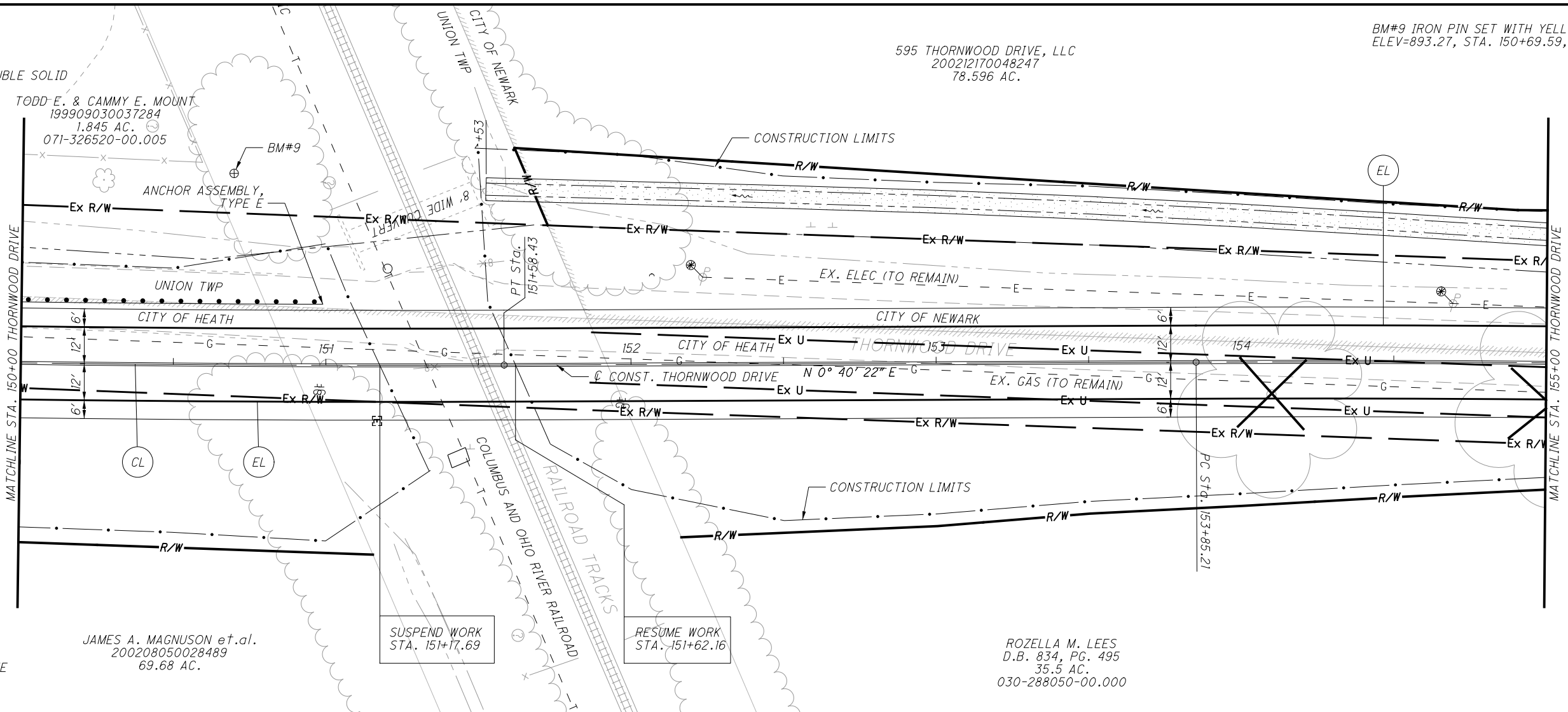
LIC-THORNWOOD

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- 7.5' WIDE DITCH EROSION PROTECTION
- X TO BE REMOVED

P.I. STA. 155+64.90
 $\Delta = 2^\circ 17' 15''$ (RT)
 $D_c = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 179.69'$
 $L = 359.34'$
 $E = 1.79'$
 $e_{max} = N.C.$

FOR CROSS SECTIONS SEE SHEETS 178 TO 181



BM#9 IRON PIN SET WITH YELLOW 'TRAV' CAP
 ELEV=893.27, STA. 150+69.59, 62.77' LT

595 THORNWOOD DRIVE, LLC
 200212170048247
 78.596 AC.

JAMES A. MAGNUSON et.al.
 200208050028489
 69.68 AC.

SUSPEND WORK
 STA. 151+17.69

ROZELLA M. LEES
 D.B. 834, PG. 495
 35.5 AC.
 030-288050-00.000

CALCULATED MMB CHECKED JEL




0 20 40
 HORIZONTAL SCALE IN FEET


**PLAN AND PROFILE - THORNWOOD
 STA. 150+00 TO STA. 155+00**

LIC-THORNWOOD

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LEGEND

-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE DITCH EROSION PROTECTION

 TO BE REMOVED

595 THORNWOOD DRIVE, LLC
200212170048247
78.596 AC.

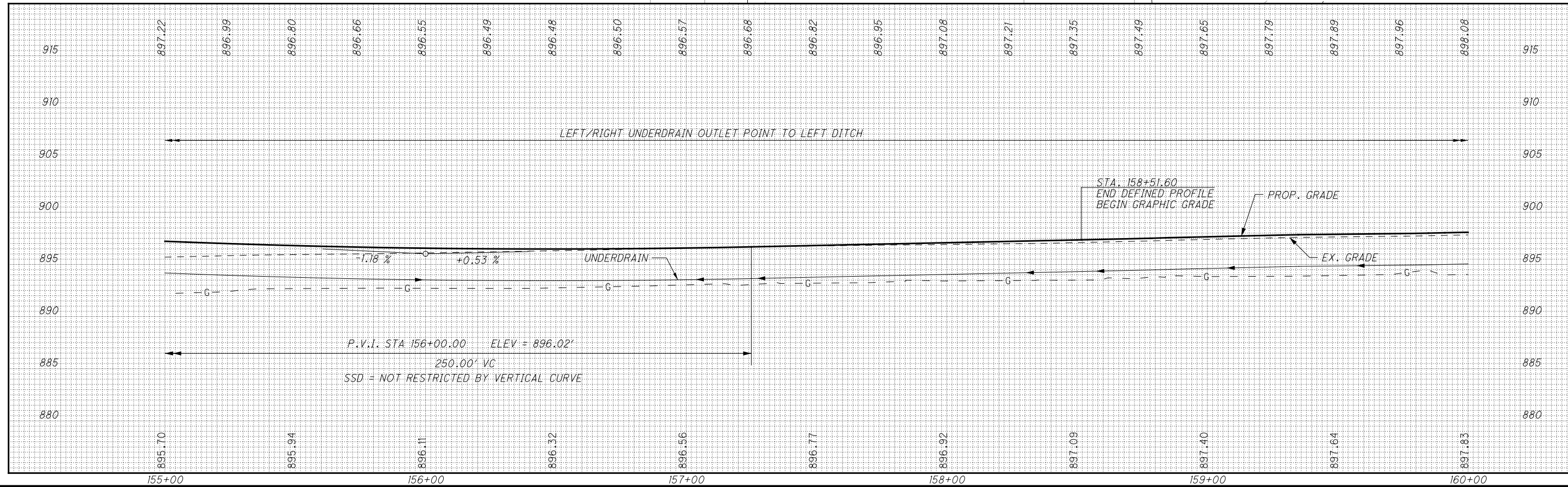
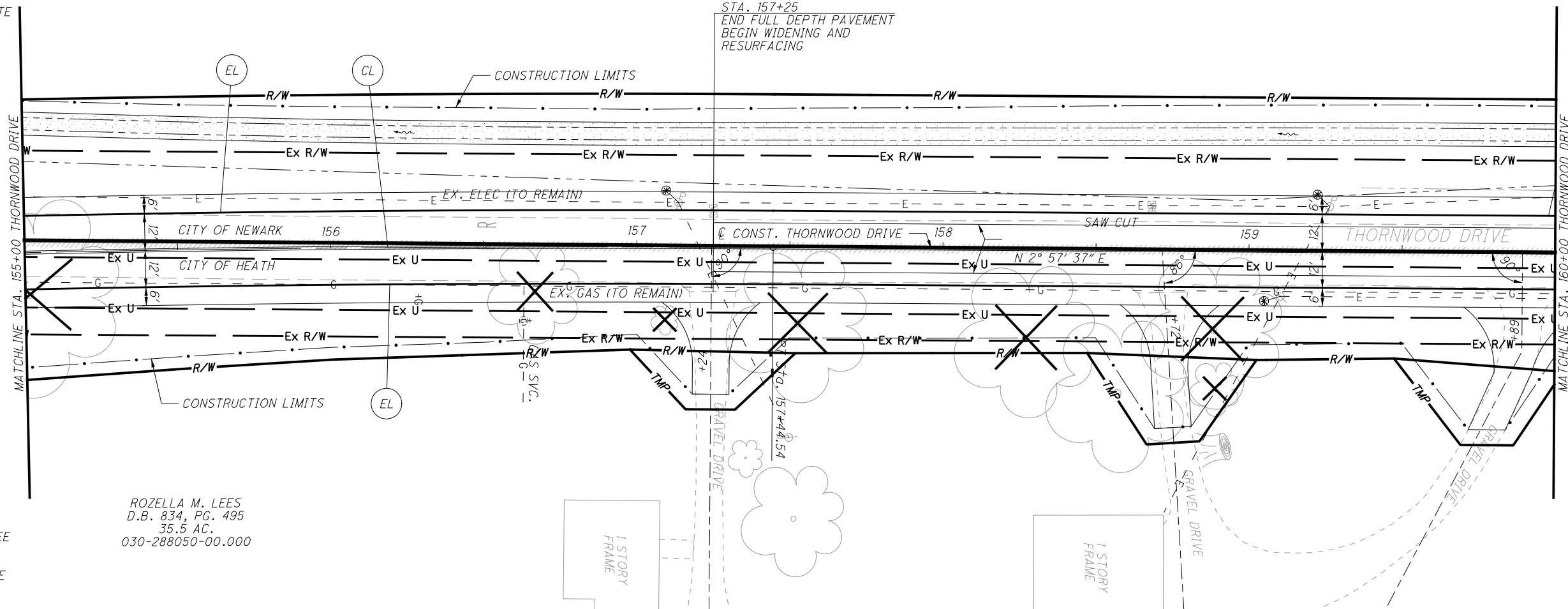
STA. 157+25
END FULL DEPTH PAVEMENT
BEGIN WIDENING AND
RESURFACING

P.I. STA. 155+64.90
 $\Delta = 2^\circ 17' 15''$ (RT)
 $D_c = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 179.69'$
 $L = 359.34'$
 $E = 1.79'$
 $e_{max} = N.C.$

FOR CROSS SECTIONS SEE
SHEETS 181 TO 184

FOR DRIVE PROFILES SEE
SHEETS 182 TO 184

ROZELLA M. LEES
D.B. 834, PG. 495
35.5 AC.
030-288050-00.000








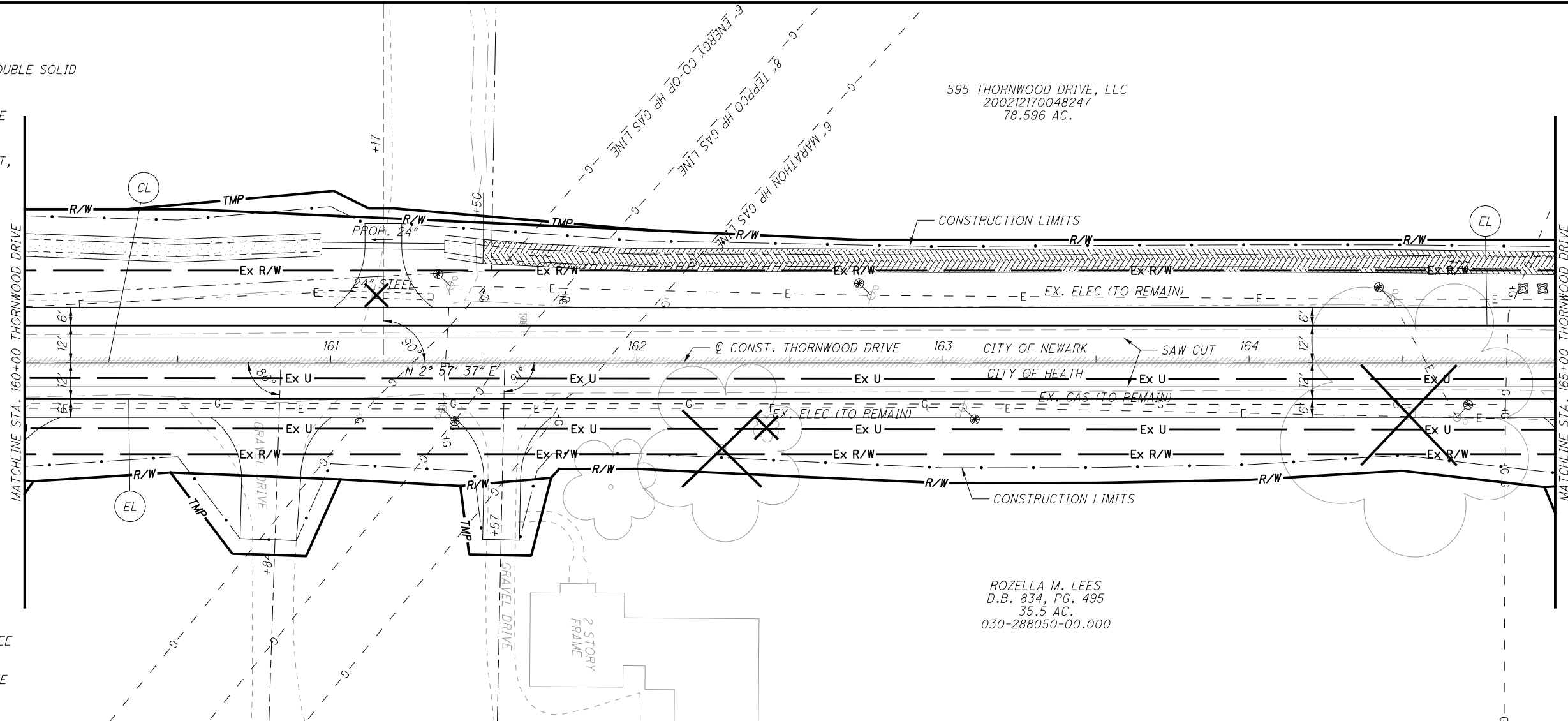
CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 155+00 TO STA. 160+00**

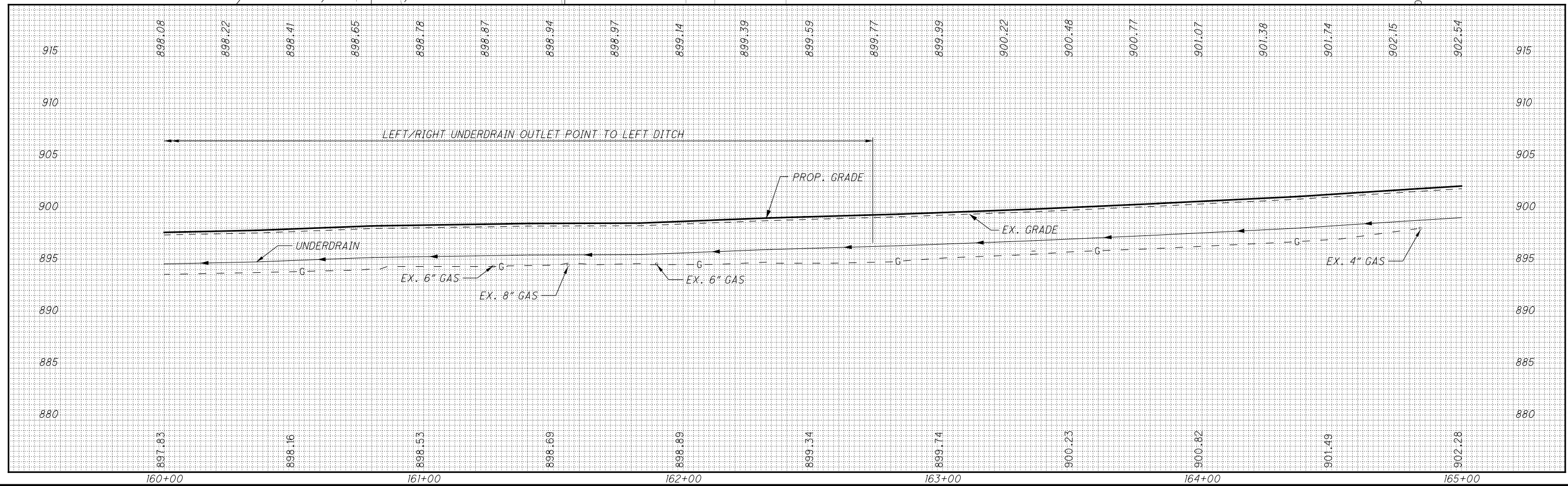
LIC-THORNWOOD

LEGEND

-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  7.5' WIDE DITCH EROSION PROTECTION
-  TO BE REMOVED



FOR CROSS SECTIONS SEE SHEETS 184 TO 188
 FOR DRIVE PROFILES SEE SHEETS 185 TO 186












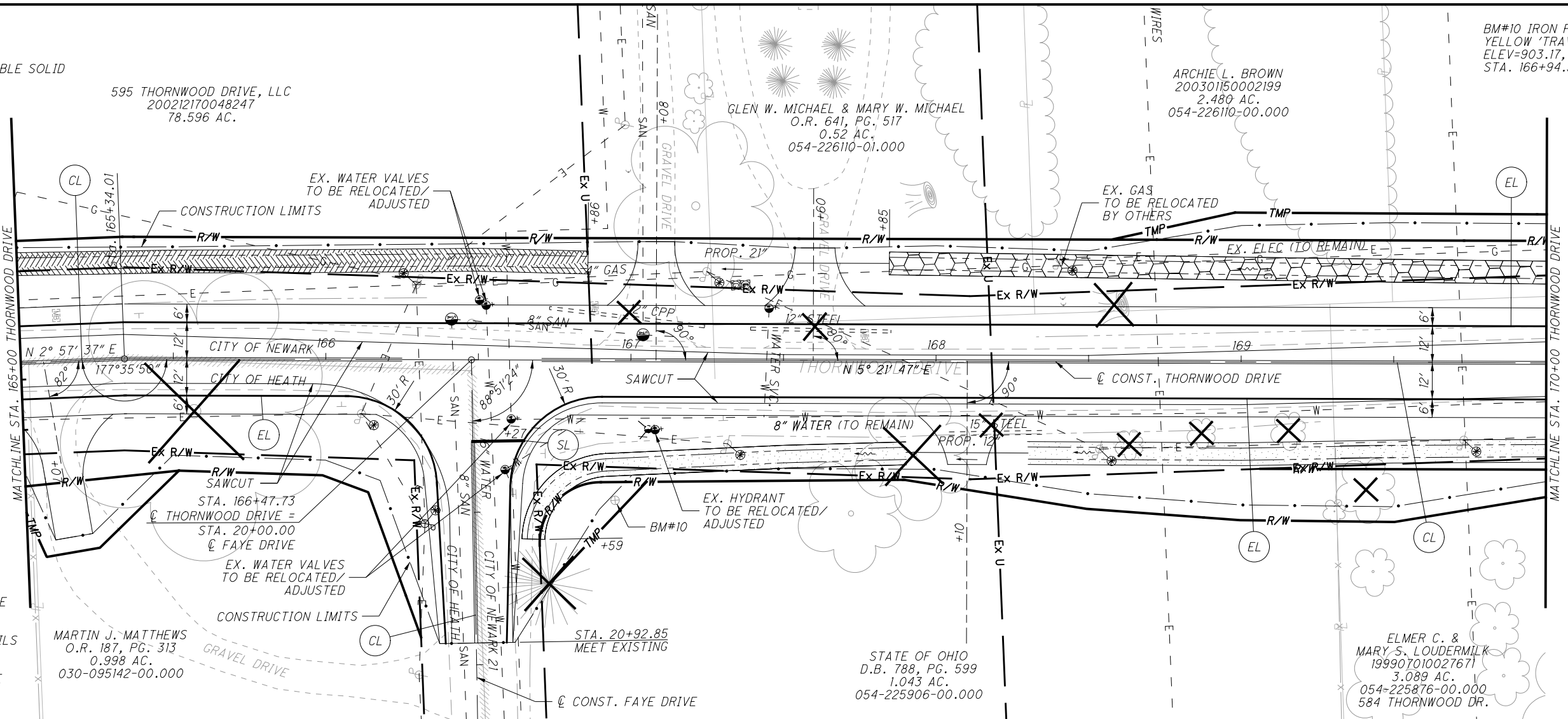
 HORIZONTAL SCALE IN FEET
 CALCULATED: MMB
 CHECKED: JEL

PLAN AND PROFILE - THORNWOOD
STA. 160+00 TO STA. 165+00

LIC-THORNWOOD

LEGEND

-  CL CENTER LINE, DOUBLE SOLID
-  EL EDGE LINE, WHITE
-  SL STOP LINE
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  7.5' WIDE TURF REINFORCING MAT, TYPE 2
-  7.5' WIDE DITCH EROSION PROTECTION
-  X TO BE REMOVED



FOR CROSS SECTIONS SEE SHEETS 188 TO 192
 FOR INTERSECTION DETAILS SEE SHEET 266
 FOR DRIVE PROFILES SEE SHEETS 188 AND 190

MARTIN J. MATTHEWS
 O.R. 187, PG. 313
 0.998 AC.
 030-095142-00.000

STA. 20+92.85
 MEET EXISTING

STATE OF OHIO
 D.B. 788, PG. 599
 1.043 AC.
 054-225906-00.000

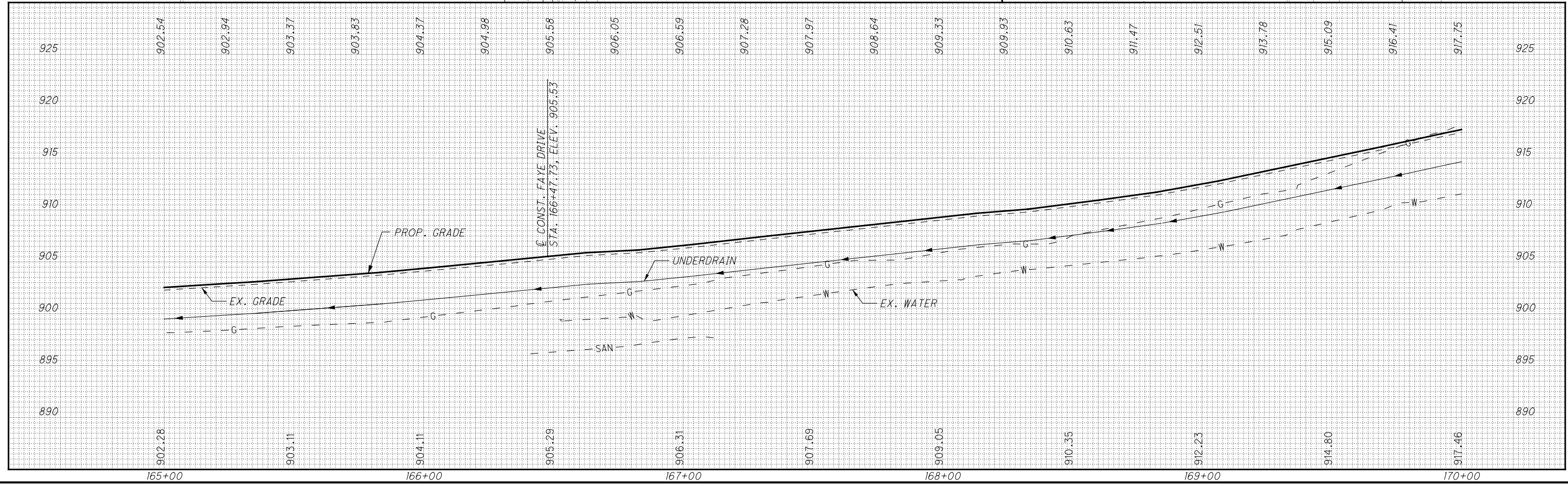
ELMER C. & MARY S. LOUDERMILK
 199907010027671
 3.089 AC.
 054-225876-00.000
 584 THORNWOOD DR.

BM#10 IRON PIN SET WITH YELLOW 'TRAV' CAP
 ELEV=903.17,
 STA. 166+94.94, 45.92' RT



PLAN AND PROFILE - THORNWOOD
STA. 165+00 TO STA. 170+00

LIC-THORNWOOD



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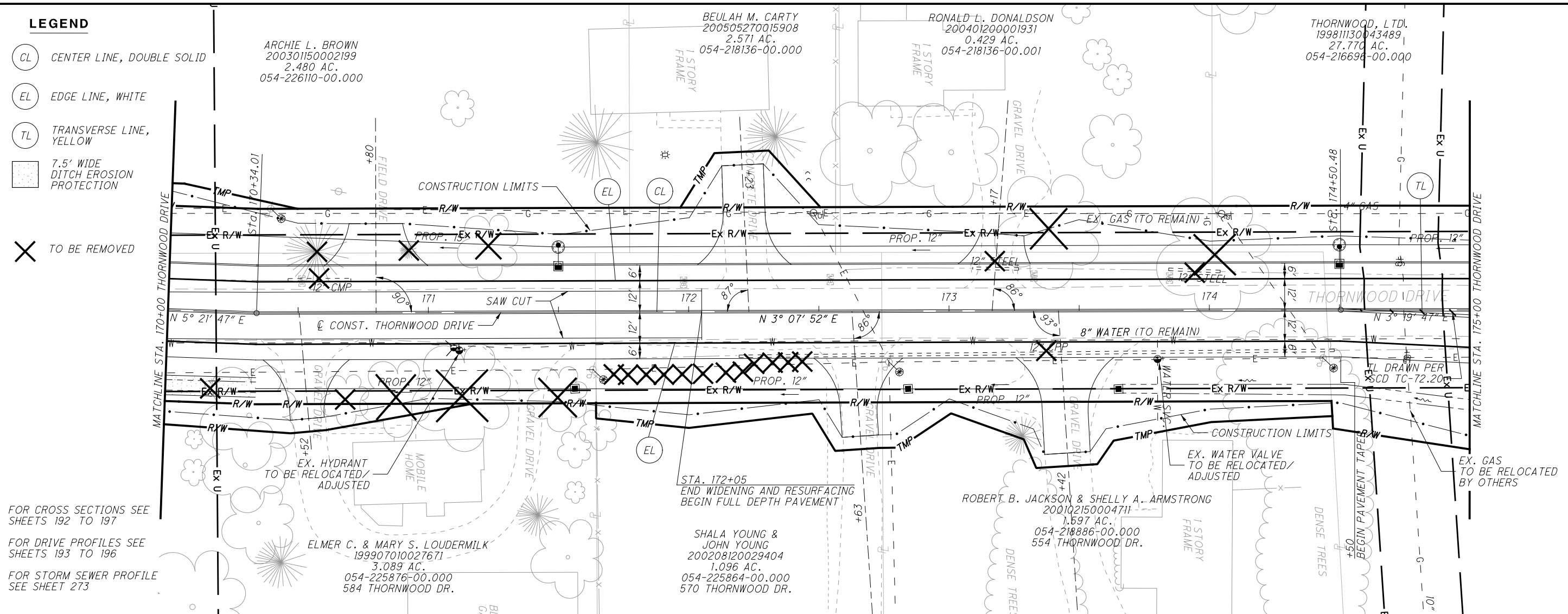
LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- TL TRANSVERSE LINE, YELLOW
- 7.5' WIDE DITCH EROSION PROTECTION
- X TO BE REMOVED

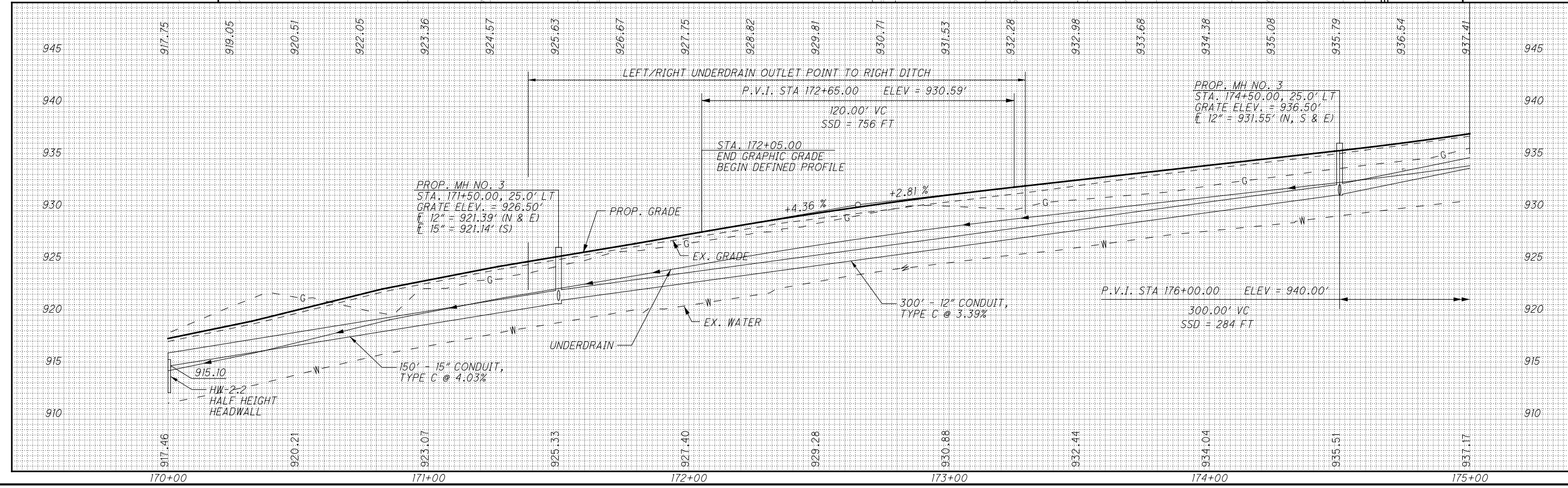


**PLAN AND PROFILE - THORNWOOD
STA. 170+00 TO STA. 175+00**

LIC-THORNWOOD









FOR CROSS SECTIONS SEE SHEETS 192 TO 197
FOR DRIVE PROFILES SEE SHEETS 193 TO 196
FOR STORM SEWER PROFILE SEE SHEET 273

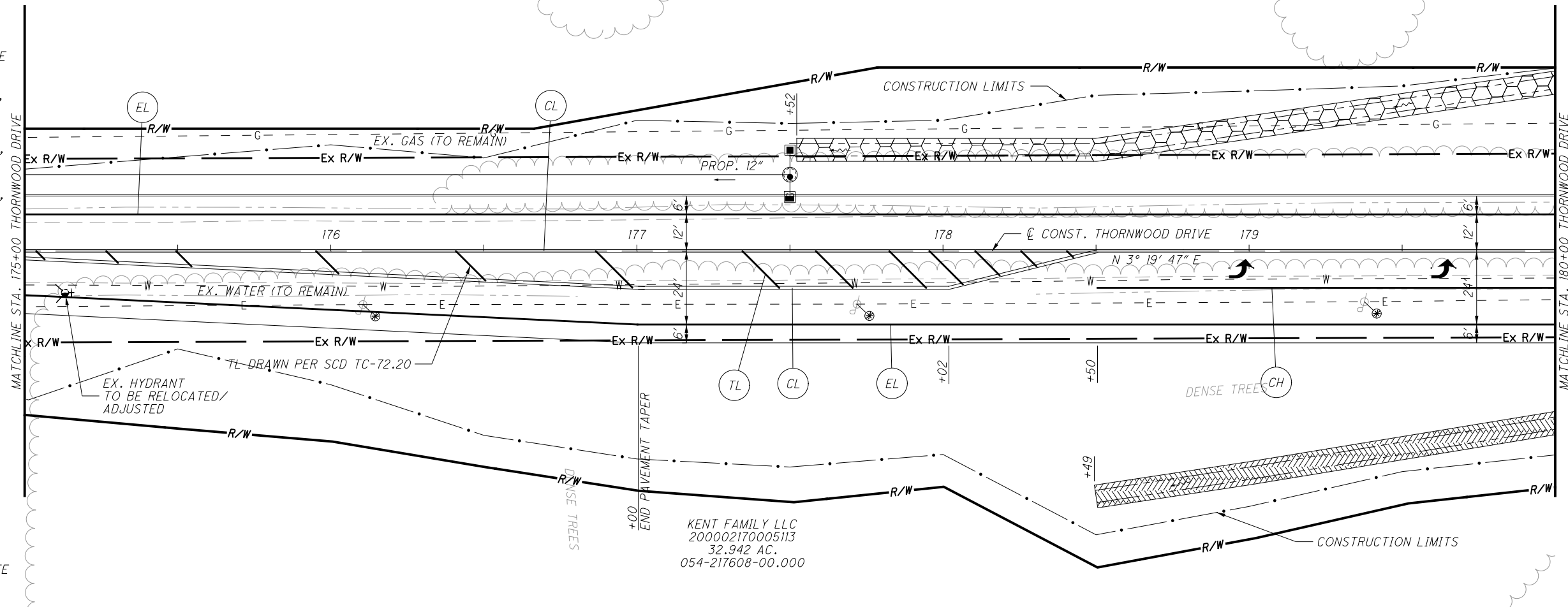


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LEGEND

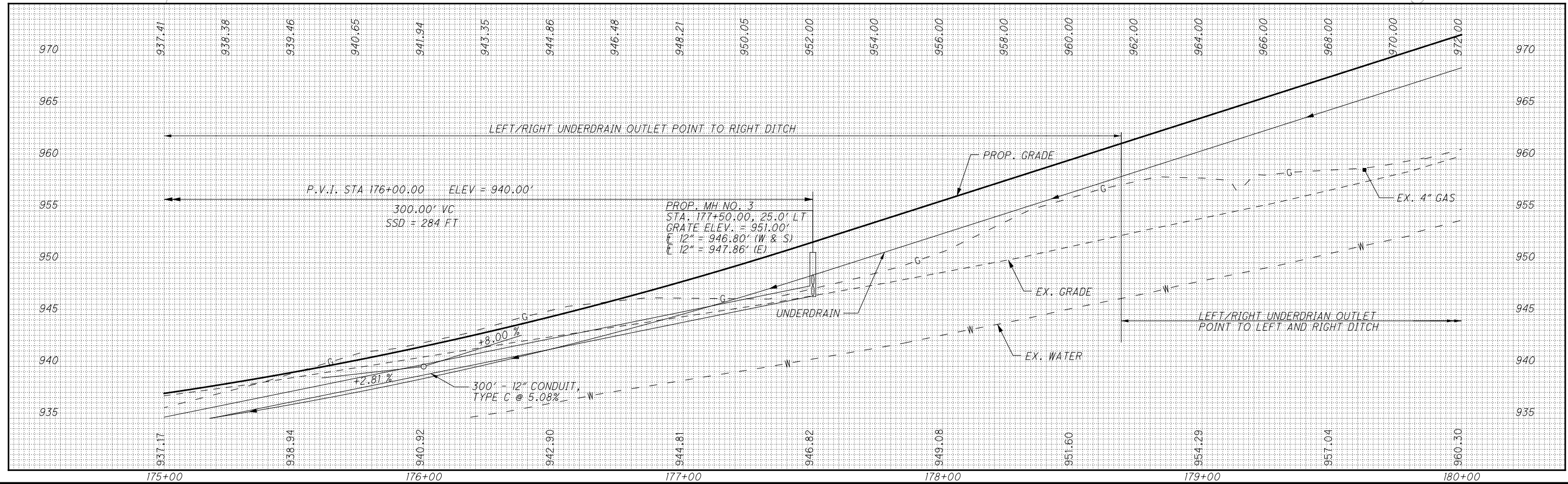
-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  CHANNELIZING LINE
-  TRANSVERSE LINE, YELLOW
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  7.5' WIDE TURF REINFORCING MAT, TYPE 2

THORNWOOD, LTD.
199811130043489
27.770 AC.
054-216696-00.000



FOR CROSS SECTIONS SEE SHEETS 197 TO 201

KENT FAMILY LLC
200002170005113
32.942 AC.
054-217608-00.000





 HORIZONTAL SCALE IN FEET
 CALCULATED: MMB
 CHECKED: JEL

**PLAN AND PROFILE - THORNWOOD
STA. 175+00 TO STA. 180+00**

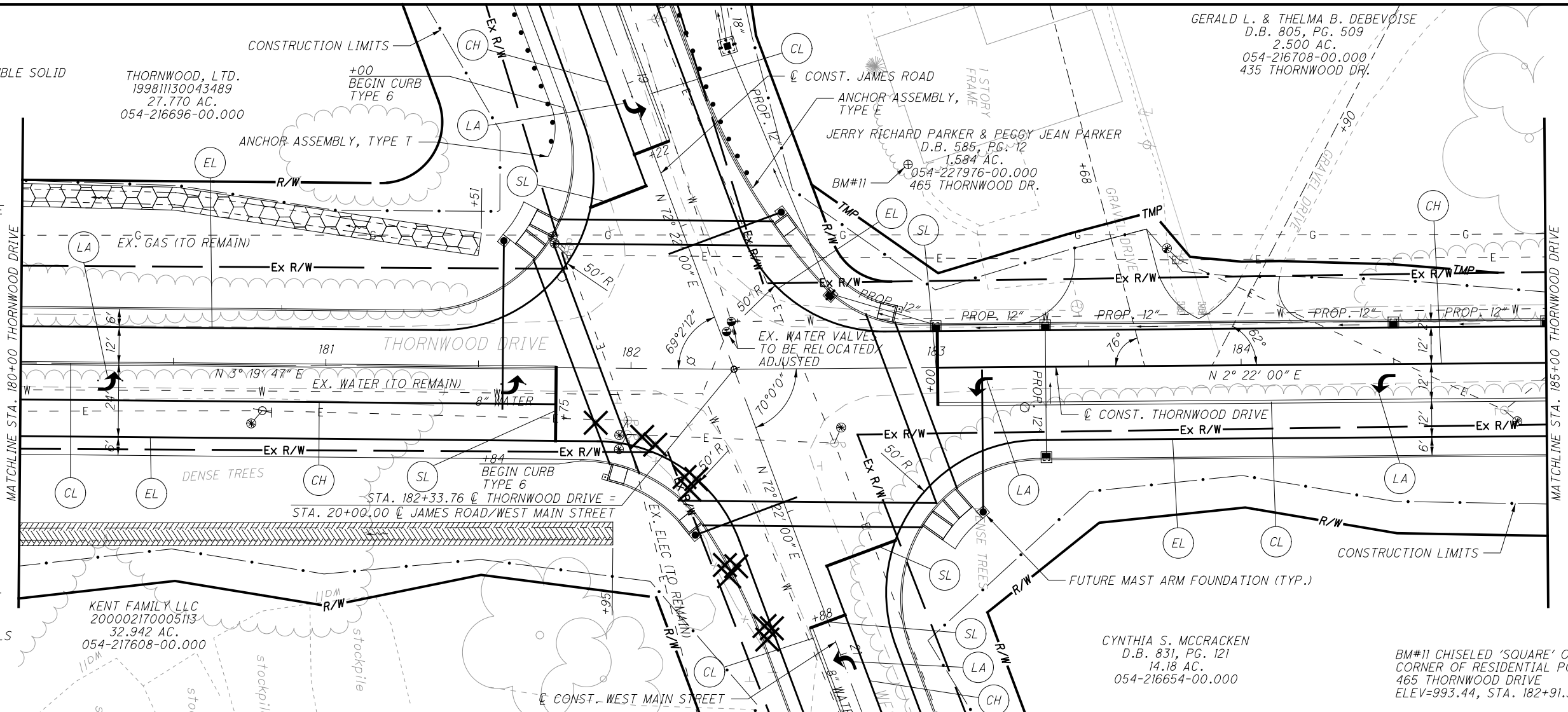
LIC-THORNWOOD

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LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE
- CH CHANNELIZING LINE
- TL TRANSVERSE LINE, YELLOW
- LA LANE ARROW
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1
- 7.5' WIDE TURF REINFORCING MAT, TYPE 2
- X TO BE REMOVED

FOR CROSS SECTIONS SEE SHEETS 201 TO 205
 FOR INTERSECTION DETAILS SEE SHEET 265
 FOR DRIVE PROFILES SEE SHEETS 203 TO 204



GERALD L. & THELMA B. DEBEVOISE
 D.B. 805, PG. 509
 2.500 AC.
 054-216708-00.000
 435 THORNWOOD DR.

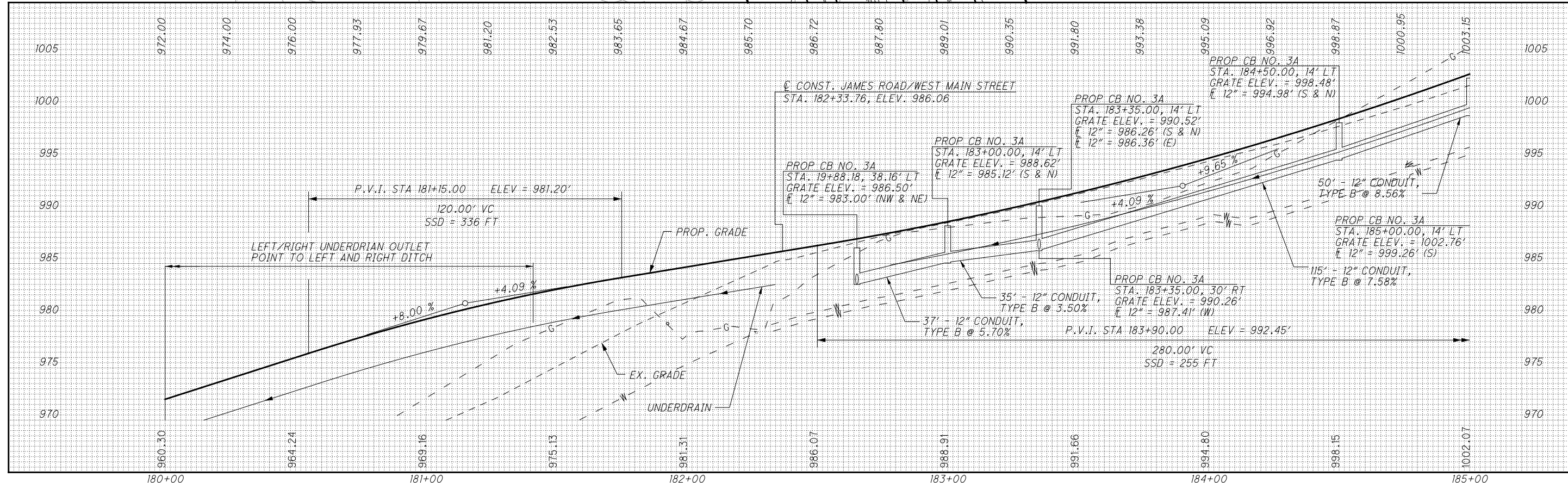
KENT FAMILY LLC
 200002170005113
 32.942 AC.
 054-217608-00.000

CYNTHIA S. MCCrackEN
 D.B. 831, PG. 121
 14.18 AC.
 054-216654-00.000

BM#11 CHISELED 'SQUARE' ON SOUTHEAST CORNER OF RESIDENTIAL PORCH AT 465 THORNWOOD DRIVE ELEV=993.44, STA. 182+91.35, 66.70' LT



**PLAN AND PROFILE - THORNWOOD
 STA. 180+00 TO STA. 185+00**

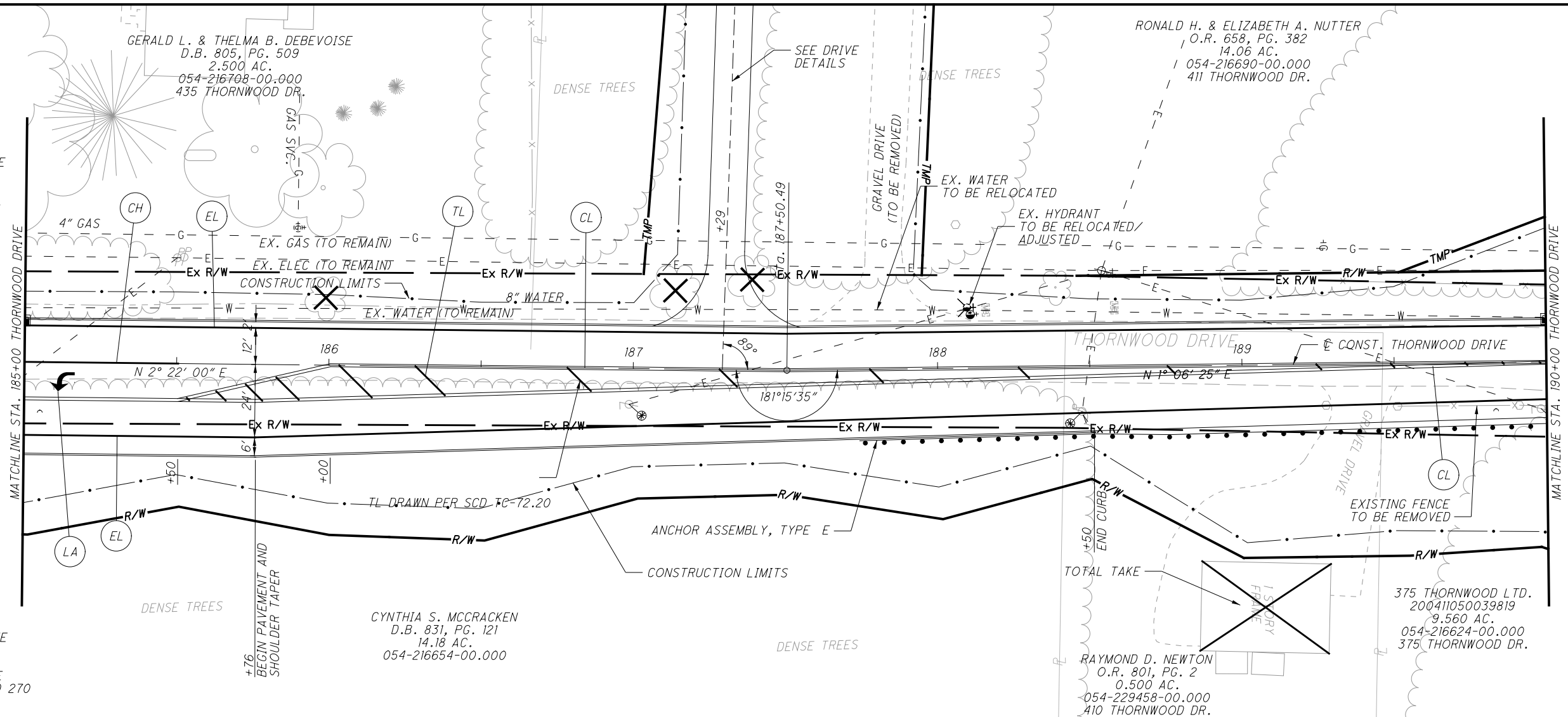


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LIC-THORNWOOD

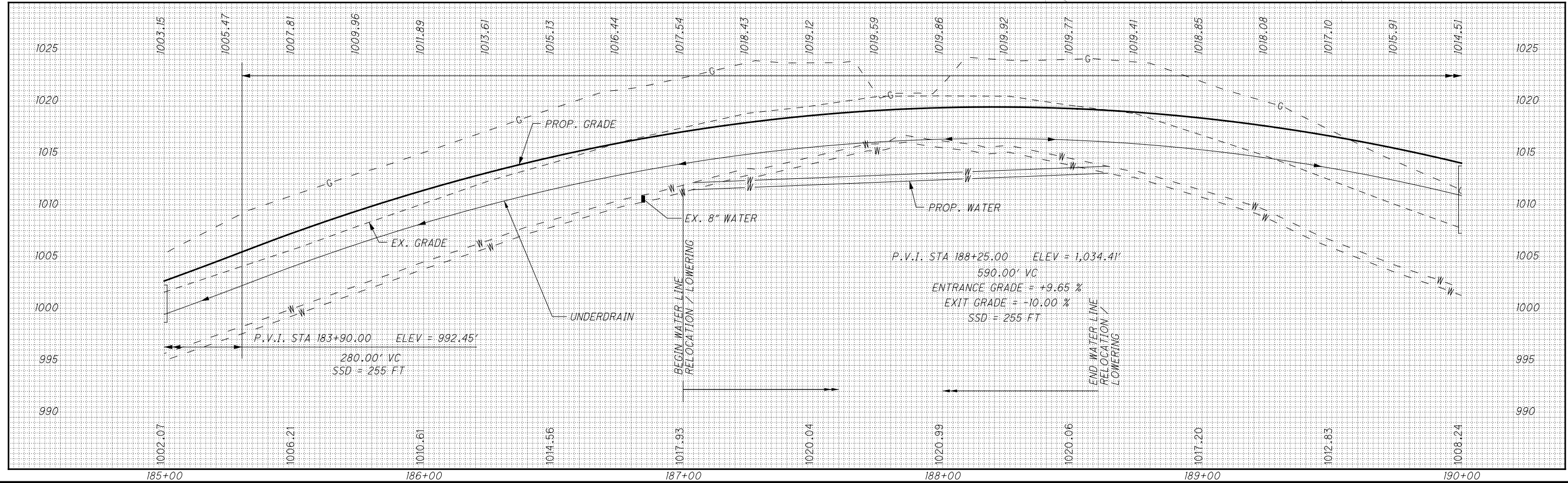
LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- CH CHANNELIZING LINE
- TL TRANSVERSE LINE, YELLOW
- LA LANE ARROW
- X TO BE REMOVED



FOR CROSS SECTIONS SEE SHEETS 205 TO 210

FOR DRIVE PROFILES SEE SHEETS 208 TO 209 AND 270



CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 185+00 TO STA. 190+00**

LIC-THORNWOOD

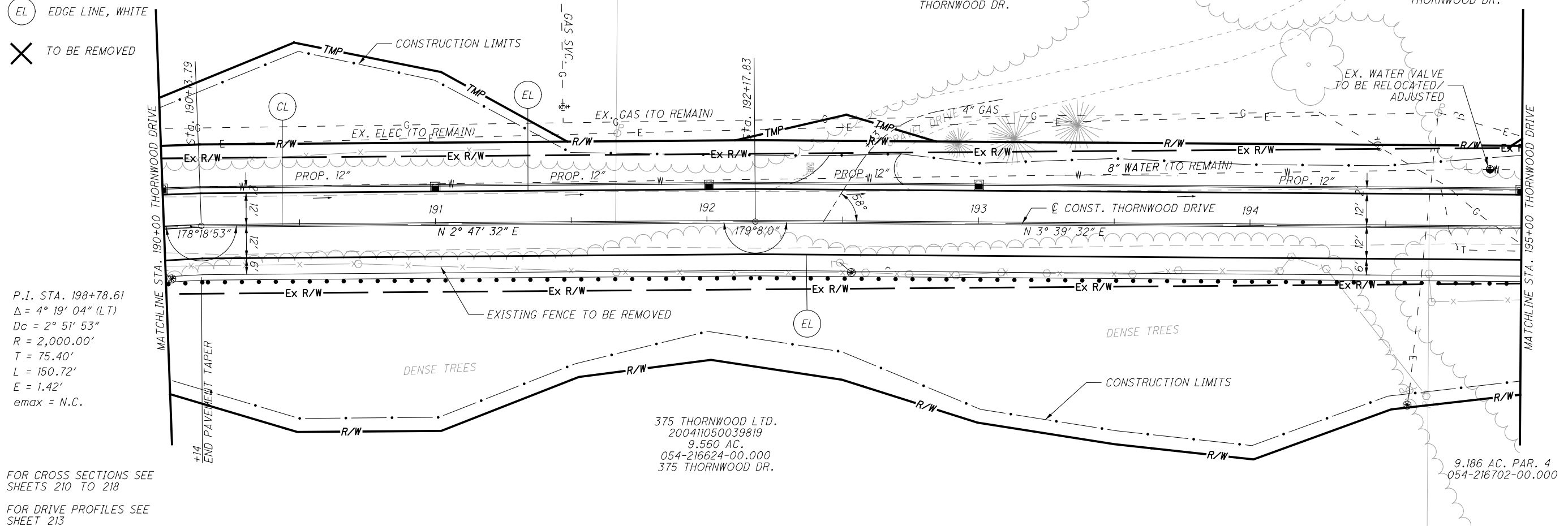
LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- X TO BE REMOVED

RONALD H. & ELIZABETH A. NUTTER
O.R. 658, PG. 382
14.06 AC.
054-216690-00.000
411 THORNWOOD DR.

VIRGINIA J. STONE
200003030006818
11.235 AC.
054-216606-00.000
THORNWOOD DR.

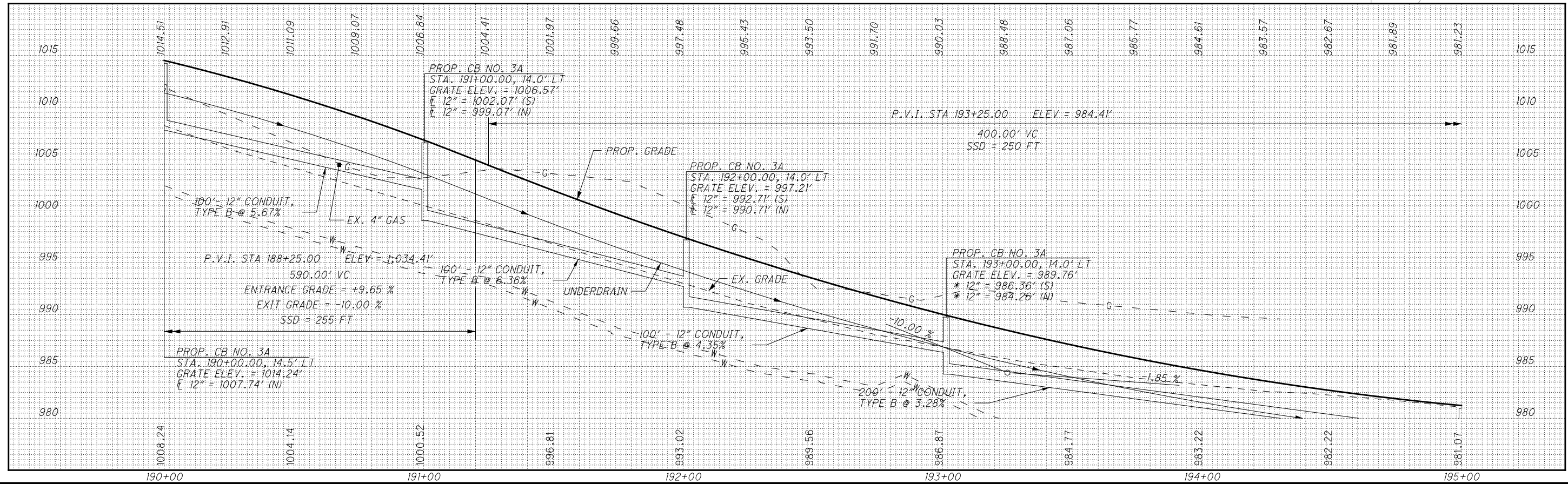
VIRGINIA J. STONE
200003030006818
11.235 AC.
054-216606-00.000
THORNWOOD DR.



P.I. STA. 198+78.61
 $\Delta = 4^\circ 19' 04''$ (LT)
 $D_c = 2^\circ 51' 53''$
 $R = 2,000.00'$
 $T = 75.40'$
 $L = 150.72'$
 $E = 1.42'$
 $e_{max} = N.C.$

FOR CROSS SECTIONS SEE SHEETS 210 TO 218

FOR DRIVE PROFILES SEE SHEET 213





 HORIZONTAL SCALE IN FEET
 CALCULATED MMB
 CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 190+00 TO STA. 195+00**

LIC-THORNWOOD

LEGEND

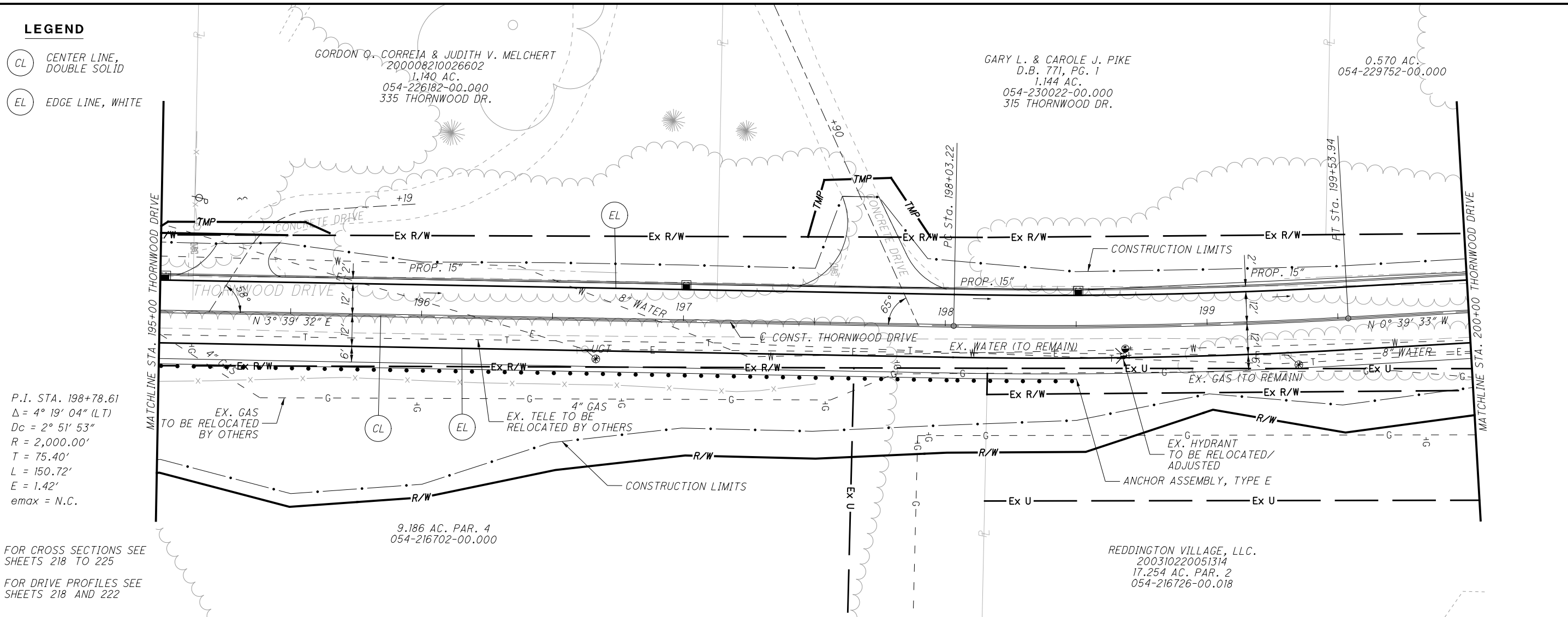
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE



CALCULATED	MIMB	CHECKED	JEL
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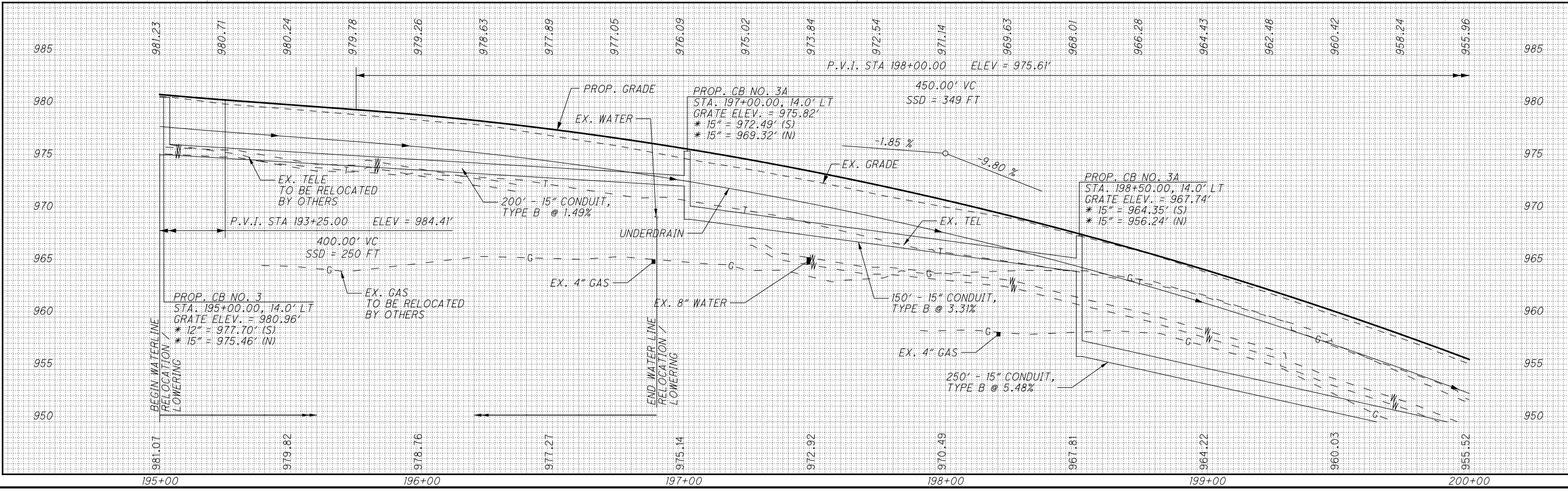
**PLAN AND PROFILE - THORNWOOD
STA. 195+00 TO STA. 200+00**

LIC-THORNWOOD



P.I. STA. 198+78.61
 $\Delta = 4^\circ 19' 04''$ (LT)
 $D_c = 2^\circ 51' 53''$
 $R = 2,000.00'$
 $T = 75.40'$
 $L = 150.72'$
 $E = 1.42'$
 $e_{max} = N.C.$

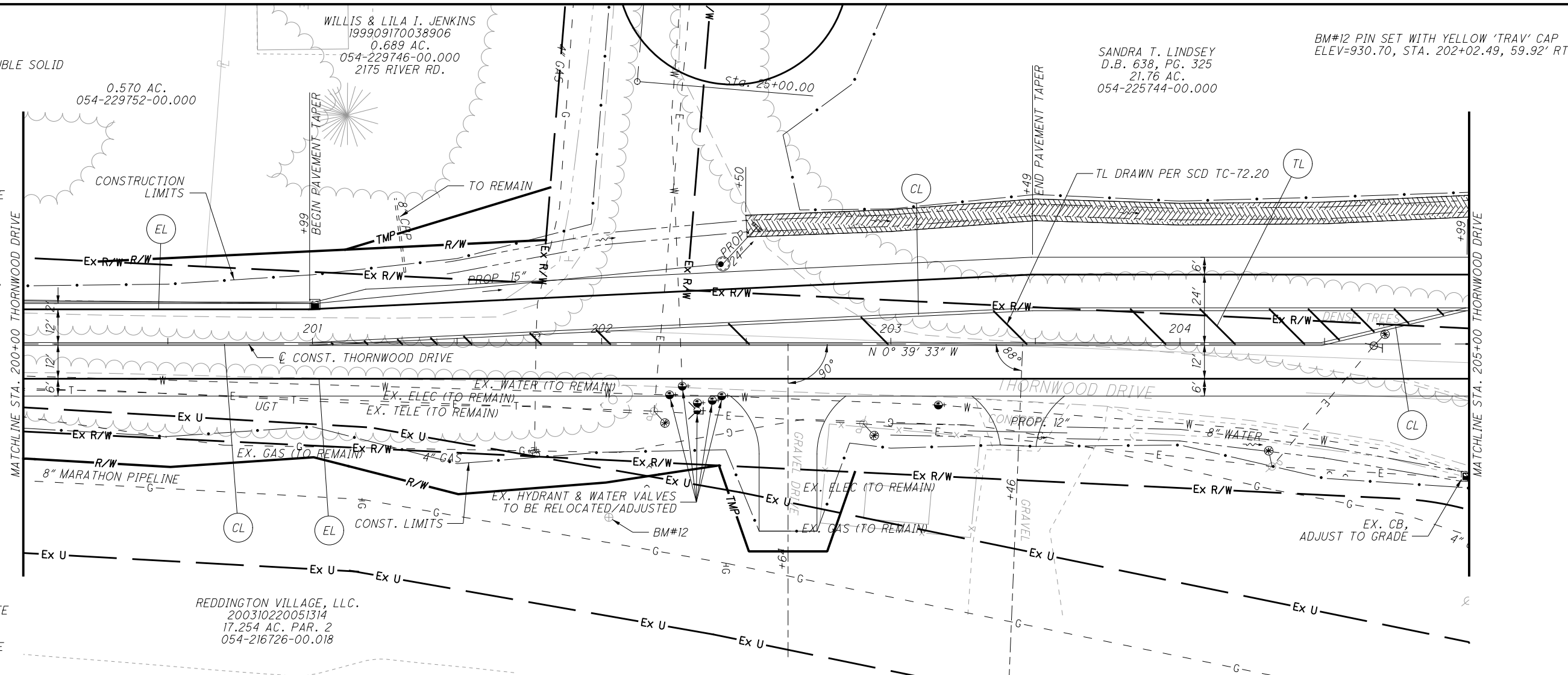
FOR CROSS SECTIONS SEE SHEETS 218 TO 225
 FOR DRIVE PROFILES SEE SHEETS 218 AND 222



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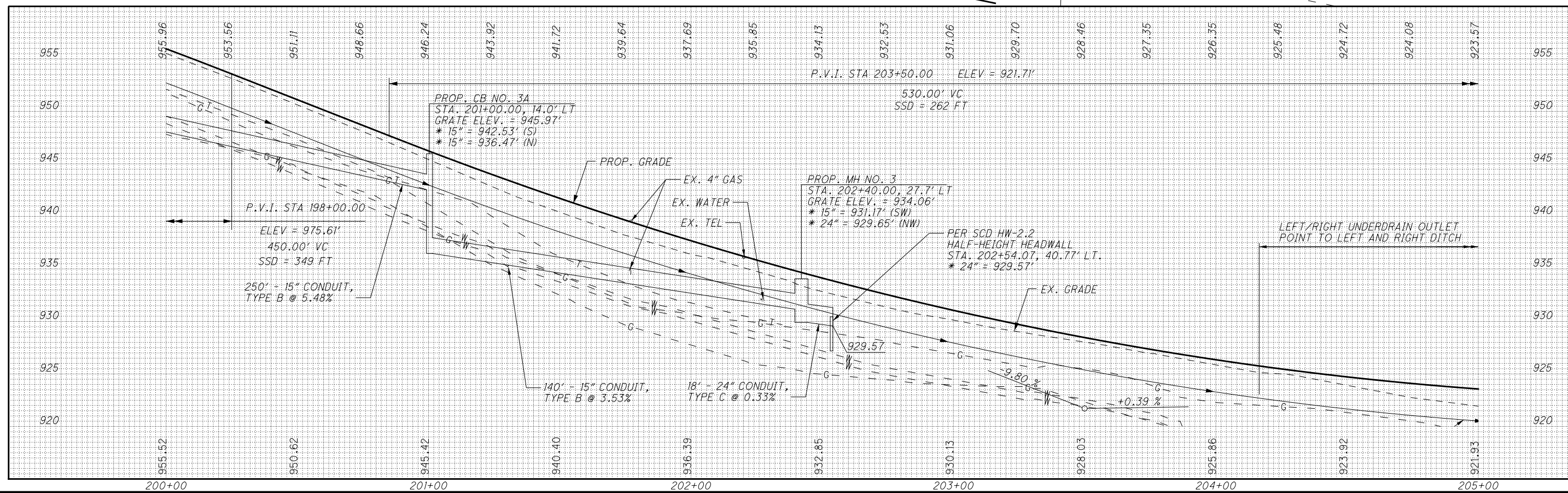
LEGEND

- (CL) CENTER LINE, DOUBLE SOLID
- (EL) EDGE LINE, WHITE
- (SL) STOP LINE
- (CH) CHANNELIZING LINE
- (TL) TRANSVERSE LINE, YELLOW
- [Hatched Box] 7.5' WIDE TURF REINFORCING MAT, TYPE 1



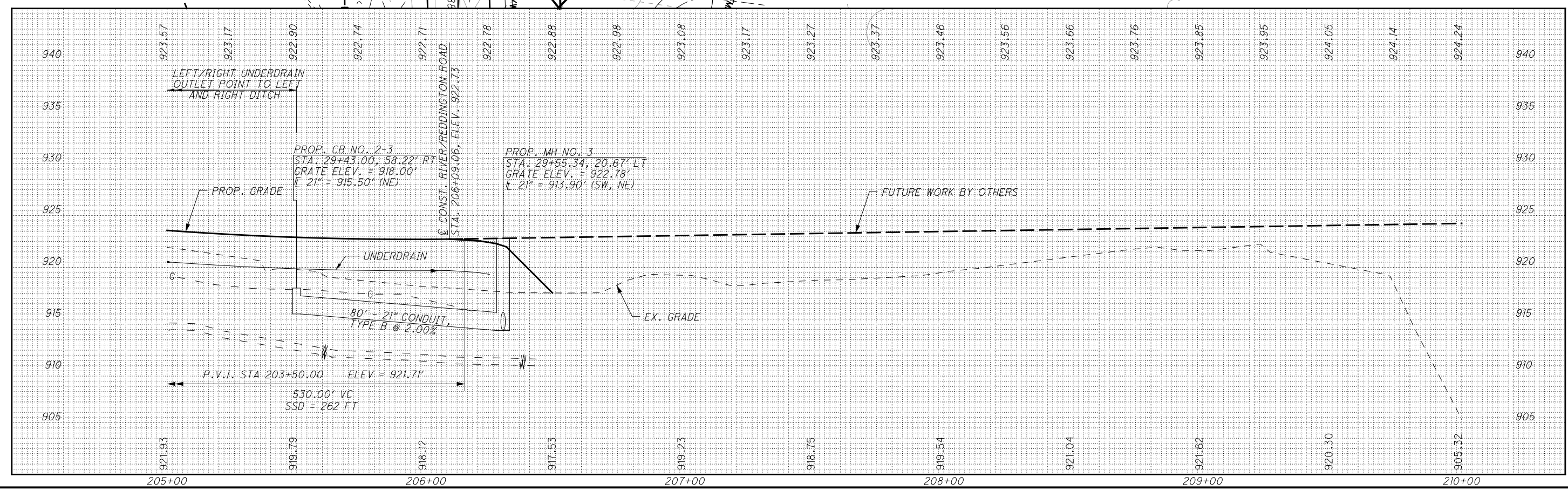
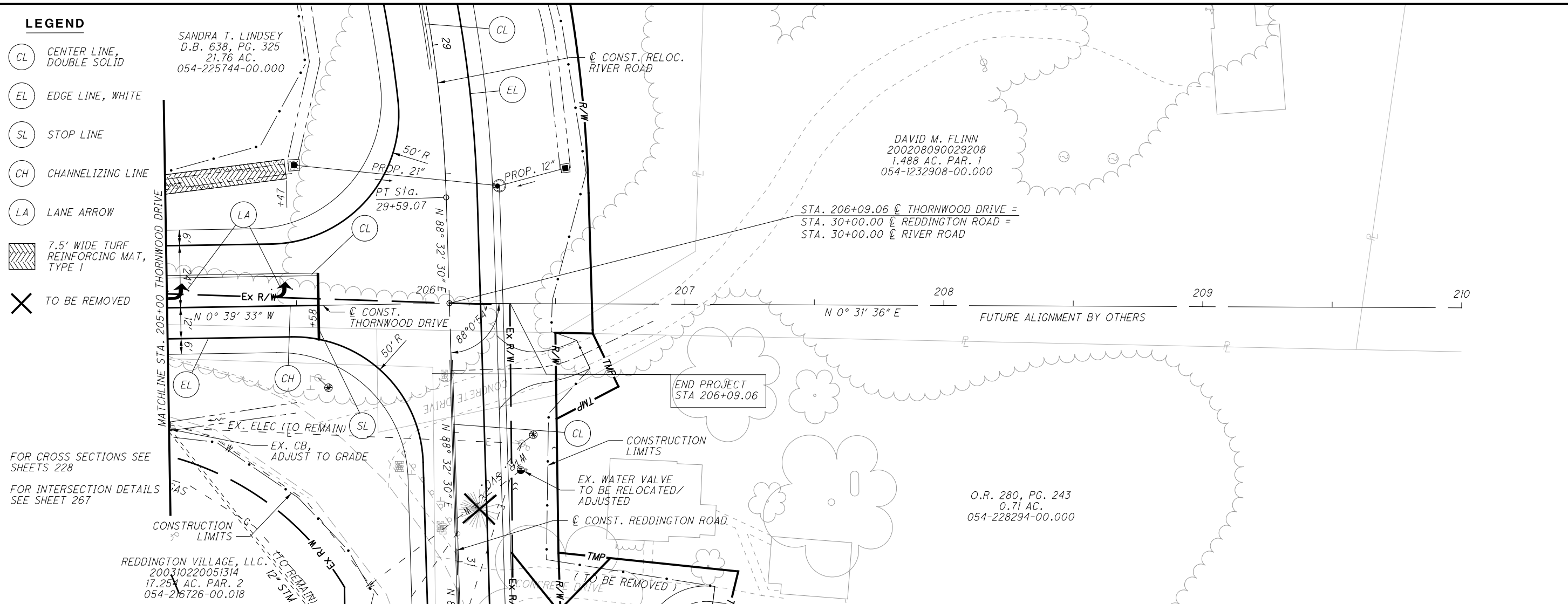
FOR CROSS SECTIONS SEE SHEETS 225 TO 228
FOR DRIVE PROFILES SEE SHEET 227

REDDINGTON VILLAGE, LLC.
200310220051314
17.254 AC. PAR. 2
054-216726-00.018



CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 200+00 TO STA. 205+00**



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- LEGEND**
- (CL) CENTER LINE, DOUBLE SOLID
 - (EL) EDGE LINE, WHITE
 - (SL) STOP LINE
 - (CH) CHANNELIZING LINE
 - (LA) LANE ARROW
 - [Hatched Box] 7.5' WIDE TURF REINFORCING MAT, TYPE 1
 - (X) TO BE REMOVED

FOR CROSS SECTIONS SEE SHEETS 228
 FOR INTERSECTION DETAILS SEE SHEET 267

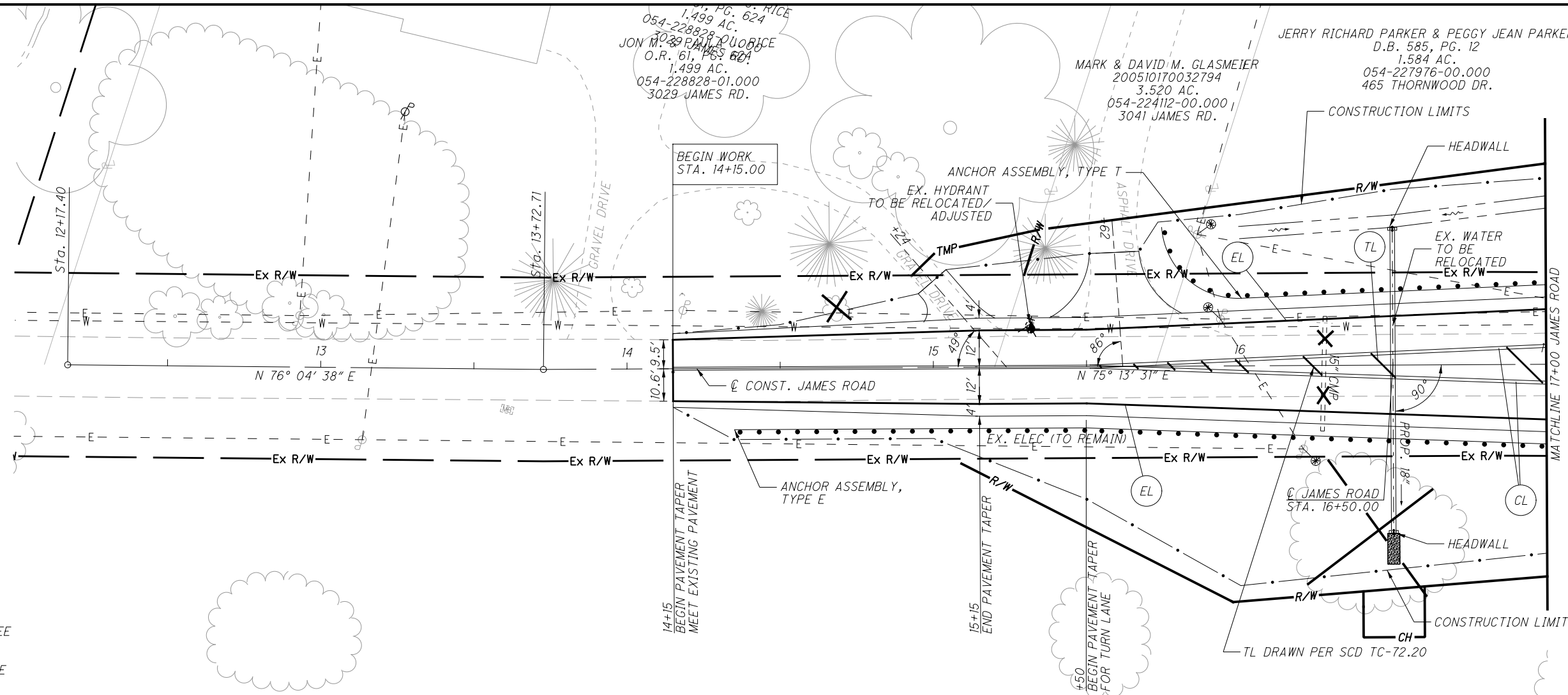
0 20 40
 HORIZONTAL SCALE IN FEET

CALCULATED MMB CHECKED JEL

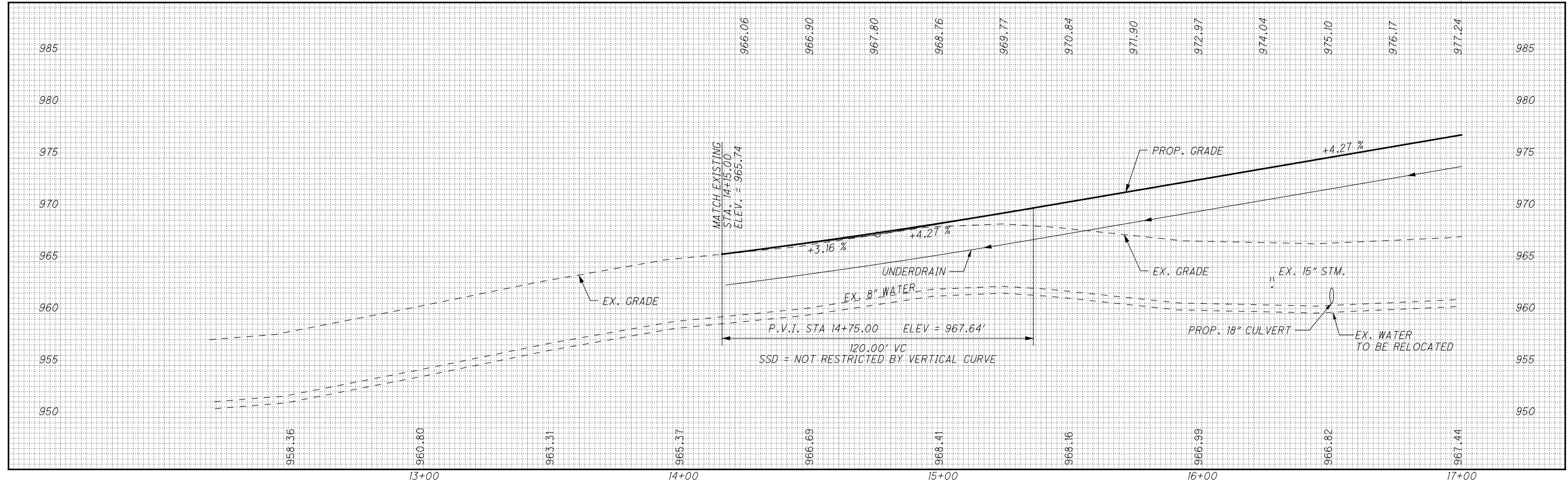
PLAN AND PROFILE - THORNWOOD
STA. 205+00 TO STA. 210+00

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- TL TRANSVERSE LINE, YELLOW
- X TO BE REMOVED



FOR CROSS SECTIONS SEE SHEETS 234 TO 236
 FOR DRIVE PROFILES SEE SHEET 235




 0 20 40
 HORIZONTAL SCALE IN FEET
 CALCULATED MMB
 CHECKED JEL

**PLAN AND PROFILE - JAMES / WEST MAIN
 STA. 12+17 TO STA. 17+00**

LIC-THORNWOOD


LEGEND

- (CL) CENTER LINE, DOUBLE SOLID
- (EL) EDGE LINE, WHITE
- (SL) STOP LINE
- (CH) CHANNELIZING LINE
- (TL) TRANSVERSE LINE, YELLOW
- (LA) LANE ARROW
- [Hatched Box] 7.5' WIDE TURF REINFORCING MAT, TYPE 1
- [Cross-hatched Box] 7.5' WIDE TURF REINFORCING MAT, TYPE 2
- (X) TO BE REMOVED

P.I. STA. 18+01.51
 $\Delta = 2^\circ 51' 32''$ (LT)
 $D_c = 2^\circ 51' 53''$
 $R = 2,000.00'$
 $T = 49.91'$
 $L = 99.79'$
 $E = 0.62'$
 $e_{max} = N.C.$

FOR CROSS SECTIONS SEE SHEETS 236 TO 240

FOR INTERSECTION DETAILS SEE SHEET 265

FOR DRIVE PROFILES SEE SHEET 239

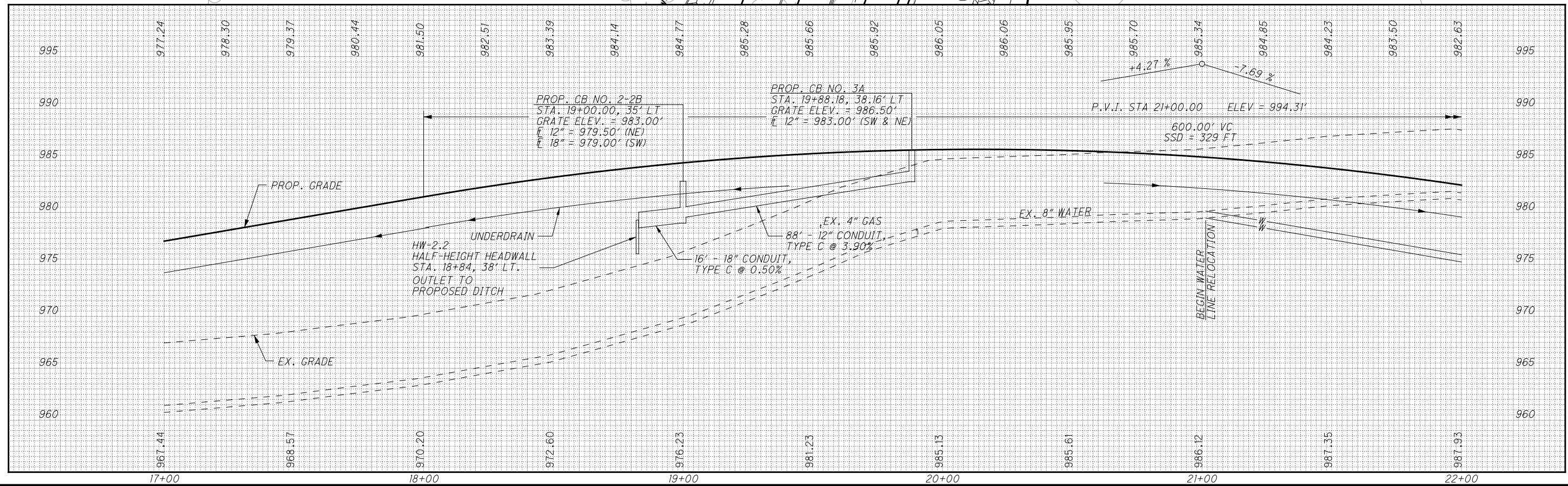
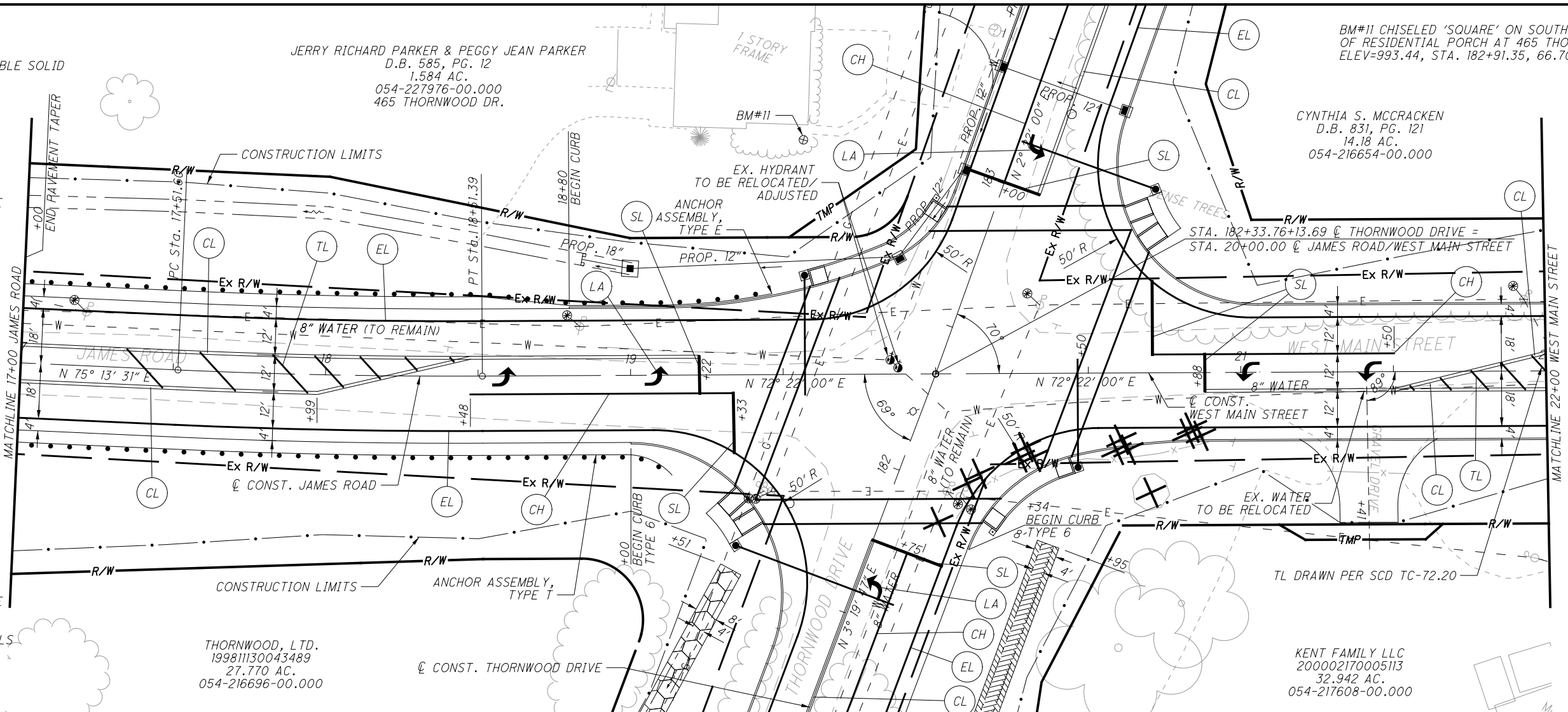
JERRY RICHARD PARKER & PEGGY JEAN PARKER
 D.B. 585, PG. 12
 1.584 AC.
 054-227976-00.000
 465 THORNWOOD DR.

BM#11 CHISELED 'SQUARE' ON SOUTHEAST CORNER OF RESIDENTIAL PORCH AT 465 THORNWOOD DRIVE ELEV=993.44, STA. 182+91.35, 66.70' LT

CYNTHIA S. MCCrackEN
 D.B. 831, PG. 121
 14.18 AC.
 054-216654-00.000

THORNWOOD, LTD.
 19981130043489
 27.770 AC.
 054-216696-00.000

KENT FAMILY LLC
 200002170005113
 32.942 AC.
 054-217608-00.000



PLAN AND PROFILE - JAMES / WEST MAIN
STA. 17+00 TO STA. 22+00

LIC-THORNWOOD
 61
 288

FOR CROSS SECTIONS SEE SHEETS 240 TO 245

CYNTHIA S. MCCrackEN
D.B. 831, PG. 121
14.18 AC.
054-216654-00.000



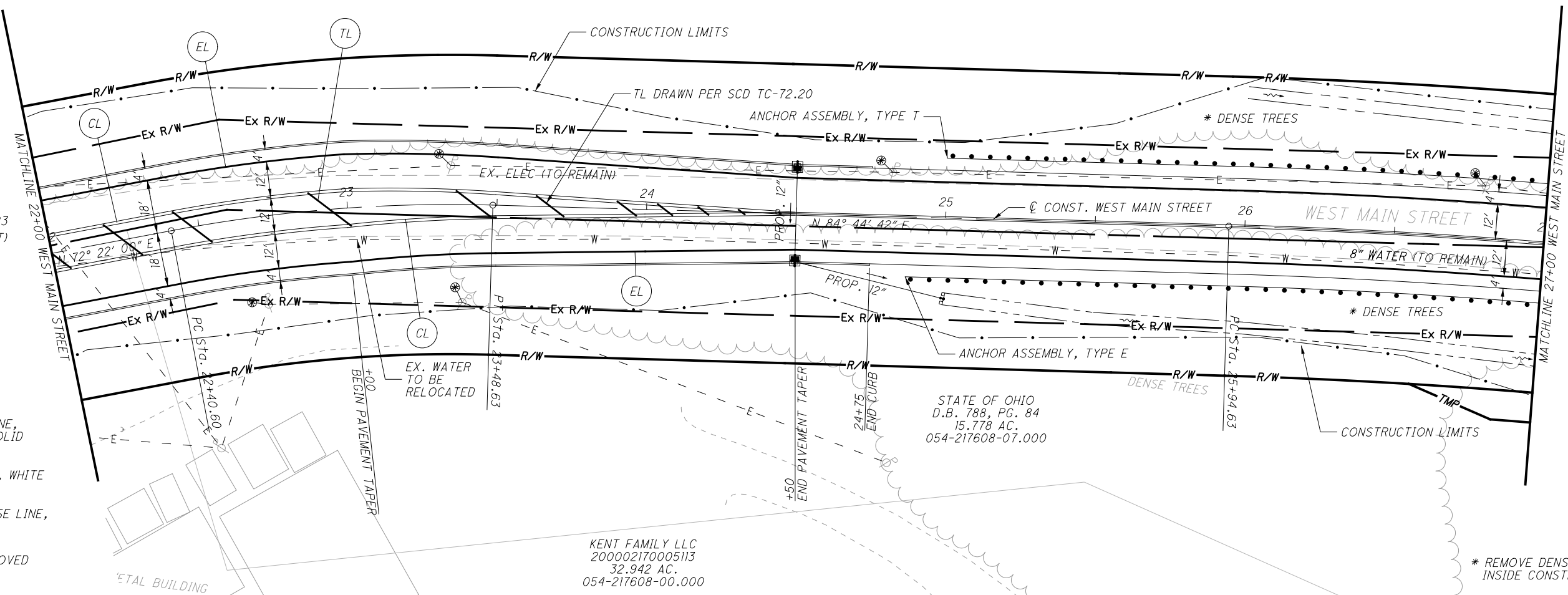
PLAN AND PROFILE - JAMES / WEST MAIN STA. 22+00 TO STA. 27+00

LIC-THORNWOOD

P.I. STA. 22+94.83
 $\Delta = 12^\circ 22' 42''$ (RT)
 $D_c = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 54.22'$
 $L = 108.02'$
 $E = 2.93'$
 $e_{max} = N.C.$

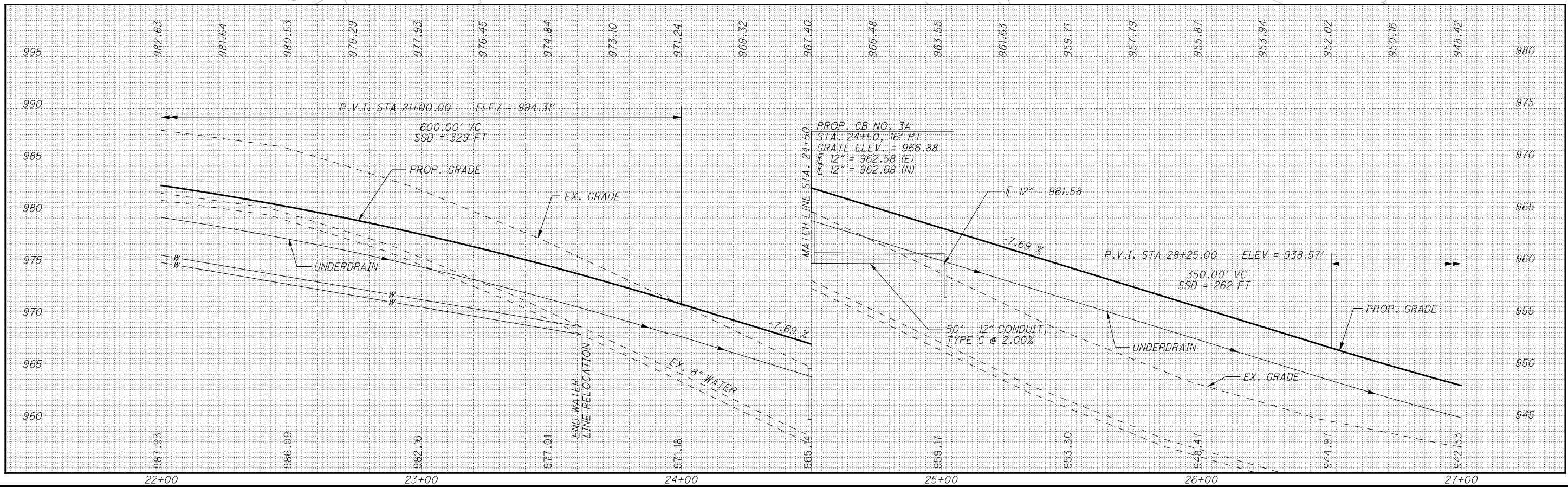
LEGEND

- CENTER LINE, DOUBLE SOLID
- EDGE LINE, WHITE
- TRANSVERSE LINE, YELLOW
- TO BE REMOVED



KENT FAMILY LLC
200002170005113
32.942 AC.
054-217608-00.000

* REMOVE DENSE TREES INSIDE CONSTRUCTION LIMITS



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0 10 20 30 40
HORIZONTAL
SCALE IN FEET

CALCULATED
MIMB
CHECKED
JEL

PLAN AND PROFILE - JAMES / WEST MAIN
STA. 27+00 TO STA. 32+00

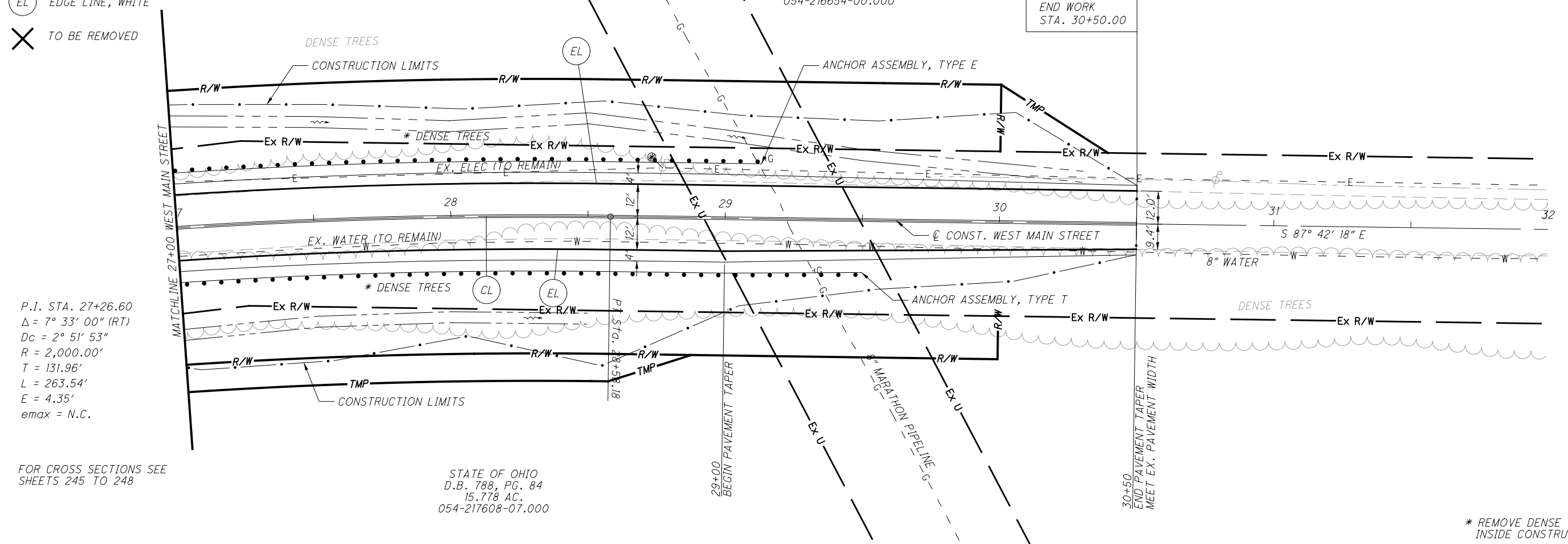
LIC-THORNWOOD

63
288

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- X TO BE REMOVED

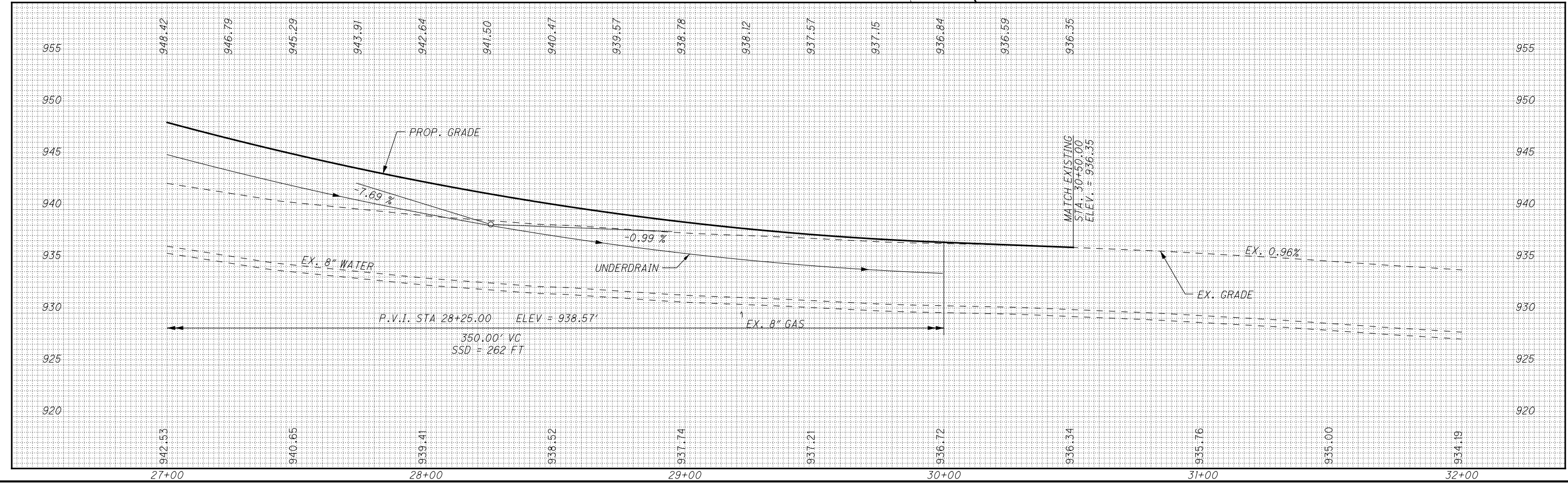
CYNTHIA S. MCCrackEN
D.B. 831, PG. 121
14.18 AC.
054-216654-00.000



P.I. STA. 27+26.60
 $\Delta = 7^\circ 33' 00''$ (RT)
 $D_c = 2^\circ 51' 53''$
 $R = 2,000.00'$
 $T = 131.96'$
 $L = 263.54'$
 $E = 4.35'$
 $emax = N.C.$

STATE OF OHIO
D.B. 788, PG. 84
15.778 AC.
054-217608-07.000

* REMOVE DENSE TREES
INSIDE CONSTRUCTION LIMITS



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LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE

4 M, LTD.
200711300030657
1.50 AC.
56-045684-00.000

SANDRA T. LINDSEY
DEED BOOK 717, PAGE 828
4.75 AC.
54-225738-00.000

HAROLD L. HAYNES AND
BESSIE RUTH HAYNES
DEED BOOK 565, PAGE 56
1.126 AC.
54-223872-00.000

HAROLD L. HAYNES AND
BESSIE RUTH HAYNES
DEED BOOK 592, PAGE 729
1 AC.
54-223866-00.000

JON KARL RESSLER AND TINA M. RESSLER
200107180025818
3.948 AC.
54-218628-00.000

W. RAY CLODFELTER
O.R. VOL. 563, PAGE 266
1.3672 AC.
54-216618-00.000

FOR CROSS SECTIONS SEE
SHEETS 249 TO 253

FOR INTERSECTION DETAILS
SEE SHEET 266

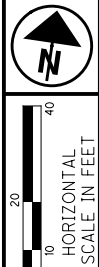
FOR DRIVE PROFILES SEE
SHEETS 249 AND 251

FOR DRAINAGE DETAILS
SEE SHEET 286

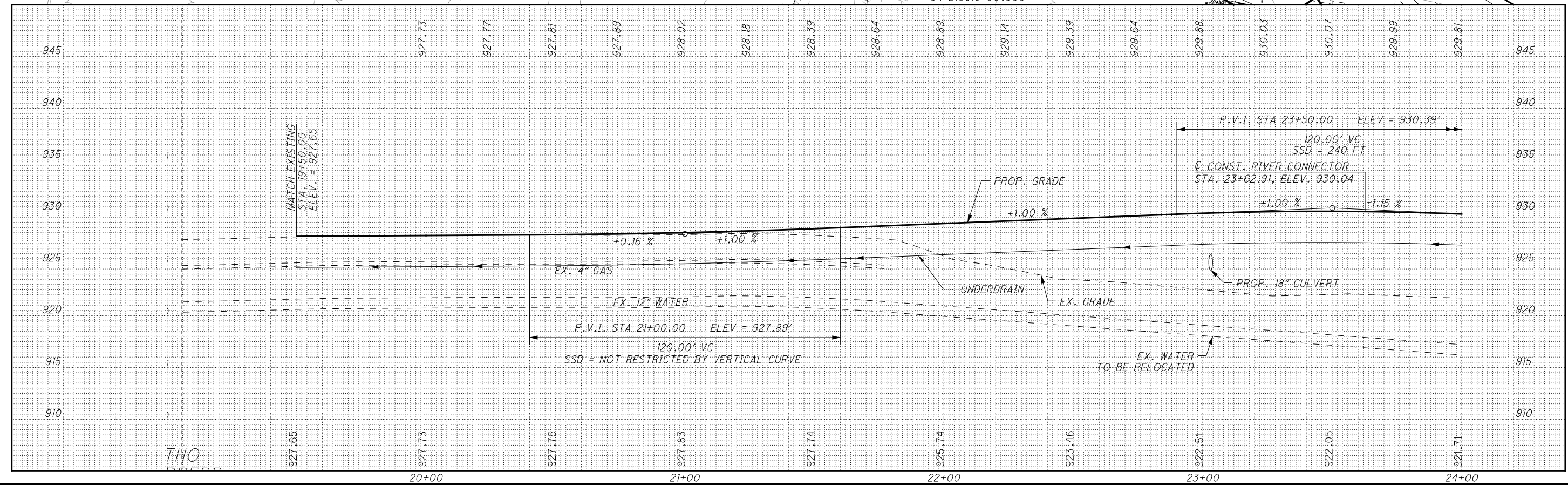
X TO BE REMOVED

P.I. STA. 22+86.71
 $\Delta = 46^\circ 52' 30''$ (LT)
 $Dc = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 216.76'$
 $L = 409.06'$
 $E = 44.96'$
 $emax = 0.04$

P.I. STA. 20+97.69
 $\Delta = 56^\circ 25' 46''$ (LT)
 $Dc = 38^\circ 11' 50''$
 $R = 150.00'$
 $T = 80.48'$
 $L = 147.73'$
 $E = 20.23'$
 $emax = N.C.$



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**PLAN AND PROFILE - RELOC. RIVER/REDDINGTON
STA. 19+05 TO STA. 24+00**

LIC-THORNWOOD
64
288

LEGEND

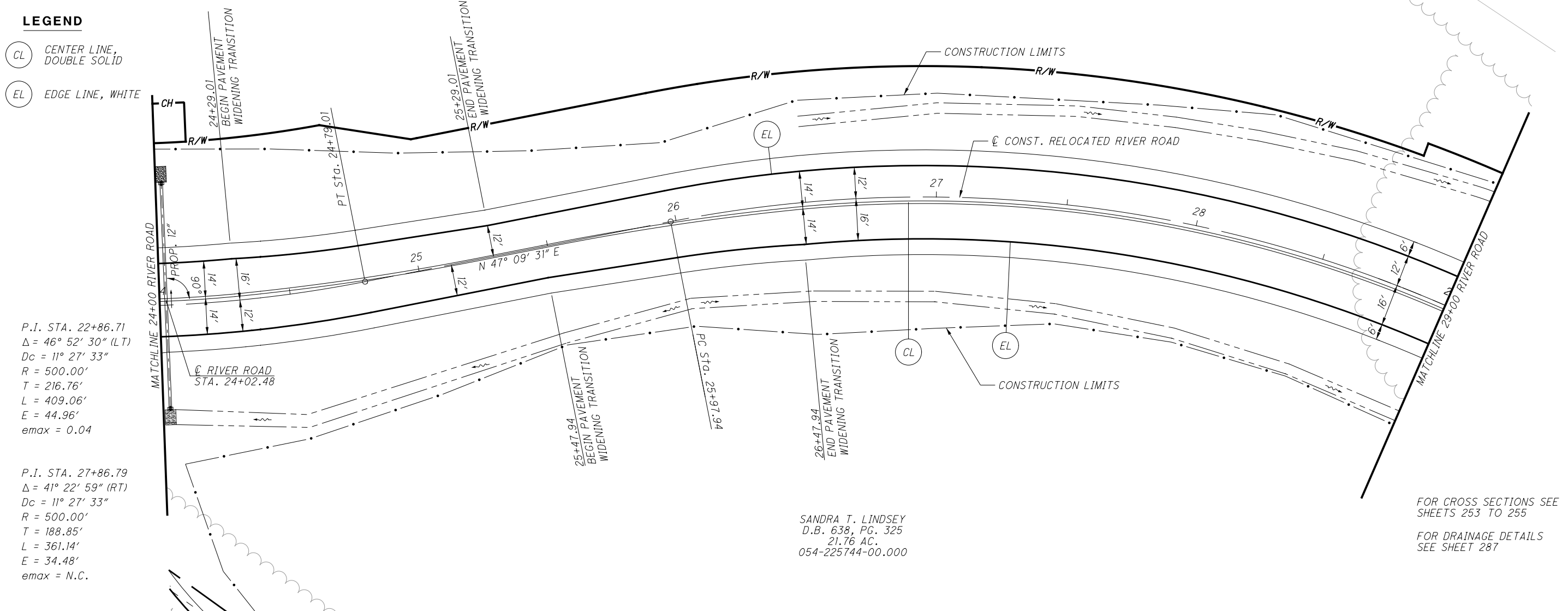
- (CL) CENTER LINE, DOUBLE SOLID
- (EL) EDGE LINE, WHITE



CALCULATED MMB
CHECKED JEL

PLAN AND PROFILE - RELOC. RIVER / REDDINGTON STA. 24+00 TO STA. 29+00

LIC-THORNWOOD

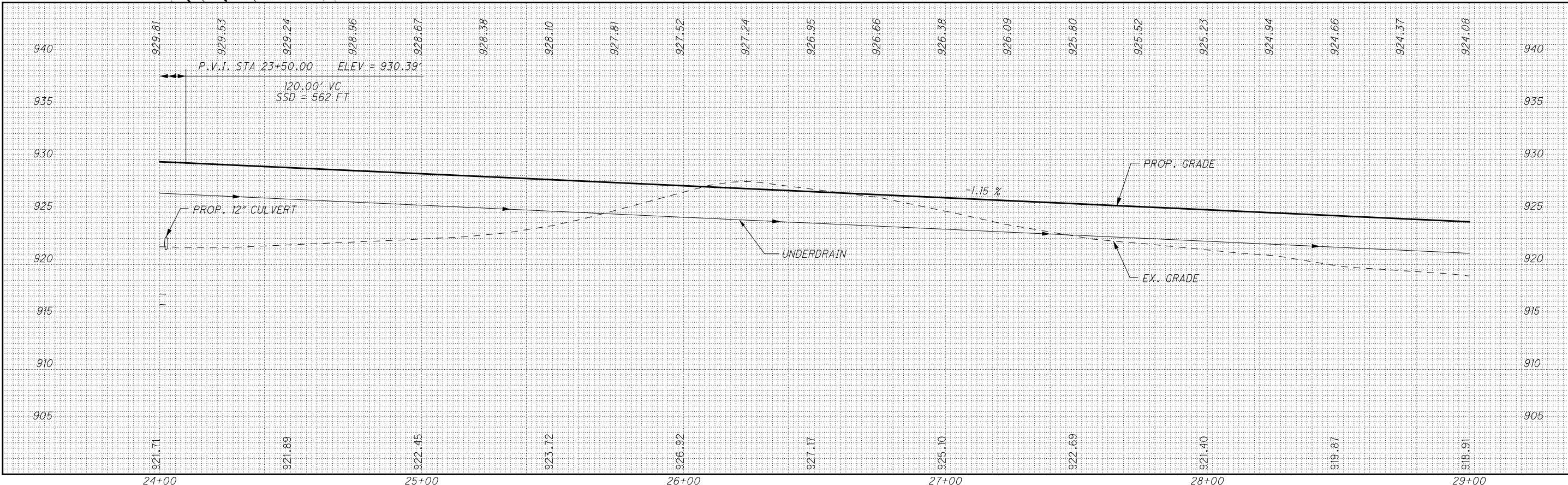


P.I. STA. 22+86.71
 $\Delta = 46^\circ 52' 30''$ (LT)
 $D_c = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 216.76'$
 $L = 409.06'$
 $E = 44.96'$
 $emax = 0.04$

P.I. STA. 27+86.79
 $\Delta = 41^\circ 22' 59''$ (RT)
 $D_c = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 188.85'$
 $L = 361.14'$
 $E = 34.48'$
 $emax = N.C.$

SANDRA T. LINDSEY
 D.B. 638, PG. 325
 21.76 AC.
 054-225744-00.000

FOR CROSS SECTIONS SEE SHEETS 253 TO 255
 FOR DRAINAGE DETAILS SEE SHEET 287



FOR CROSS SECTIONS SEE SHEETS 255 TO 258

FOR INTERSECTION DETAILS SEE SHEET 267

FOR DRIVE PROFILES SEE SHEET 271

LEGEND

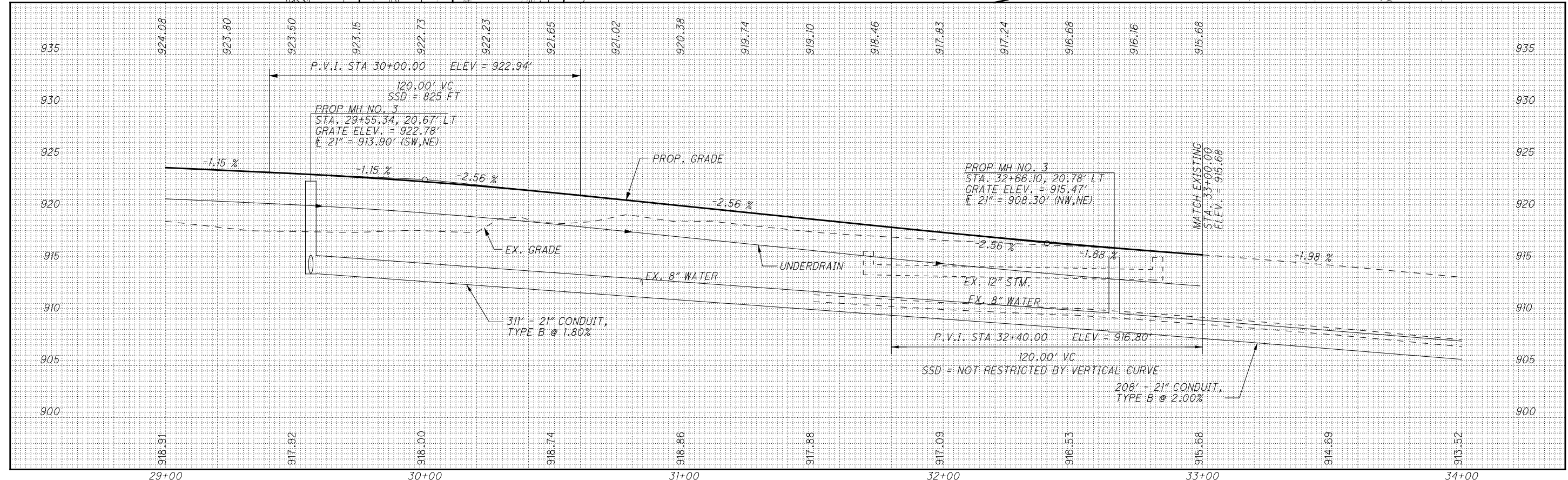
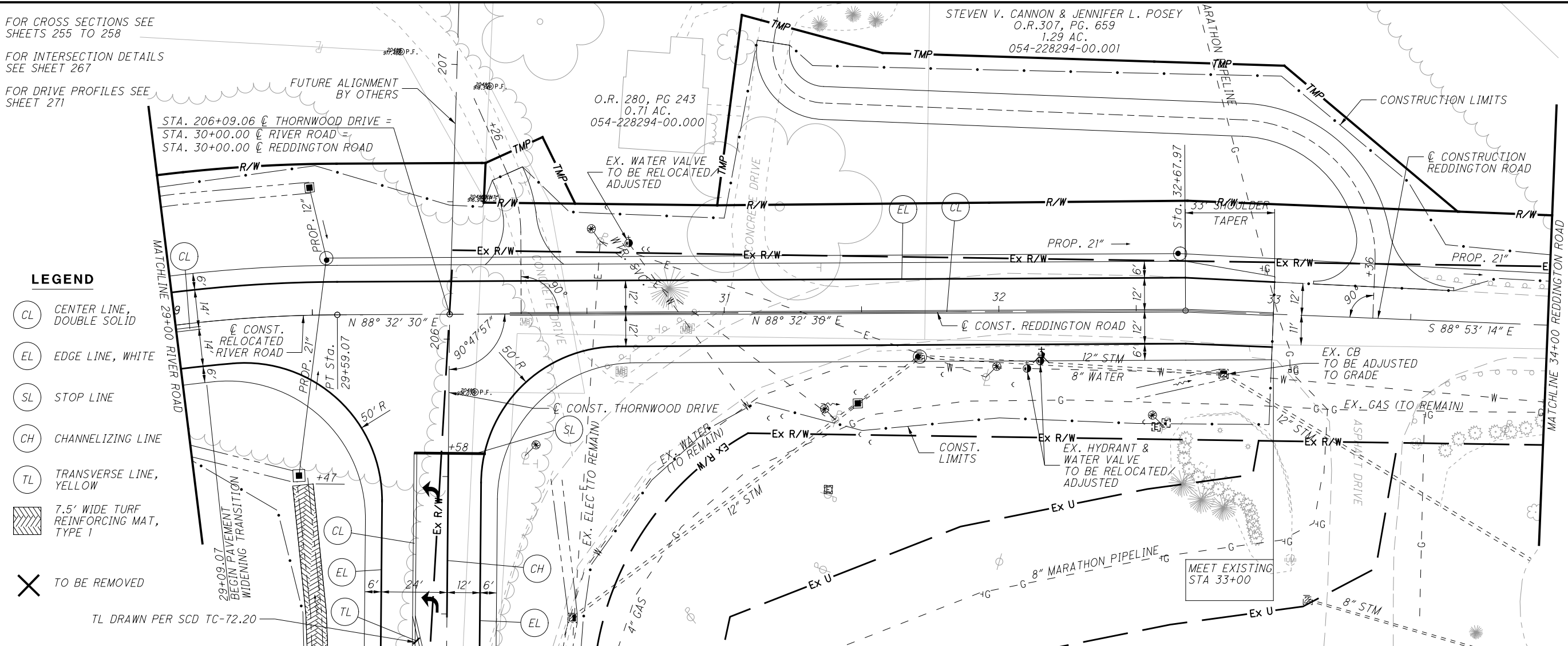
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE
- CH CHANNELIZING LINE
- TL TRANSVERSE LINE, YELLOW
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1
- X TO BE REMOVED

TL DRAWN PER SCD TC-72.20

STEVEN V. CANNON & JENNIFER L. POSEY
O.R.307, PG. 659
1.29 AC.
054-228294-00.001

O.R. 280, PG 243
0.71 AC.
054-228294-00.000

EX. WATER VALVE TO BE RELOCATED ADJUSTED



CALCULATED MMB CHECKED JEL

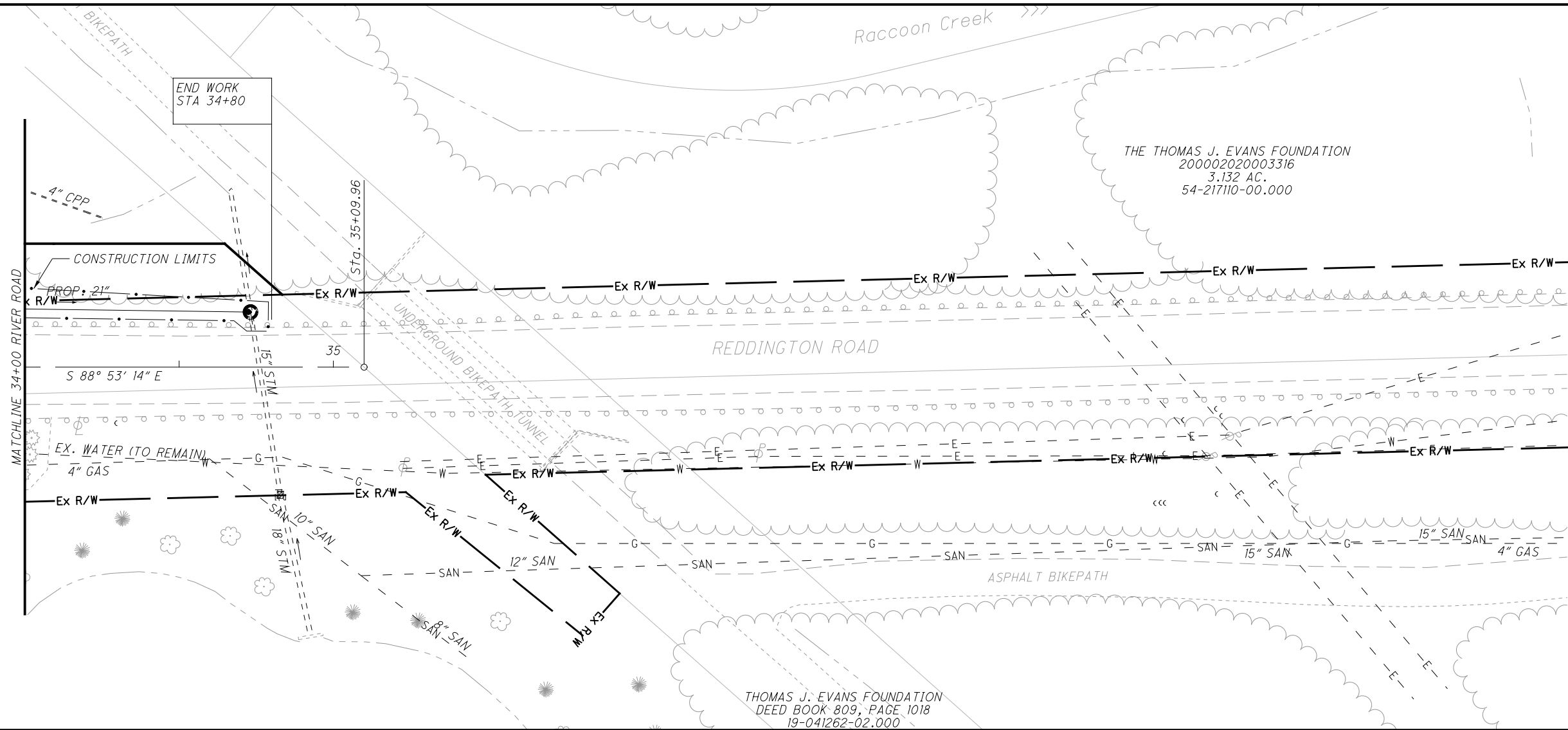
0 10 20 40
HORIZONTAL SCALE IN FEET

PLAN AND PROFILE - RELOC. RIVER/REDDINGTON STA. 29+00 TO STA. 34+00

LIC-THORNWOOD

66
288

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PLAN AND PROFILE - REDDINGTON ROAD
STA. 34+00 TO STA. 35+10

LIC-THORNWOOD

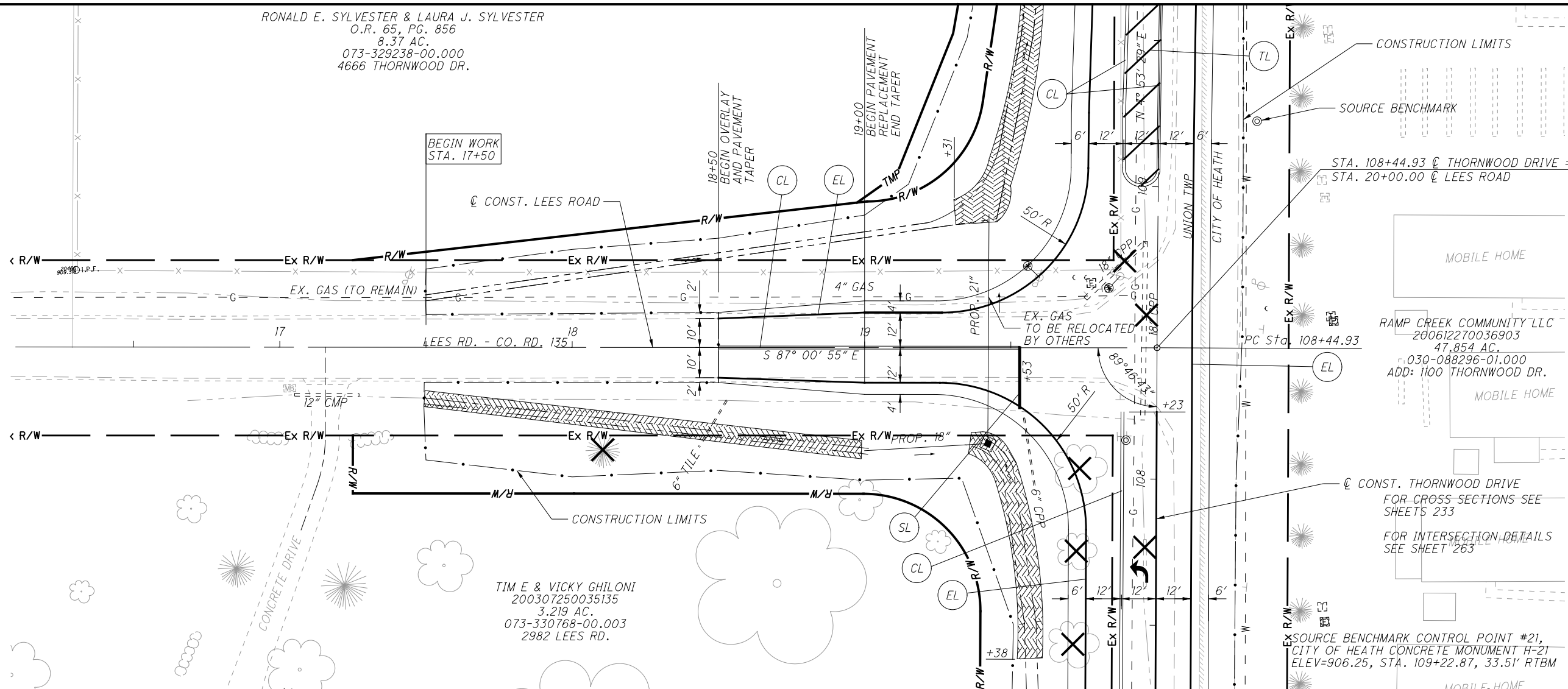
P.I. STA. 109+78.03
 $\Delta = 1^\circ 41' 07''$ (RT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 133.10'$
 $L = 266.18'$
 $E = 0.98'$
 $emax = N.C.$

P.I. STA. 109+56.49
 $\Delta = 1^\circ 24' 45''$ (RT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 111.56'$
 $L = 223.12'$
 $E = 0.69'$
 $emax = N.C.$

LEGEND

- CENTER LINE, DOUBLE SOLID
- EDGE LINE, WHITE
- STOP LINE
- CHANNELIZING LINE
- TRANSVERSE LINE, YELLOW
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1
- TO BE REMOVED

RONALD E. SYLVESTER & LAURA J. SYLVESTER
 O.R. 65, PG. 856
 8.37 AC.
 073-329238-00.000
 4666 THORNWOOD DR.



TIM E & VICKY GHILONI
 200307250035135
 3.219 AC.
 073-330768-00.003
 2982 LEES RD.

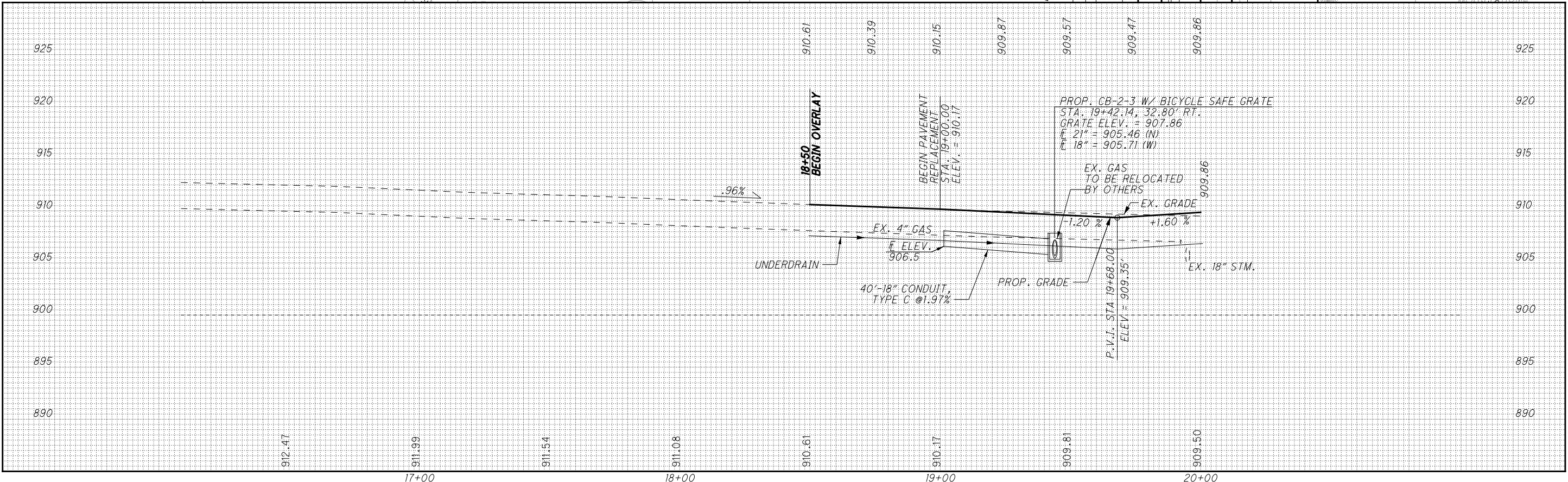
RAMP CREEK COMMUNITY LLC
 200612270036903
 47.854 AC.
 030-088296-01.000
 ADD: 1100 THORNWOOD DR.

CONST. THORNWOOD DRIVE
 FOR CROSS-SECTIONS SEE SHEETS 233
 FOR INTERSECTION DETAILS SEE SHEET 263

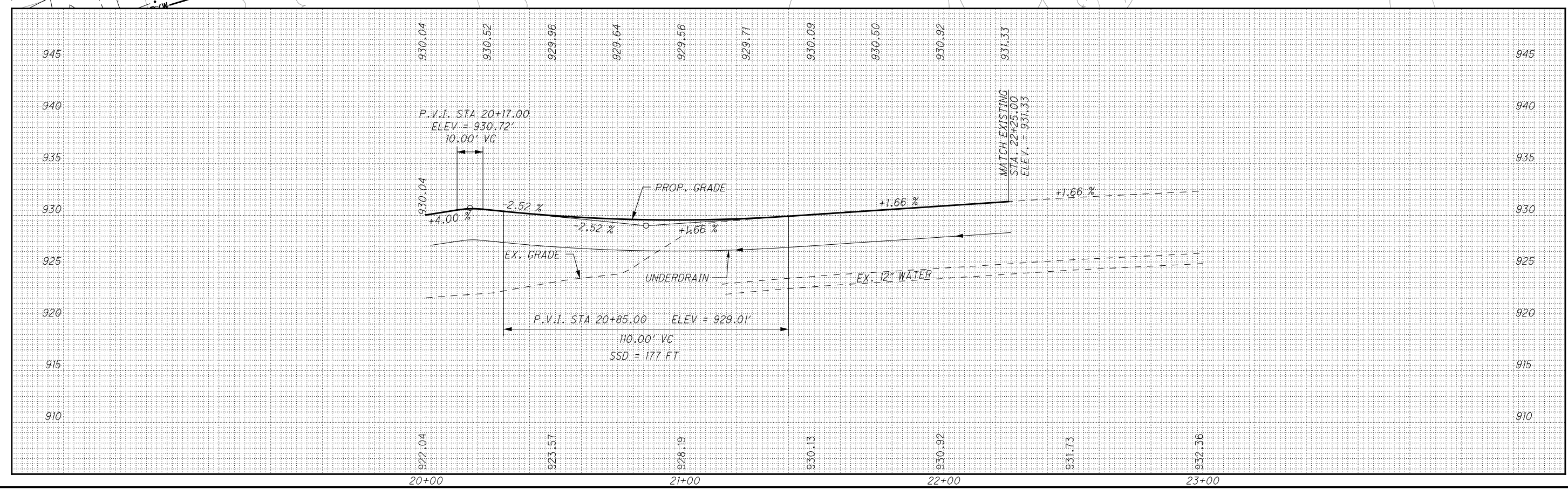
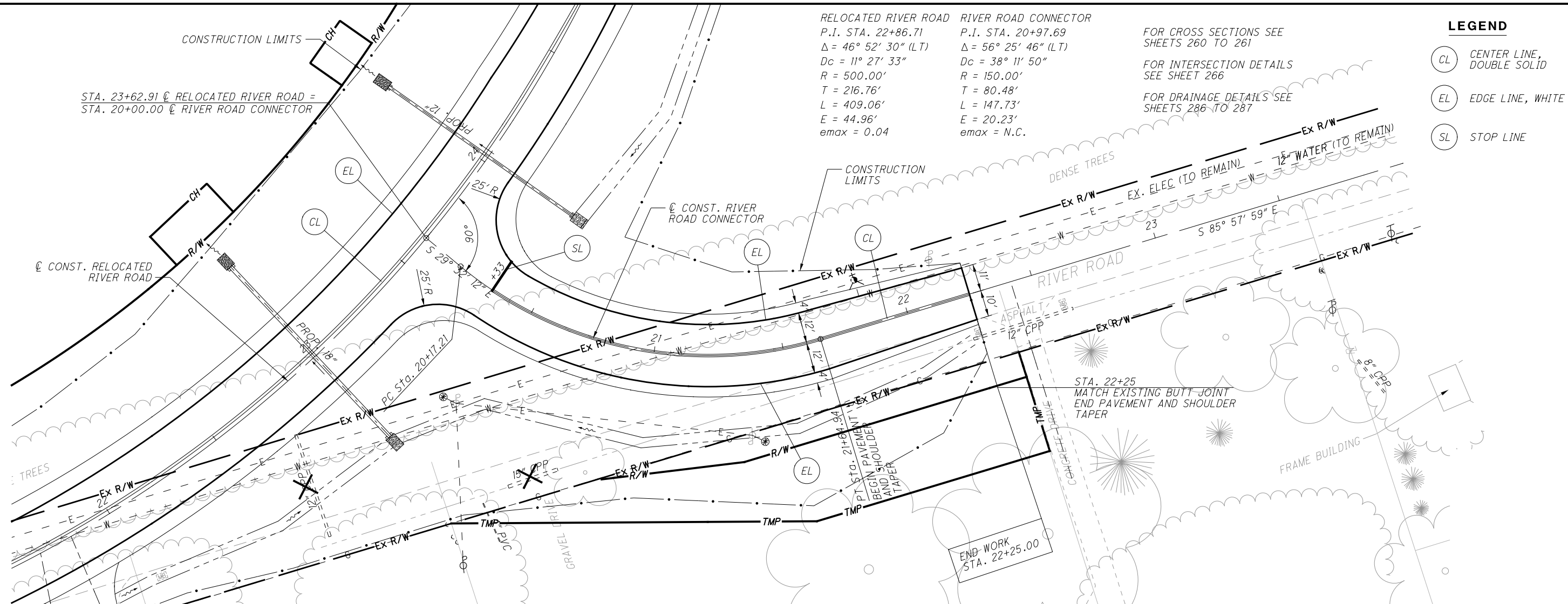
SOURCE BENCHMARK CONTROL POINT #21,
 CITY OF HEATH CONCRETE MONUMENT H-21
 ELEV=906.25, STA. 109+22.87, 33.51' RTBM



**PLAN AND PROFILE - LEES
 STA. 18+00 TO STA. 20+00**



LIC-THORNWOOD



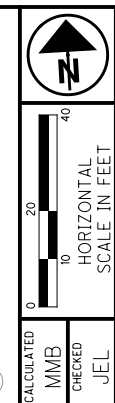
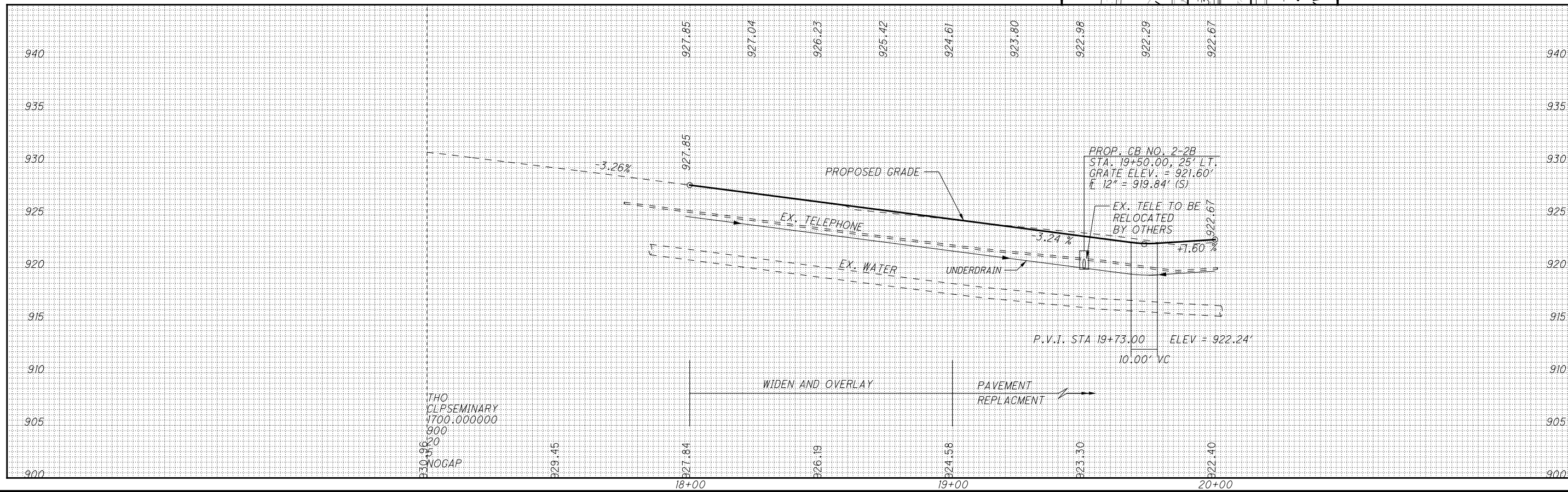
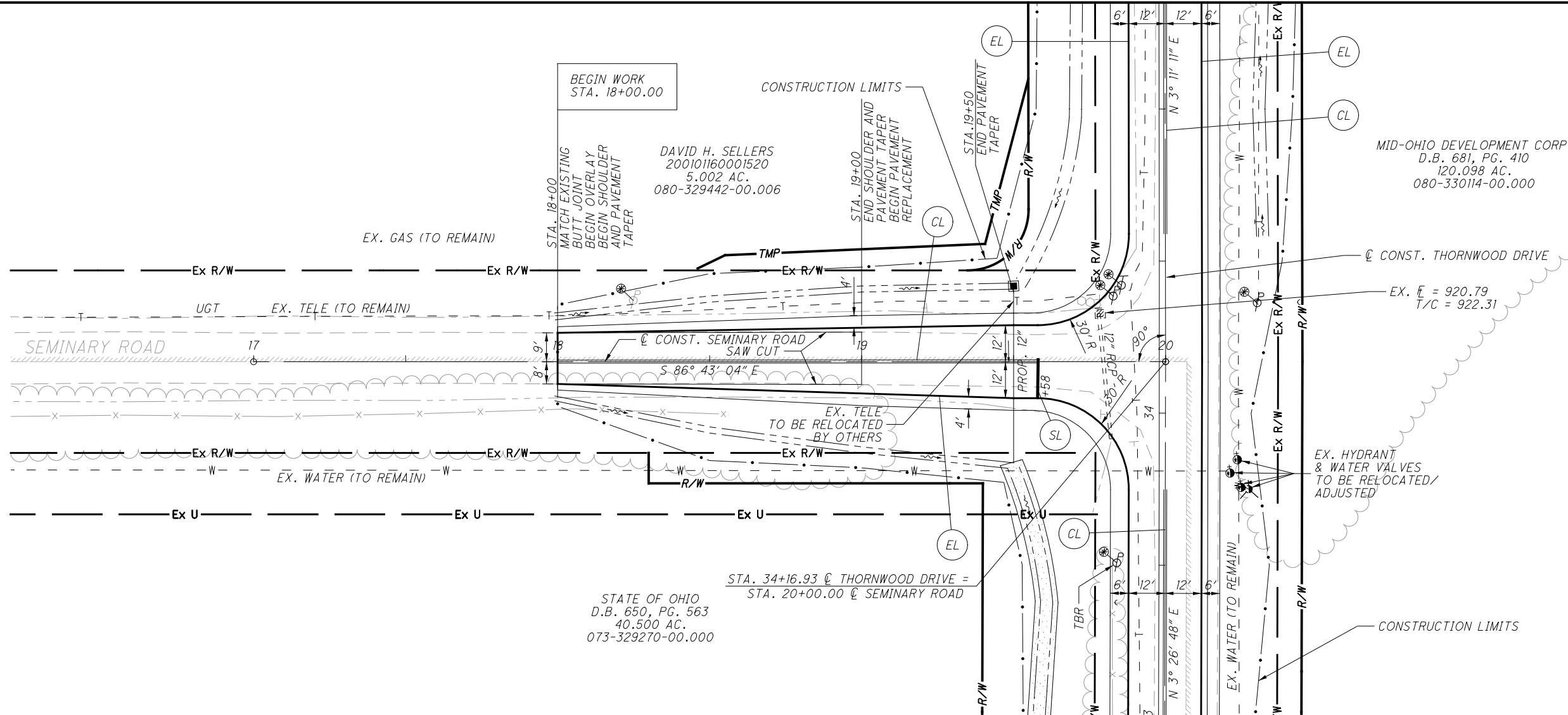
LEGEND

- (CL) CENTER LINE, DOUBLE SOLID
- (EL) EDGE LINE, WHITE
- (SL) STOP LINE
- 7.5' WIDE DITCH EROSION PROTECTION

X TO BE REMOVED

FOR CROSS SECTIONS
SEE SHEETS 229 TO 230

FOR INTERSECTION DETAILS
SEE SHEET 262



PLAN AND PROFILE - SEMINARY - THORNWOOD
STA. 17+37.87 TO STA. 20+00

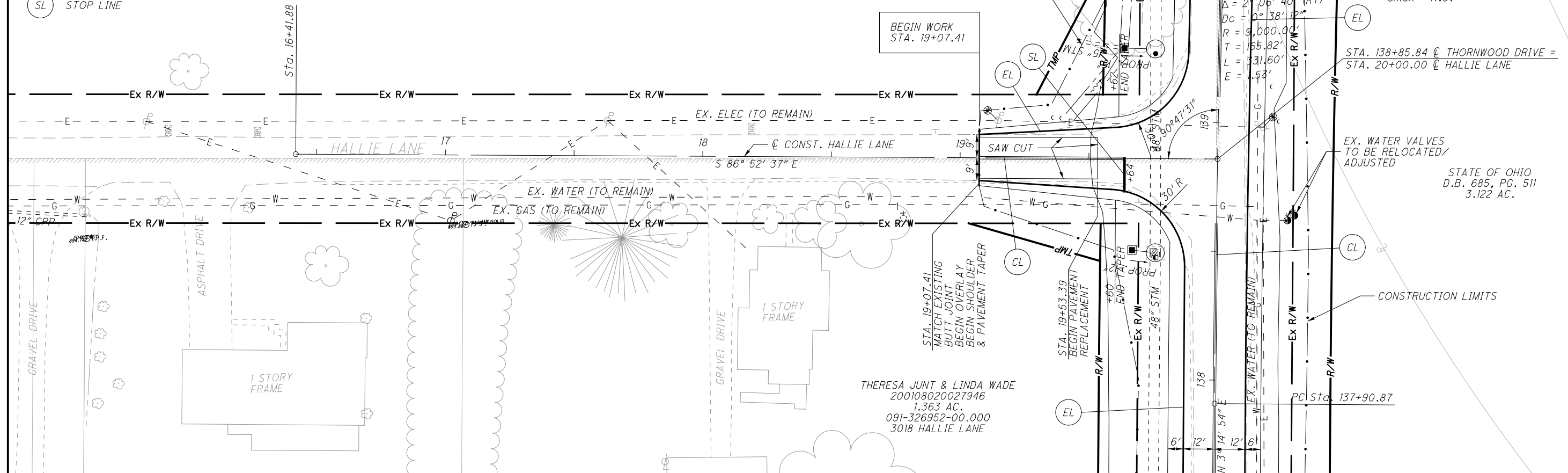
IP_PWP:dms08268\78116GP600.DGN 27-JUL-2010 4:55PM rgreenland

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE

FOR INTERSECTION DETAILS
SEE SHEET 264

IRVIN & CHRISTI L. HUNKLER
O.R. 294, PG. 368
11.028 AC.
071-326520-00.000

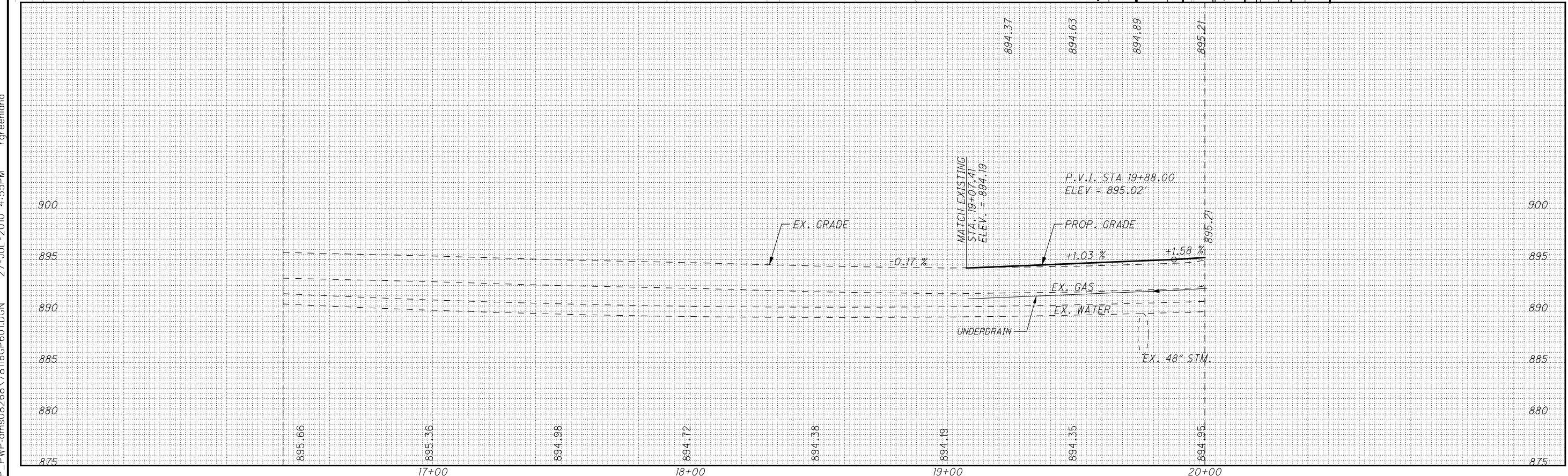


P.I. STA. 139+56.69
 $\Delta = 2^\circ 06' 40''$ (RT)
 $Dc = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 165.82'$
 $L = 331.60'$
 $E = 1.53'$
 $e_{max} = N.C.$

STA. 138+85.84 @ THORNWOOD DRIVE =
STA. 20+00.00 @ HALLIE LANE

STATE OF OHIO
D.B. 685, PG. 511
3.122 AC.

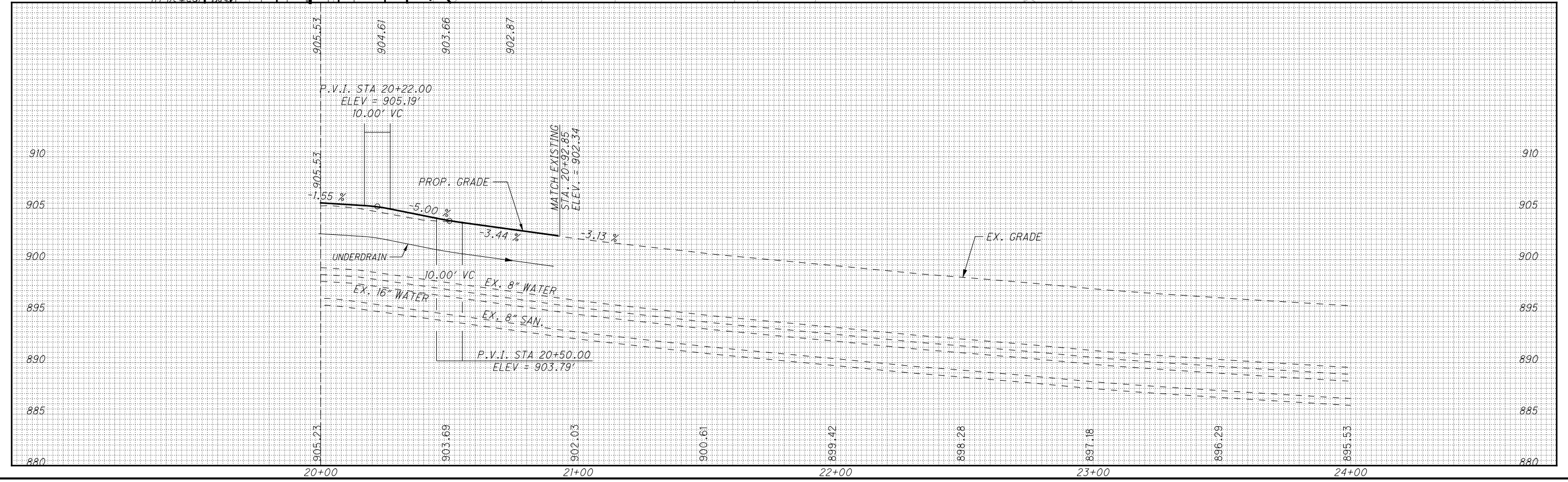
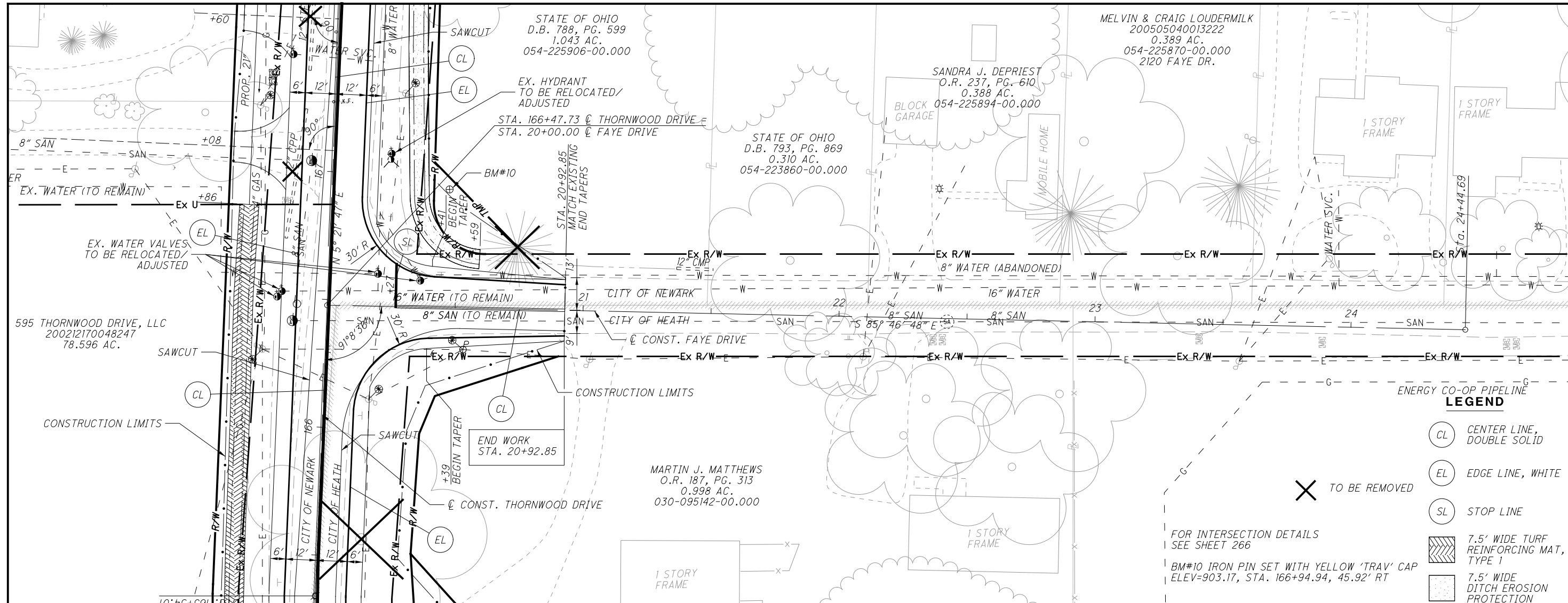
THERESA JUNT & LINDA WADE
200108020027946
1.363 AC.
091-326952-00.000
3018 HALLIE LANE



**PLAN AND PROFILE - HALLIE
STA. 16+41.88 TO STA. 20+00**

LIC-THORNWOOD

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PLAN AND PROFILE - FAYE
STA. 20+00 TO STA. 24+44.69

LIC-THORNWOOD

72
288

CALCULATED: MMB
CHECKED: JEL

SCALE IN FEET
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE

FOR INTERSECTION DETAILS SEE SHEET 263

CONST. THORNWOOD DRIVE
 EX. WATER VALVE TO BE RELOCATED/ADJUSTED

SAWCUT
 CONSTRUCTION LIMITS

FRAME

LEONARD A. & ELIZABETH A. LEBOLD
 O.R. 633, PG.159
 2.00 AC.
 030-088296-00.000
 ADD: 1050 THORNWOOD DR.

CHRISTOPHER R. & TAMMY F. STANLEY
 200012080039011
 RESERVE 'A' - 0.259 AC.
 030-088296-00.000

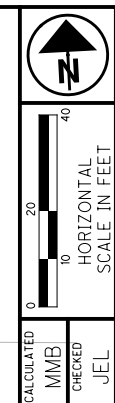
BKC INC.
 200005030013978
 LOT 31 - 0.416 AC.
 030-088296-01.036
 ADD: 999 BROOKSIDE DR

PAUL A. & JANIE E. MIVILLE
 200706010013867
 LOT 30 - 0.266 AC.
 030-088296-01.035
 ADD: 995 BROOKSIDE DR.

KENNETH E. TURNER JR. & BARBARA L. TURNER
 200112070044163
 LOT 29 - 0.266 AC.
 030-088296-01.034
 ADD: 991 BROOKSIDE DR.

LOT 28 - 0.266 AC.
 BROOKSIDE ESTATES
 P.B. 16, PG. 188

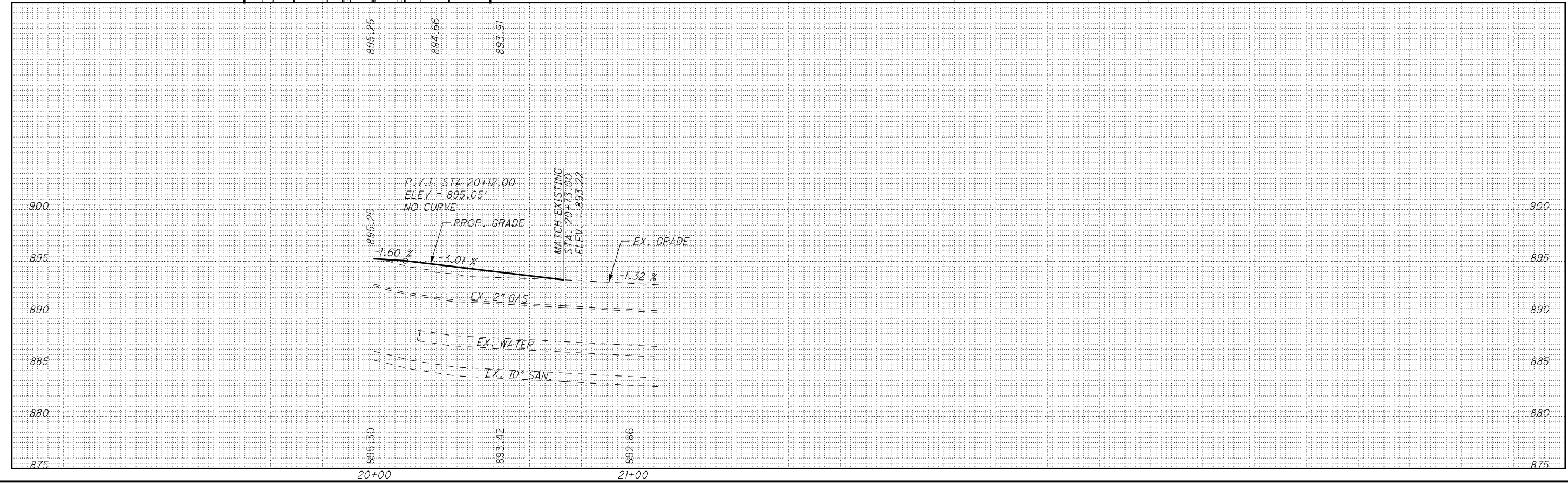
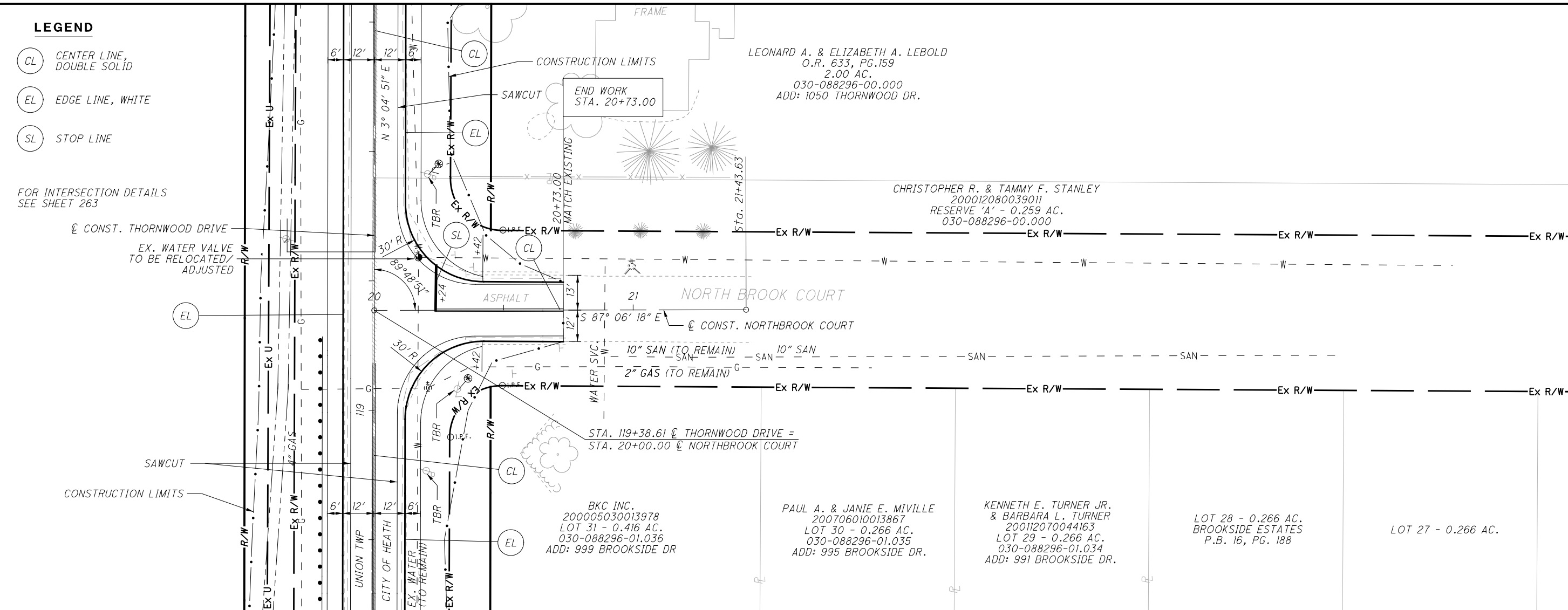
LOT 27 - 0.266 AC.



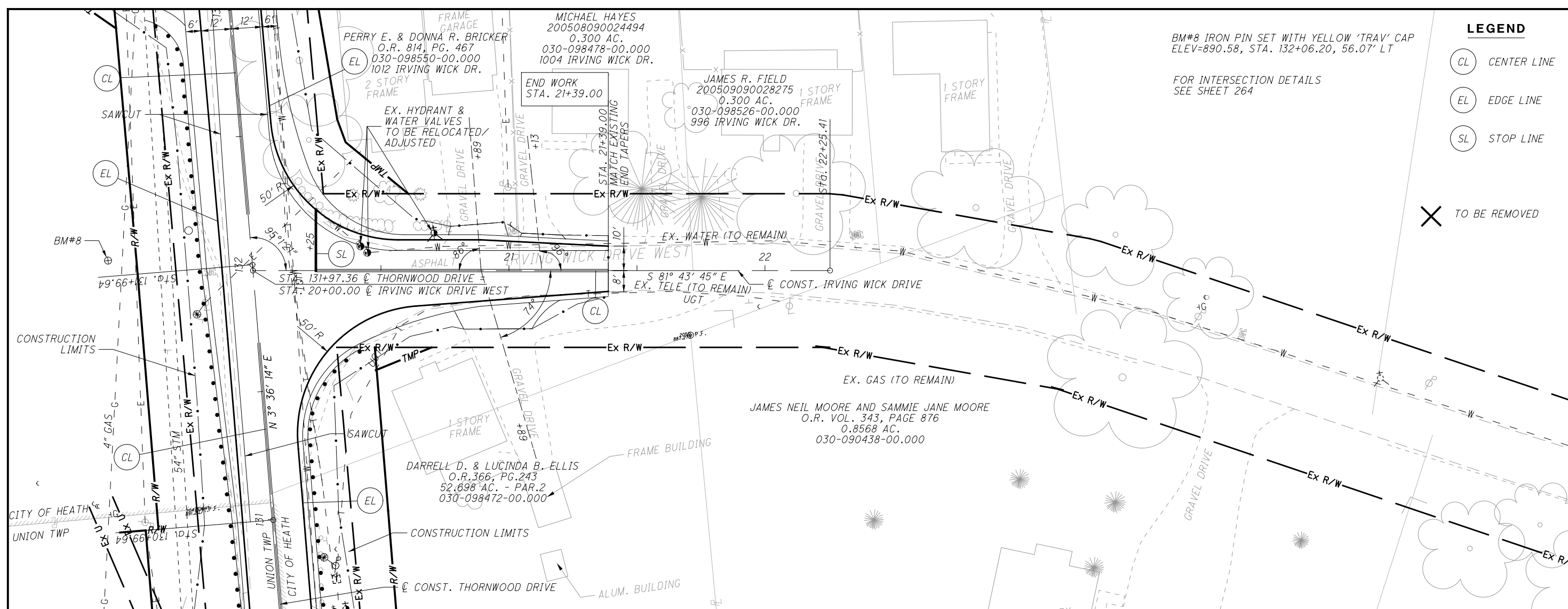
PLAN AND PROFILE - NORTHBROOK
 STA. 20+00 TO STA. 21+43.63

LIC-THORNWOOD

IP_PWP:dms08268\78116GP604.DGN 27-JUL-2010 4:56PM rgreenland



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BM#8 IRON PIN SET WITH YELLOW 'TRAV' CAP
ELEV=890.58, STA. 132+06.20, 56.07' LT

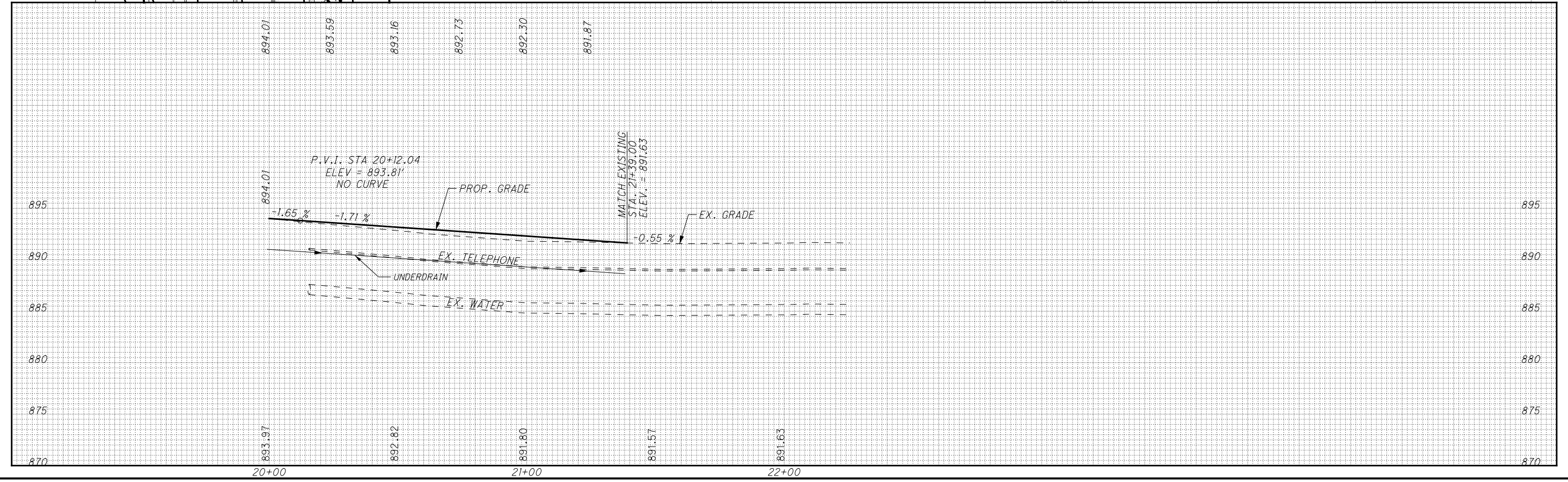
FOR INTERSECTION DETAILS
SEE SHEET 264

LEGEND

- CL CENTER LINE
- EL EDGE LINE
- SL STOP LINE
- X TO BE REMOVED

CALCULATED MMB CHECKED JEL

0 20 40
HORIZONTAL SCALE IN FEET



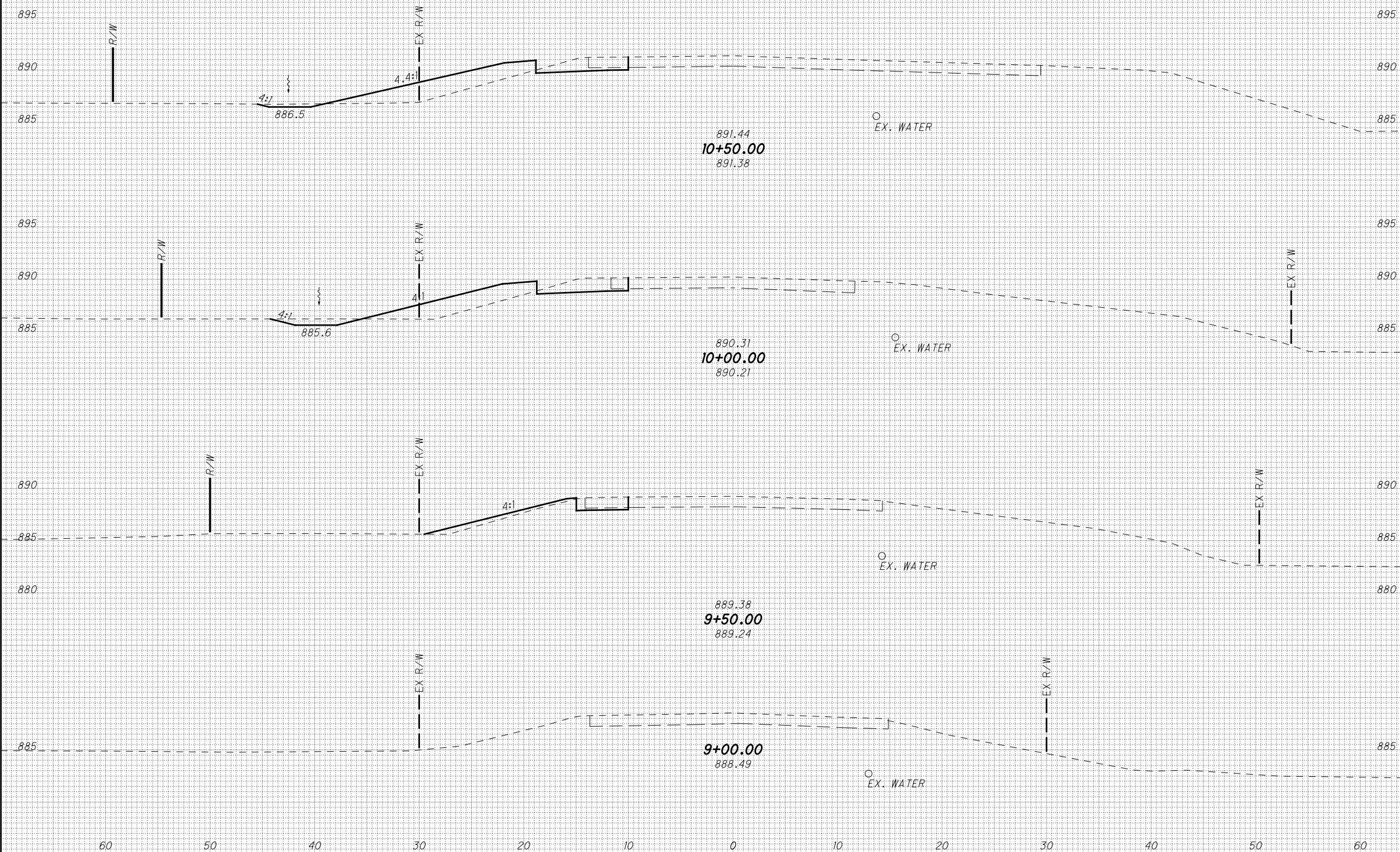
PLAN AND PROFILE - IRVING WICK
STA. 20+00 TO STA. 22+25.41

LIC-THORNWOOD

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 8:32AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CROSS SECTIONS - THORNWOOD
 STA. 9+00.00 TO STA. 10+50.00

LIC-THORNWOOD

75
288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 8:32AM rgreenland

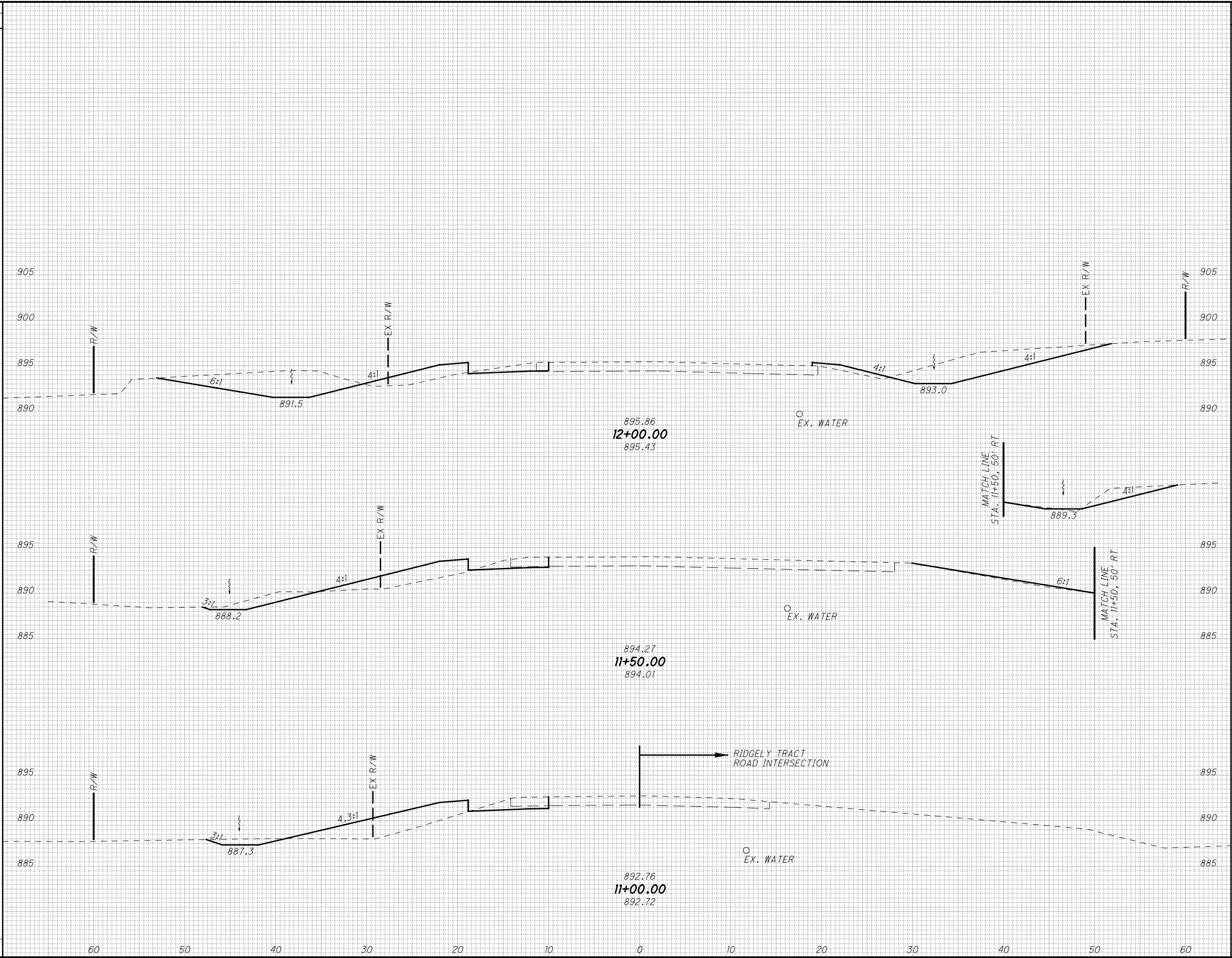
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 11+00.00 TO STA. 12+00.00

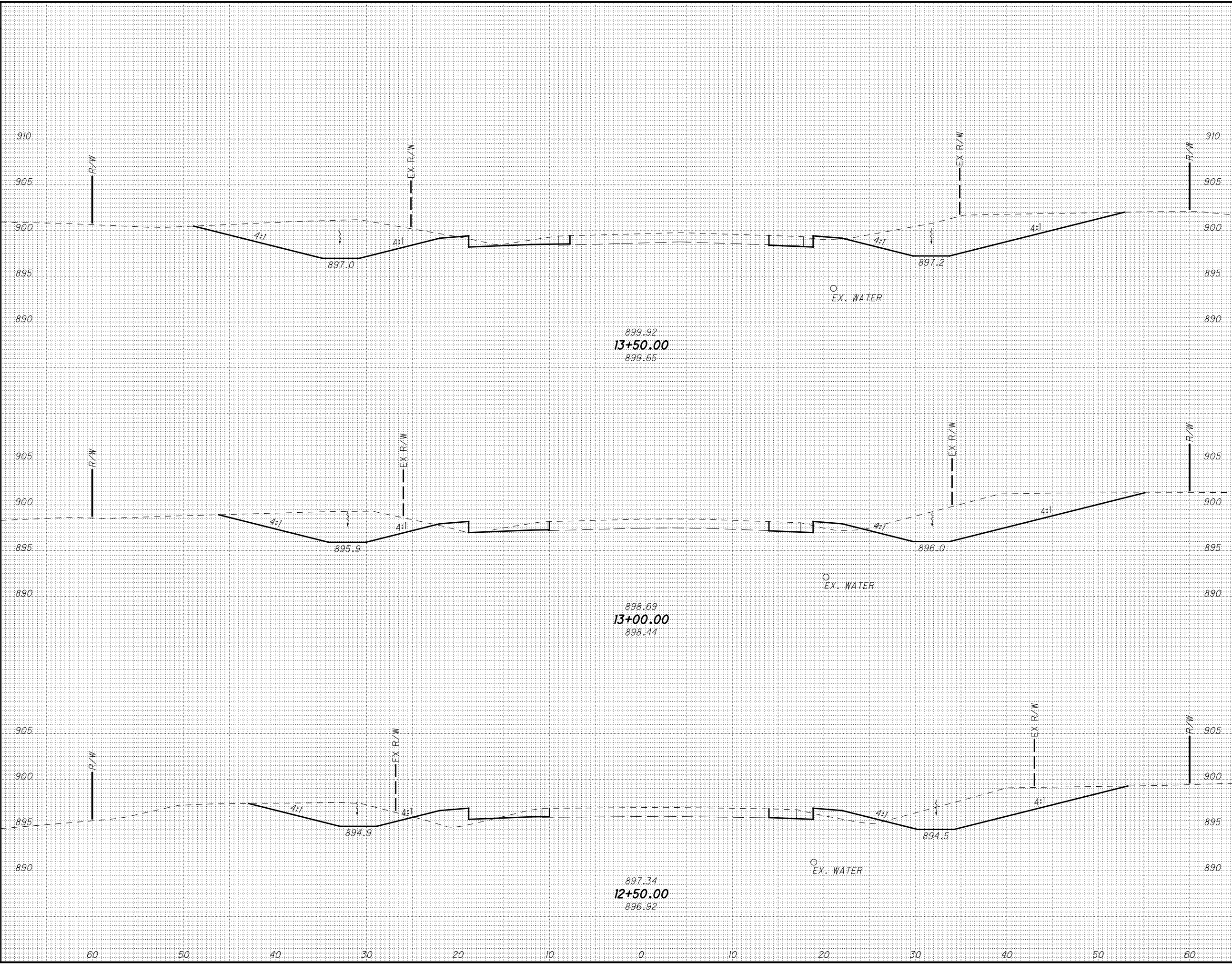
LIC-THORNWOOD



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:32AM rgreenland

SEEDING

END WIDTH	SO. YDS.
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

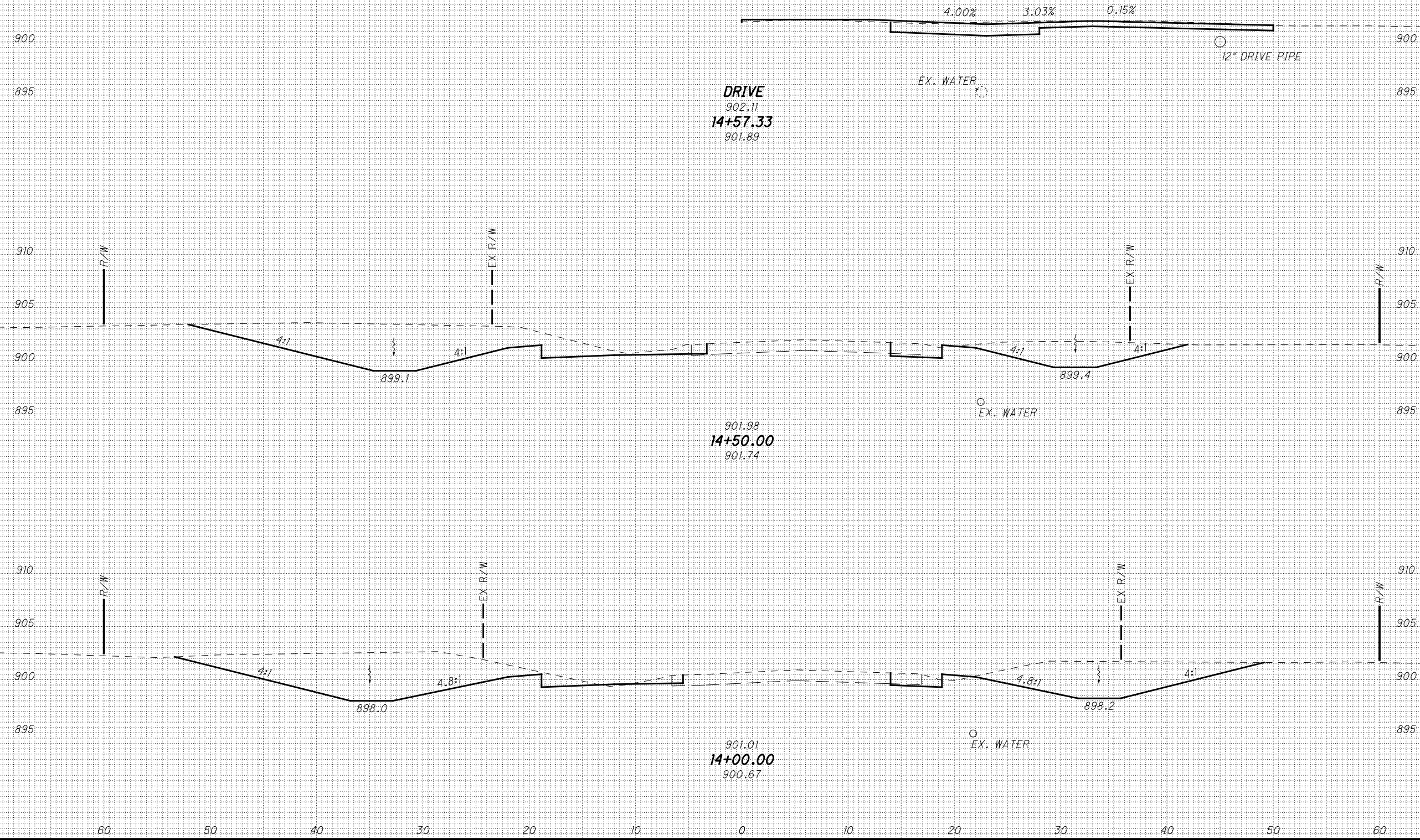
CROSS SECTIONS - THORNWOOD
STA. 12+50.00 TO STA. 13+50.00

LIC-THORNWOOD

IP_PWP:dms08268\78116\5001.dgn 28-JUL-2010 8:32AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				



CROSS SECTIONS - THORNWOOD
STA. 14+00.00 TO STA. 14+57.33

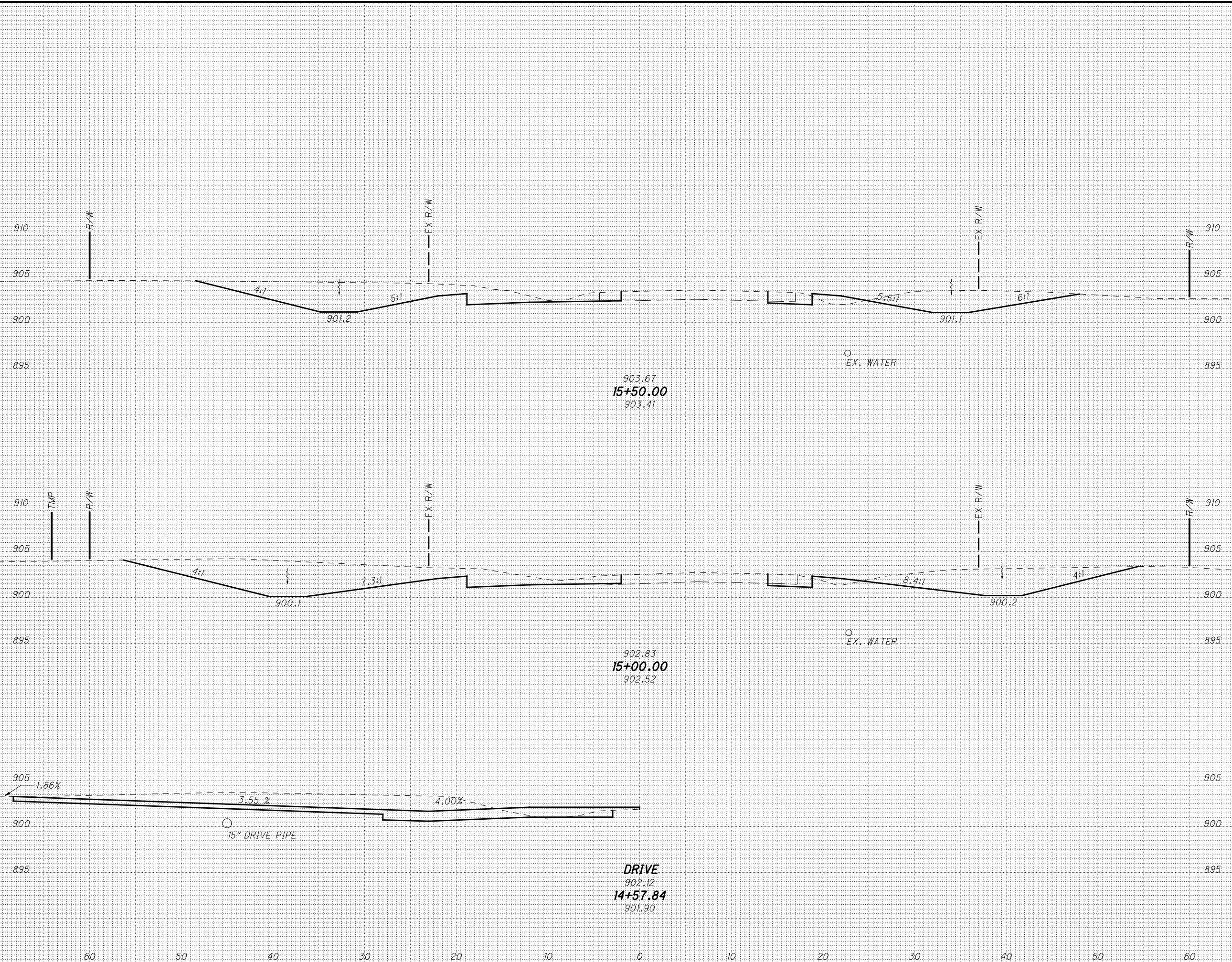
LIC-THORNWOOD

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:32AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 14+57.84 TO STA. 15+50.00

LIC-THORNWOOD

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SEEDING

END WIDTH	SQ. YDS.		
		CUT	FILL

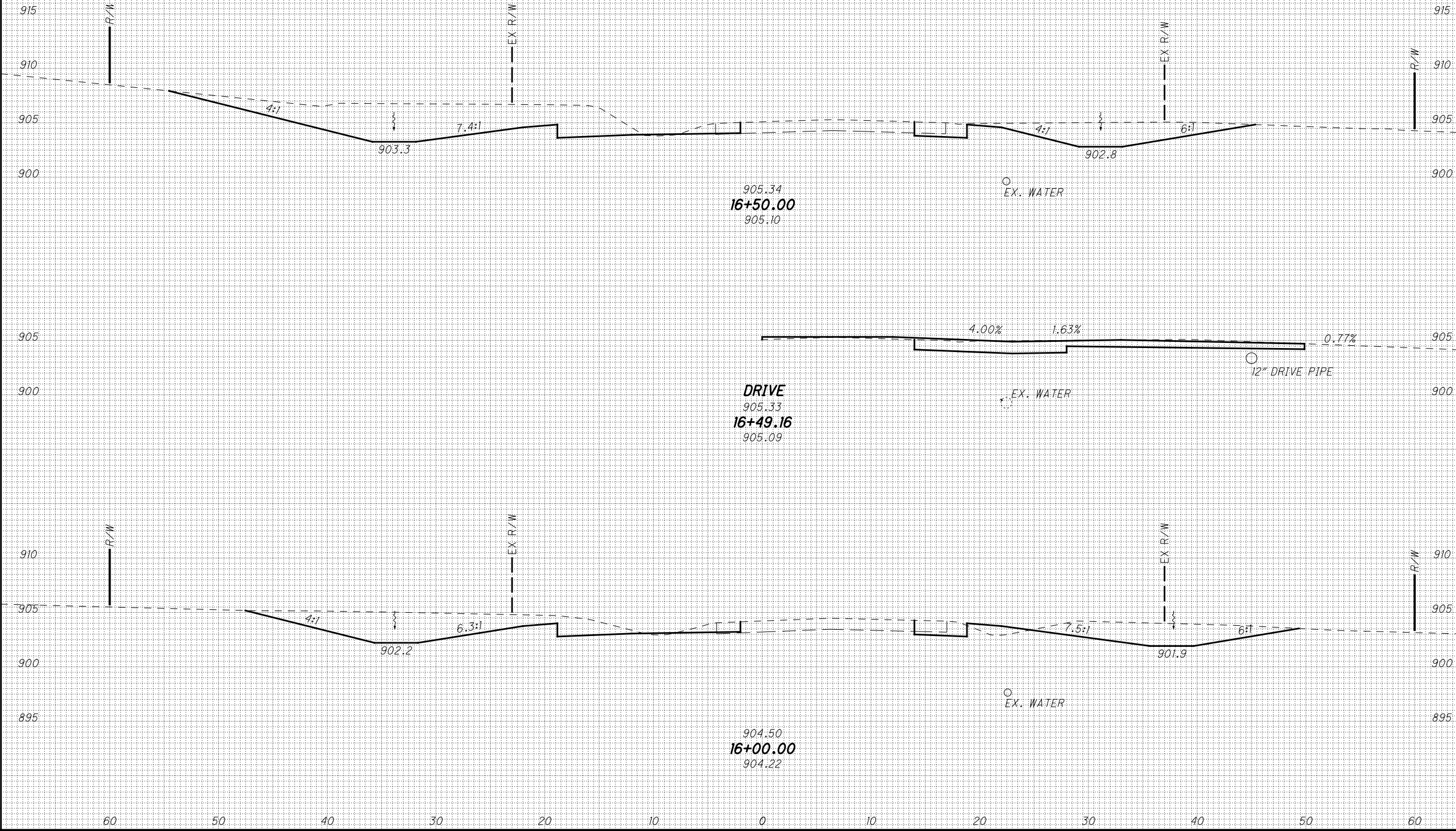
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
 STA. 16+00.00 TO STA. 16+50.00

LIC-THORNWOOD

80
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:33AM rgreenland

SEEDING
END WIDTH SQ. YDS.

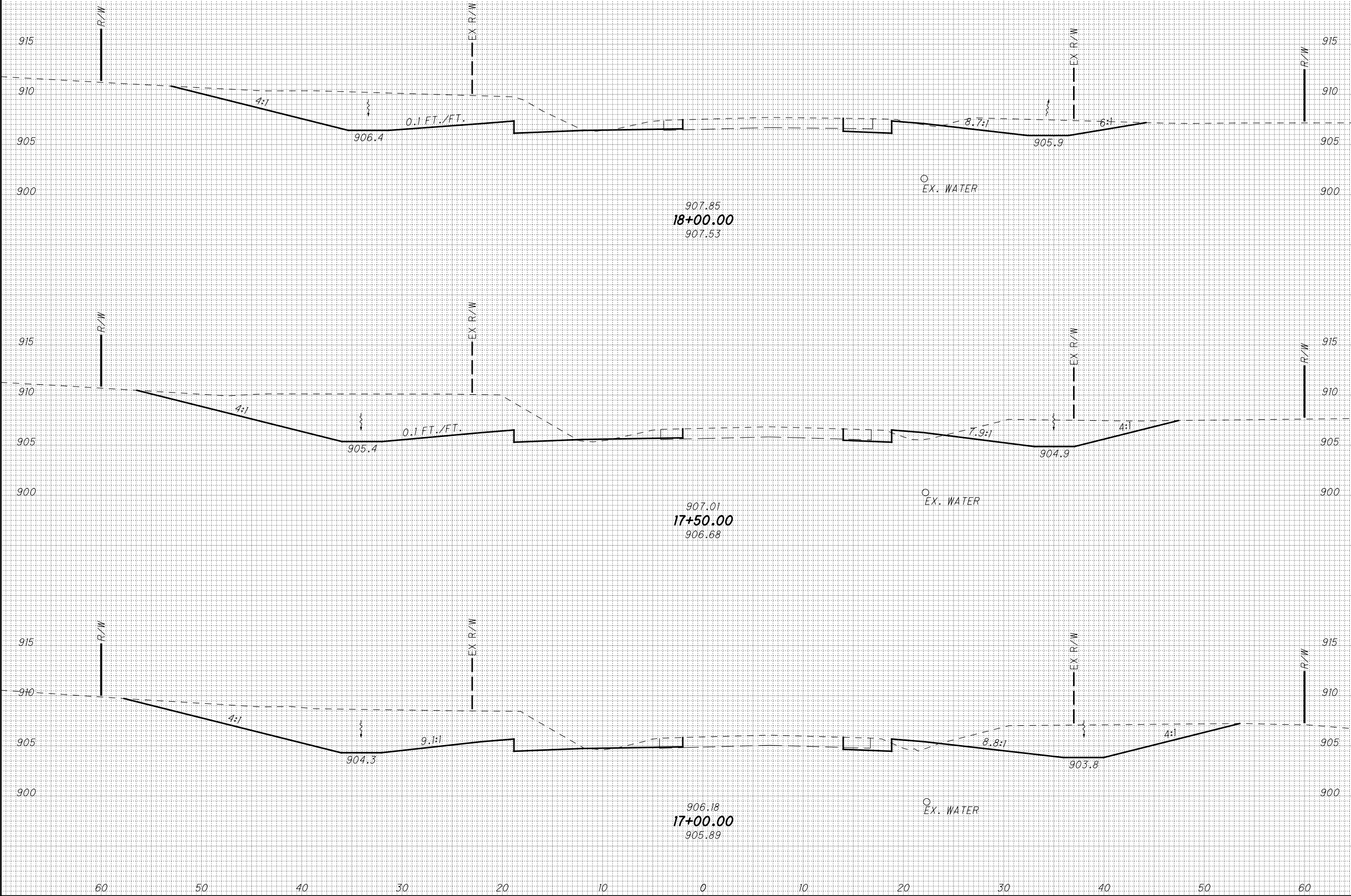
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 17+00.00 TO STA. 18+00.00

LIC-THORNWOOD

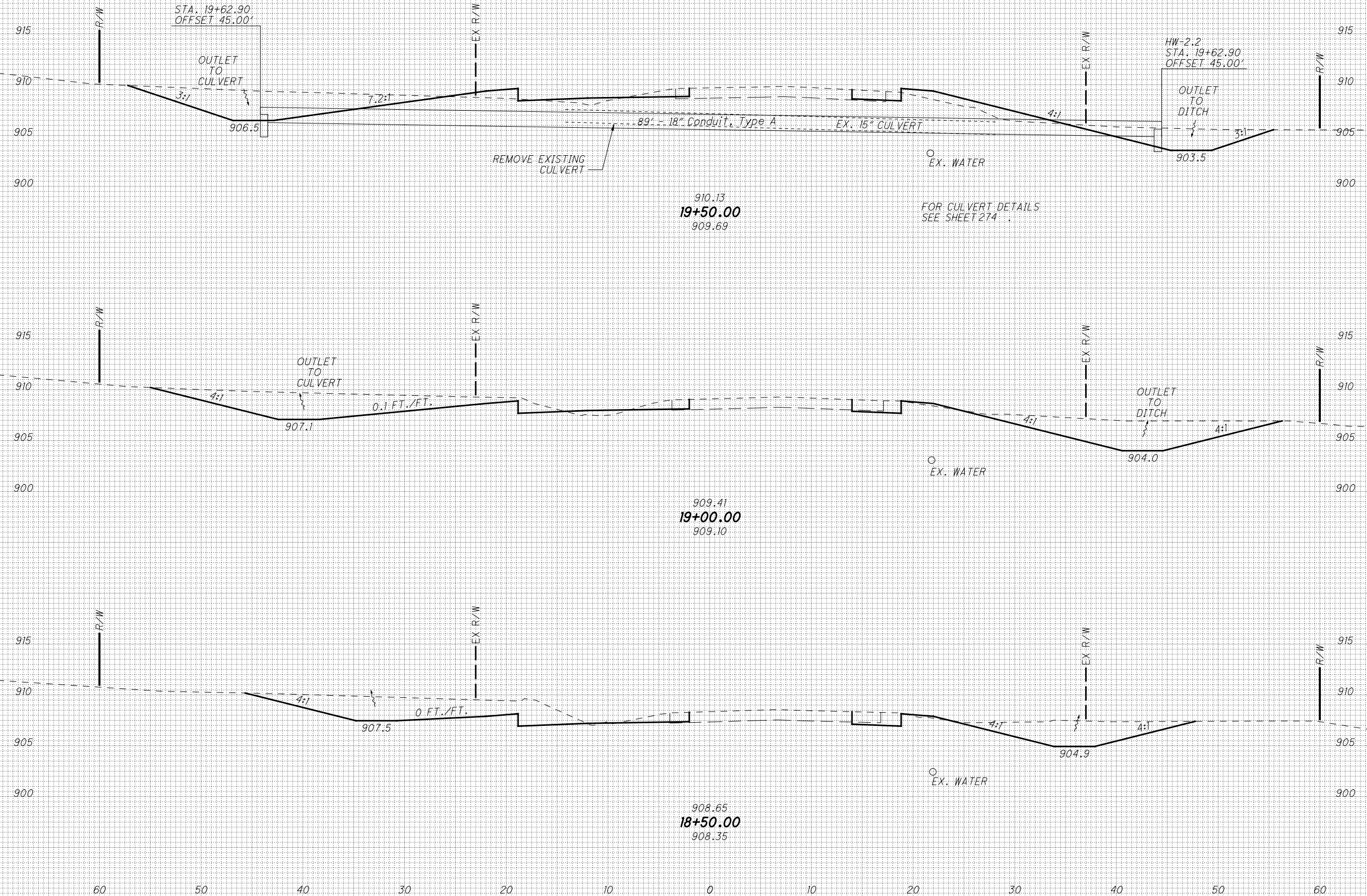
81
288



P:\PWP\dms08268\78116\5001.dgn 28-JUL-2010 8:33AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL



CROSS SECTIONS - THORNWOOD
STA. 18+50.00 TO STA. 19+50.00

LIC-THORNWOOD

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 8:33AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

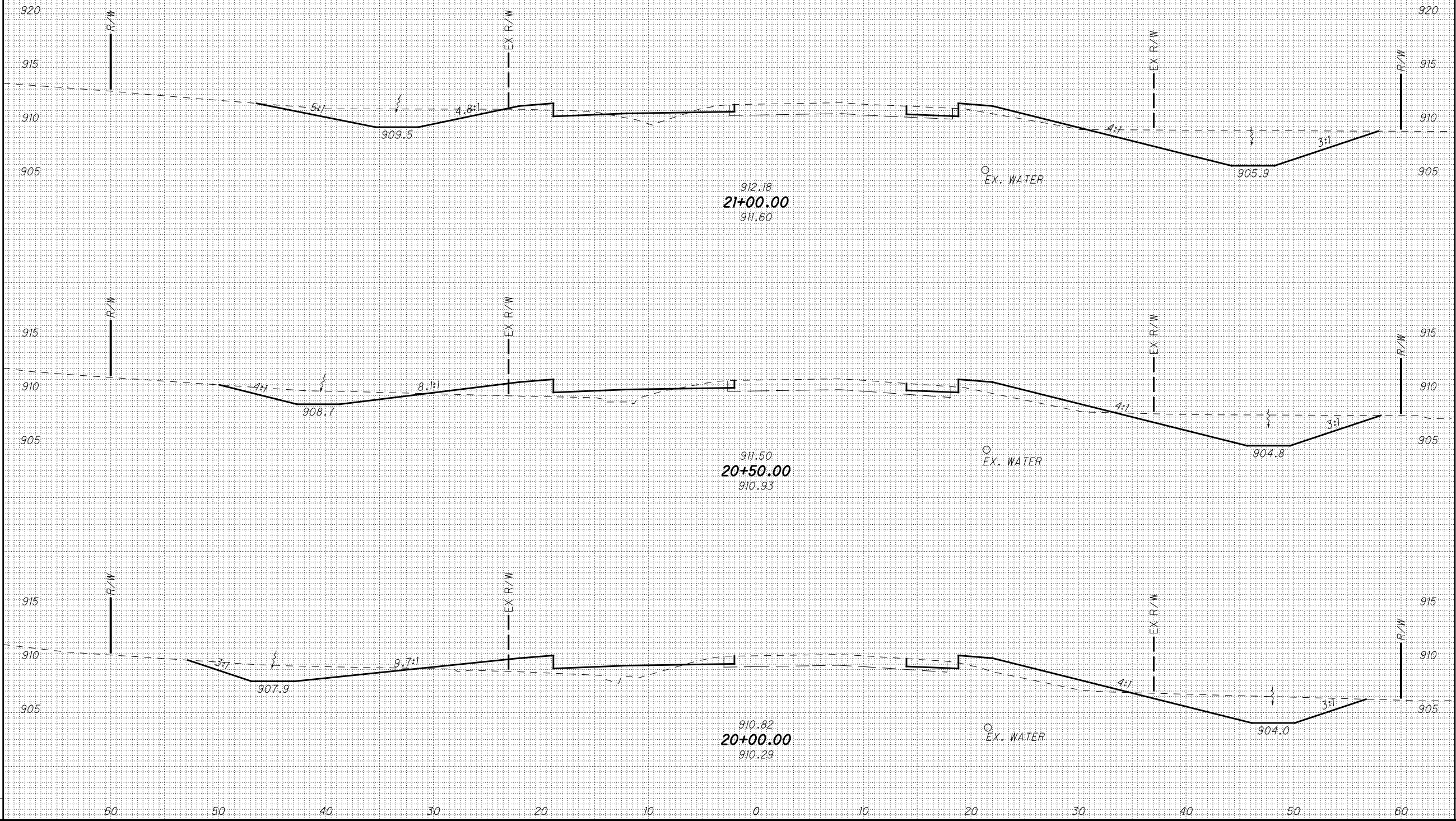
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

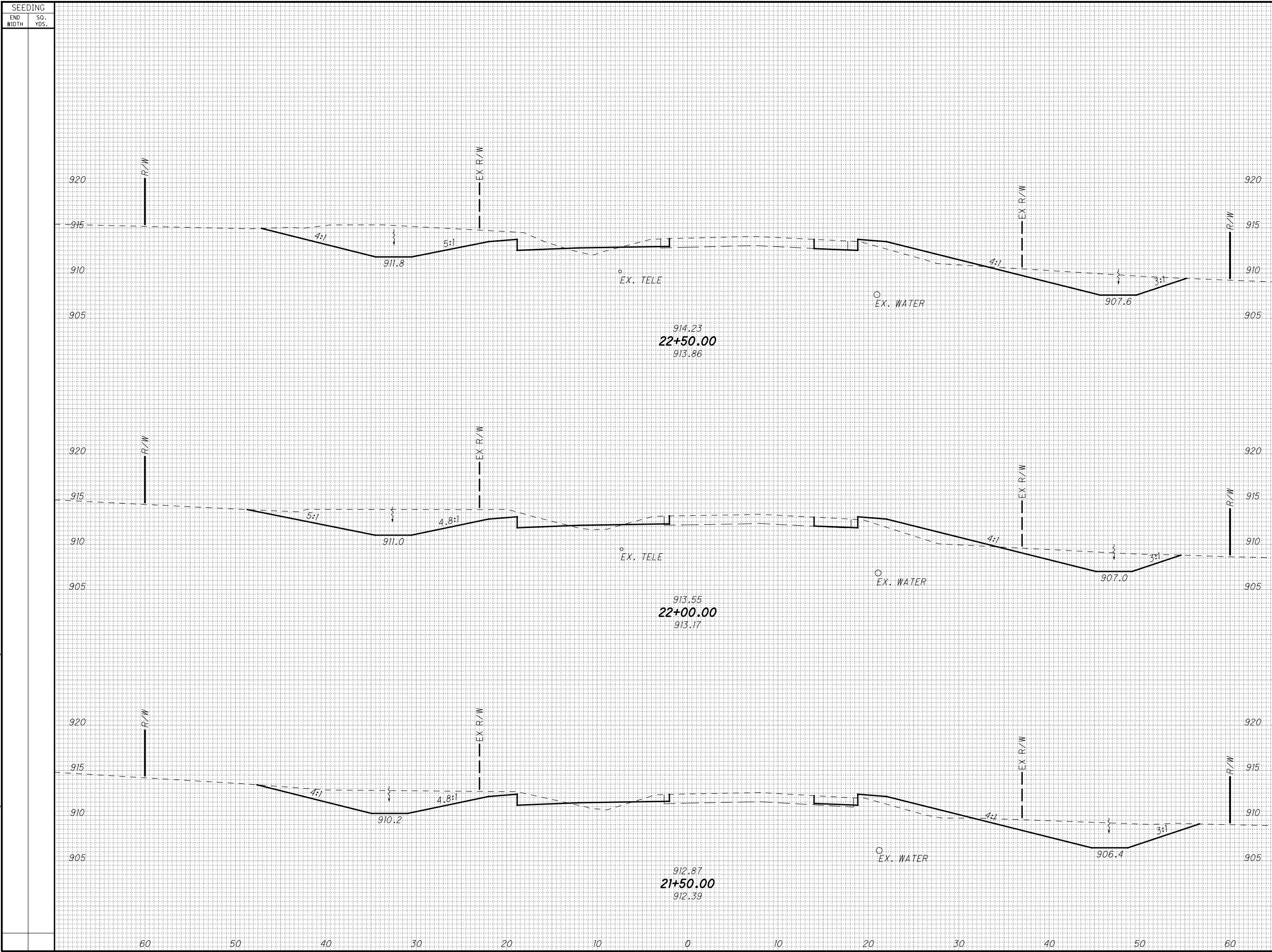
CROSS SECTIONS - THORNWOOD
STA. 20+00.00 TO STA. 21+00.00

LIC-THORNWOOD

83
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:33AM rgreenland



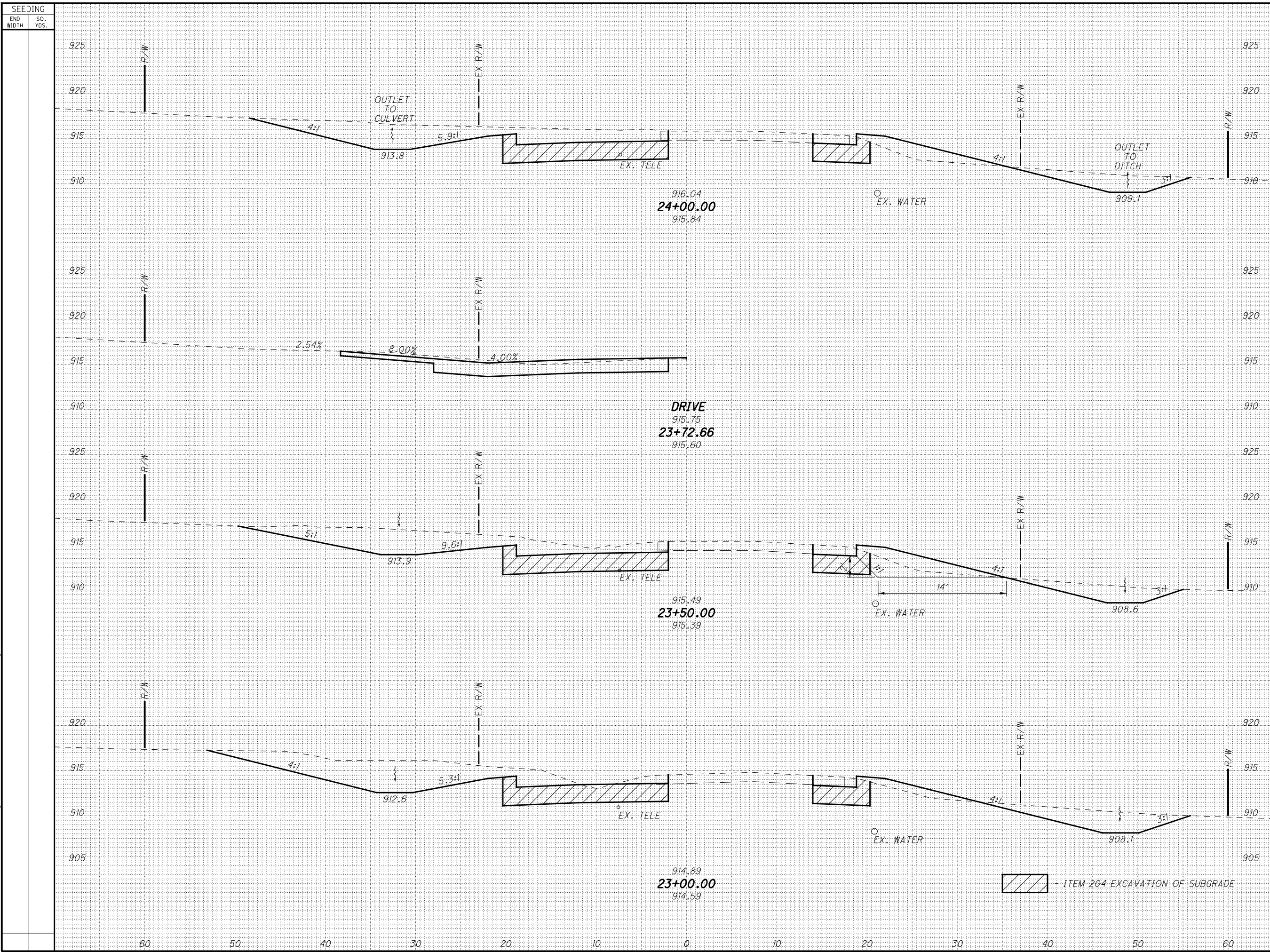
SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 21+50.00 TO STA. 22+50.00

LIC-THORNWOOD

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

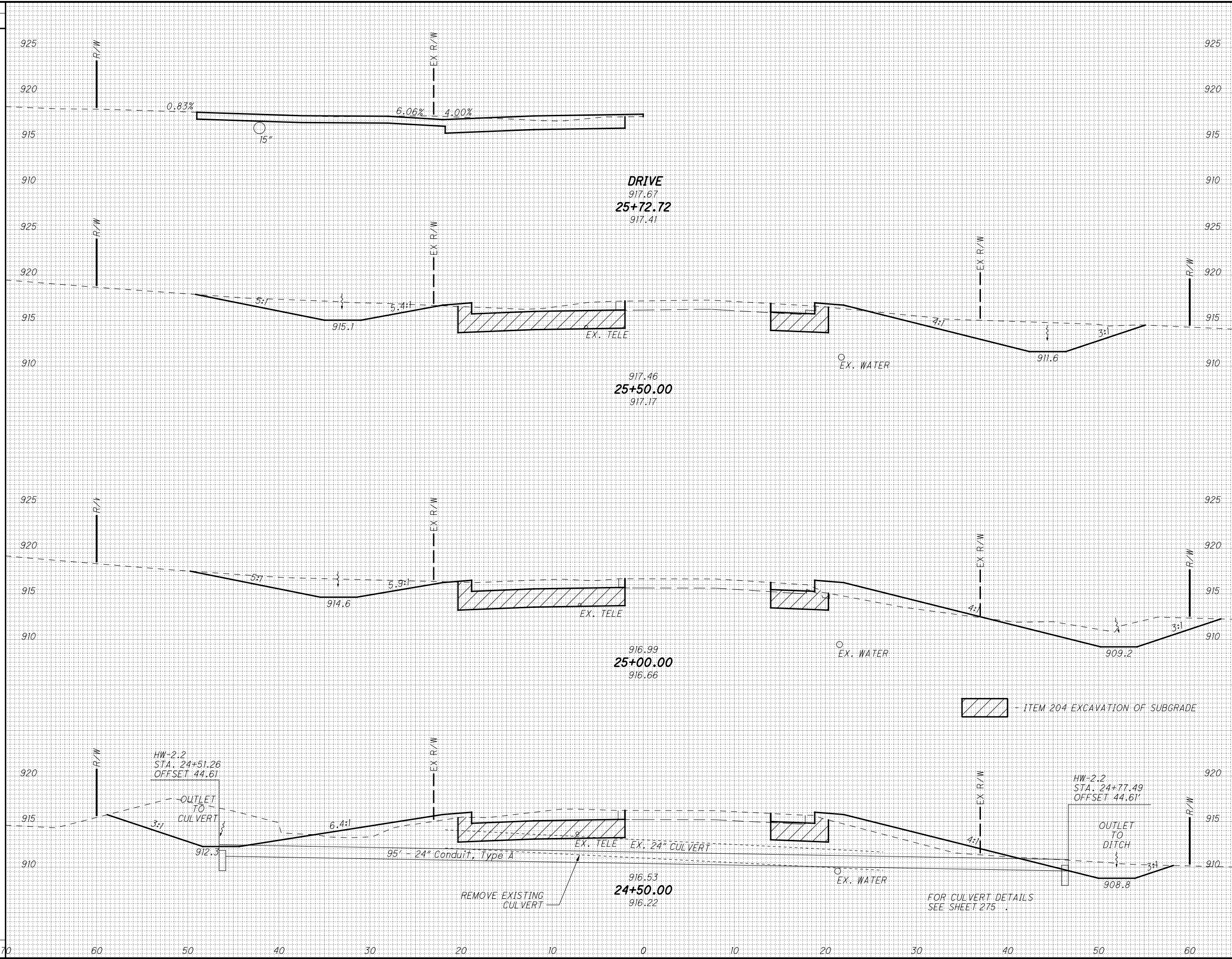
CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
 STA. 23+00.00 TO STA. 24+00.00

LIC-THORNWOOD

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SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

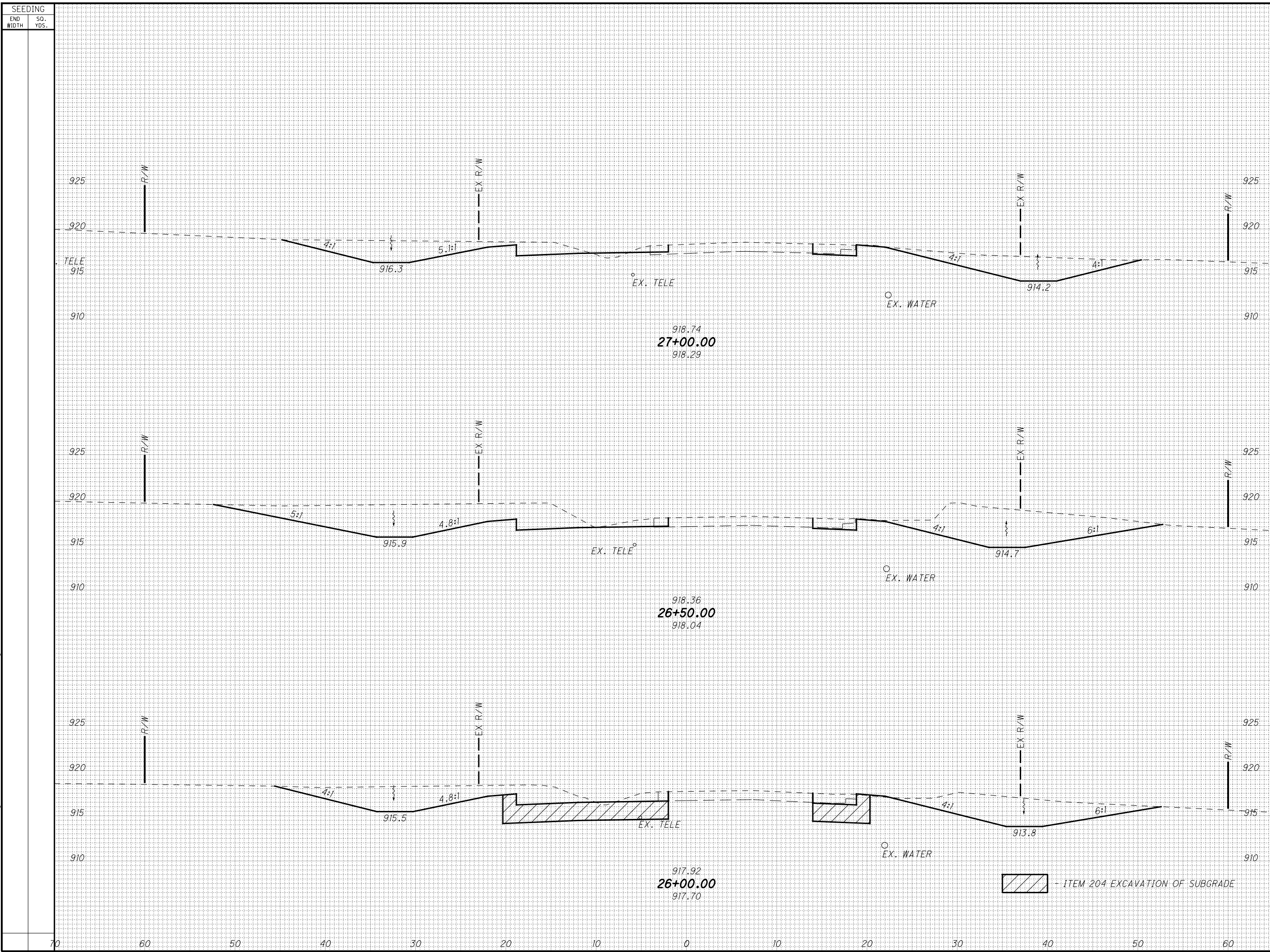


END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 24+50.00 TO STA. 25+50.00

LIC-THORNWOOD

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:34AM rgreenland



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

CALCULATED
 MMB
 CHECKED
 JEL

CROSS SECTIONS - THORNWOOD
STA. 26+00.00 TO STA. 27+00.00

LIC-THORNWOOD

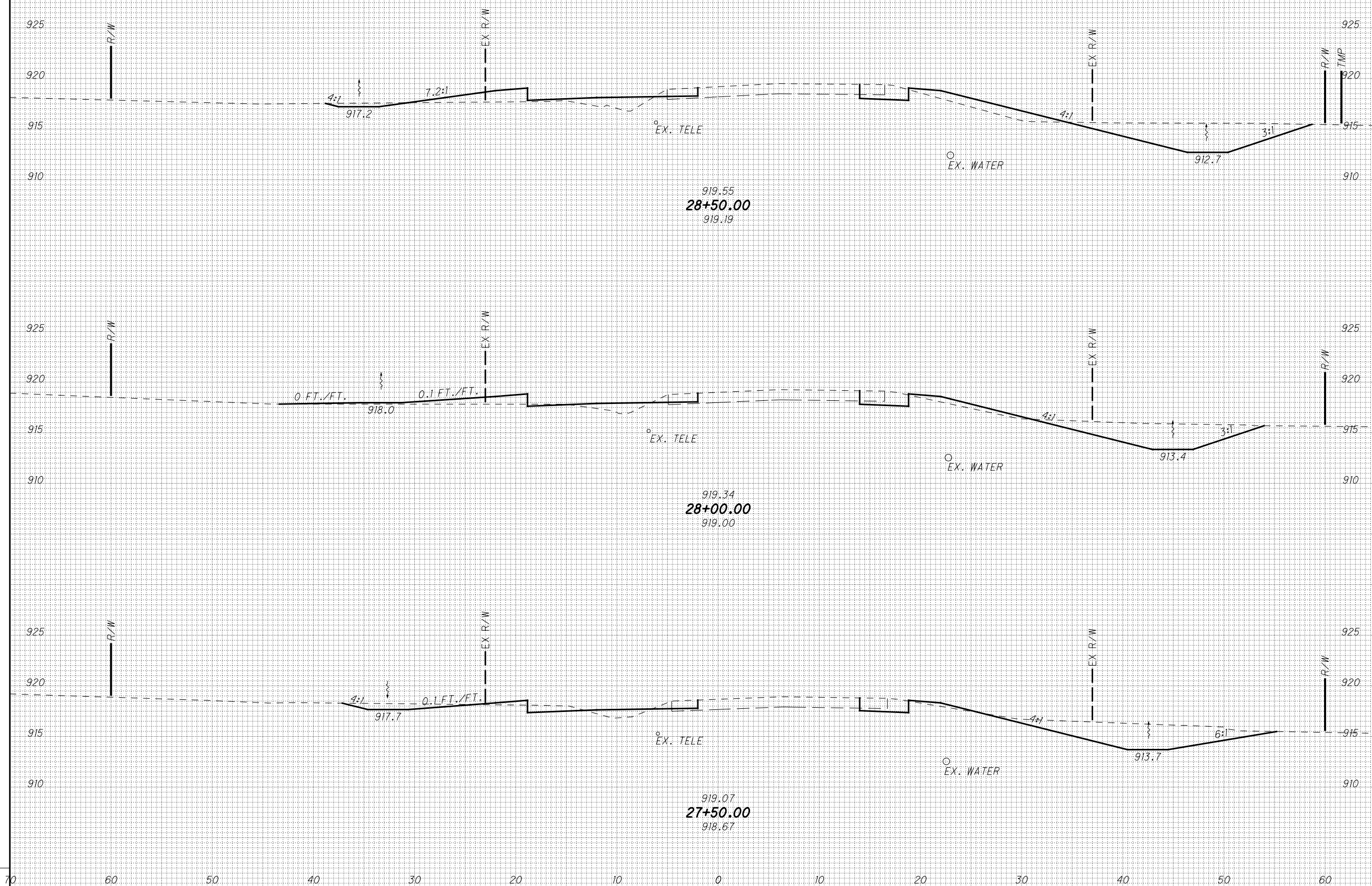
87
 288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 8:34AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

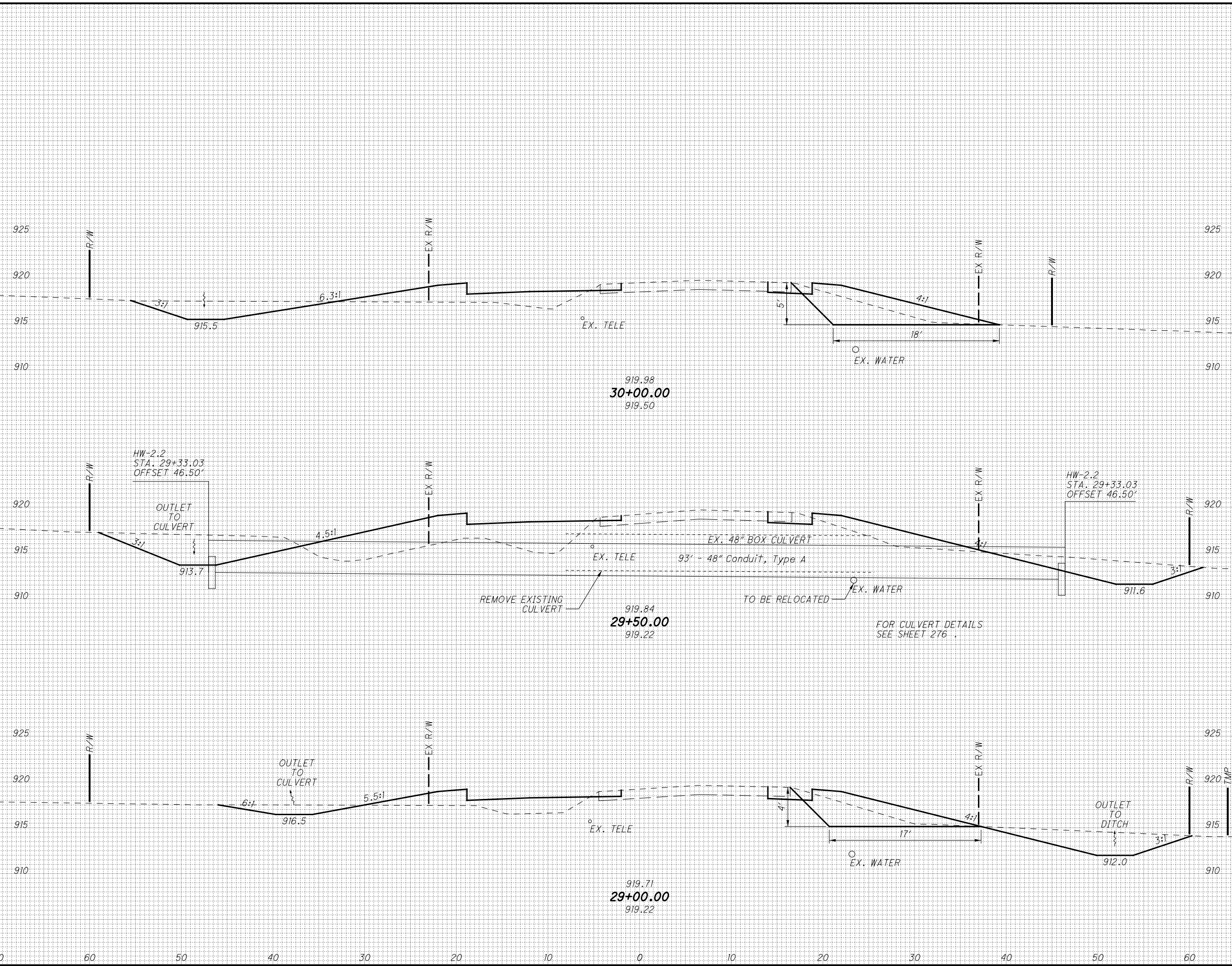


CROSS SECTIONS - THORNWOOD
STA. 27+50.00 TO STA. 28+50.00

LIC-THORNWOOD

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:34AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

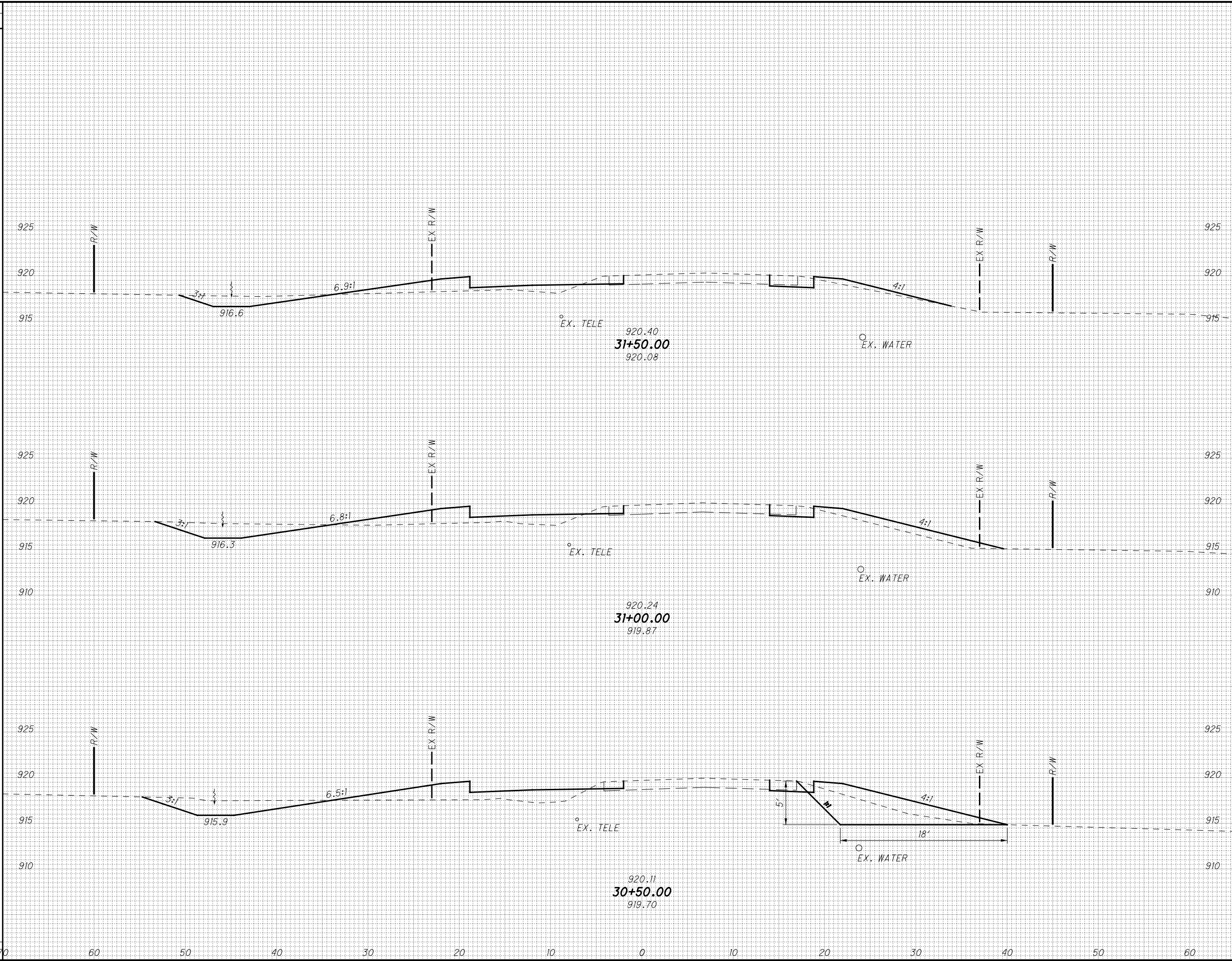
CROSS SECTIONS - THORNWOOD
STA. 29+00.00 TO STA. 30+00.00

LIC-THORNWOOD

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:34AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 30+50.00 TO STA. 31+50.00

LIC-THORNWOOD

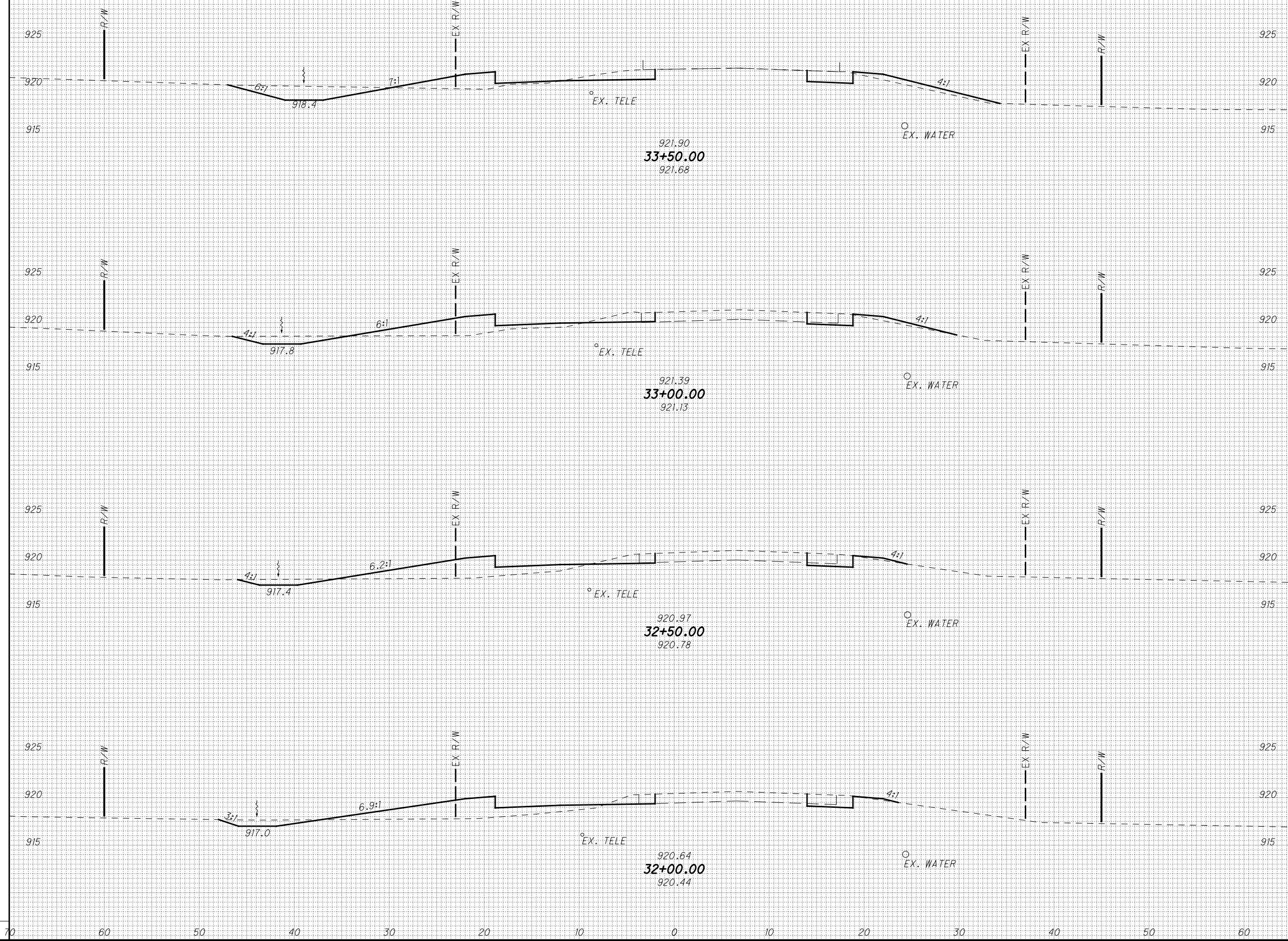
90
288

P:\PWP\dms08268\78116\S001.dgn 28-JUL-2010 8:35AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 32+00.00 TO STA. 33+50.00

LIC-THORNWOOD

91
288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 8:35AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

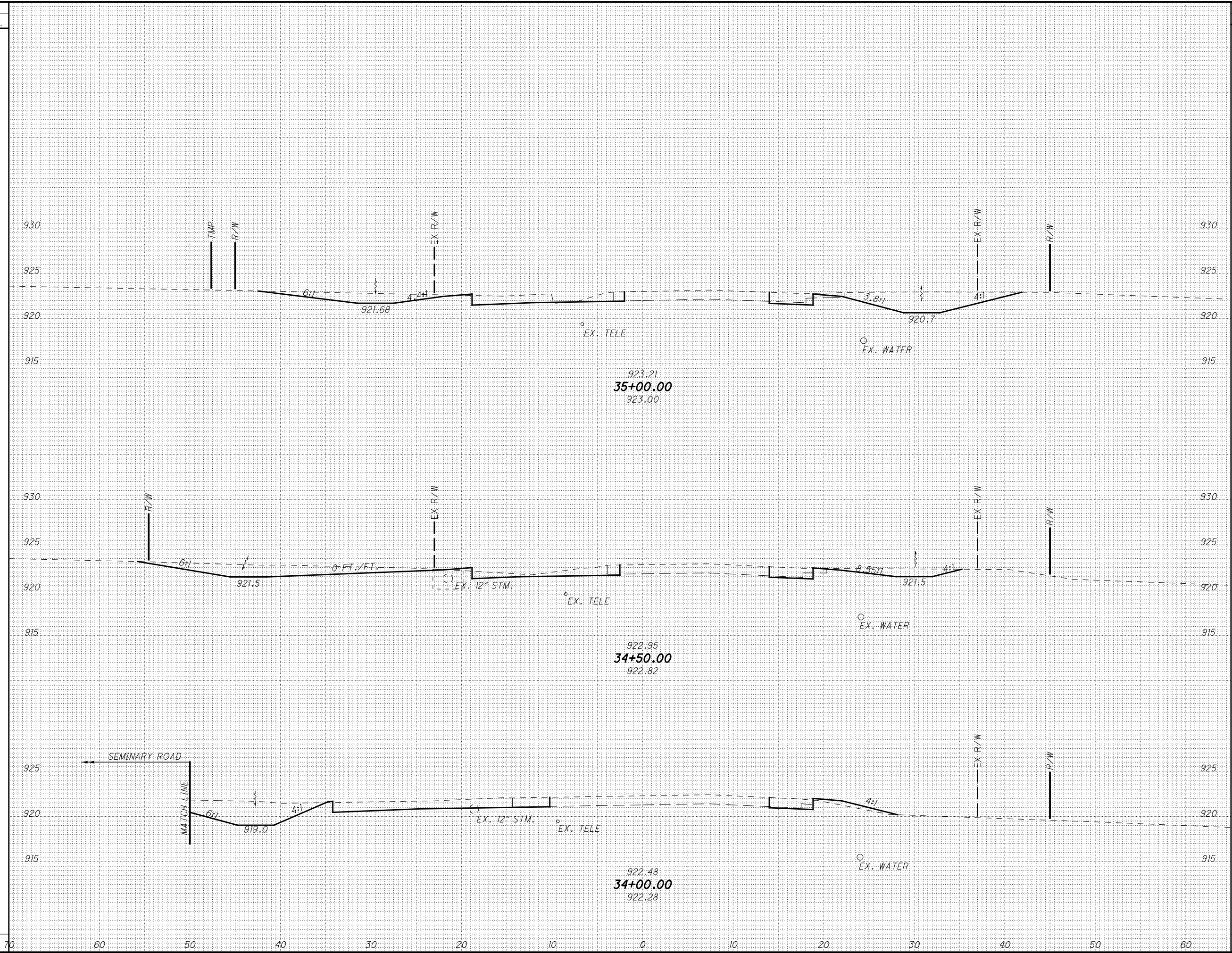
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 34+00.00 TO STA. 35+00.00

LIC-THORNWOOD

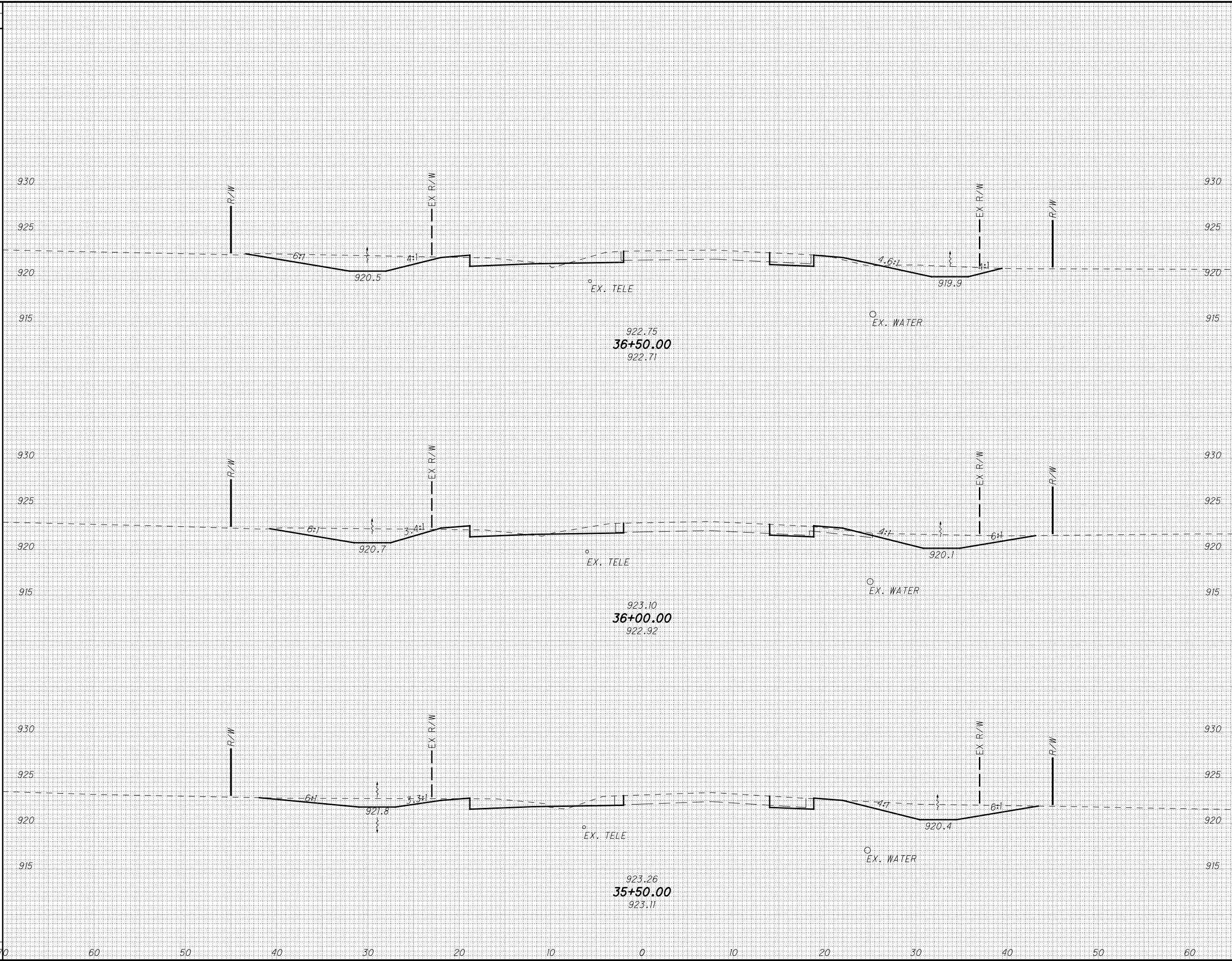
92
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:35AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 35+50.00 TO STA. 36+50.00

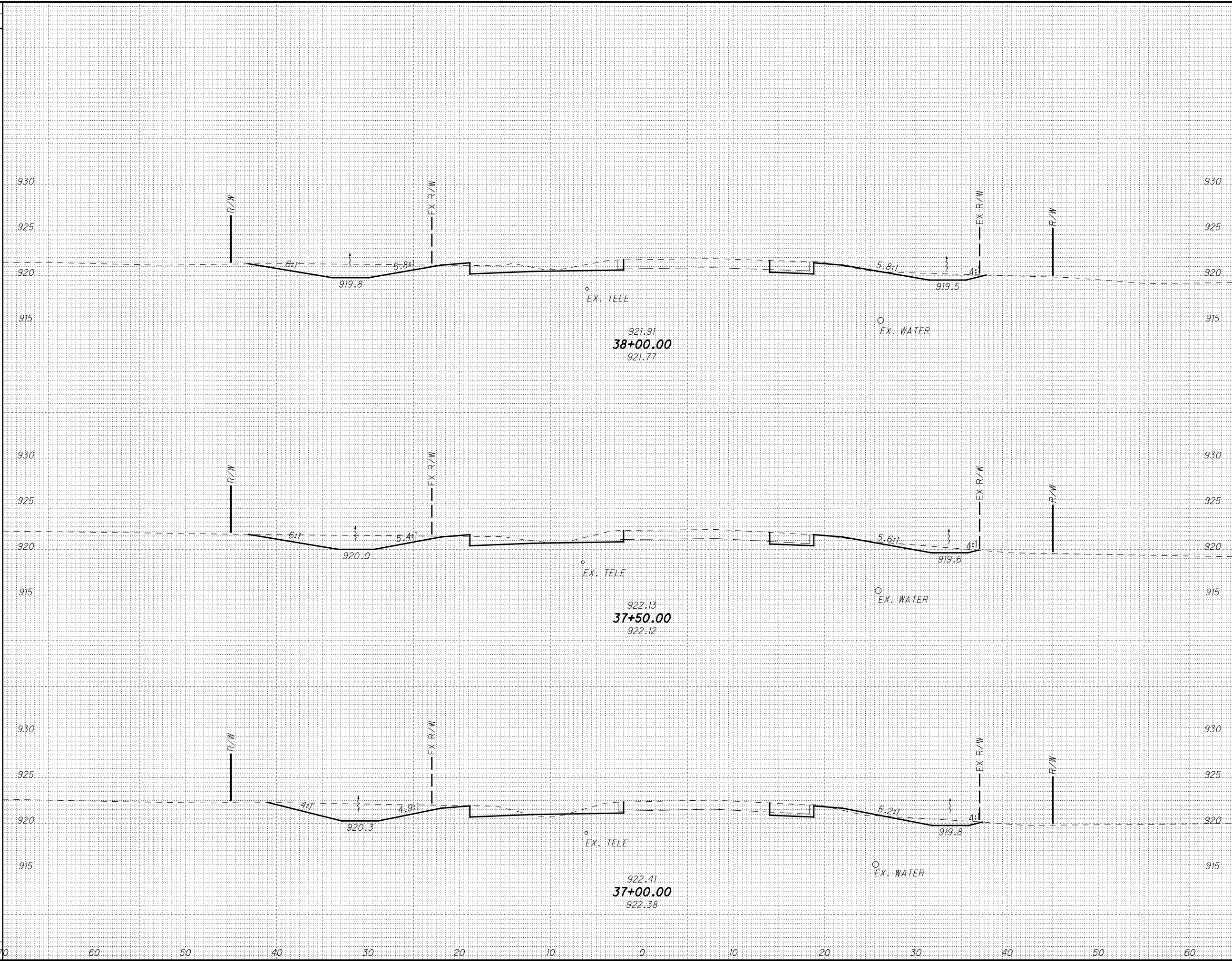
LIC-THORNWOOD

93
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:35AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 37+00.00 TO STA. 38+00.00

LIC-THORNWOOD

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SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

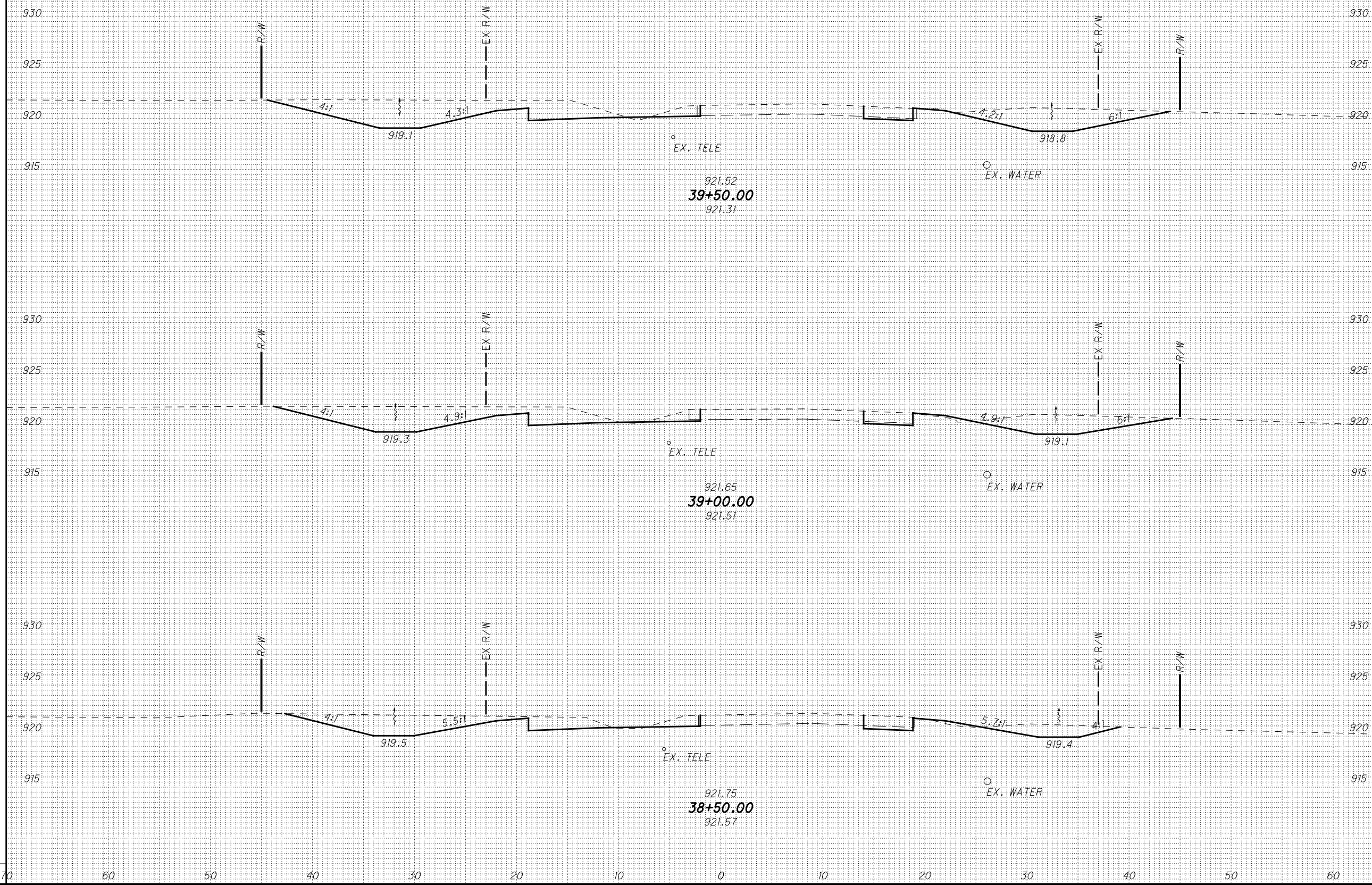
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 38+50.00 TO STA. 39+50.00

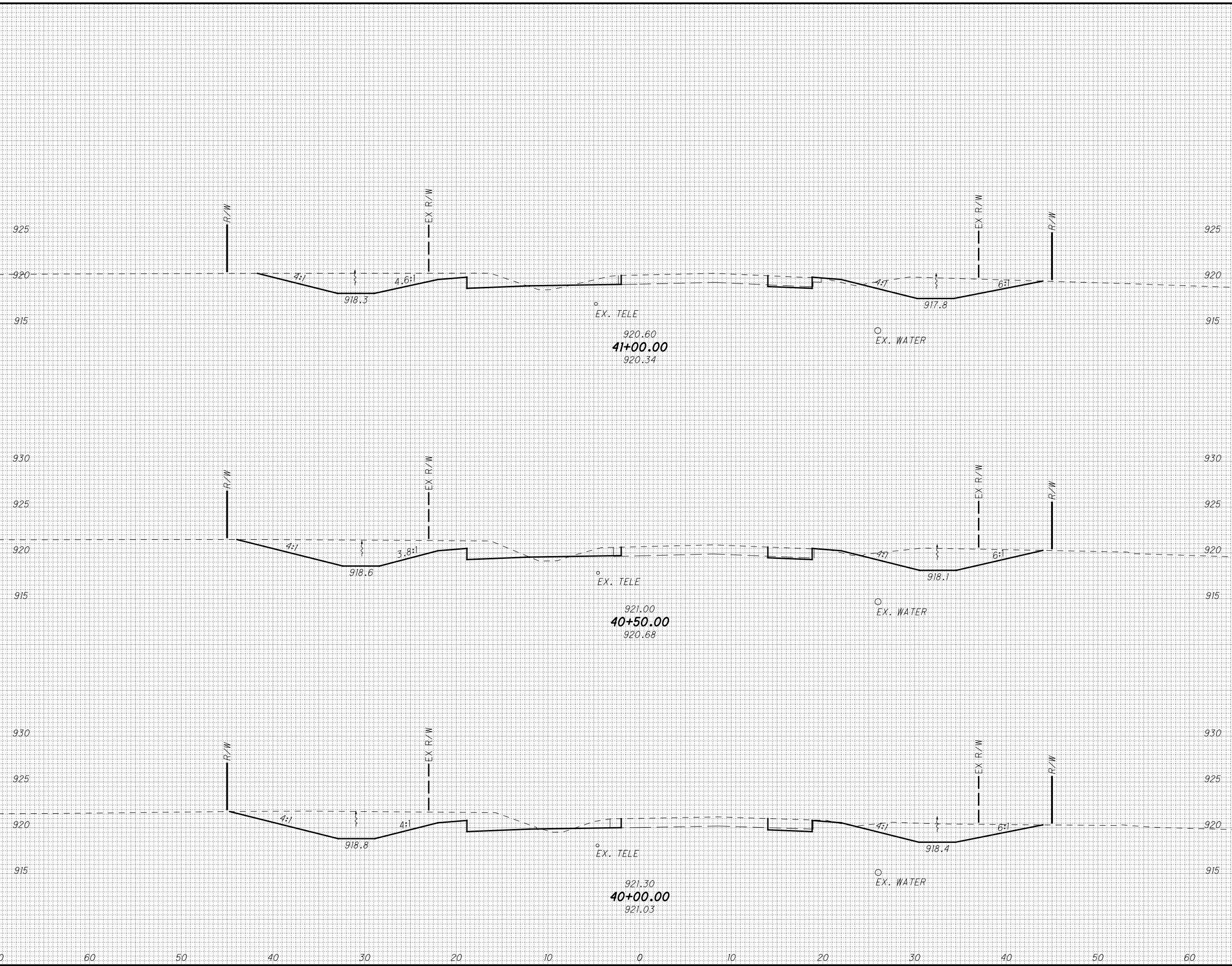
LIC-THORNWOOD

95
288



P:\PWP\dms08268\78116\S001.dgn 28-JUL-2010 8:35AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

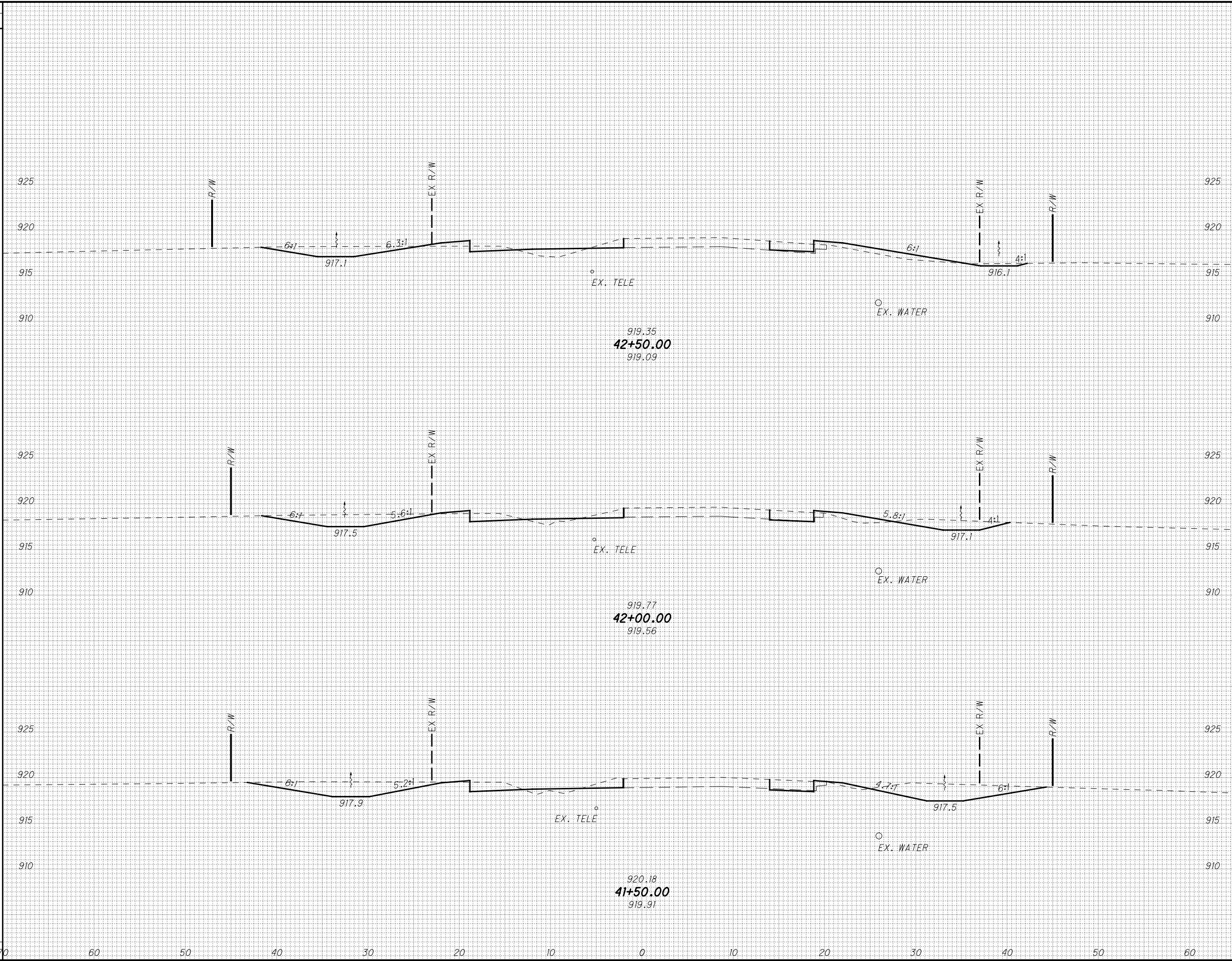
CROSS SECTIONS - THORNWOOD
STA. 40+00.00 TO STA. 41+00.00

LIC-THORNWOOD

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:36AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

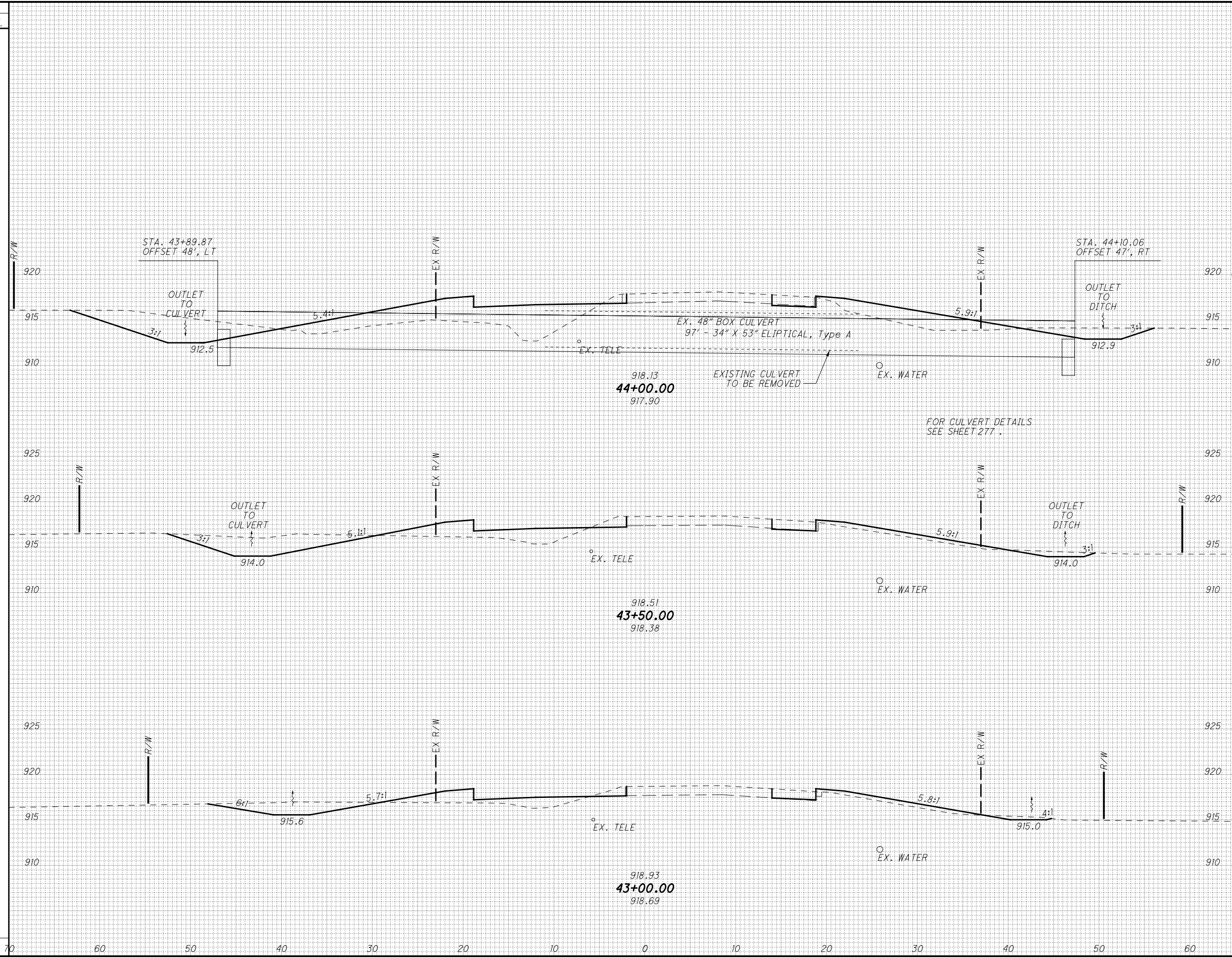
CROSS SECTIONS - THORNWOOD
STA. 41+50.00 TO STA. 42+50.00

LIC-THORNWOOD

97
288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:36AM rgreenland

SEEDING	
END WIDTH	SO. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 43+00.00 TO STA. 44+00.00

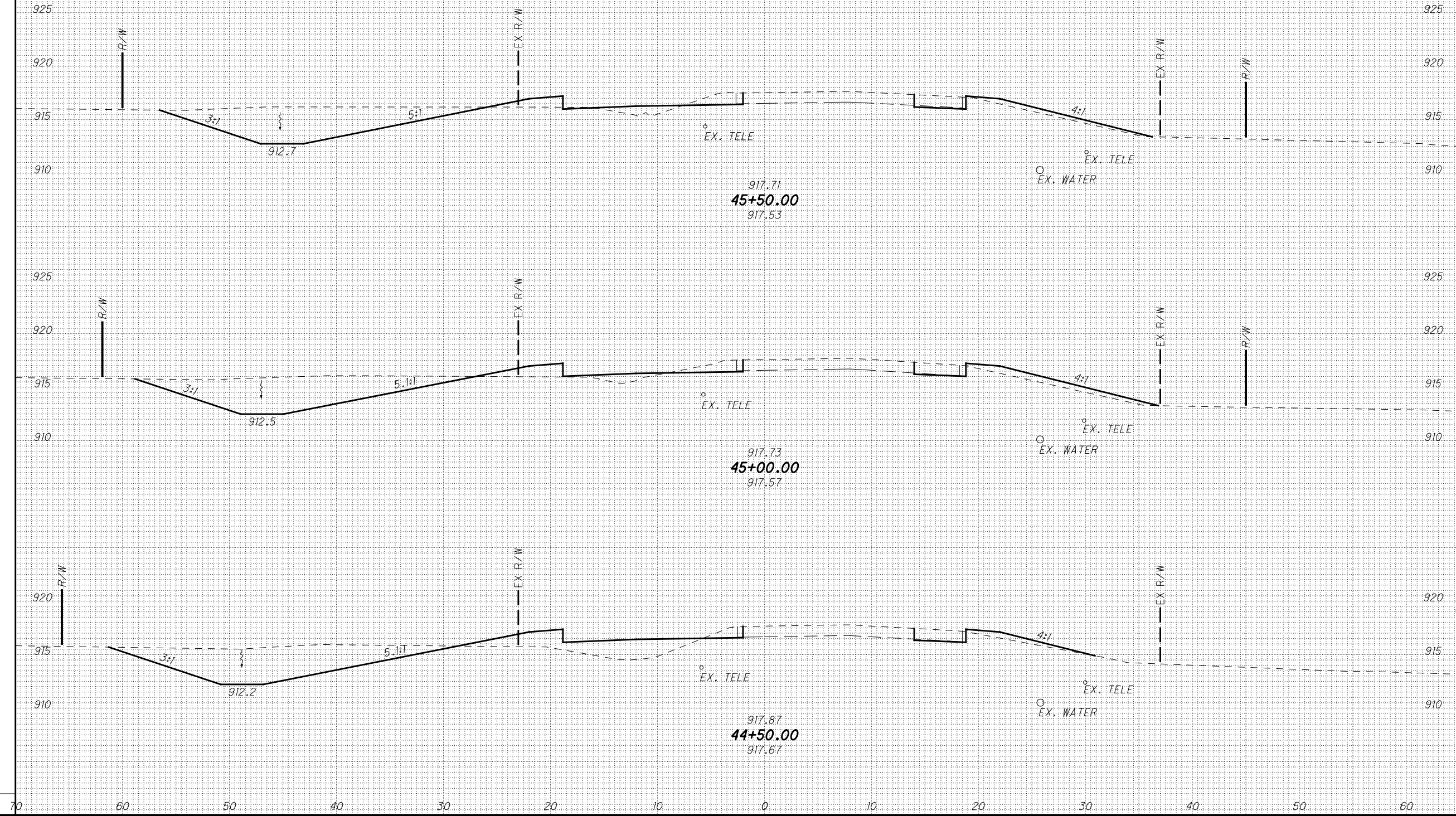
LIC-THORNWOOD

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 8:36AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 44+50.00 TO STA. 45+50.00

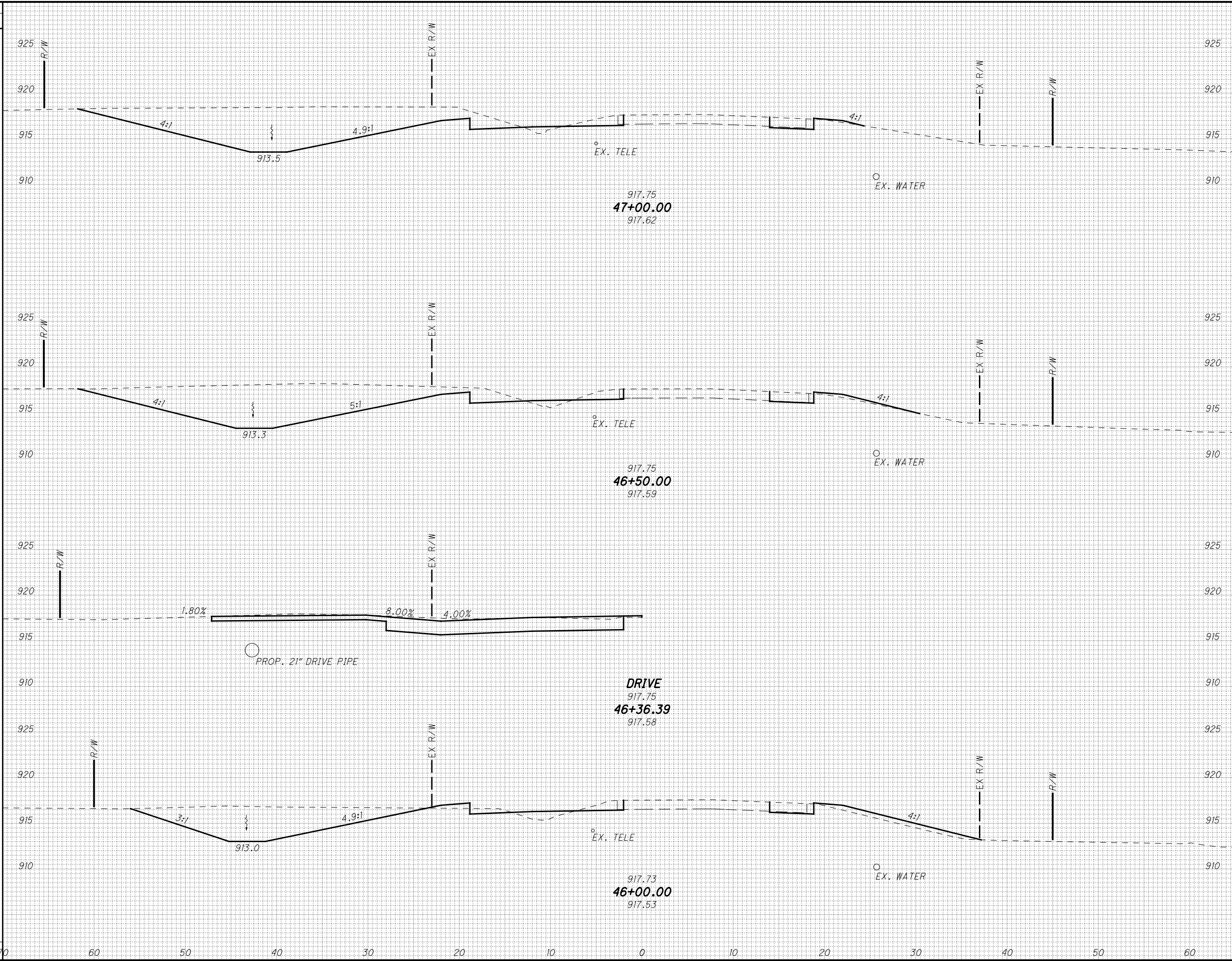
LIC-THORNWOOD

99
288

P:\PWP\dms08268\78116\X5001.dgn 28-JUL-2010 8:36AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
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10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

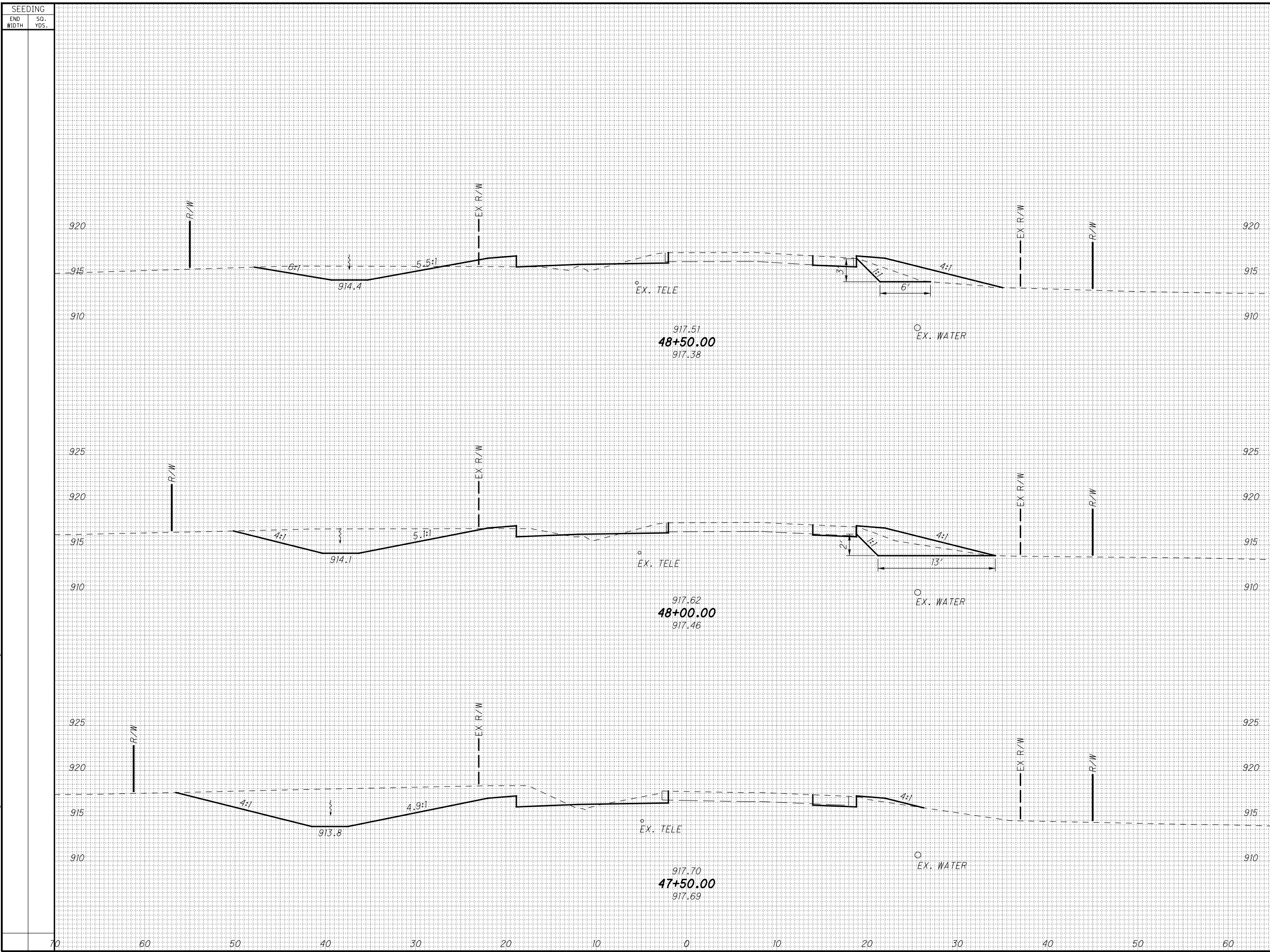
CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
STA. 46+00.00 TO STA. 47+00.00

LIC-THORNWOOD

100
288

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 47+50.00 TO STA. 48+50.00

LIC-THORNWOOD

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:36AM rgreenland

SEEDING
END WIDTH SQ. YDS.

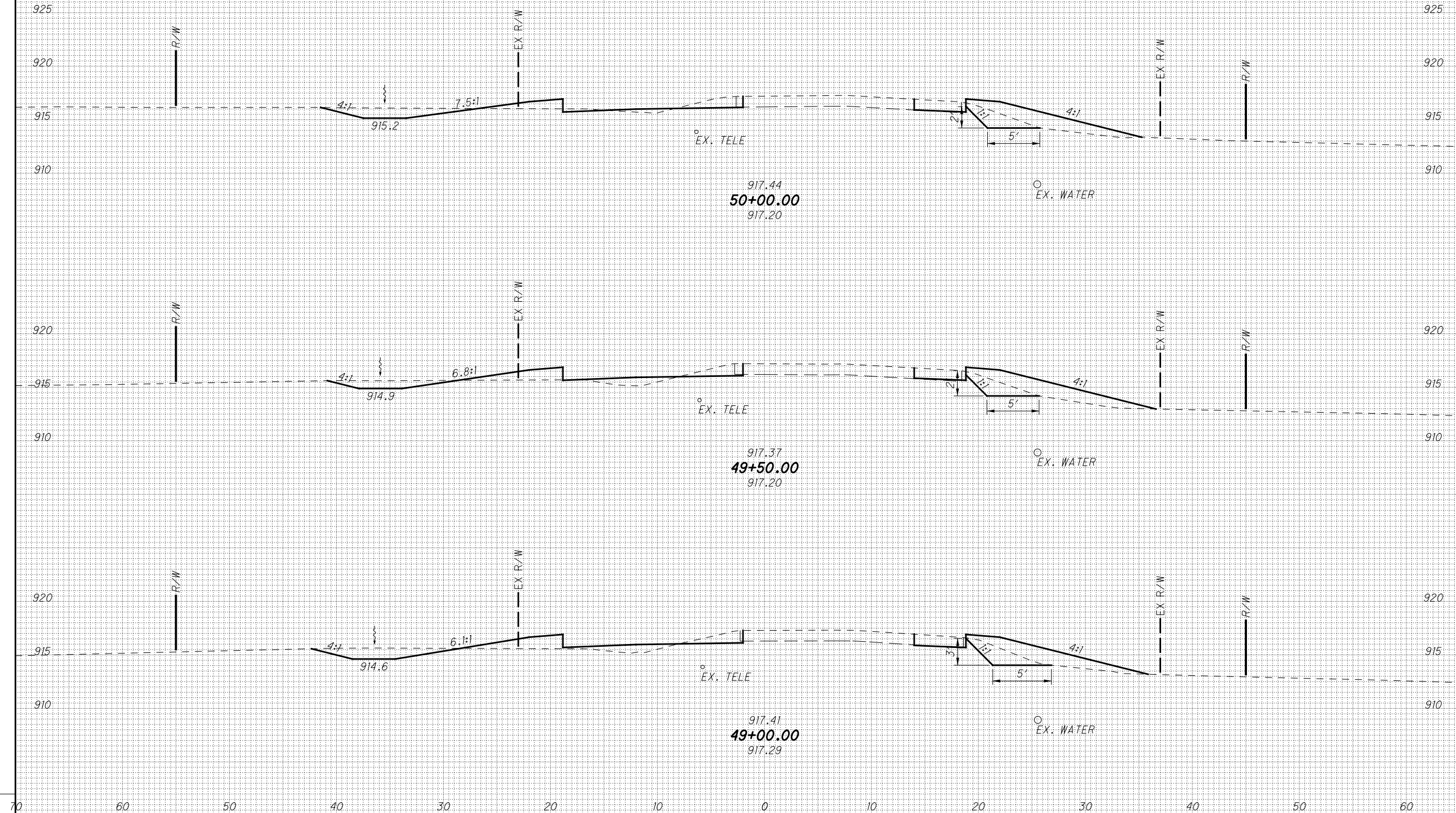
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

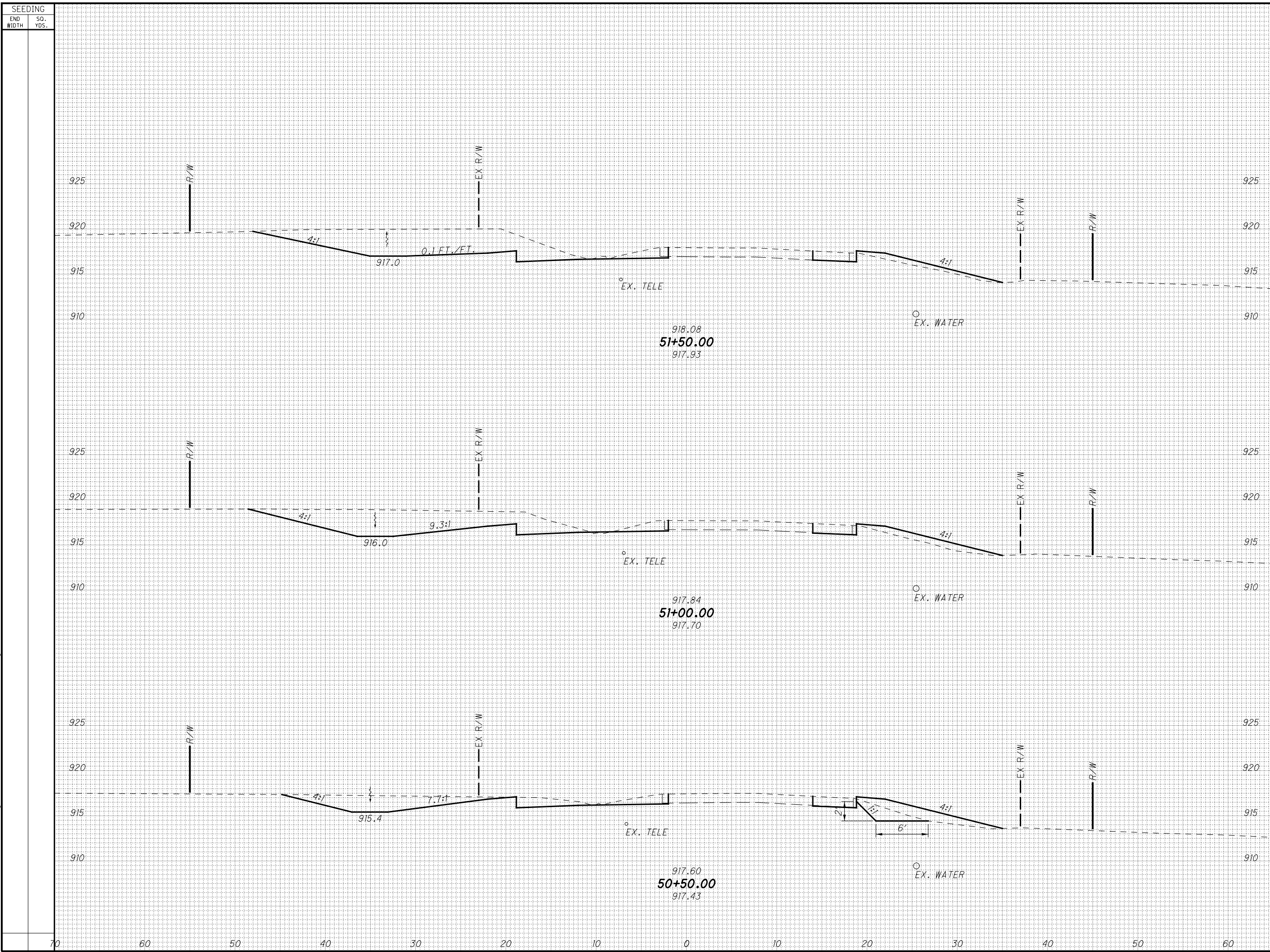
CROSS SECTIONS - THORNWOOD
STA. 49+00.00 TO STA. 50+00.00

LIC-THORNWOOD

102
288



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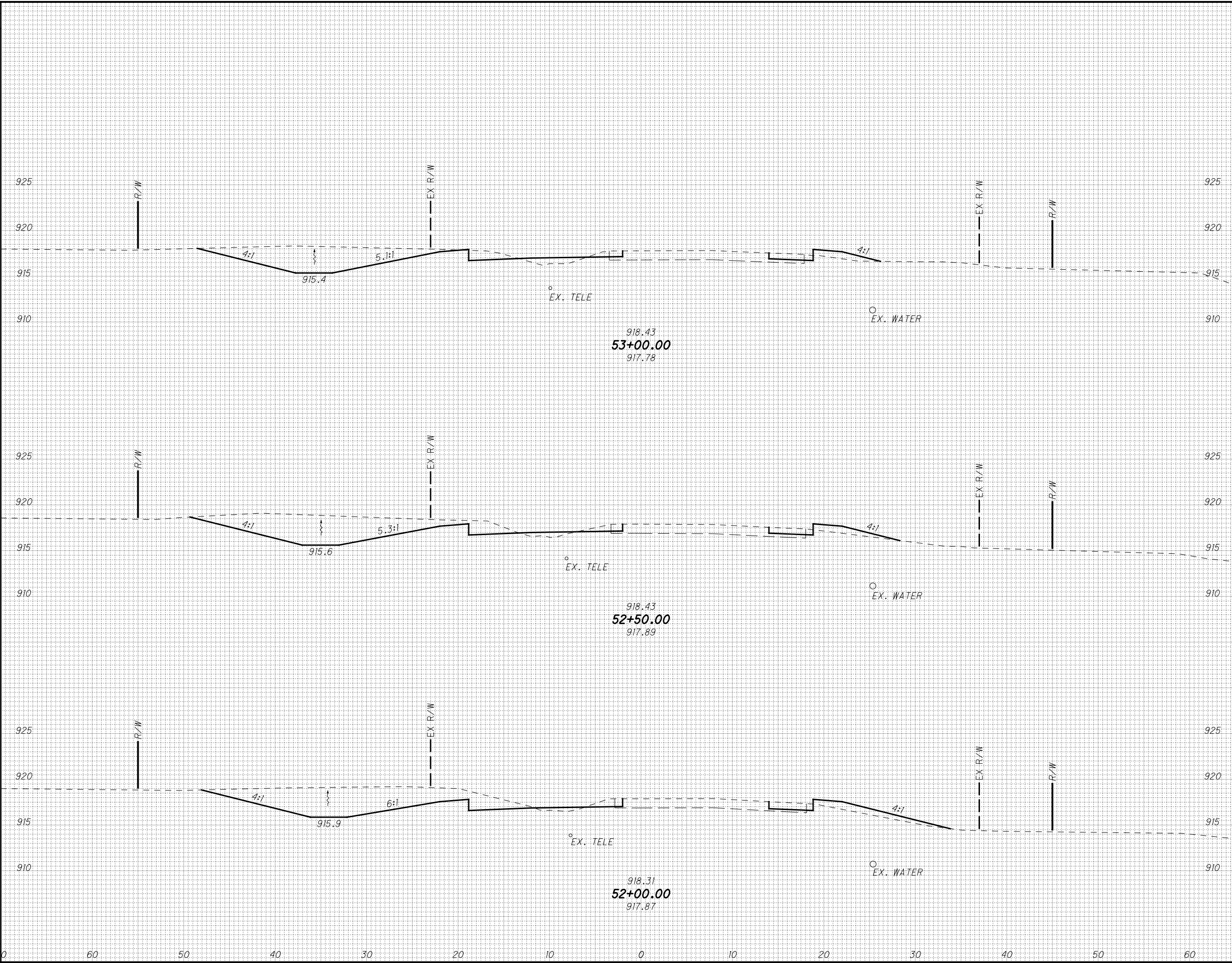
SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

CALCULATED MMB CHECKED JEL
CROSS SECTIONS - THORNWOOD
STA. 50+50.00 TO STA. 51+50.00
LIC-THORNWOOD
 103
 288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:37AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 52+00.00 TO STA. 53+00.00

LIC-THORNWOOD

104
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:37AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

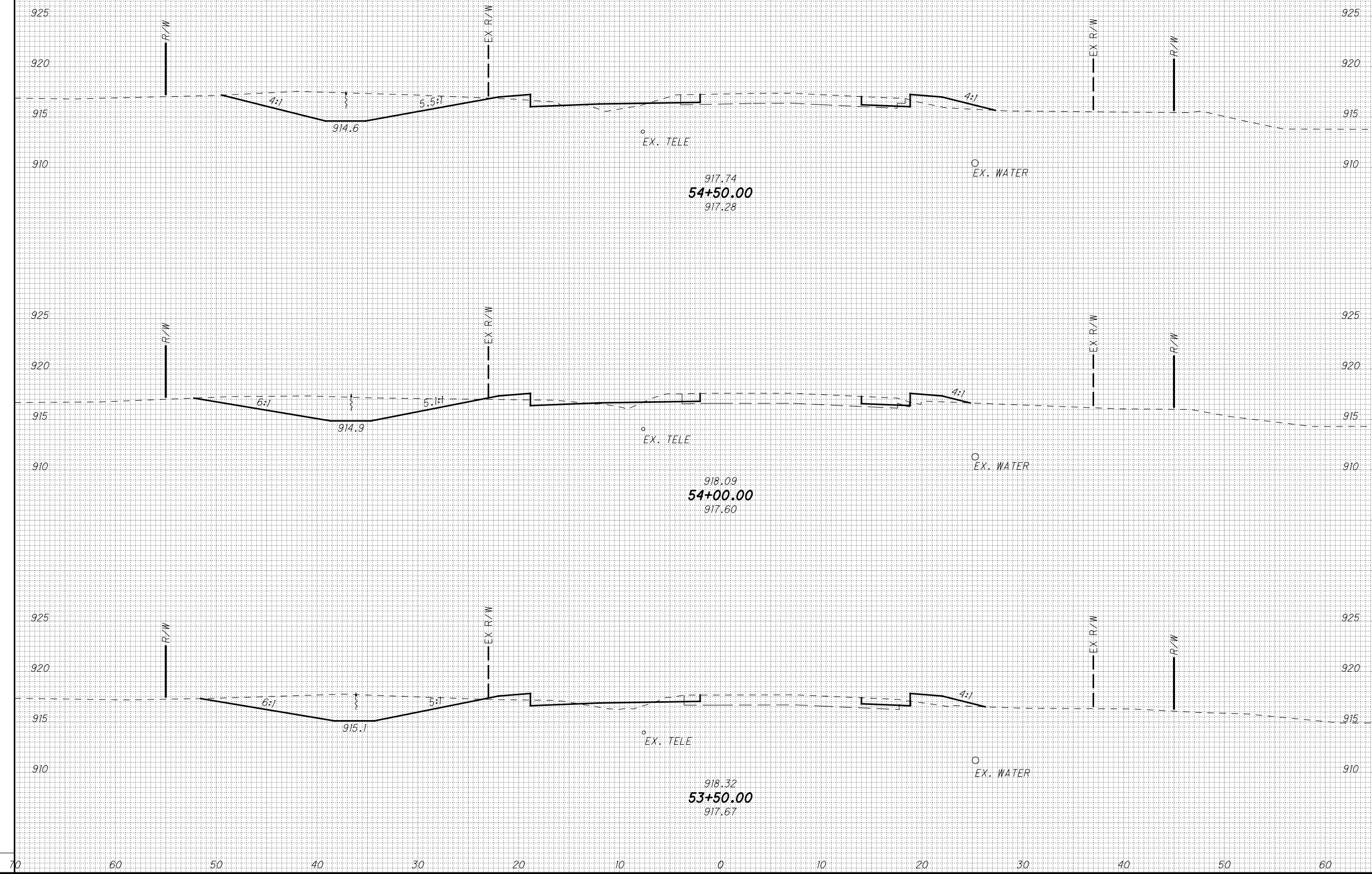
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

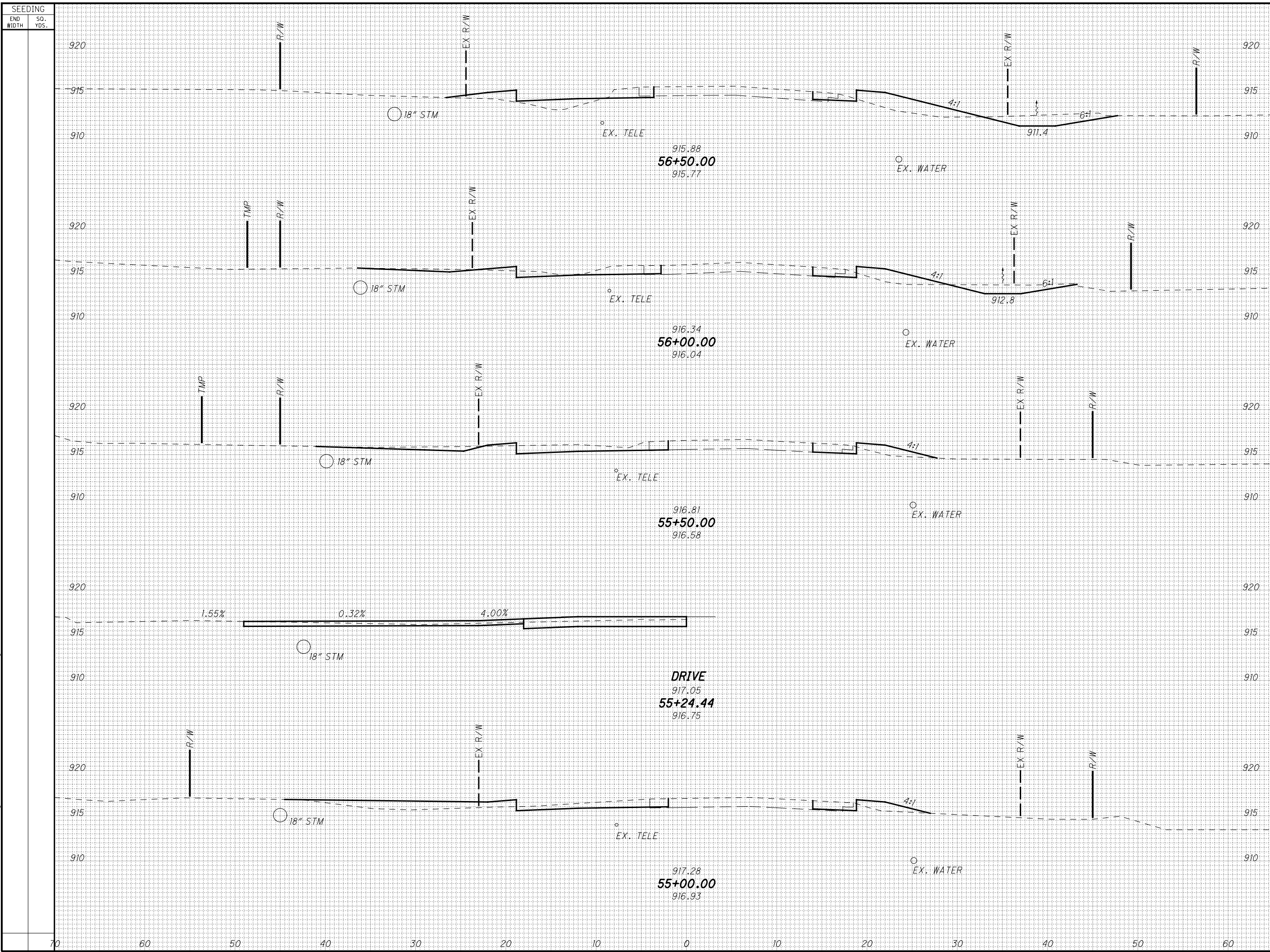
CROSS SECTIONS - THORNWOOD
STA. 53+50.00 TO STA. 54+50.00

LIC-THORNWOOD

105
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:37AM rgreenland



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

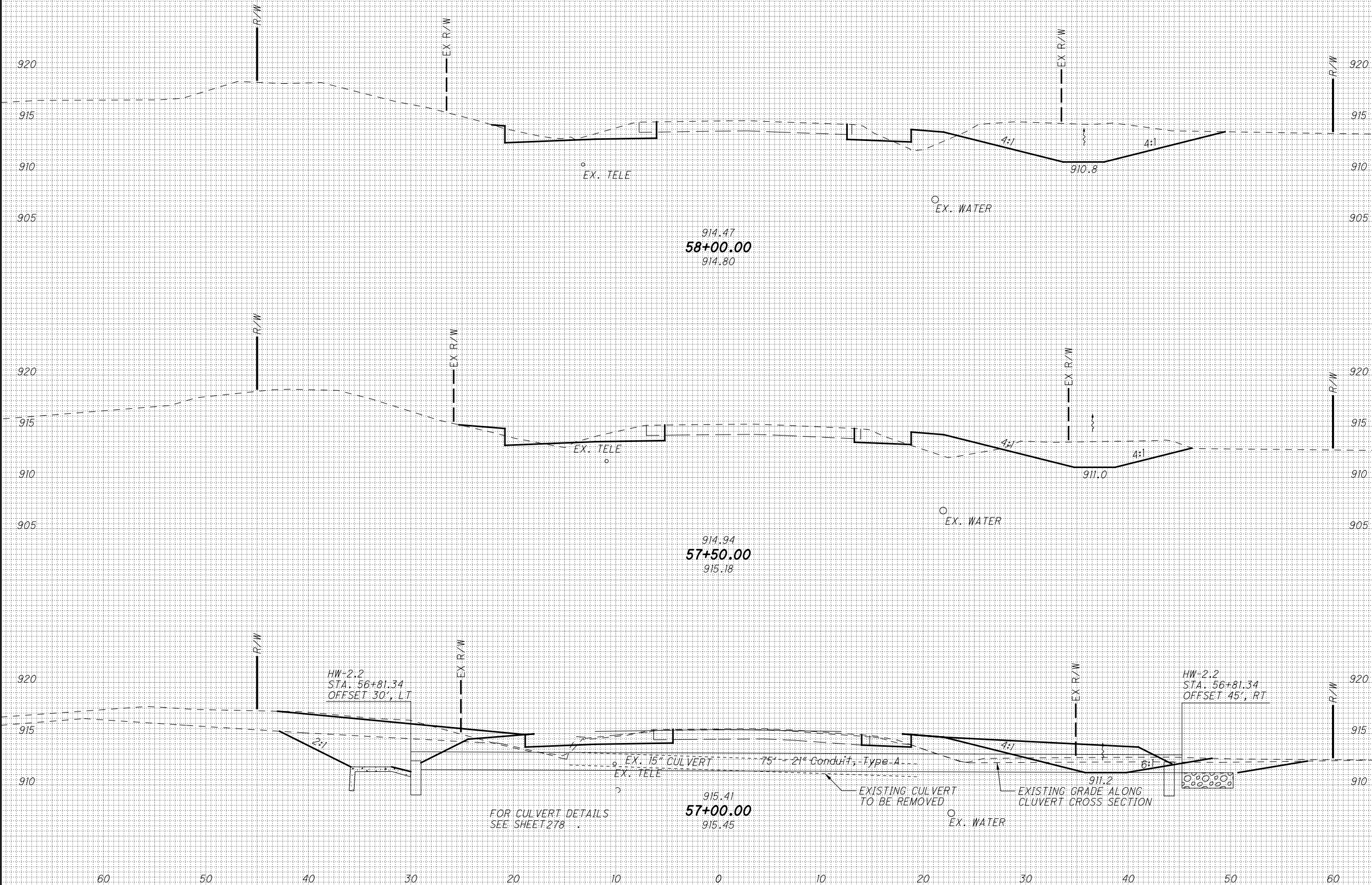
**CROSS SECTIONS - THORNWOOD
STA. 55+00.00 TO STA. 56+50.00**

LIC-THORNWOOD

P:\PWP\dms08268\78116XS001.dgn 28-JUL-2010 8:37AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB CHECKED
JEL

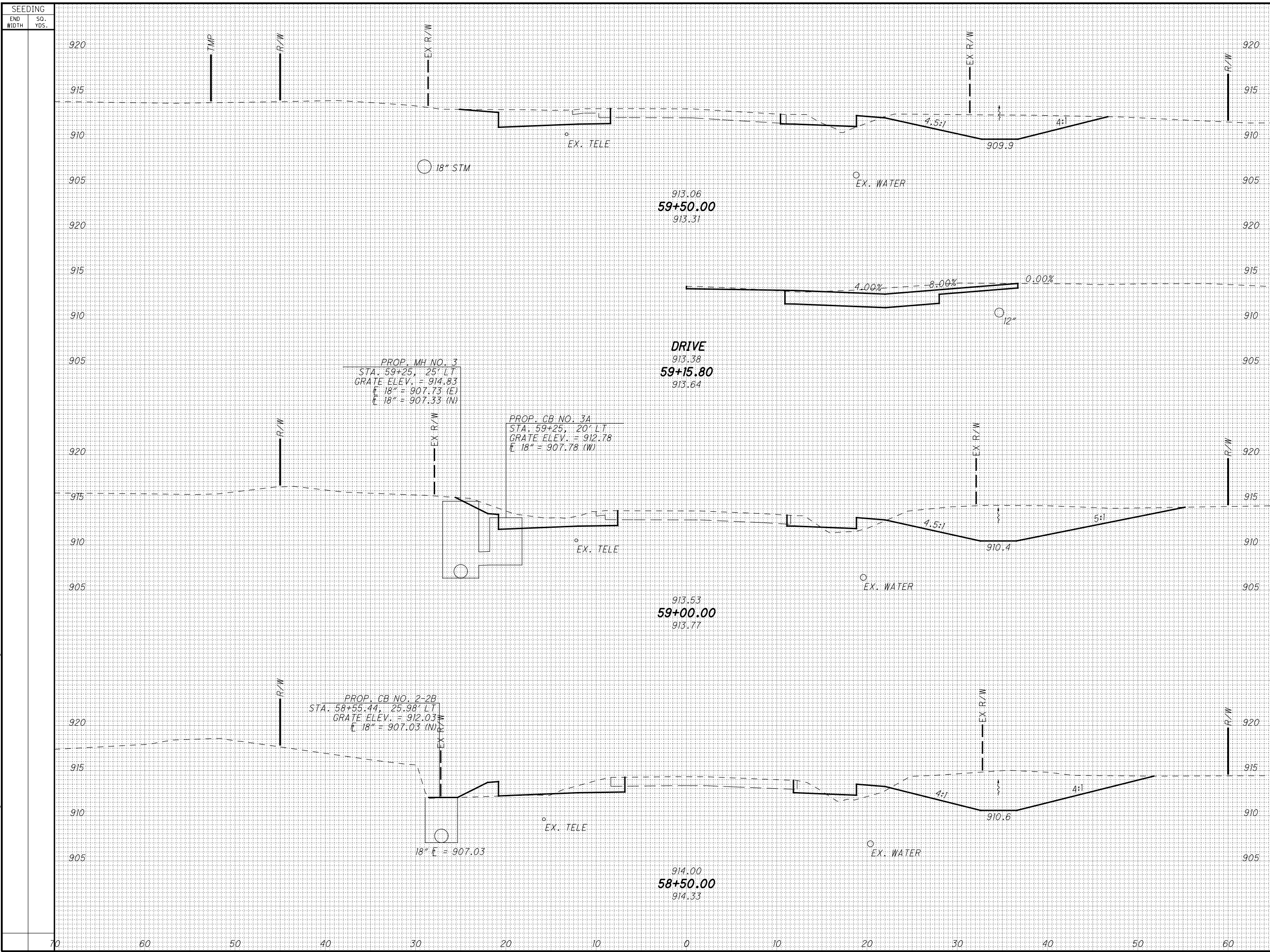


CROSS SECTIONS - THORNWOOD
STA. 57+00.00 TO STA. 58+00.00

LIC-THORNWOOD

107
288

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SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 58+50.00 TO STA. 59+50.00

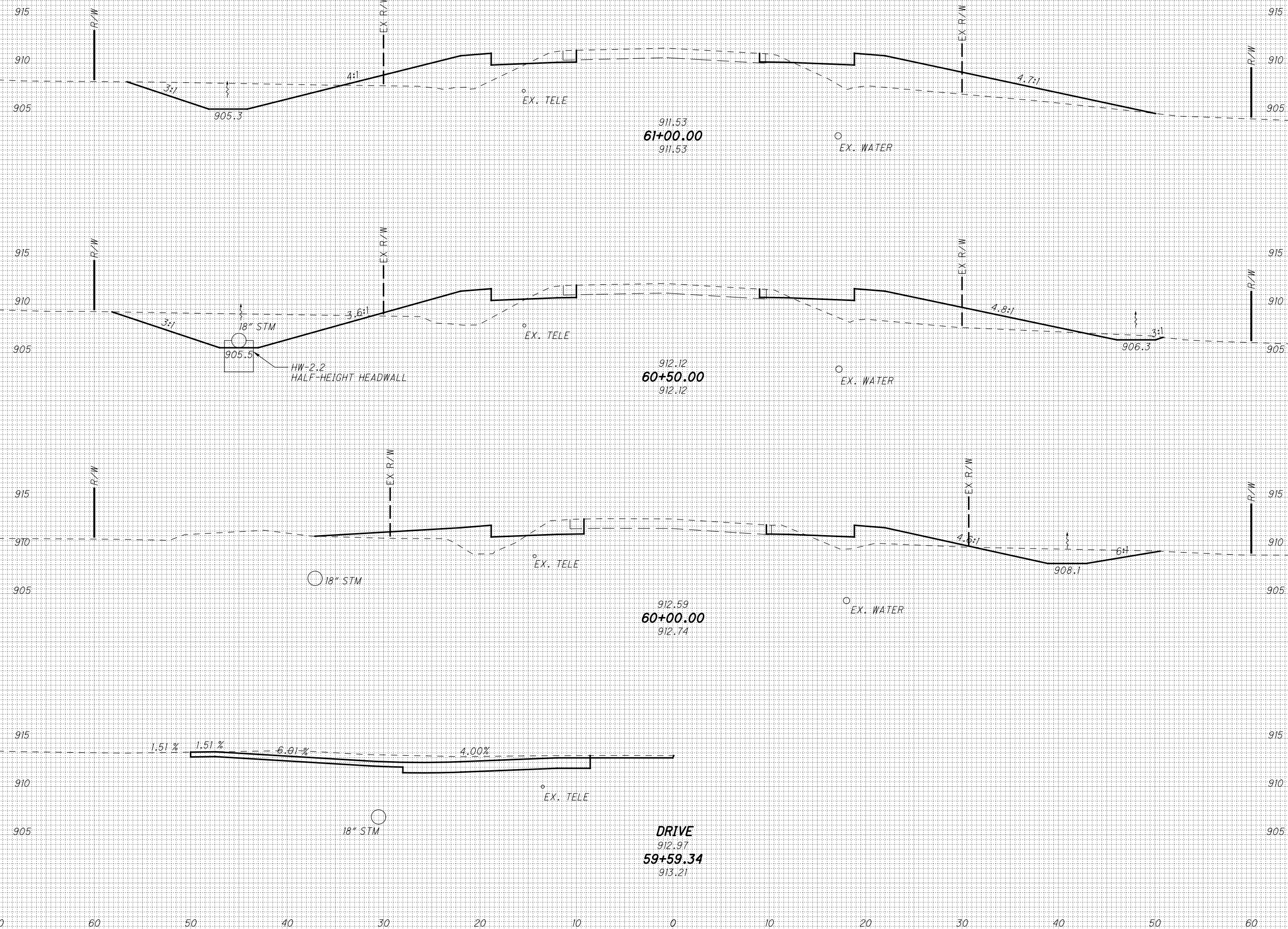
LIC-THORNWOOD

108
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:38AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL



CROSS SECTIONS - THORNWOOD
STA. 59+59.34 TO STA. 61+00.00

LIC-THORNWOOD

IP_PWP:dms08268\78116\5001.dgn 28-JUL-2010 8:38AM rgreenland

SEEDING
END WIDTH SQ. YDS.

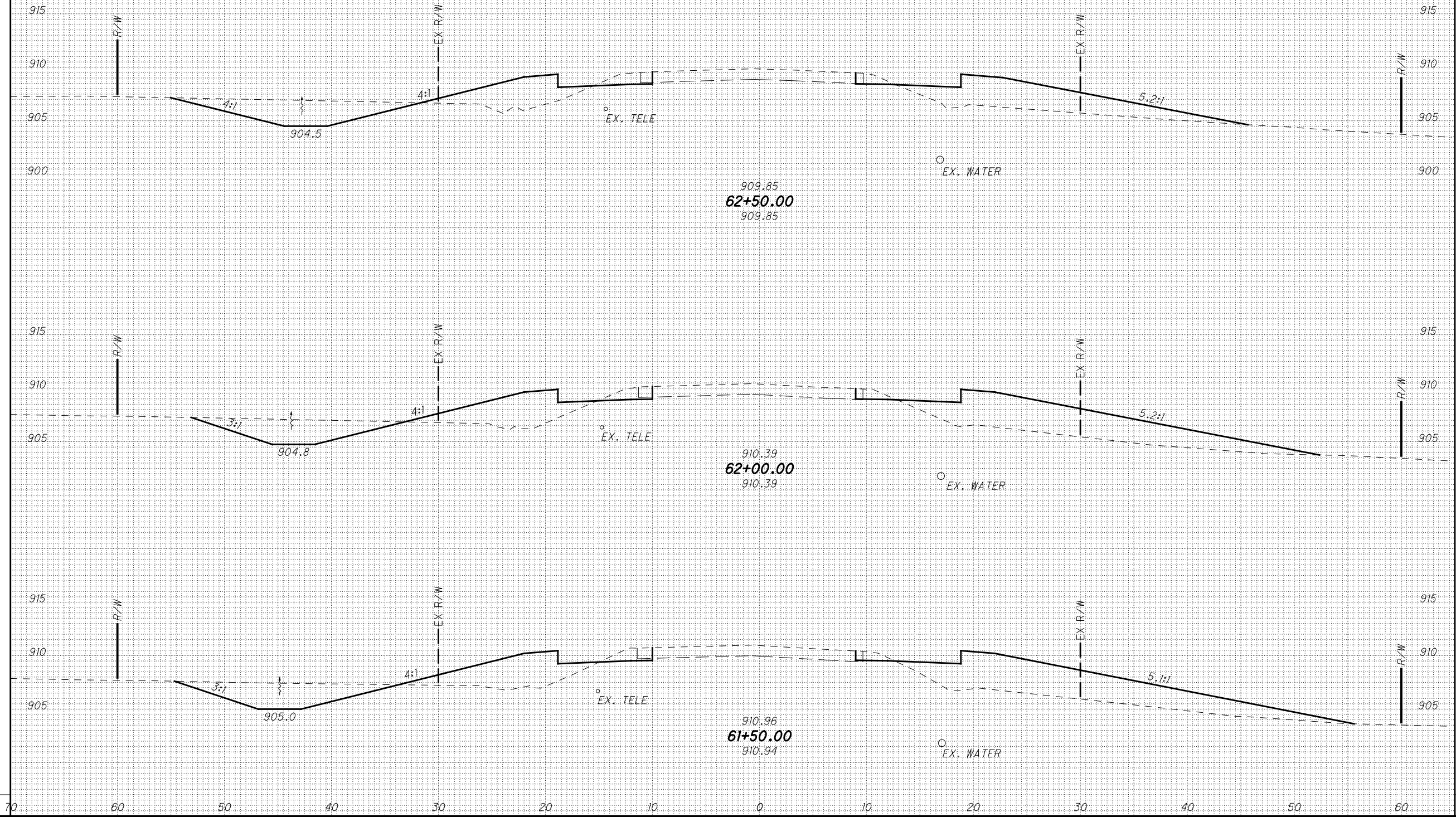
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 61+50.00 TO STA. 62+50.00

LIC-THORNWOOD

110
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:38AM rgreenland

SEEDING	
END WIDTH	SQ. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

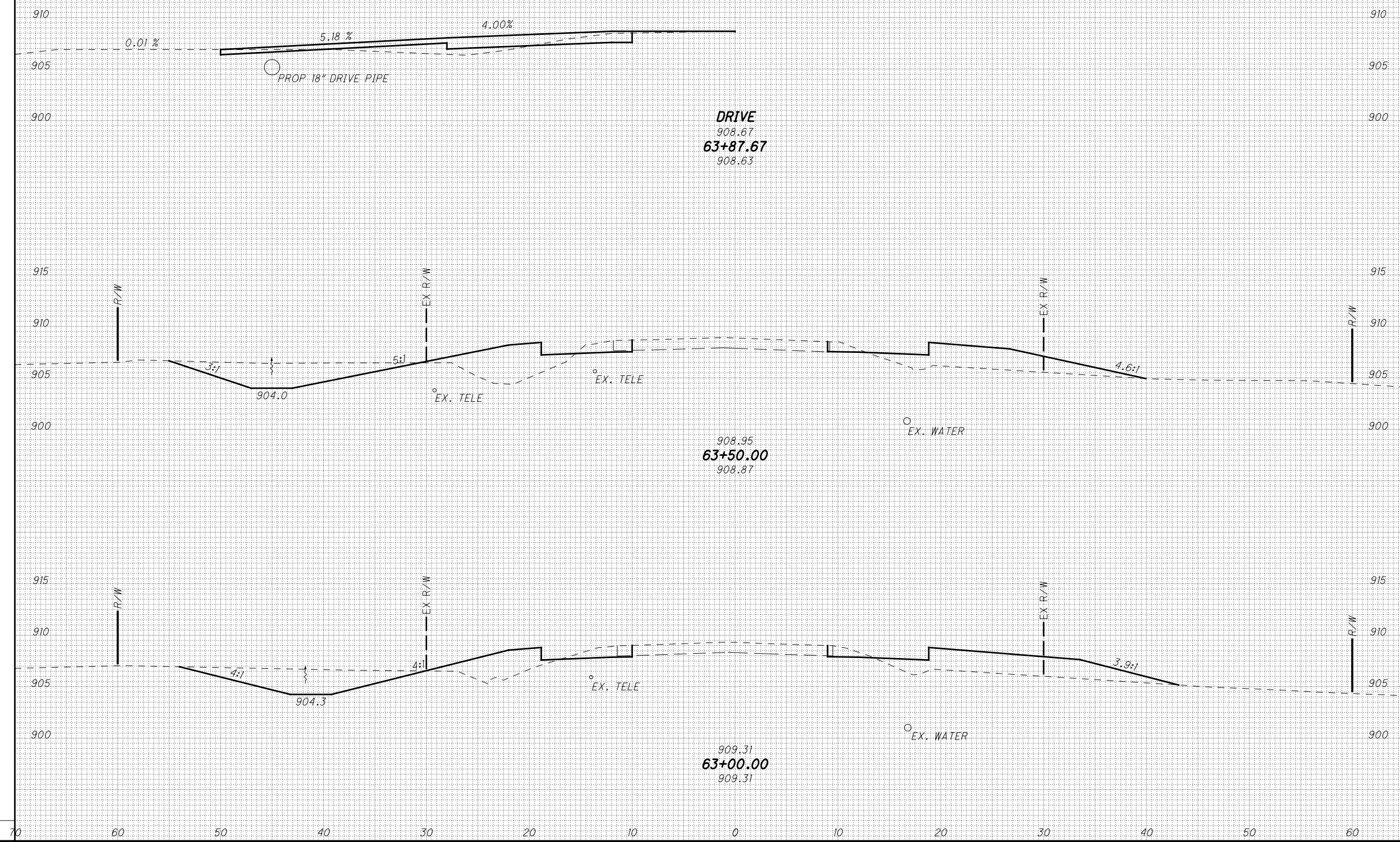
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 63+00.00 TO STA. 63+87.67

LIC-THORNWOOD

111
288



DRIVE
908.67
63+87.67
908.63

908.95
63+50.00
908.87

909.31
63+00.00
909.31

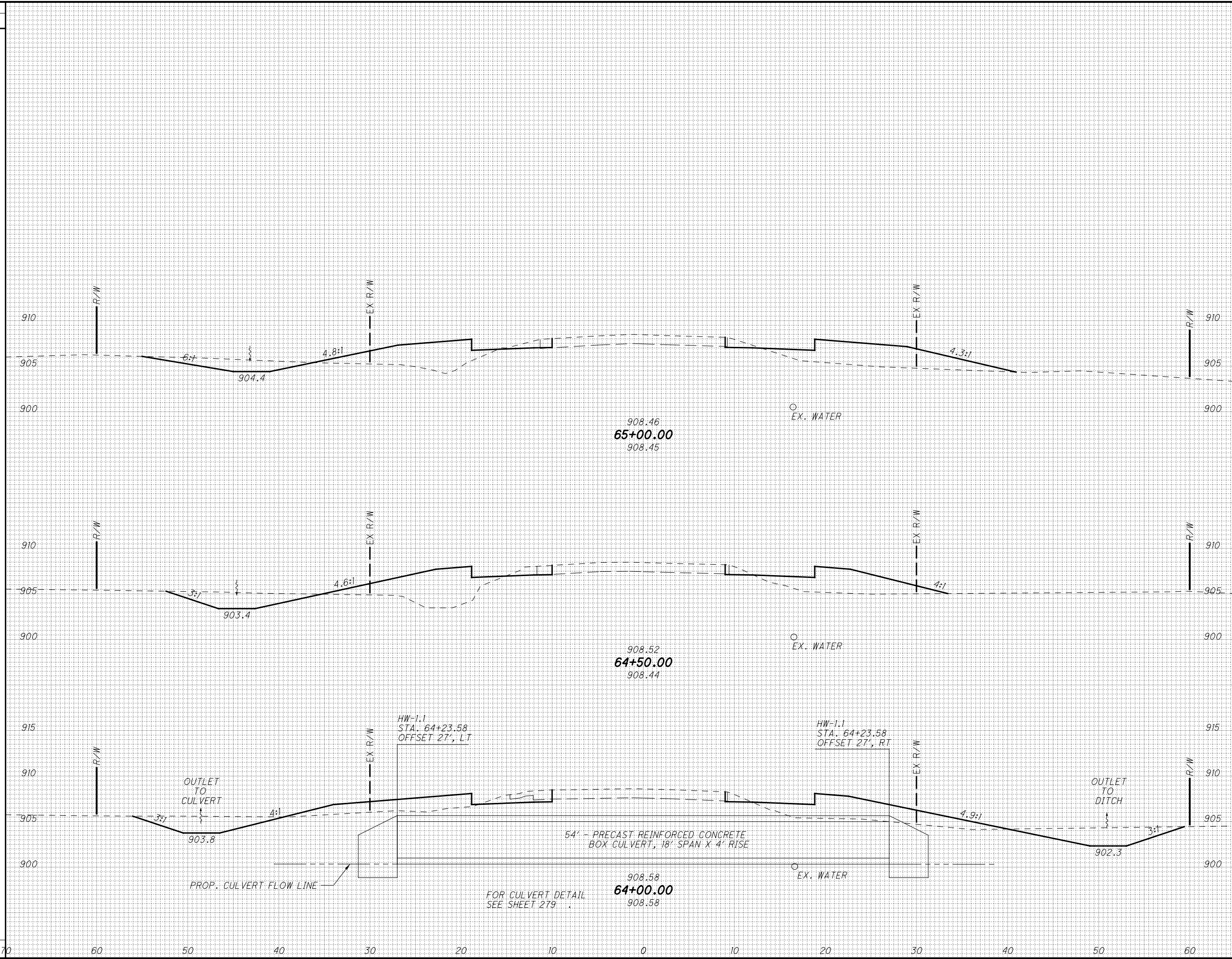
IP_PWP:dms08268\78116\S001.dgn 28-JUL-2010 8:38AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

**CROSS SECTIONS - THORNWOOD
STA. 64+00.00 TO STA. 65+00.00**

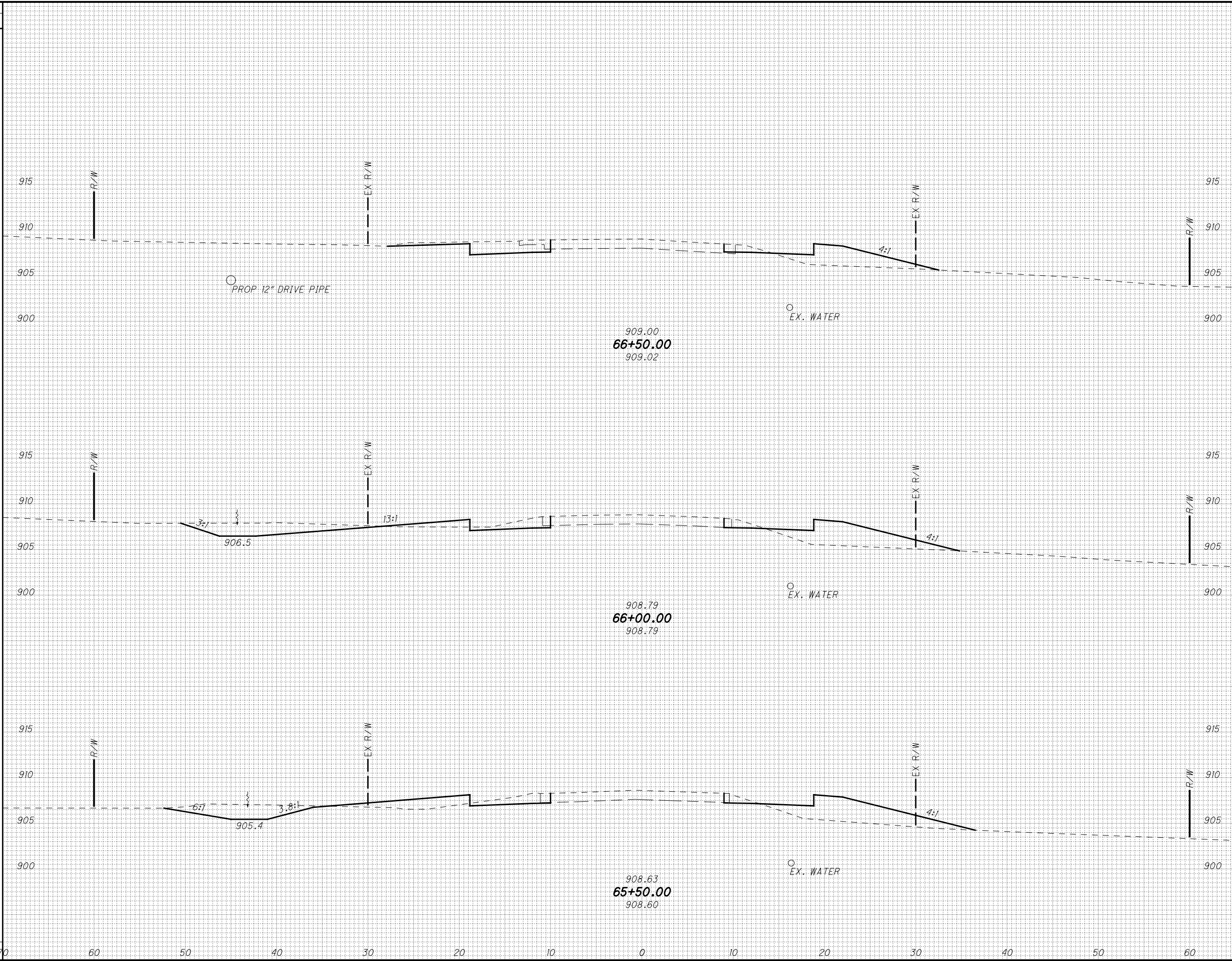
LIC-THORNWOOD



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:38AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

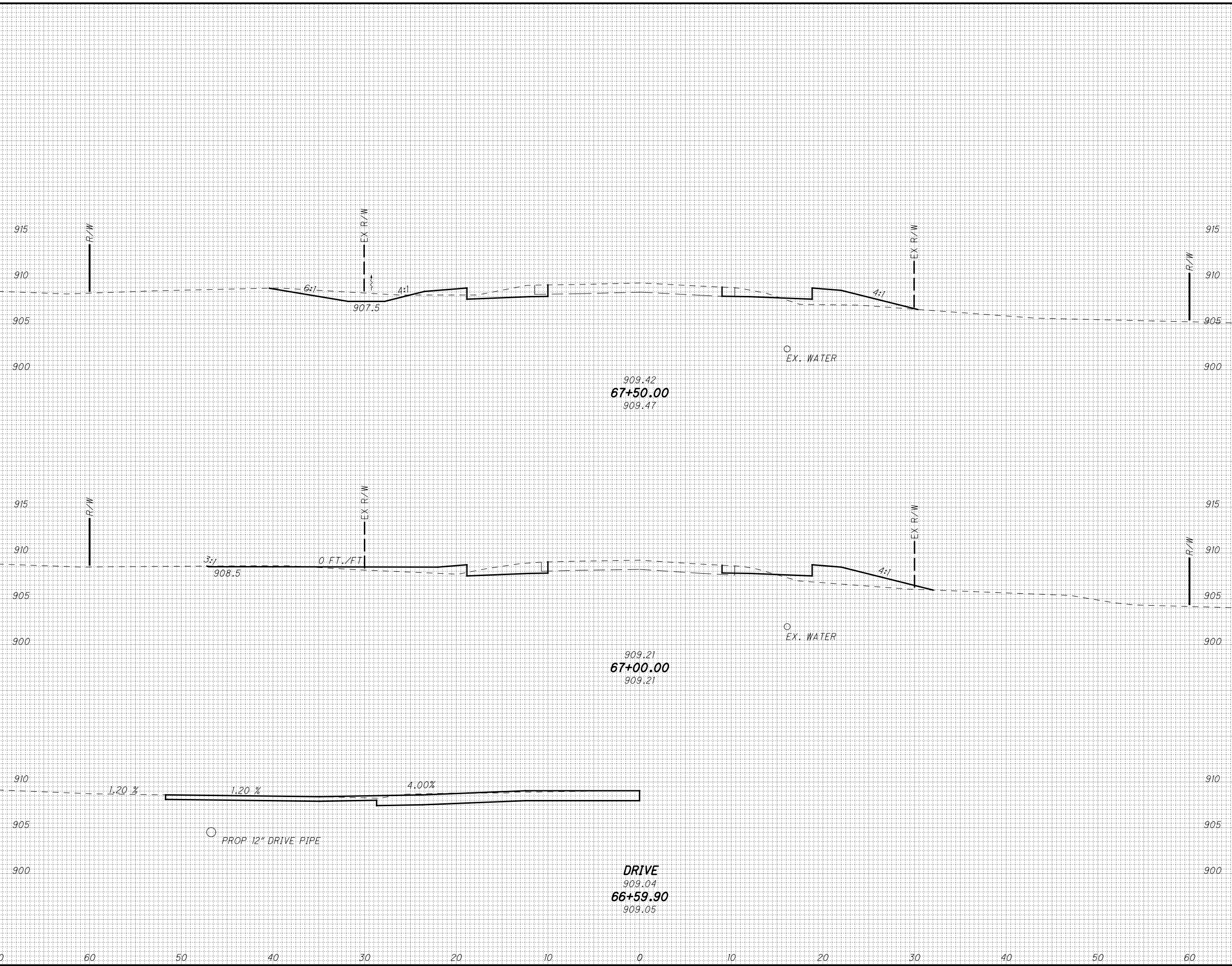
CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 65+50.00 TO STA. 66+50.00

LIC-THORNWOOD

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:38AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 66+59.90 TO STA. 67+50.00

LIC-THORNWOOD

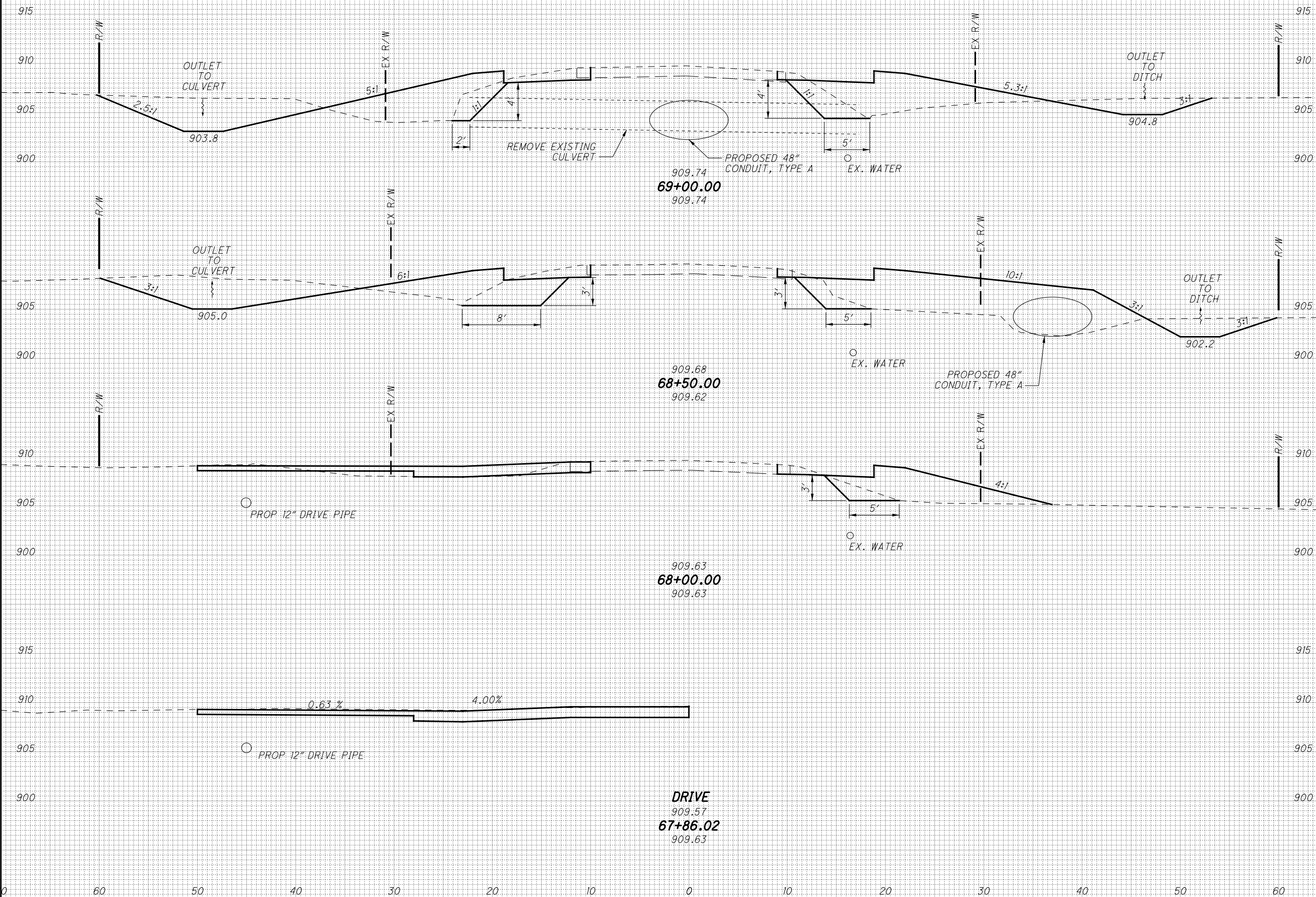
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

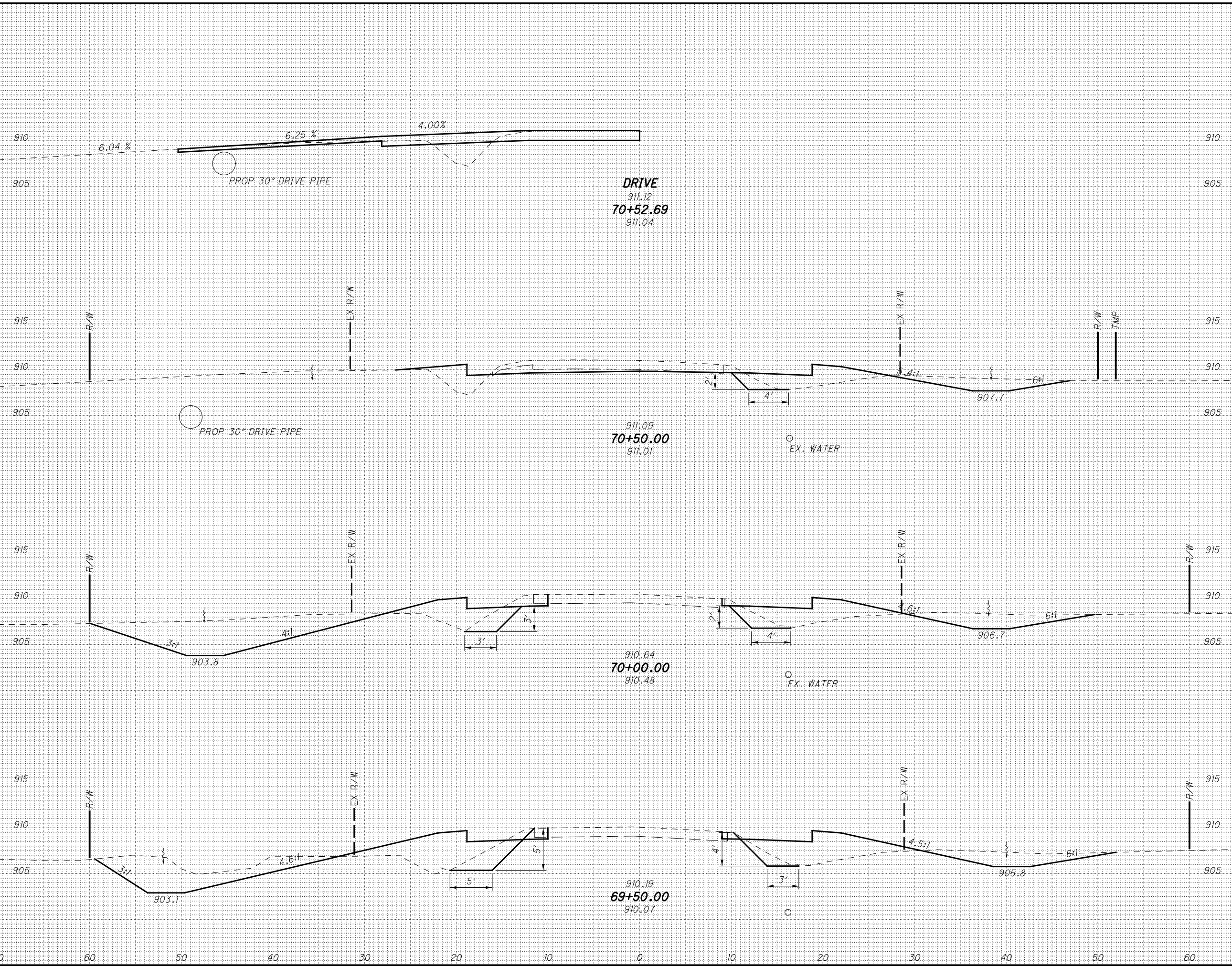
CROSS SECTIONS - THORNWOOD
STA. 67+86.02 TO STA. 69+00.00

LIC-THORNWOOD



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SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 69+50.00 TO STA. 70+52.69

LIC-THORNWOOD

IP_PWP-dms08268\78116X5001.dgn 28-JUL-2010 8:39AM rgreenland

SEEDING
END WIDTH SQ. YDS.

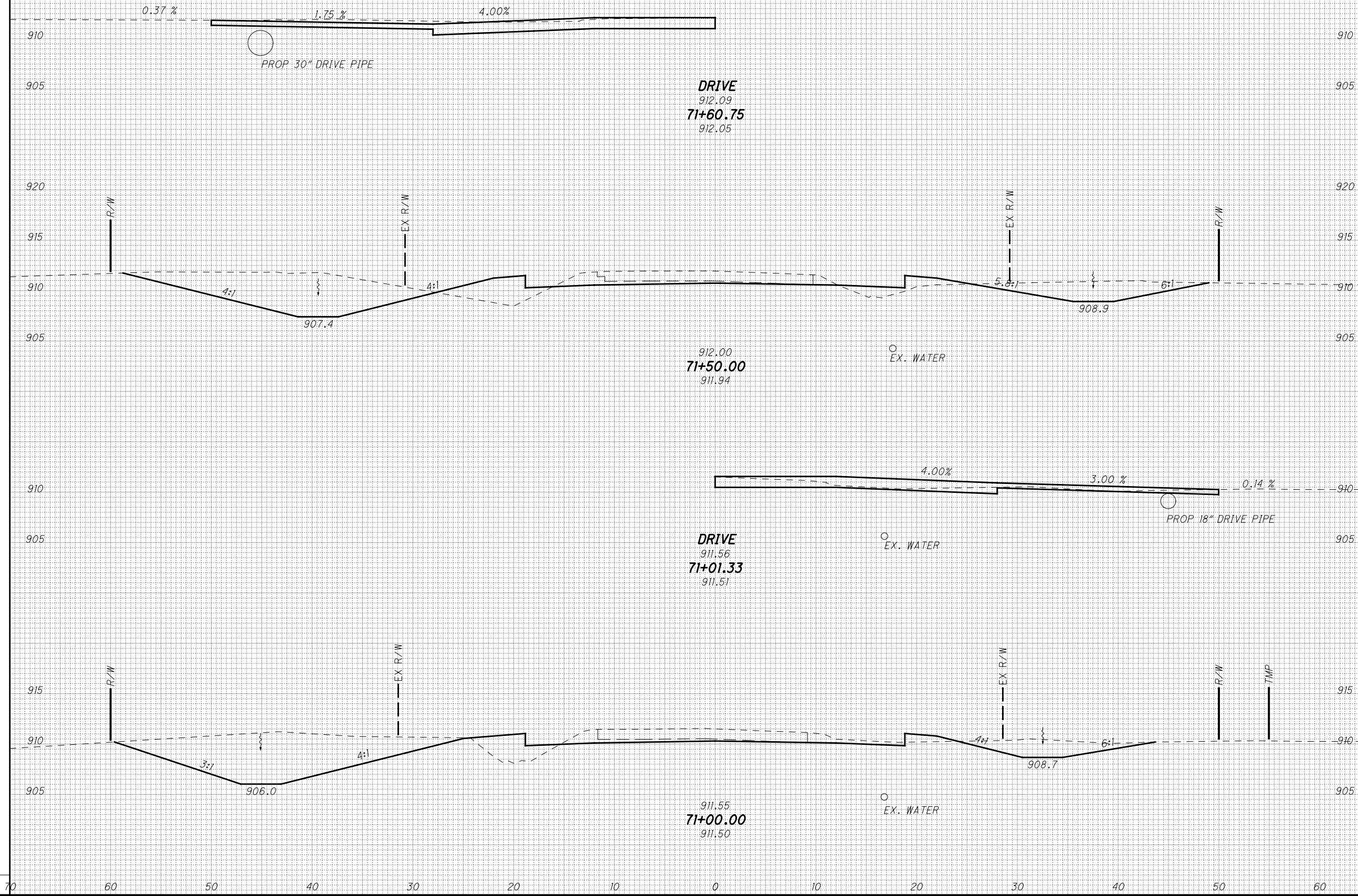
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 71+00.00 TO STA. 71+60.75

LIC-THORNWOOD

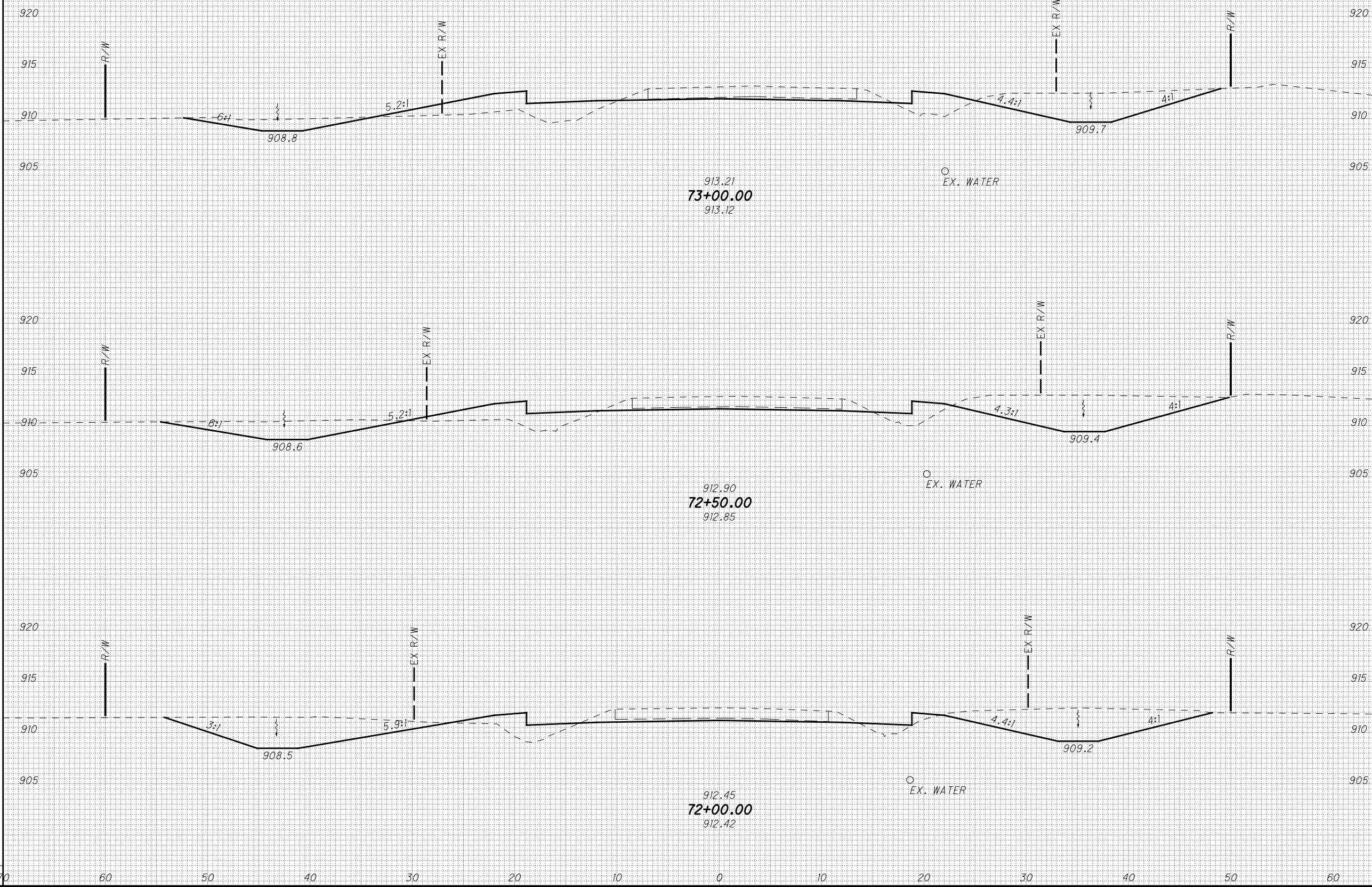
117
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:39AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
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0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 72+00.00 TO STA. 73+00.00

LIC-THORNWOOD

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:39AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	
70	

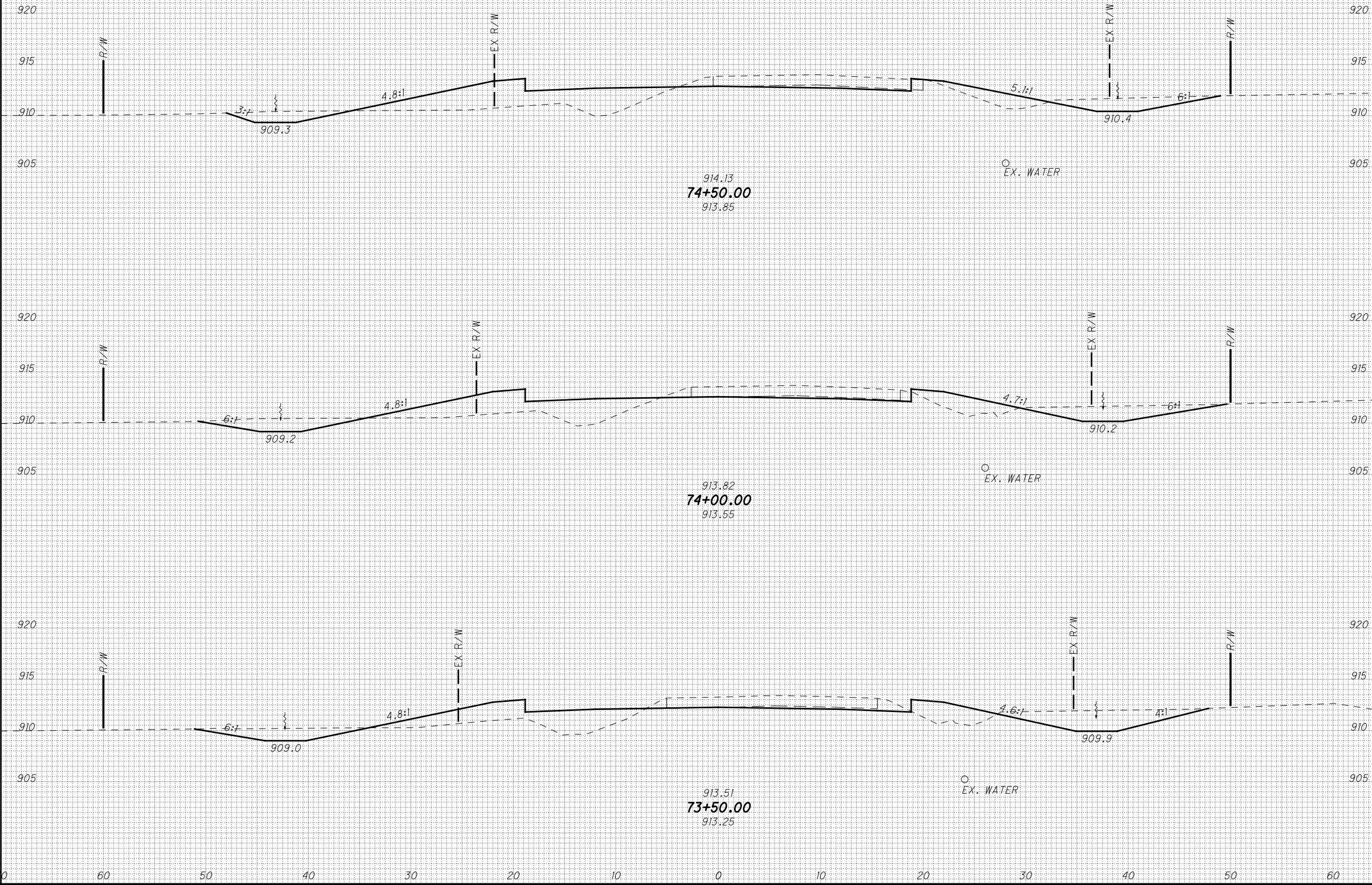
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED	JEL
MMB		

CROSS SECTIONS - THORNWOOD
STA. 73+50.00 TO STA. 74+50.00

LIC-THORNWOOD

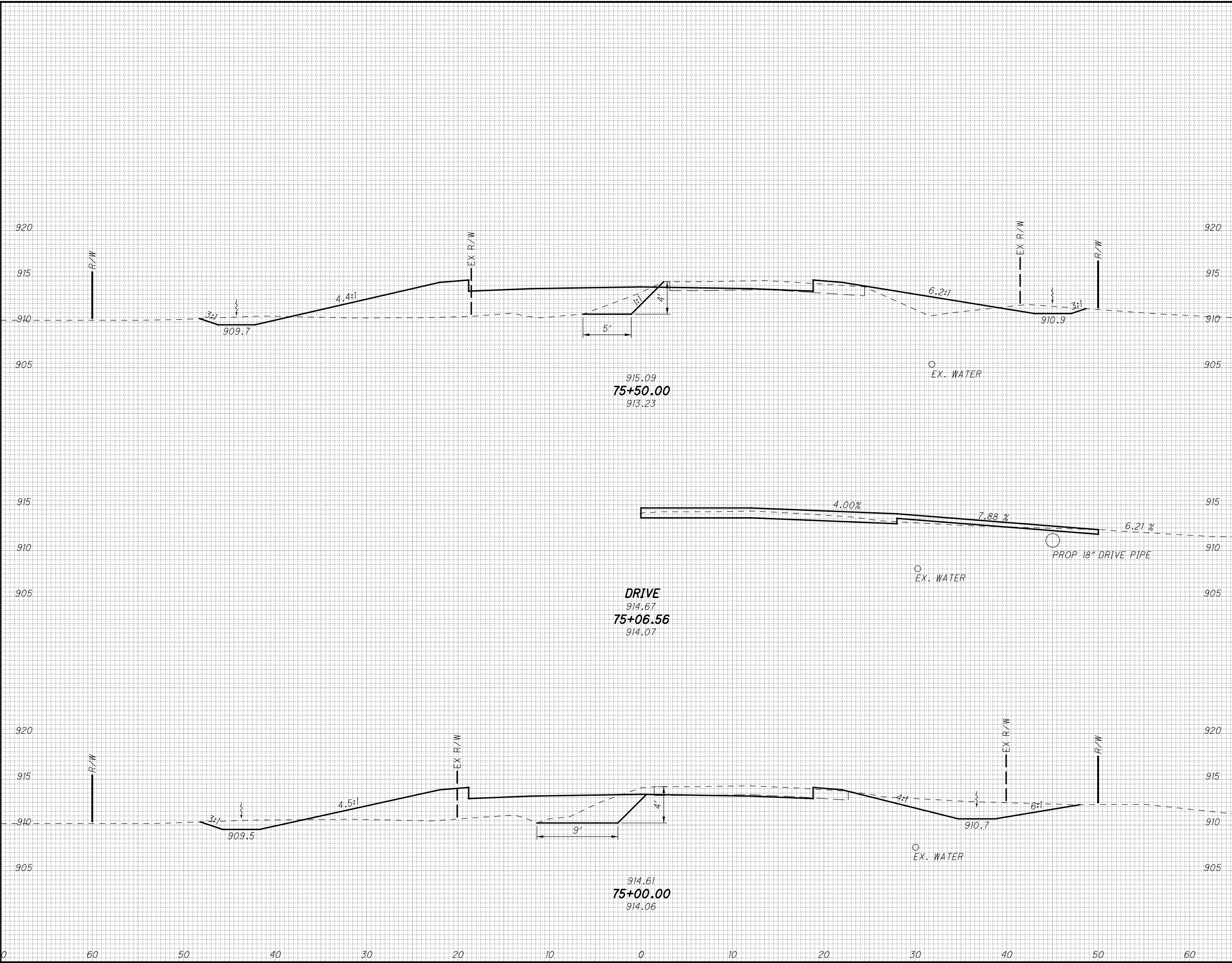
119
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:39AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 75+00.00 TO STA. 75+50.00

LIC-THORNWOOD

120
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:40AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

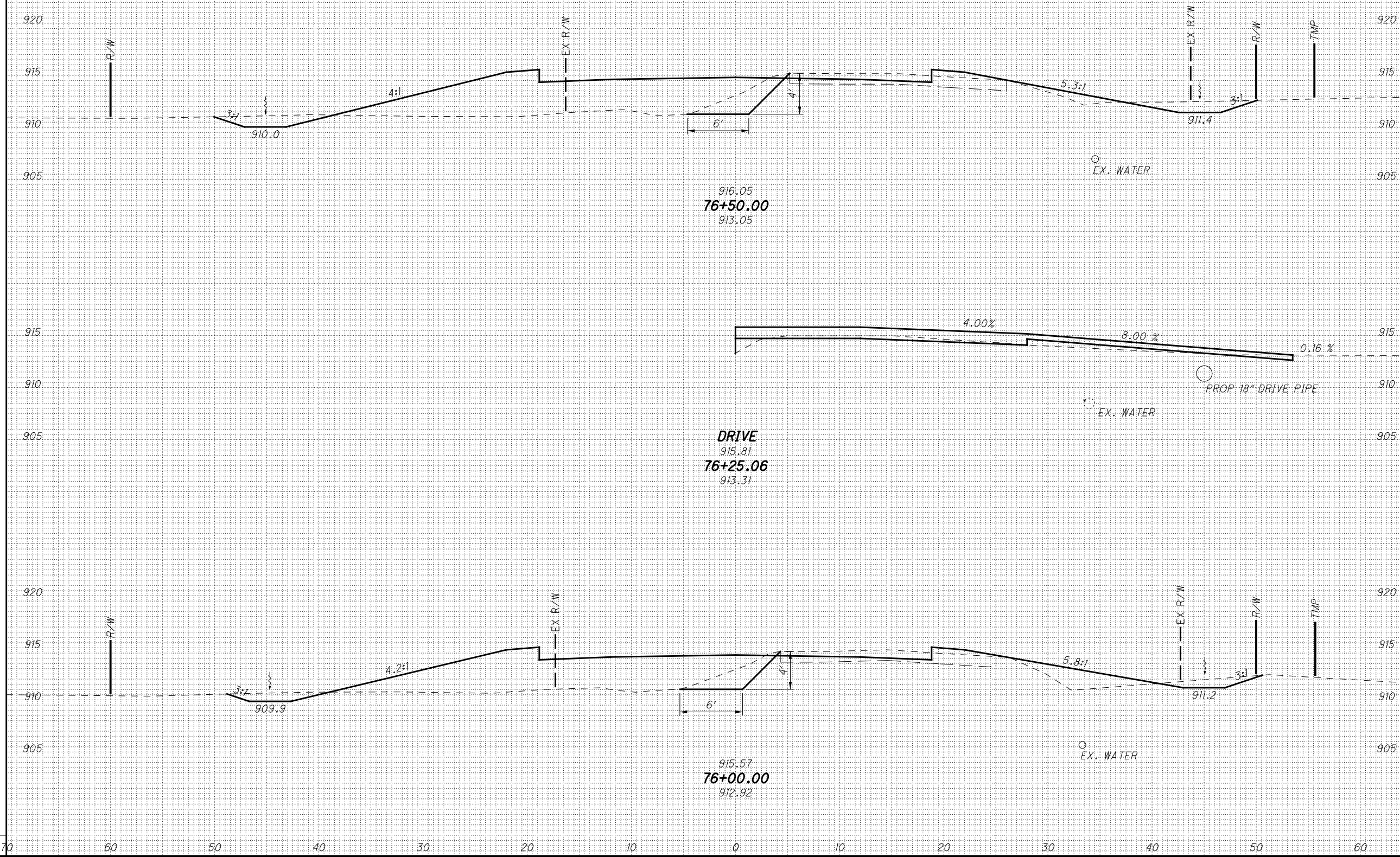
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 76+00.00 TO STA. 76+50.00

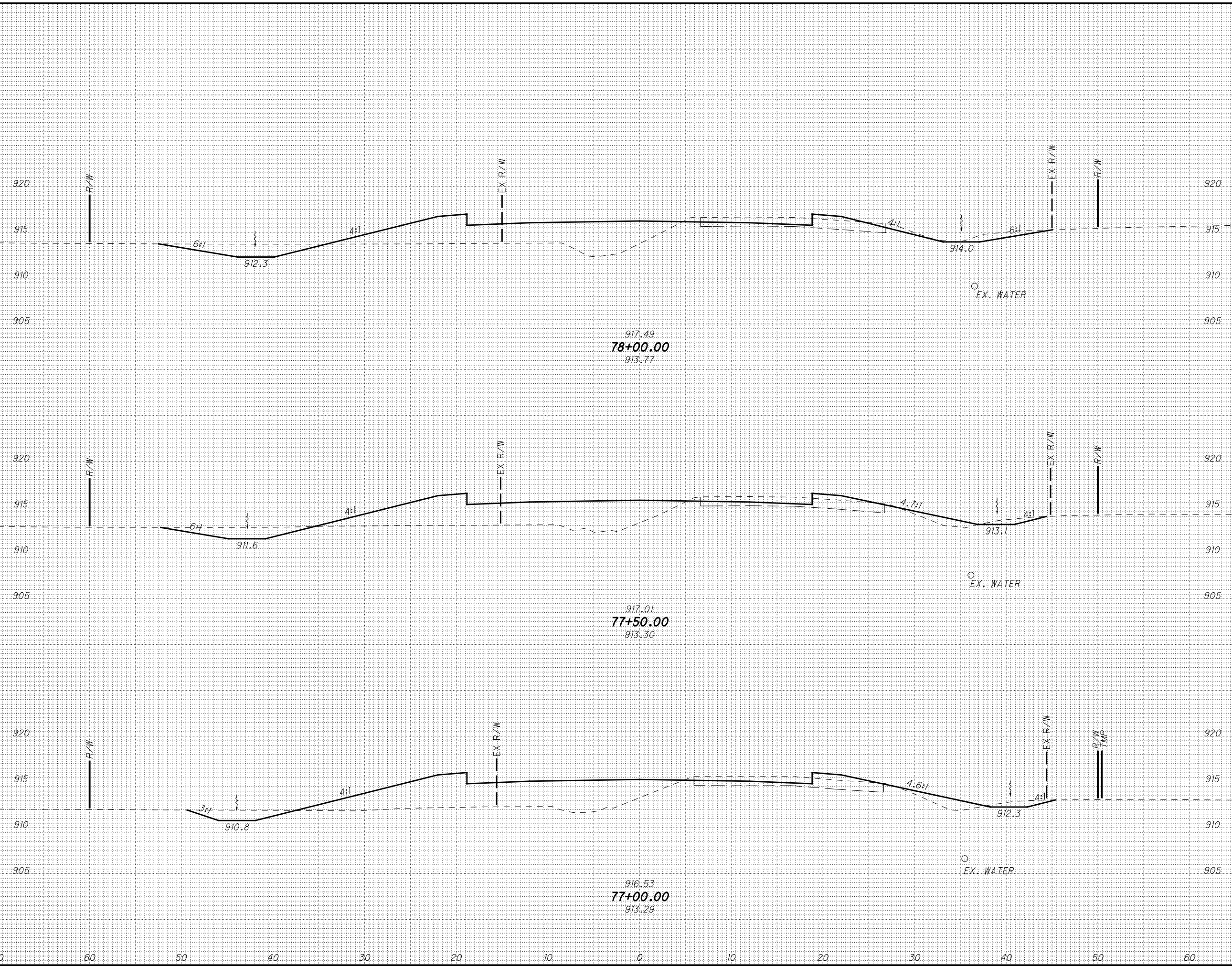
LIC-THORNWOOD

121
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:40AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 77+00.00 TO STA. 78+00.00

LIC-THORNWOOD

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:40AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

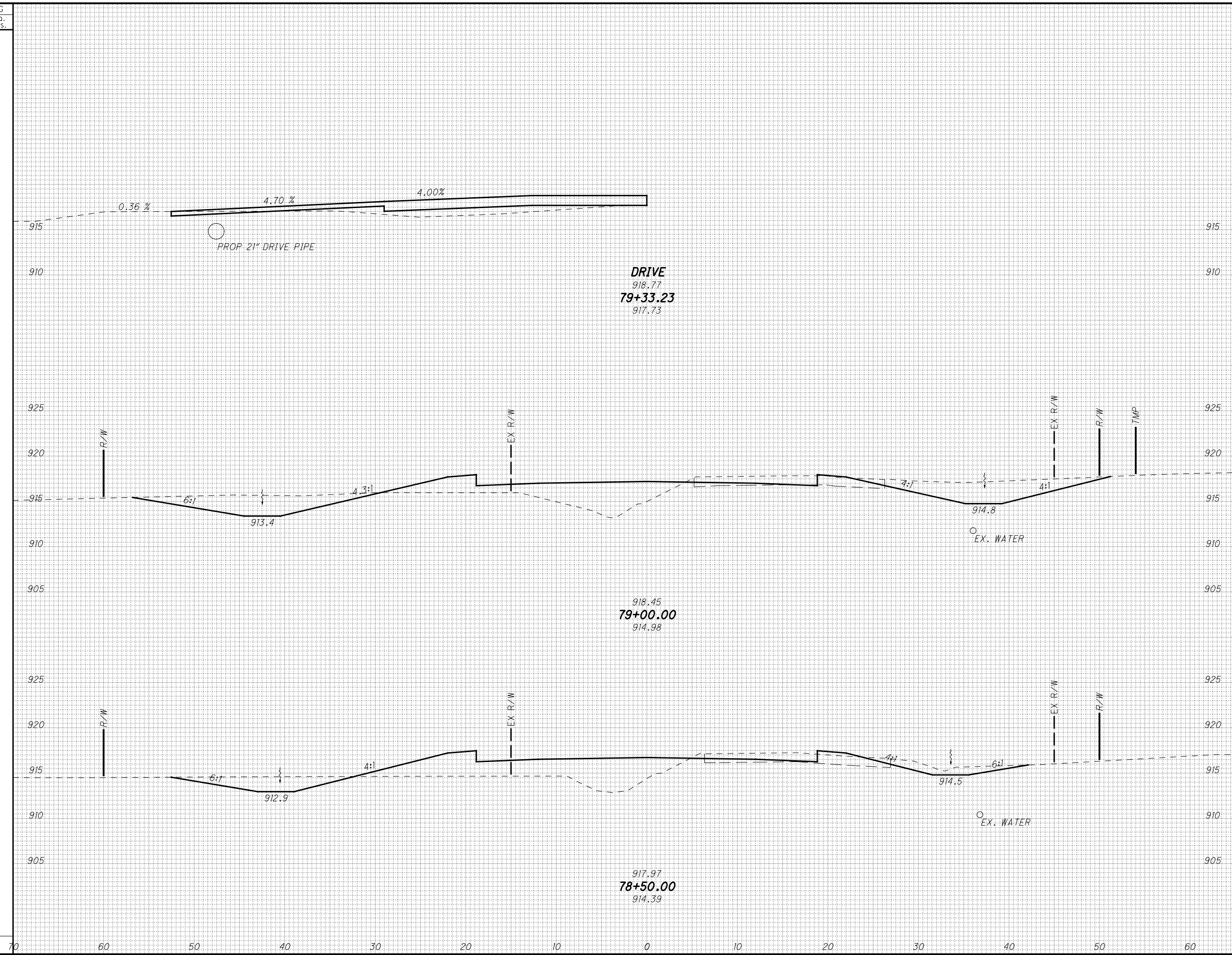
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 78+50.00 TO STA. 79+33.23

LIC-THORNWOOD

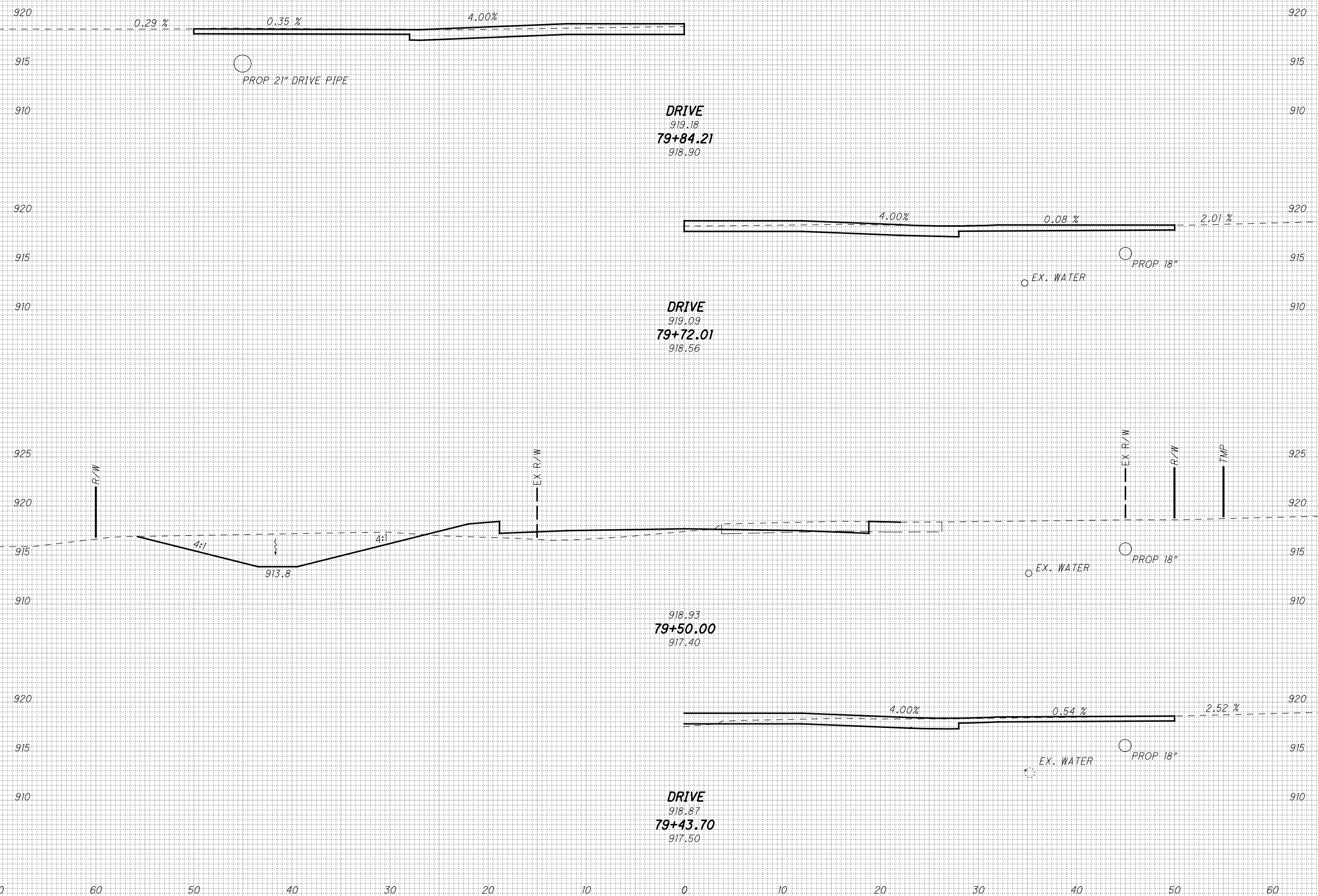
123
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 8:40AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MMB	JEL



CROSS SECTIONS - THORNWOOD
STA. 79+43.70 TO STA. 79+84.21

LIC-THORNWOOD

124
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:40AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

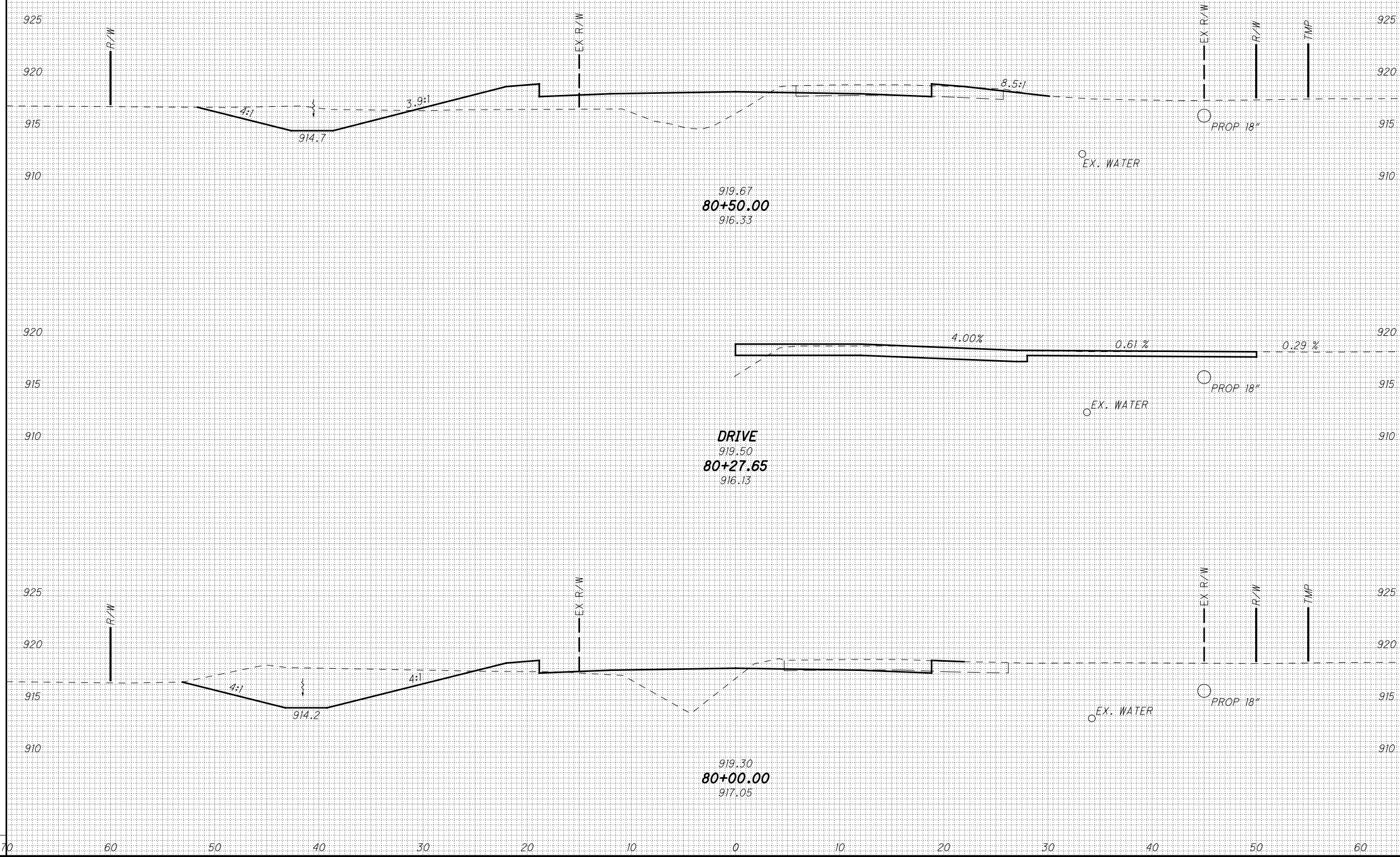
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
STA. 80+00.00 TO STA. 80+50.00

LIC-THORNWOOD

125
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:40AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

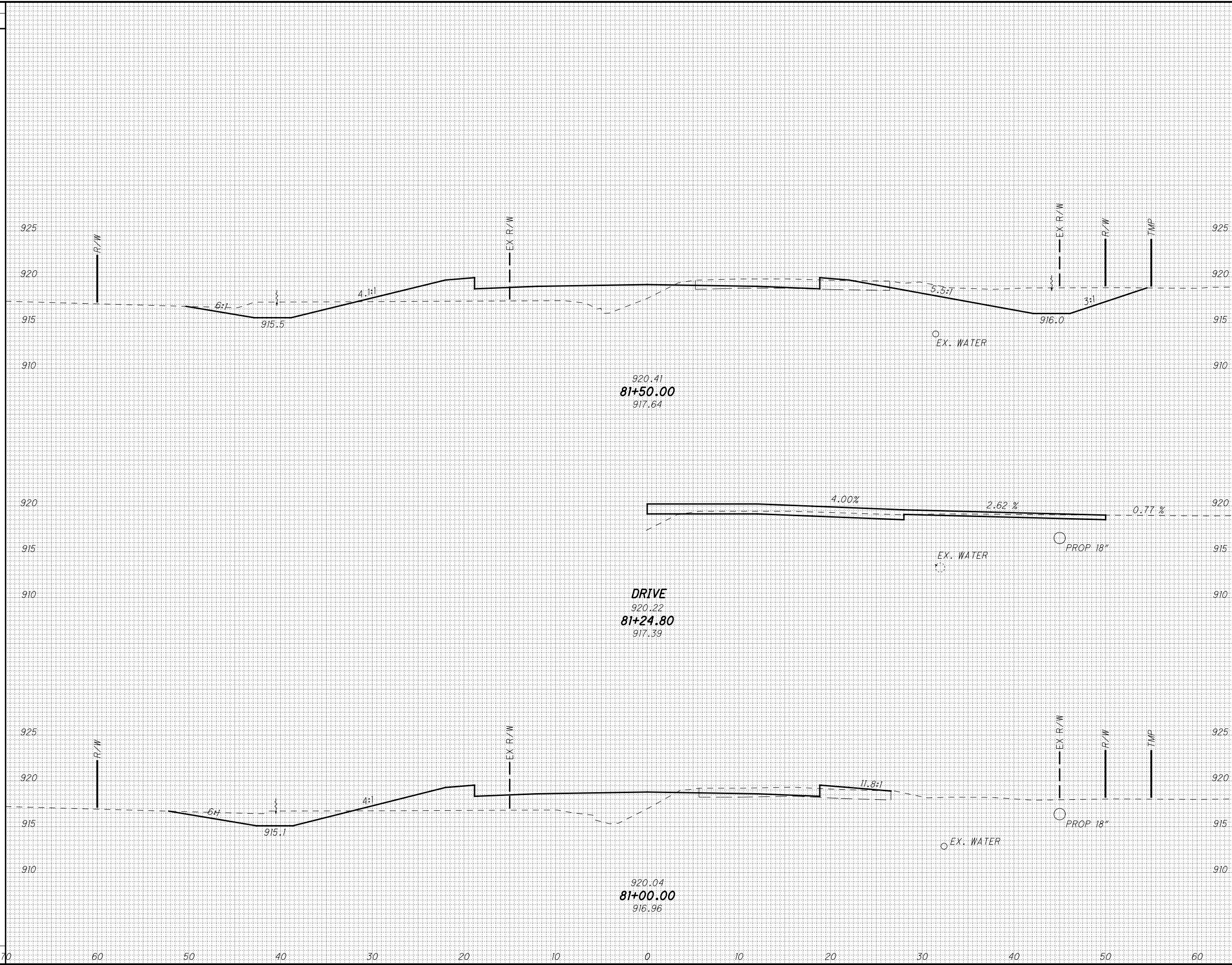
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 81+00.00 TO STA. 81+50.00

LIC-THORNWOOD

126
288

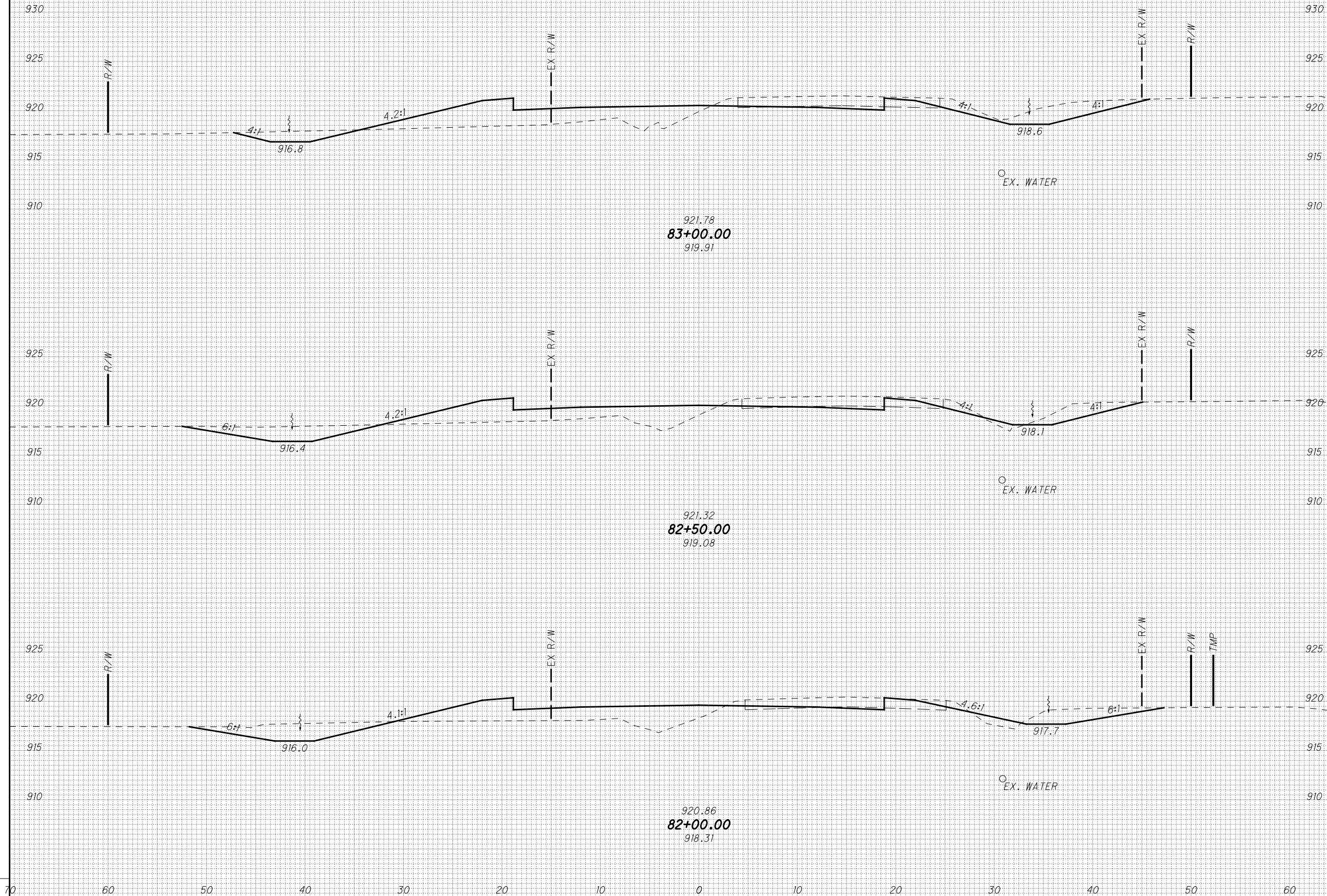


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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 82+00.00 TO STA. 83+00.00

LIC-THORNWOOD

127
288

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SEEDING

END WIDTH	SQ. YDS.		
		CUT	FILL
70			
60			
50			
40			
30			
20			
10			
0			
10			
20			
30			
40			
50			
60			

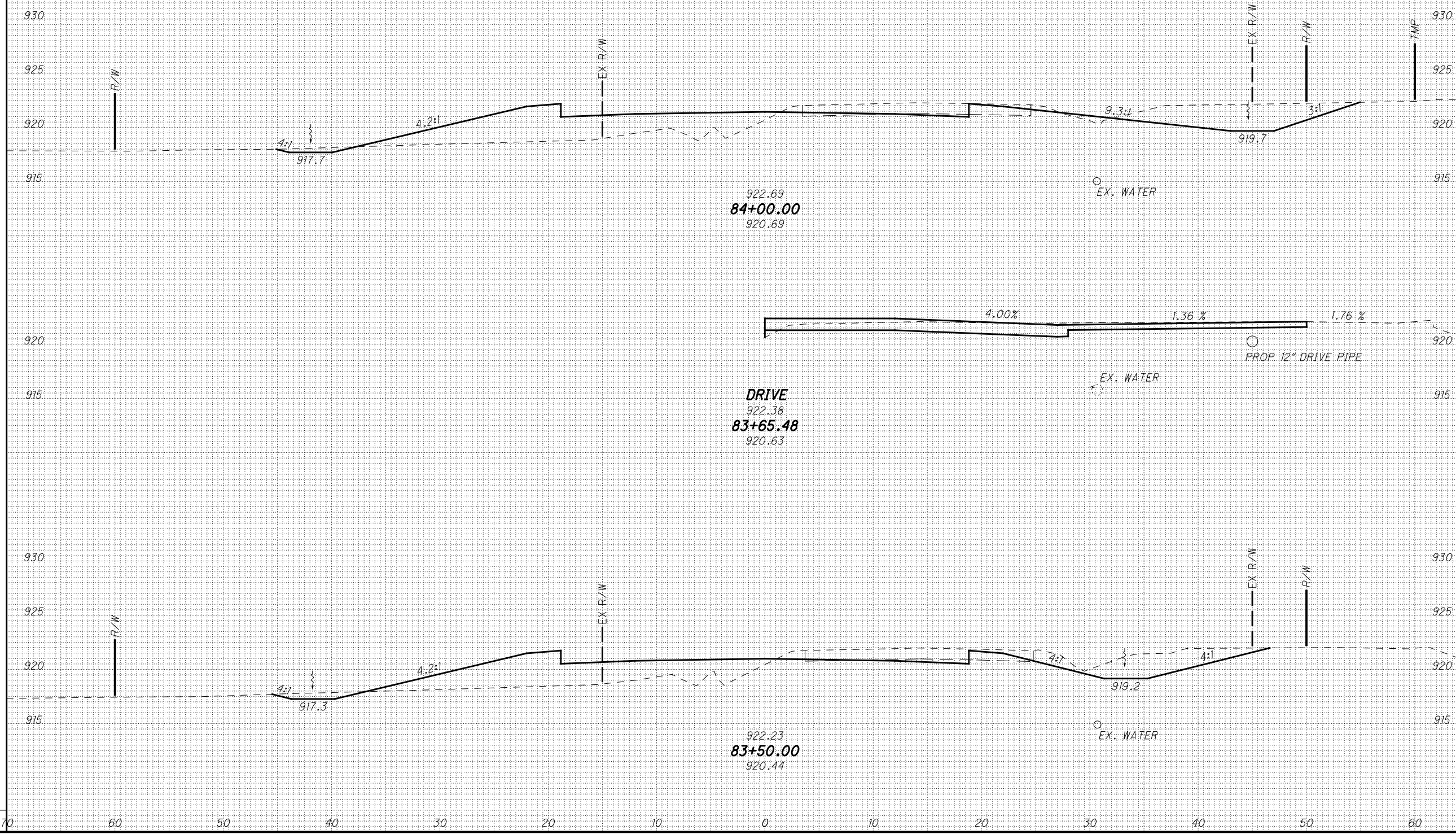
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 83+50.00 TO STA. 84+00.00

LIC-THORNWOOD

128
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:41AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

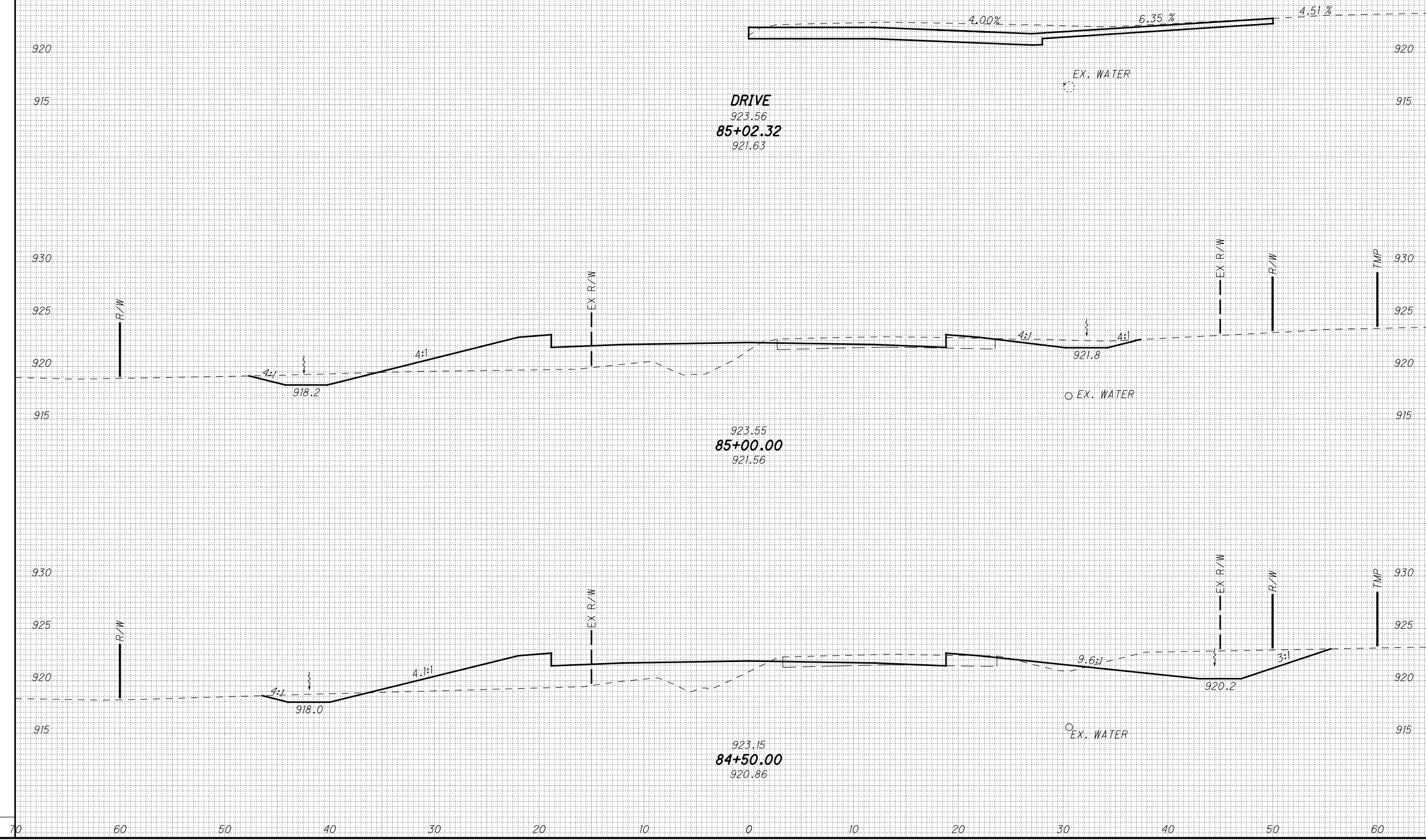
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
STA. 84+50.00 TO STA. 85+02.32

LIC-THORNWOOD

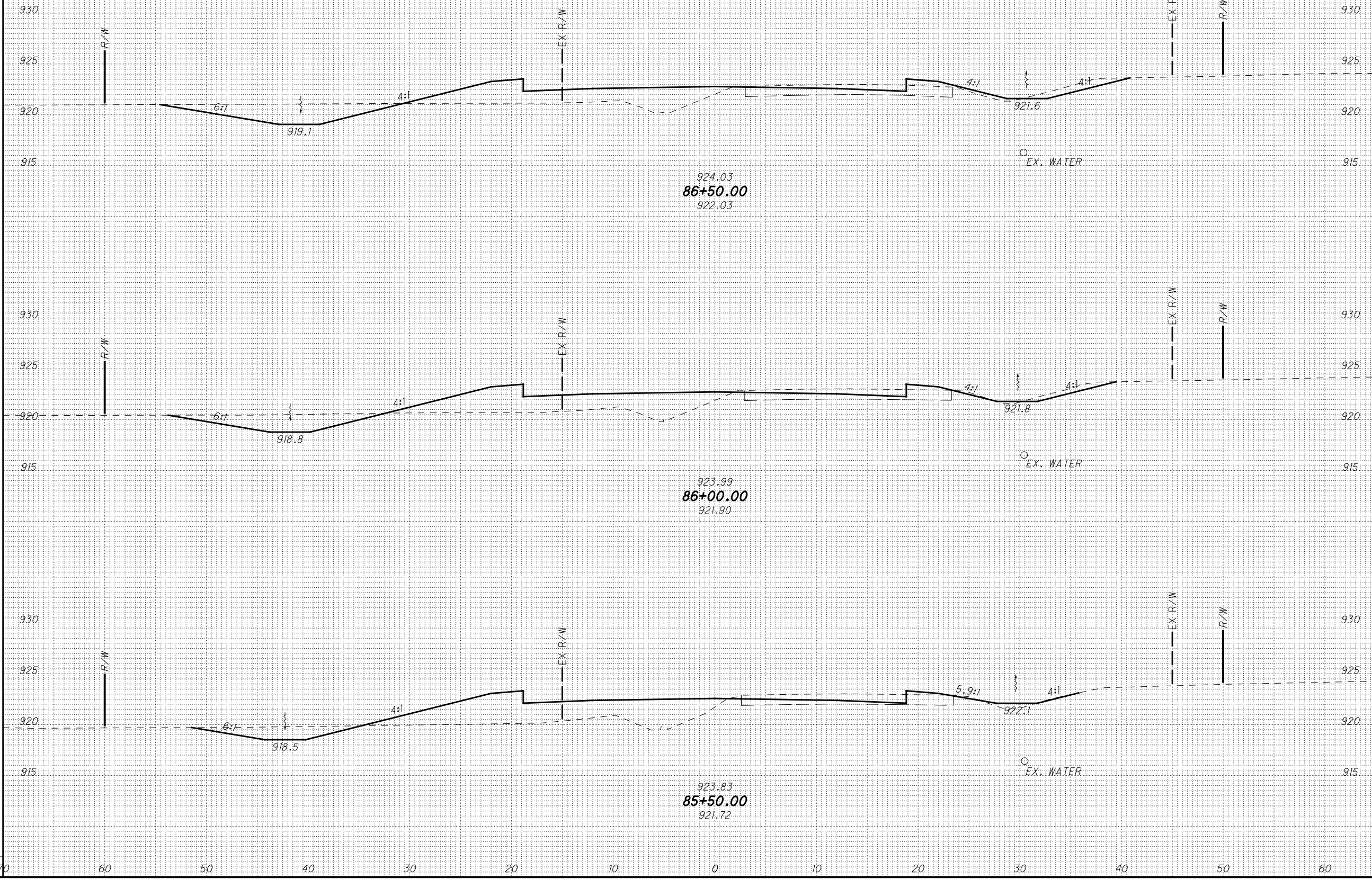
129
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:41AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 85+50.00 TO STA. 86+50.00

LIC-THORNWOOD

130
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:41AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
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40	
30	
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10	
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50	
60	

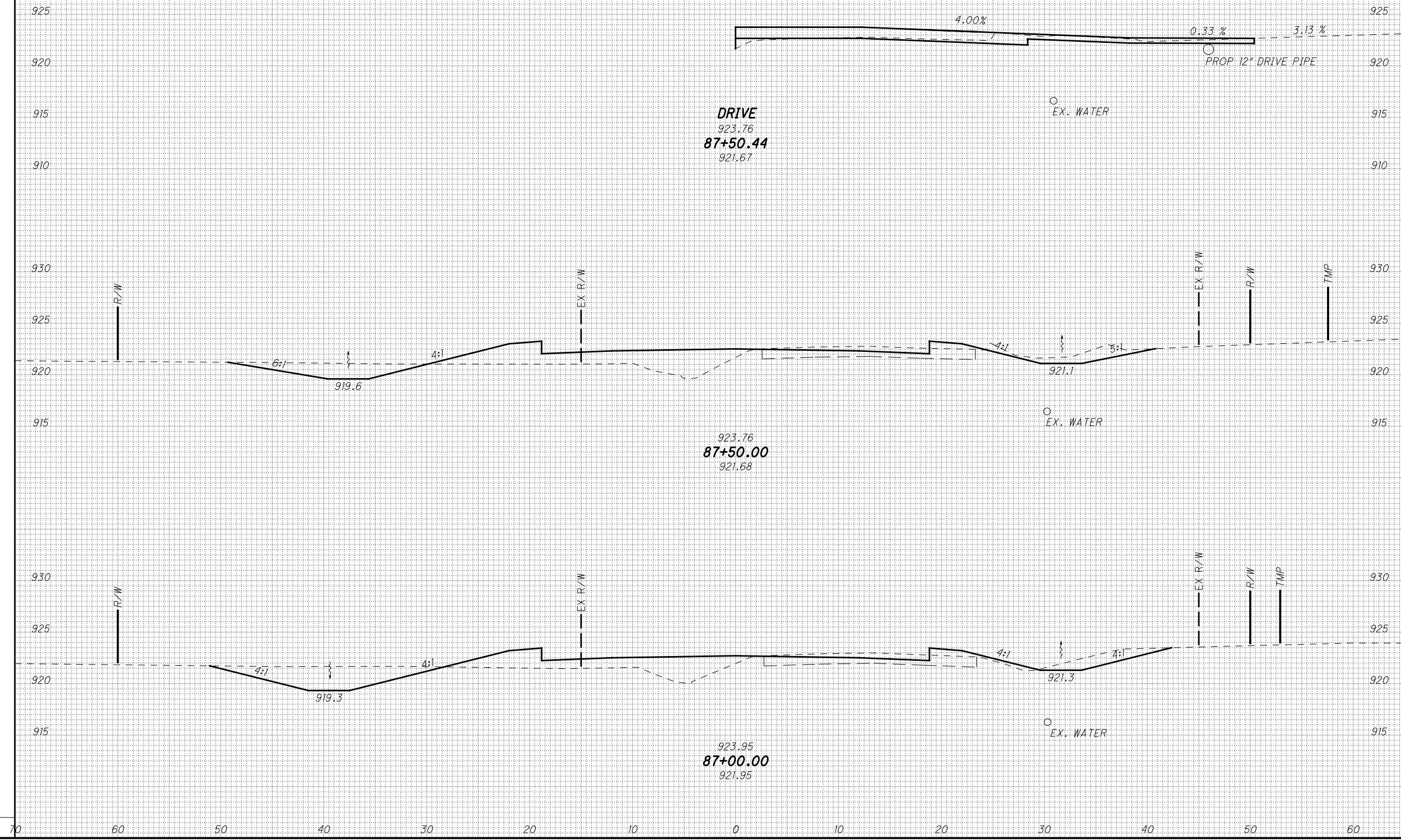
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 87+00.00 TO STA. 87+50.44

LIC-THORNWOOD

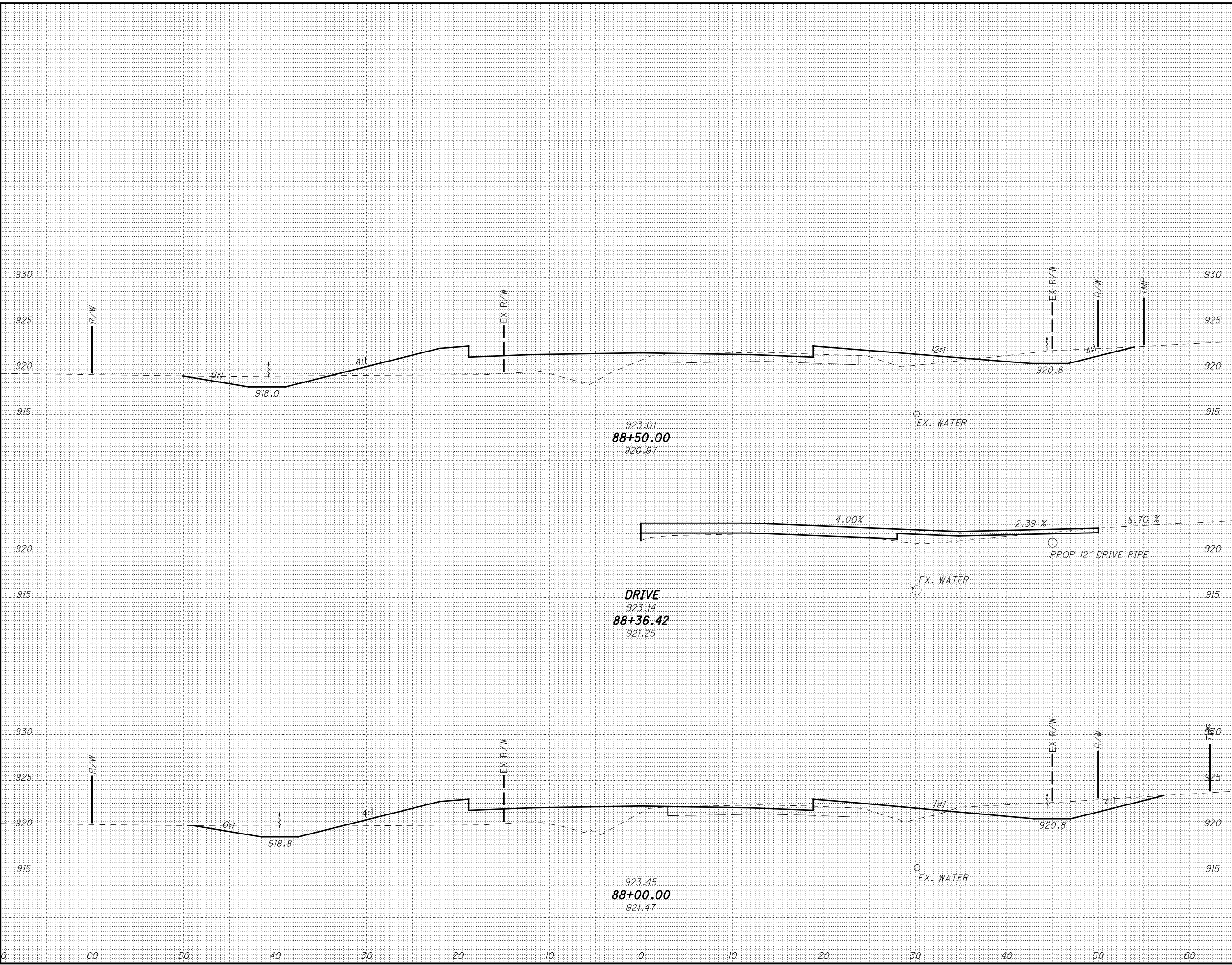
131
288



P:\PWP\dms08268\78116XS001.dgn 28-JUL-2010 8:41AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
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20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 88+00.00 TO STA. 88+50.00

LIC-THORNWOOD

132
288

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SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
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30	
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50	
60	

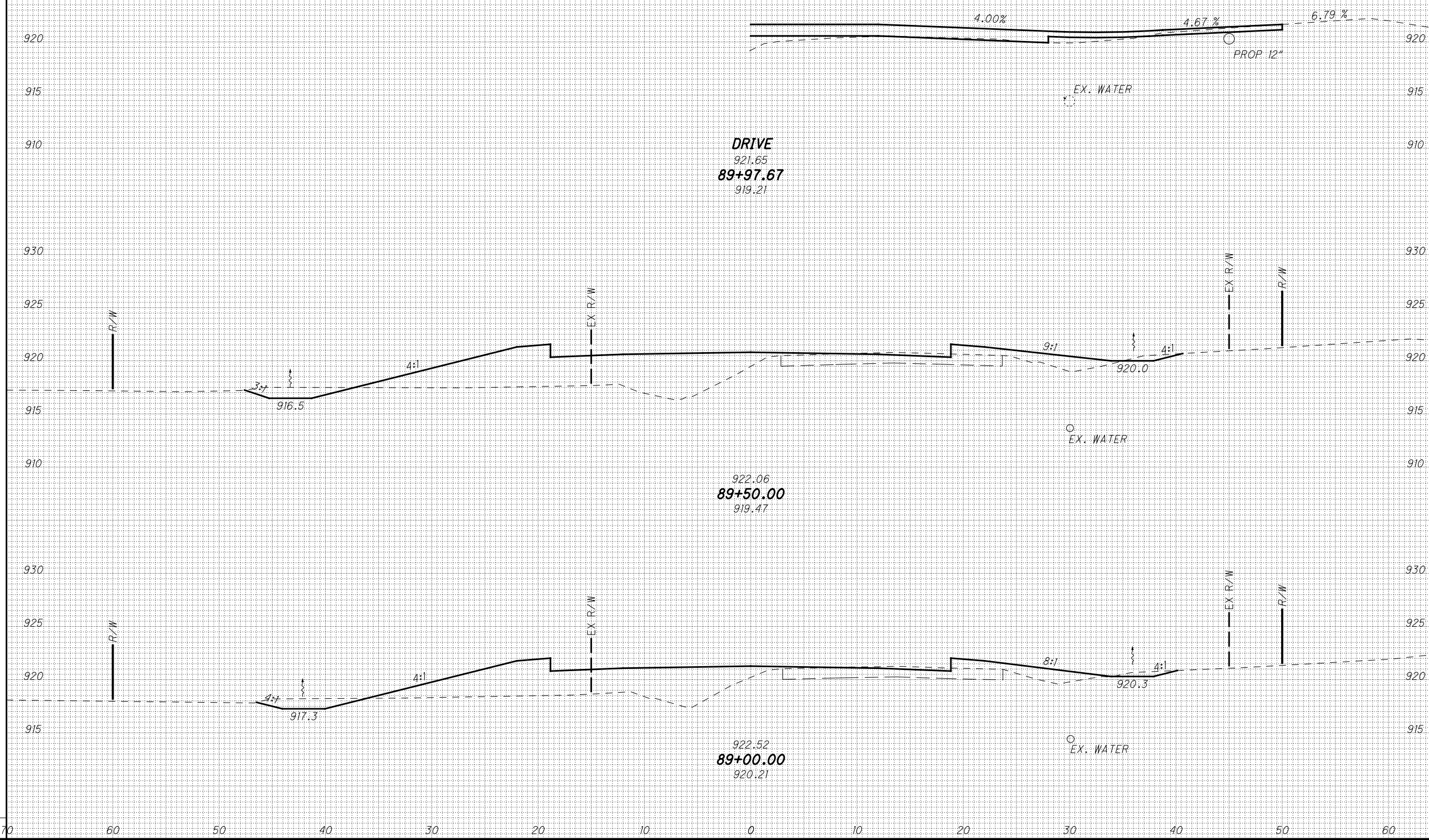
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED	JEL
MMB		

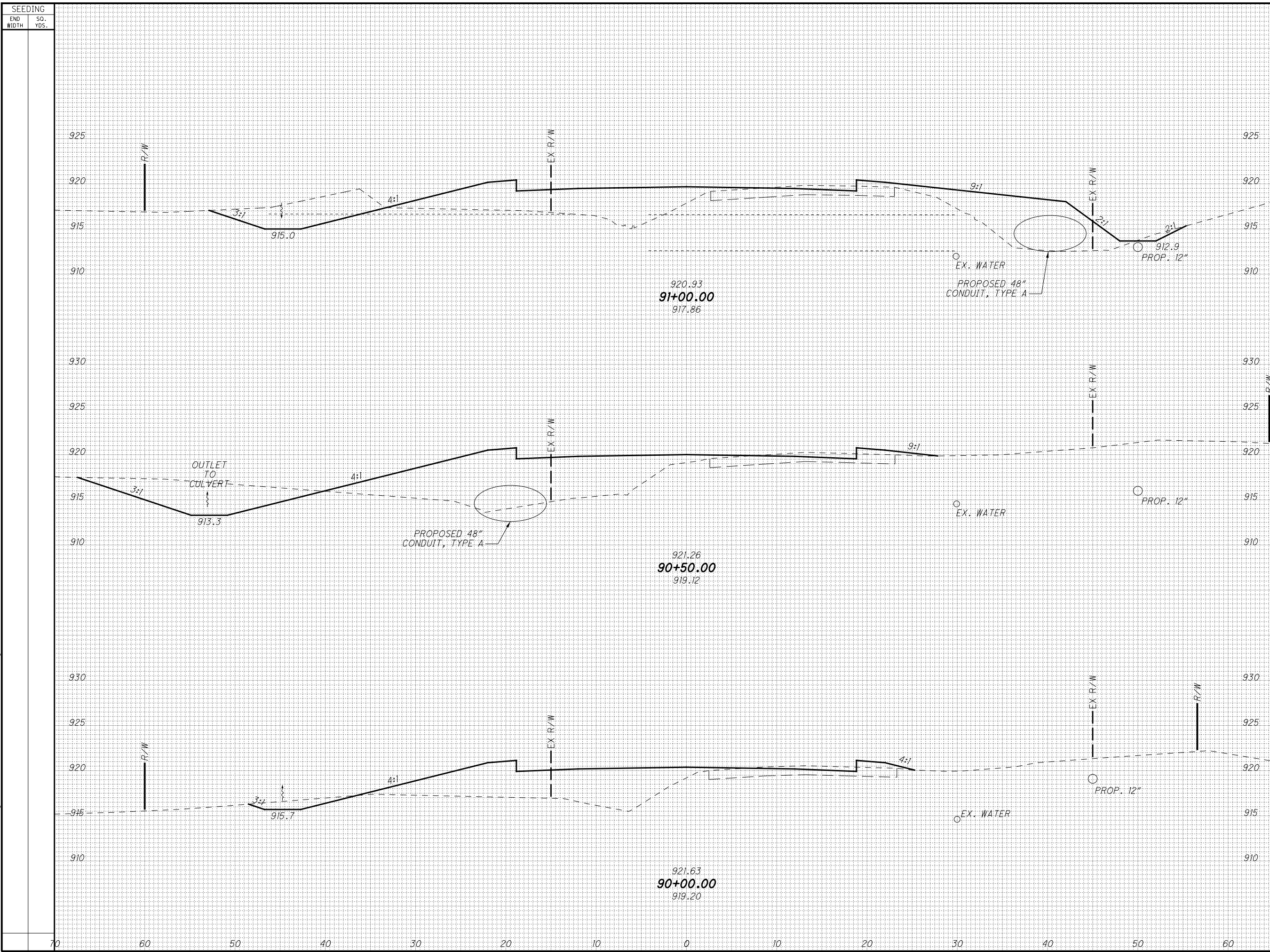
CROSS SECTIONS - THORNWOOD
STA. 89+00.00 TO STA. 89+97.67

LIC-THORNWOOD

133
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:42AM rgreenland



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

CALCULATED
 MMB
 CHECKED
 JEL

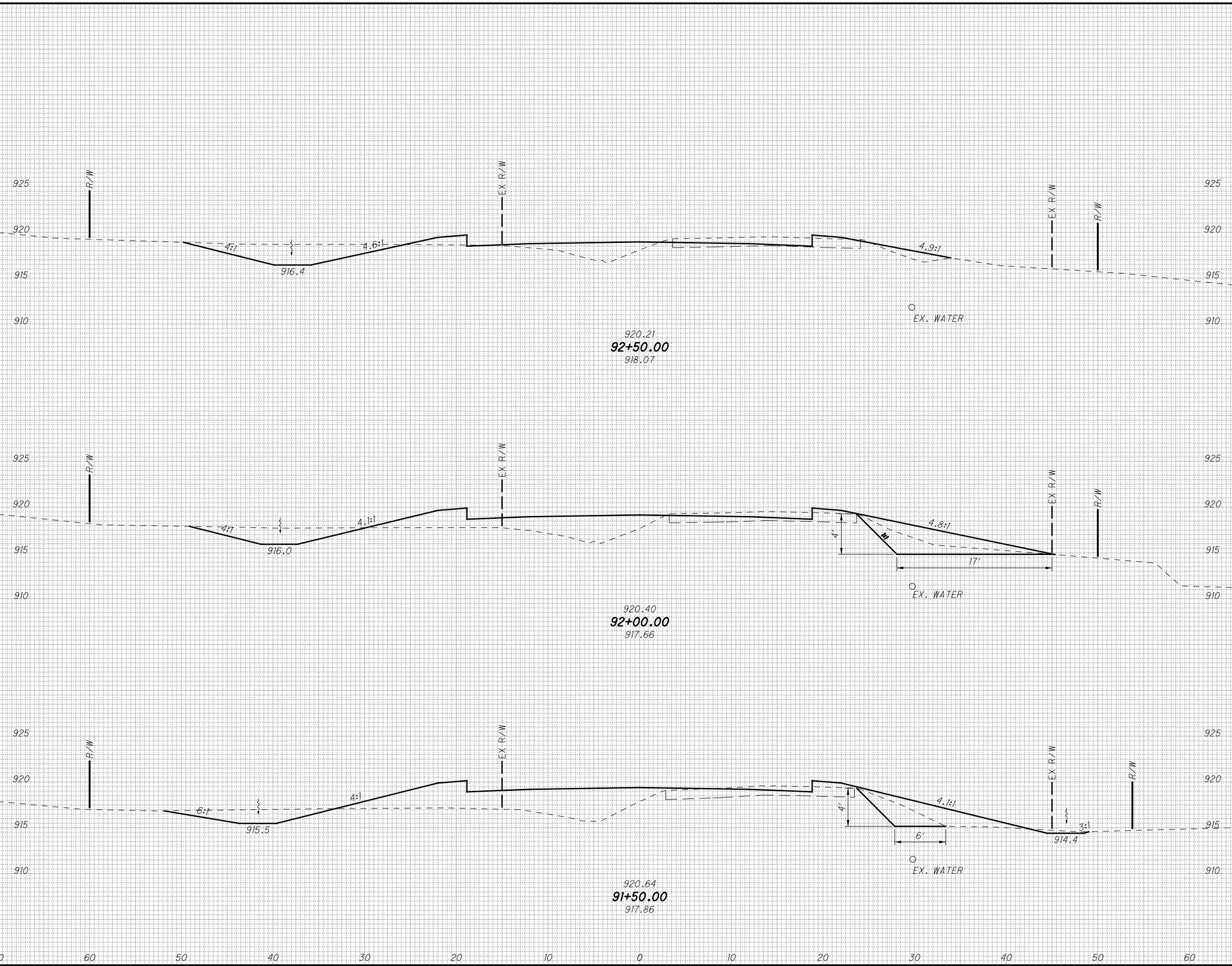
CROSS SECTIONS - THORNWOOD
STA. 90+00.00 TO STA. 91+00.00

LIC-THORNWOOD

134
 288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:42AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
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10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 91+50.00 TO STA. 92+50.00

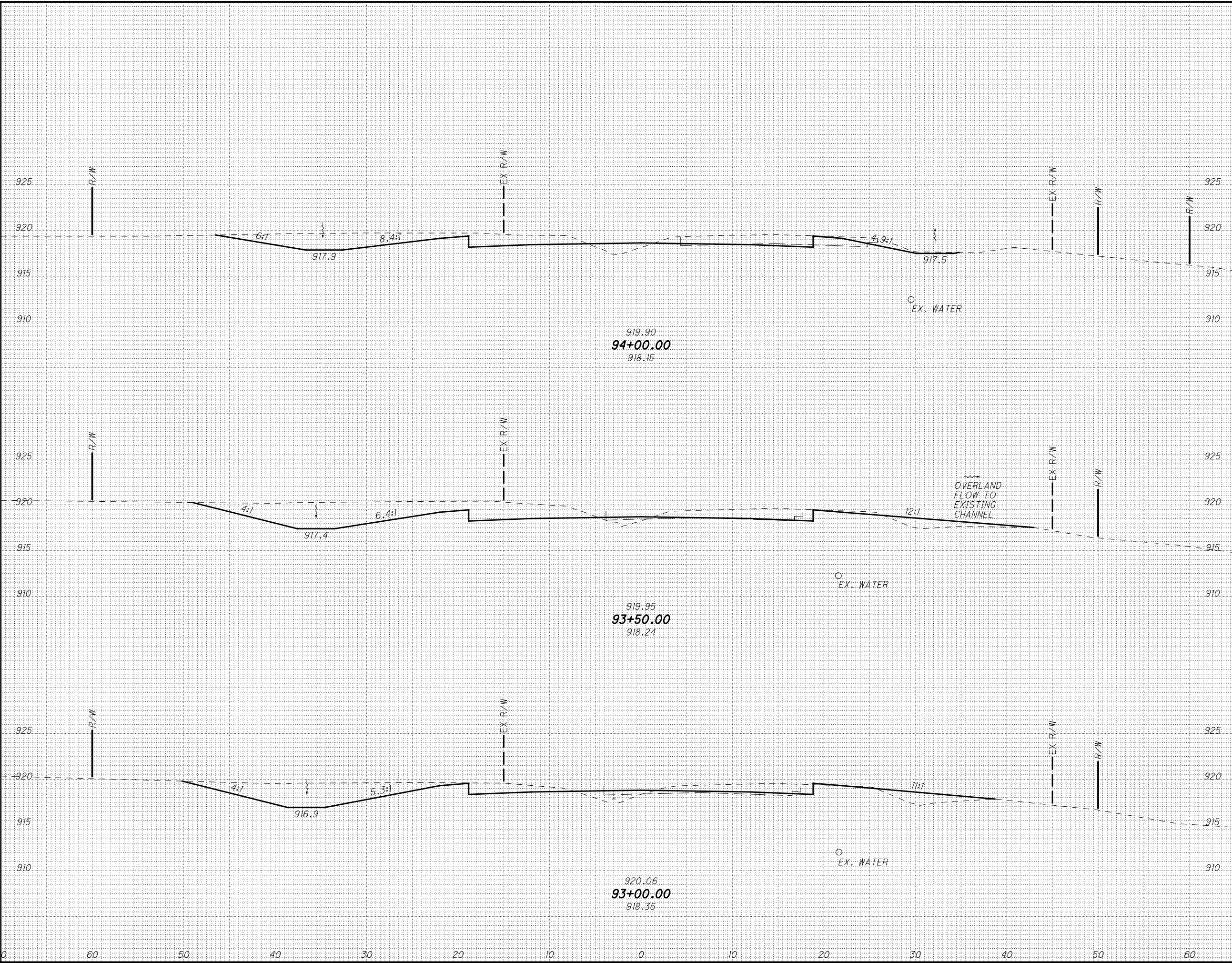
LIC-THORNWOOD

135
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:42AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 93+00.00 TO STA. 94+00.00

LIC-THORNWOOD

136
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:42AM rgreenland

SEEDING
END WIDTH SQ. YDS.

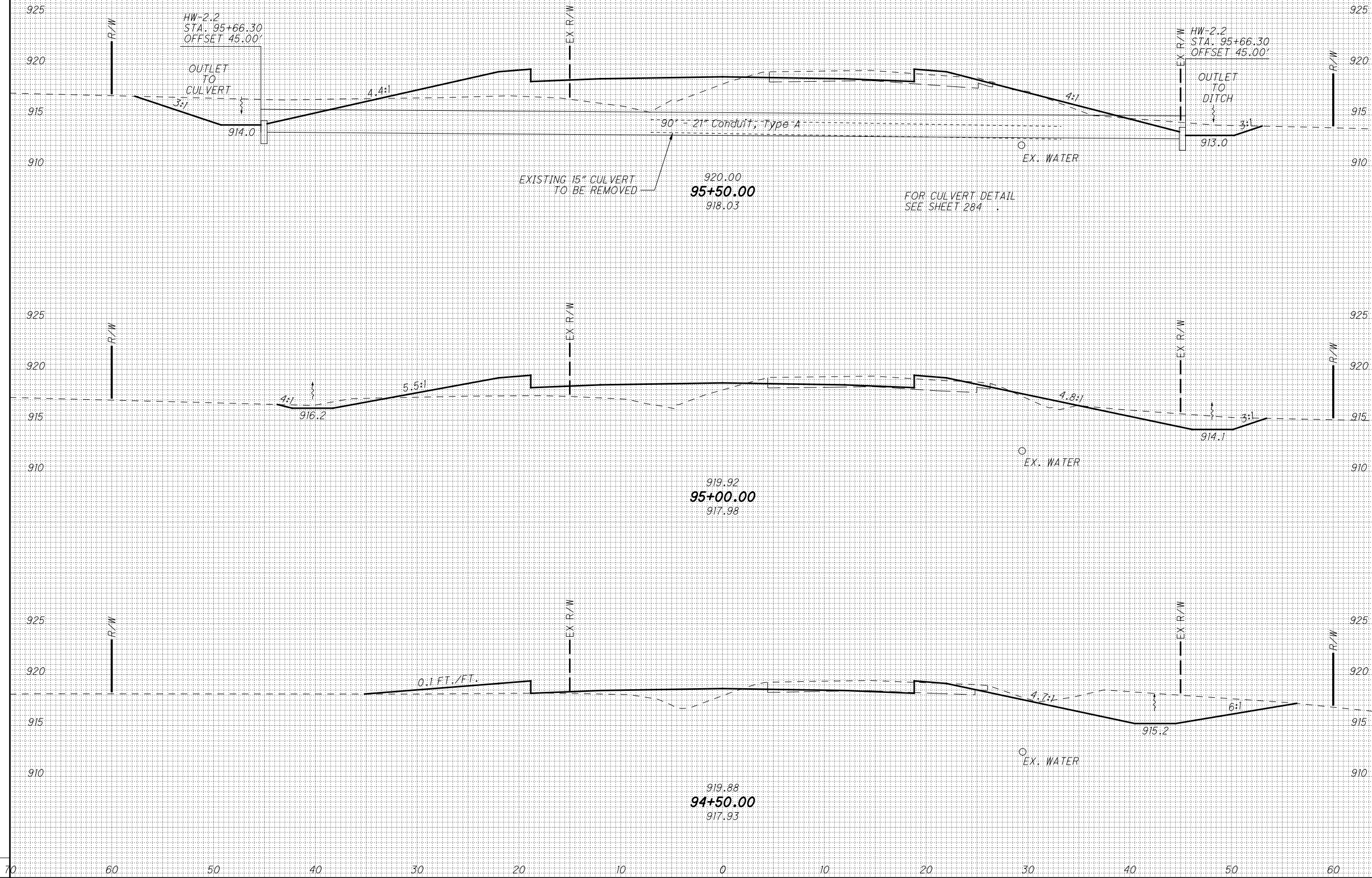
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 94+50.00 TO STA. 95+50.00

LIC-THORNWOOD

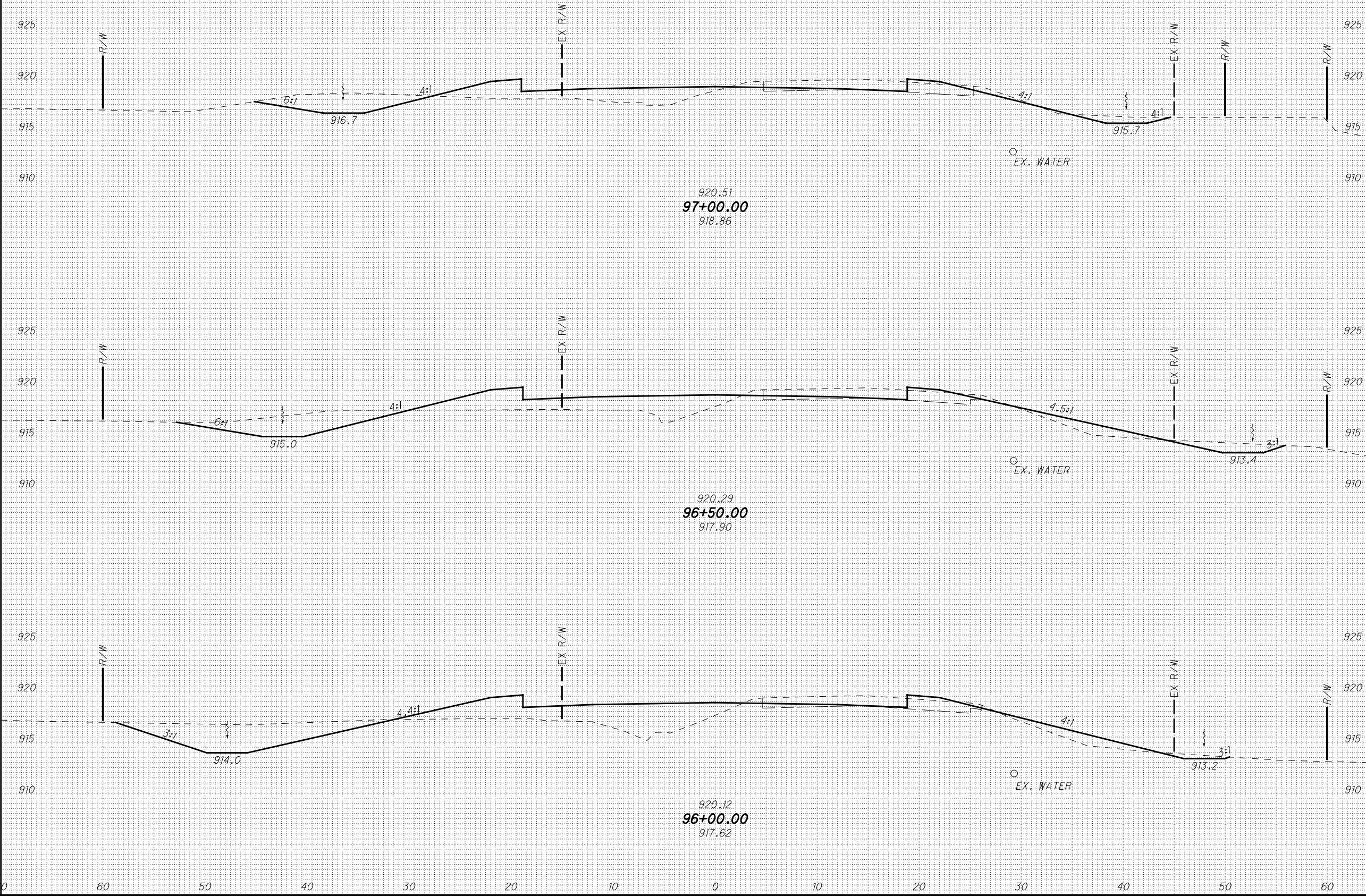
137
288



P:\PWP\dms08268\78116\S001.dgn 28-JUL-2010 8:42AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 96+00.00 TO STA. 97+00.00

LIC-THORNWOOD

138
288

P:\PWP\dms08268\78116\5001.dgn 28-JUL-2010 8:43AM rgreenland

SEEDING
END WIDTH SQ. YDS.

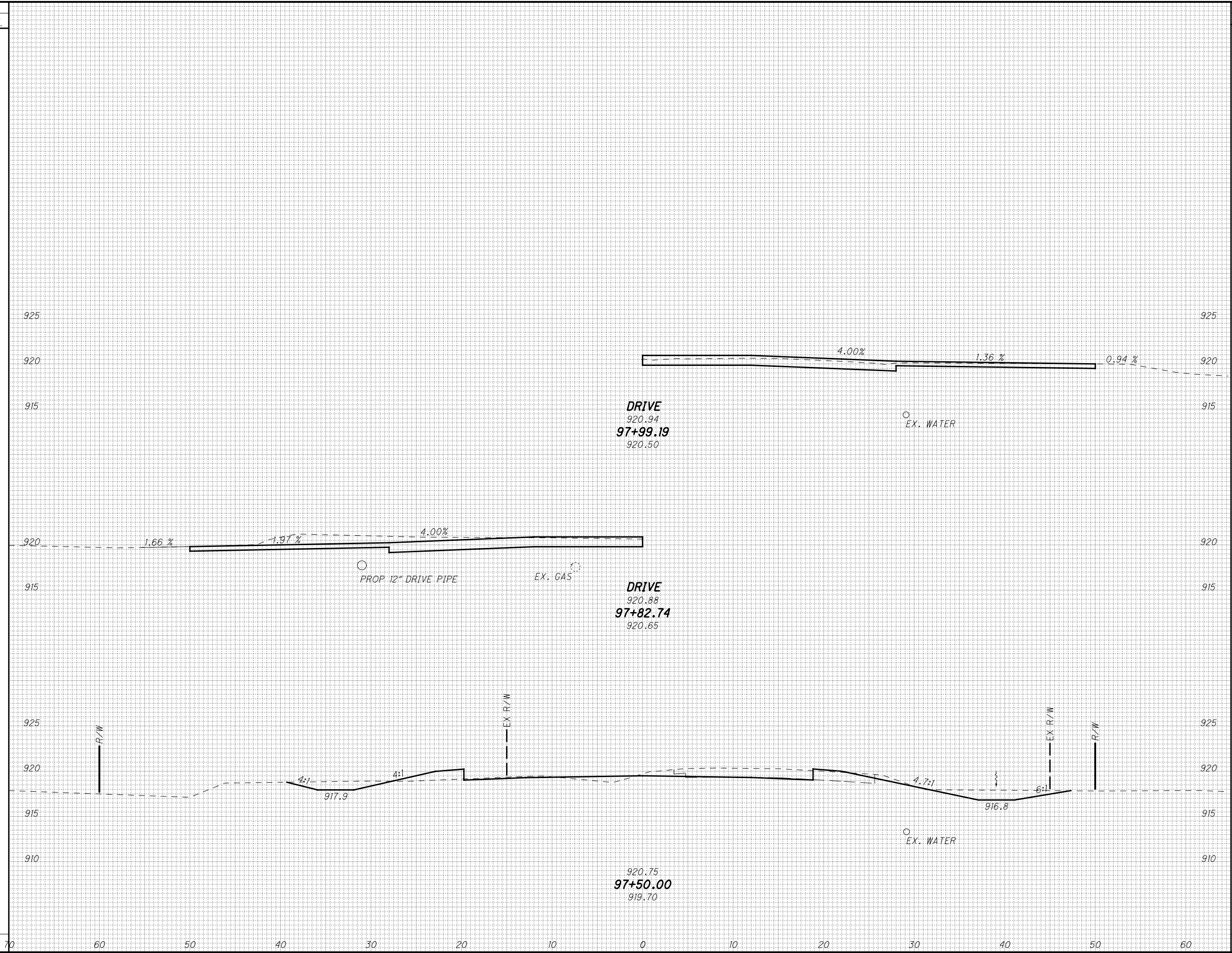
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB CHECKED
JEL

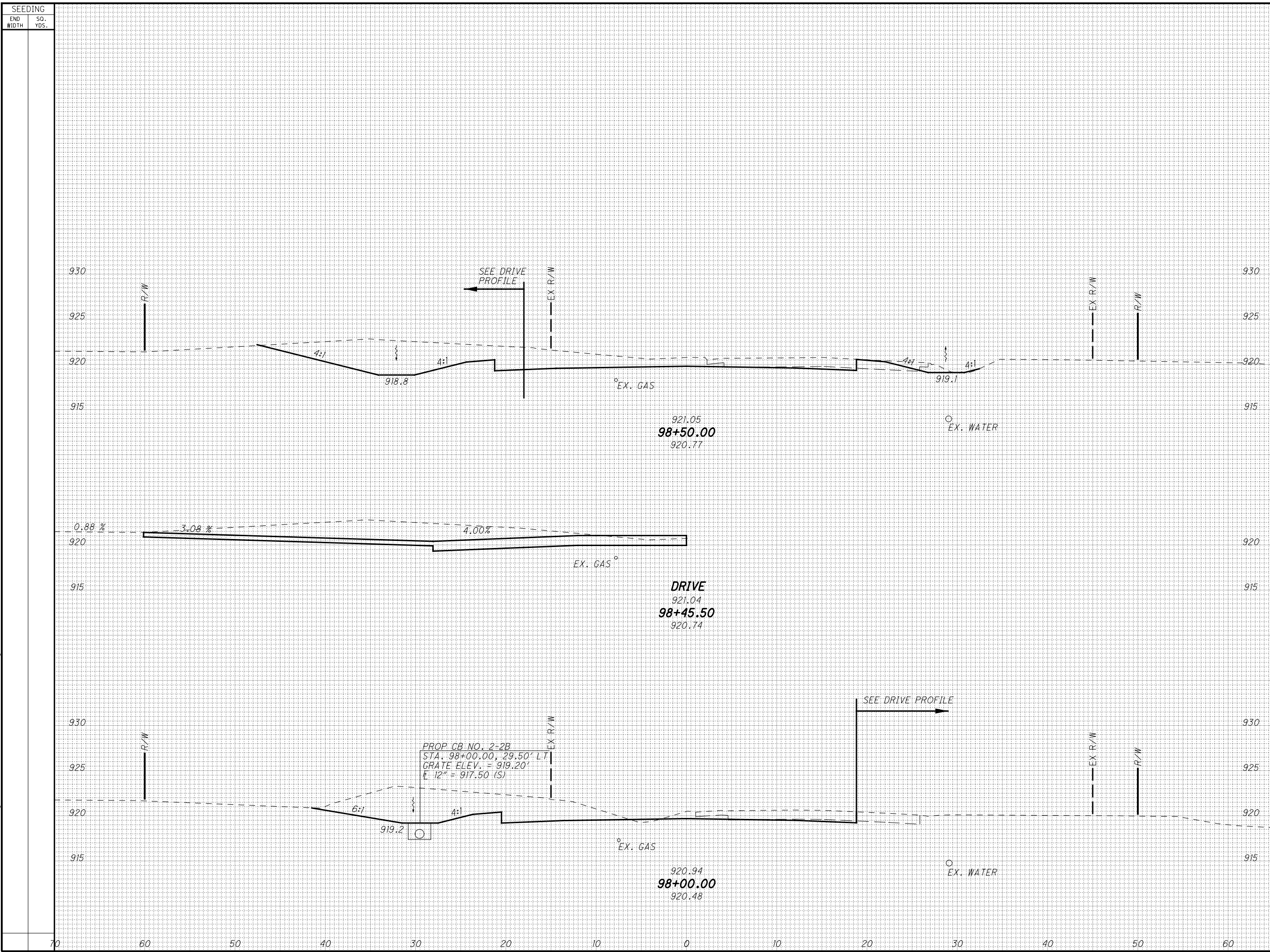
CROSS SECTIONS - THORNWOOD
STA. 97+50.00 TO STA. 97+99.19

LIC-THORNWOOD

139
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:43AM rgreenland



CROSS SECTIONS - THORNWOOD
STA. 98+00.00 TO STA. 98+50.00

LIC-THORNWOOD

140
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:43AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

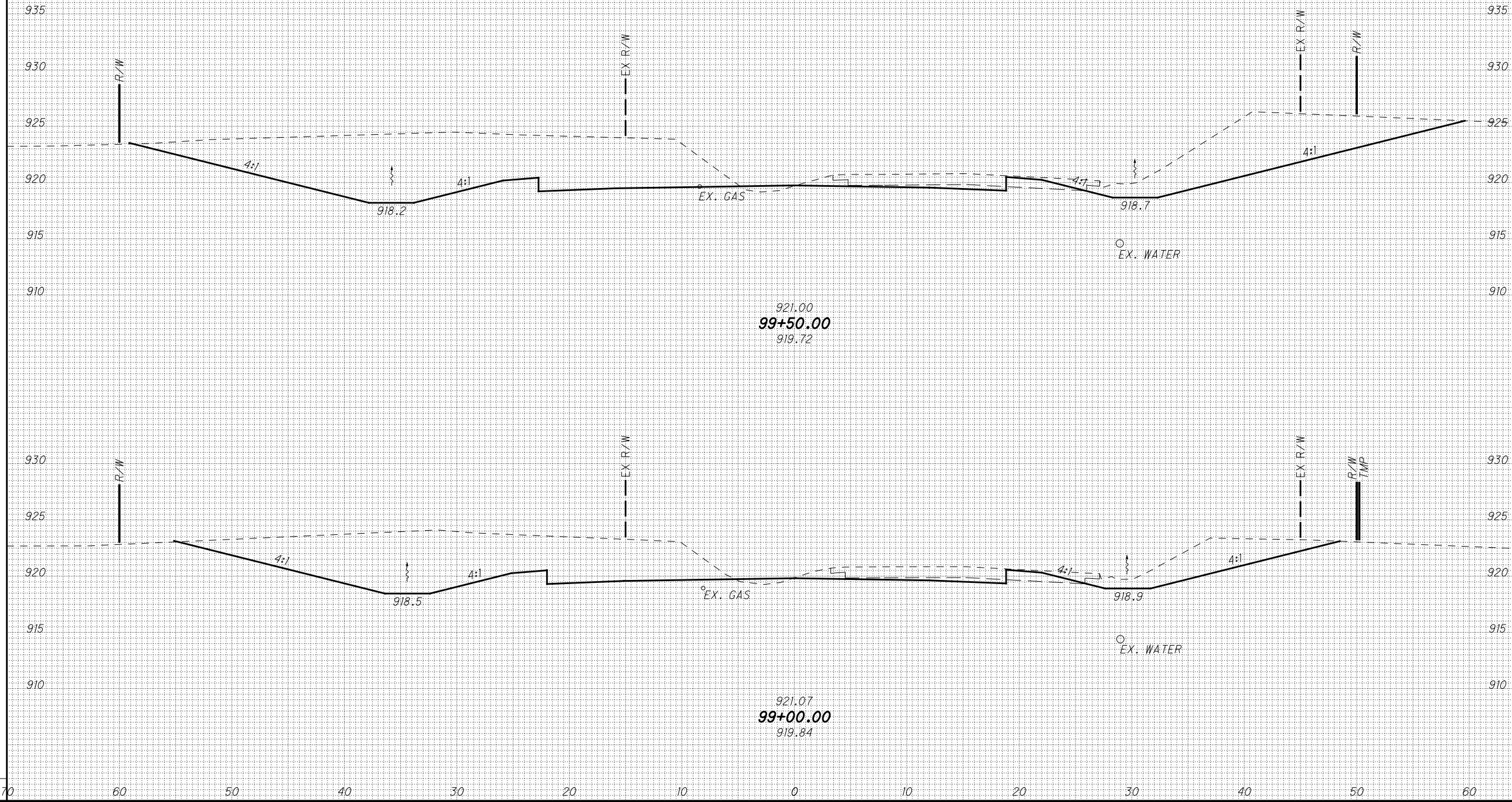
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 99+00.00 TO STA. 99+50.00

LIC-THORNWOOD

141
288

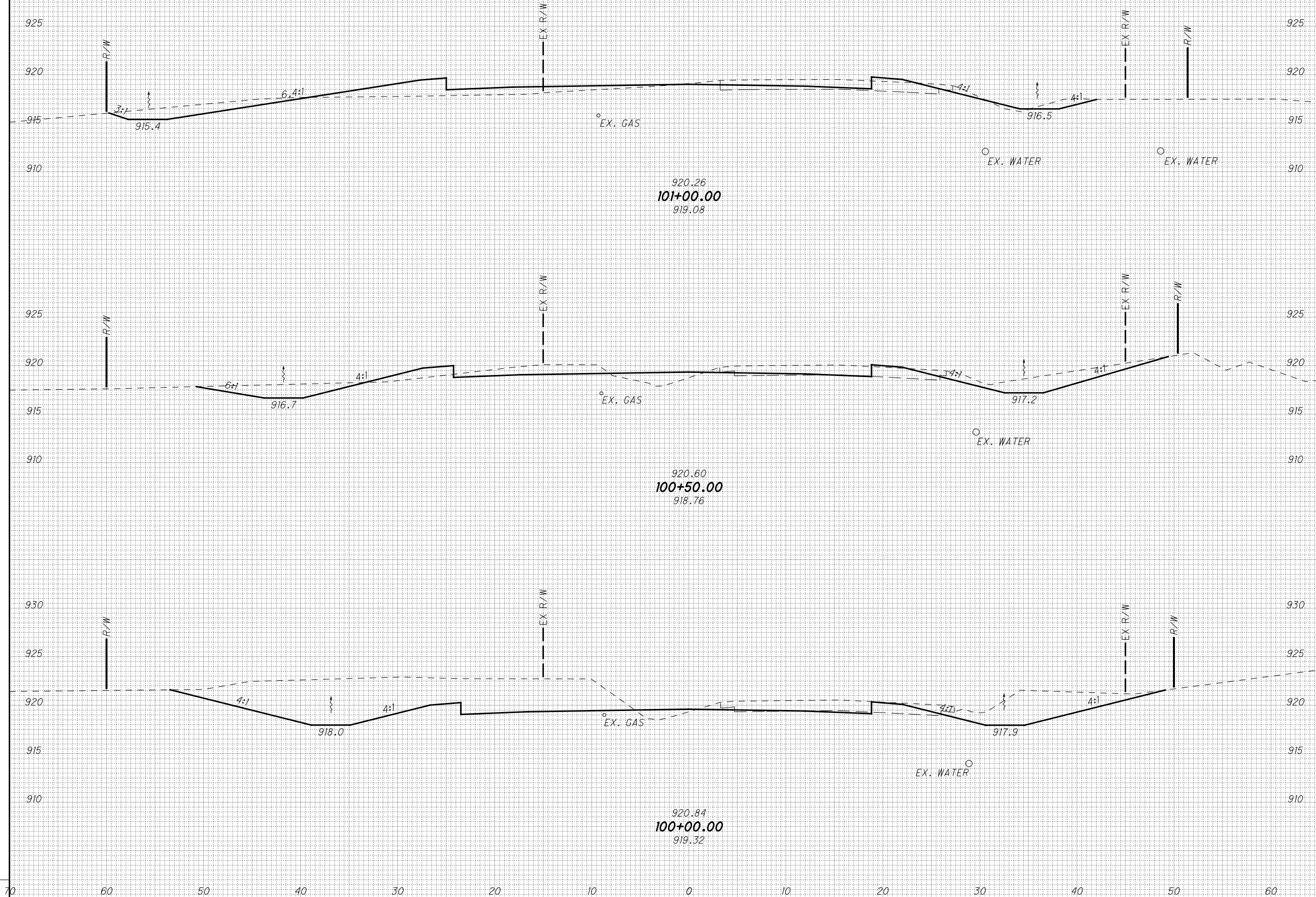


P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:43AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 100+00.00 TO STA. 101+00.00

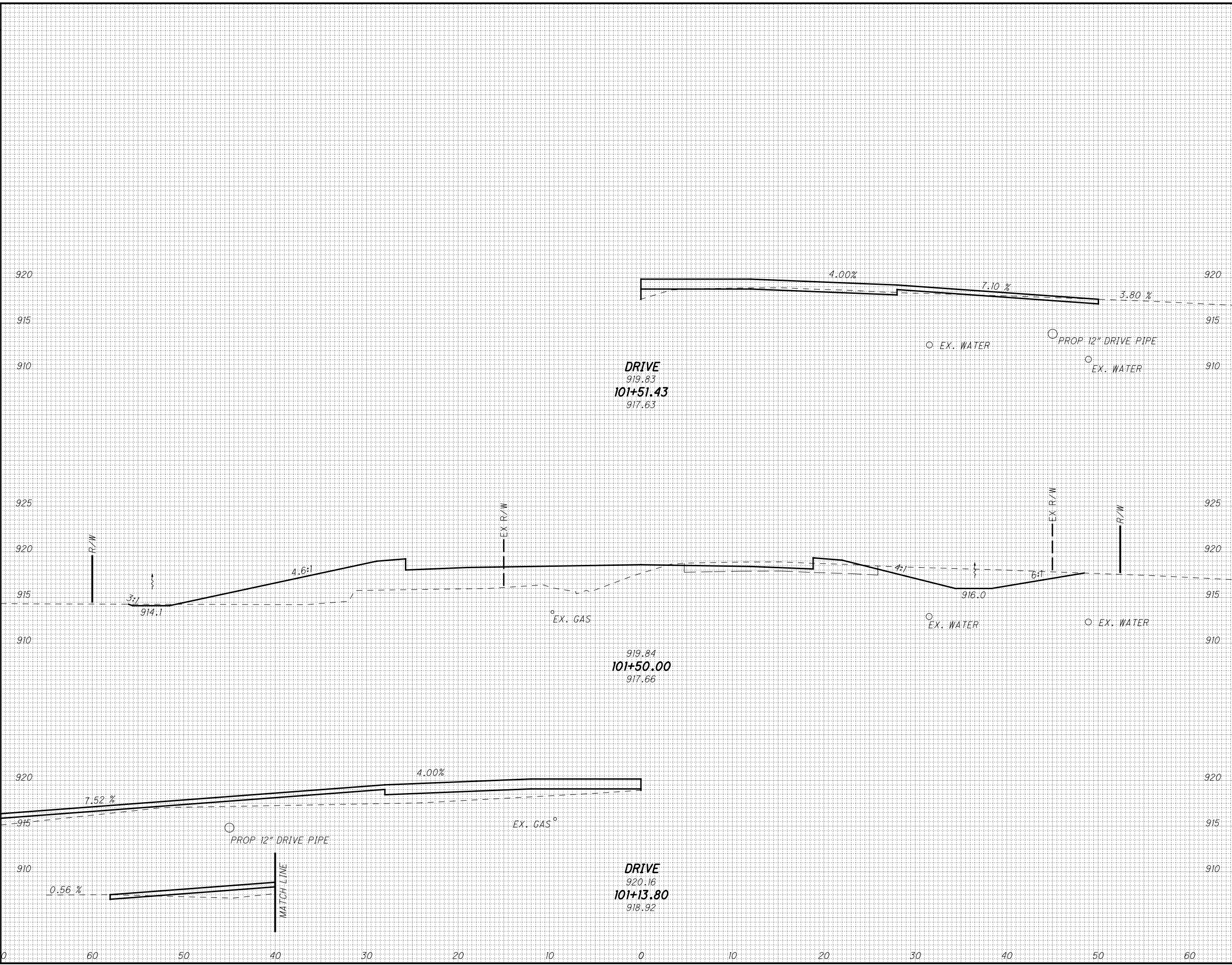
LIC-THORNWOOD

142
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:43AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MMB	JEL

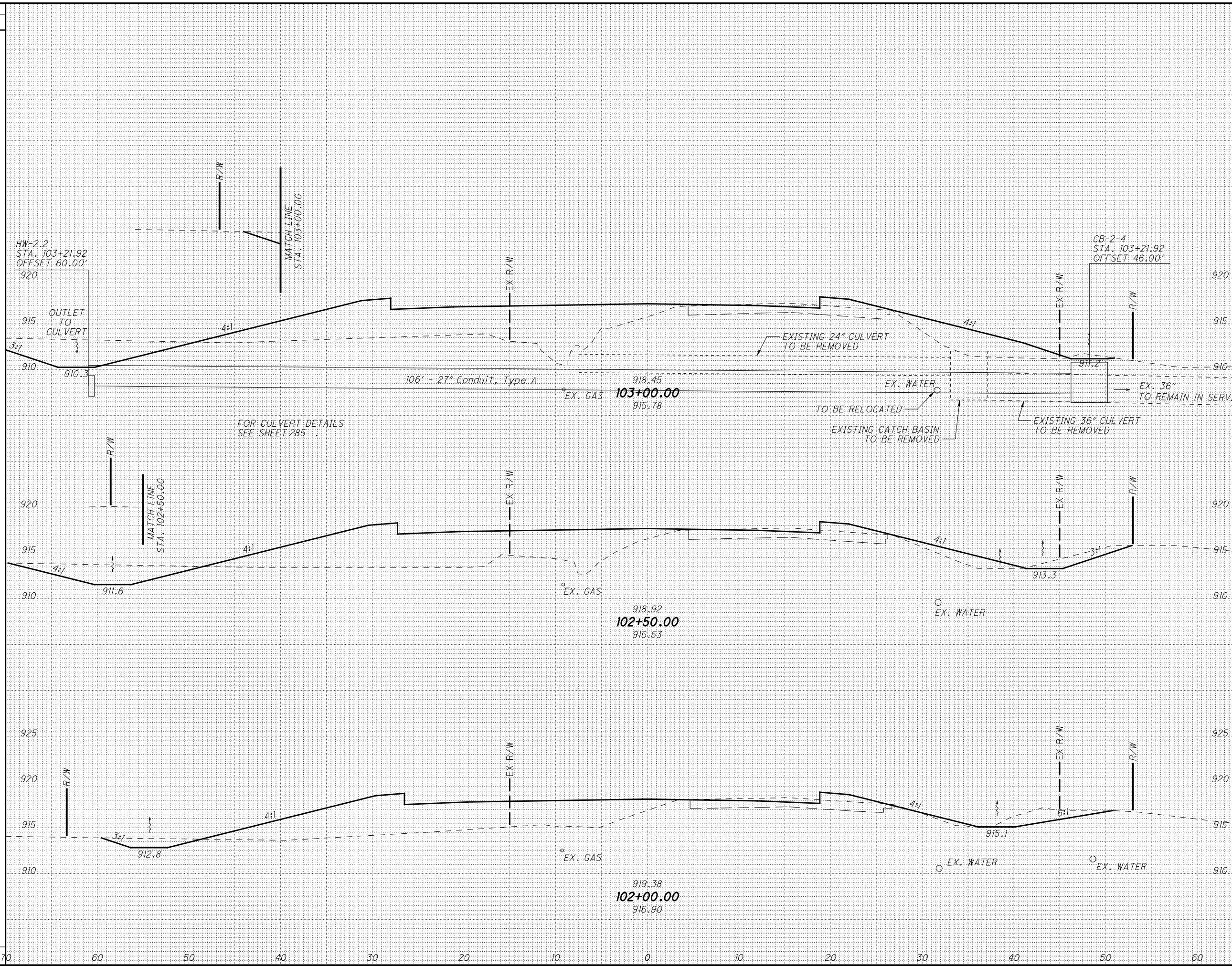
CROSS SECTIONS - THORNWOOD
STA. 101+13.80 TO STA. 101+51.43

LIC-THORNWOOD

143
288

P:\PWP\dms08268\78116\X5001.dgn 28-JUL-2010 8:43AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

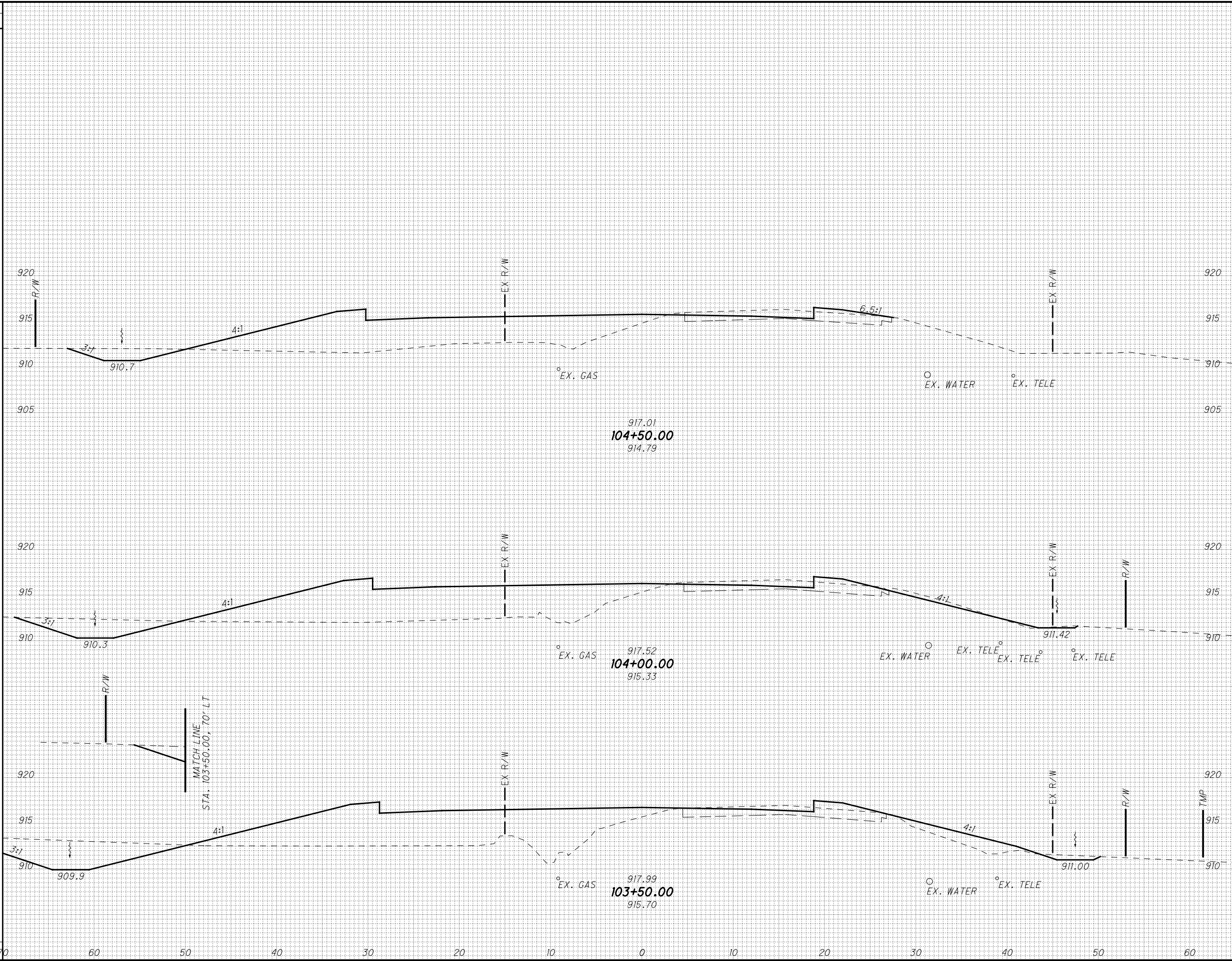
CROSS SECTIONS - THORNWOOD
 STA. 102+00.00 TO STA. 103+00.00

LIC-THORNWOOD
 144
 288

P:\PWP\dms08268\78116\S001.dgn 28-JUL-2010 8:43AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 103+50.00 TO STA. 104+50.00

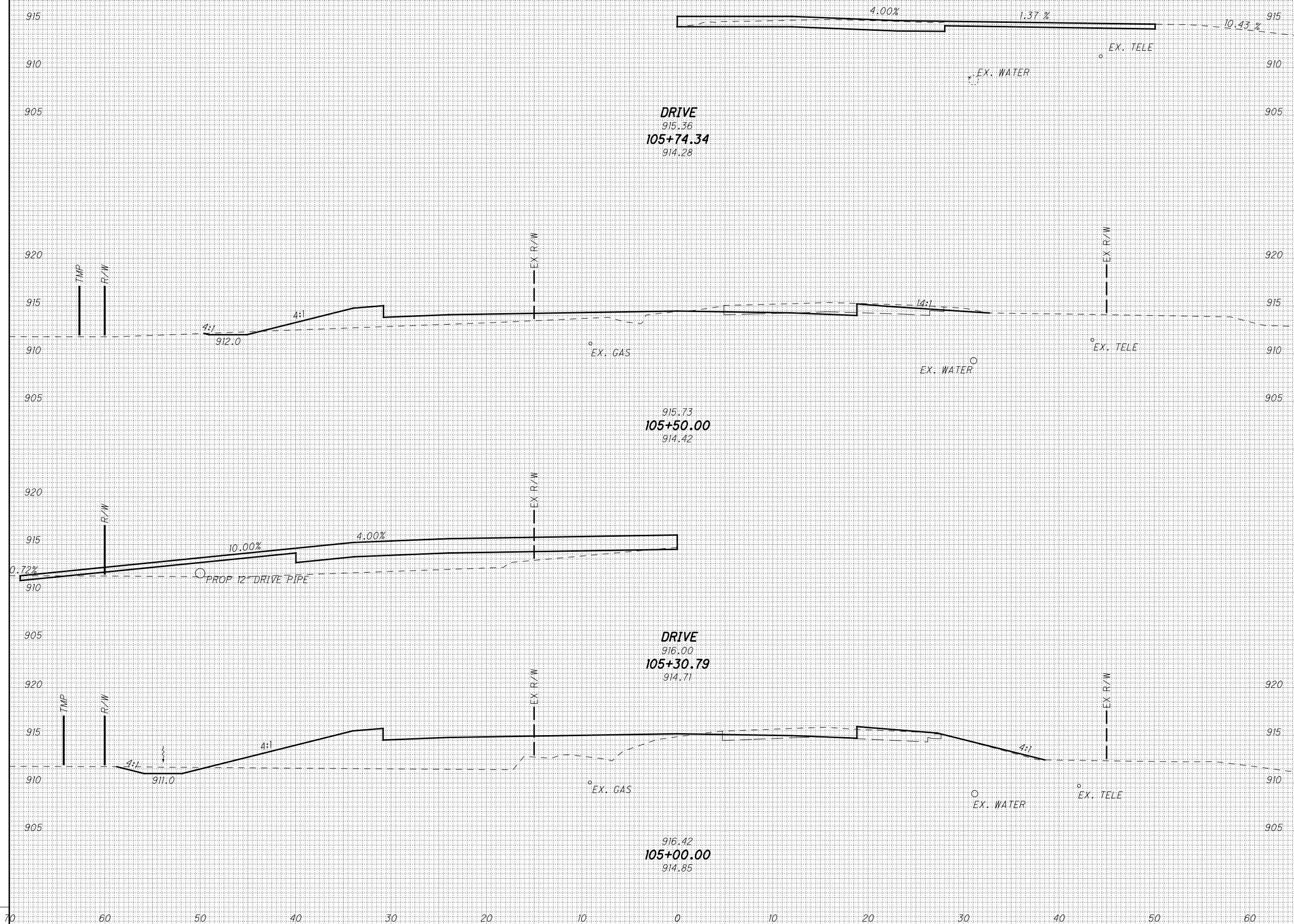
LIC-THORNWOOD

145
288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 8:44AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL



CROSS SECTIONS - THORNWOOD
STA. 105+00.00 TO STA. 105+74.34

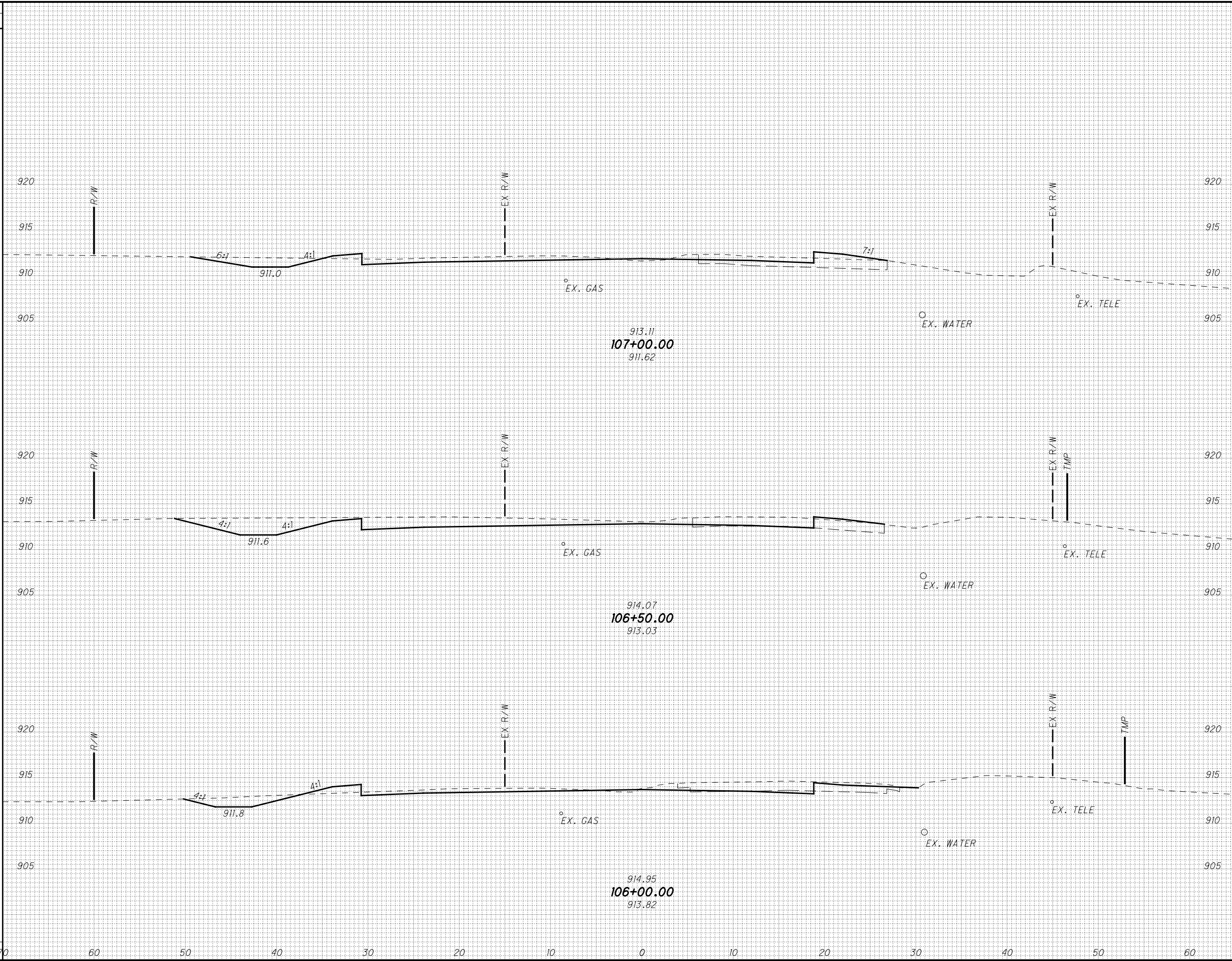
LIC-THORNWOOD

146
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:44AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 106+00.00 TO STA. 107+00.00

LIC-THORNWOOD

147
288

P:\PWP\dms08268\78116XS001.dgn 28-JUL-2010 8:44AM rgreenland

SEEDING
END WIDTH SQ. YDS.

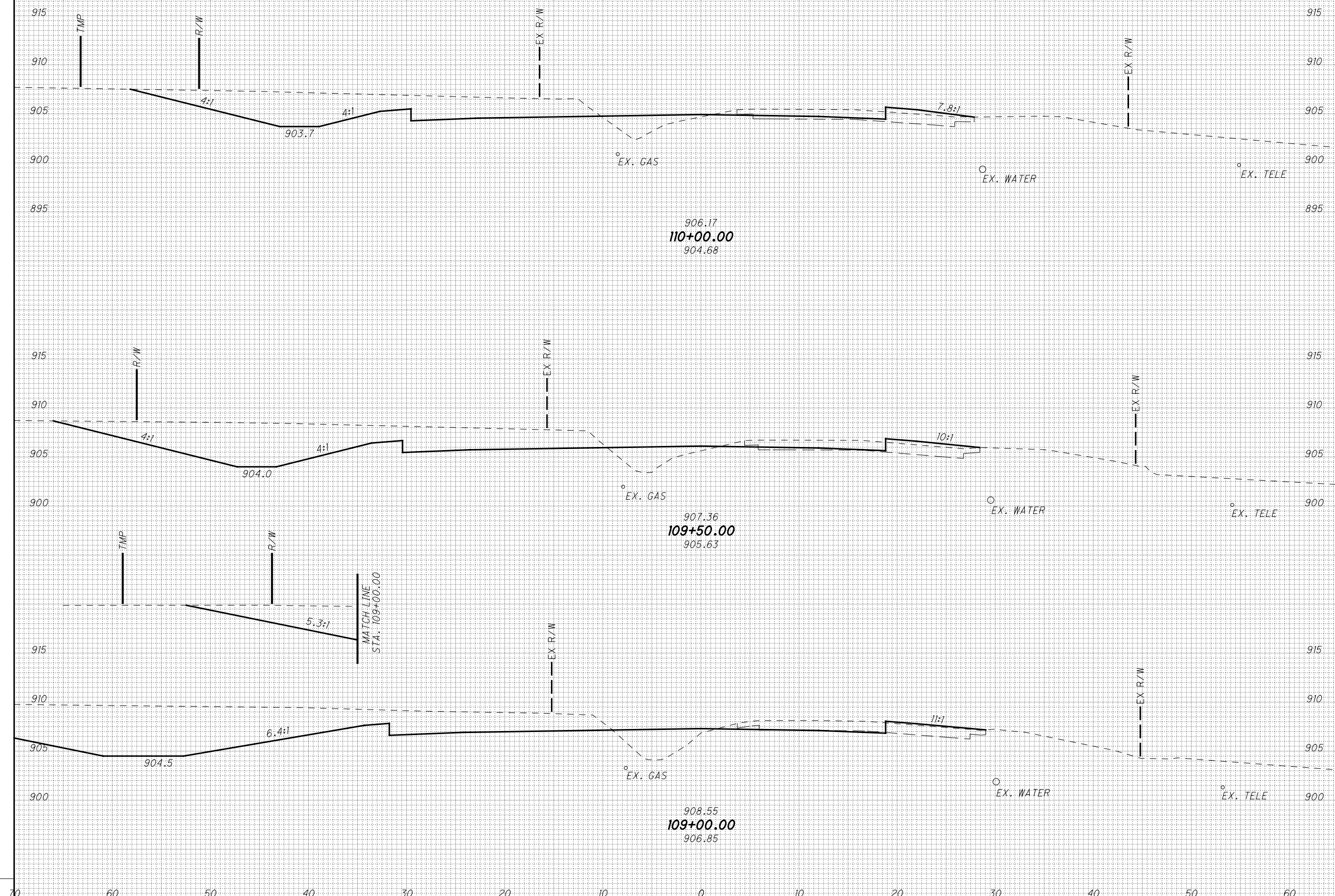
END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MMB	JEL

CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 109+00.00 TO STA. 110+00.00

LIC-THORNWOOD

149
288



906.17
110+00.00
904.68

907.36
109+50.00
905.63

908.55
109+00.00
906.85

MATCH LINE
STA. 109+00.00

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:44AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
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40	
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40	
50	
60	

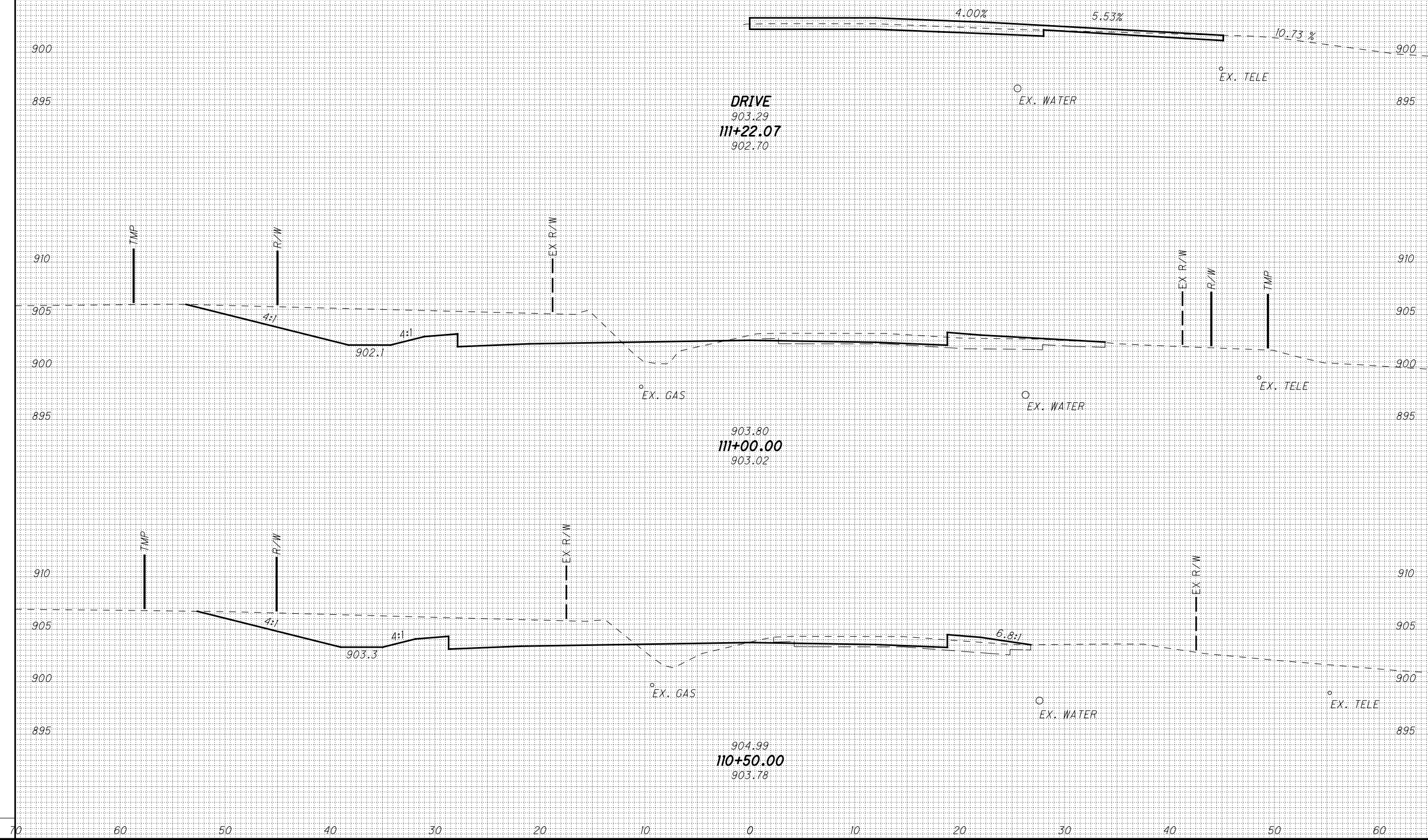
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 110+50.00 TO STA. 111+22.07

LIC-THORNWOOD

150
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 8:45AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
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40	
50	
60	

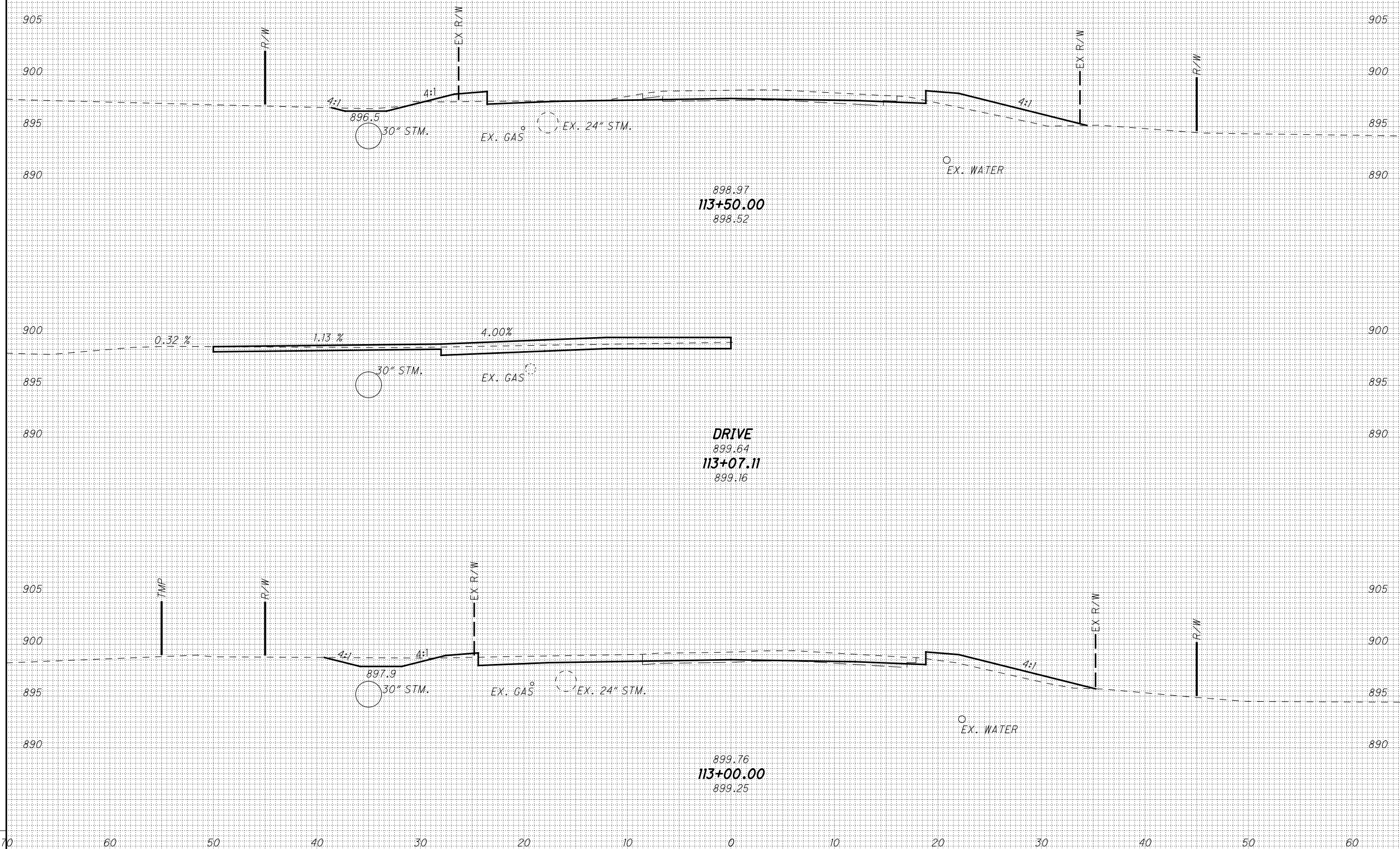
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 113+00.00 TO STA. 113+50.00

LIC-THORNWOOD

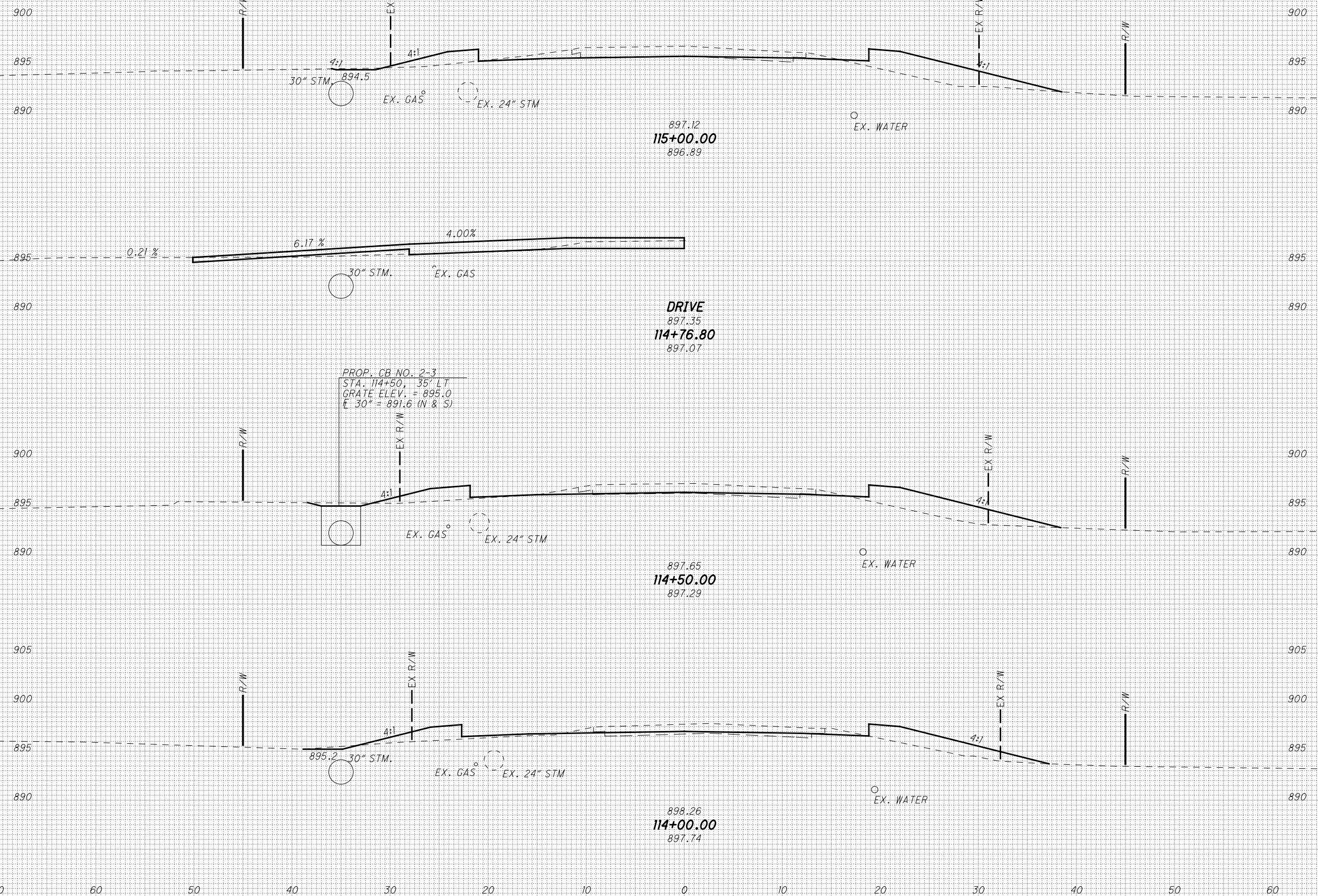
152
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:19AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB CHECKED
JEL

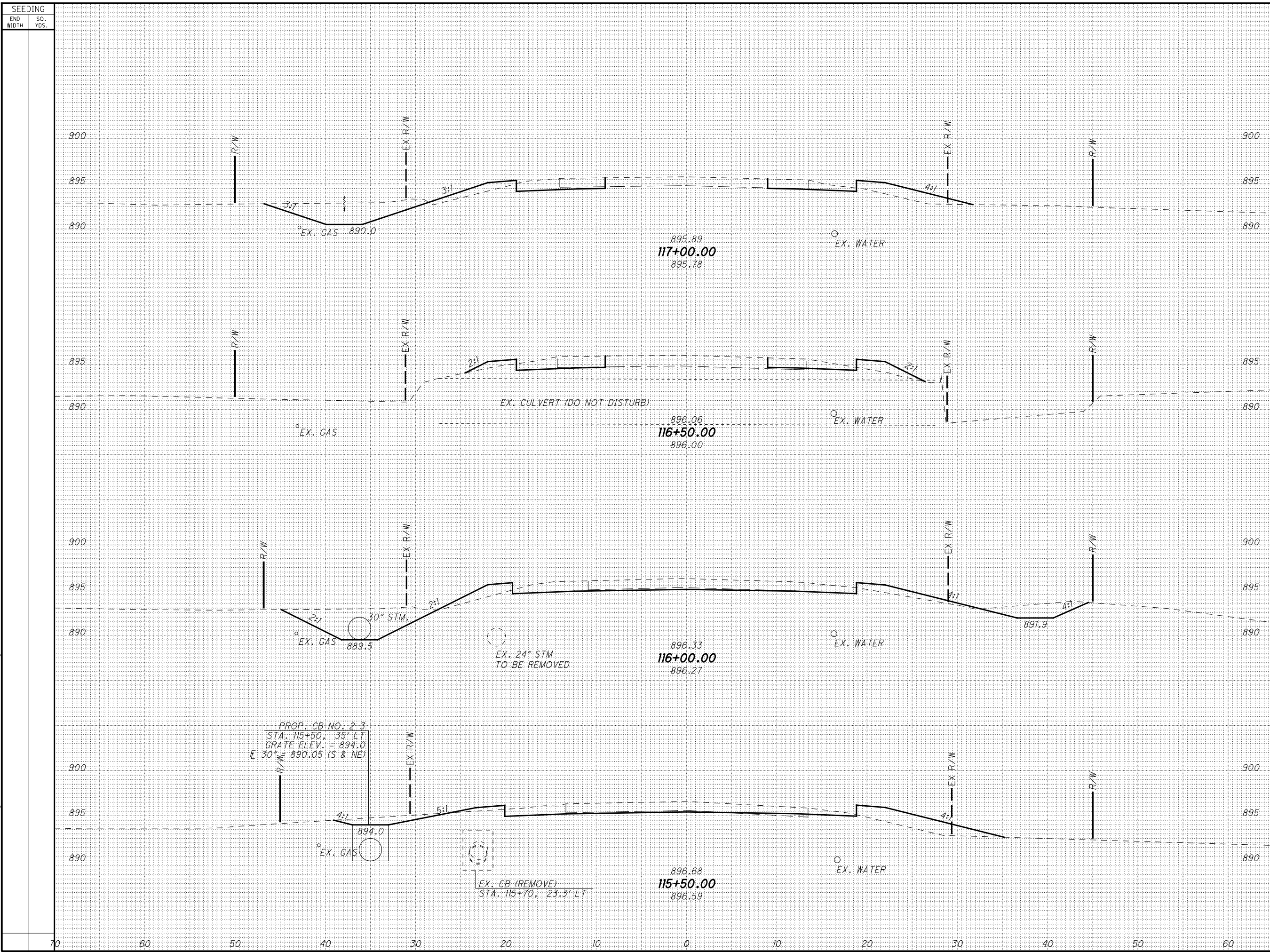


CROSS SECTIONS - THORNWOOD
STA. 114+00.00 TO STA. 115+00.00

LIC-THORNWOOD

153
288

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SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	MMB	JEL

**CROSS SECTIONS - THORNWOOD
STA. 115+50.00 TO STA. 117+00.00**

LIC-THORNWOOD

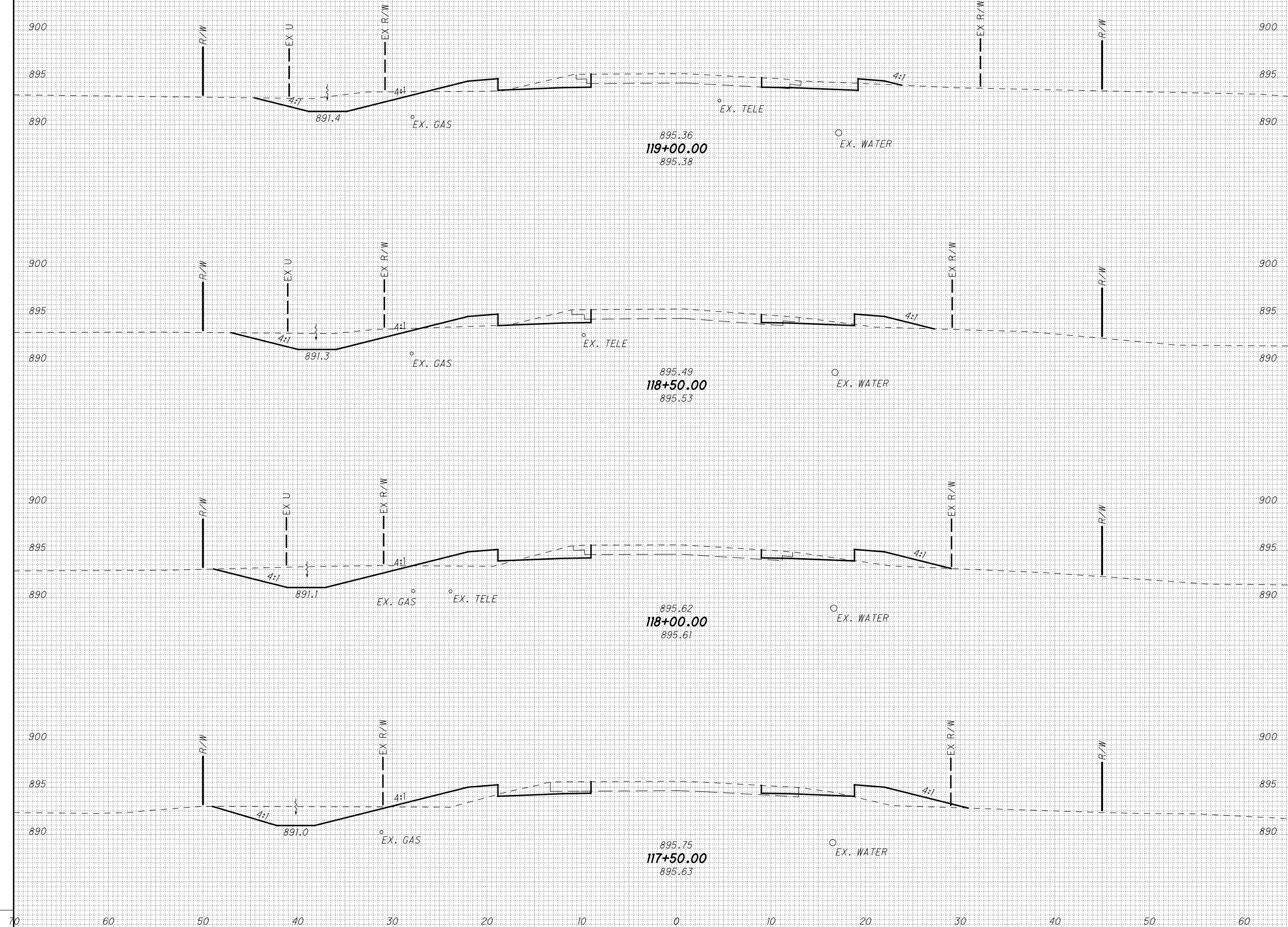
154
288

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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 117+50.00 TO STA. 119+00.00

LIC-THORNWOOD

155
288

IP_PWP:dms08268\78116\5001.dgn 28-JUL-2010 9:20AM rgreenland

SEEDING
END WIDTH SQ. YDS.

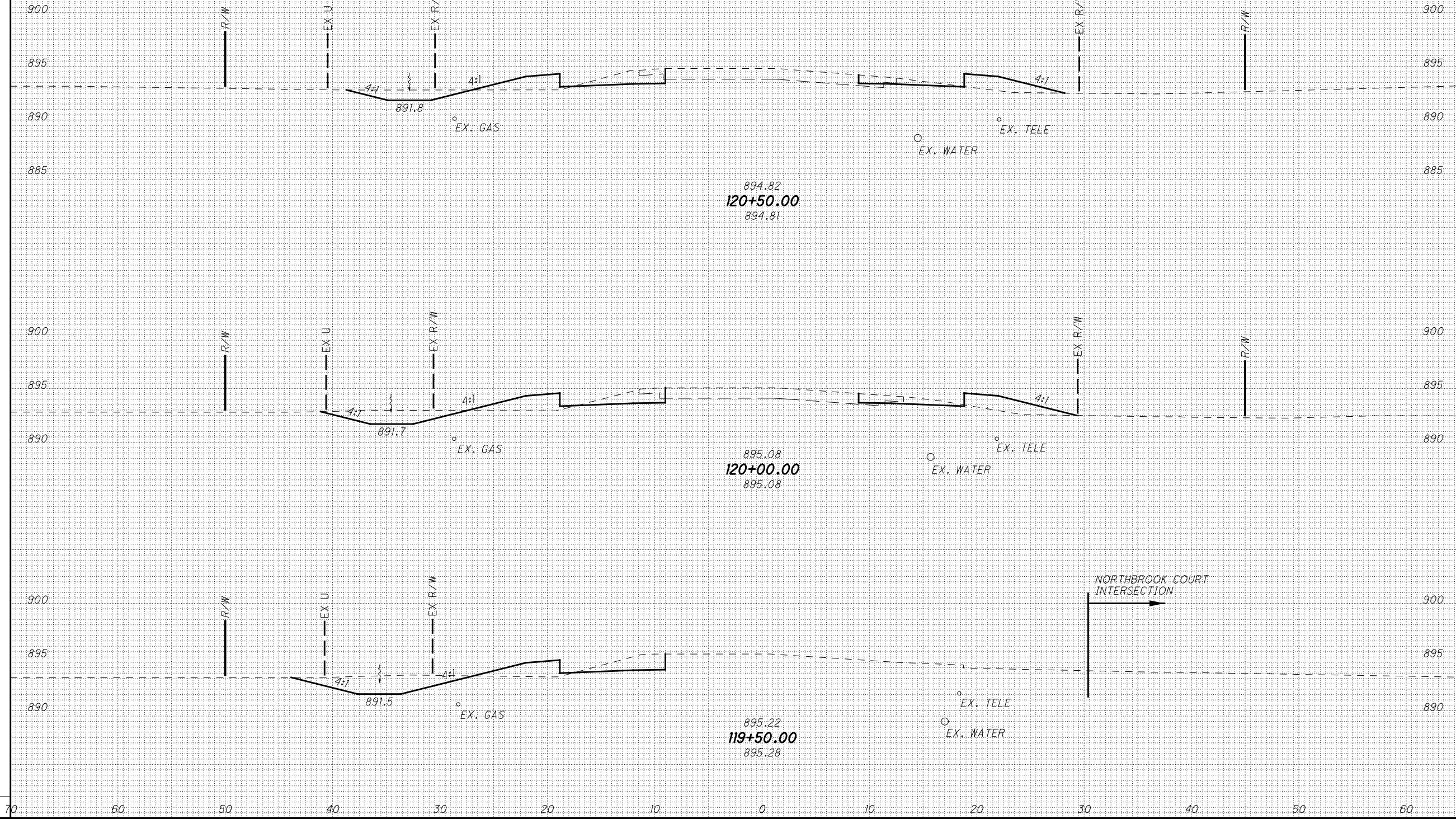
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 119+50.00 TO STA. 120+50.00

LIC-THORNWOOD

156
288

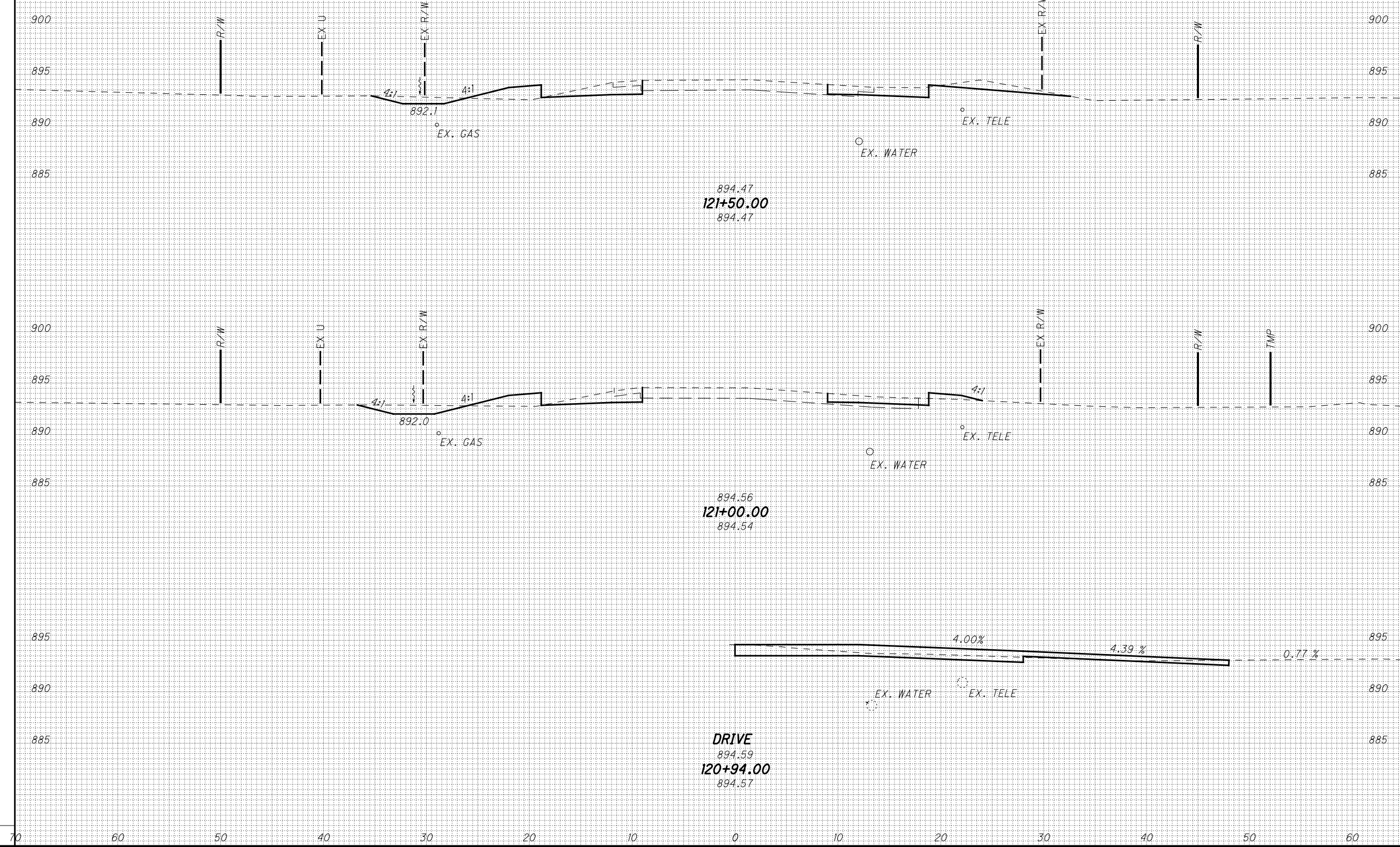


NORTHBROOK COURT INTERSECTION

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:20AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL



CROSS SECTIONS - THORNWOOD
STA. 120+94.00 TO STA. 121+50.00

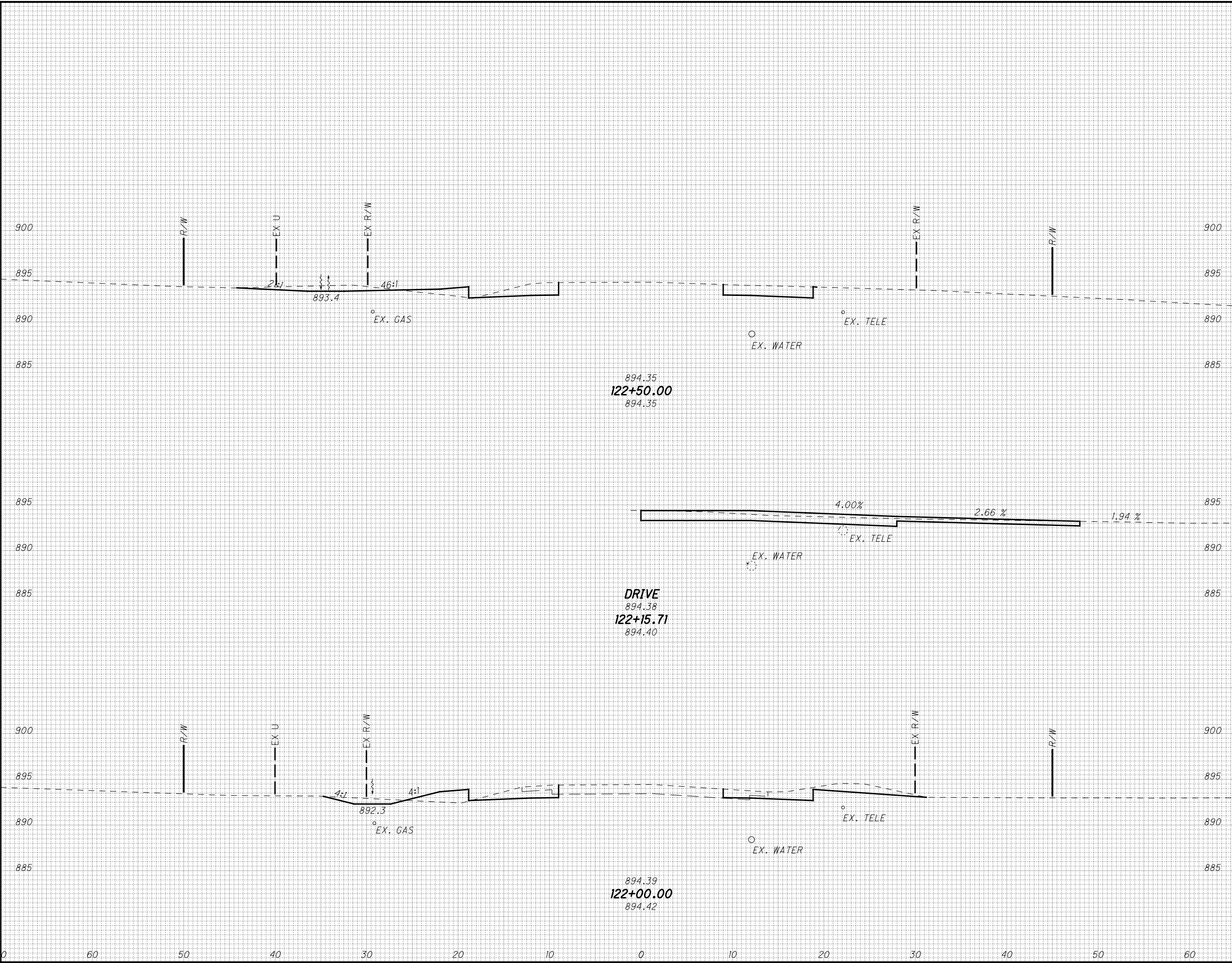
LIC-THORNWOOD

157
288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:20AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 122+00.00 TO STA. 122+50.00

LIC-THORNWOOD

158
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:21AM rgreenland

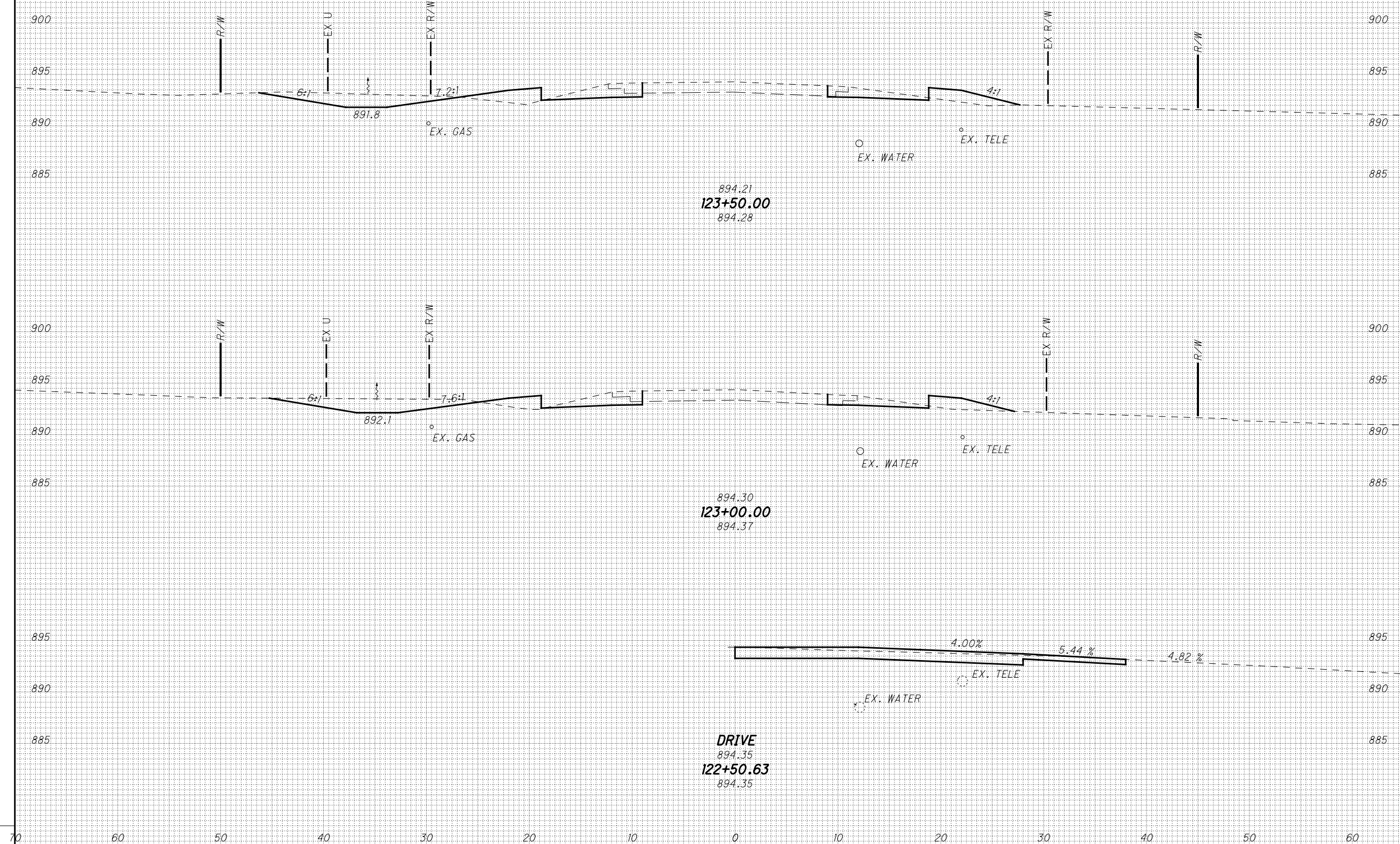
SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL

CROSS SECTIONS - THORNWOOD
STA. 122+50.63 TO STA. 123+50.00

LIC-THORNWOOD

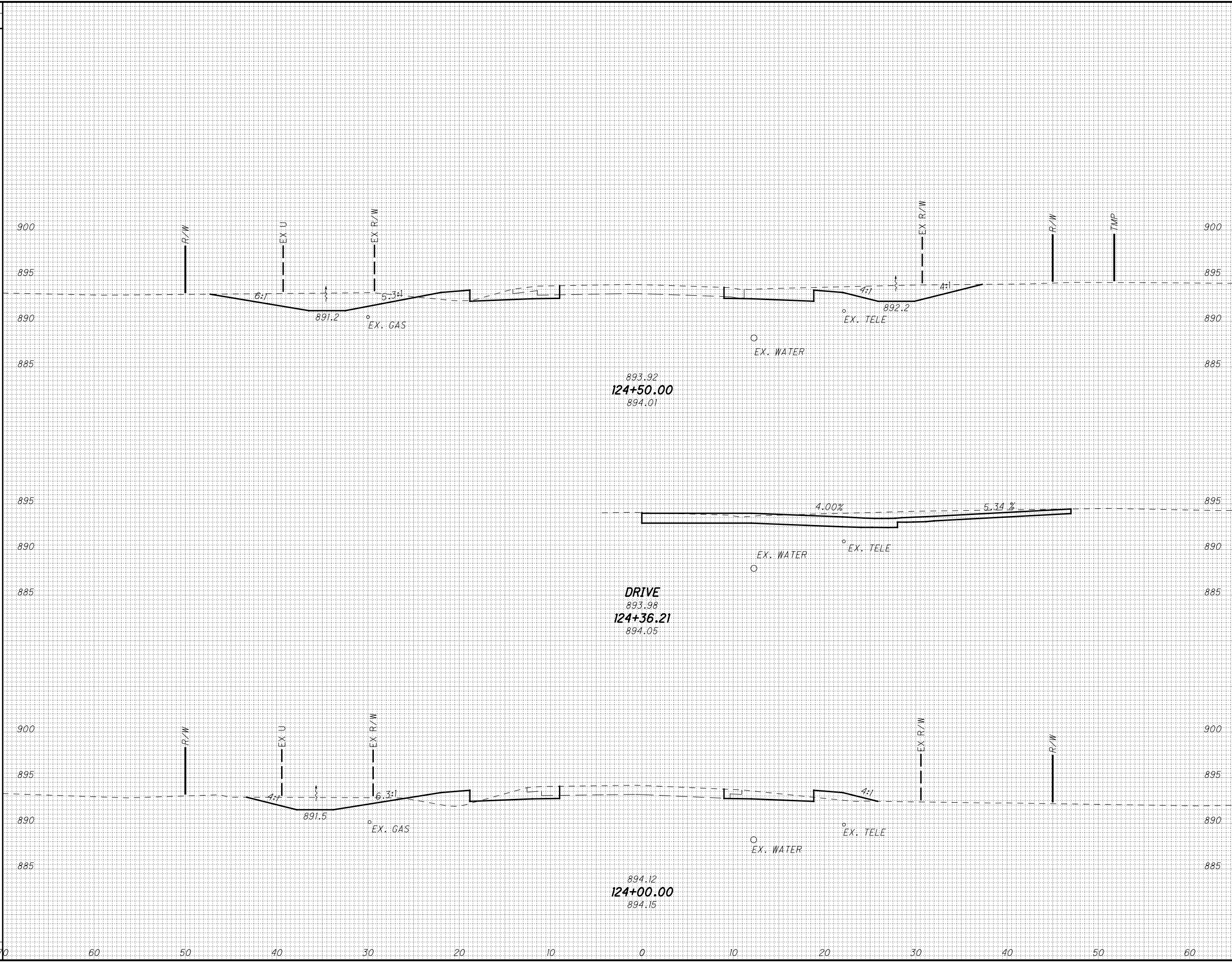
159
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:21AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 124+00.00 TO STA. 124+50.00

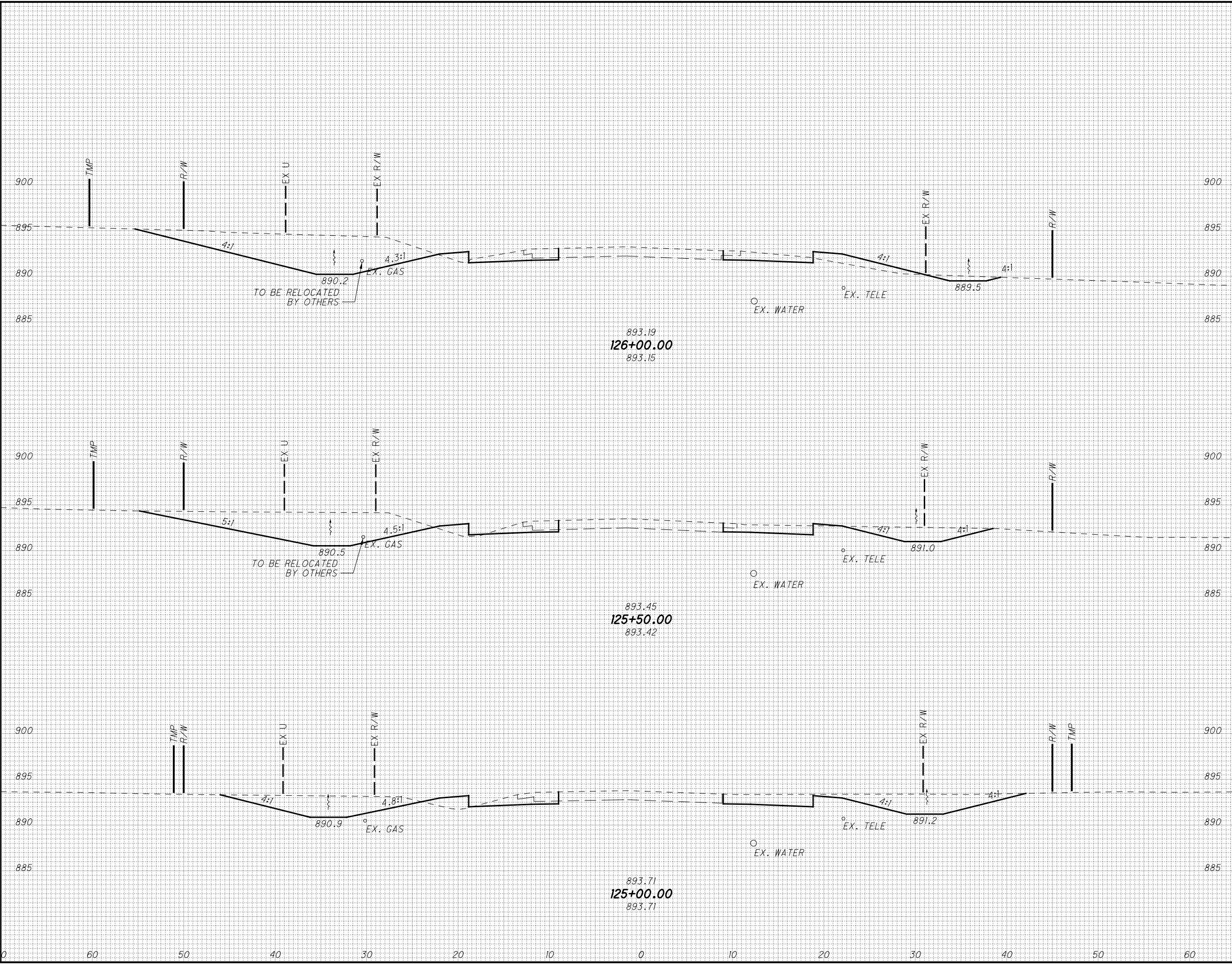
LIC-THORNWOOD

160
288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:21AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 125+00.00 TO STA. 126+00.00

LIC-THORNWOOD

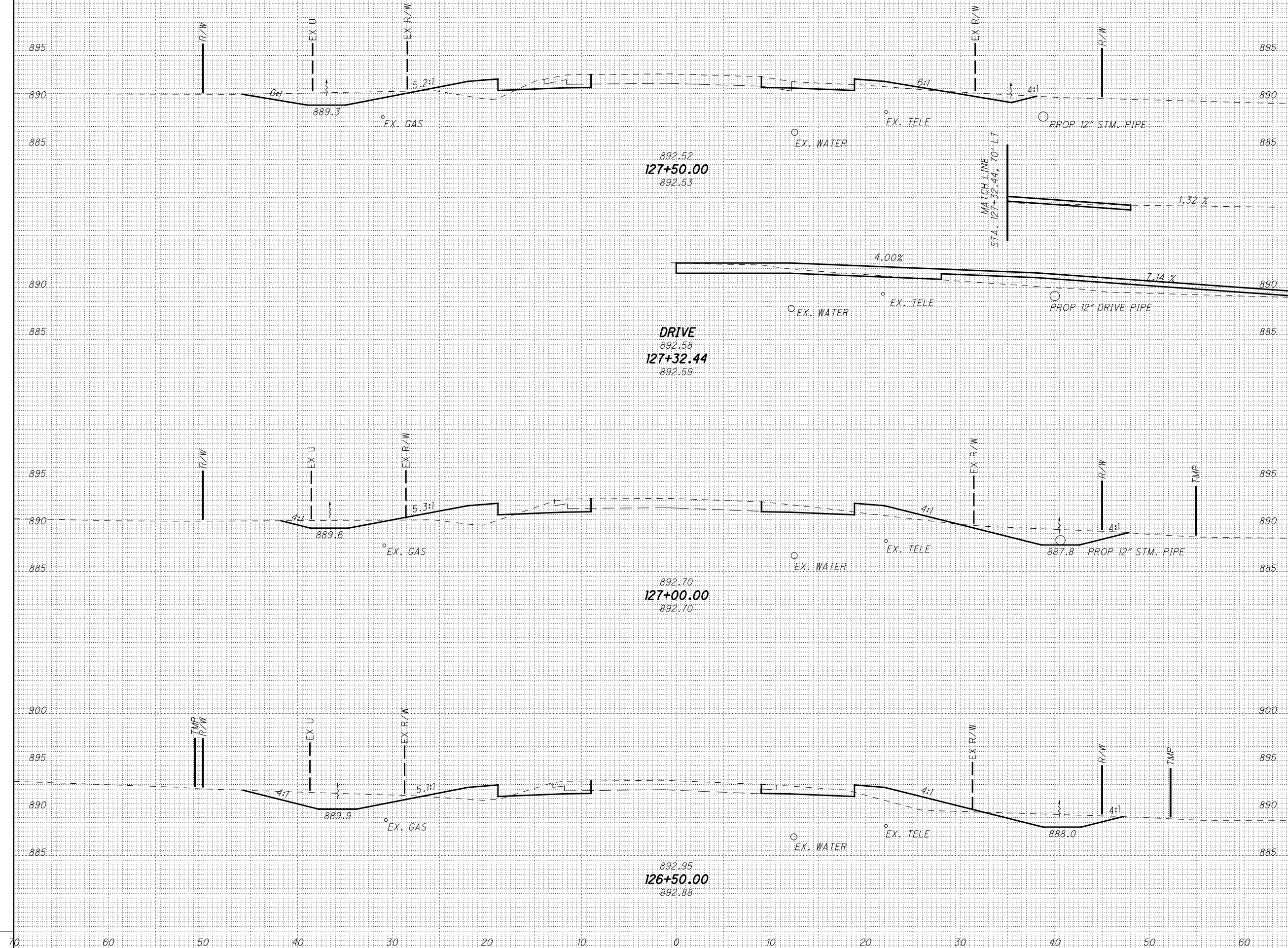
161
288

P:\PWP\dms08268\78116XS001.dgn 28-JUL-2010 9:21AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 126+50.00 TO STA. 127+50.00

LIC-THORNWOOD

162
288

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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL



CROSS SECTIONS - THORNWOOD
STA. 128+00.00 TO STA. 129+00.00

LIC-THORNWOOD

163
288

P:\PWP\dms08268\78116\S001.dgn 28-JUL-2010 9:21AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	
70	

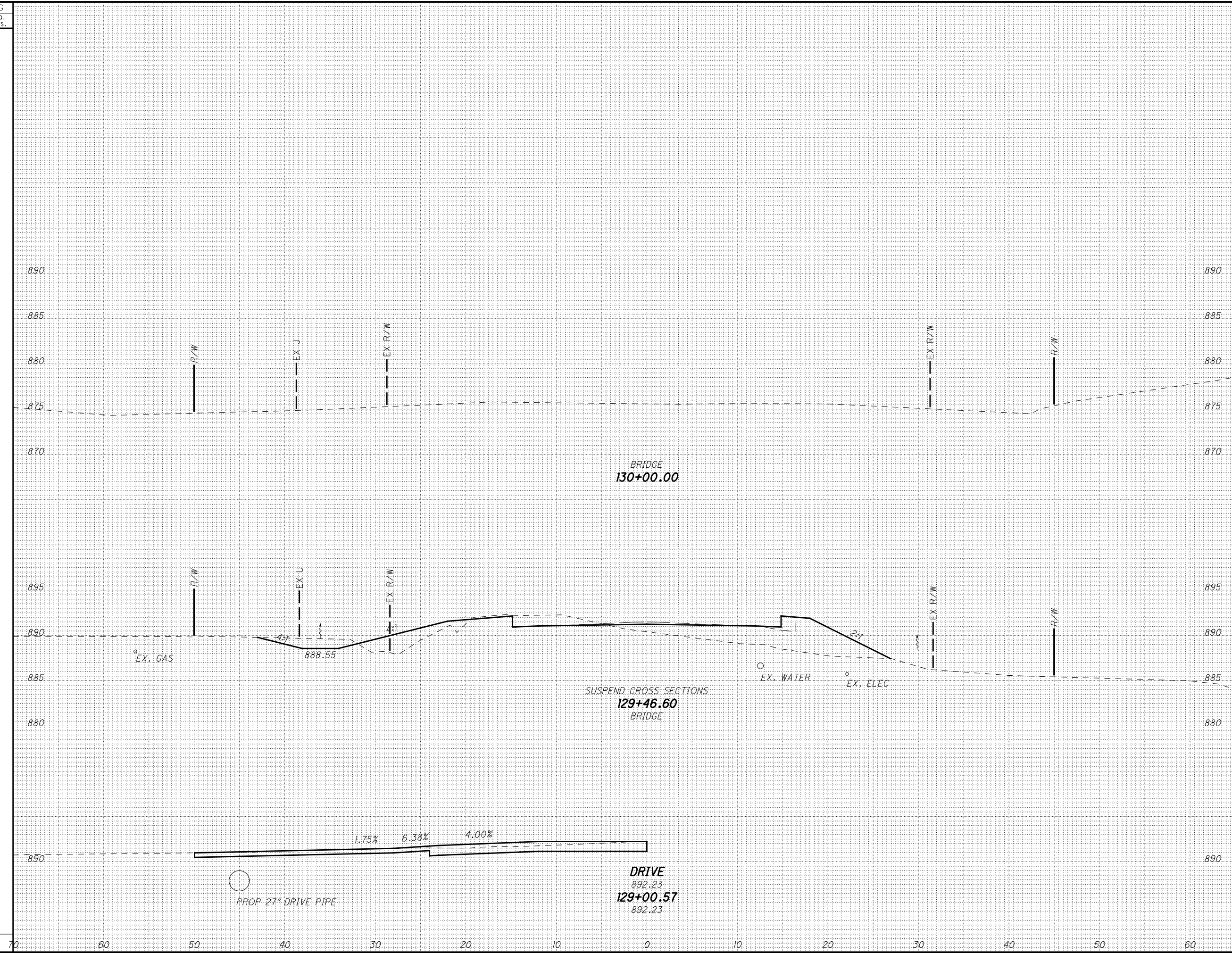
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 129+00.57 TO STA. 130+00.00

LIC-THORNWOOD

164
288



BRIDGE
130+00.00

SUSPEND CROSS SECTIONS
129+46.60
BRIDGE

DRIVE
892.23
129+00.57
892.23

PROP 27" DRIVE PIPE

EX. GAS

EX. WATER

EX. ELEC

EX U

EX R/W

EX R/W

R/W

R/W

EX U

EX R/W

EX R/W

R/W

1.75%

6.38%

4.00%

4:1

2:1

888.55

890

885

880

875

870

895

890

885

880

890

890

885

880

875

870

895

890

885

880

890

70

60

50

40

30

20

10

0

10

20

30

40

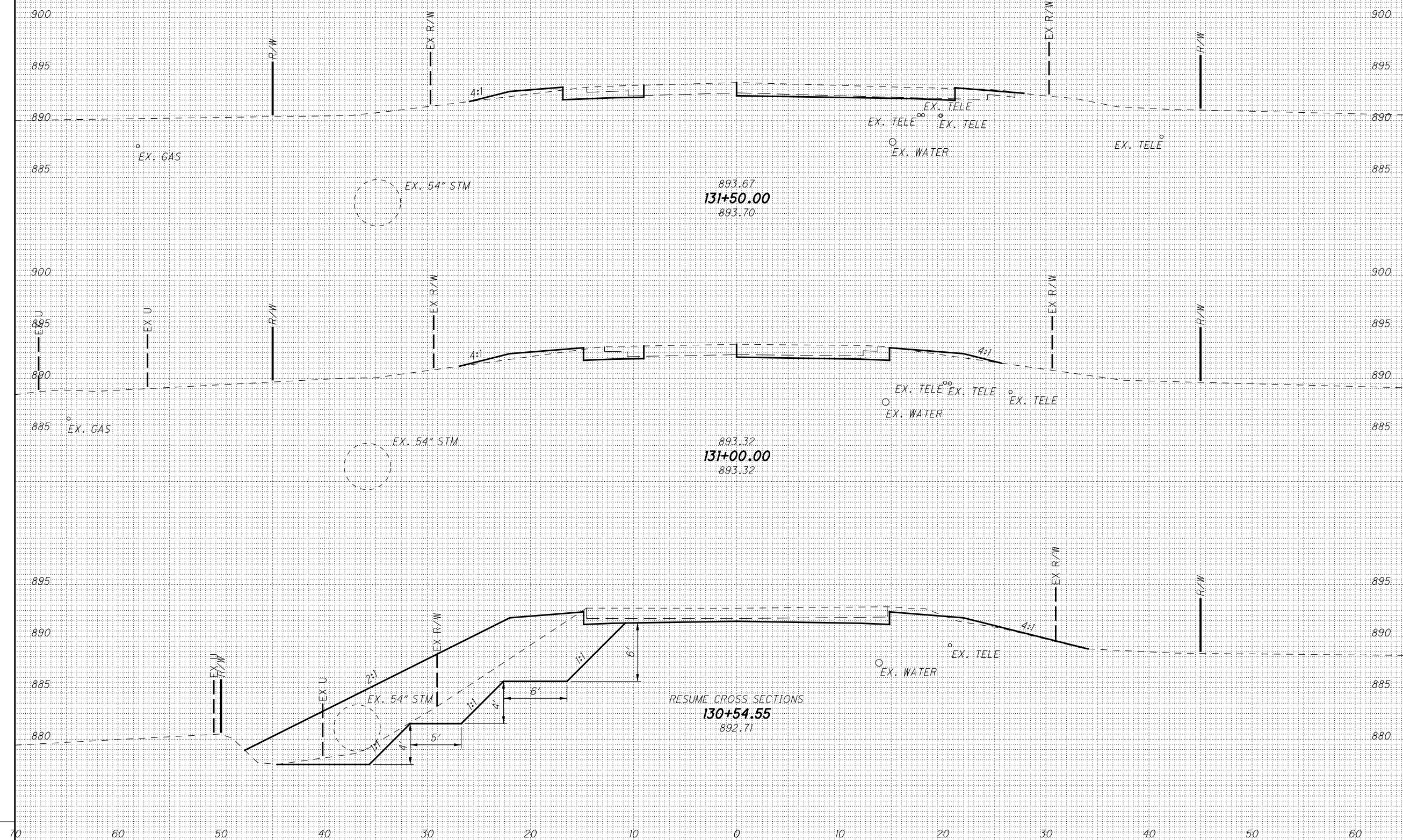
50

60

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:22AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB CHECKED
JEL



893.67
131+50.00
893.70

893.32
131+00.00
893.32

RESUME CROSS SECTIONS
130+54.55
892.71

CROSS SECTIONS - THORNWOOD
STA. 130+50.00 TO STA. 131+50.00

LIC-THORNWOOD

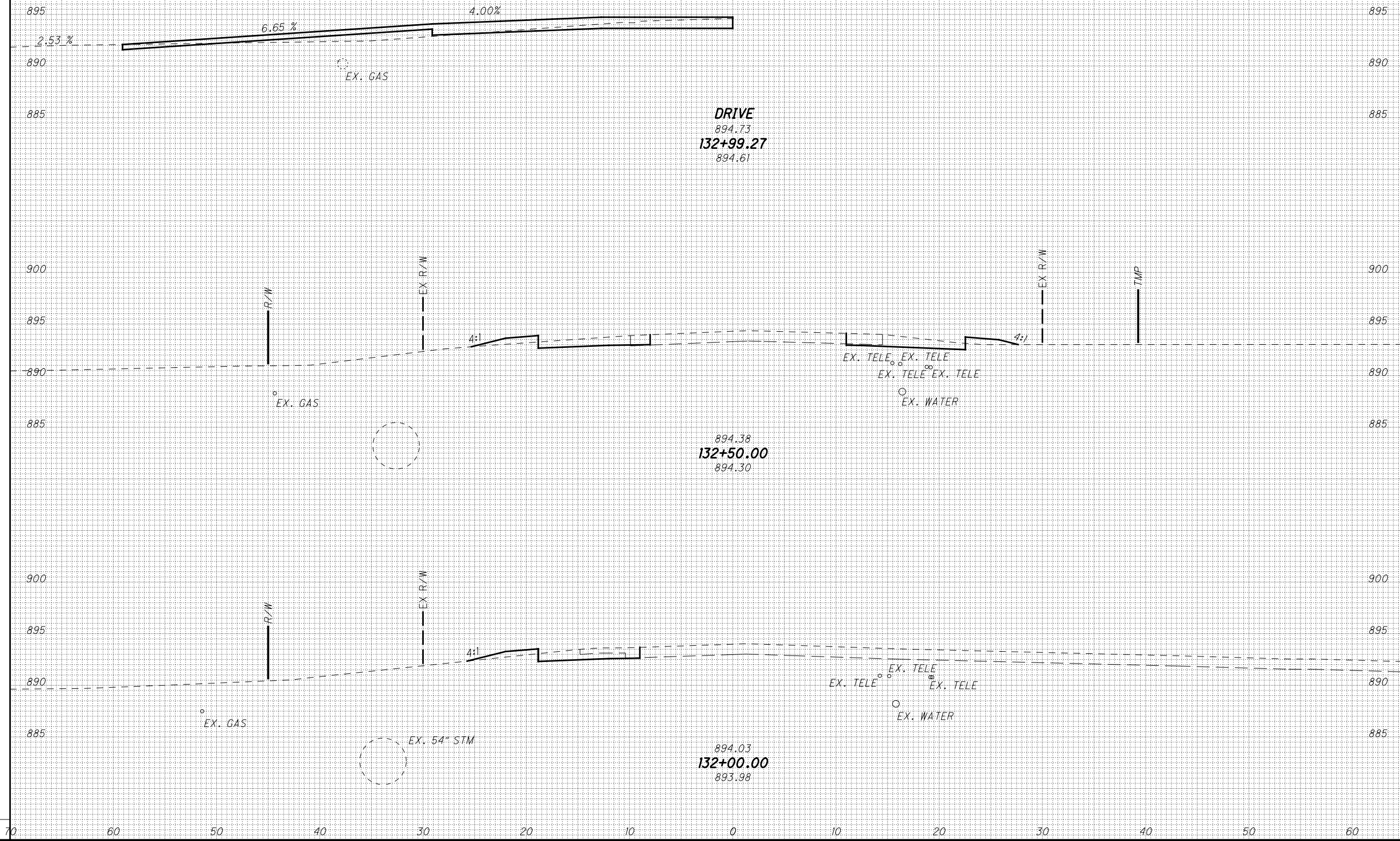
165
288

IP_PWP:dms08268\78116\S001.dgn 28-JUL-2010 9:22AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 132+00.00 TO STA. 132+99.27

LIC-THORNWOOD

166
288

IP_PWP:dms08268\78116\5001.dgn 28-JUL-2010 9:22AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

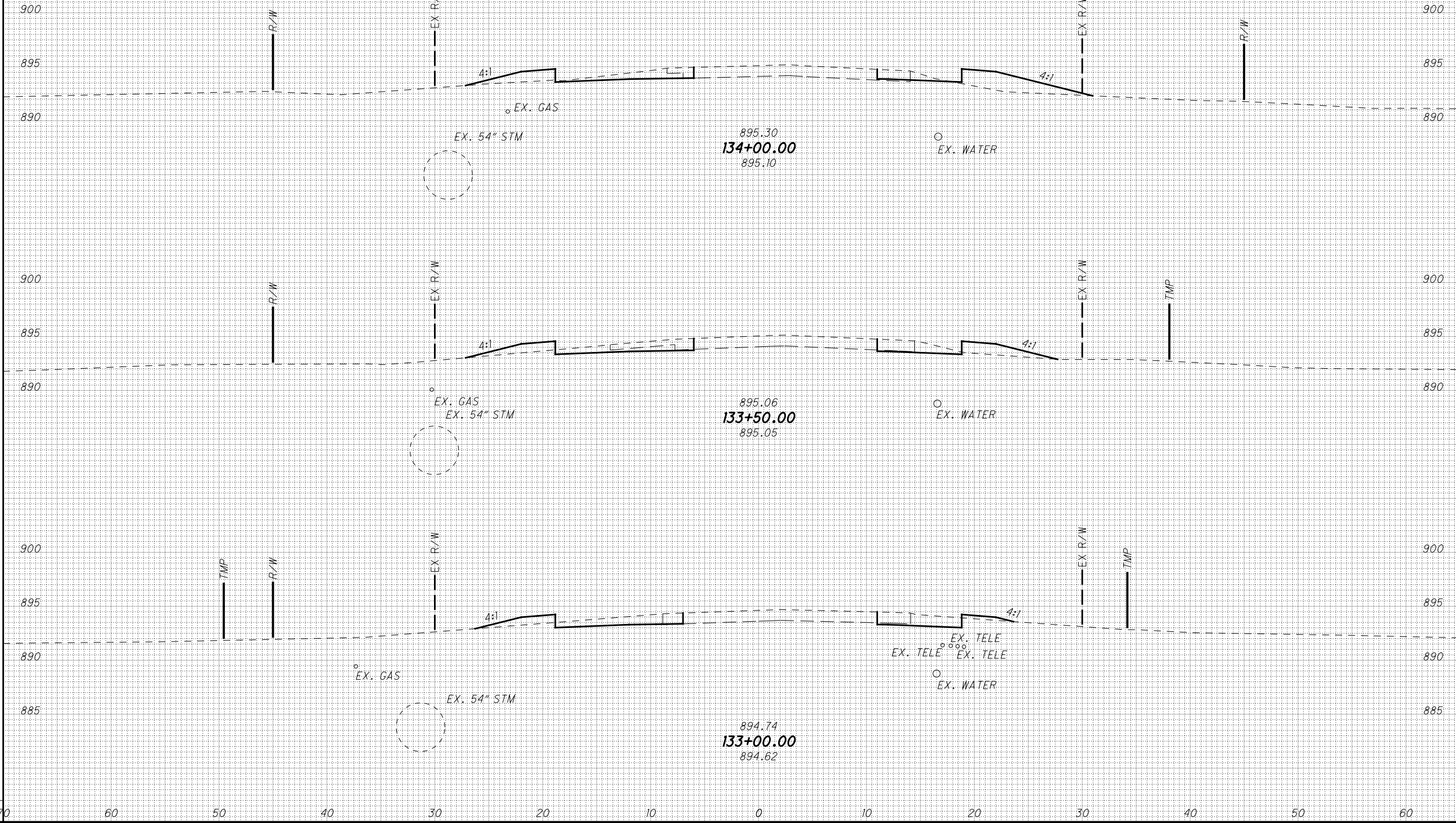
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 133+00.00 TO STA. 134+00.00

LIC-THORNWOOD

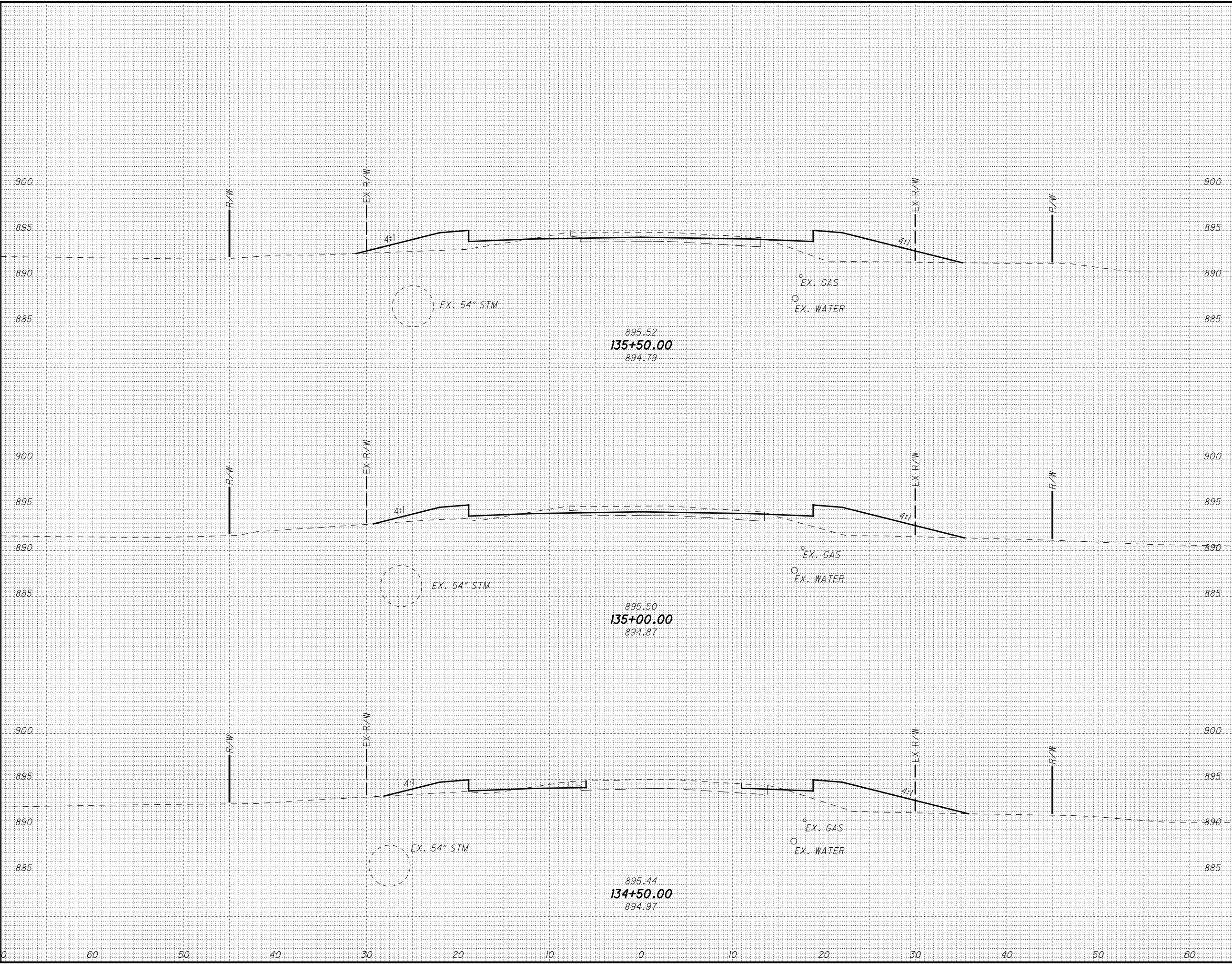
167
288



P:\PWP\dms08268\78116\X5001.dgn 28-JUL-2010 9:22AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 134+50.00 TO STA. 135+50.00

LIC-THORNWOOD

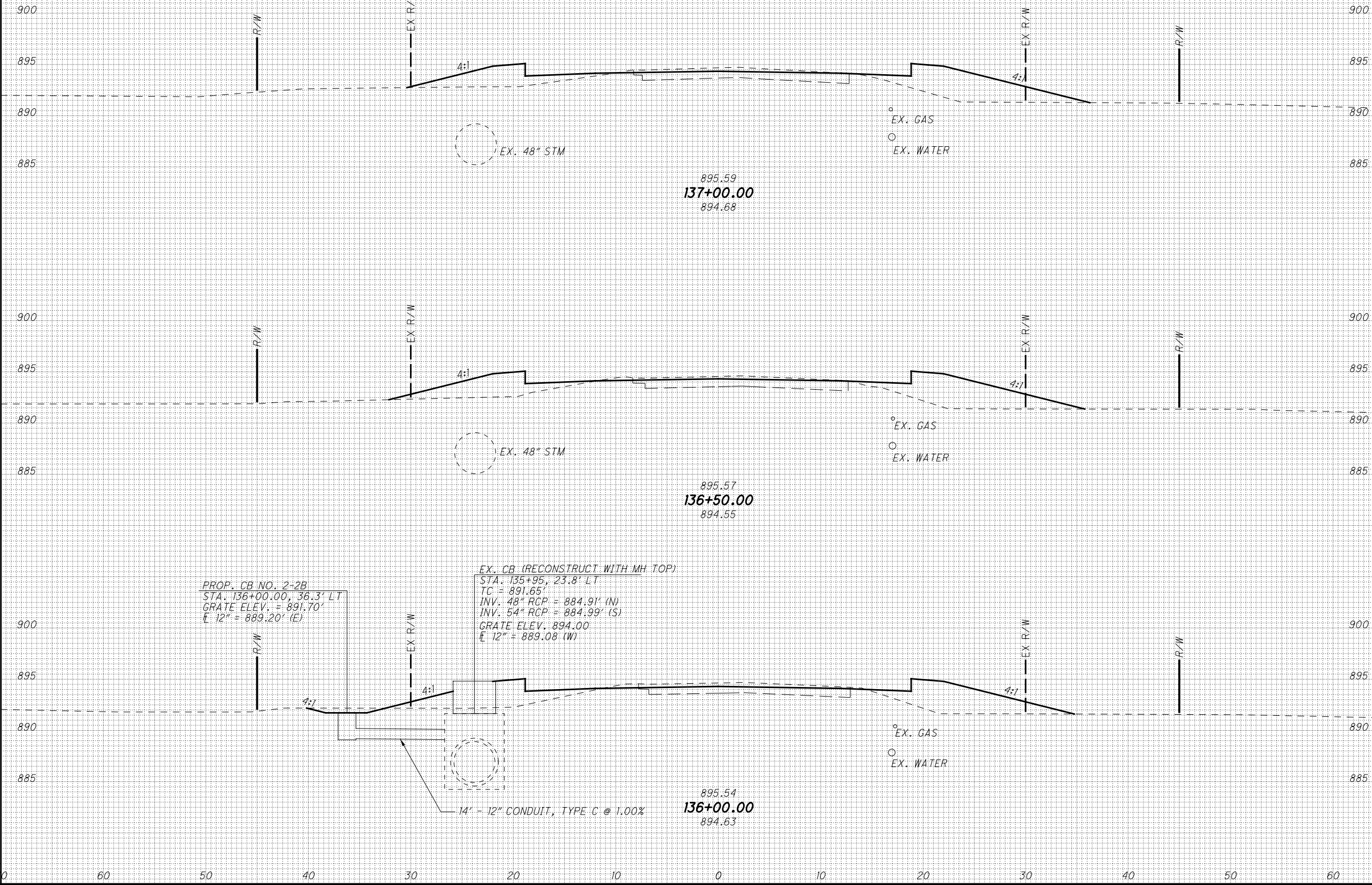
168
288

P:\PWP\dms08268\78116\5001.dgn 28-JUL-2010 9:22AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CROSS SECTIONS - THORNWOOD
STA. 136+00.00 TO STA. 137+00.00

LIC-THORNWOOD

169
288

CALCULATED	MMB	CHECKED	JEL
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SEEDING

END WIDTH	SQ. YDS.

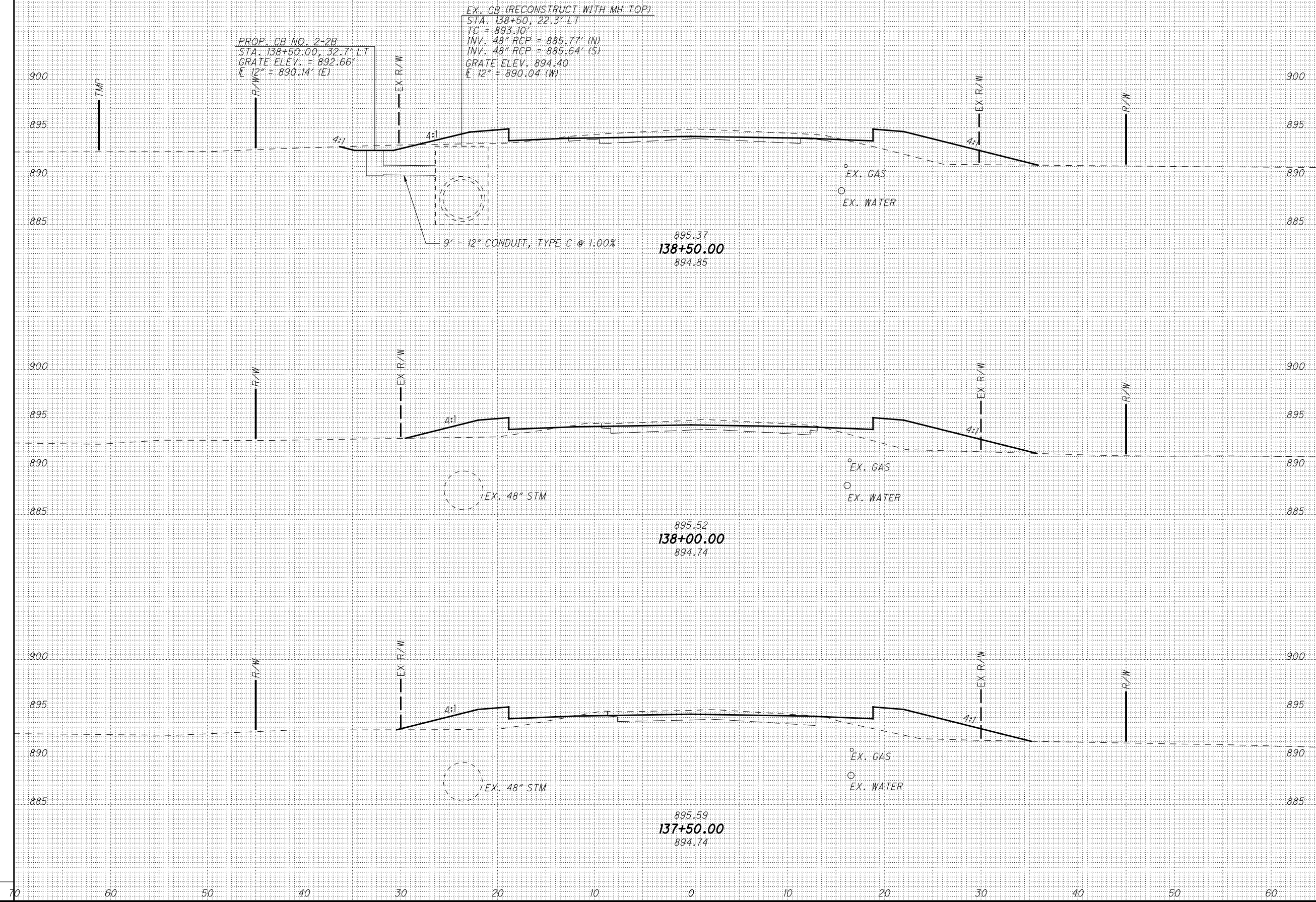
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
STA. 137+50.00 TO STA. 138+50.00

LIC-THORNWOOD

170
288



PROP. CB NO. 2-2B
STA. 138+50.00, 32.7' LT
GRATE ELEV. = 892.66'
E 12" = 890.14' (E)

EX. CB (RECONSTRUCT WITH MH TOP)
STA. 138+50, 22.3' LT
TC = 893.10'
INV. 48" RCP = 885.77' (N)
INV. 48" RCP = 885.64' (S)
GRATE ELEV. 894.40
E 12" = 890.04' (W)

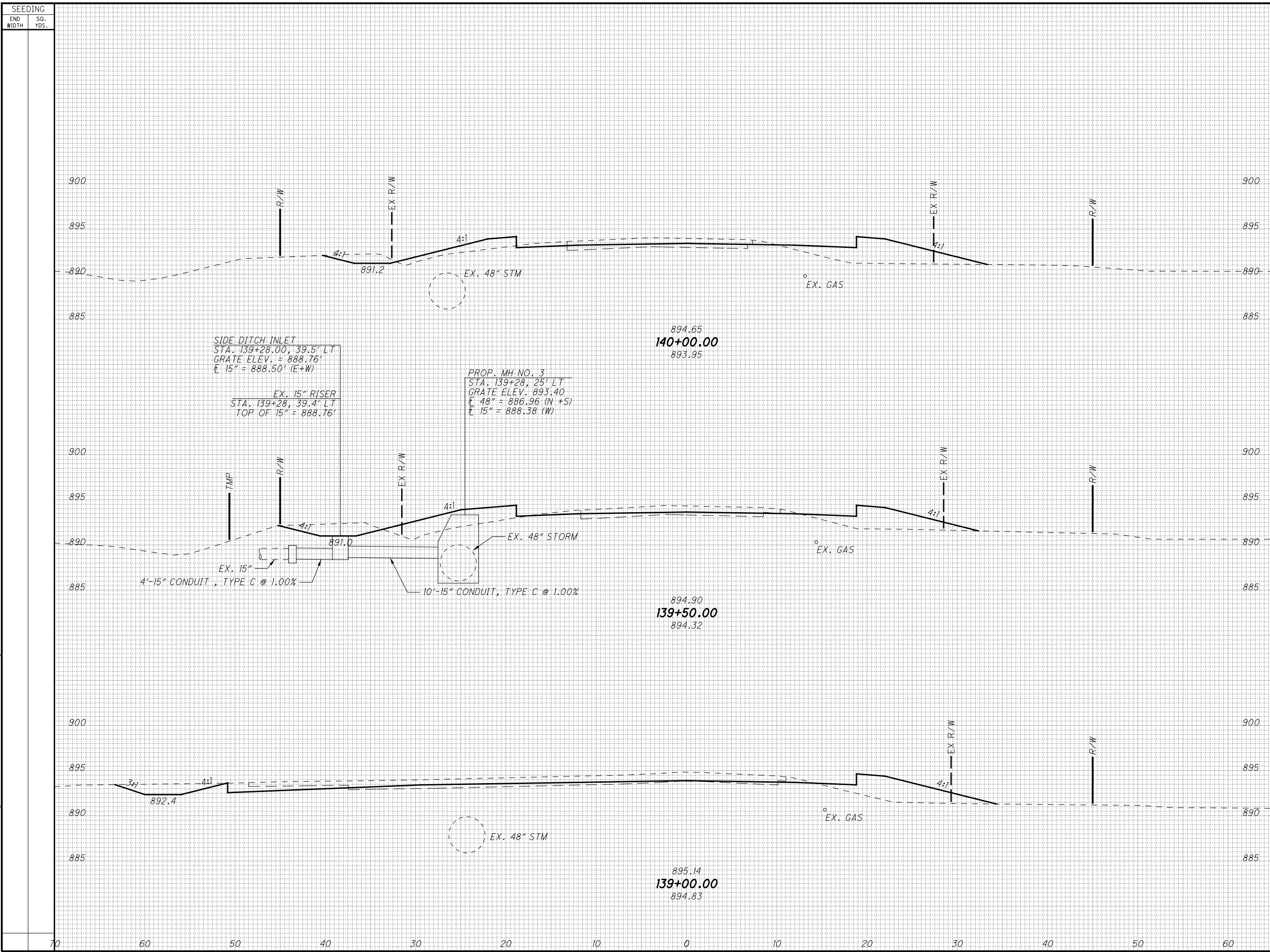
9'-12" CONDUIT, TYPE C @ 1.00%

895.37
138+50.00
894.85

895.52
138+00.00
894.74

895.59
137+50.00
894.74

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SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 139+00.00 TO STA. 140+00.00

LIC-THORNWOOD

171
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:23AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 140+50.00 TO STA. 141+50.00

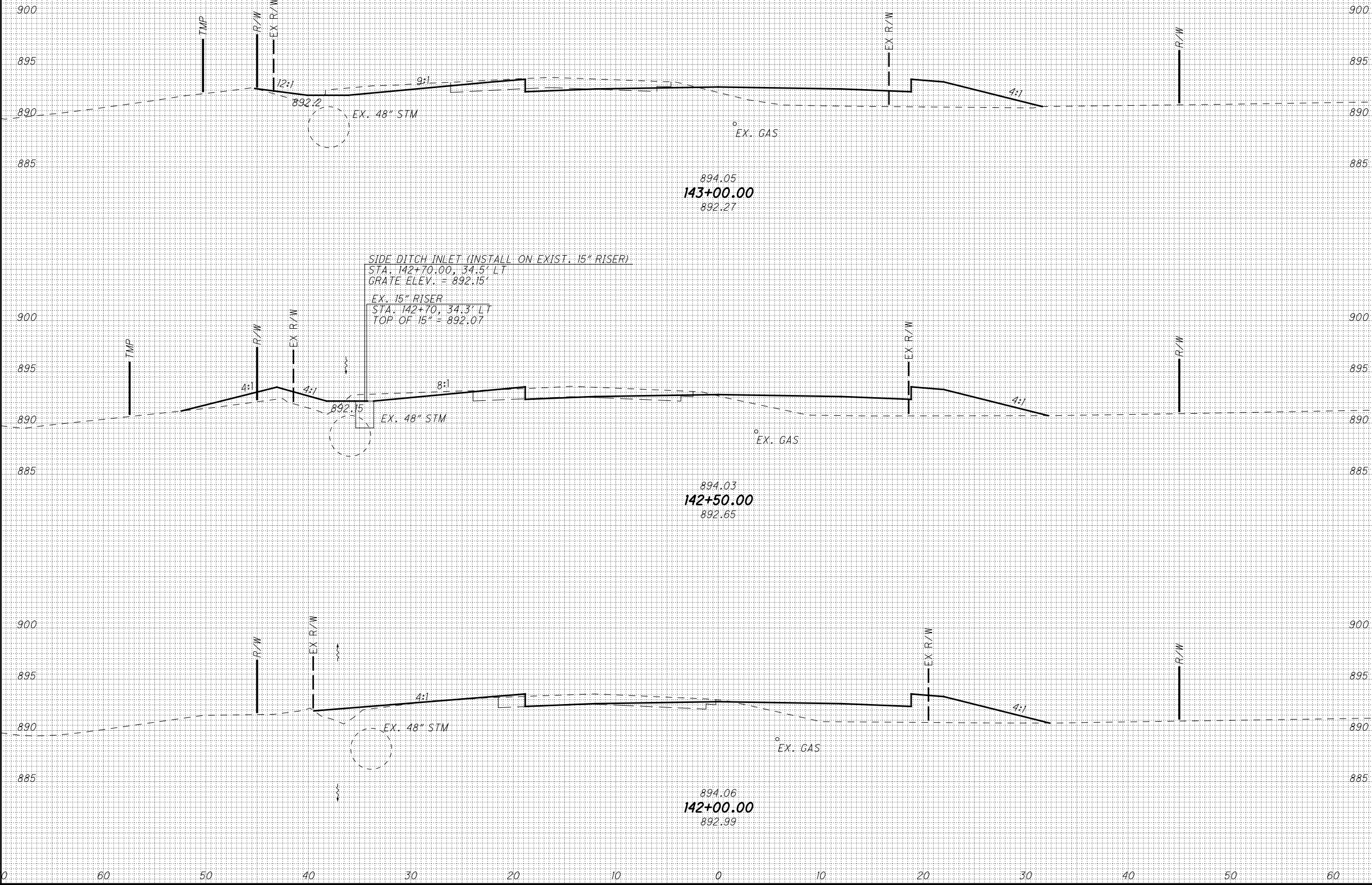
LIC-THORNWOOD

172
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:23AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END CUT	AREA FILL	VOLUME	
		CUT	FILL

CALCULATED	MMB		JEL
	CHECKED		

CROSS SECTIONS - THORNWOOD
STA. 142+00.00 TO STA. 143+00.00

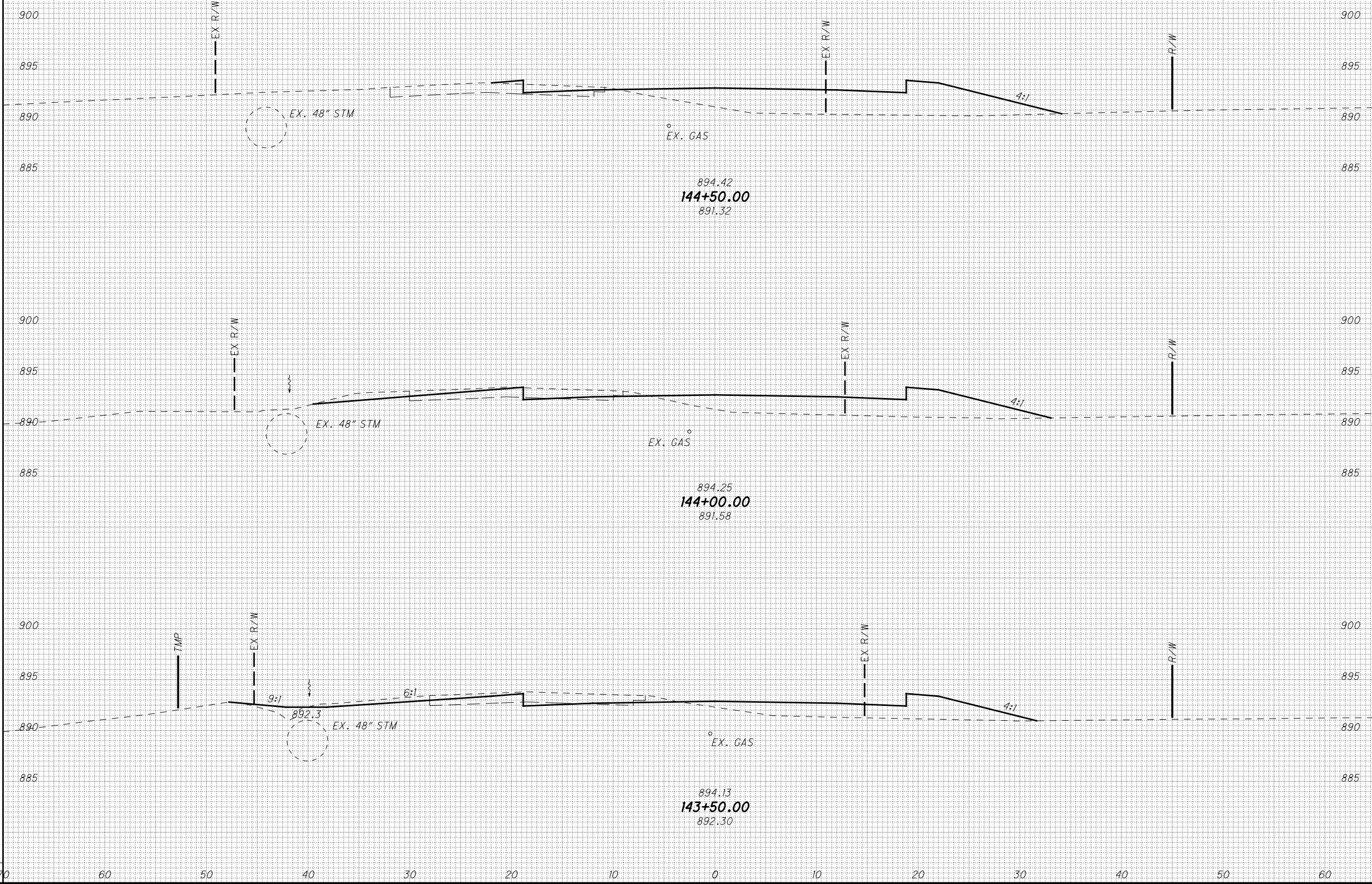
LIC-THORNWOOD

173
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:23AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 143+50.00 TO STA. 144+50.00

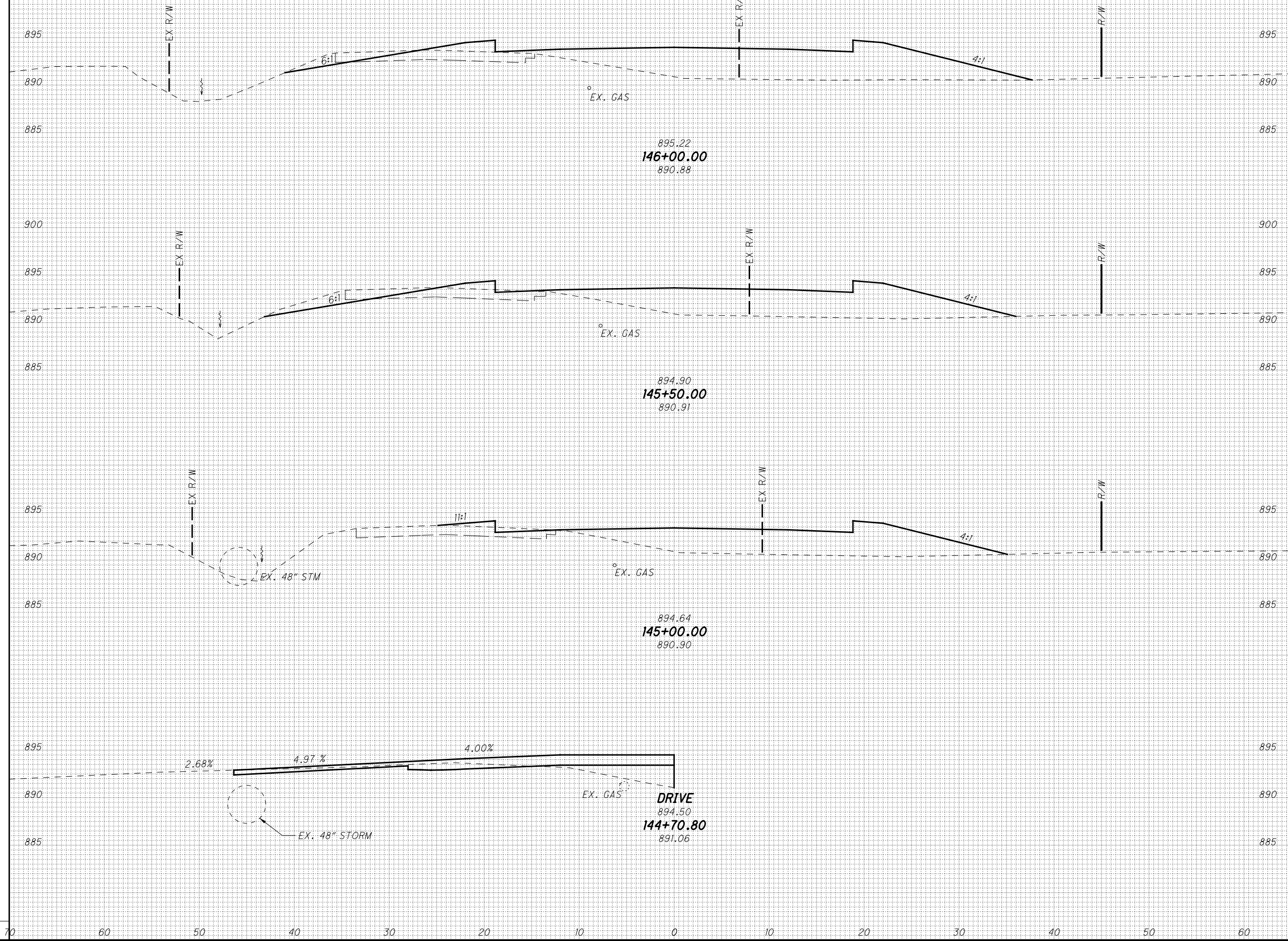
LIC-THORNWOOD

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:23AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 144+70.80 TO STA. 146+00.00

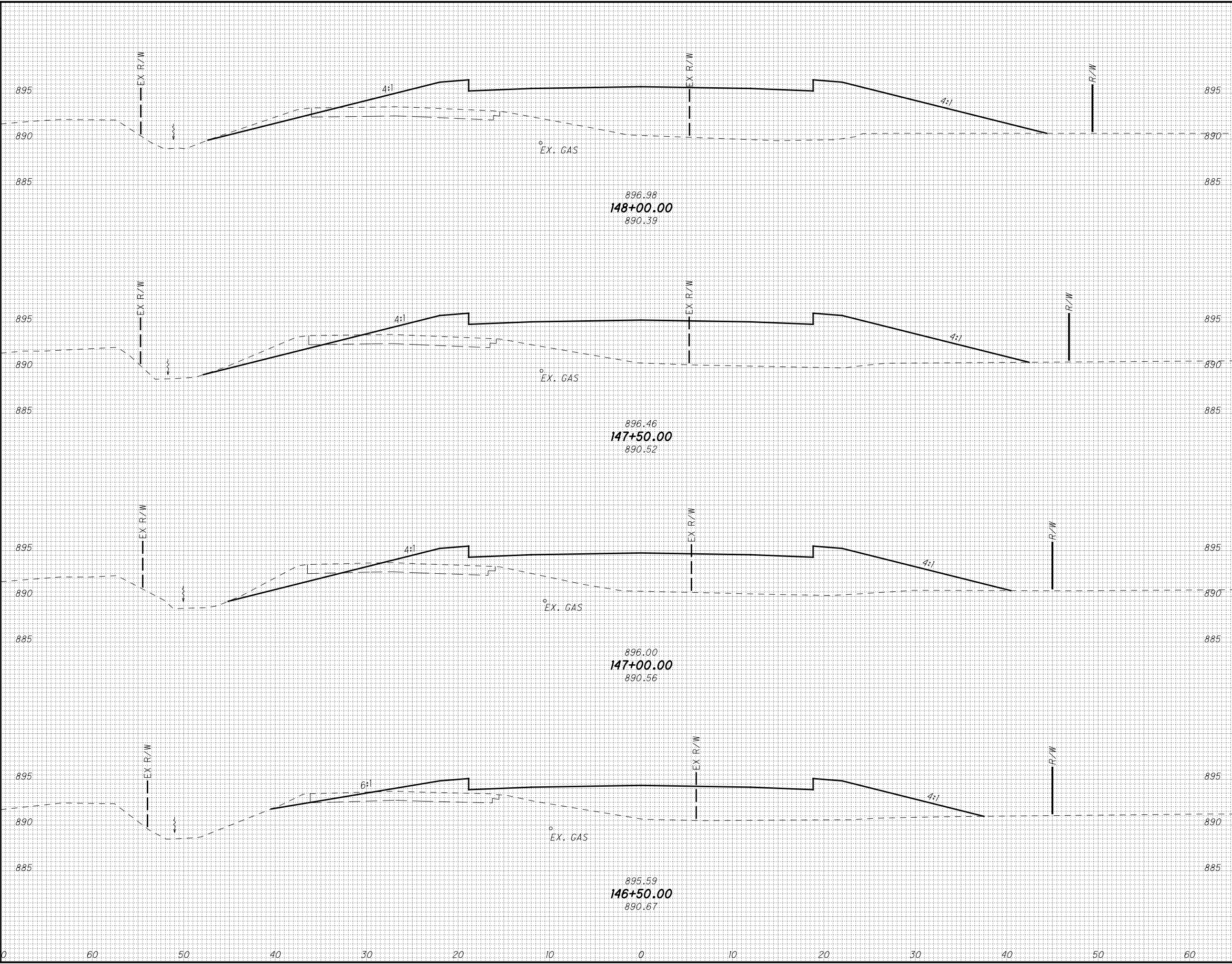
LIC-THORNWOOD

175
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:23AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 146+50.00 TO STA. 148+00.00

LIC-THORNWOOD

176
288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:24AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

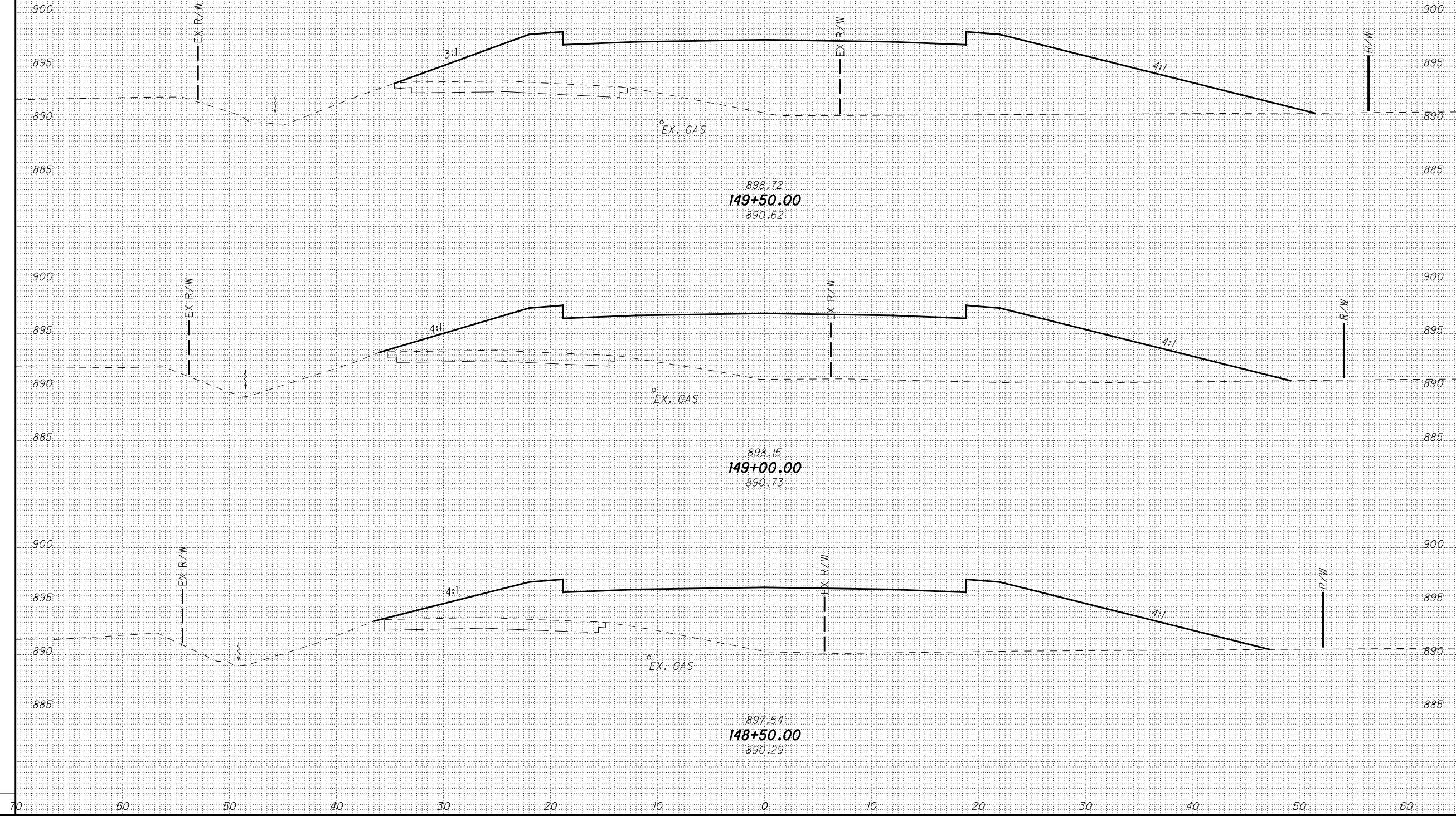
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 148+50.00 TO STA. 149+50.00

LIC-THORNWOOD

177
288

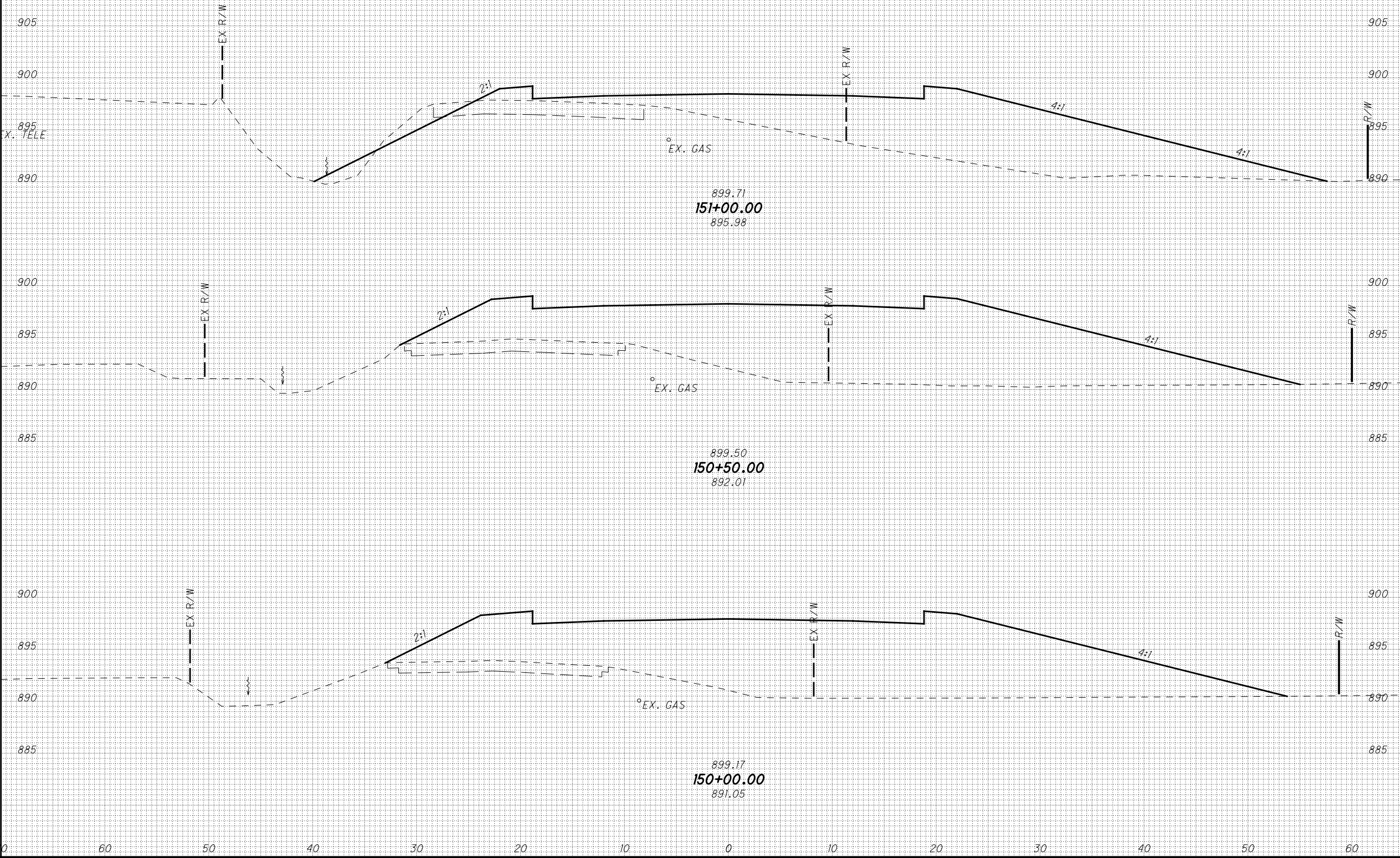


IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:24AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

END AREA		VOLUME	
CUT	FILL	CUT	FILL



899.71
151+00.00
 895.98

899.50
150+50.00
 892.01

899.17
150+00.00
 891.05

CROSS SECTIONS - THORNWOOD
 STA. 150+00.00 TO STA. 151+00.00

LIC-THORNWOOD

178
 288

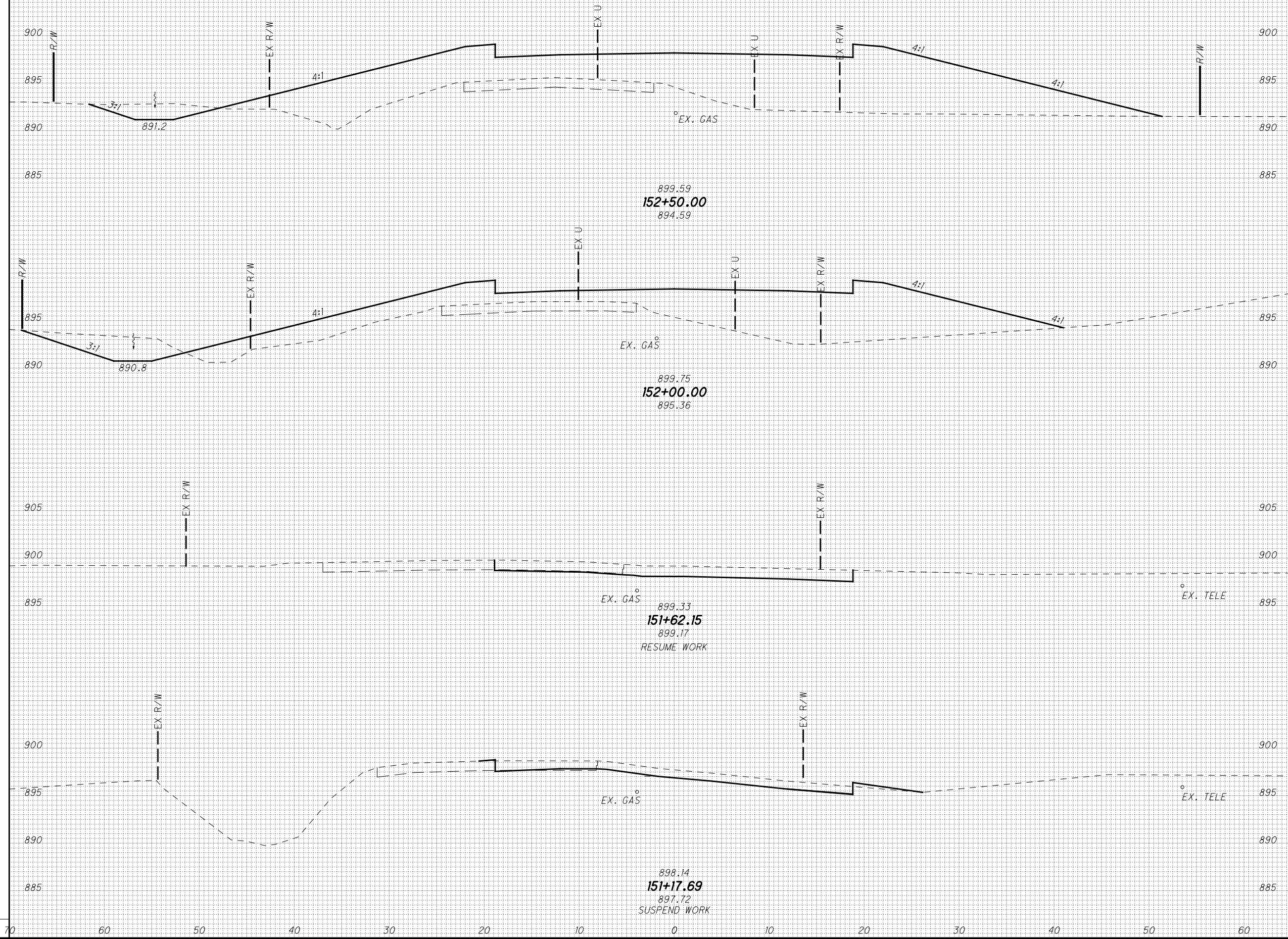
CALCULATED
 MMB
 CHECKED
 JEL

P:\PWP\dms08268\78116\X5001.dgn 28-JUL-2010 9:24AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 151+17.69 TO STA. 152+50.00

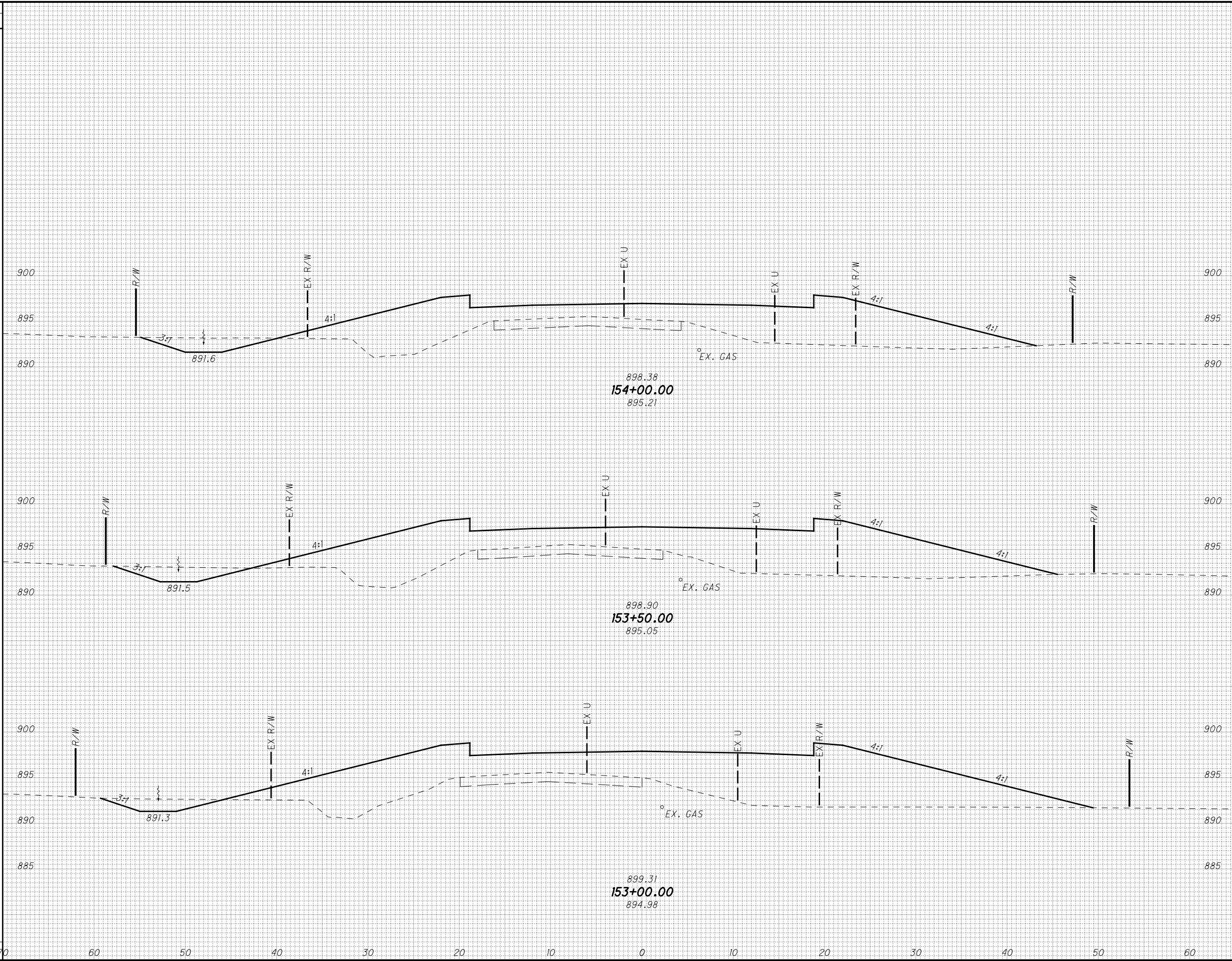
LIC-THORNWOOD

179
288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:24AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 153+00.00 TO STA. 154+00.00

LIC-THORNWOOD

180
288

P:\PWP\dms08268\78116\S001.dgn 28-JUL-2010 9:24AM rgreenland

SEEDING
END WIDTH SQ. YDS.

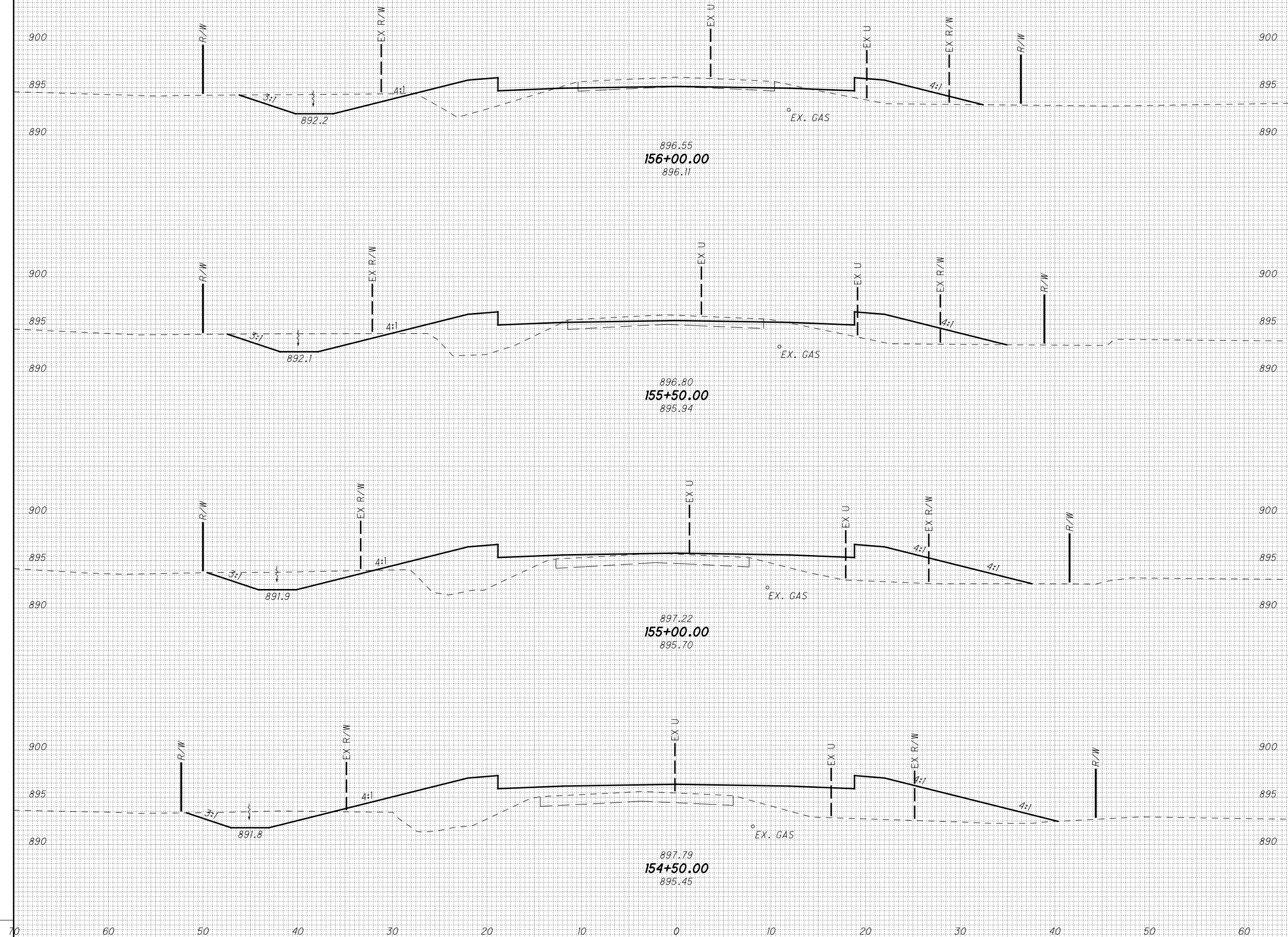
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 154+50.00 TO STA. 156+00.00

LIC-THORNWOOD

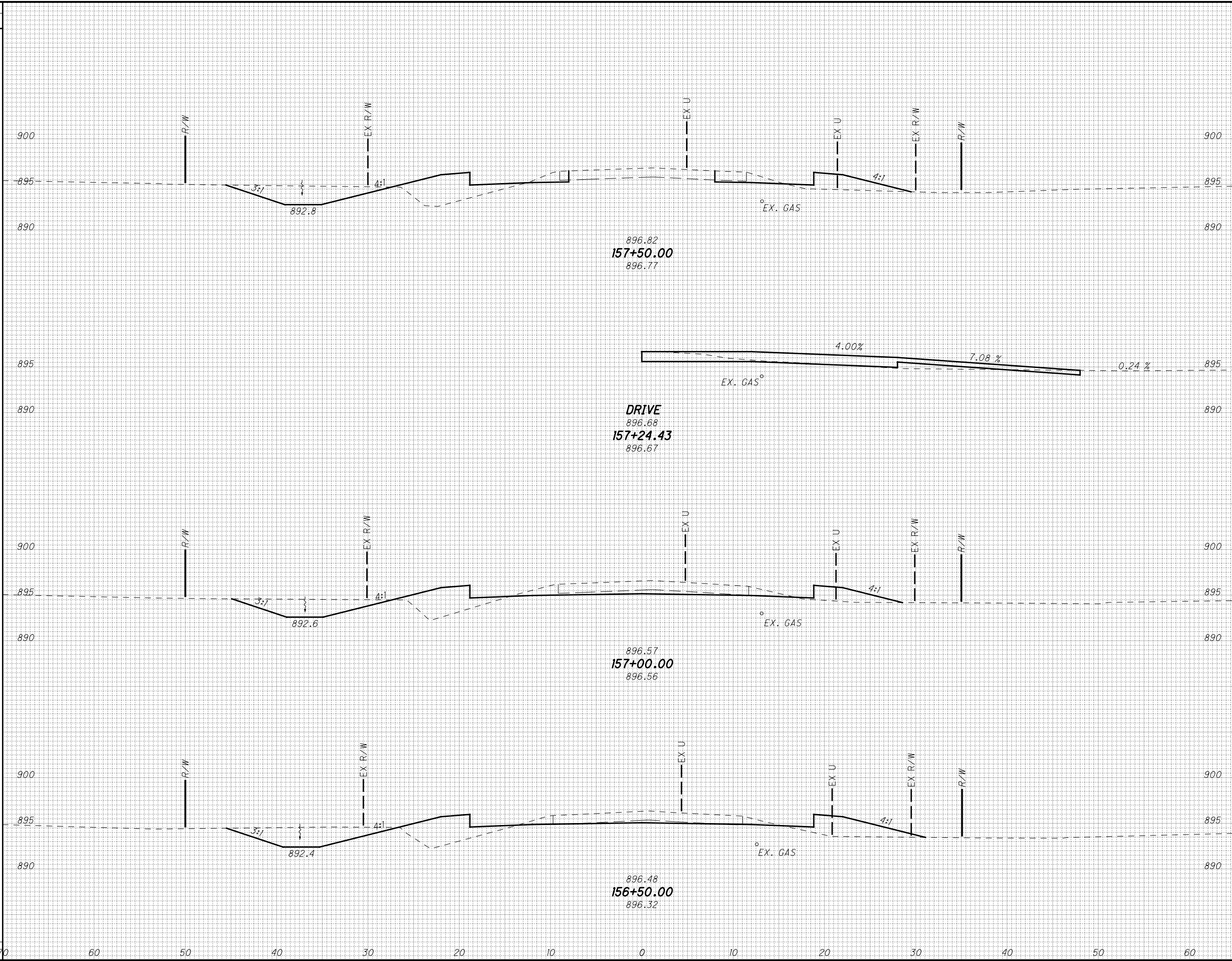
181
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:24AM rgreenland

SEEDING

END WIDTH	SQ. YDS.		
		CUT	FILL
70			
60			
50			
40			
30			
20			
10			
0			
10			
20			
30			
40			
50			
60			



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
STA. 156+50.00 TO STA. 157+50.00

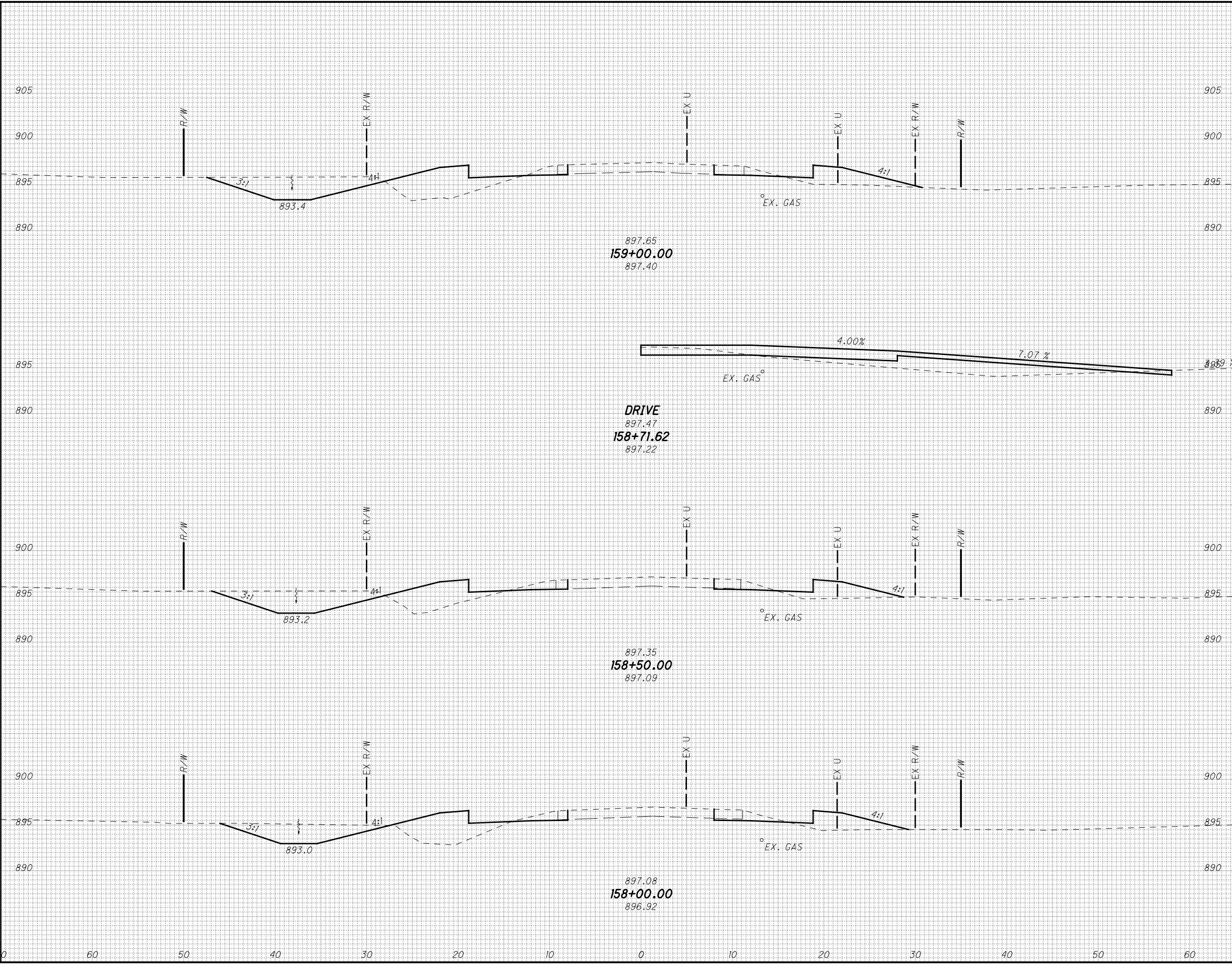
LIC-THORNWOOD

182
288

IP_PWP:dms08268\78116\X5001.dgn 28-JUL-2010 9:25AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	
70	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 158+00.00 TO STA. 159+00.00

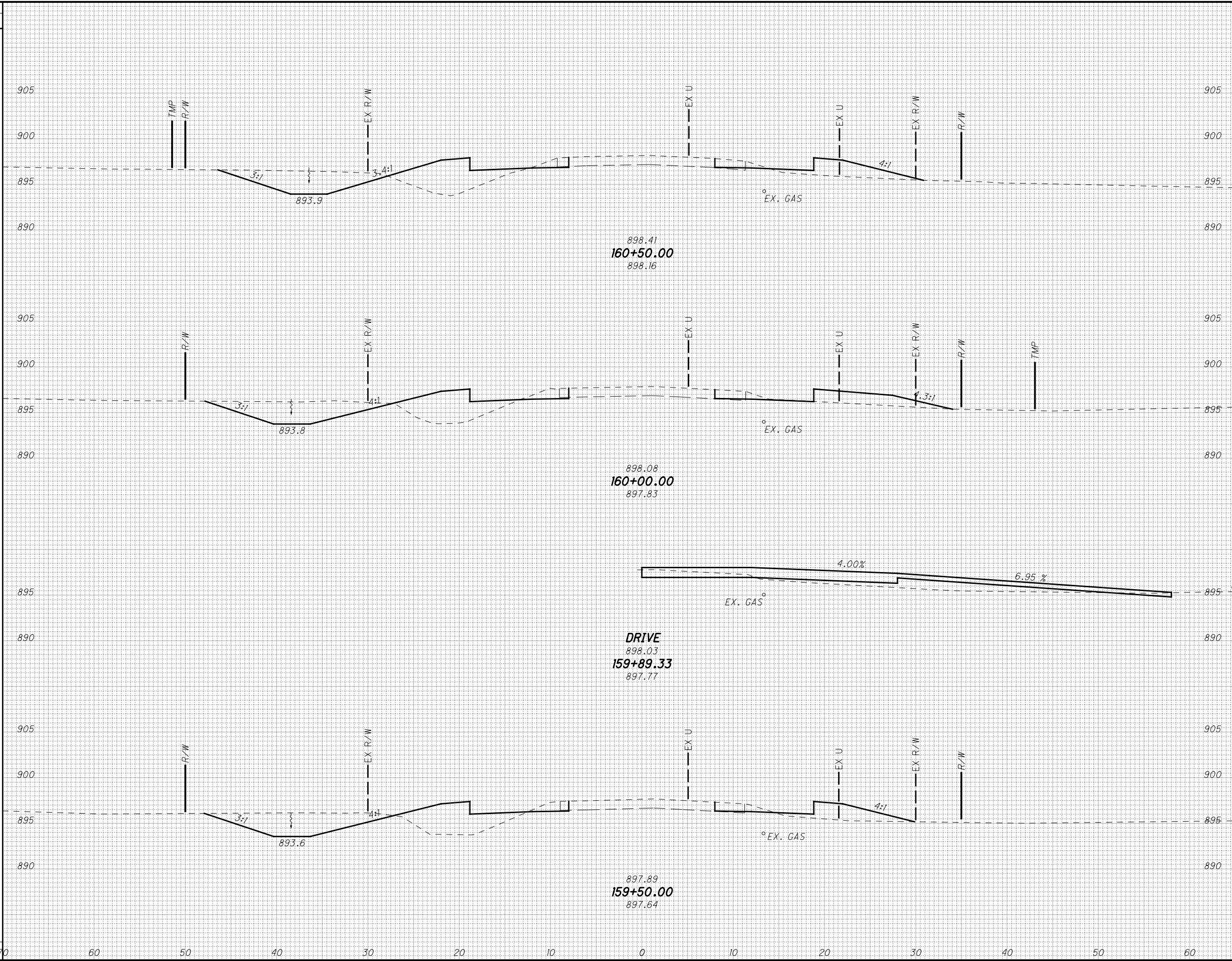
LIC-THORNWOOD

183
288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:25AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

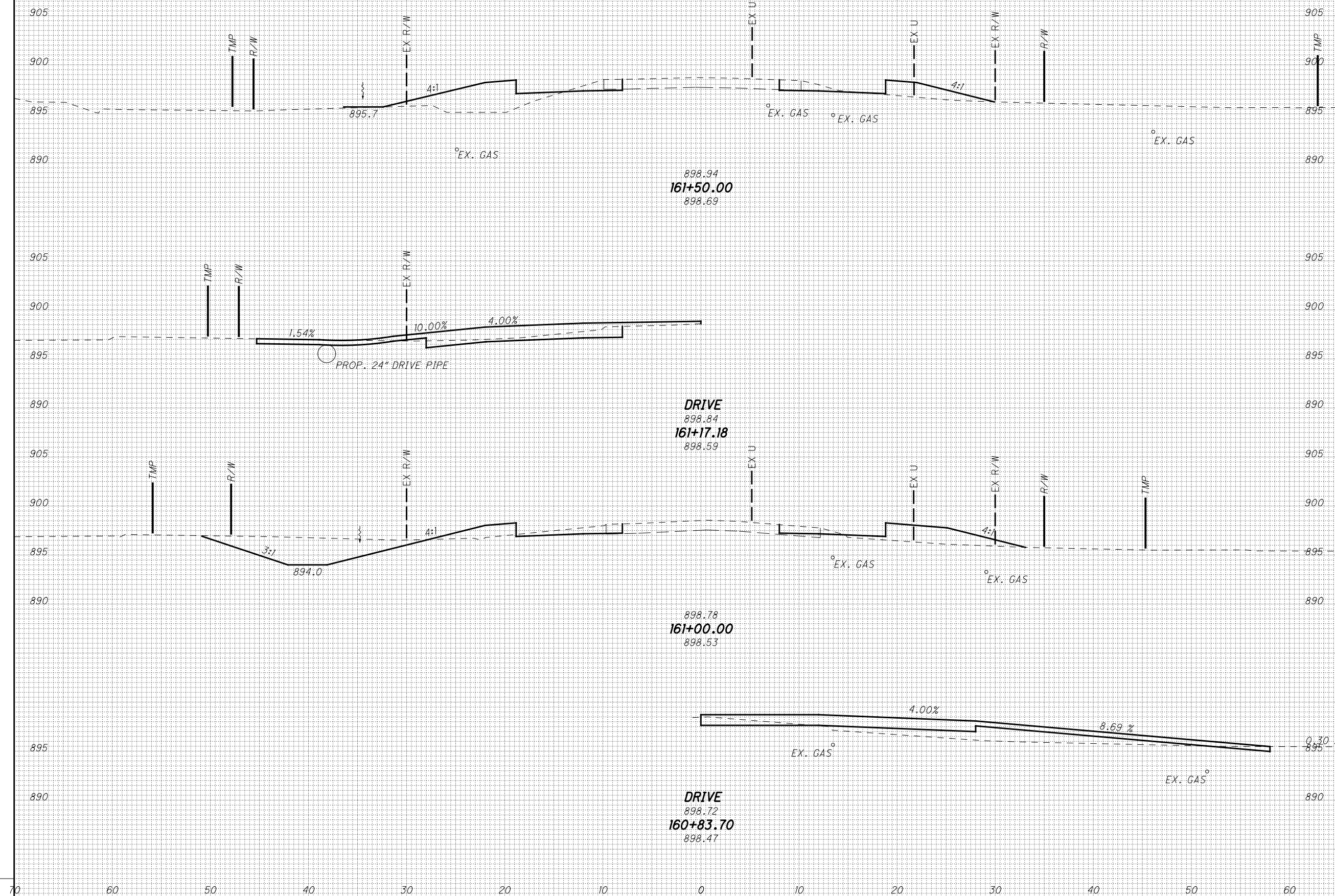
CROSS SECTIONS - THORNWOOD
STA. 159+50.00 TO STA. 160+50.00

LIC-THORNWOOD

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:25AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL



CROSS SECTIONS - THORNWOOD
STA. 160+83.70 TO STA. 161+50.00

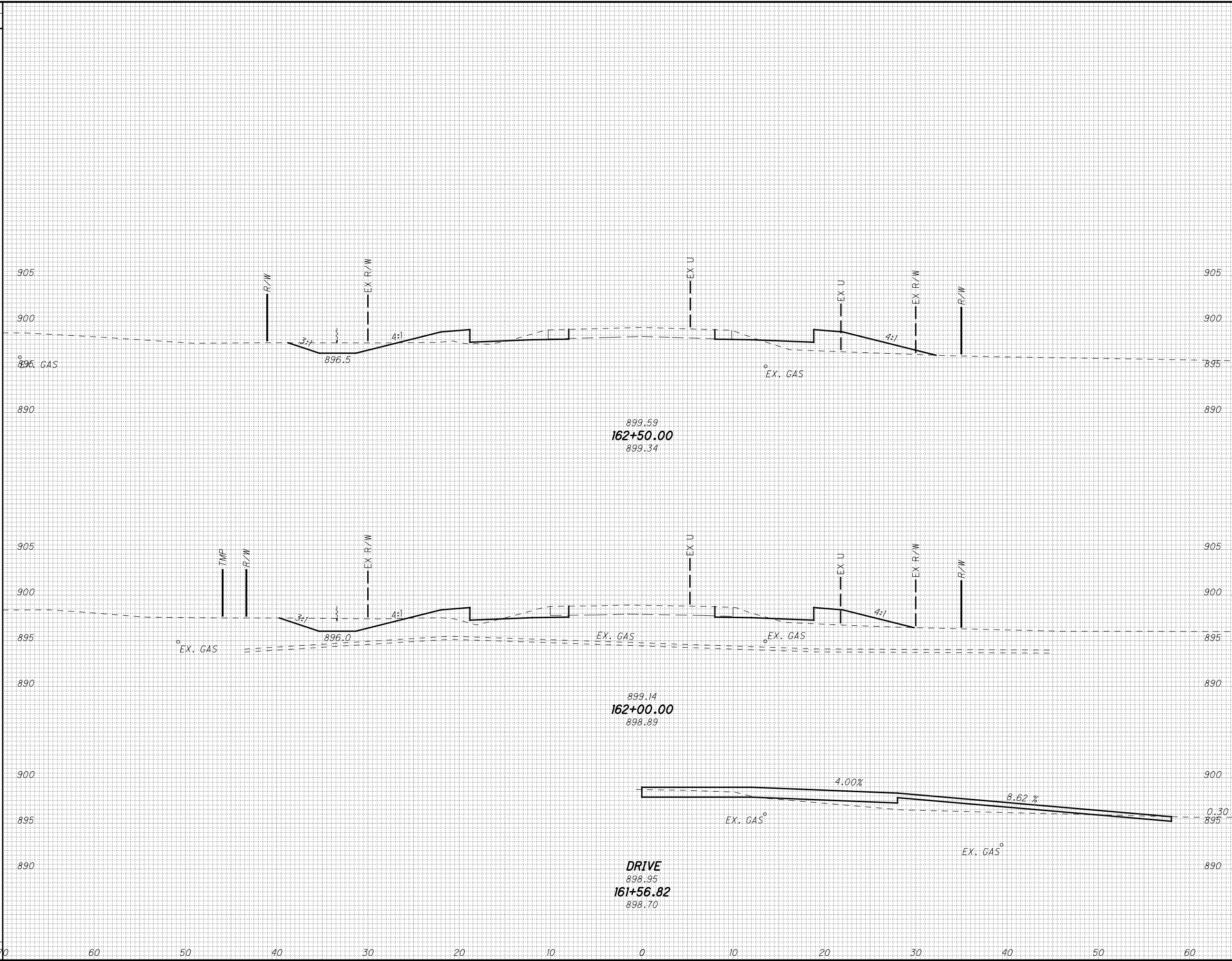
LIC-THORNWOOD

185
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:25AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 161+56.82 TO STA. 162+50.00

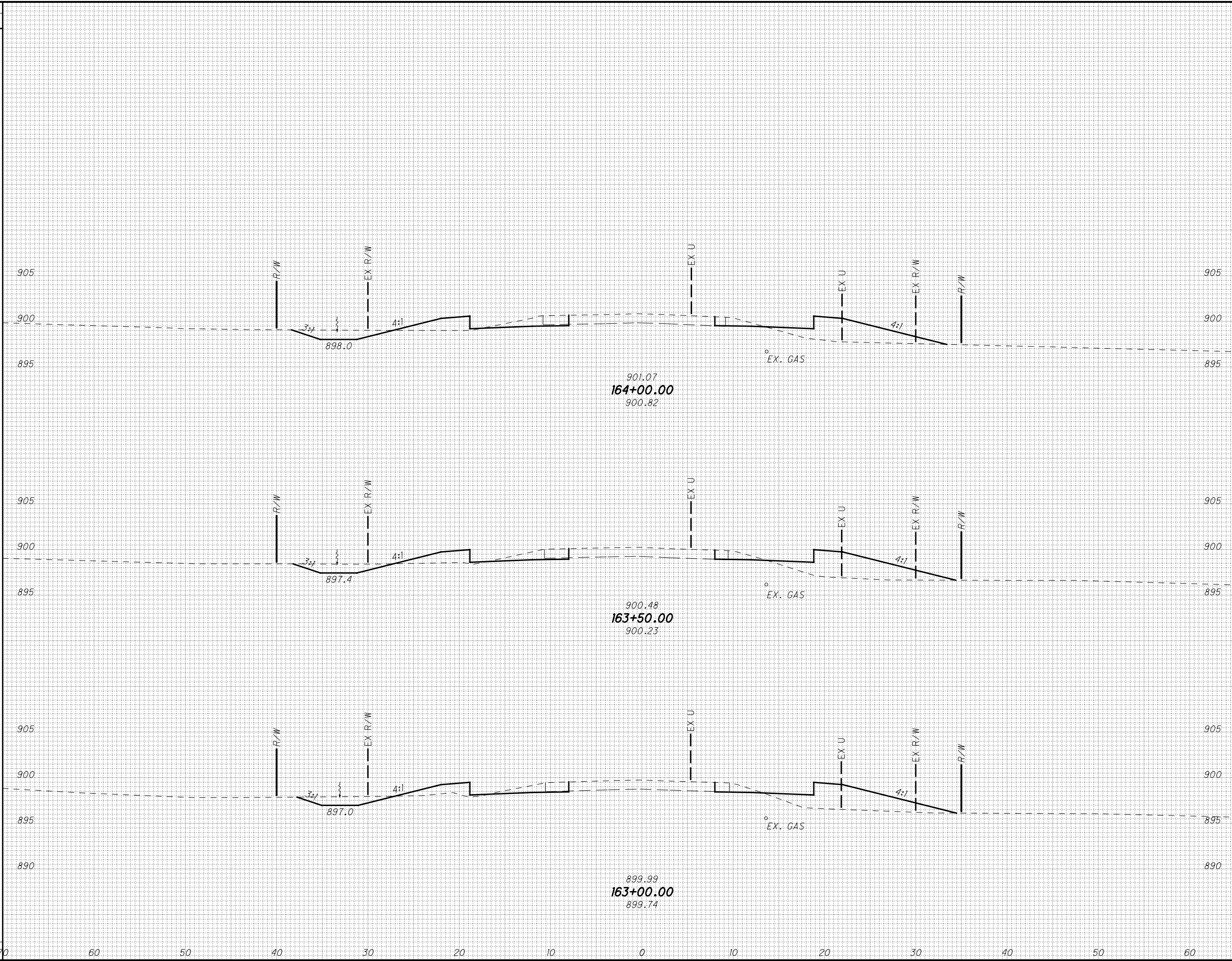
LIC-THORNWOOD

186
288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:25AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 163+00.00 TO STA. 164+00.00

LIC-THORNWOOD

187
288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:25AM rgreenland

SEEDING

END WIDTH	SO. YDS.

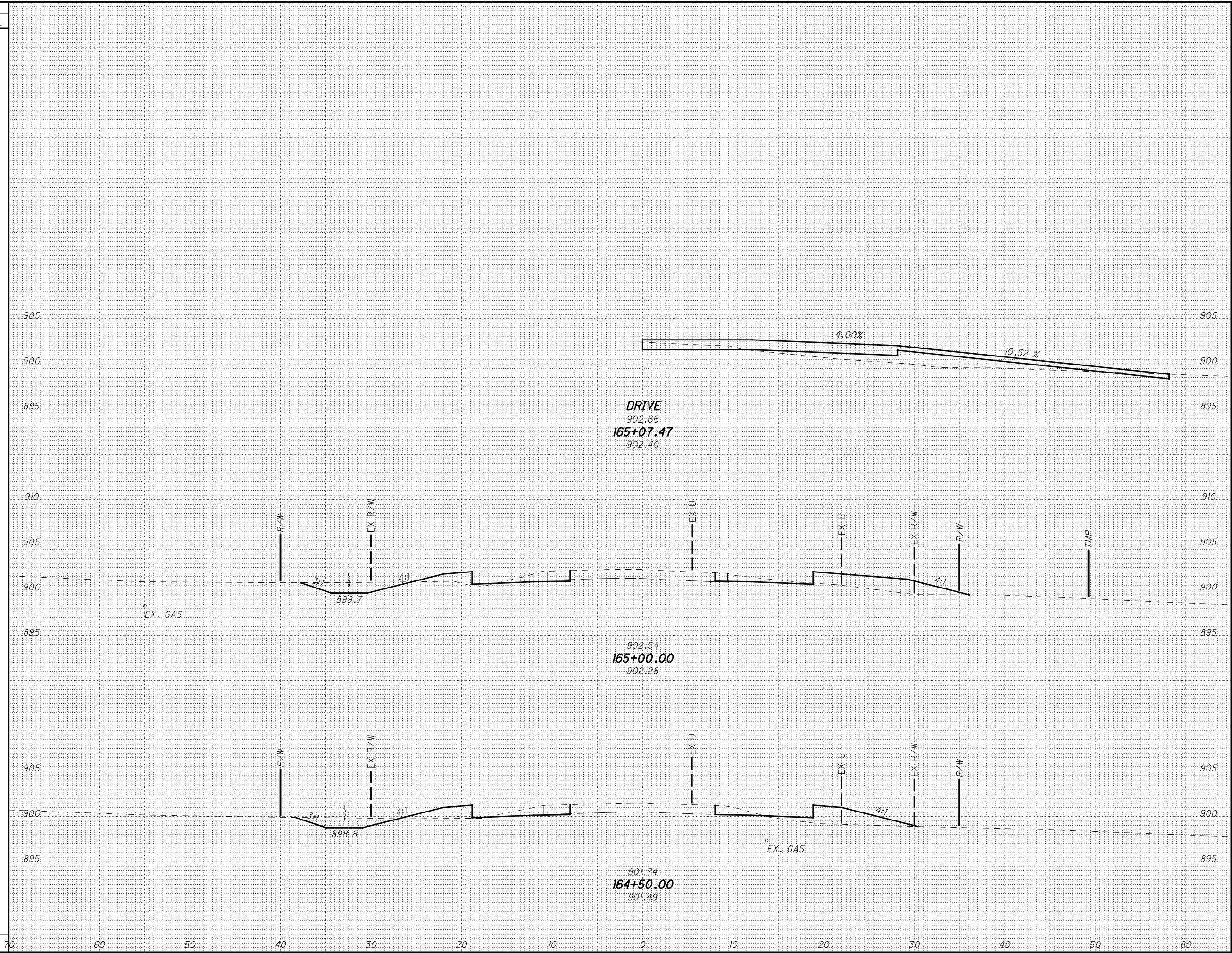
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 164+50.00 TO STA. 165+07.47

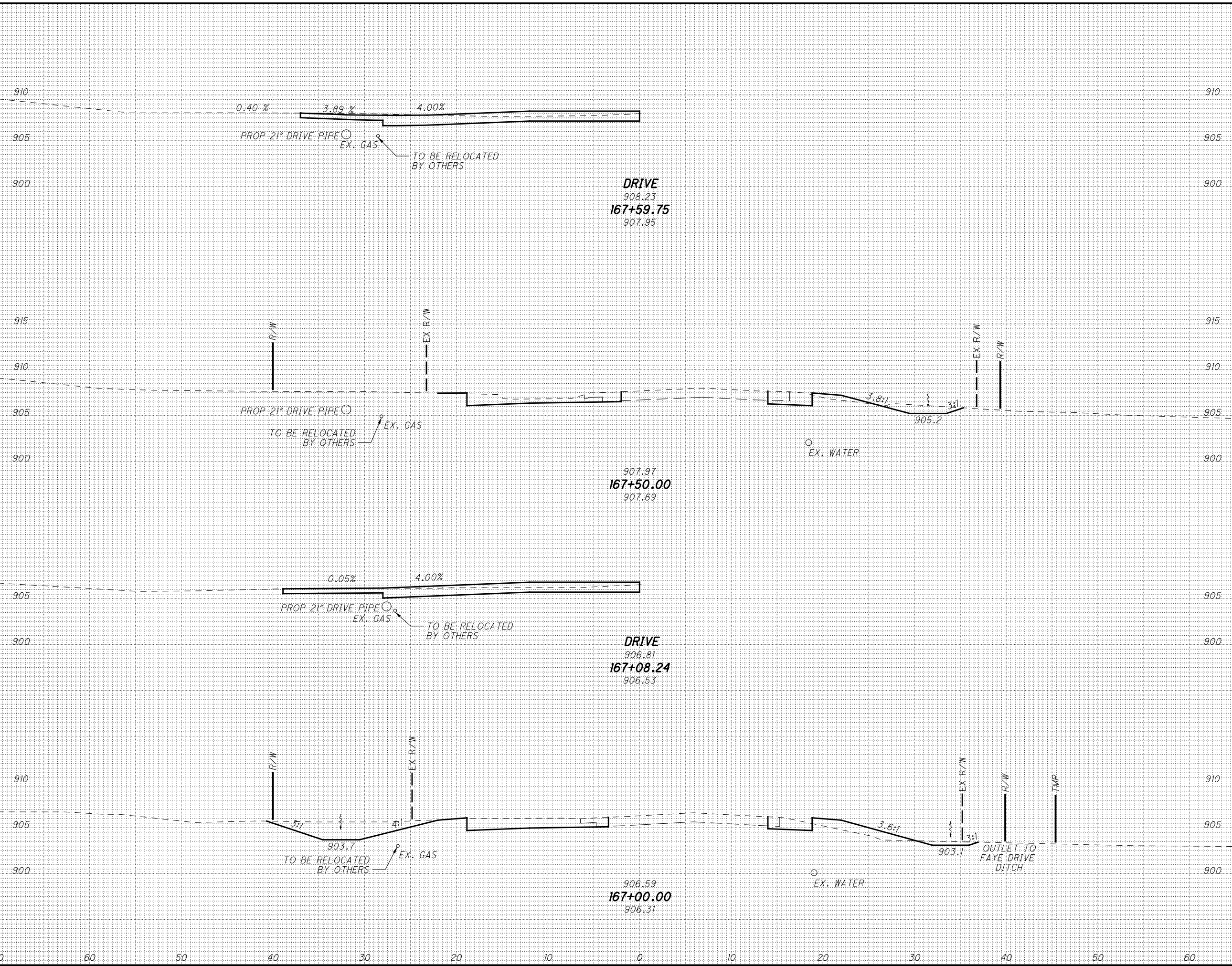
LIC-THORNWOOD

188
288



P:\PWP\dms08268\78116\X5001.dgn 28-JUL-2010 9:26AM rgreenland

SEEDING	
END WIDTH	SQ. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

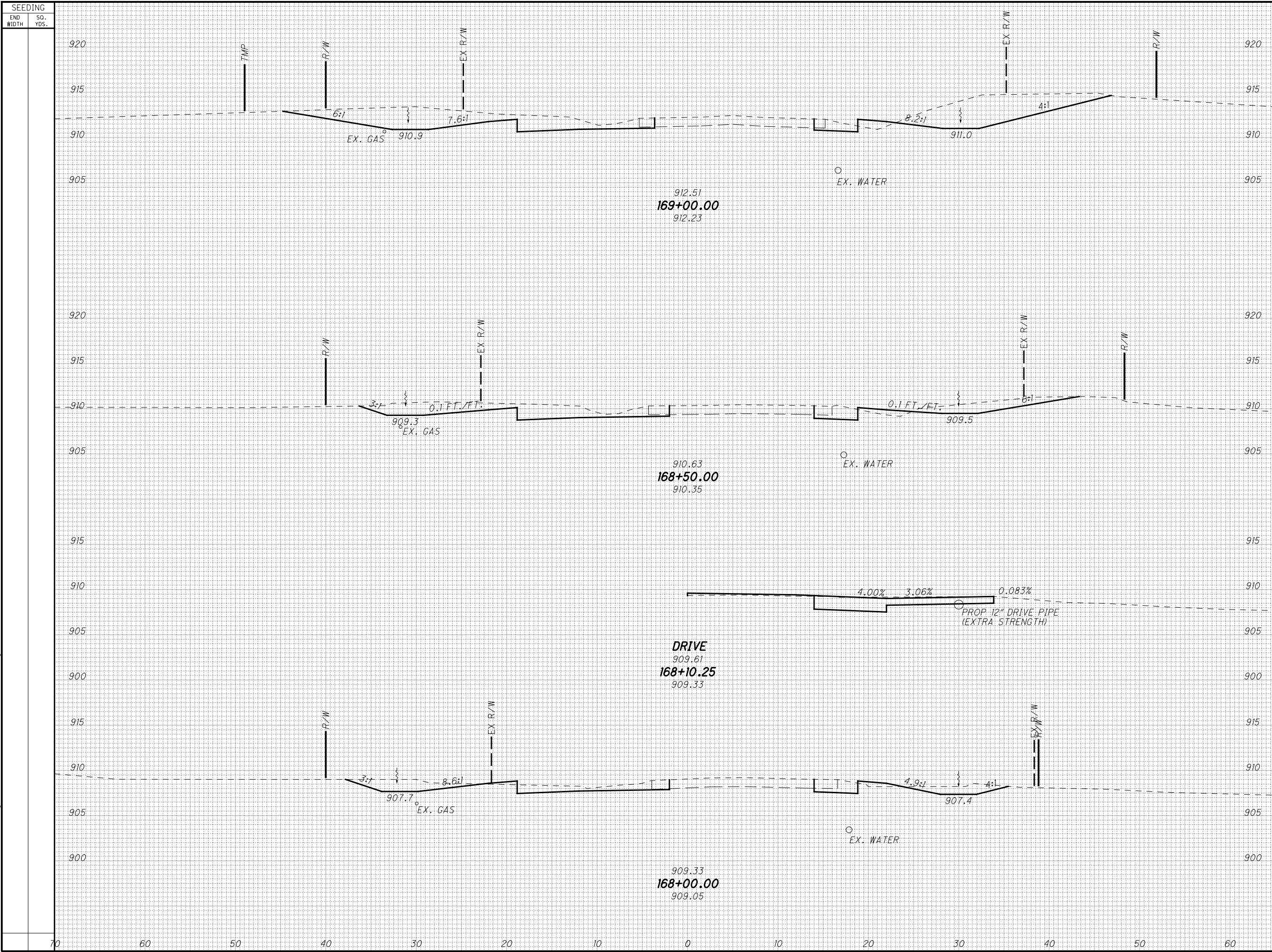
CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 167+00.00 TO STA. 167+59.75

LIC-THORNWOOD

190
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:26AM rgreenland



SEEDING		END AREA		VOLUME	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL

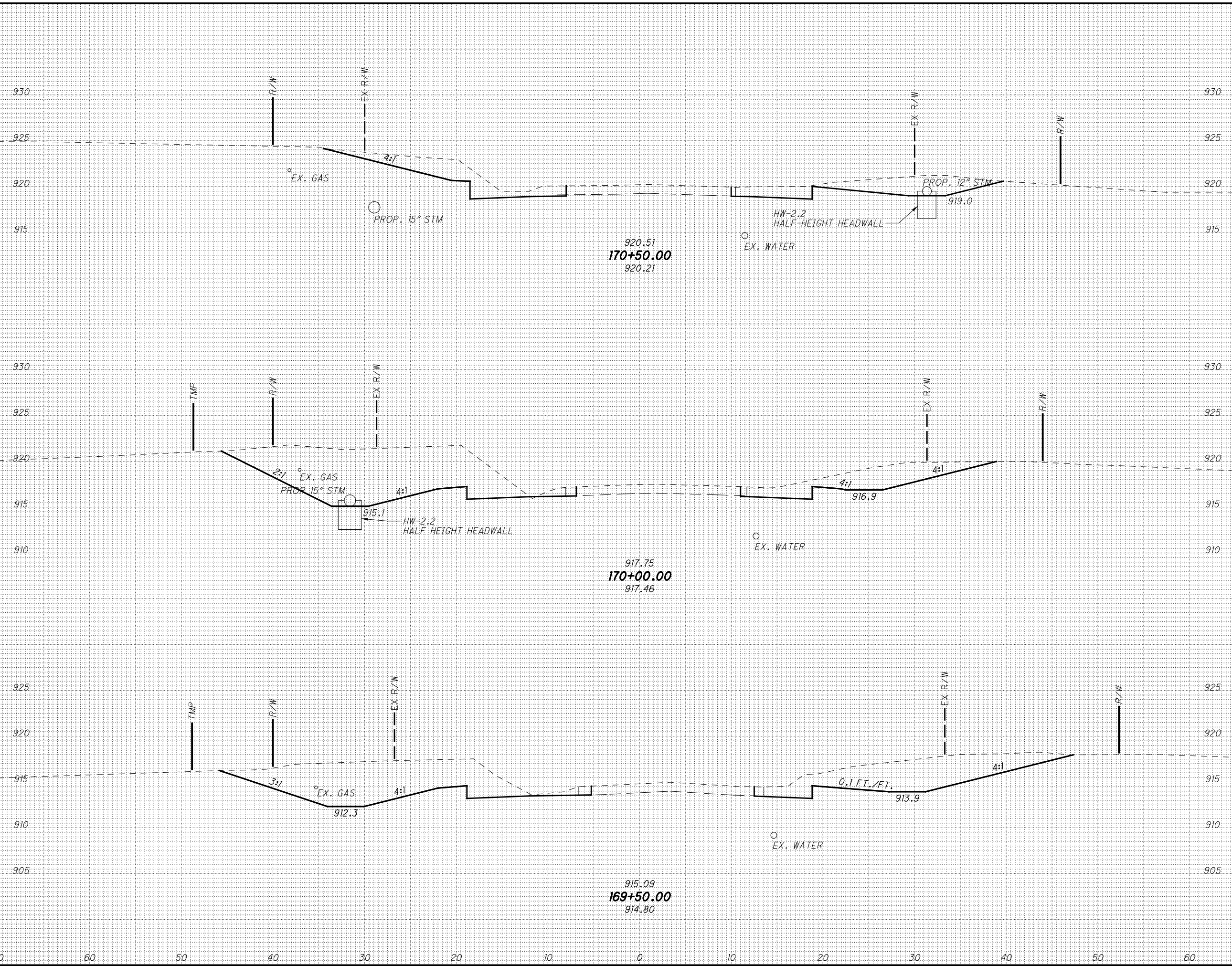
CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 168+00.00 TO STA. 169+00.00

LIC-THORNWOOD

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:26AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
STA. 169+50.00 TO STA. 170+50.00

LIC-THORNWOOD

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:26AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

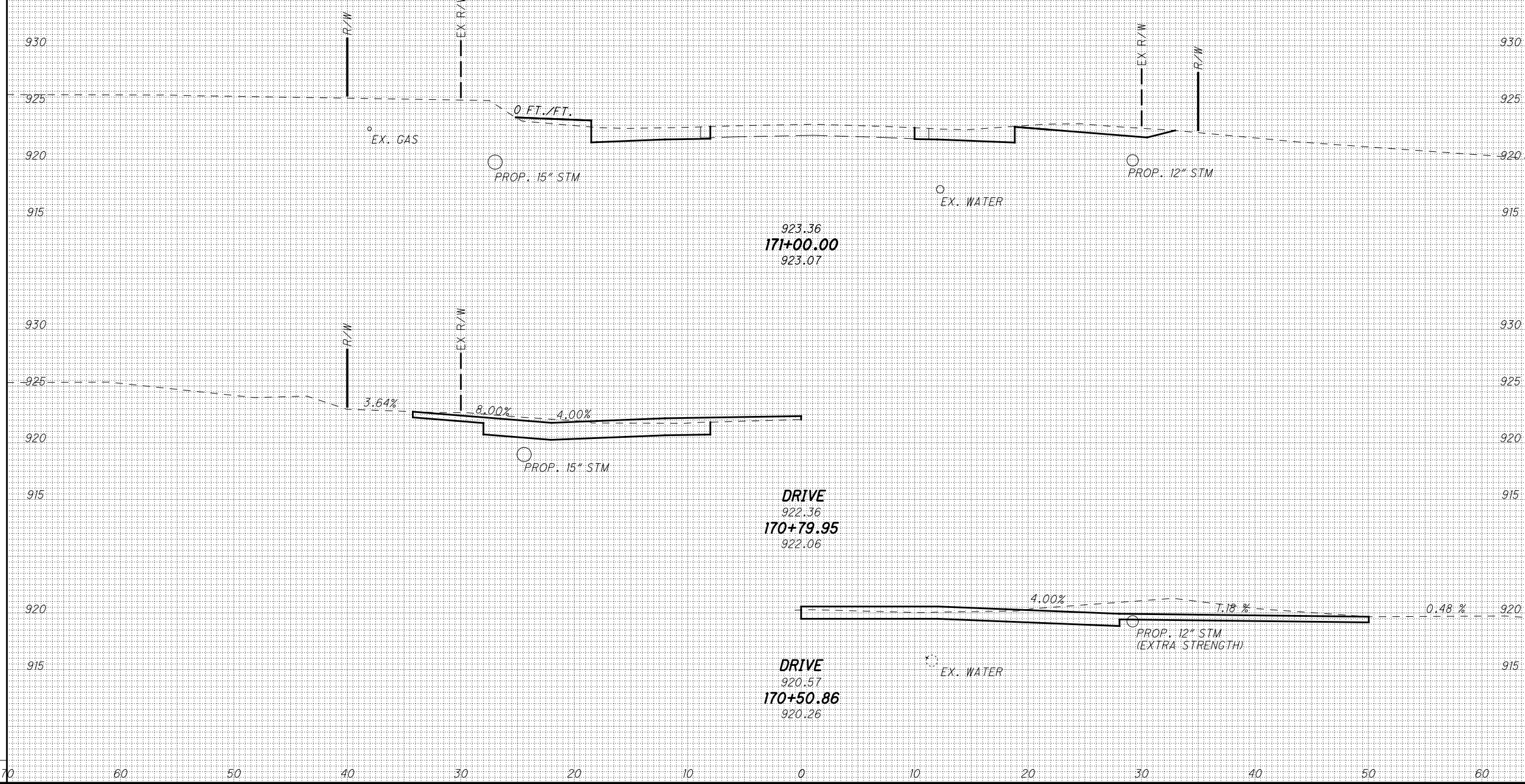
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 170+50.86 TO STA. 171+41.06

LIC-THORNWOOD

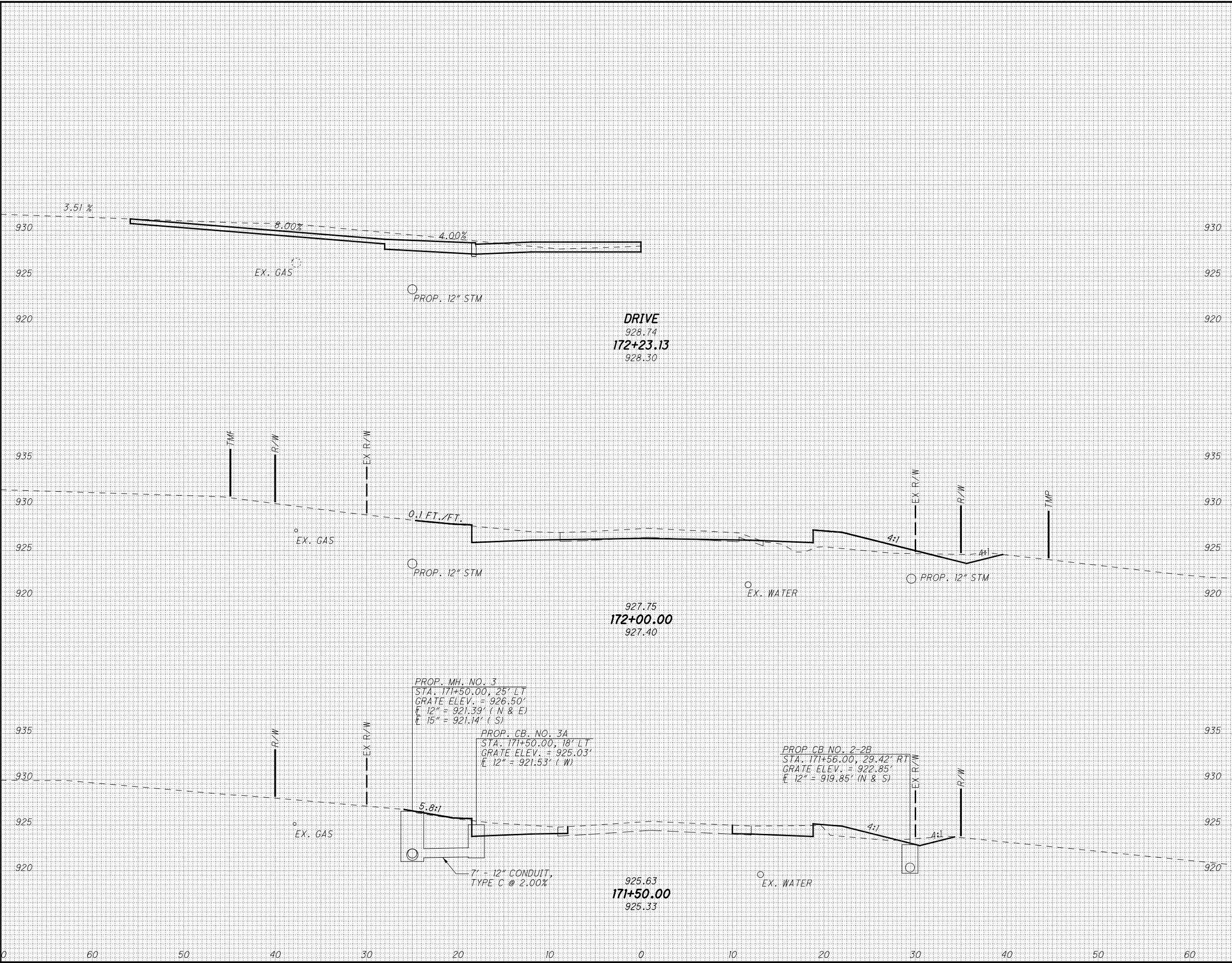
193
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:26AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 171+50.00 TO STA. 172+23.13

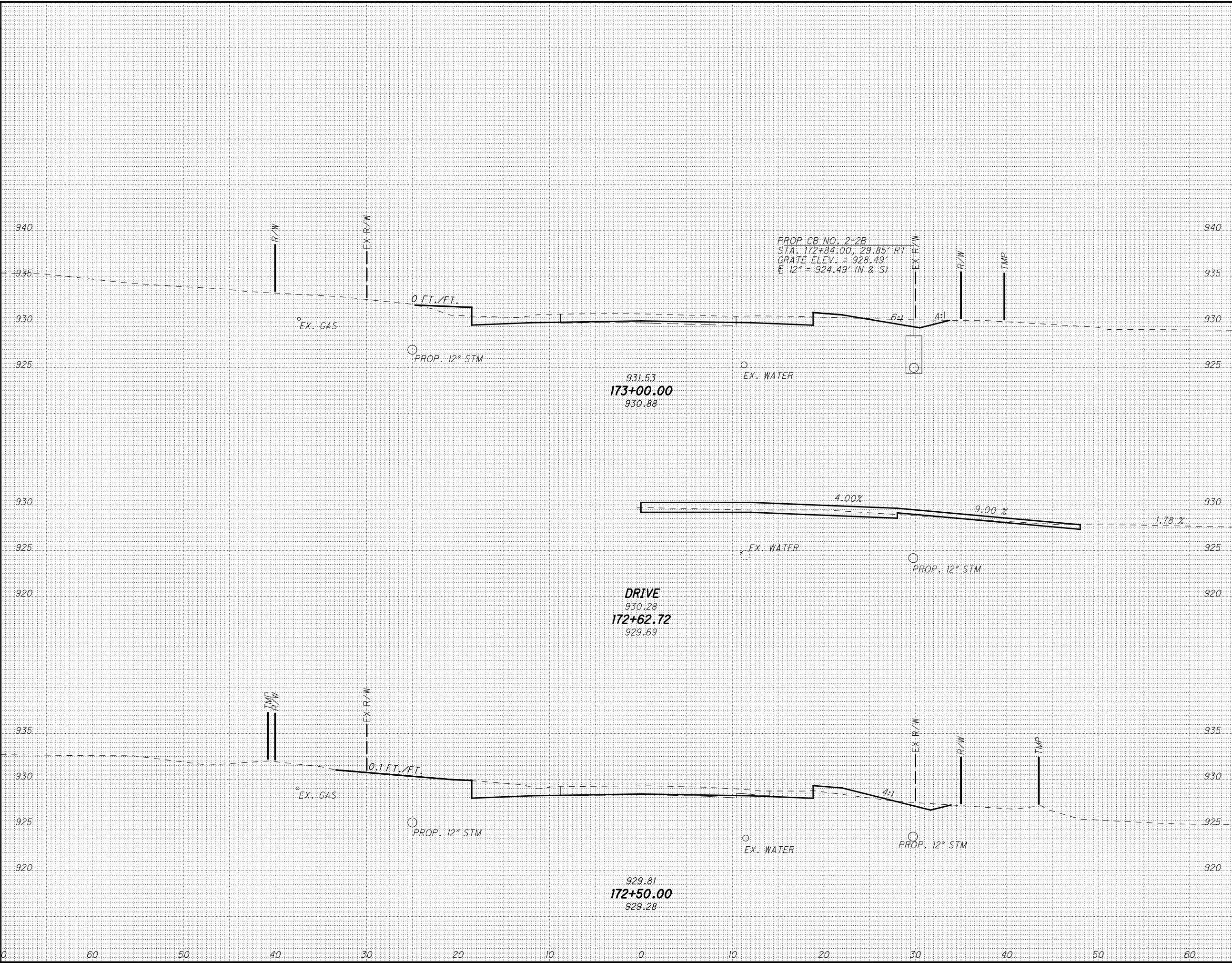
LIC-THORNWOOD

194
288

P:\PWP\dms08268\78116\X5001.dgn 28-JUL-2010 9:27AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



PROP. CB. NO. 2-2B
 STA. 172+84.00, 29.85' RT
 GRATE ELEV. = 928.49'
 12" = 924.49' (N & S)

931.53
173+00.00
 930.88

DRIVE
 930.28
172+62.72
 929.69

929.81
172+50.00
 929.28

END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
 STA. 172+50.00 TO STA. 173+00.00

LIC-THORNWOOD

195
 288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:27AM rgreenland

SEEDING
END WIDTH SQ. YDS.

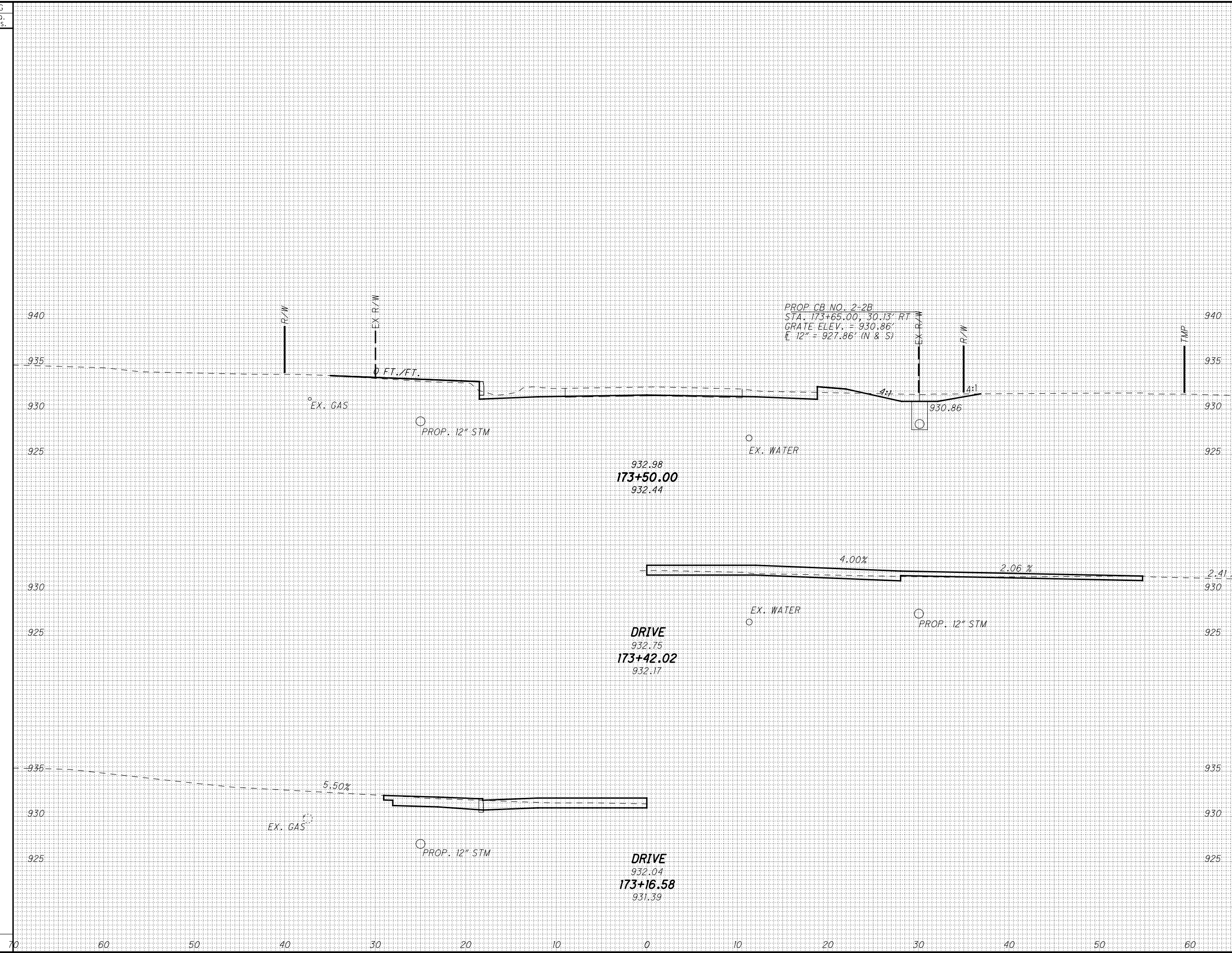
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 173+16.58 TO STA. 173+50.00

LIC-THORNWOOD

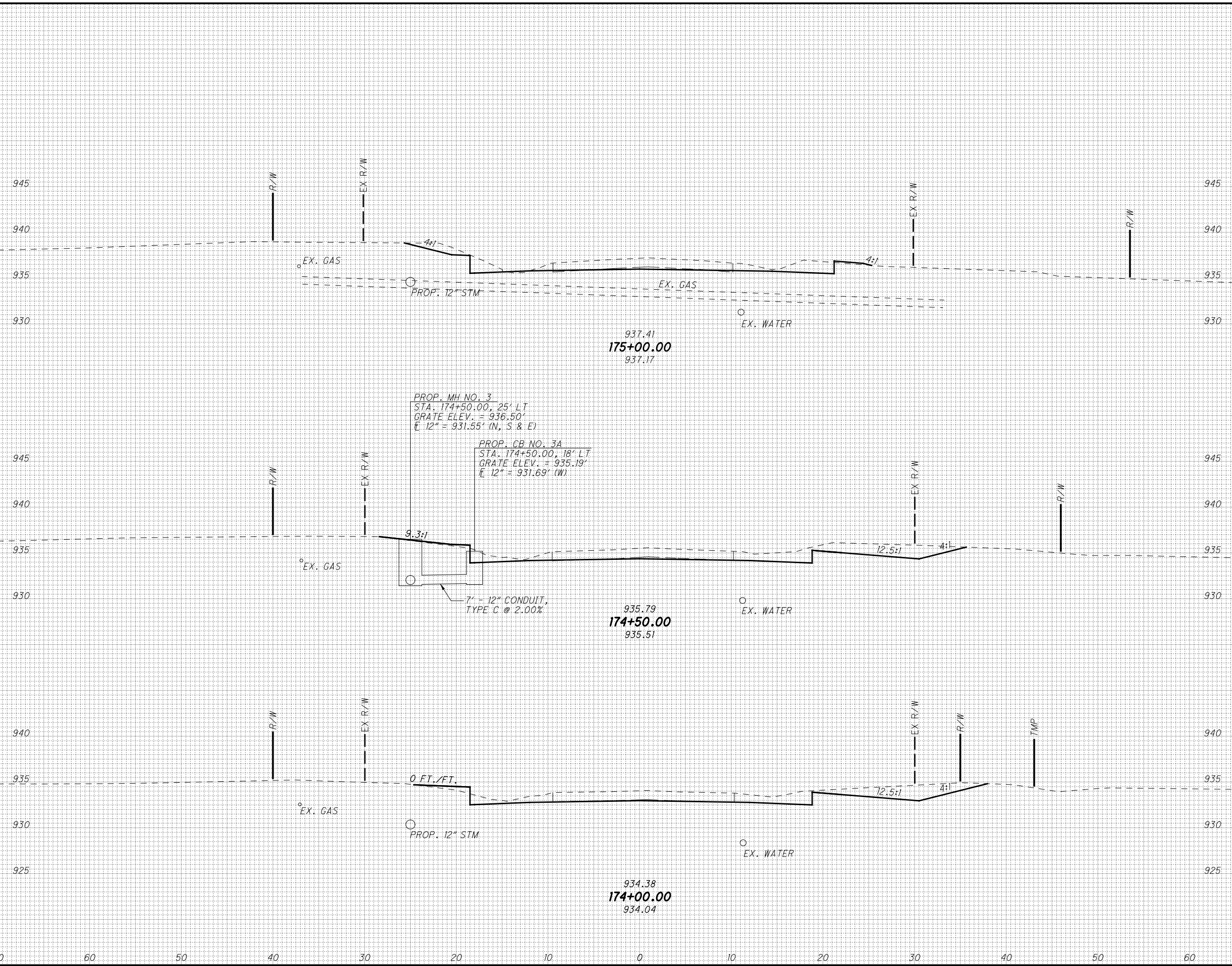
196
288



END AREA		VOLUME	
CUT	FILL	CUT	FILL

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:27AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 174+00.00 TO STA. 175+00.00

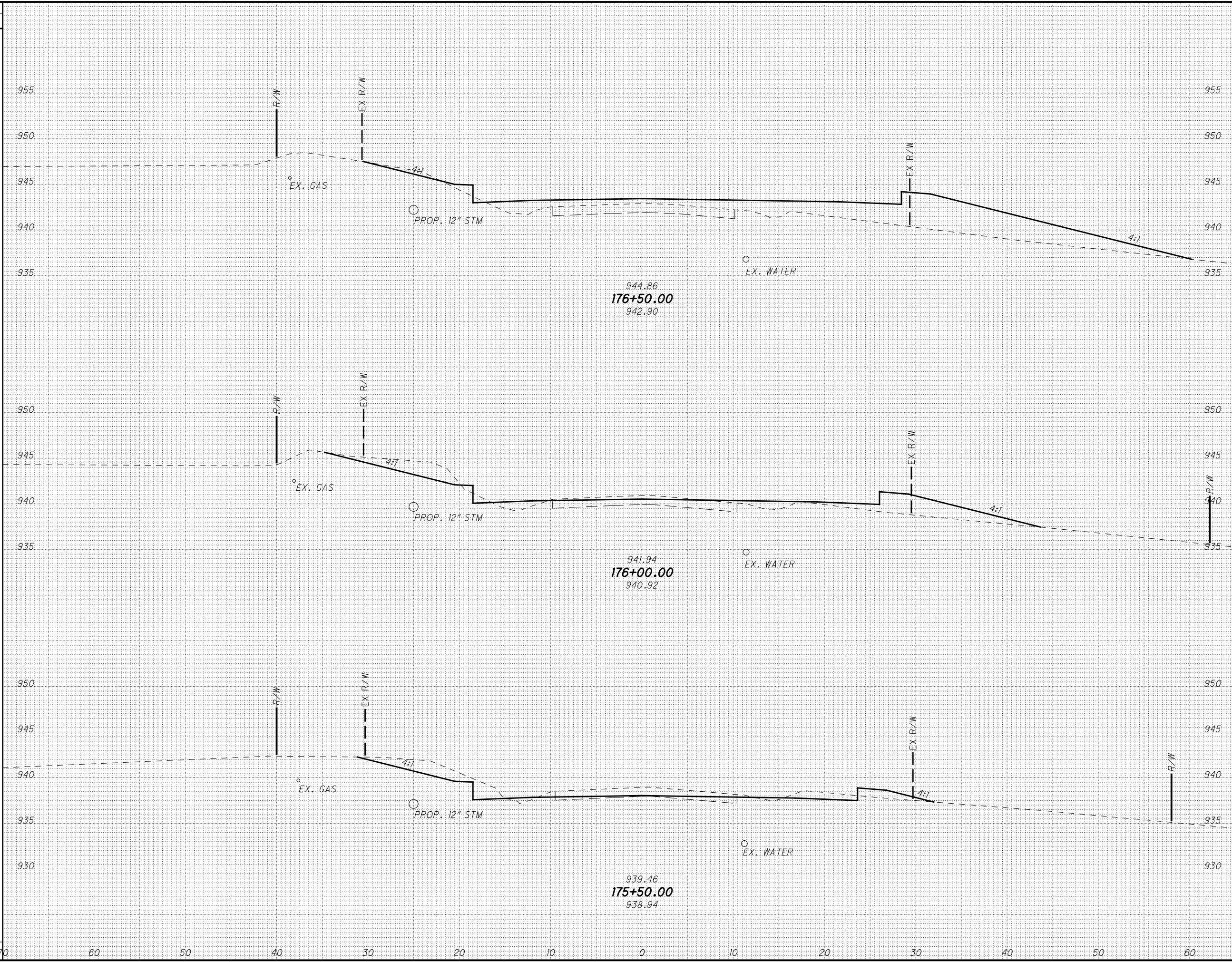
LIC-THORNWOOD

197
288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:27AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 175+50.00 TO STA. 176+50.00

LIC-THORNWOOD

198
288

P:\PWP\dms08268\78116XS001.dgn 28-JUL-2010 9:27AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

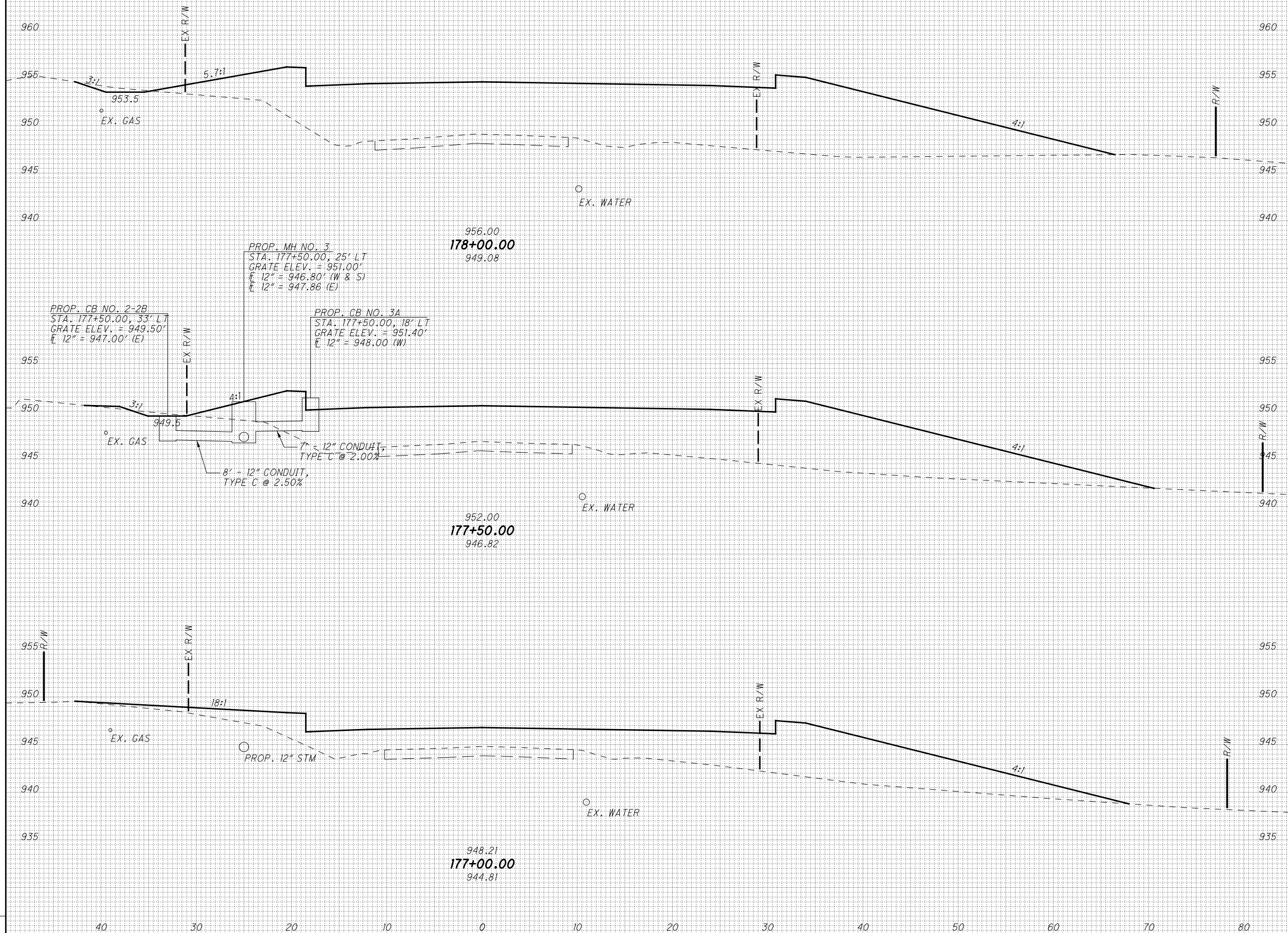
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
STA. 177+00.00 TO STA. 178+00.00

LIC-THORNWOOD

199
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:27AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

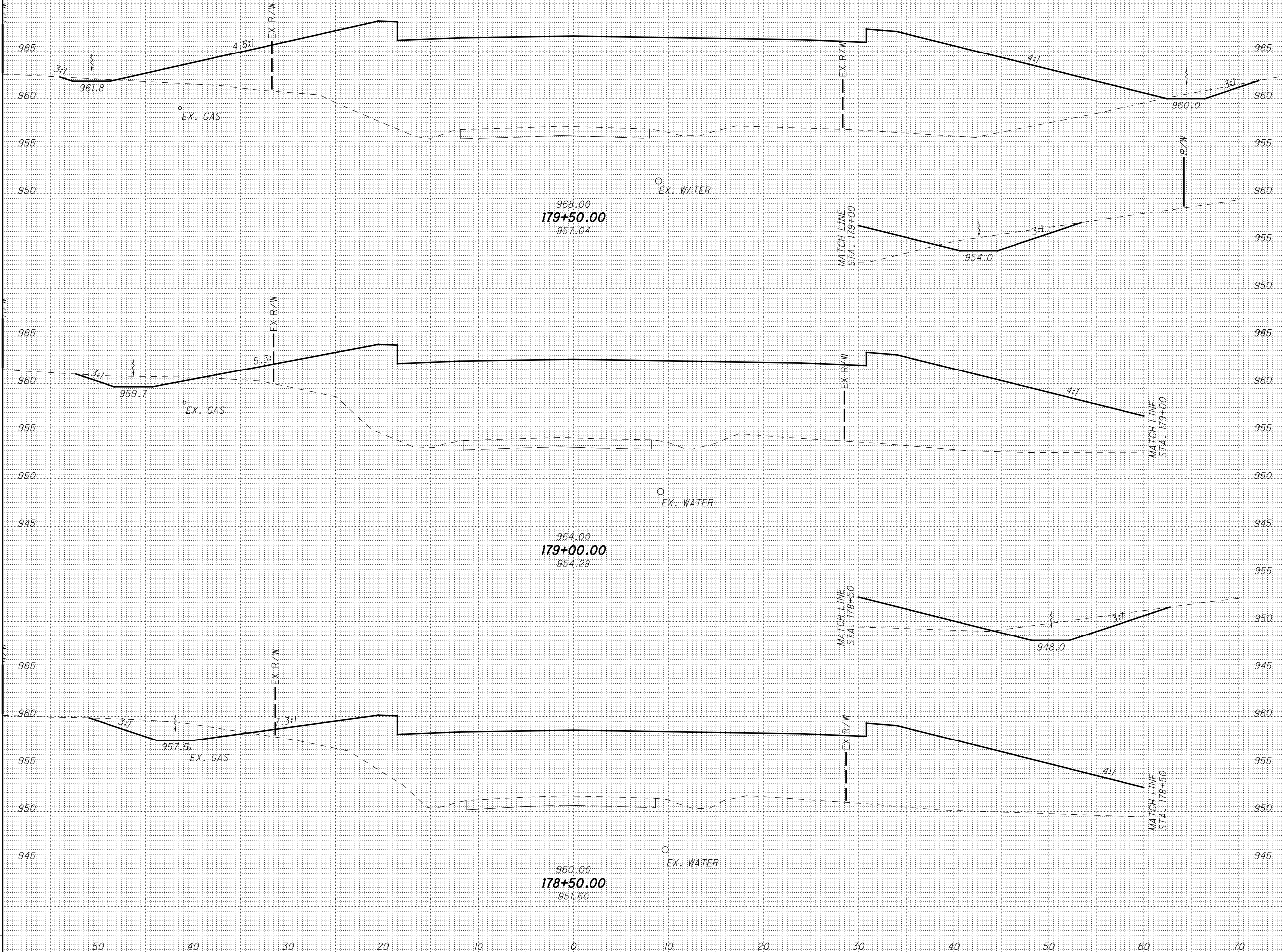
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
STA. 178+50.00 TO STA. 179+50.00

LIC-THORNWOOD

200
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:28AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA

CUT	FILL

VOLUME

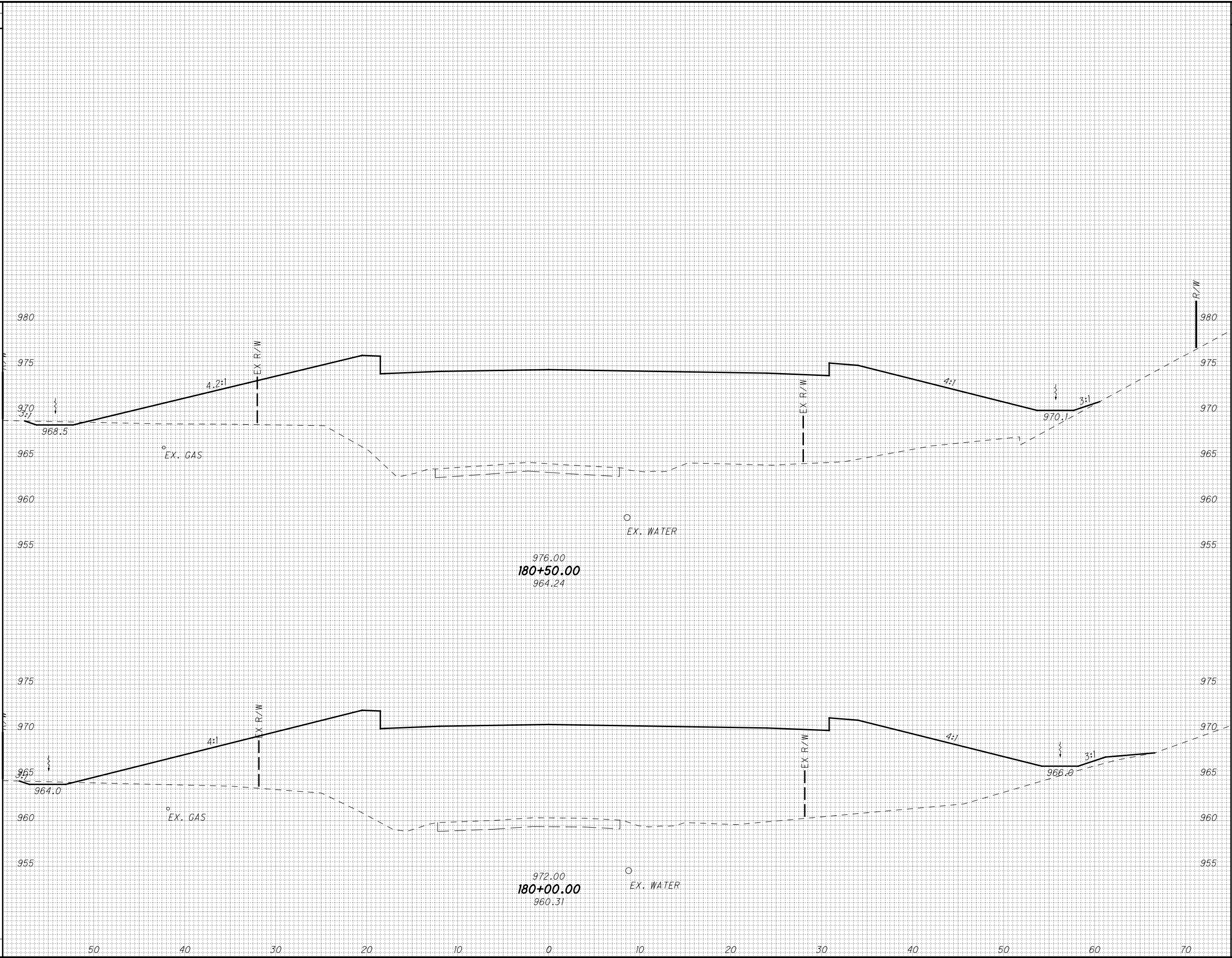
CUT	FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 180+00.00 TO STA. 180+50.00

LIC-THORNWOOD

201
288



IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:28AM rgreenland

SEEDING

END WIDTH	SO. YDS.

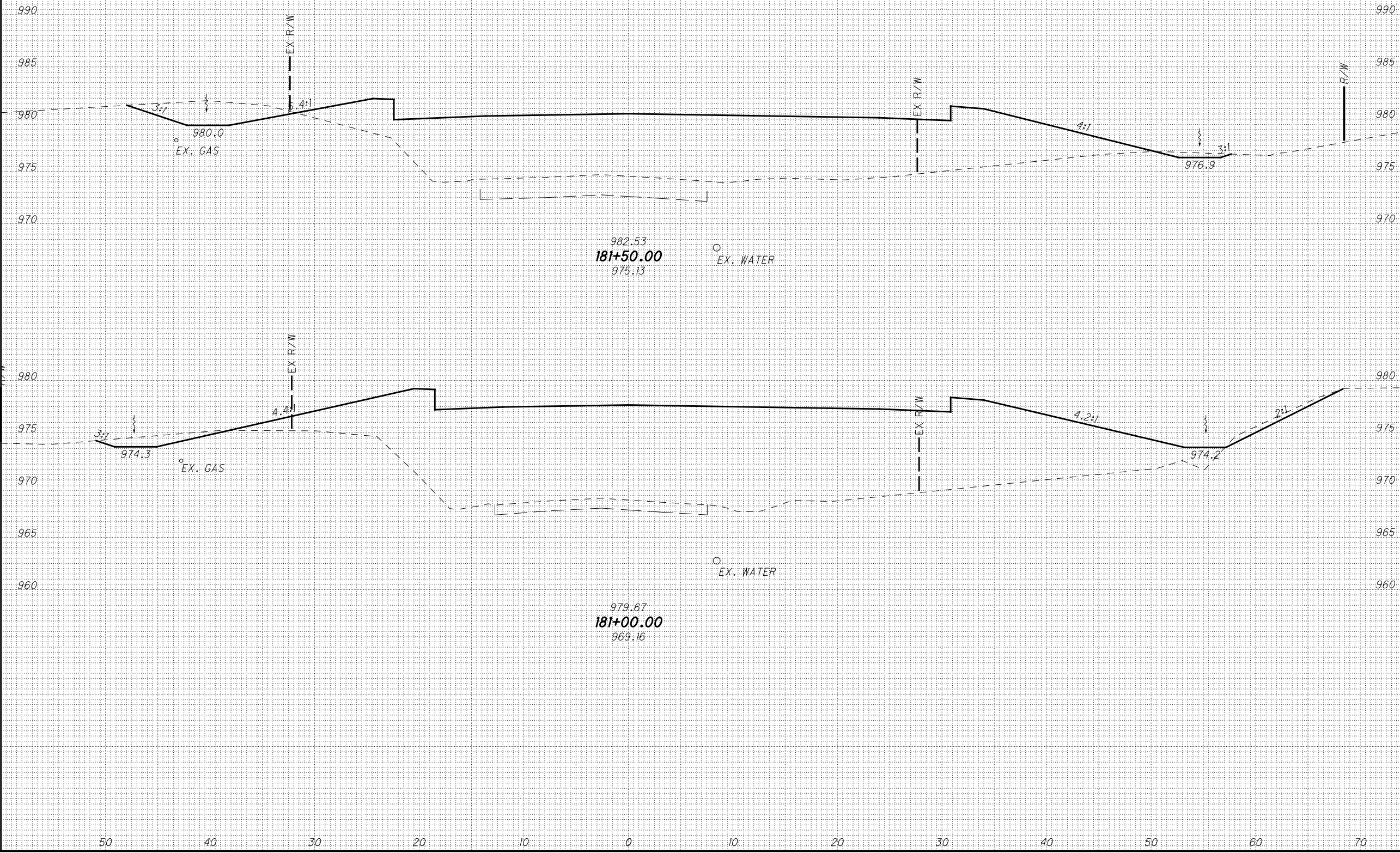
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MMB	JEL

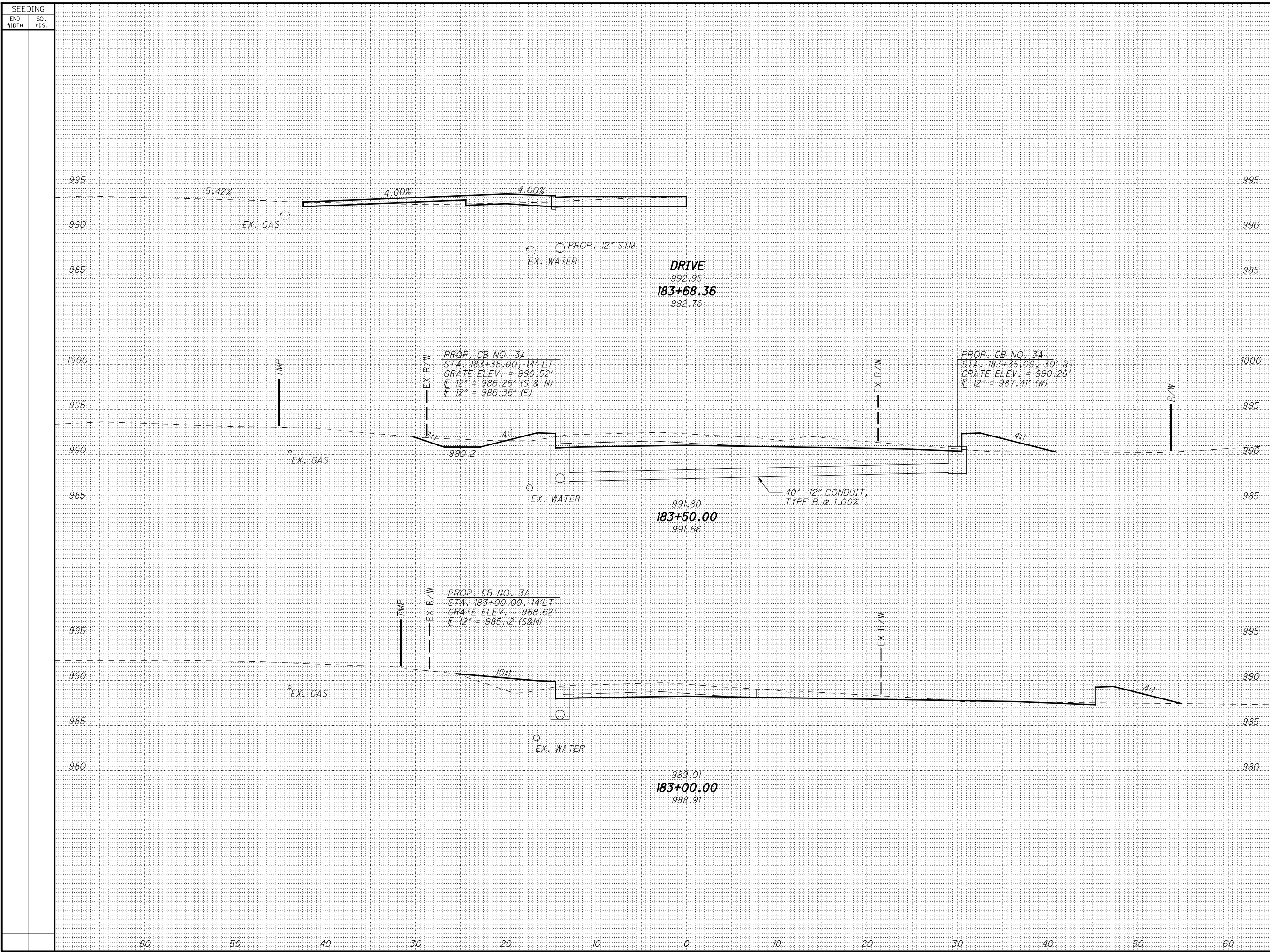
CROSS SECTIONS - THORNWOOD
STA. 181+00.00 TO STA. 182+00.00

LIC-THORNWOOD

202
288



IP_PWP:dms08268\78116\5001.dgn 28-JUL-2010 9:28AM rgreenland



CROSS SECTIONS - THORNWOOD
STA. 182+50.00 TO STA. 183+68.36

LIC-THORNWOOD

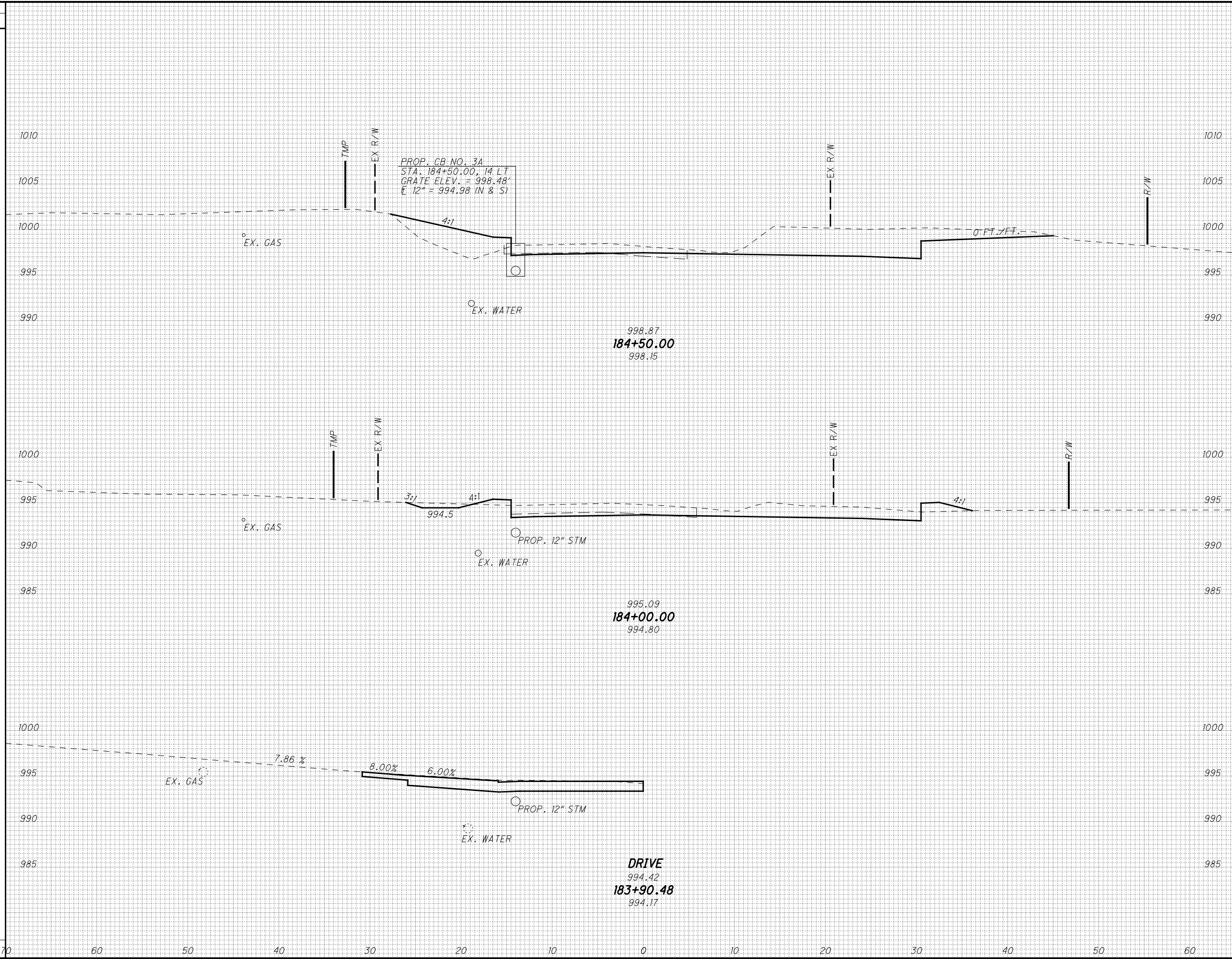
203
288

CALCULATED
MMB
CHECKED
JEL

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:28AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 183+90.48 TO STA. 184+50.00

LIC-THORNWOOD

204
288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:28AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

END AREA VOLUME

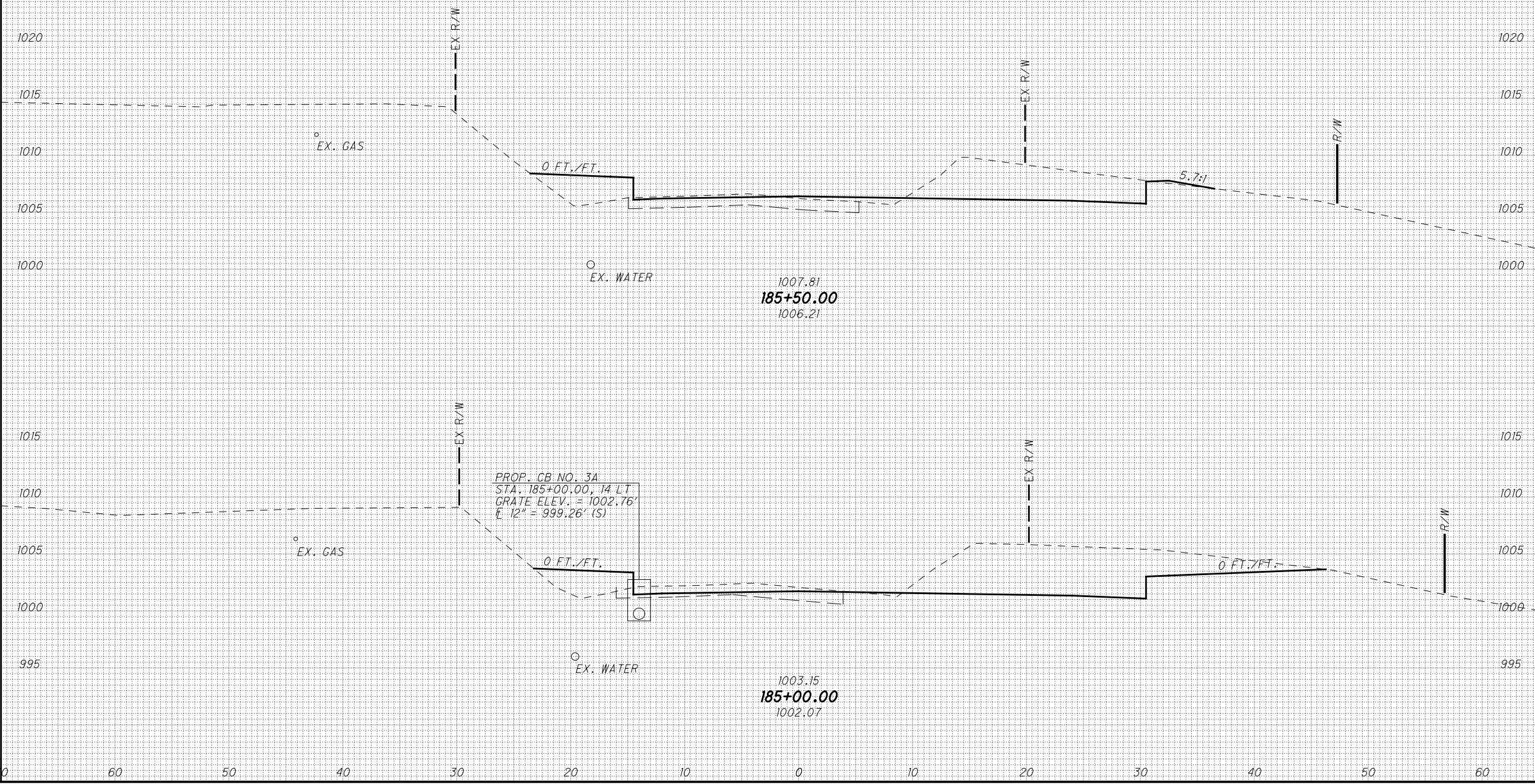
CUT	FILL	CUT	FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - THORNWOOD
STA. 185+00.00 TO STA. 185+50.00

LIC-THORNWOOD

205
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:28AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	

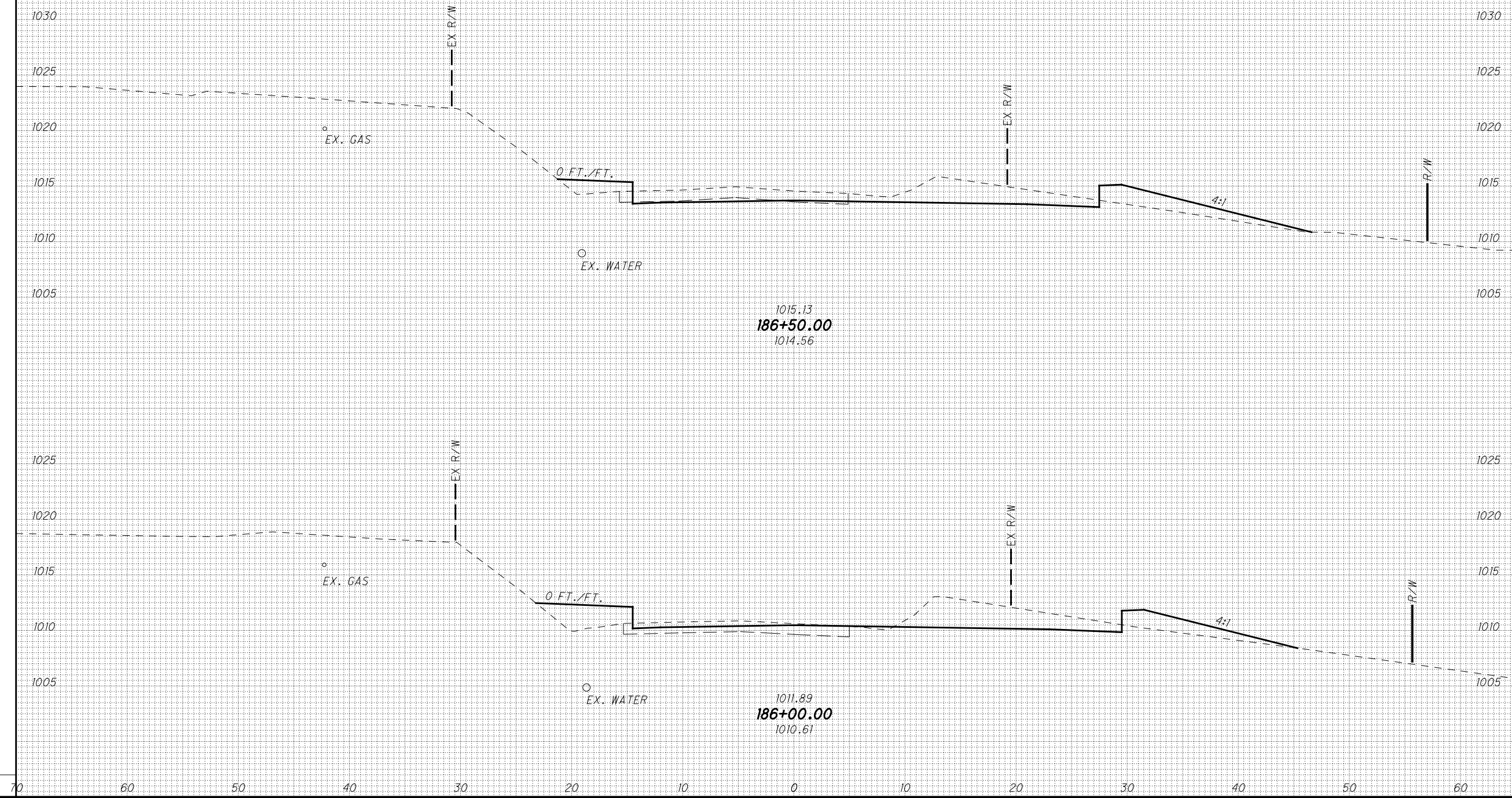
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED	JEL
MMB		

CROSS SECTIONS - THORNWOOD
STA. 186+00.00 TO STA. 186+50.00

LIC-THORNWOOD

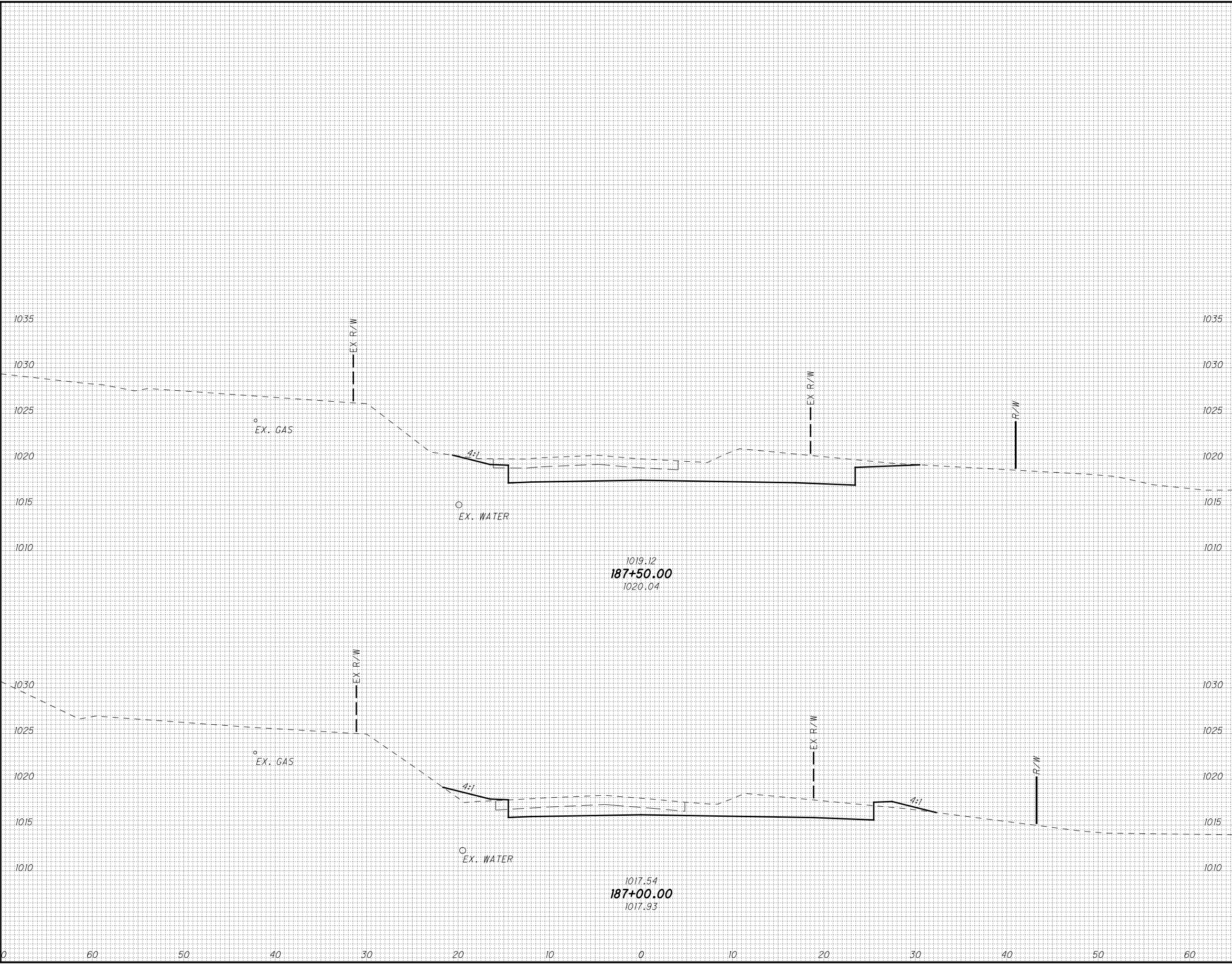
206
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:29AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	
CUT	FILL	CUT	FILL	MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 187+00.00 TO STA. 187+50.00

LIC-THORNWOOD

207
288

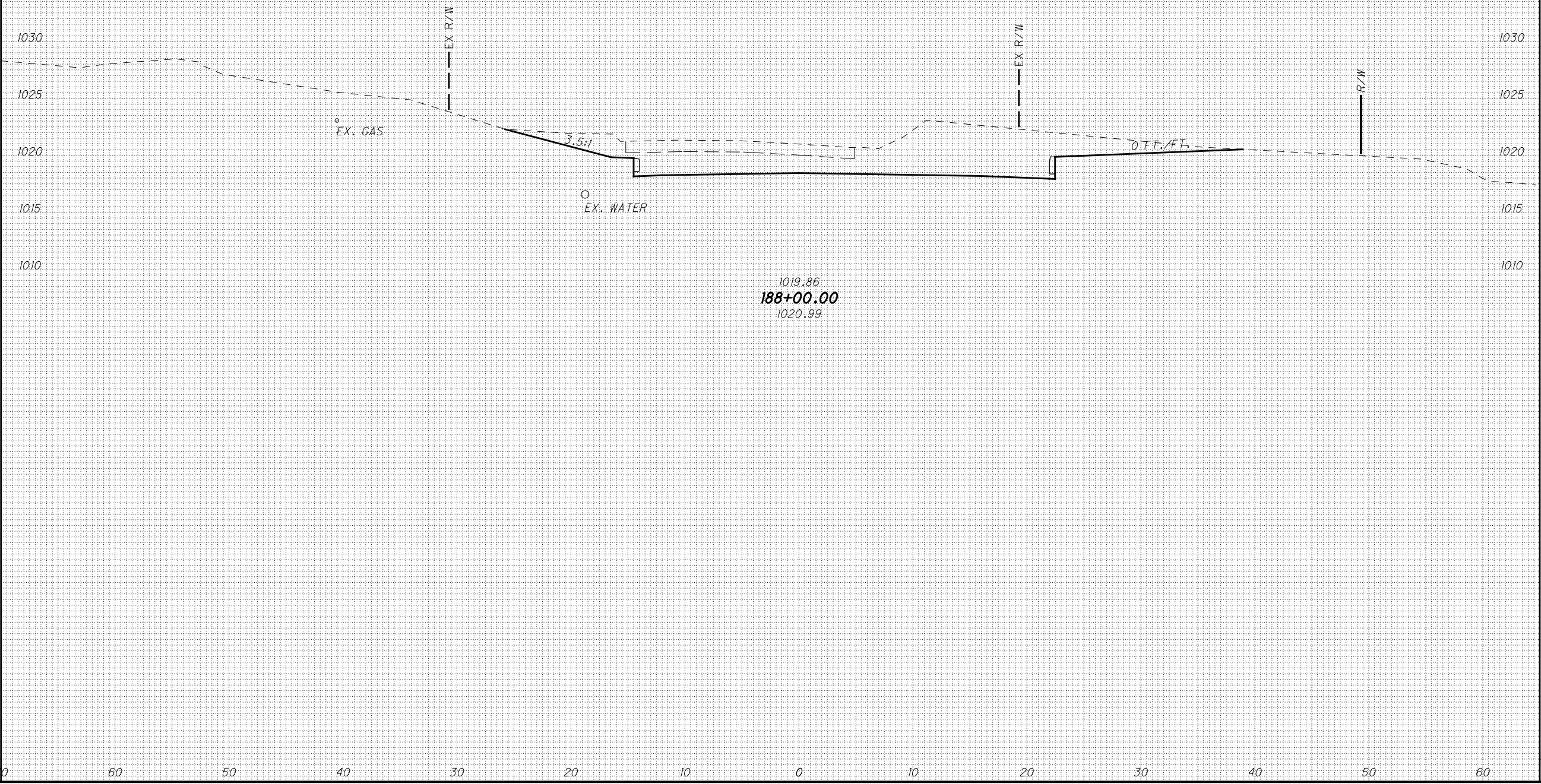
IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:29AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL



CROSS SECTIONS - THORNWOOD
STA. 188+00.00 TO STA. 188+00.00

LIC-THORNWOOD

208
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:29AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

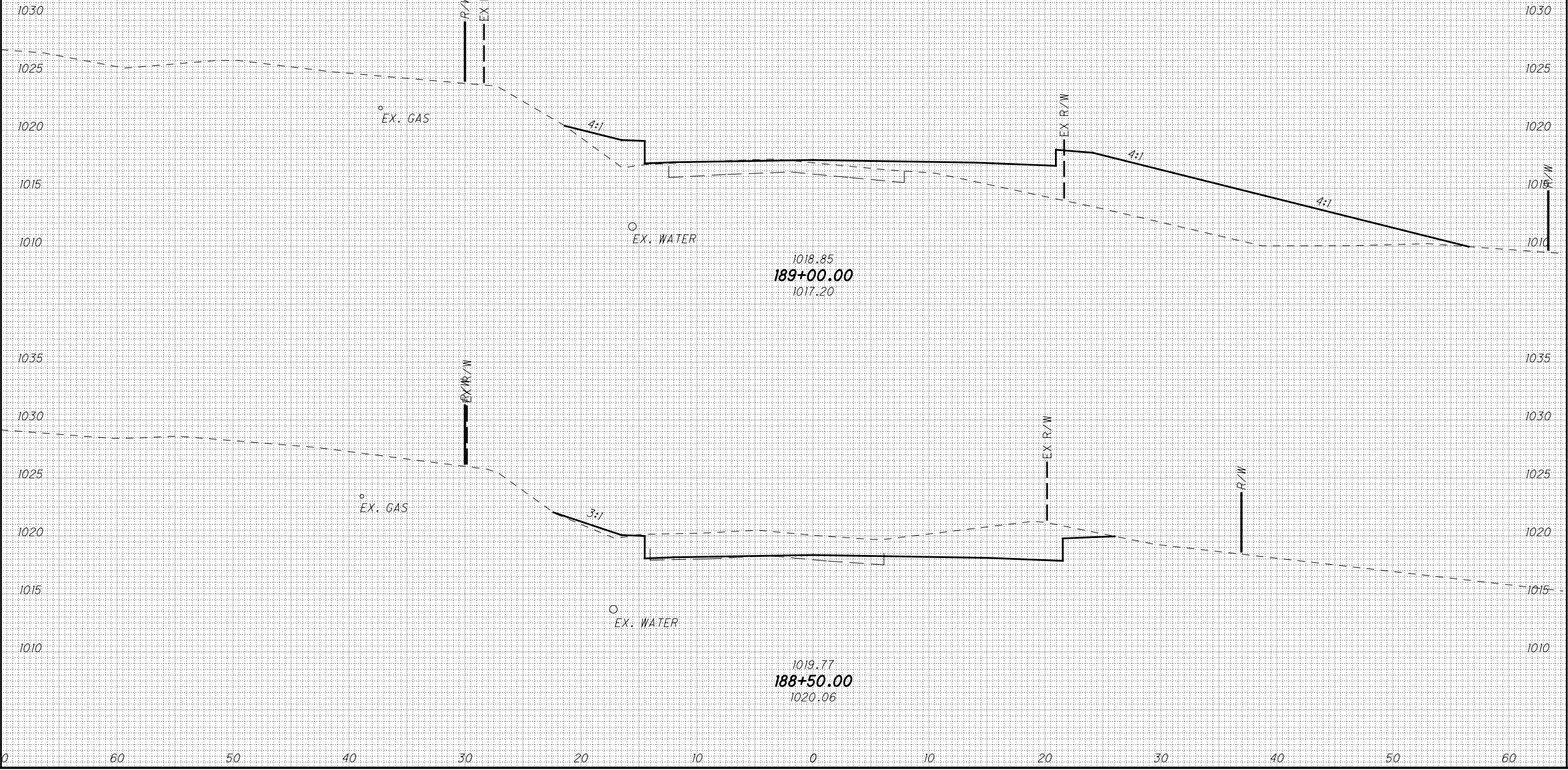
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 188+50.00 TO STA. 189+40.32

LIC-THORNWOOD

209
288



P:\PWP\dms08268\78116\5001.dgn 28-JUL-2010 9:29AM rgreenland

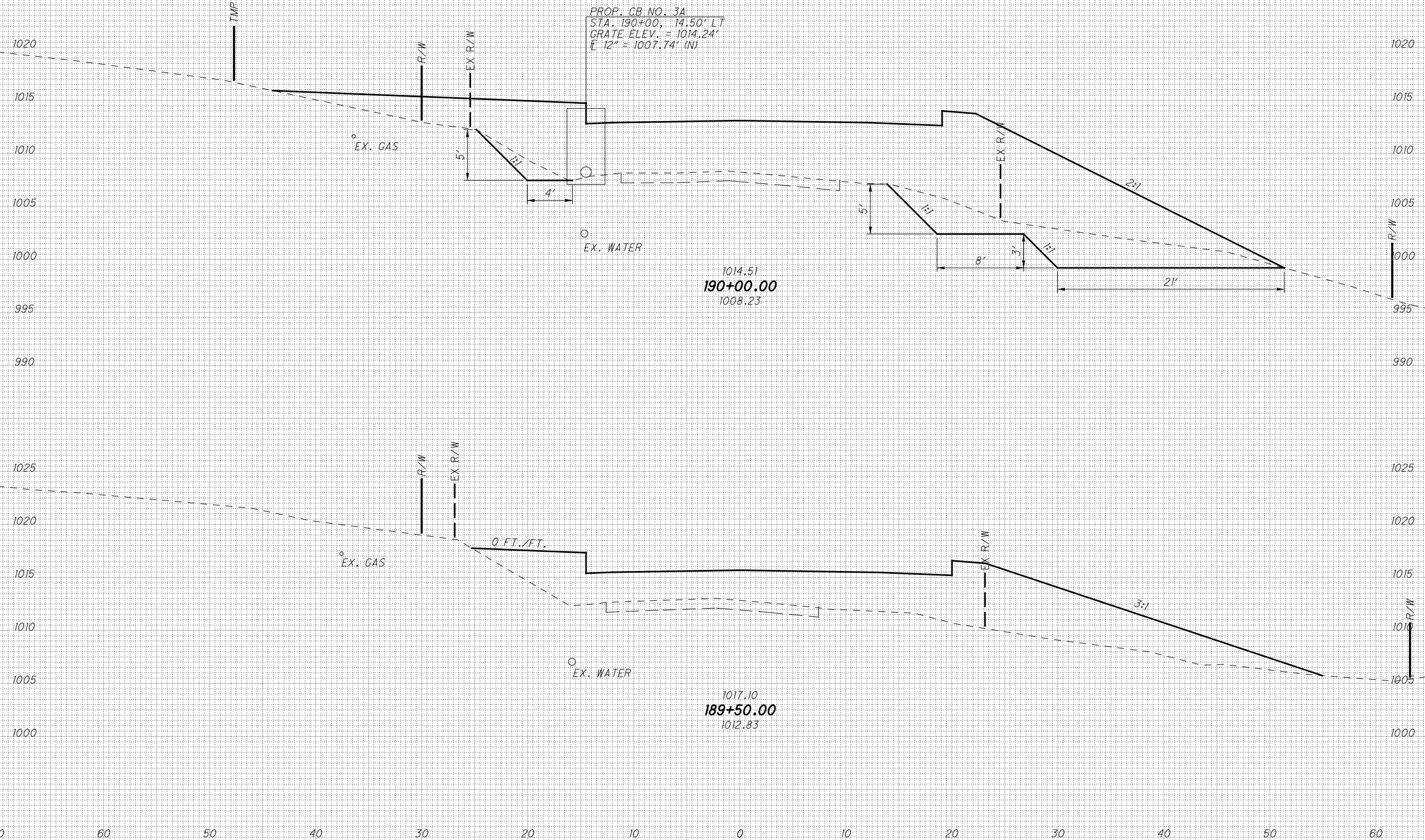
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 189+50.00 TO STA. 190+00.00

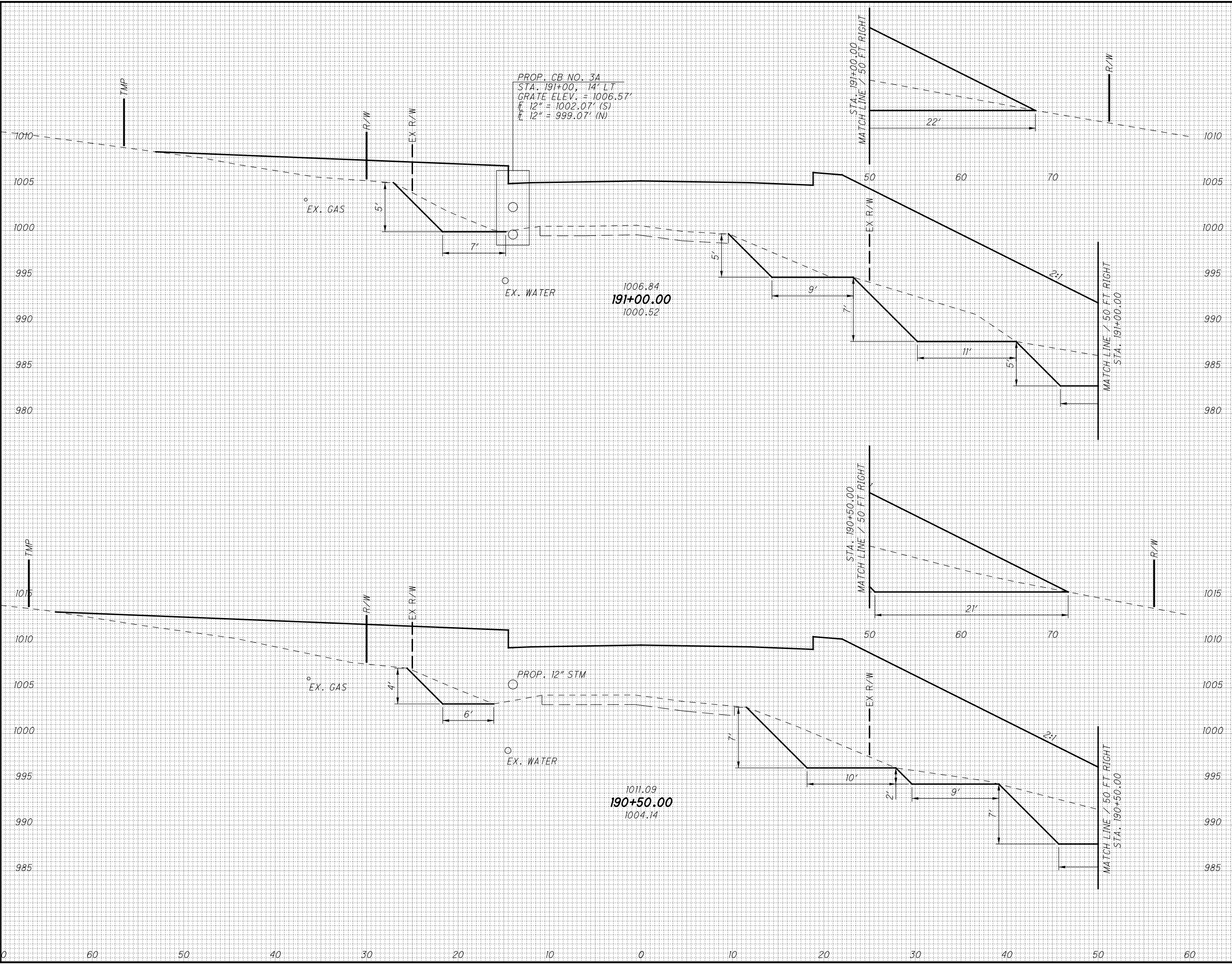
LIC-THORNWOOD

210
288



SEEDING

END WIDTH	SQ. YDS.		
		CUT	FILL
70			
60			
50			
40			
30			
20			
10			
0			
10			
20			
30			
40			
50			
60			



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED
 MMB
 CHECKED
 JEL

CROSS SECTIONS - THORNWOOD
STA. 190+50.00 TO STA. 191+00.00

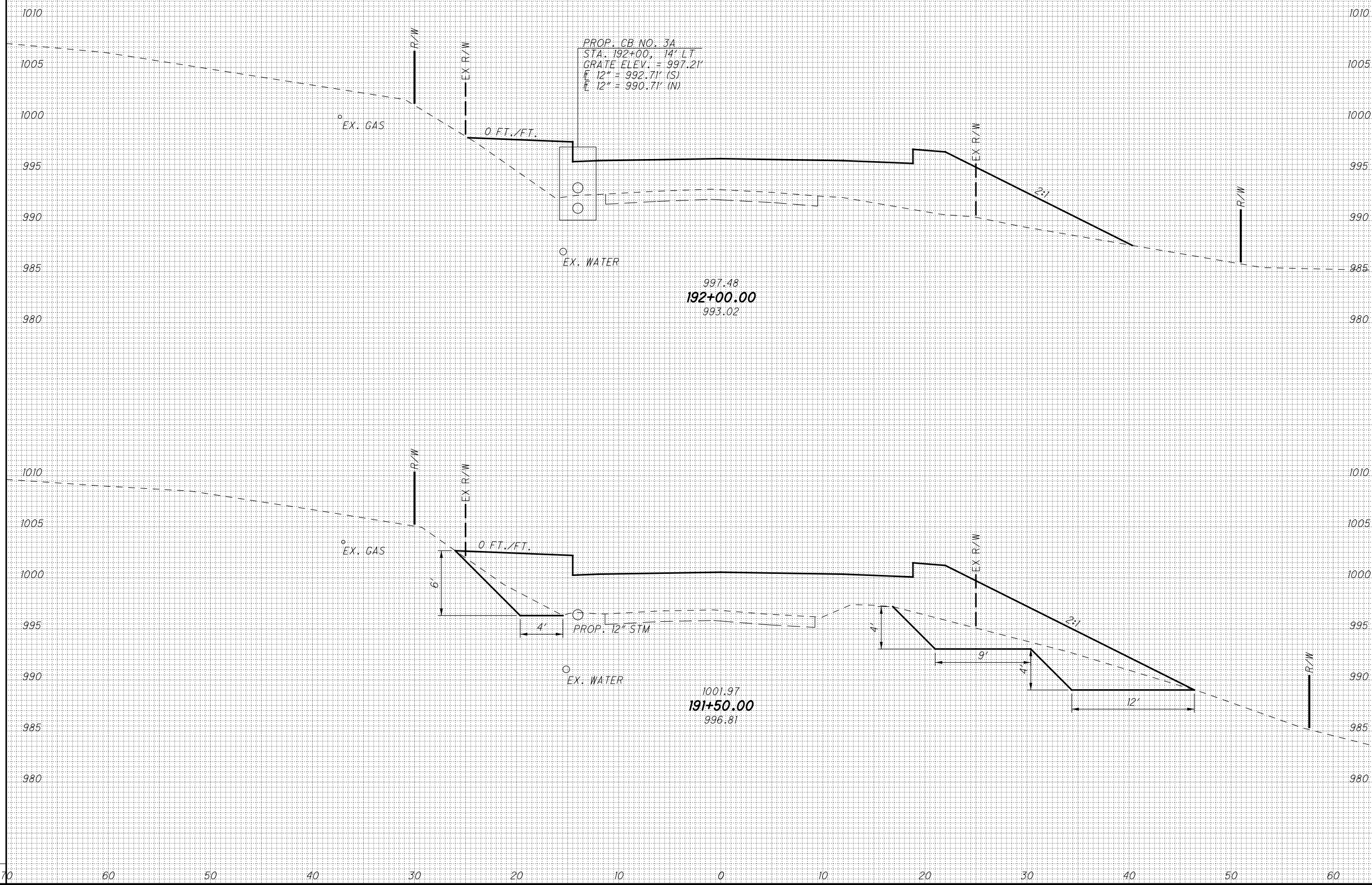
LIC-THORNWOOD

211
 288

P:\PWP\dms08268\78116XS001.dgn 28-JUL-2010 9:29AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				



CROSS SECTIONS - THORNWOOD
 STA. 191+50.00 TO STA. 192+00.00

LIC-THORNWOOD

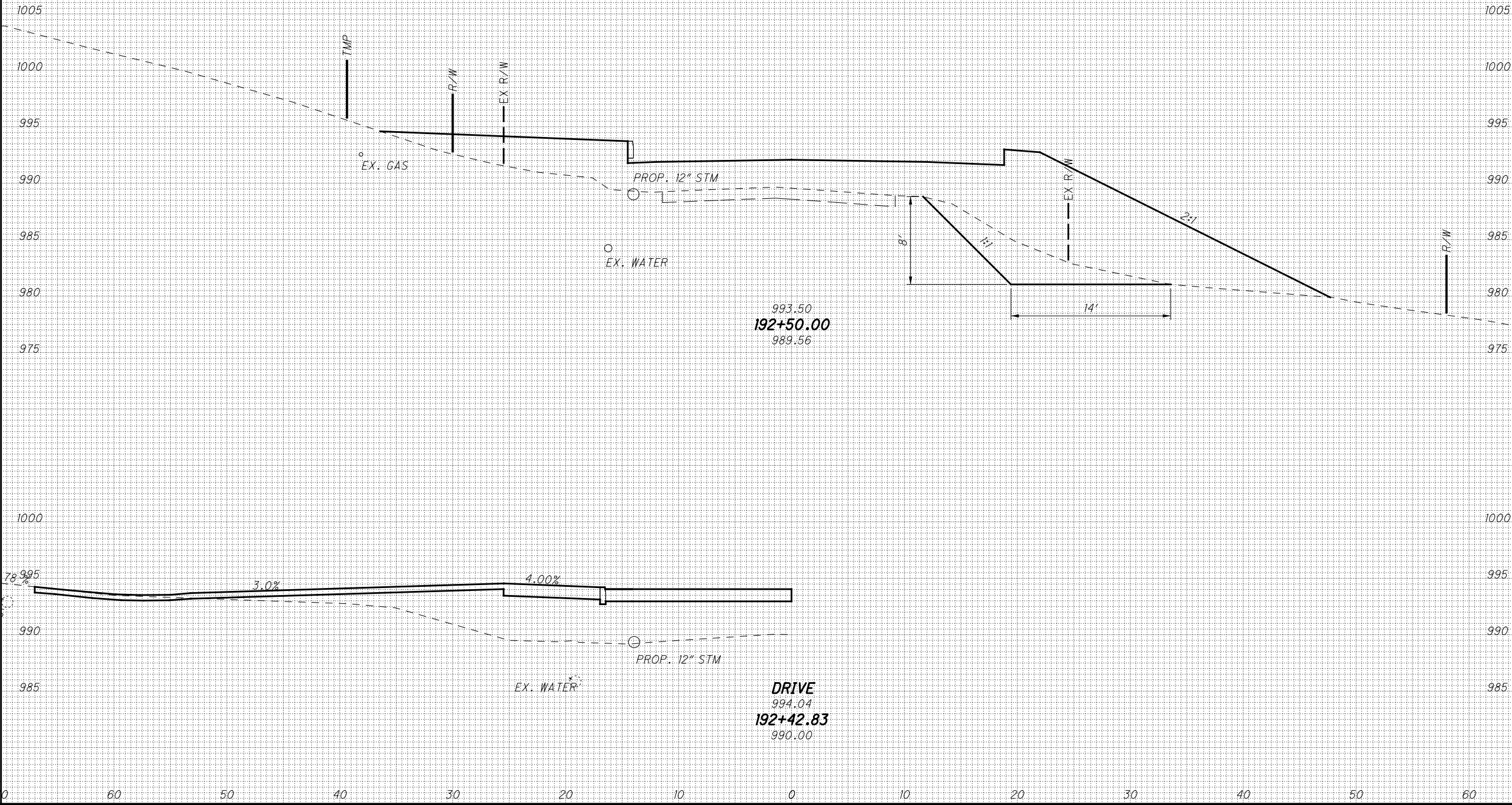
212
 288

IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:29AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	
70	

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CROSS SECTIONS - THORNWOOD
 STA. 192+42.83 TO STA. 192+50.00

LIC-THORNWOOD

213
288

CALCULATED		CHECKED	
MMB	JEL	MMB	JEL

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:30AM rgreenland

SEEDING

END WIDTH	SO. YDS.
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	
70	
80	

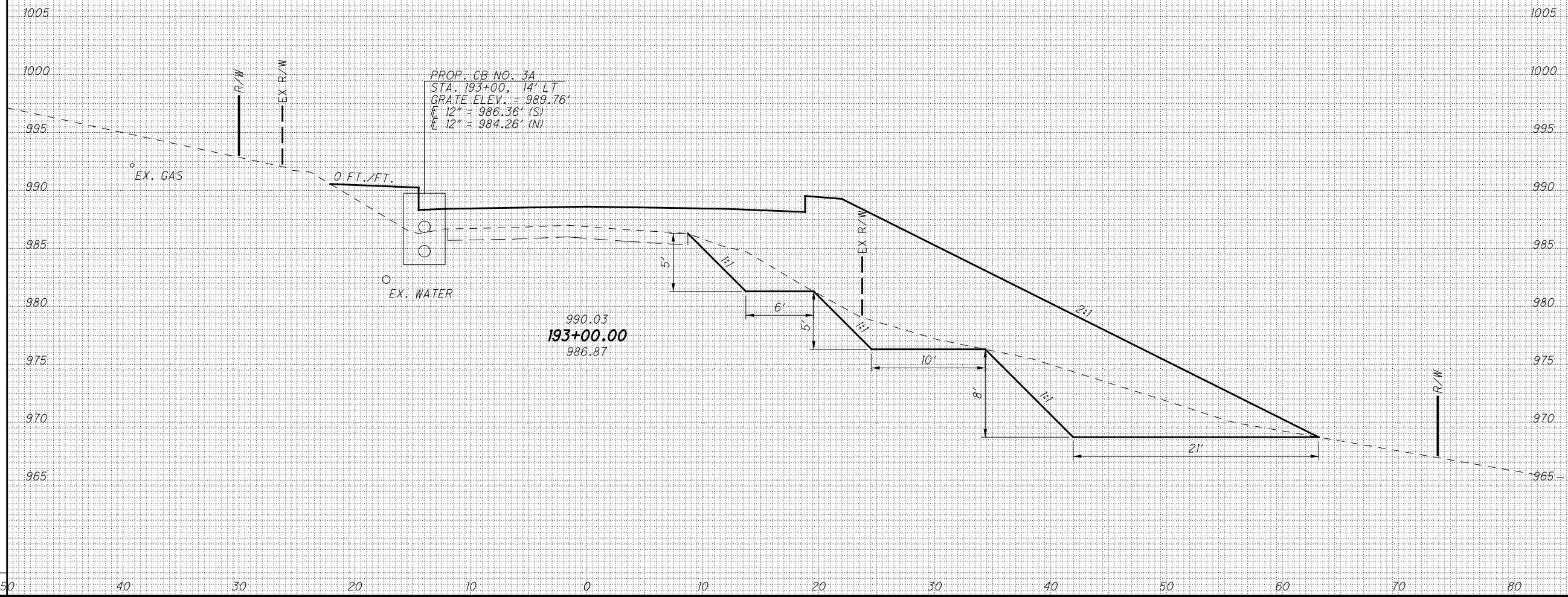
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 193+00.00 TO STA. 193+00.00

LIC-THORNWOOD

214
288



IP_PWP:dms08268\78116\5001.dgn 28-JUL-2010 9:30AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA

CUT	FILL

VOLUME

CUT	FILL

CALCULATED

MMB

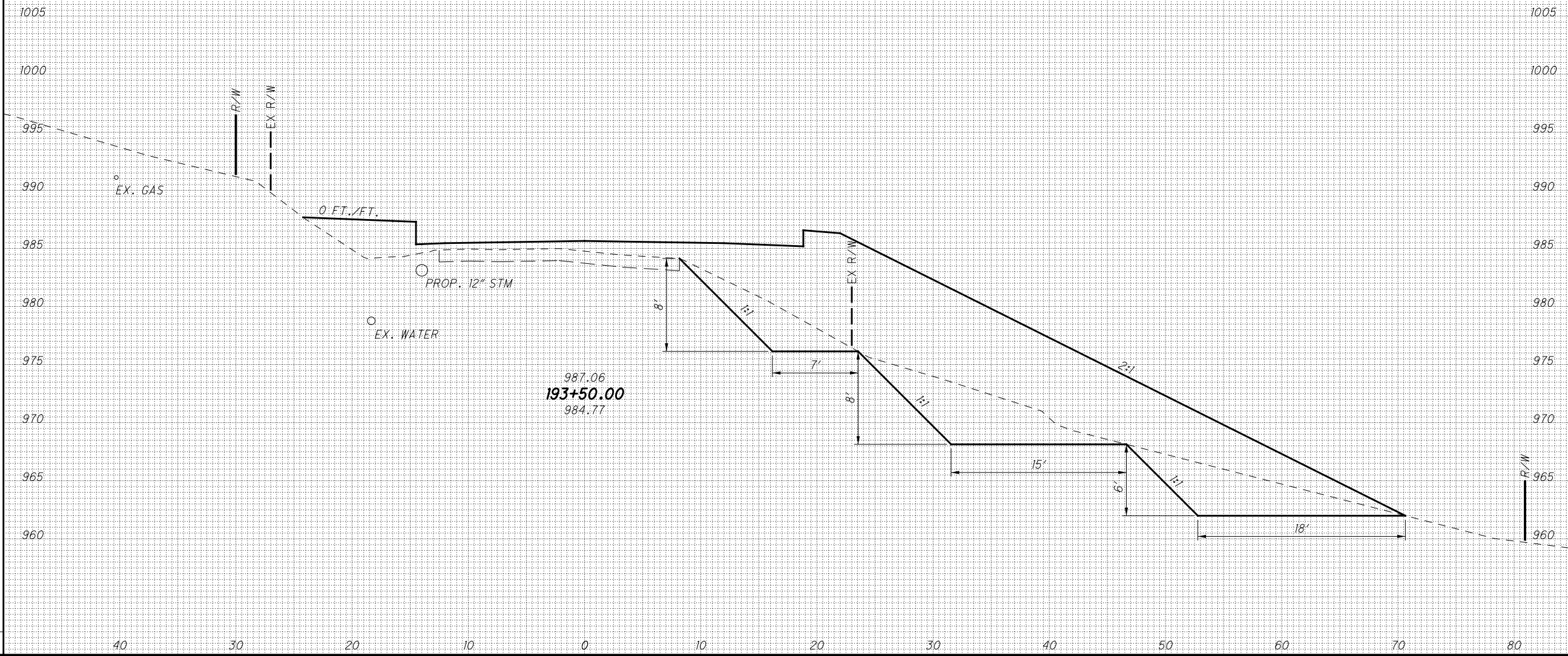
CHECKED

JEL

CROSS SECTIONS - THORNWOOD
STA. 193+50.00 TO STA. 193+50.00

LIC-THORNWOOD

215
288



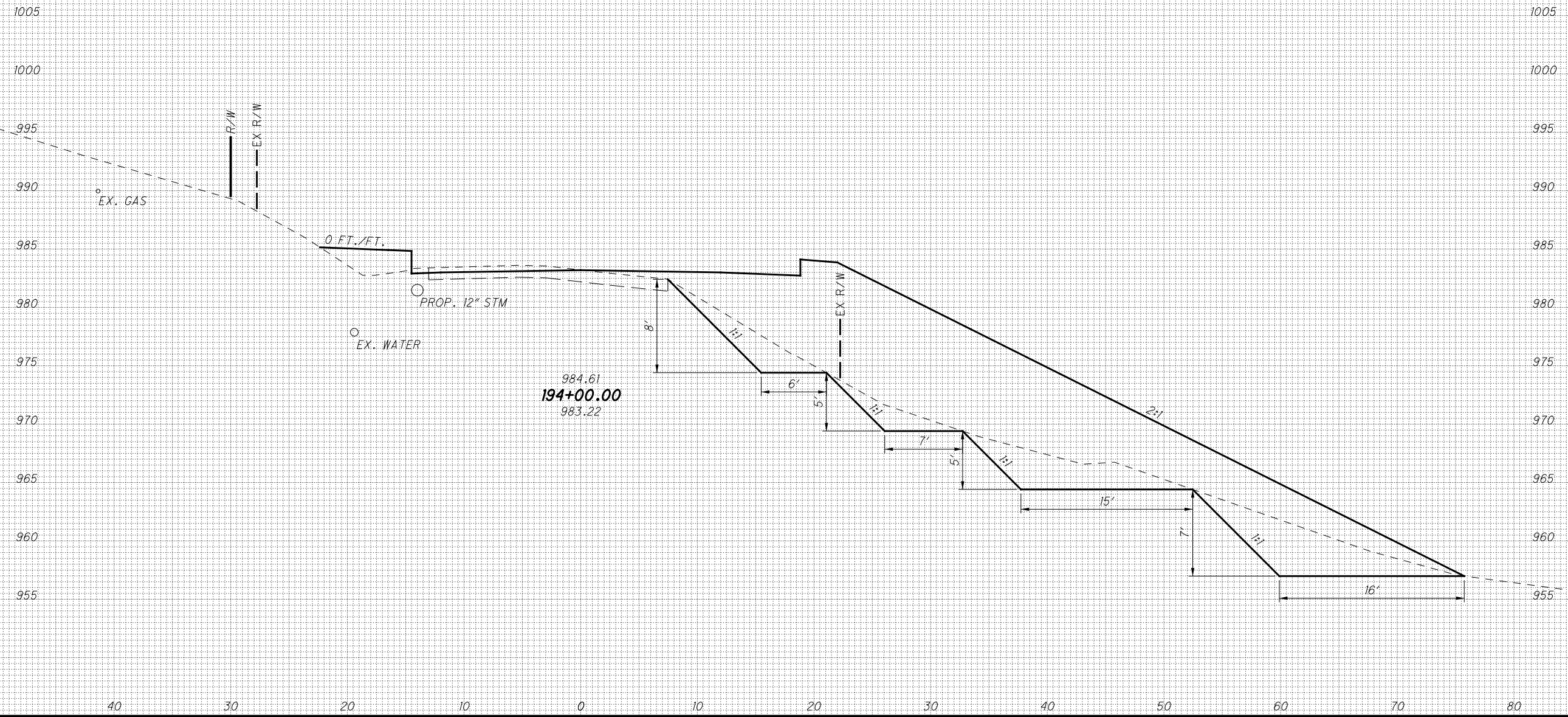
IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:30AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MMB	JEL



CROSS SECTIONS - THORNWOOD
STA. 194+00.00 TO STA. 194+00.00

LIC-THORNWOOD

216
288

IP_PWP:dms08268\78116\5001.dgn 28-JUL-2010 9:30AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
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60	

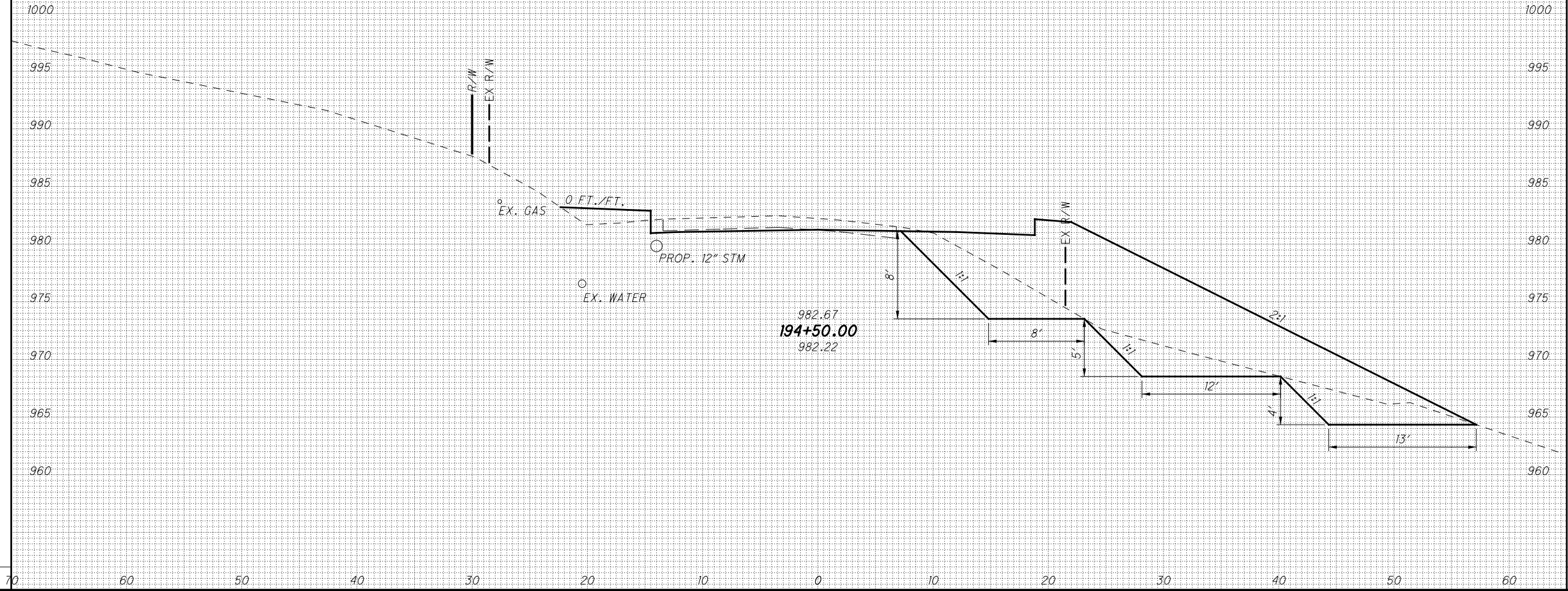
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 194+50.00 TO STA. 194+50.00

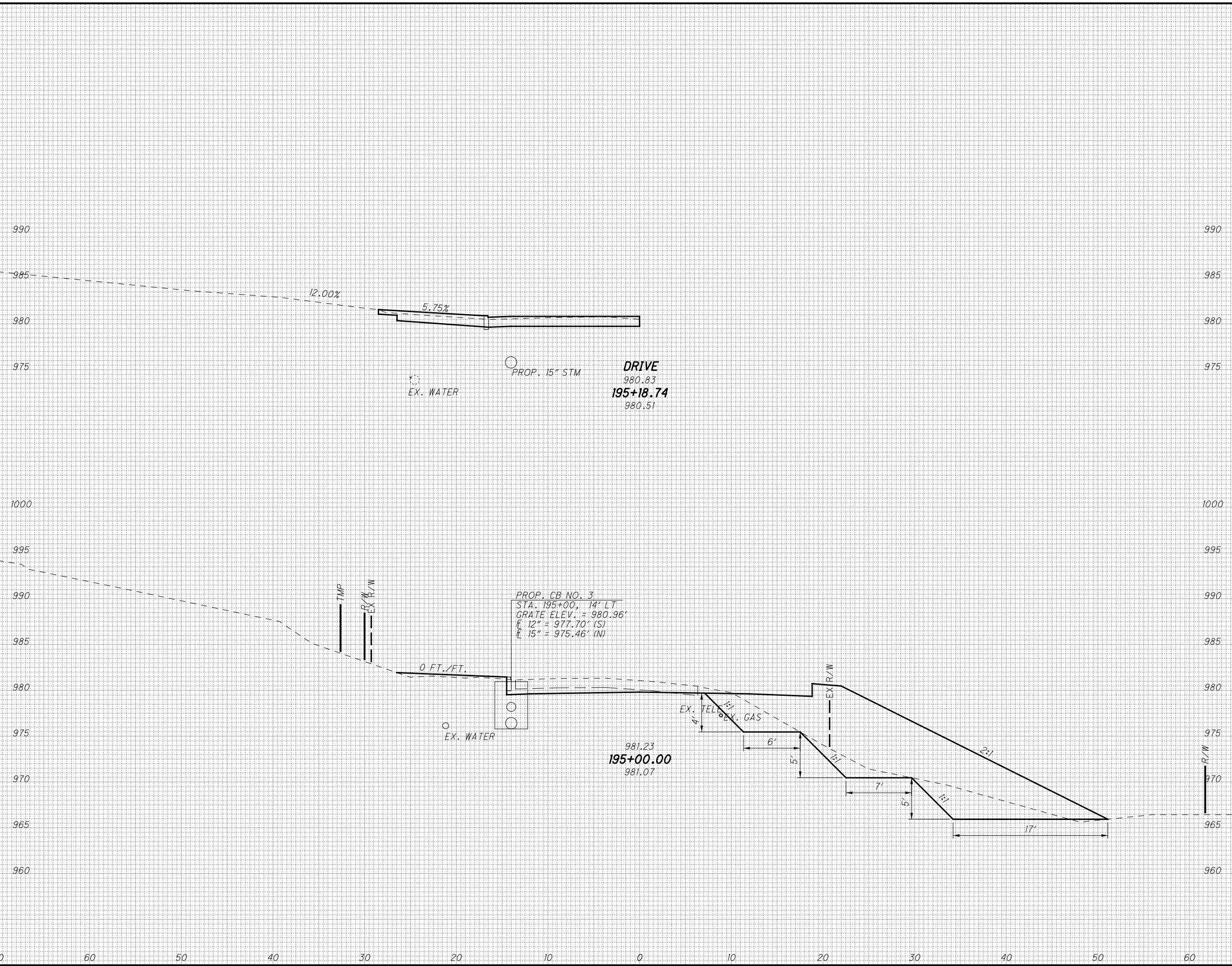
LIC-THORNWOOD

217
288



IP_PWP:dms08268\78116X5001.dgn 28-JUL-2010 9:30AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 195+00.00 TO STA. 195+18.74

LIC-THORNWOOD

218
 288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:30AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

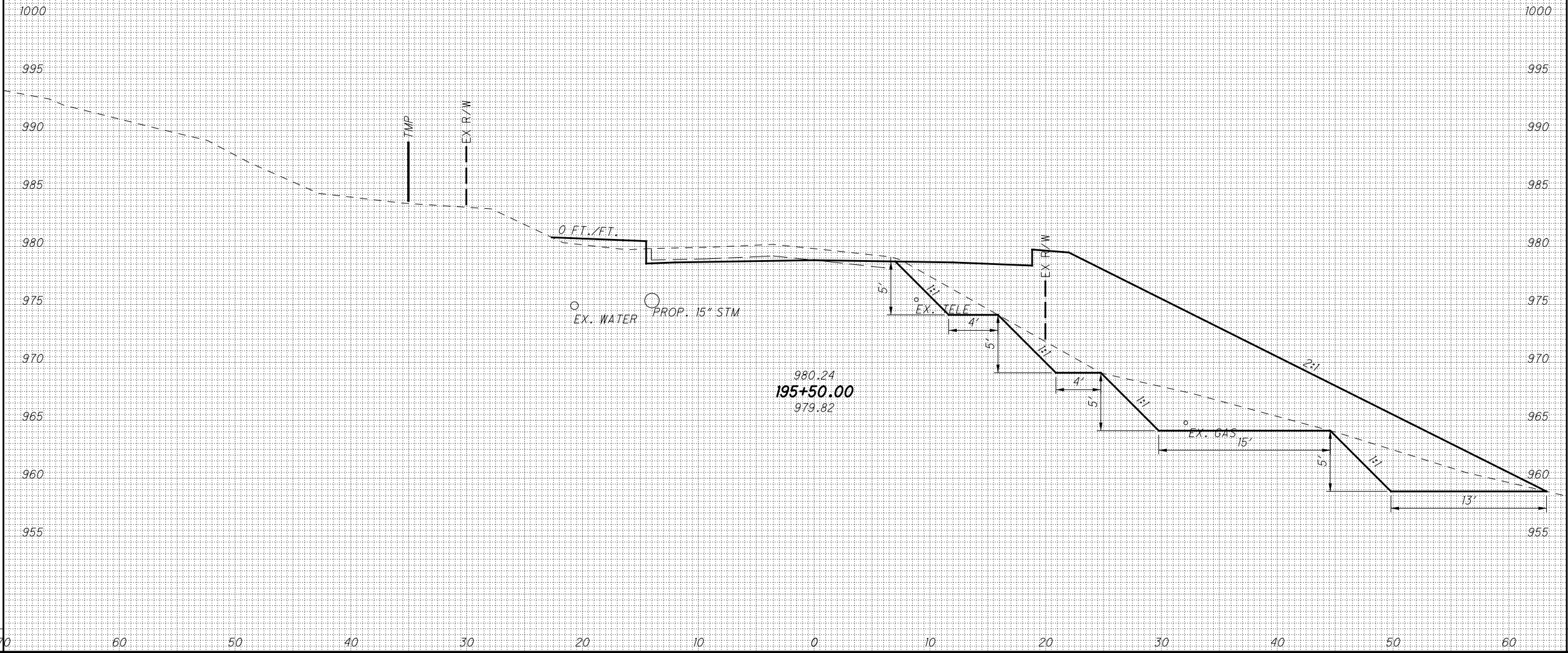
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
 STA. 195+50.00 TO STA. 195+50.00

LIC-THORNWOOD

219
288



IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:31AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

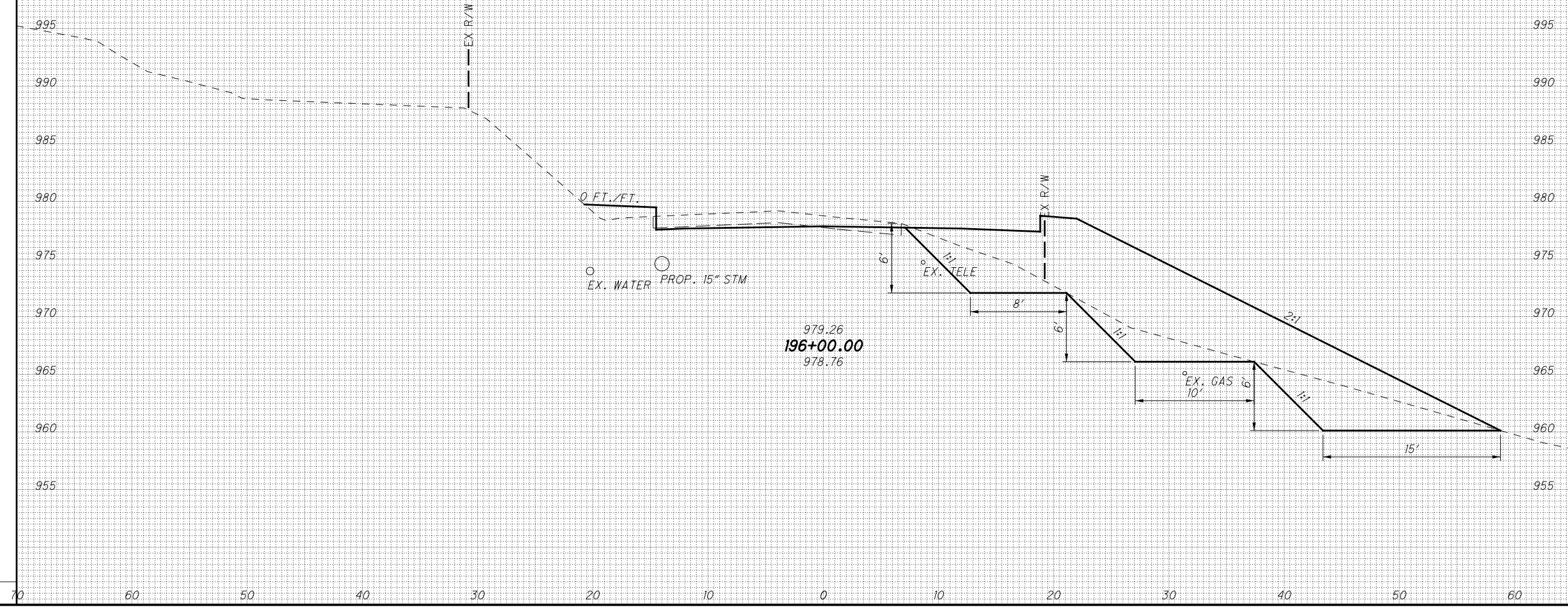
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 196+00.00 TO STA. 196+00.00

LIC-THORNWOOD

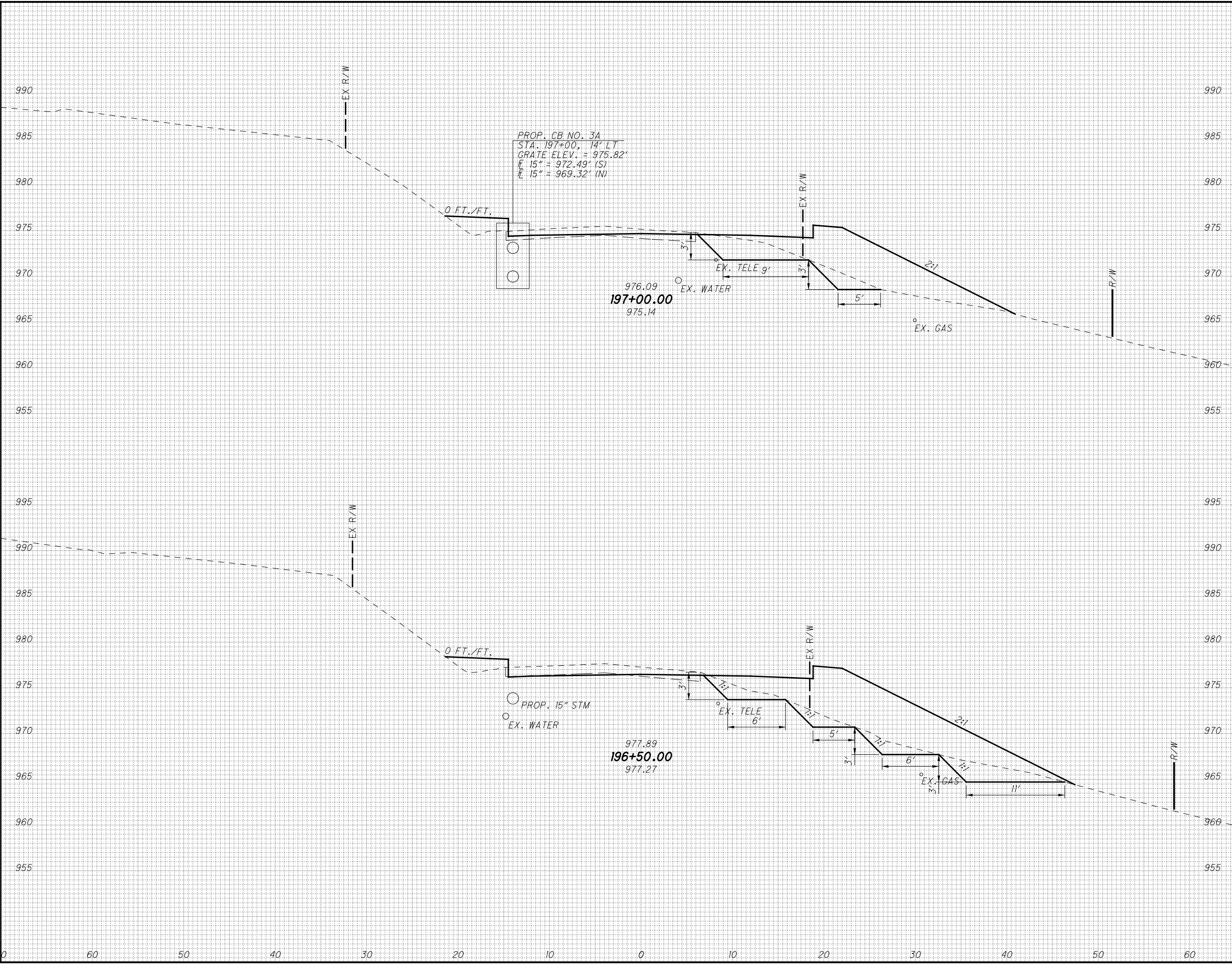
220
288



P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:31AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - THORNWOOD
 STA. 196+50.00 TO STA. 197+00.00

LIC-THORNWOOD

221
288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:31AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

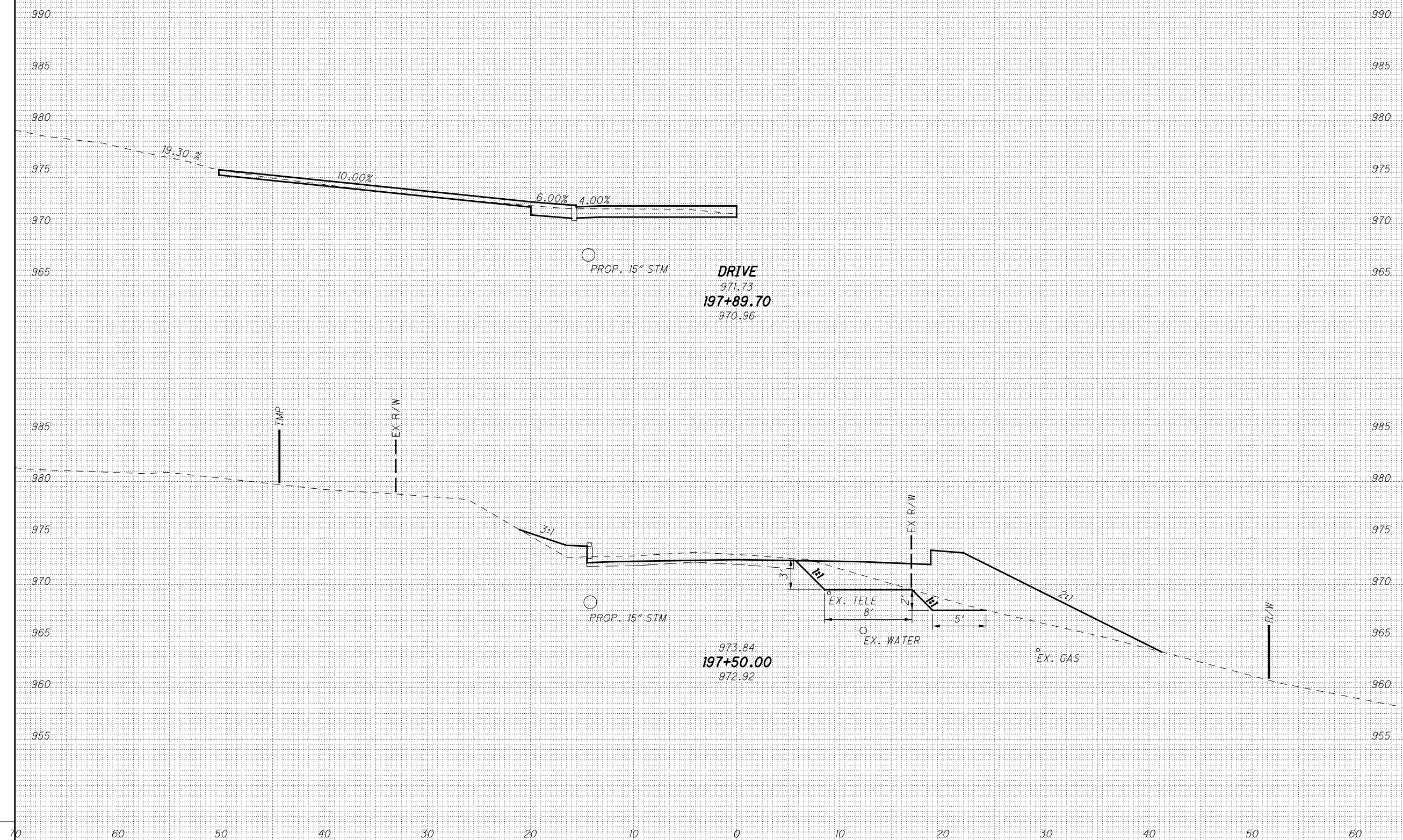
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 197+50.00 TO STA. 197+89.70

LIC-THORNWOOD

222
288



P:\PWP\dms08268\78116XS001.dgn 28-JUL-2010 9:31AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

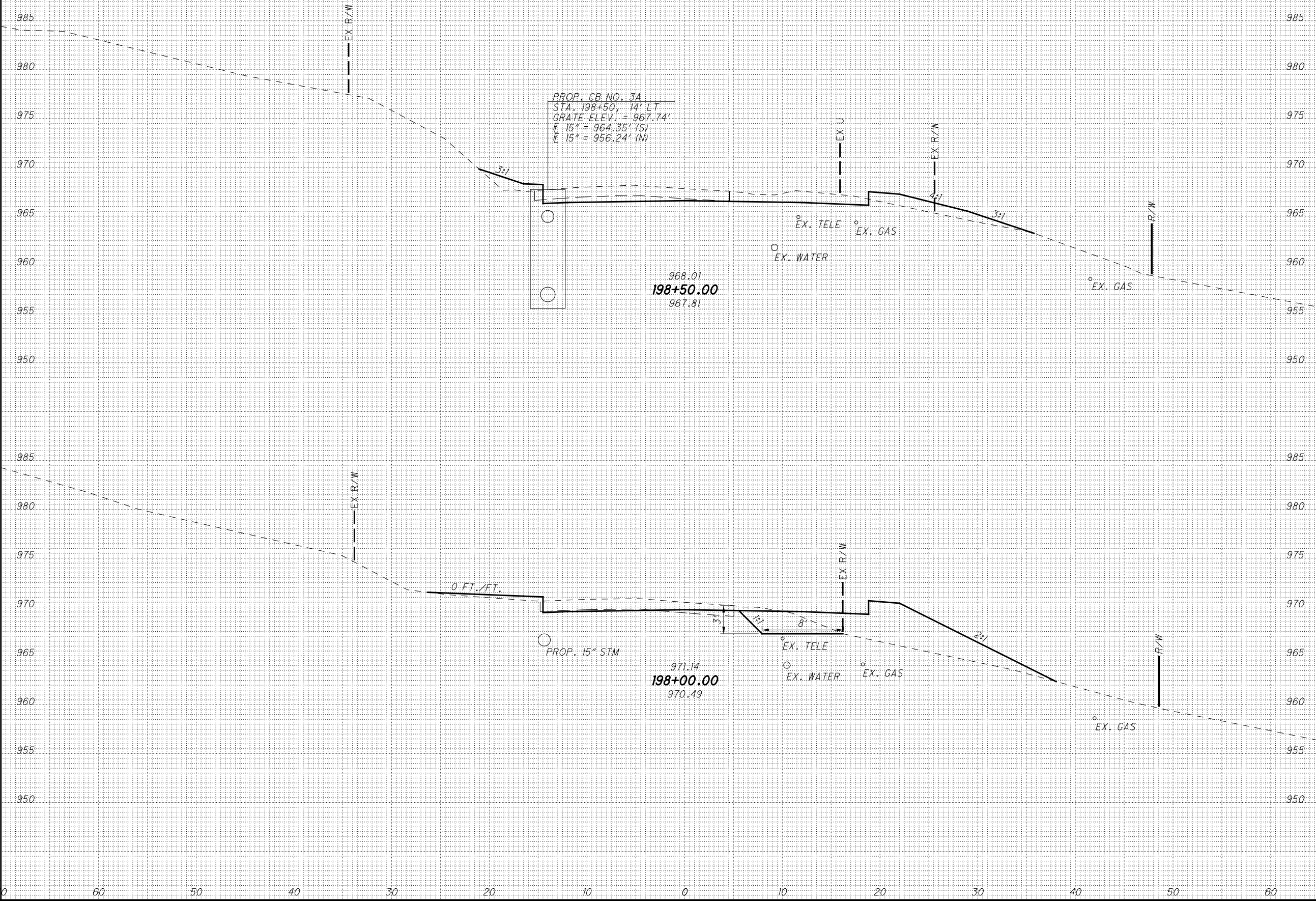
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 198+00.00 TO STA. 198+50.00

LIC-THORNWOOD

223
288



PROP. CB NO. 3A
STA. 198+50, 14' LT
GRATE ELEV. = 967.74'
E 15" = 964.35' (S)
E 15" = 956.24' (N)

968.01
198+50.00
967.81

PROP. 15" STM

971.14
198+00.00
970.49

EX. TELE
EX. WATER
EX. GAS

EX. TELE
EX. WATER
EX. GAS

EX. GAS

EX. GAS

EX R/W

EX R/W

EX U

EX R/W

R/W

R/W

3:1

3:1

0 FT./FT.

3:1

2:1

IP_PWP:dms08268\78116\5001.dgn 28-JUL-2010 9:31AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

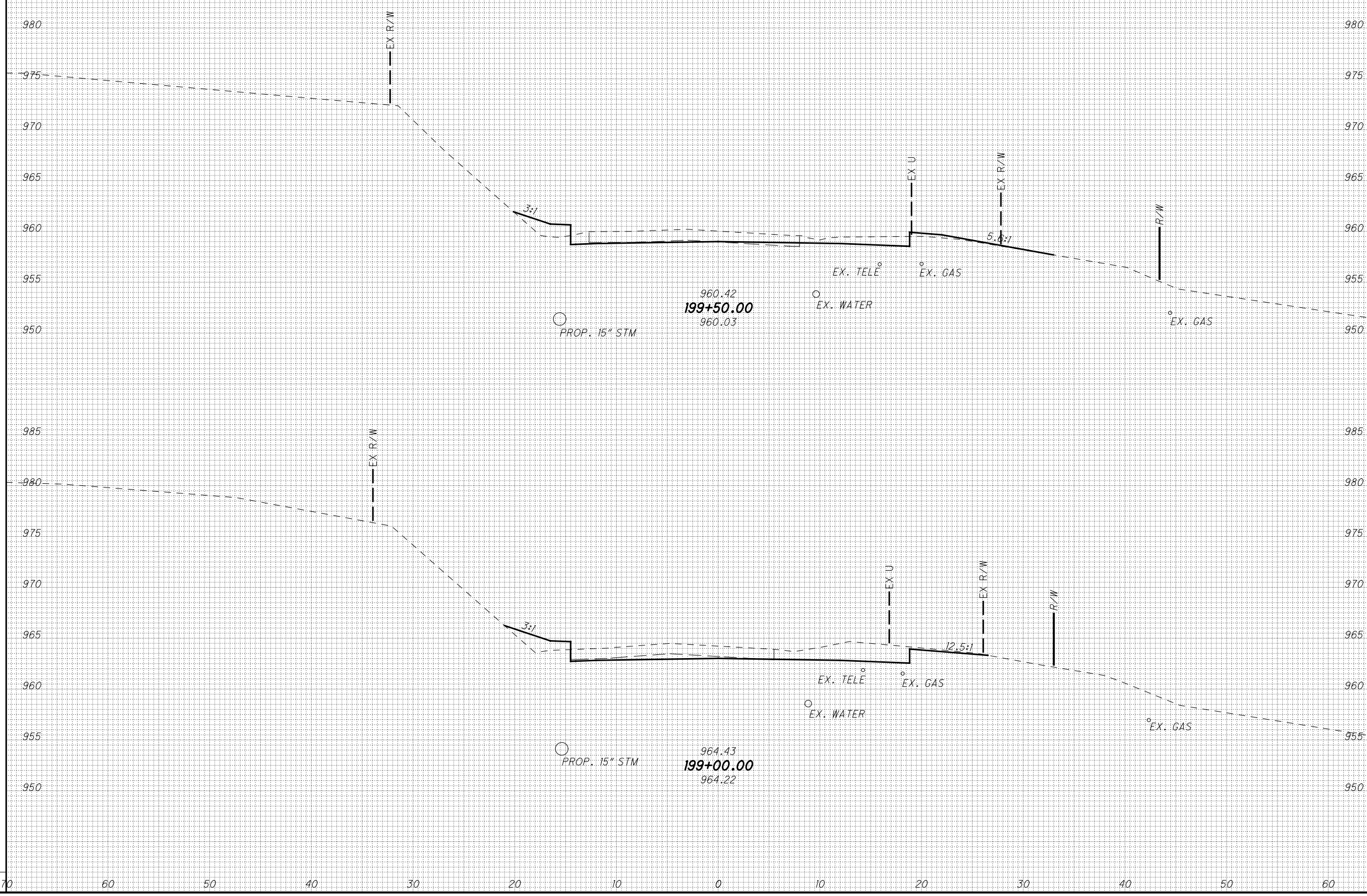
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED	JEL
MMB		

CROSS SECTIONS - THORNWOOD
STA. 199+00.00 TO STA. 199+50.00

LIC-THORNWOOD

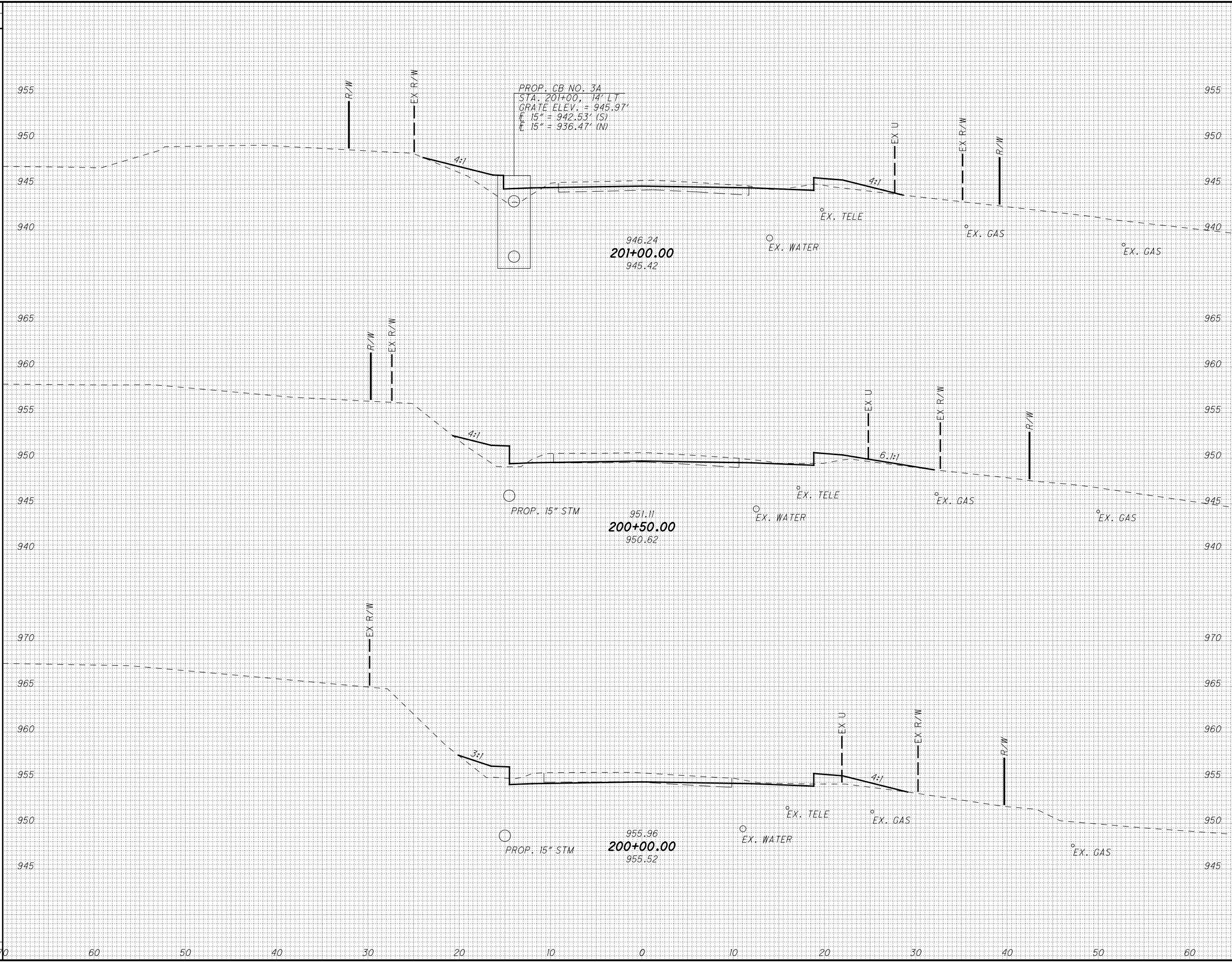
224
288



P:\PWP\dms08268\78116\X5001.dgn 28-JUL-2010 9:31AM rgreenland

SEEDING

END WIDTH	SQ. YDS.		
		CUT	FILL
70			
60			
50			
40			
30			
20			
10			
0			
10			
20			
30			
40			
50			
60			



PROP. CB NO. 3A
 STA. 201+00.00 14' LT
 GRATE ELEV. = 945.97'
 E 15" = 942.53' (S)
 E 15" = 936.47' (N)

946.24
201+00.00
 945.42

951.11
200+50.00
 950.62

955.96
200+00.00
 955.52

END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
 STA. 200+00.00 TO STA. 201+00.00

LIC-THORNWOOD

225
 288

IP_PWP:dms08268\78116XS001.dgn 28-JUL-2010 9:32AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

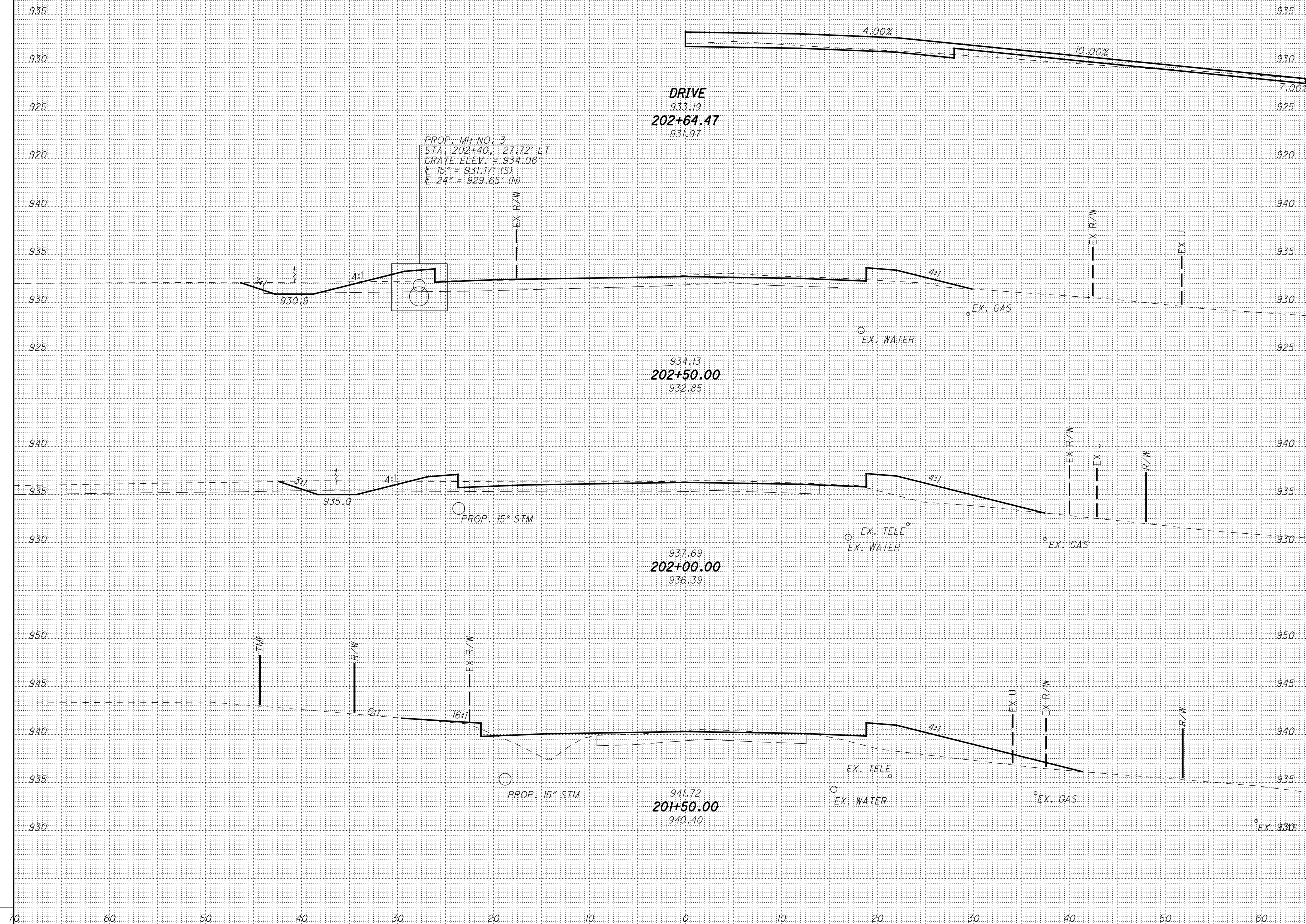
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED	JEL

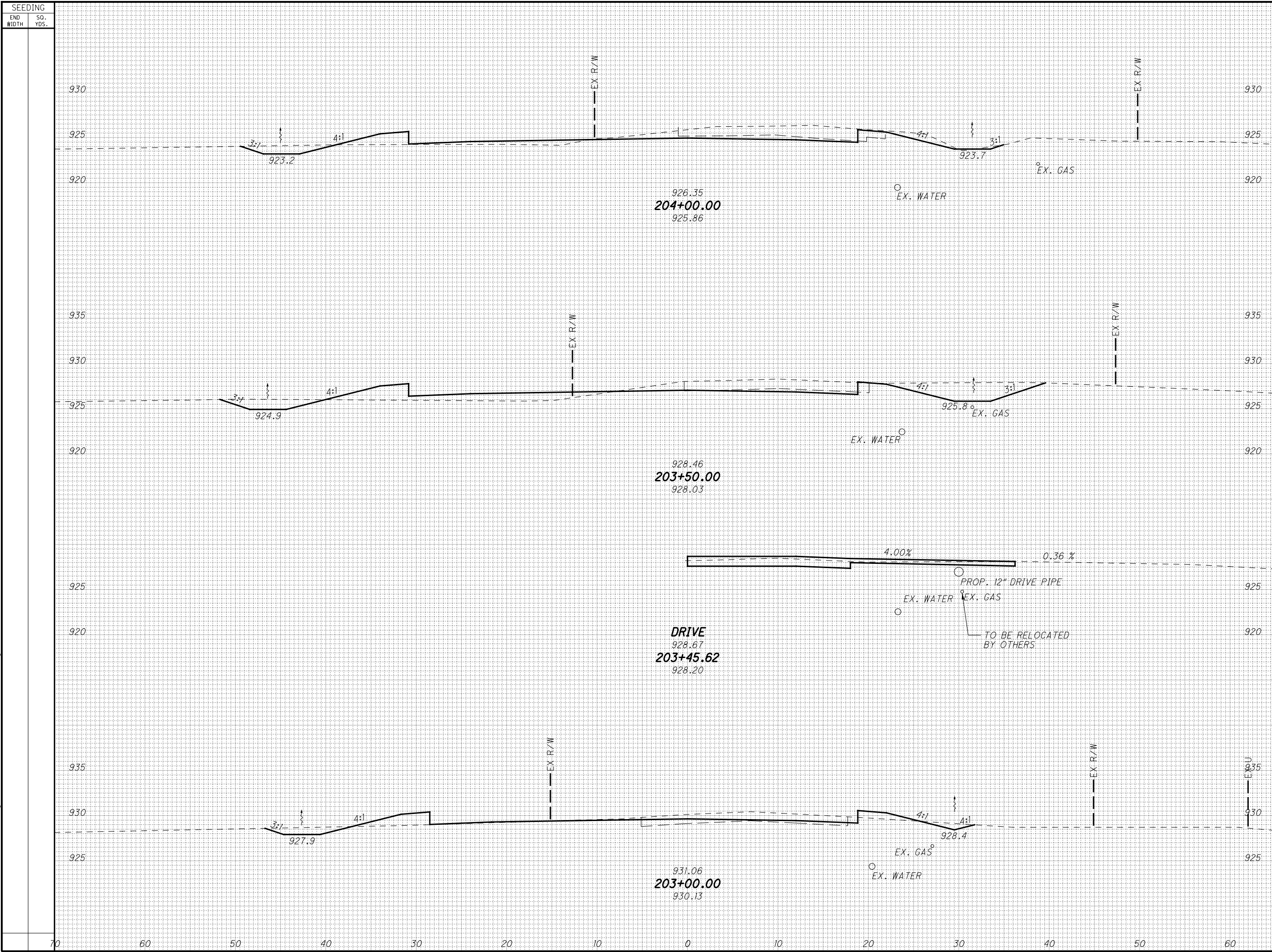
CROSS SECTIONS - THORNWOOD
STA. 201+50.00 TO STA. 202+64.47

LIC-THORNWOOD

226
288



IP_PWP:dms08268\78116\S001.dgn 28-JUL-2010 9:32AM rgreenland



SEEDING		END AREA		VOLUME		CALCULATED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	MMB	JEL

CROSS SECTIONS - THORNWOOD
STA. 203+00.00 TO STA. 204+00.00

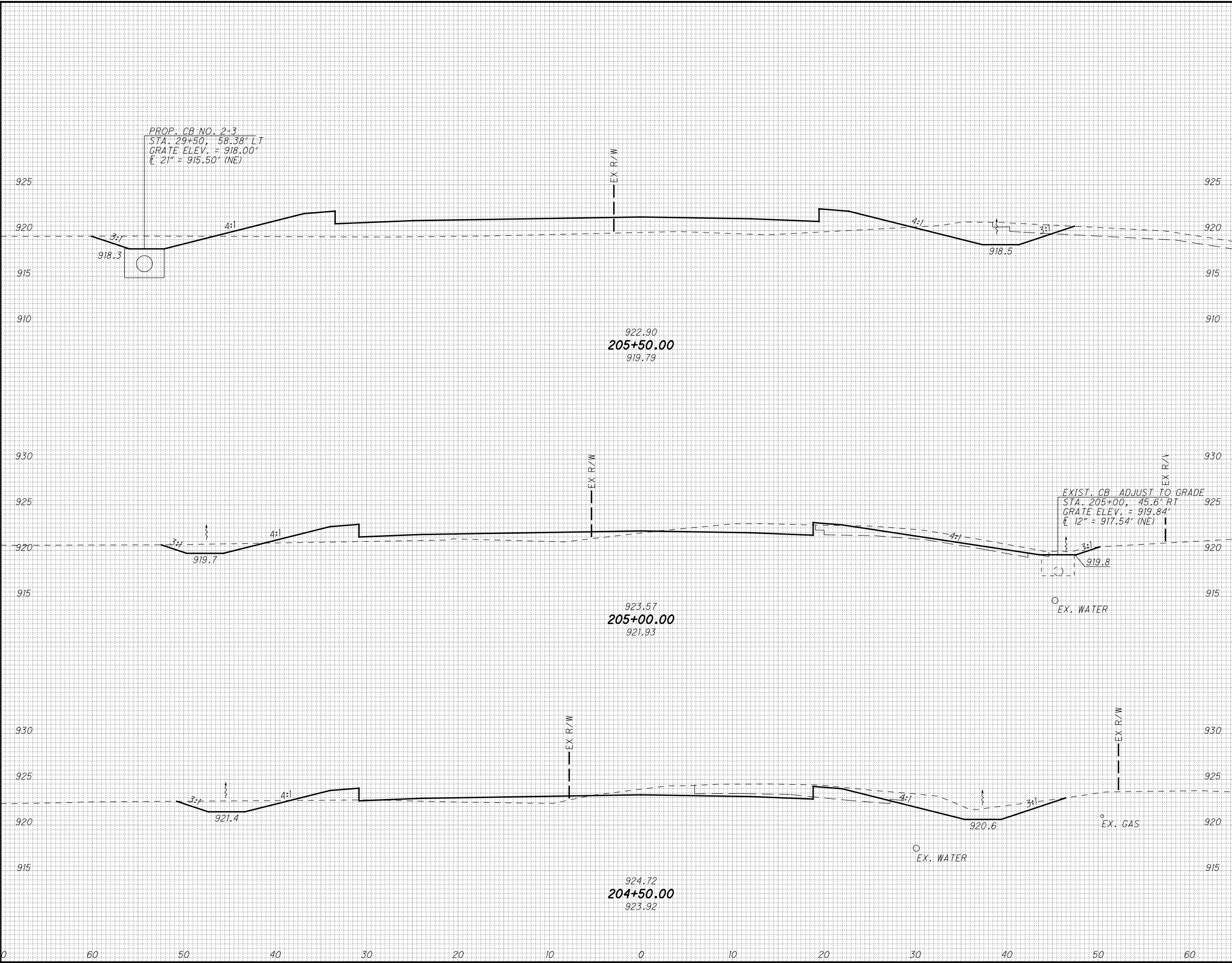
LIC-THORNWOOD

(227)
288

P:\PWP\dms08268\78116X5001.dgn 28-JUL-2010 9:32AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - THORNWOOD
STA. 204+50.00 TO STA. 205+50.00

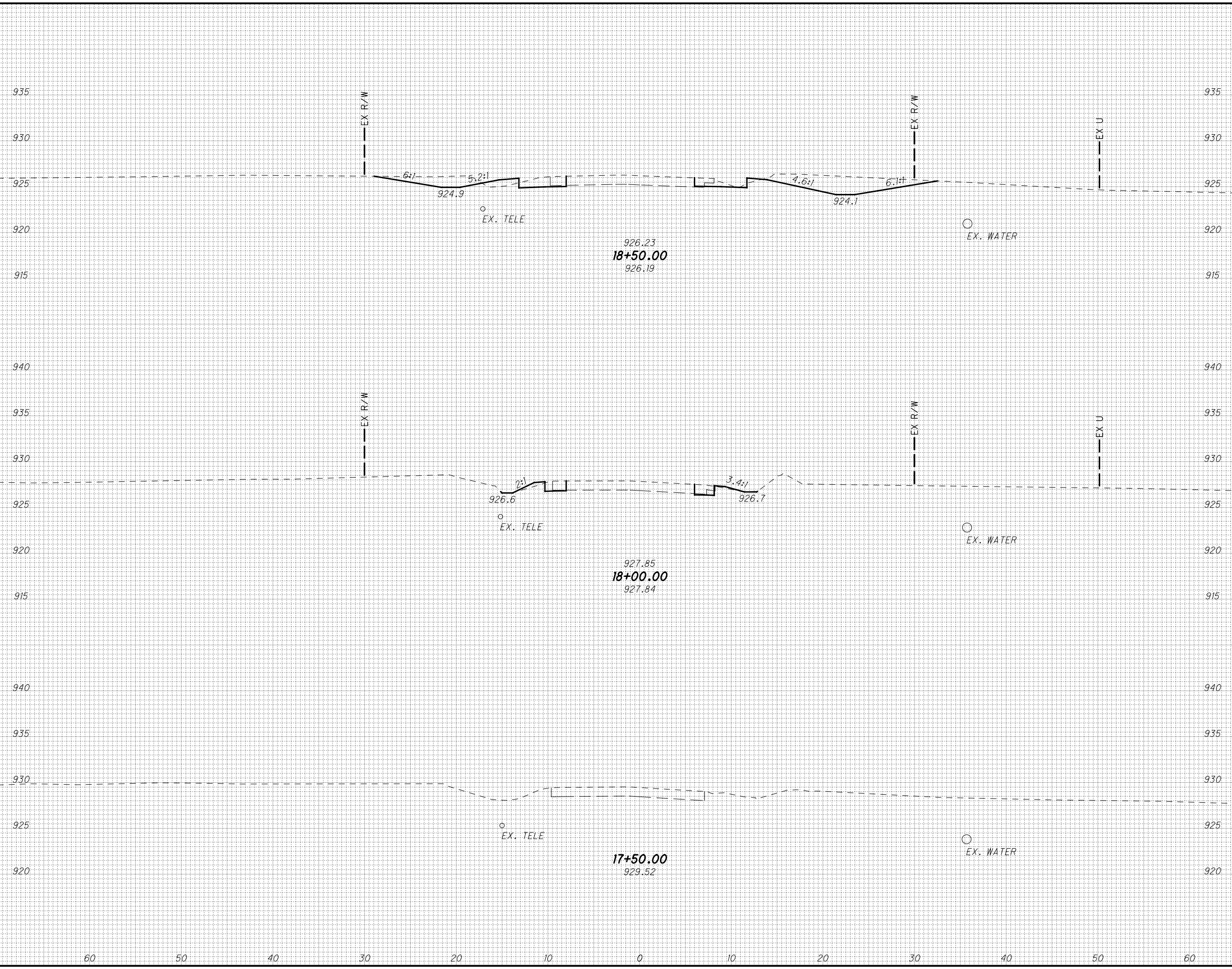
LIC-THORNWOOD

228
288

P:\PWP\dms08268\78116\X5009.DGN 28-JUL-2010 9:54 AM rgreenland

SEEDING

END WIDTH	SO. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
CEL	JEL

CROSS SECTIONS - SEMINARY ROAD
STA. 17+50.00 TO STA. 18+50.00

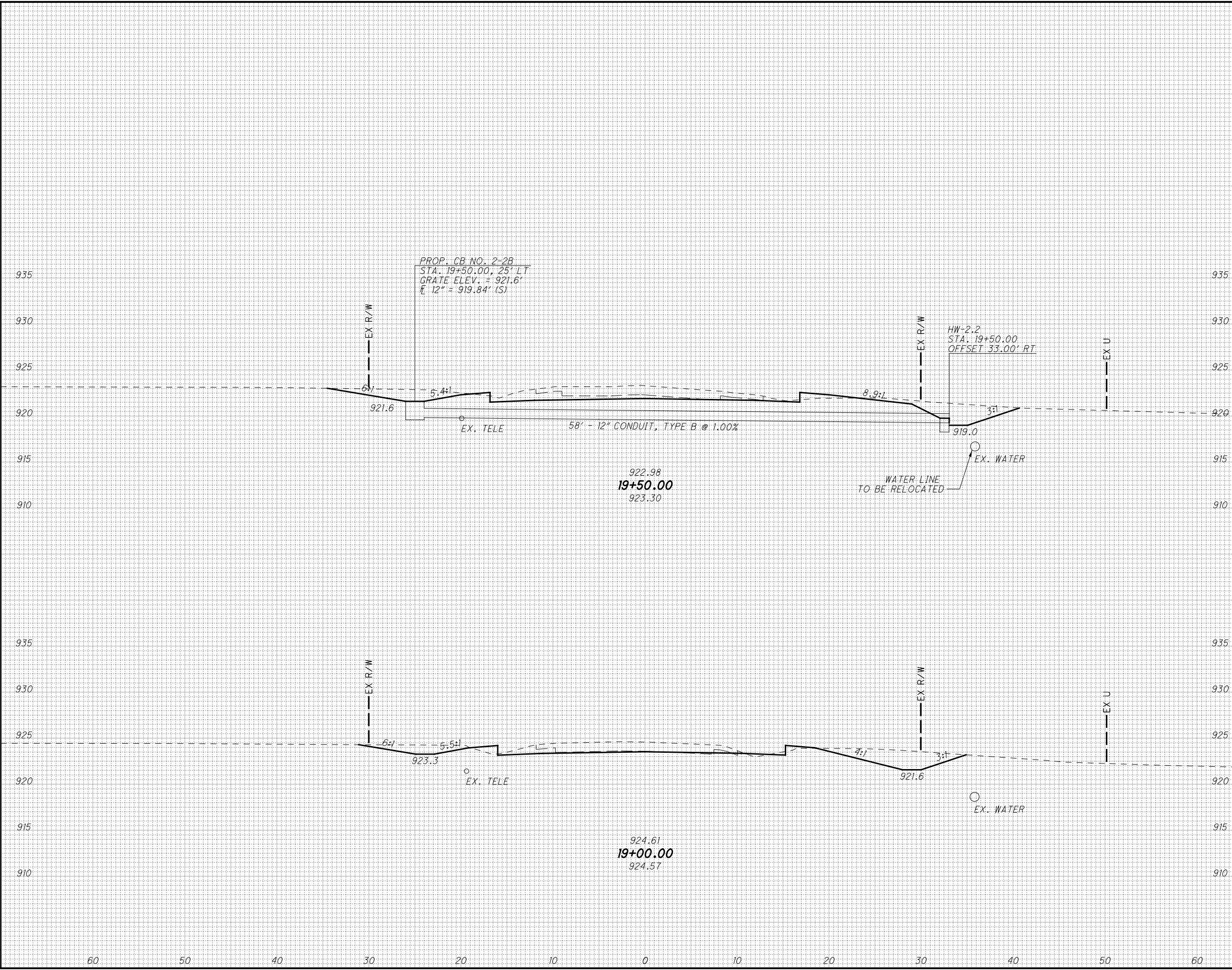
LIC-THORNWOOD

229
288

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED	CEL	CHECKED	JEL
CUT	FILL	CUT	FILL				



CROSS SECTIONS - SEMINARY ROAD
 STA. 19+00.00 TO STA. 19+50.00

LIC-THORNWOOD

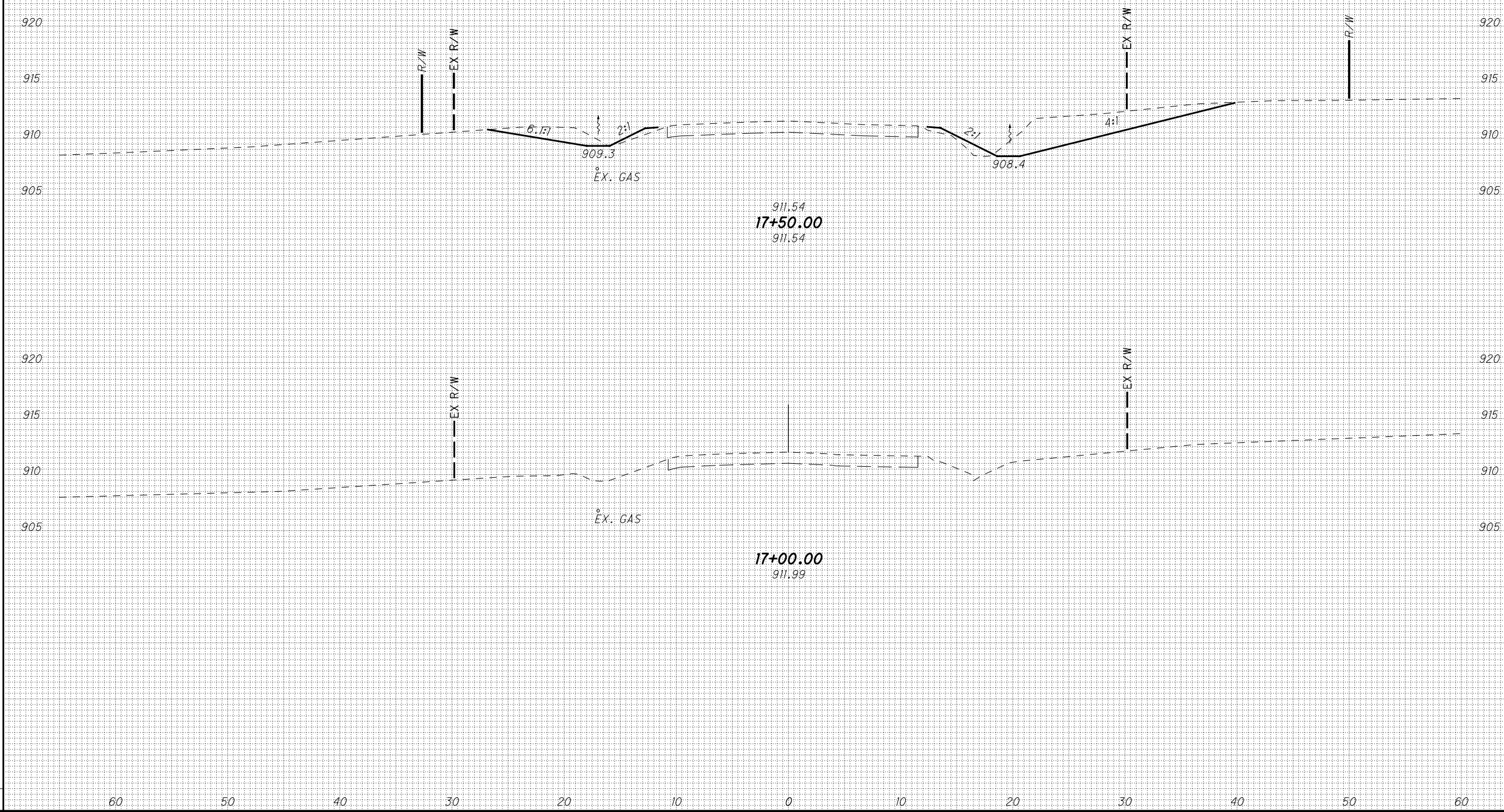
230
288

P:\PWP\dms08268\78116XS005.DGN 28-JUL-2010 9:55AM rgreenland

SEEDING

END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - LEES
STA. 17+00.00 TO STA. 17+50.00

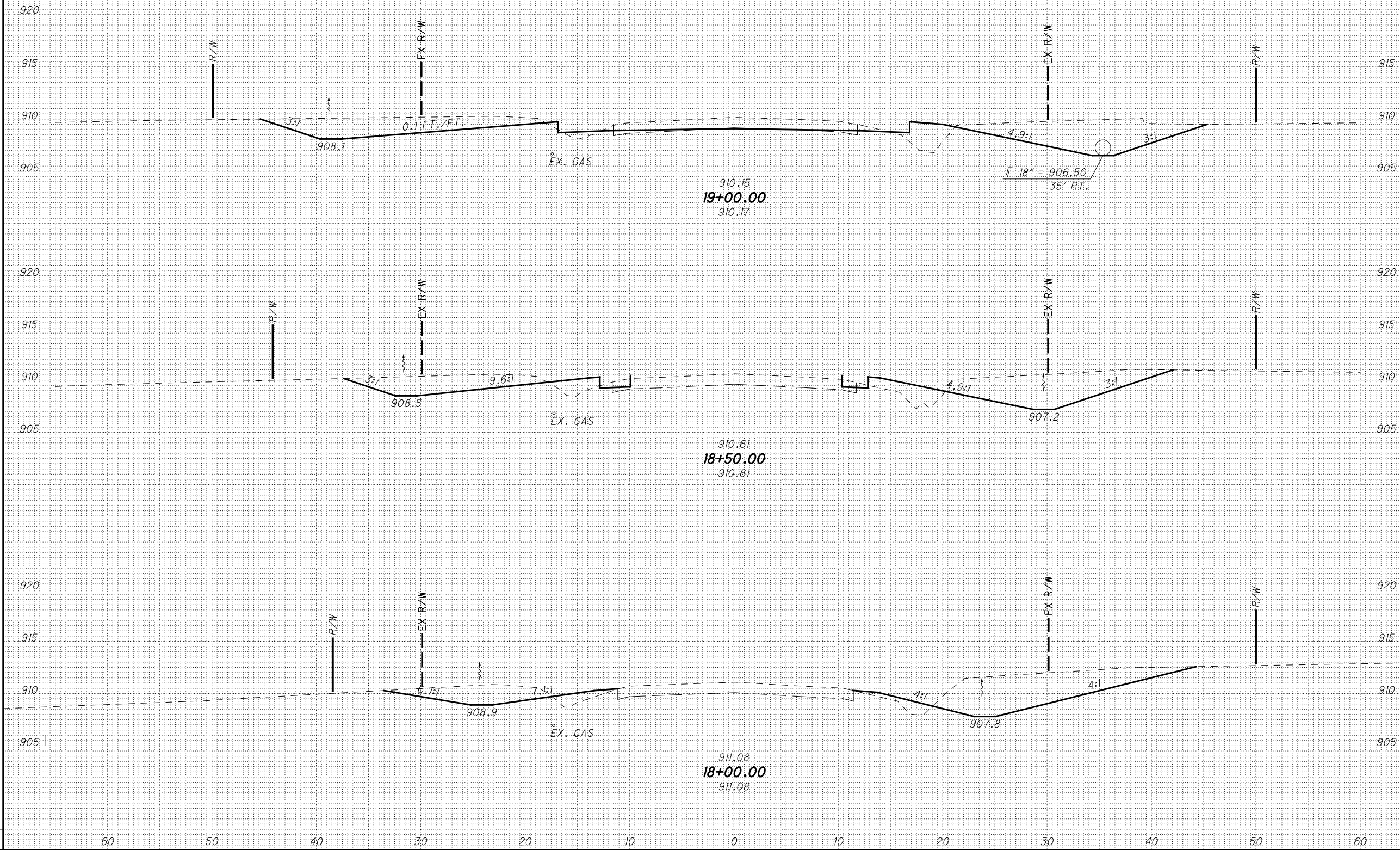
LIC-THORNWOOD

231
288

P:\PWP\dms08268\78116XS005.DGN 28-JUL-2010 9:55AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - LEES
STA. 18+00.00 TO STA. 19+00.00

LIC-THORNWOOD

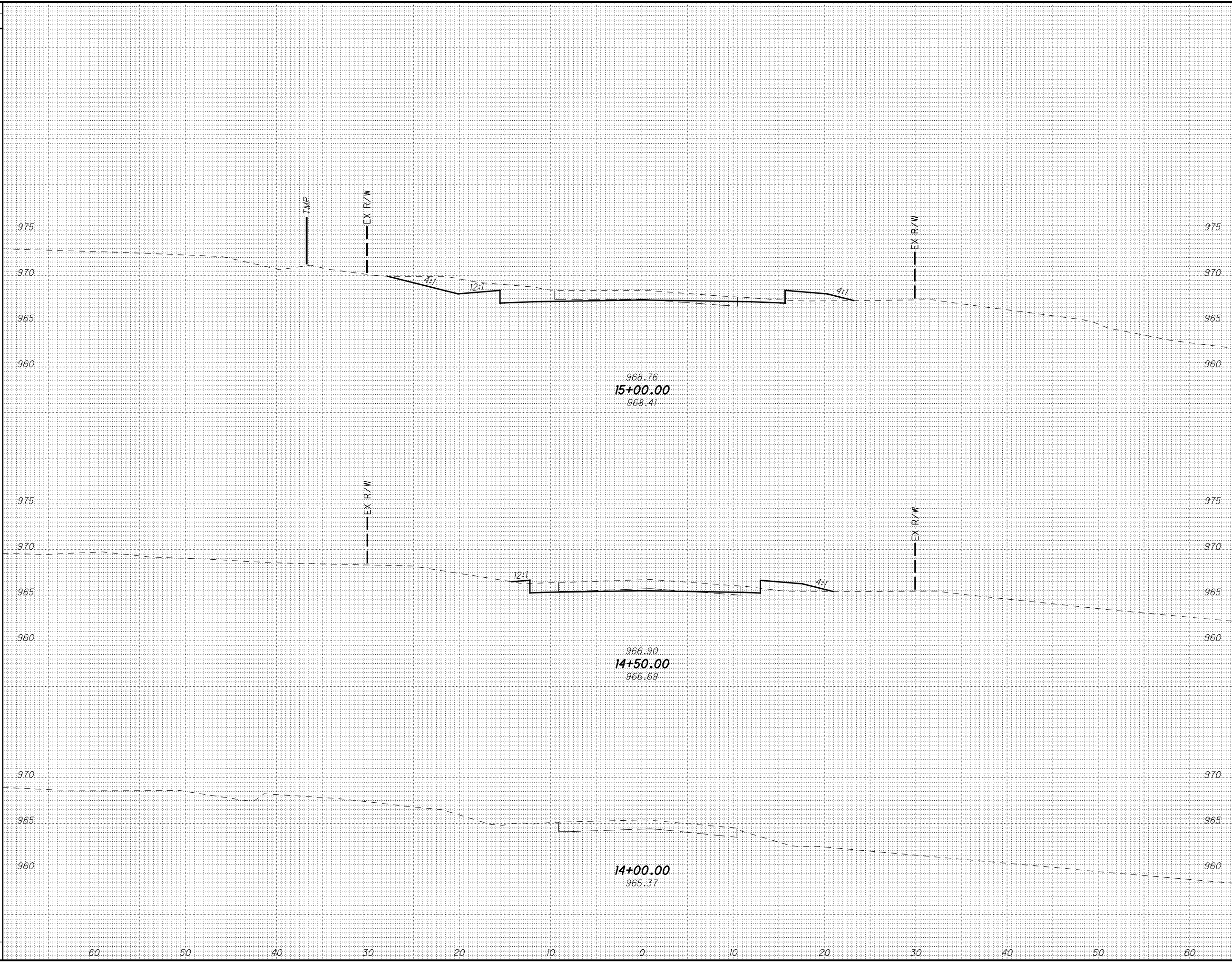
232
288

IP_PWP:dms08268\78116X5004.DGN 28-JUL-2010 9:55AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CROSS SECTIONS - JAMES / WEST MAIN
STA. 14+00.00 TO STA. 15+00.00

LIC-THORNWOOD

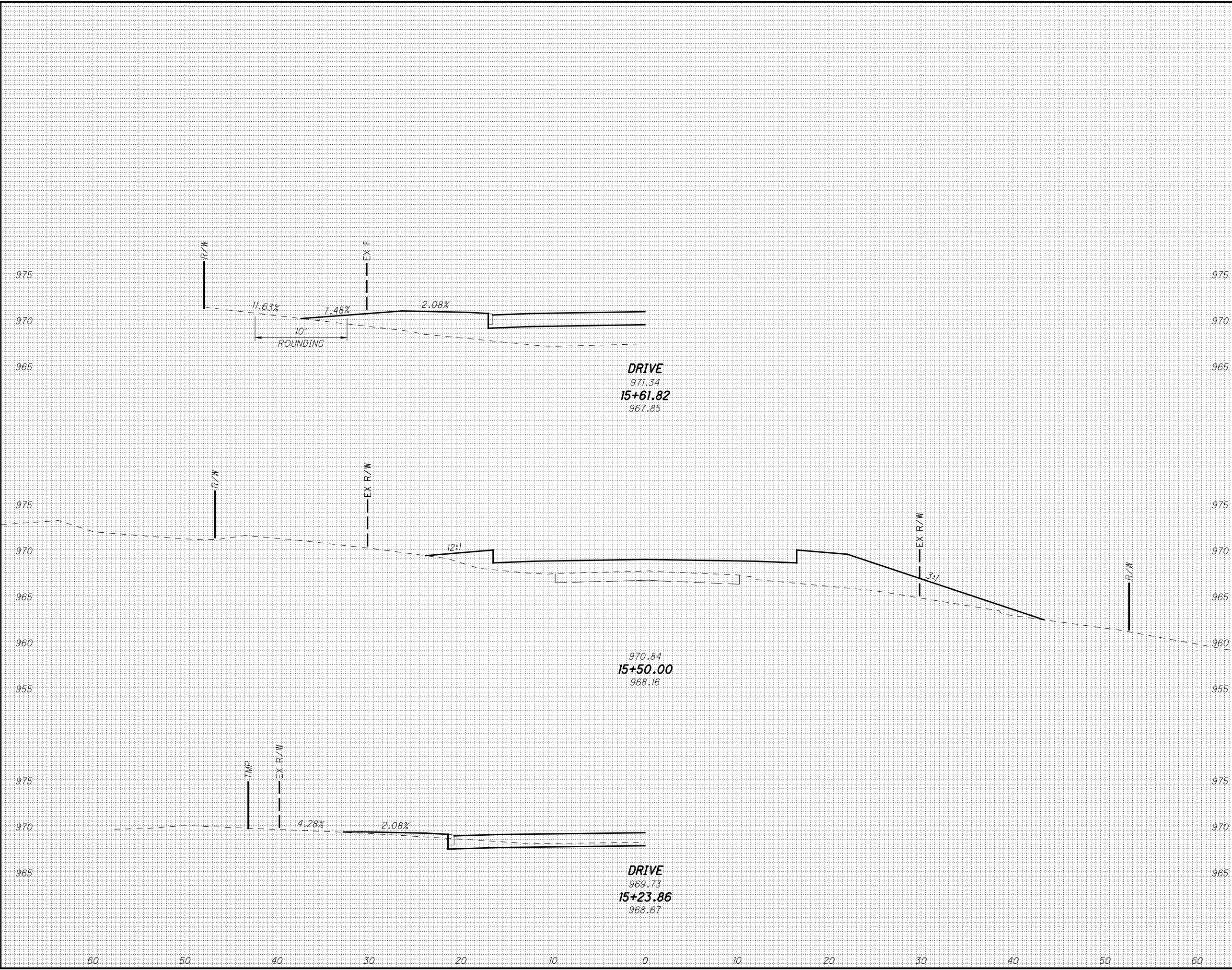
234
288

IP_PWP:dms08268\78116XS004.DGN 28-JUL-2010 9:55AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CROSS SECTIONS - JAMES / WEST MAIN
 STA. 15+23.86 TO STA. 15+61.82

LIC-THORNWOOD

235
288

CALCULATED	MMB	CHECKED	JEL

SEEDING

END WIDTH	SQ. YDS.		
		CUT	FILL

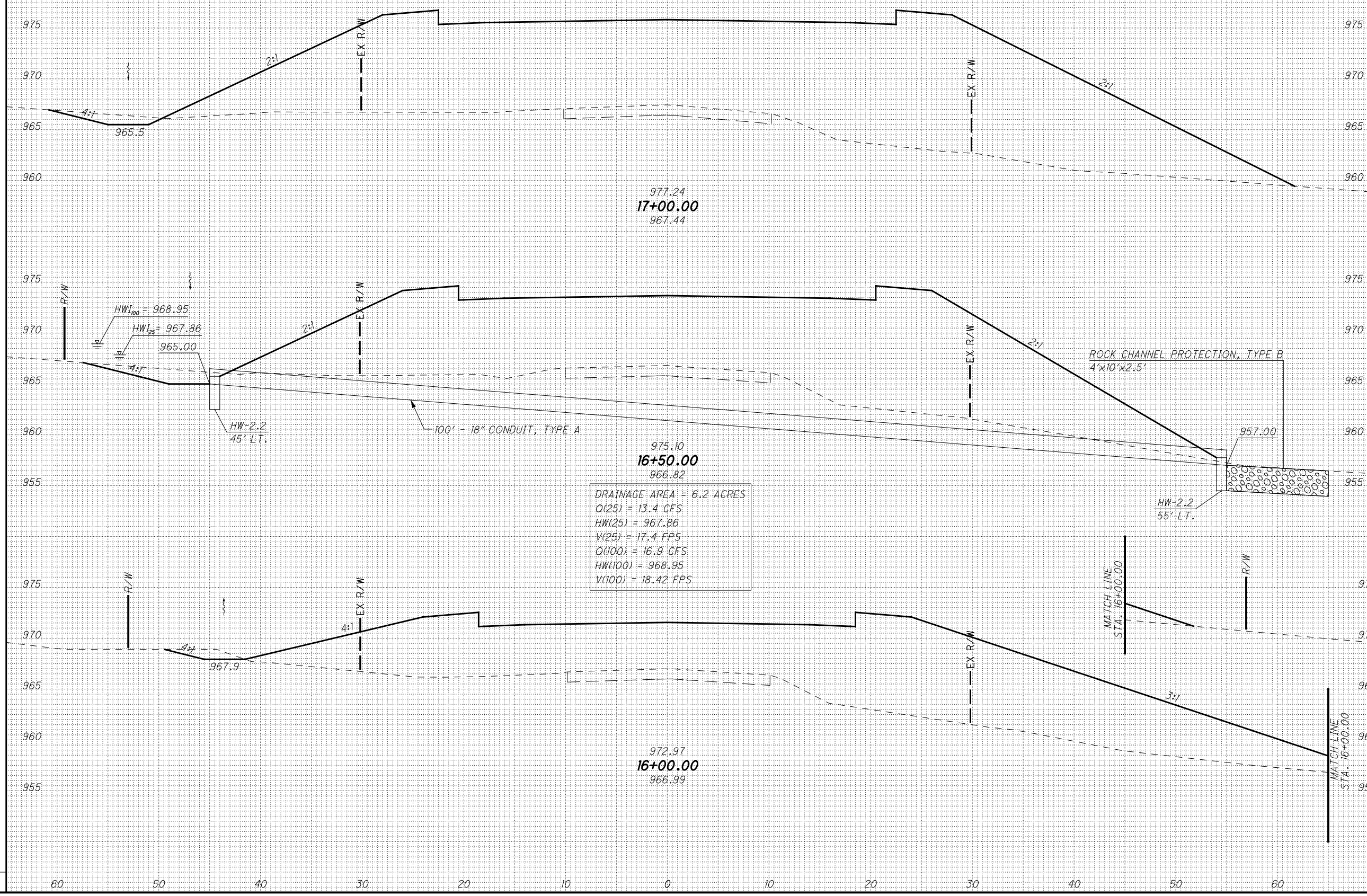
END AREA

CUT	FILL	VOLUME	
		CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - JAMES / WEST MAIN
STA. 16+00.00 TO STA. 17+00.00

LIC-THORNWOOD

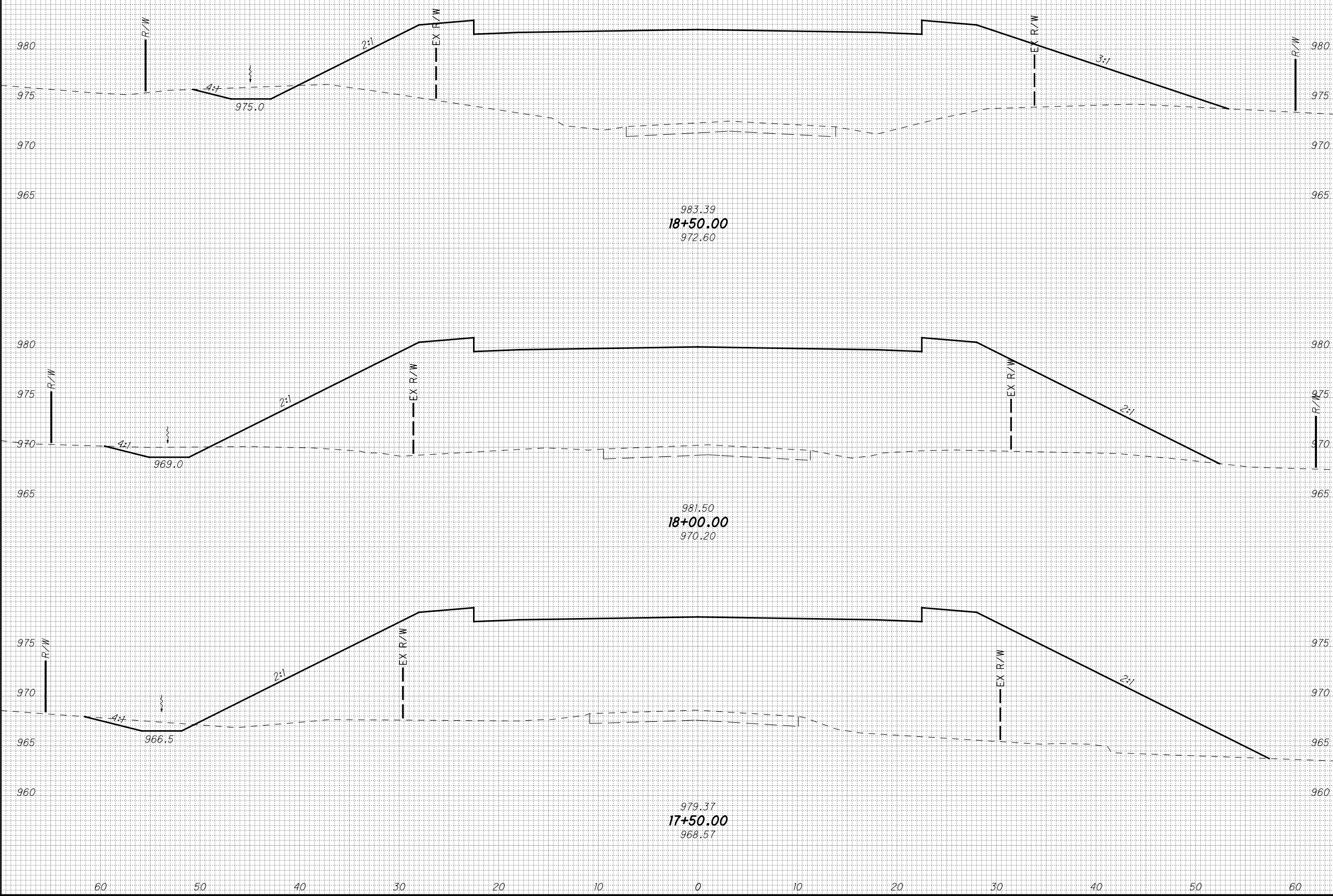


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SEEDING

END WIDTH	SQ. YDS.		
		CUT	FILL

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CROSS SECTIONS - JAMES / WEST MAIN
STA. 17+50.00 TO STA. 18+50.00

LIC-THORNWOOD

237
288

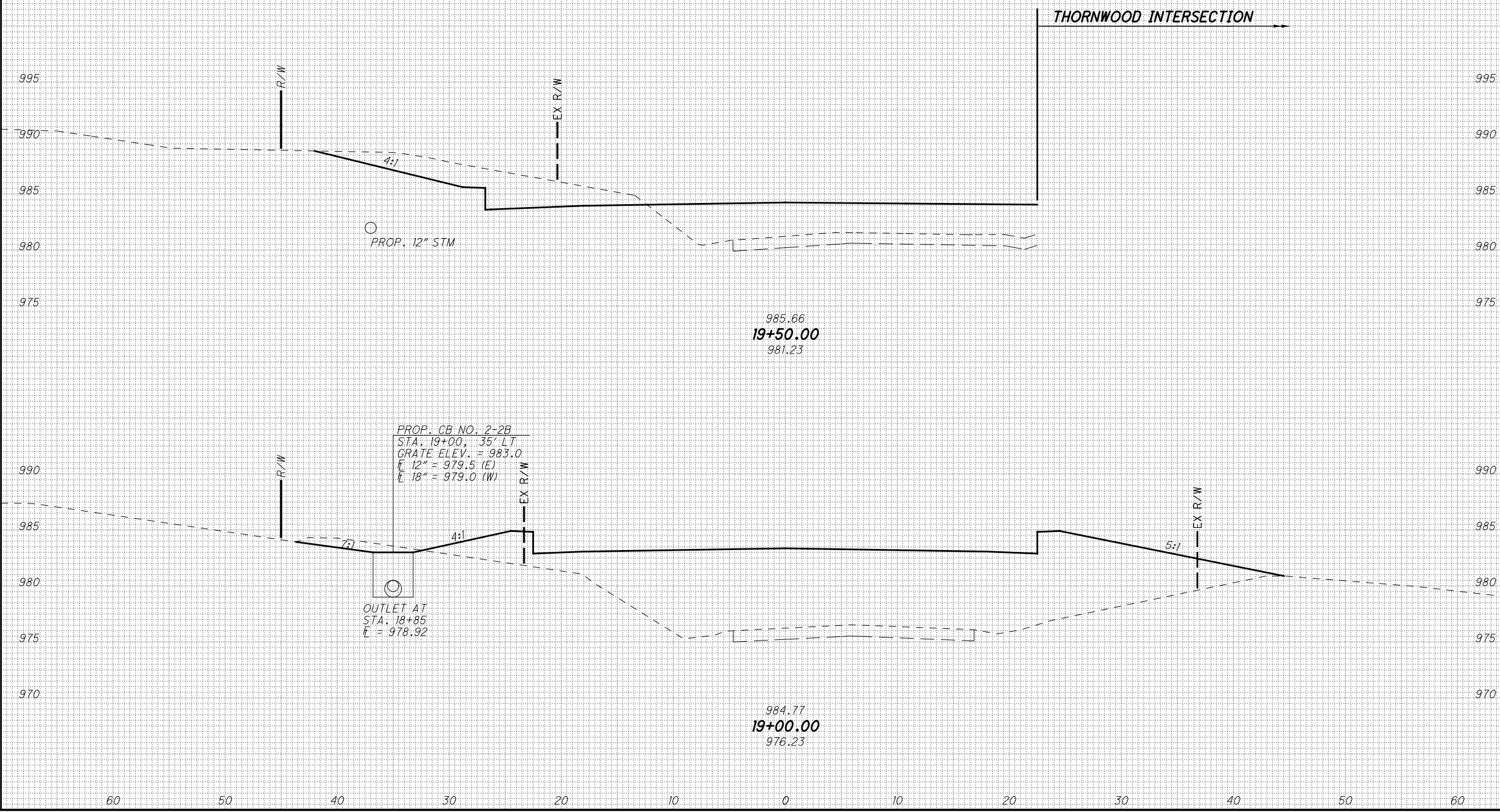
CALCULATED
MMB
CHECKED
JEL

IP_PWP:dms08268\78116XS004.DGN 28-JUL-2010 9:56AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CROSS SECTIONS - JAMES / WEST MAIN
STA. 19+00.00 TO STA. 19+50.00

LIC-THORNWOOD

238
288

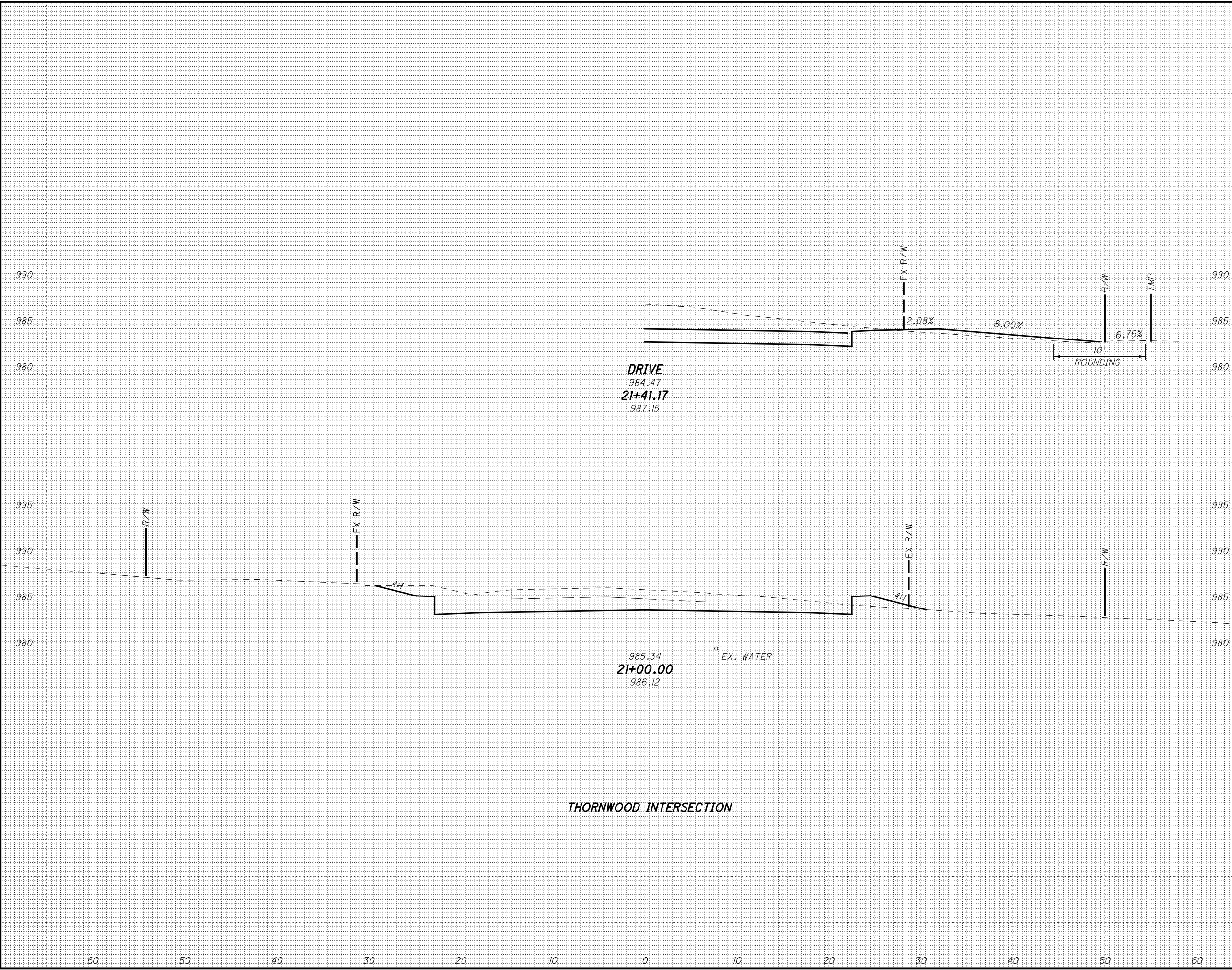
CALCULATED
MMB
CHECKED
JEL

IP_PWP:dms08268\78116X5004.DGN 28-JUL-2010 9:56AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CROSS SECTIONS - JAMES / WEST MAIN
 STA. 21+00.00 TO STA. 21+41.17

LIC-THORNWOOD

239
288

60 50 40 30 20 10 0 10 20 30 40 50 60

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SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - JAMES / WEST MAIN
STA. 21+50.00 TO STA. 22+00.00

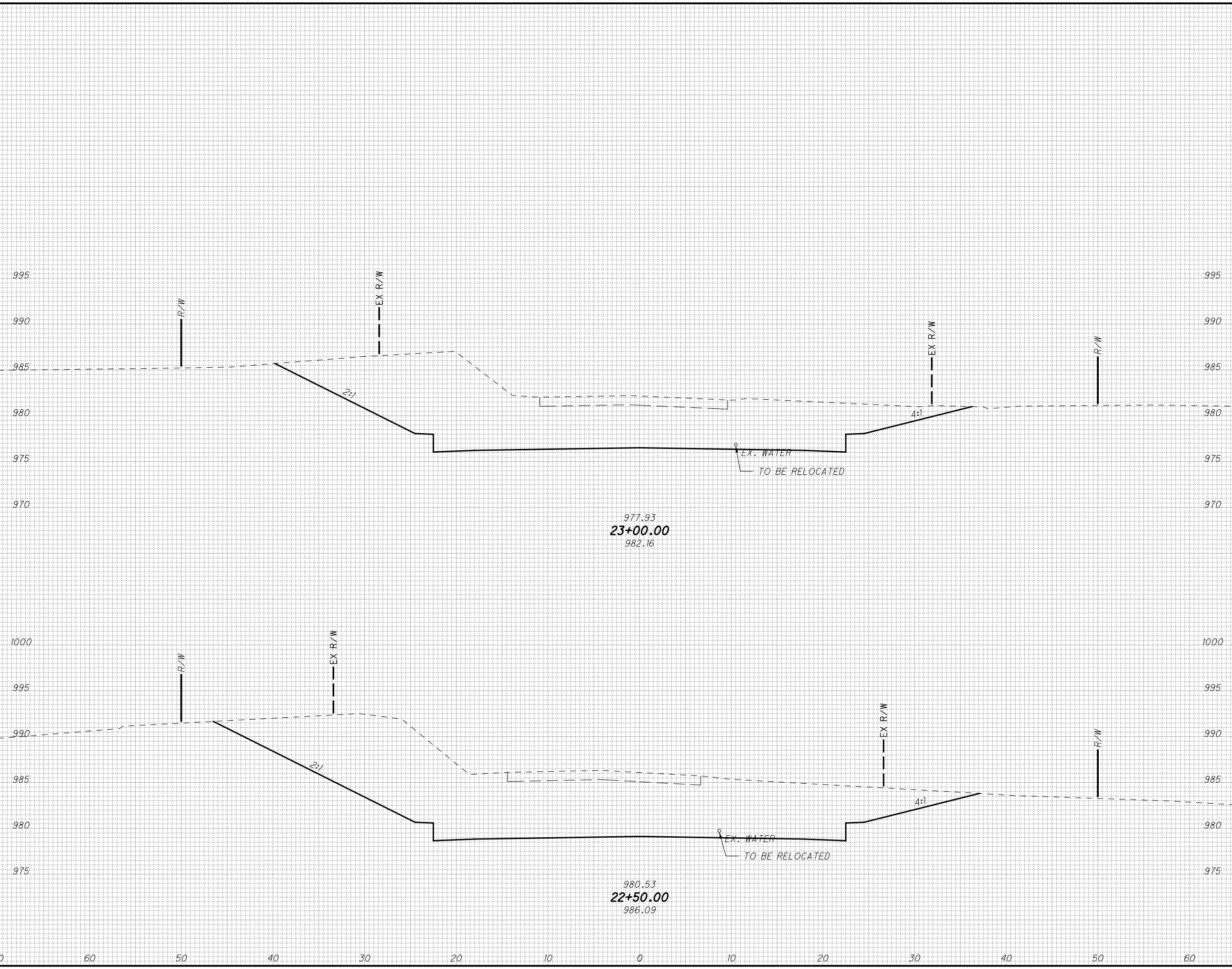
LIC-THORNWOOD

240
288

P:\PWP\dms08268\78116\X5004.DGN 28-JUL-2010 9:56AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - JAMES / WEST MAIN
STA. 22+50.00 TO STA. 23+00.00

LIC-THORNWOOD

241
288

P:\PWP\dms08268\78116X5004.DGN 28-JUL-2010 9:56AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

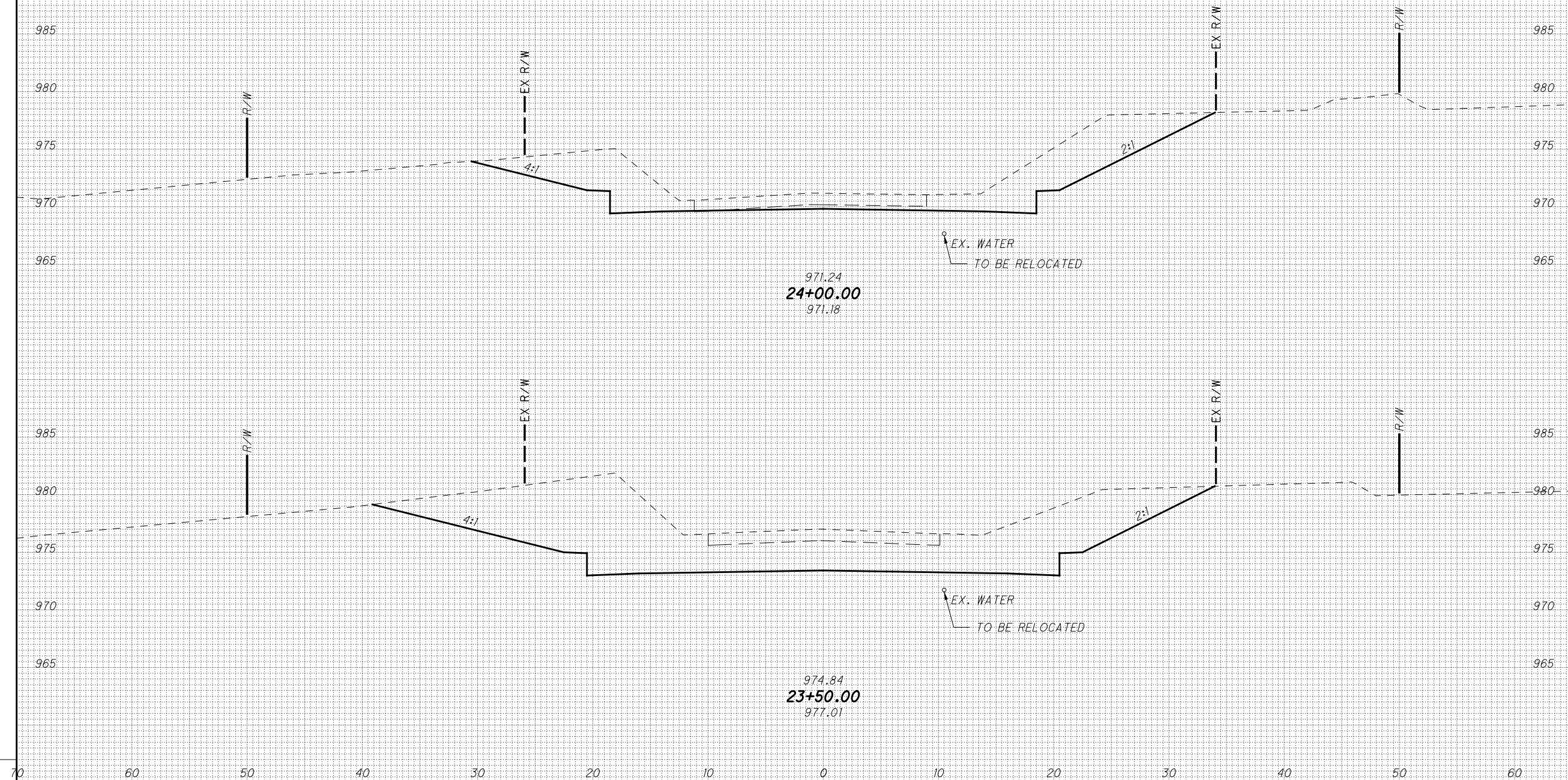
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - JAMES / WEST MAIN
STA. 23+50.00 TO STA. 24+00.00

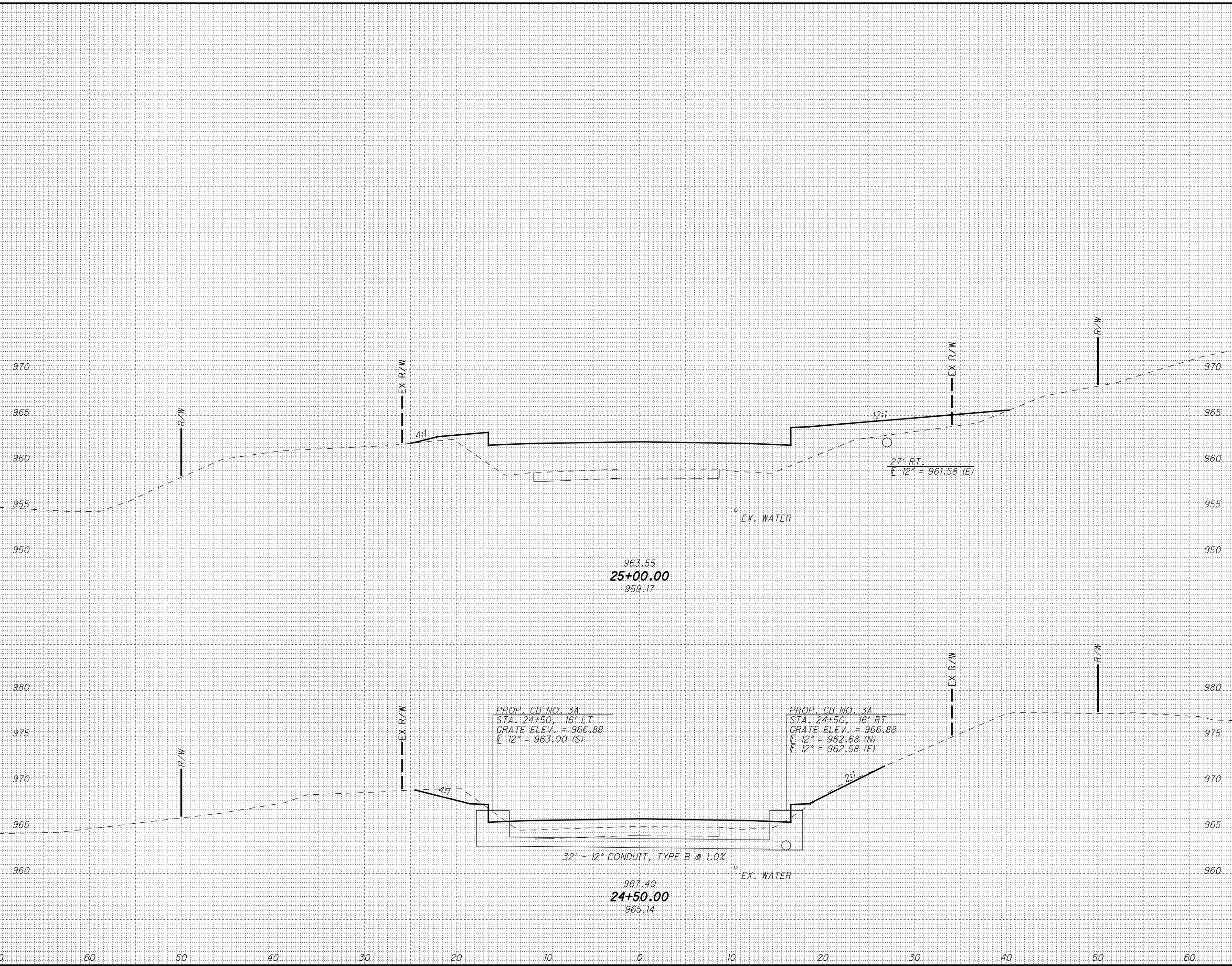
LIC-THORNWOOD

242
288



P:\PWP\dms08268\78116\S004.DGN 28-JUL-2010 9:56AM rgreenland

SEEDING	
END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	
MMB	JEL

CROSS SECTIONS - JAMES / WEST MAIN
 STA. 24+50.00 TO STA. 25+00.00

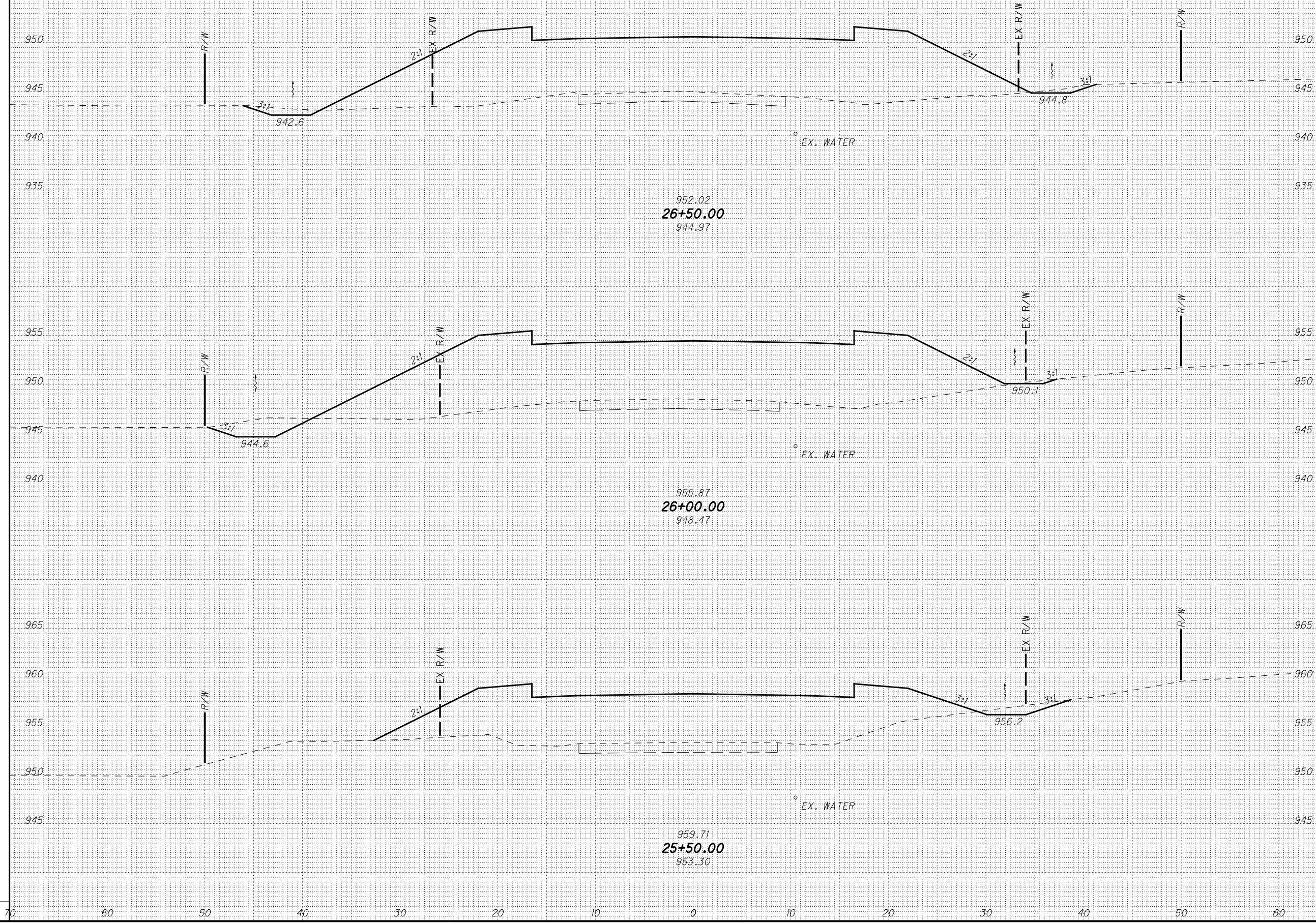
LIC-THORNWOOD

243
288

P:\PWP\dms08268\78116\X5004.DGN 28-JUL-2010 9:57AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL



CROSS SECTIONS - JAMES / WEST MAIN
STA. 25+50.00 TO STA. 26+50.00

LIC-THORNWOOD

244
288

P:\PWP\dms08268\78116XS004.DGN 28-JUL-2010 9:57AM rgreenland

SEEDING
END WIDTH SQ. YDS.

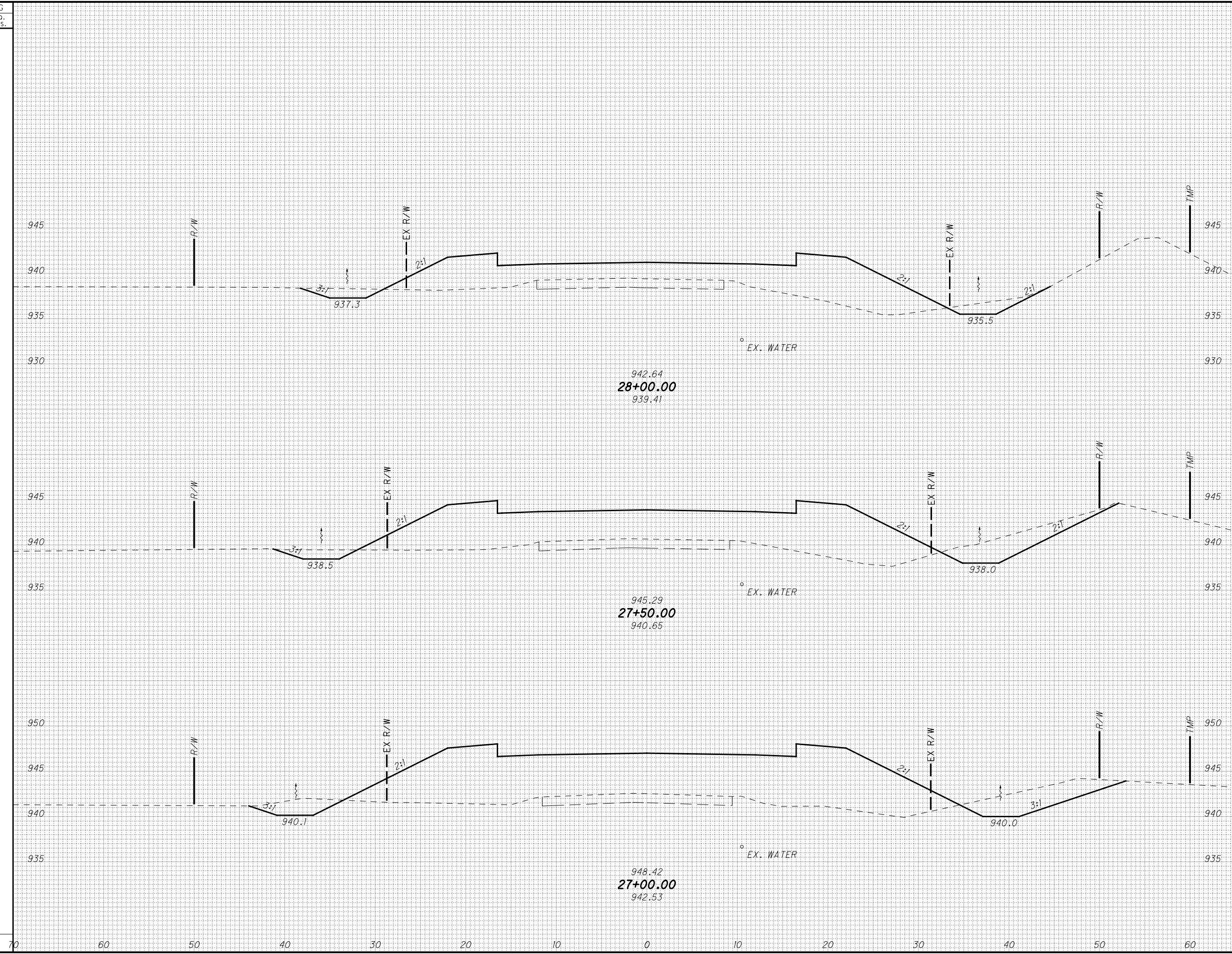
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

CROSS SECTIONS - JAMES / WEST MAIN
STA. 27+00.00 TO STA. 28+00.00

LIC-THORNWOOD

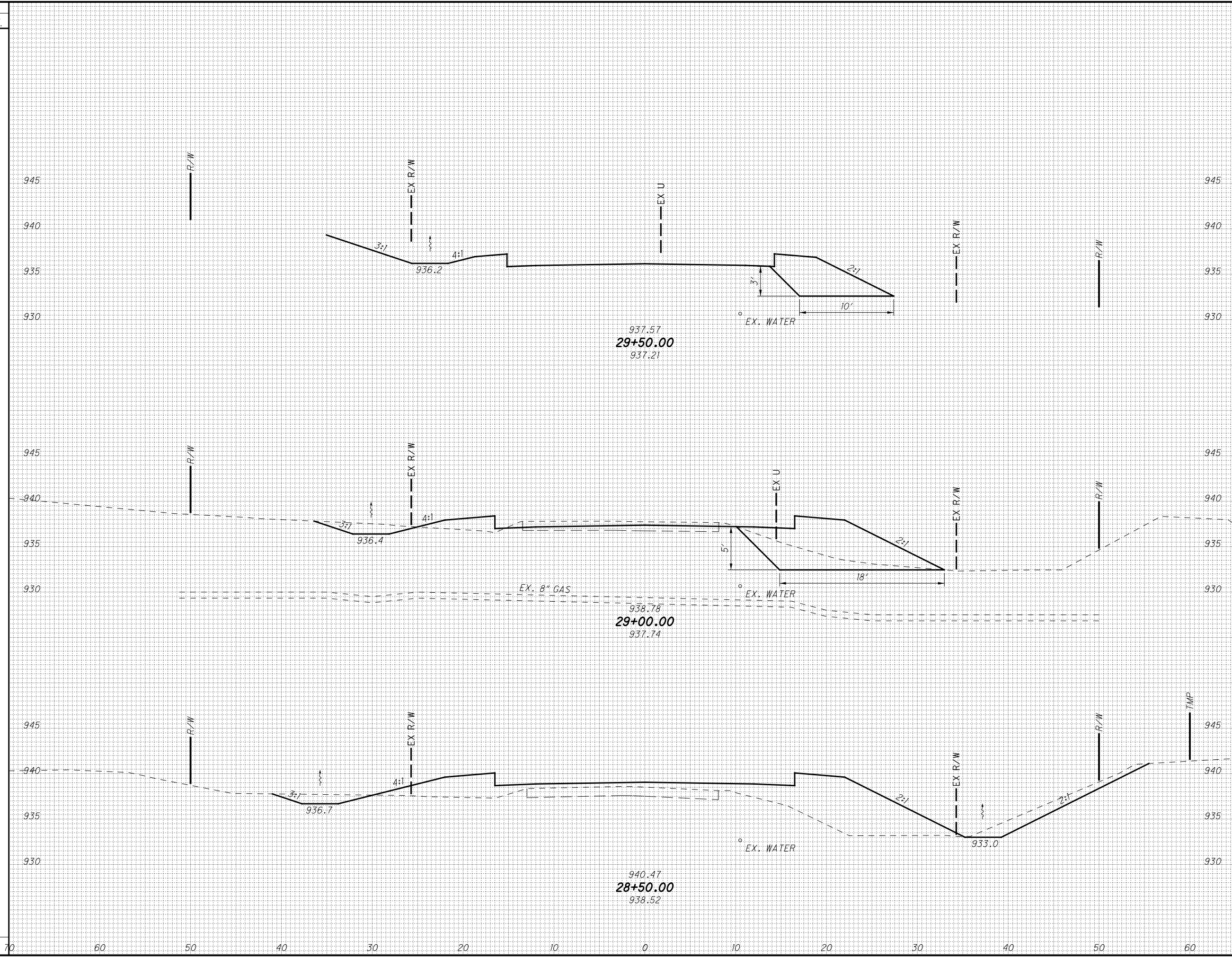
245
288



P:\PWP\dms08268\78116XS004.DGN 28-JUL-2010 9:57AM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED	MMB	CHECKED	JEL
CUT	FILL	CUT	FILL				

CROSS SECTIONS - JAMES / WEST MAIN
STA. 28+50.00 TO STA. 29+50.00

LIC-THORNWOOD

246
288

P:\PWP\dms08268\78116XS004.DGN 28-JUL-2010 9:57AM rgreenland

SEEDING

END WIDTH	SO. YDS.

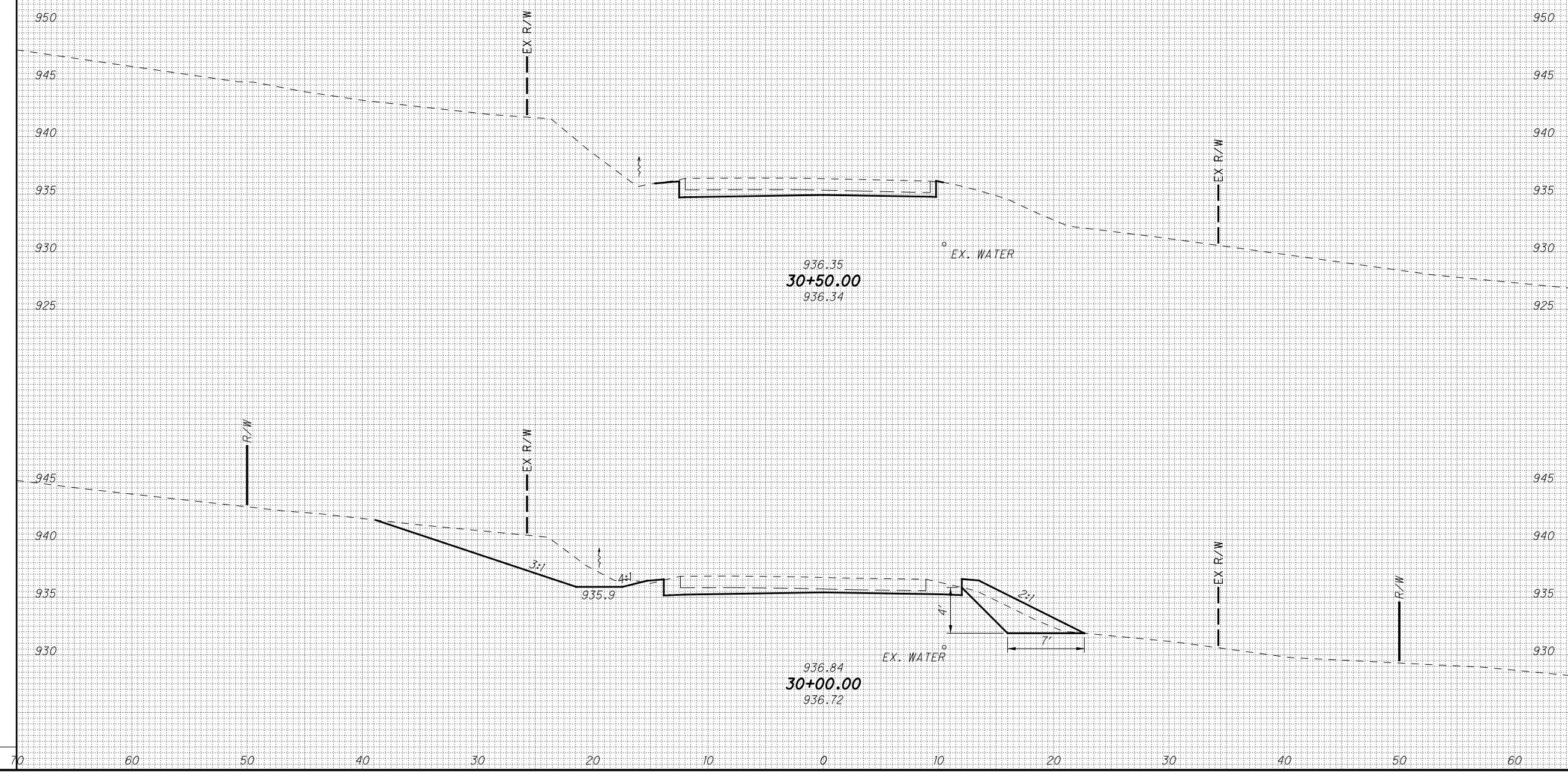
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
MMB	RAT

CROSS SECTIONS - JAMES / WEST MAIN
STA. 30+00.00 TO STA. 30+50.00

LIC-THORNWOOD

247
288



P:\PWP\dms08268\78116\5004.DGN 28-JUL-2010 9:57AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

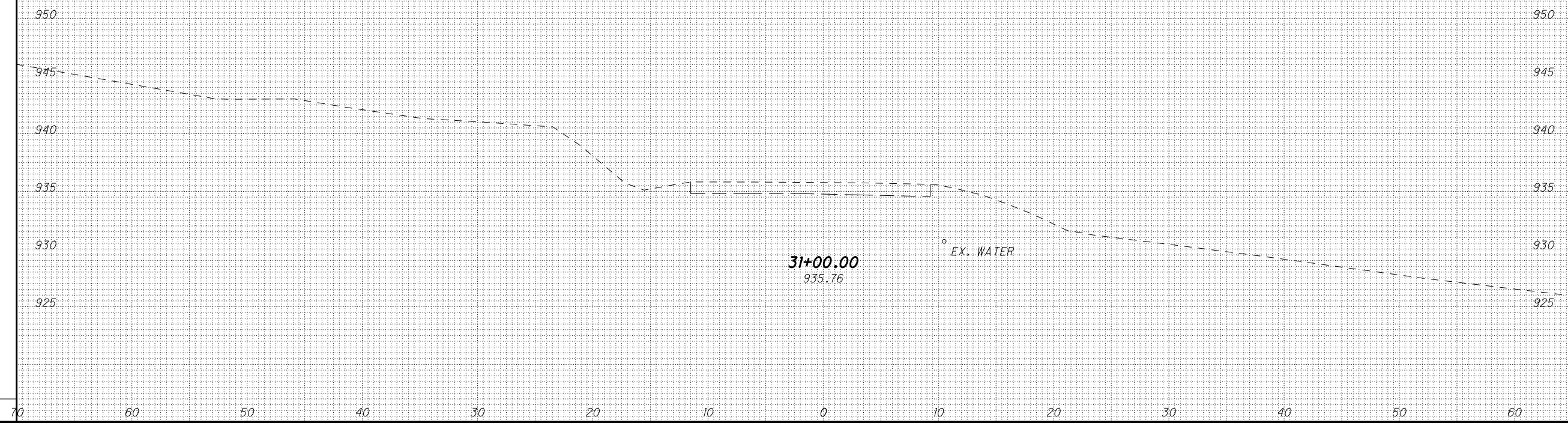
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	MMB	CHECKED	JEL

CROSS SECTIONS - JAMES / WEST MAIN
STA. 31+00.00 TO STA. 31+00.00

LIC-THORNWOOD

248
288



P:\PWP\dms08268\78116\5003.DGN 28-JUL-2010 9:57AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED RAT	CHECKED JEL

CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 19+50.00 TO STA. 20+45.97

LIC-THORNWOOD

249
288



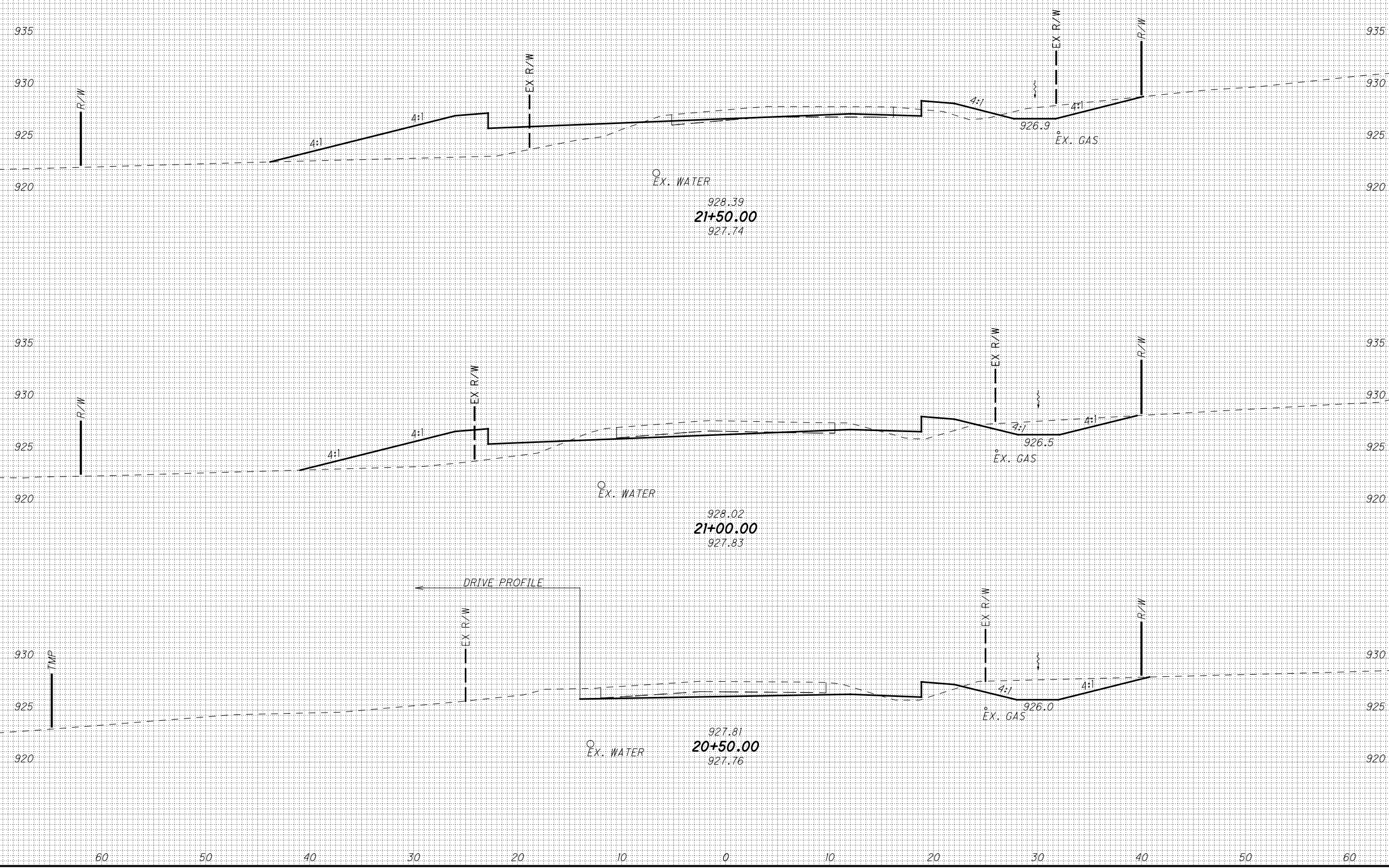
P:\PWP\dms08268\78116\5003.DGN 28-JUL-2010 9:57AM rgreenland

SEEDING

END WIDTH	SO. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED RAT	CHECKED JEL



**CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 20+50.00 TO STA. 21+50.00**

LIC-THORNTONWOOD

250
288

P:\PWP\dms08268\78116\5003.DGN 28-JUL-2010 9:58AM rgreenland

SEEDING

END WIDTH	SO. YDS.

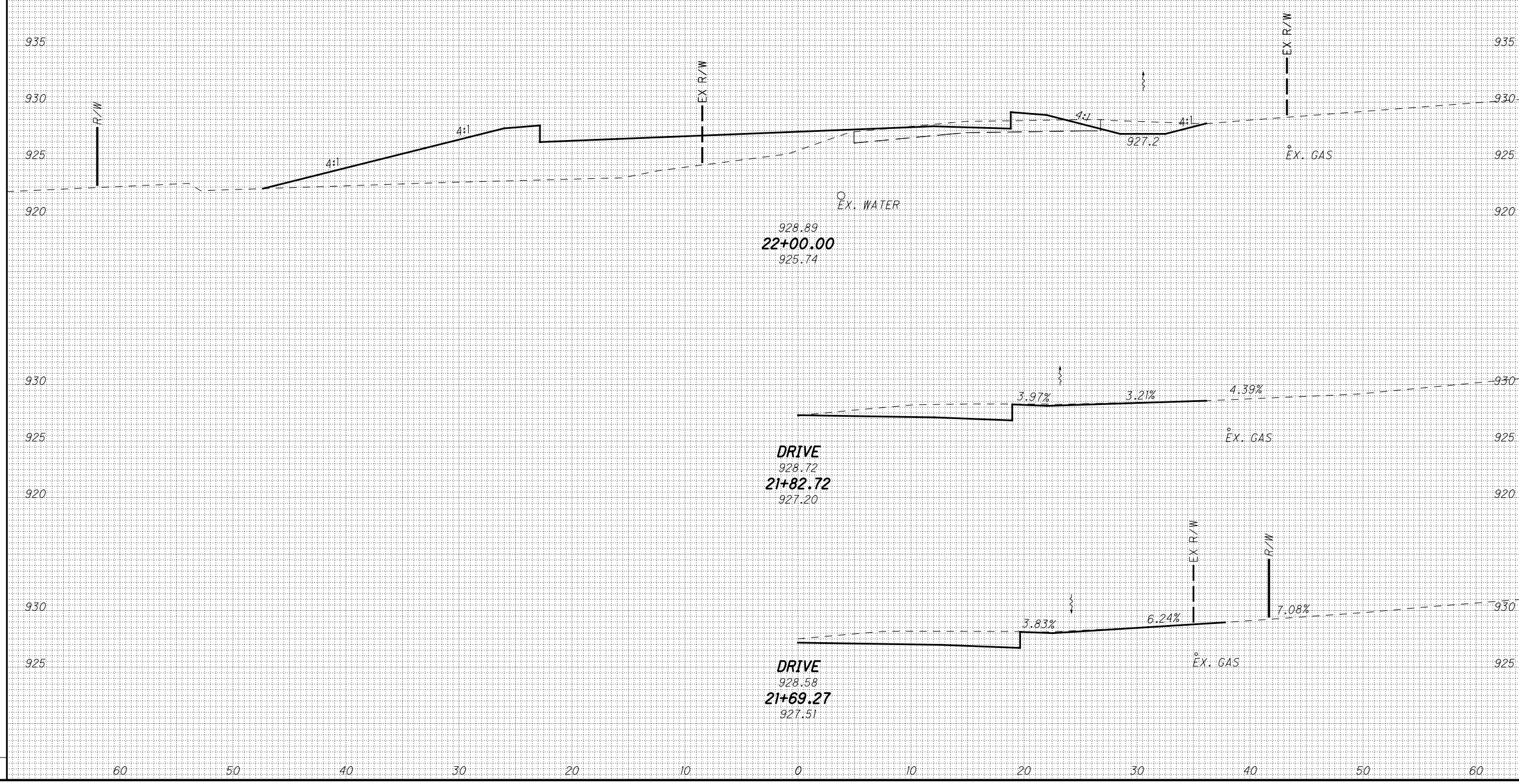
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED RAT	CHECKED JEL

CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 21+69.27 TO STA. 22+00.00

LIC-THORNWOOD

251
288



P:\PWP\dms08268\78116\S003.DGN 28-JUL-2010 9:58AM rgreenland

SEEDING

END WIDTH	SQ. YDS.		
		CUT	FILL

END AREA

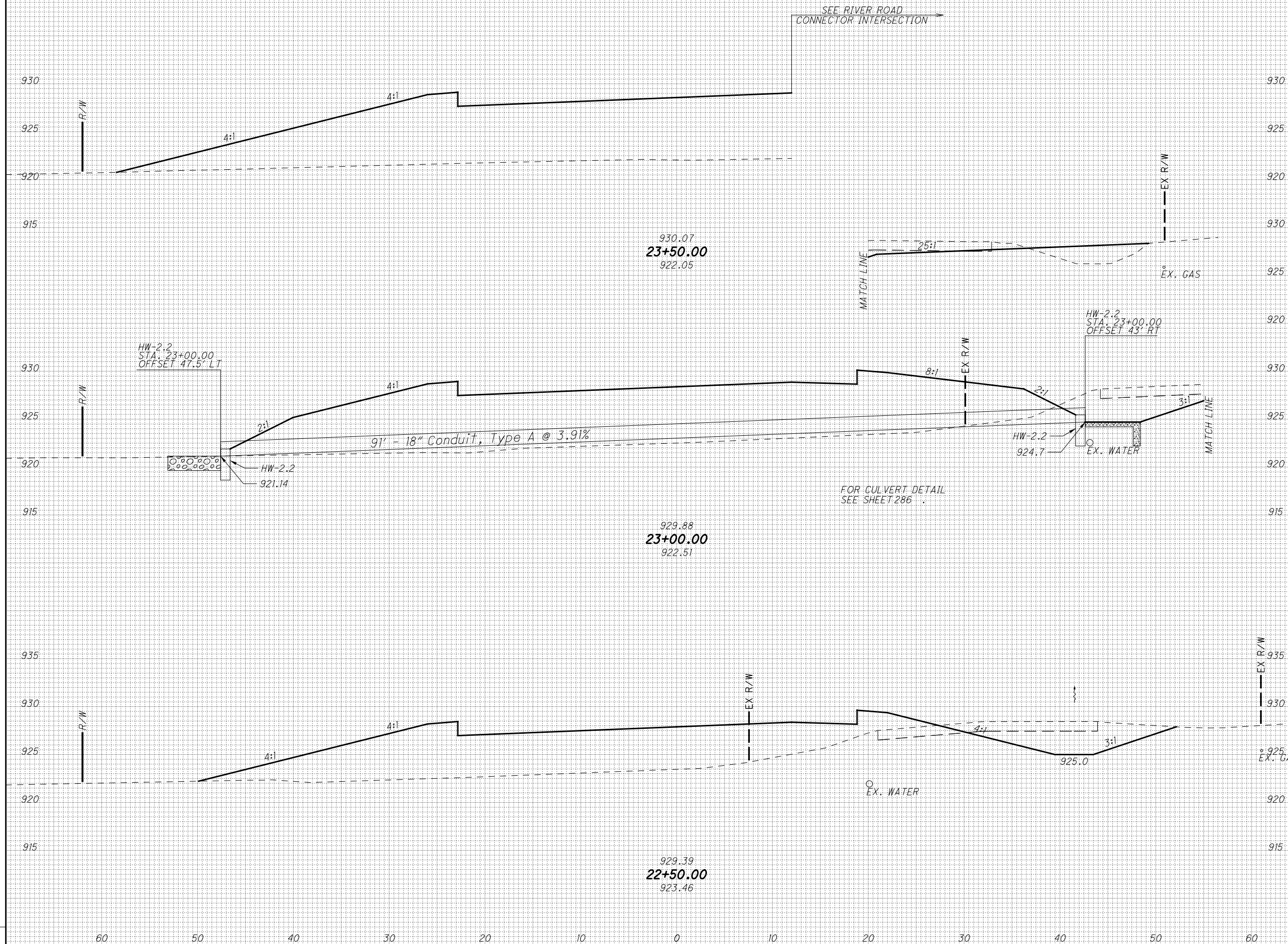
CUT	FILL	VOLUME	
		CUT	FILL

CALCULATED	RAT	CHECKED	JEL

CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 22+50.00 TO STA. 23+50.00

LIC-THORNWOOD

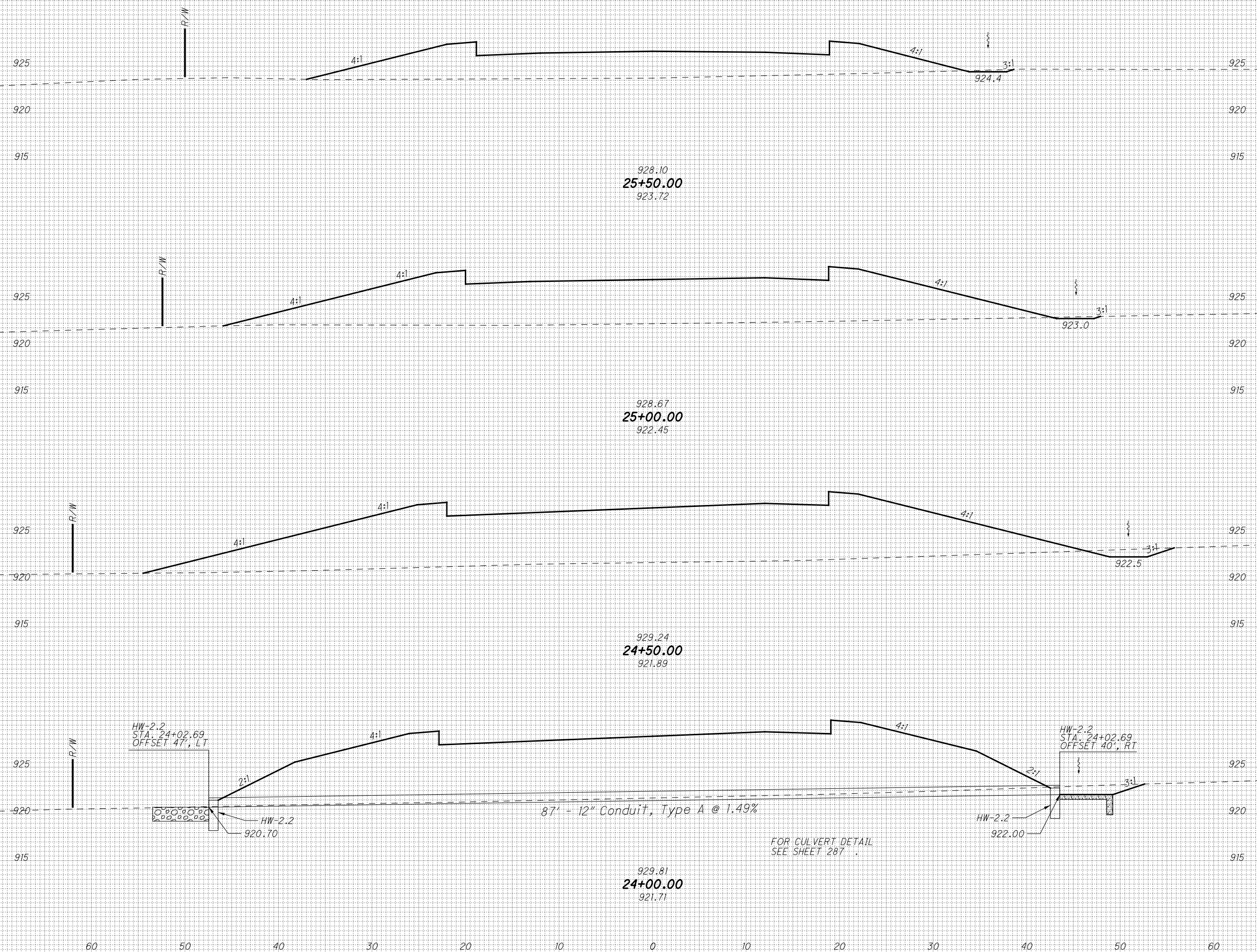
252
288



P:\PWP\dms08268\78116\S003.DGN 28-JUL-2010 9:58AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED RAT CHECKED JEL



CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 24+00.00 TO STA. 25+50.00

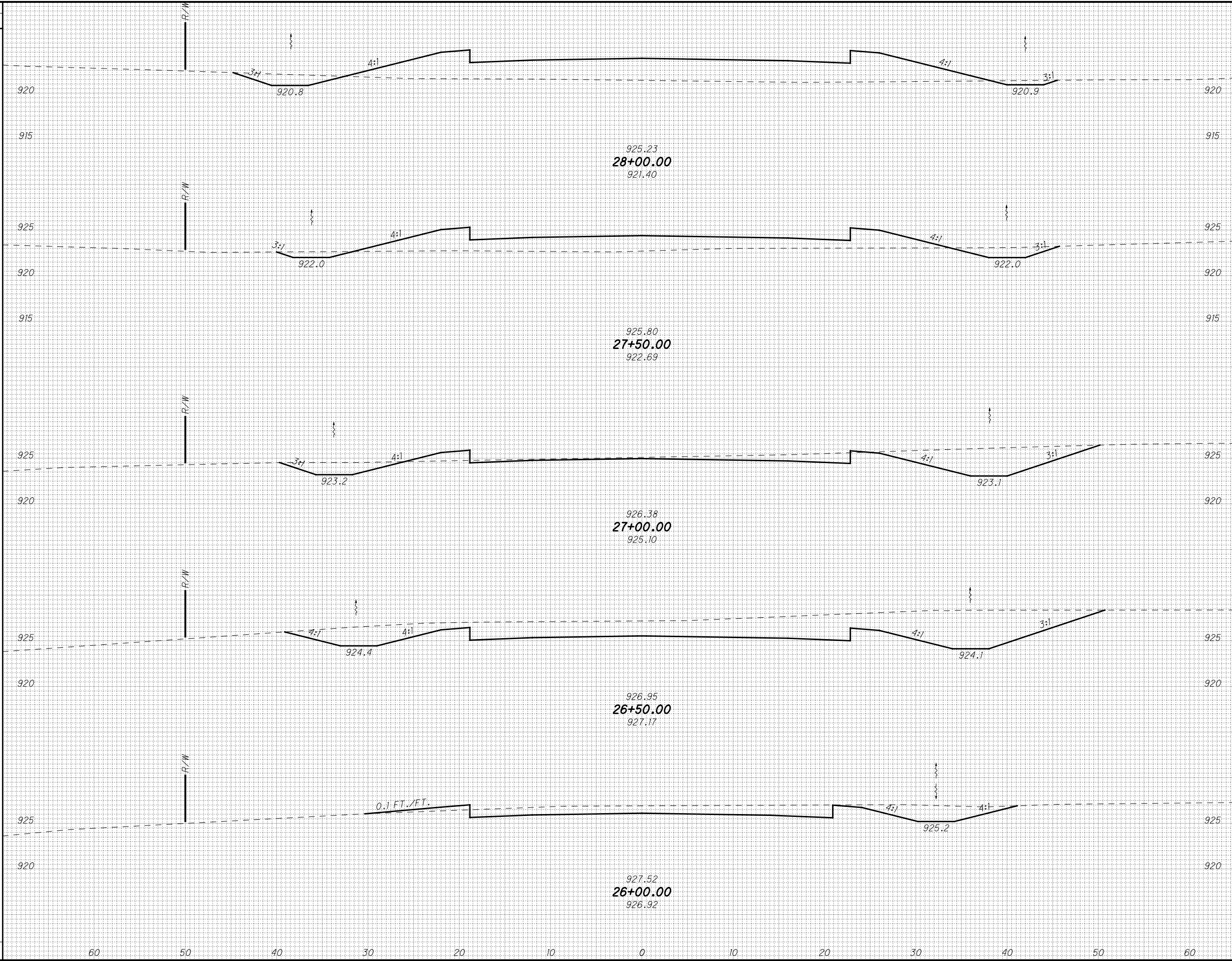
LIC-THORNWOOD

253
288

P:\PWP\dms08268\78116\5003.DGN 28-JUL-2010 9:58AM rgreenland

SEEDING

END WIDTH	SO. YDS.
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED RAT	CHECKED JEL
CUT	FILL	CUT	FILL		

CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 26+00.00 TO STA. 28+00.00

LIC-THORNWOOD

254
288

P:\PWP\dms08268\78116\5003.DGN 28-JUL-2010 9:58AM rgreenland

SEEDING	
END WIDTH	SO. YDS.

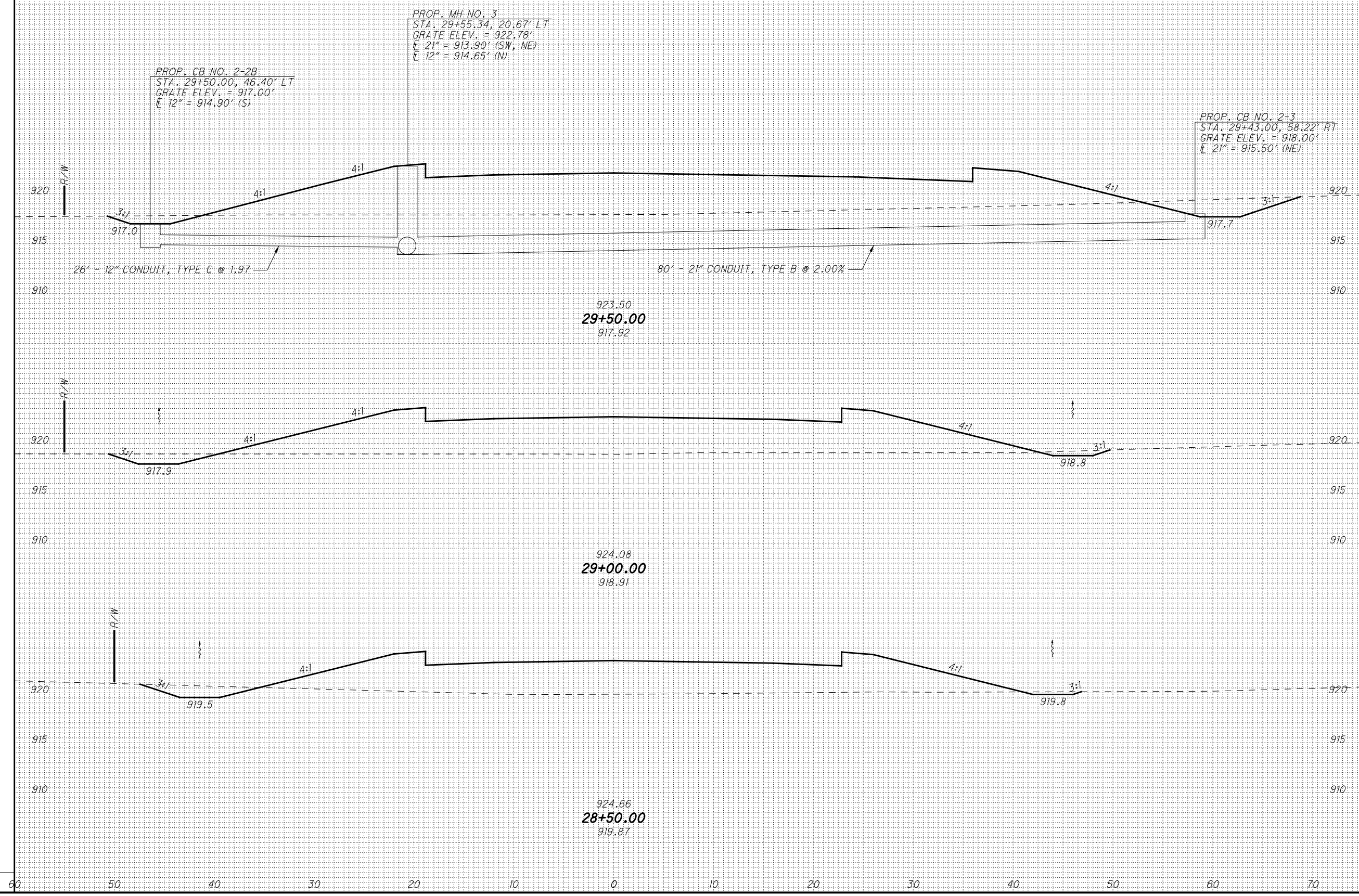
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
RAT	JEL

CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 28+50.00 TO STA. 29+50.00

LIC-THORNWOOD

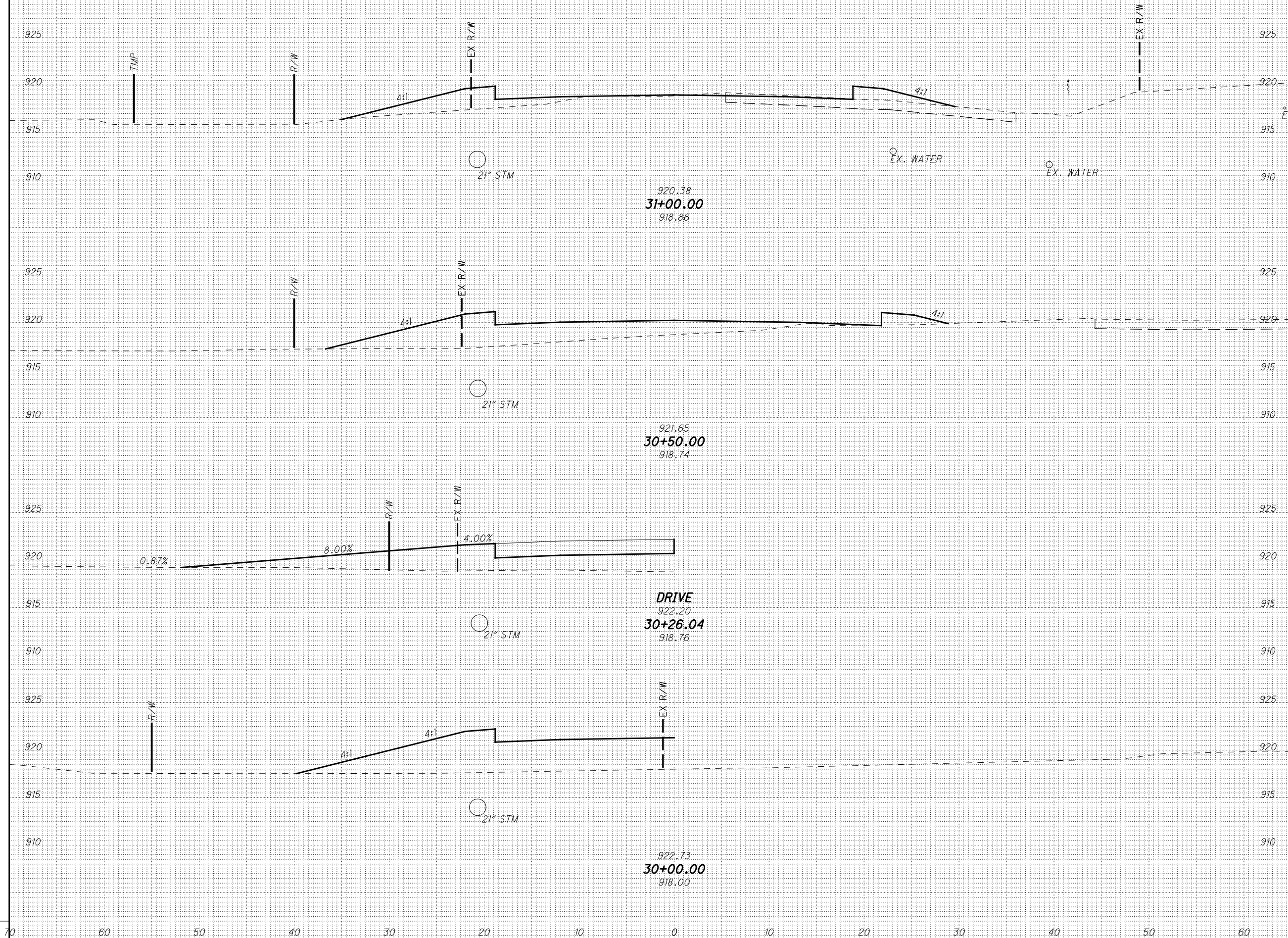
255
288



P:\PWP\dms08268\78116\5003.DGN 28-JUL-2010 9:59AM rgreenland

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED RAT CHECKED JEL



CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 30+00.00 TO STA. 31+00.00

LIC-THORNWOOD

256
288

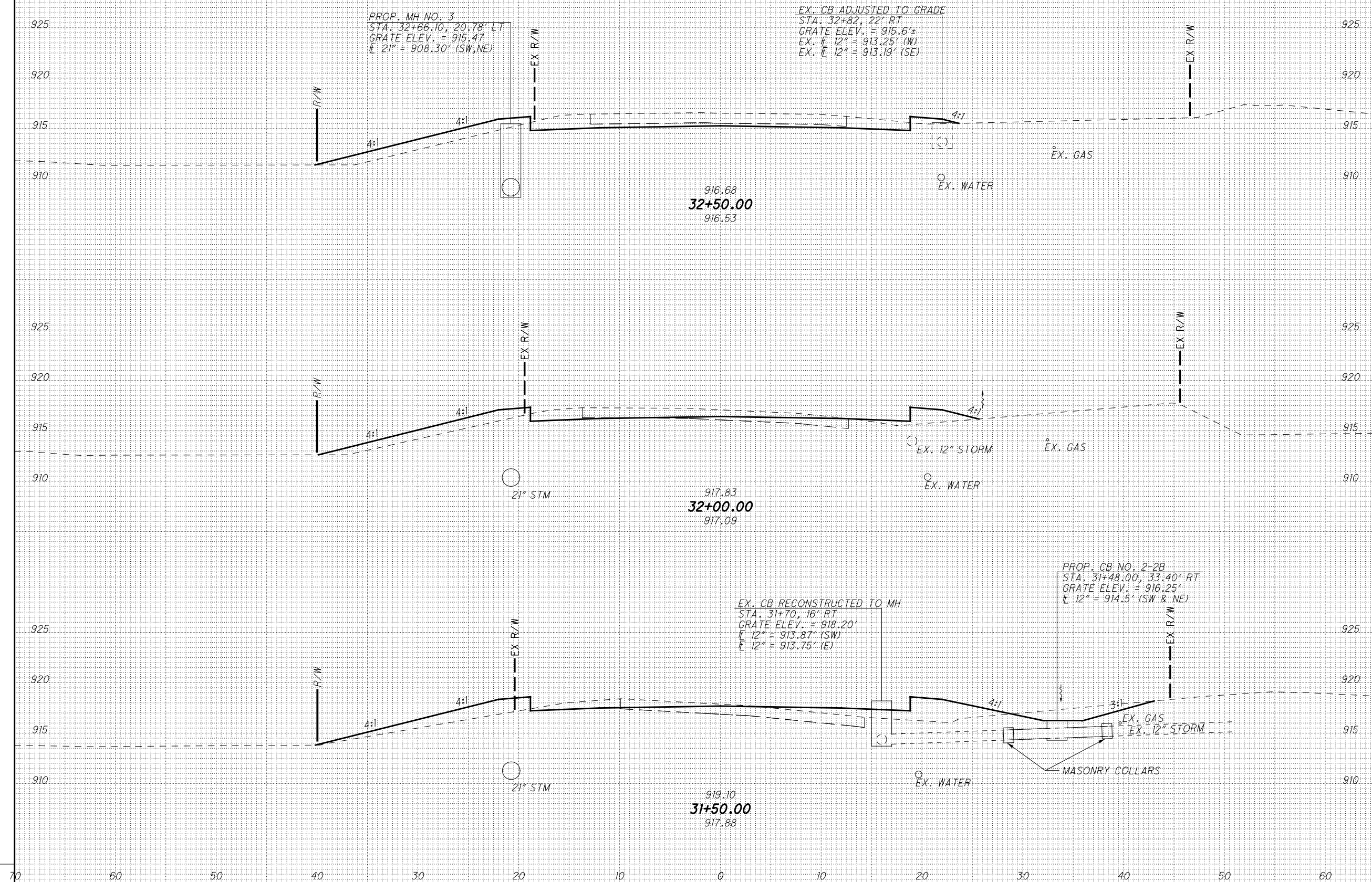
SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED RAT	CHECKED JEL

CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 31+50.00 TO STA. 32+50.00

LIC-THORNWOOD



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SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

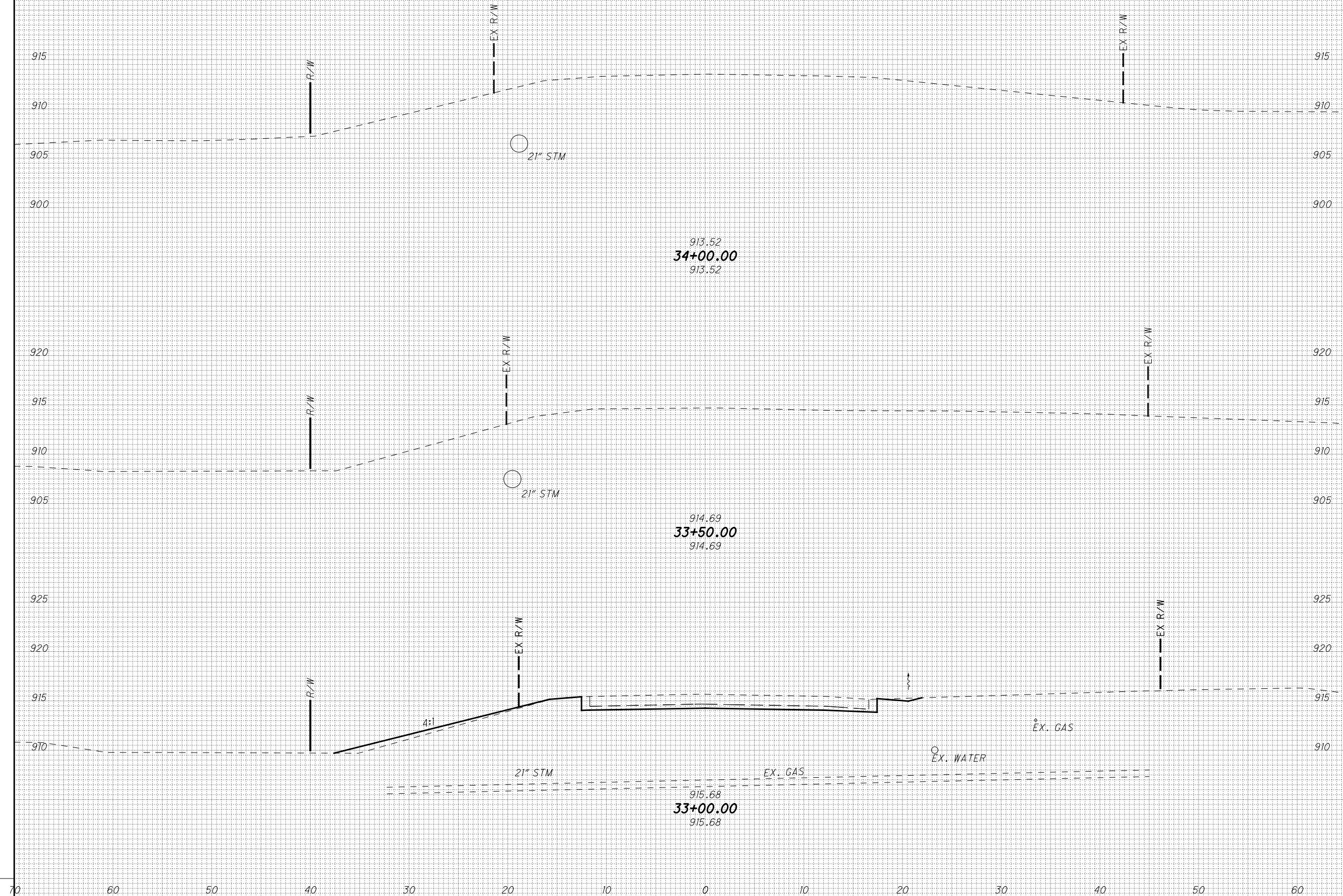
END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED
RAT	JEL

CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 33+00.00 TO STA. 34+00.00

LIC-THORNWOOD

258
288



P:\PWP\dms08268\78116\5003.DGN 28-JUL-2010 9:59AM rgreenland

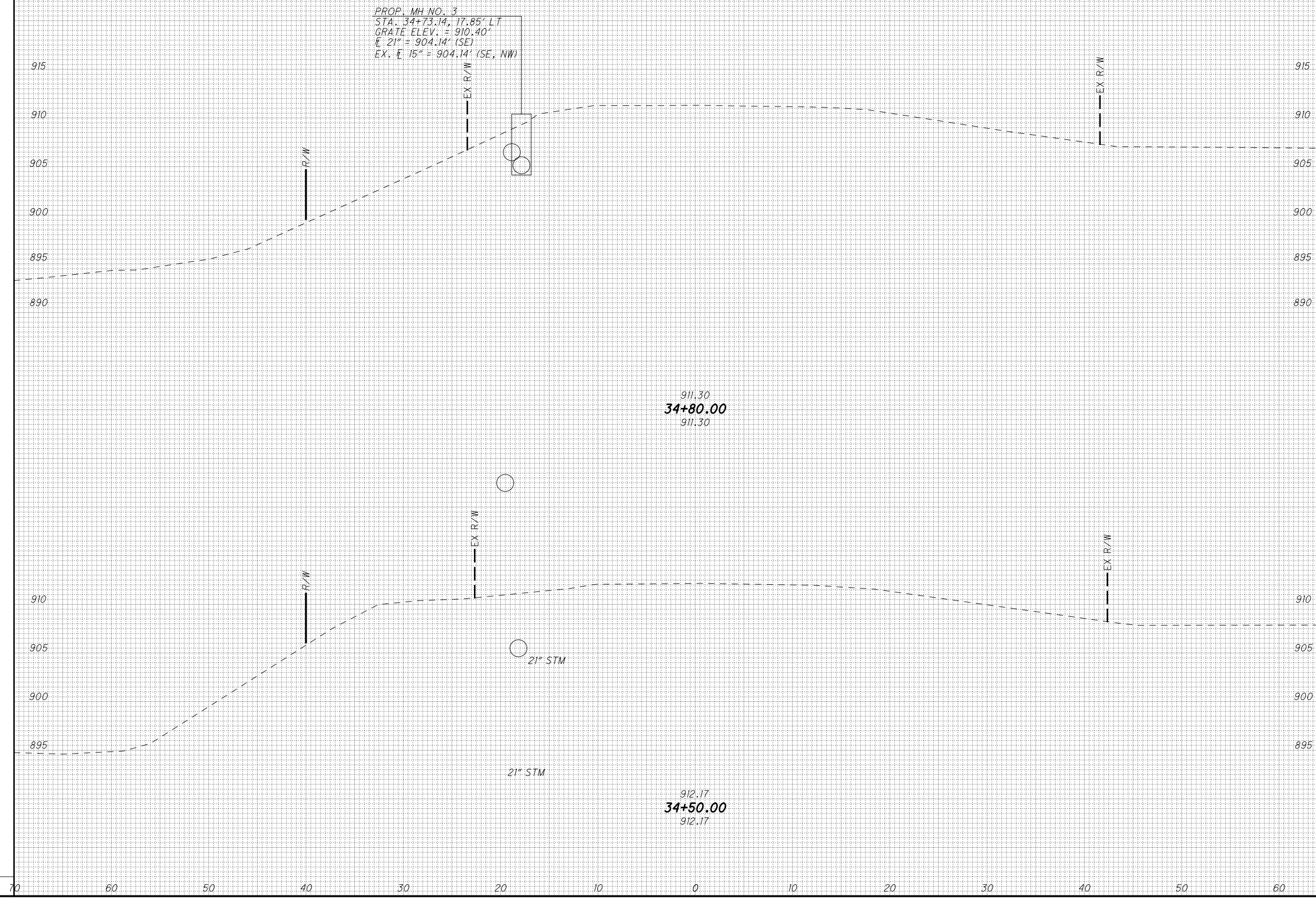
SEEDING	
END WIDTH	SO. YDS.

END AREA		VOLUME		CALCULATED RAT	CHECKED JEL
CUT	FILL	CUT	FILL		

CROSS SECTIONS - RELOC. RIVER / REDDINGTON
STA. 34+50.00 TO STA. 34+80.00

LIC-THORNWOOD

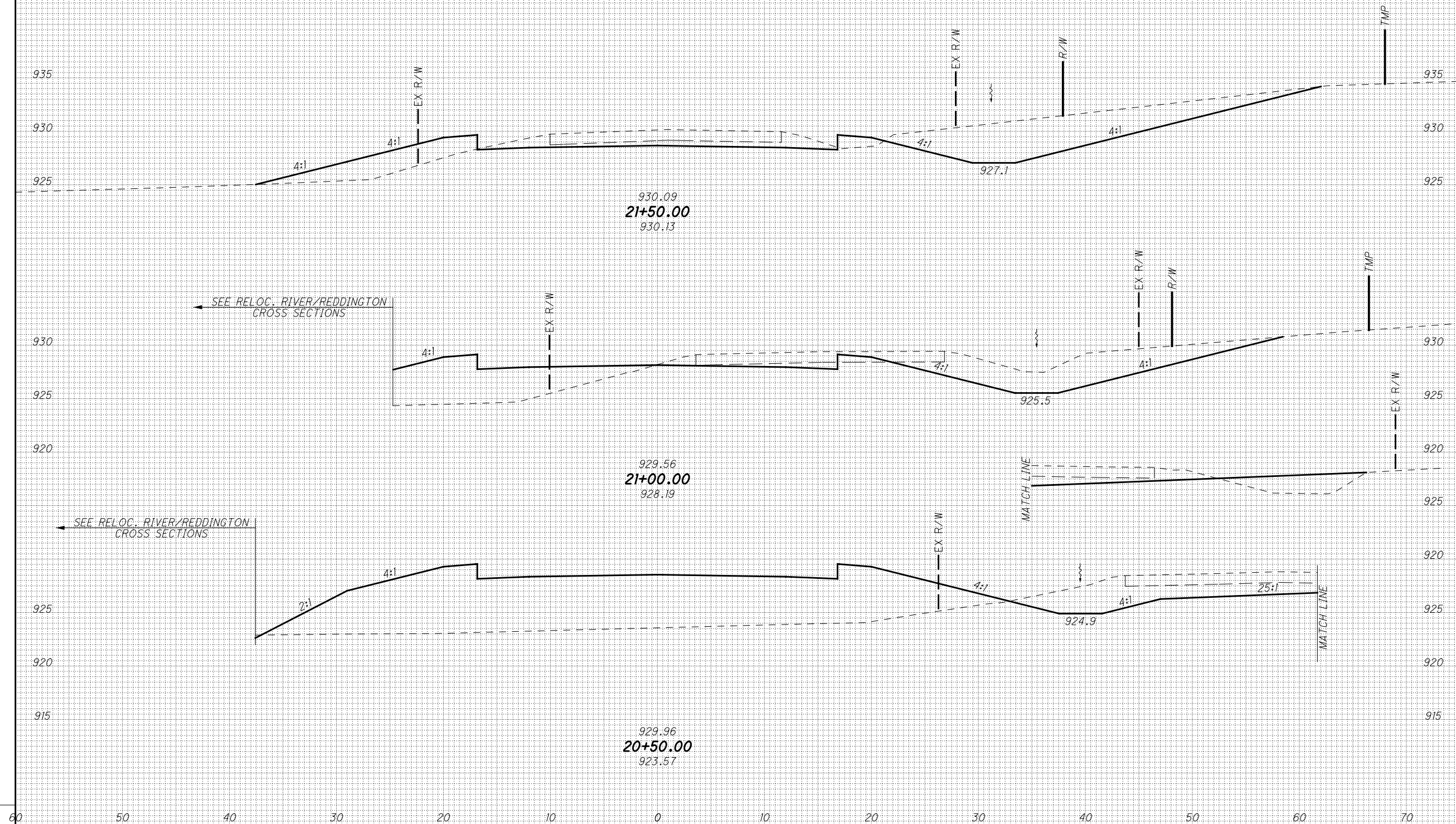
259
288



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SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED RAT CHECKED JEL



CROSS SECTIONS - RIVER CONNECTOR
STA. 20+50.00 TO STA. 21+50.00

LIC-THORNWOOD

260
288

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SEEDING

END WIDTH SQ. YDS.

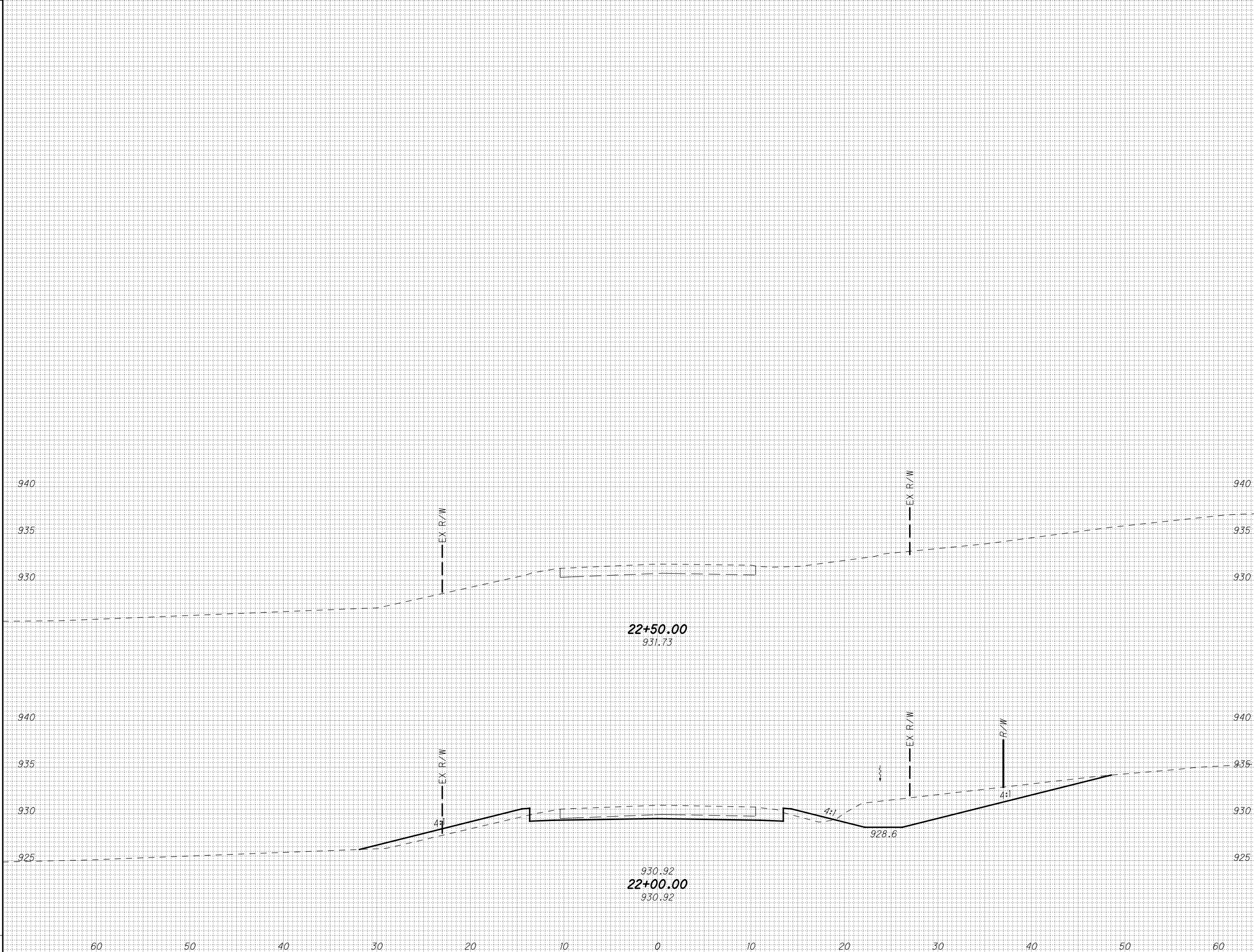
END AREA

VOLUME

CUT FILL

CUT FILL

CALCULATED RAT CHECKED JEL



CROSS SECTIONS - RIVER CONNECTOR
STA. 22+00.00 TO STA. 22+50.00

LIC-THORWOOD

261
288

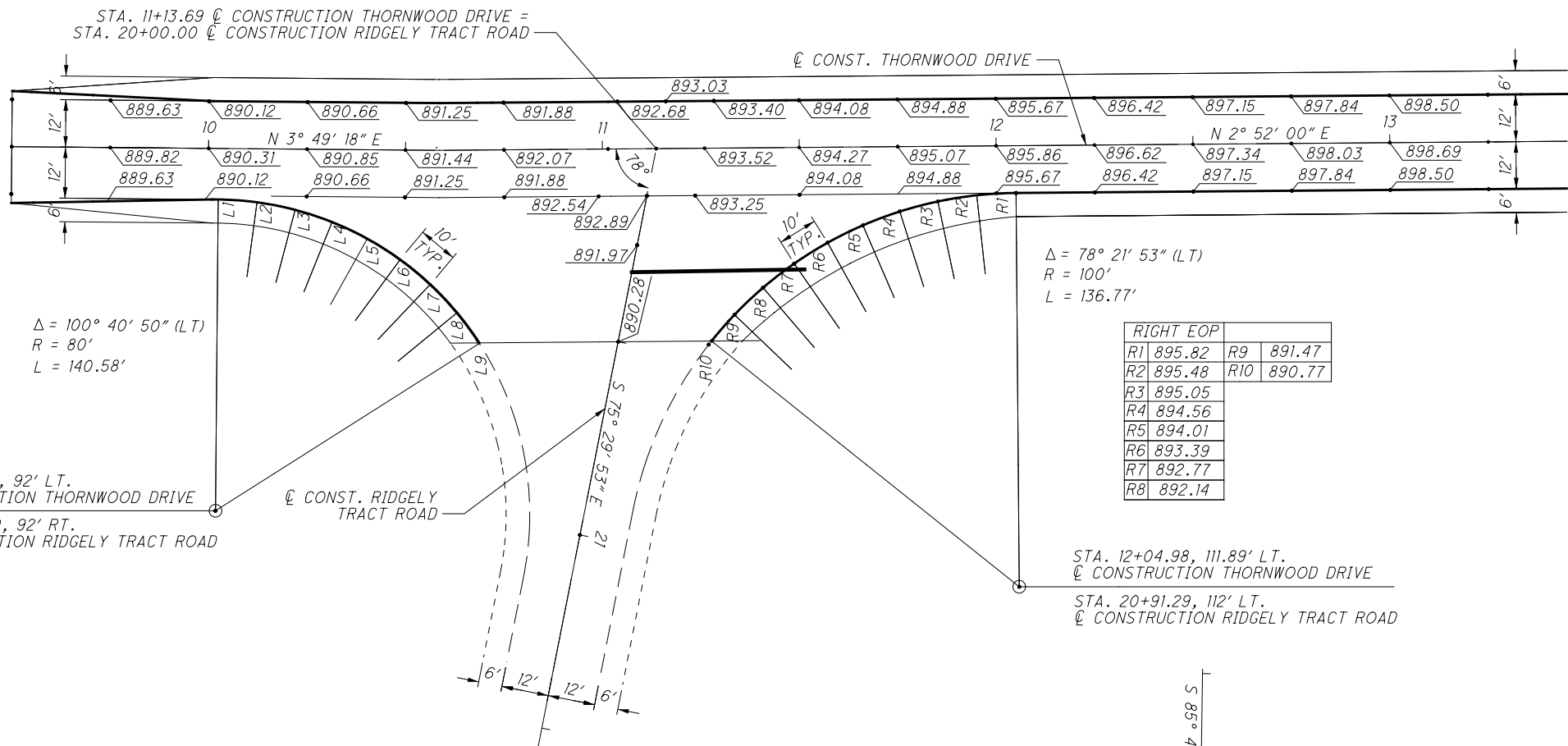


HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

INTERSECTION DETAILS
RIDGELY TRACT ROAD & SEMINARY ROAD

LIC-THORNWOOD



LEFT EOP	
L1	890.18
L2	890.37
L3	890.44
L4	890.47
L5	890.42
L6	890.31
L7	890.13
L8	889.87
L9	889.57

$\Delta = 100^\circ 40' 50''$ (LT)
 $R = 80'$
 $L = 140.58'$

$\Delta = 78^\circ 21' 53''$ (LT)
 $R = 100'$
 $L = 136.77'$

RIGHT EOP	
R1	895.82
R2	895.48
R3	895.05
R4	894.56
R5	894.01
R6	893.39
R7	892.77
R8	892.14
R9	891.47
R10	890.77

STA. 10+1.75, 92' LT.
 Ⓞ CONSTRUCTION THORNWOOD DRIVE

STA. 21+11.49, 92' RT.
 Ⓞ CONSTRUCTION RIDGELY TRACT ROAD

STA. 12+04.98, 111.89' LT.
 Ⓞ CONSTRUCTION THORNWOOD DRIVE

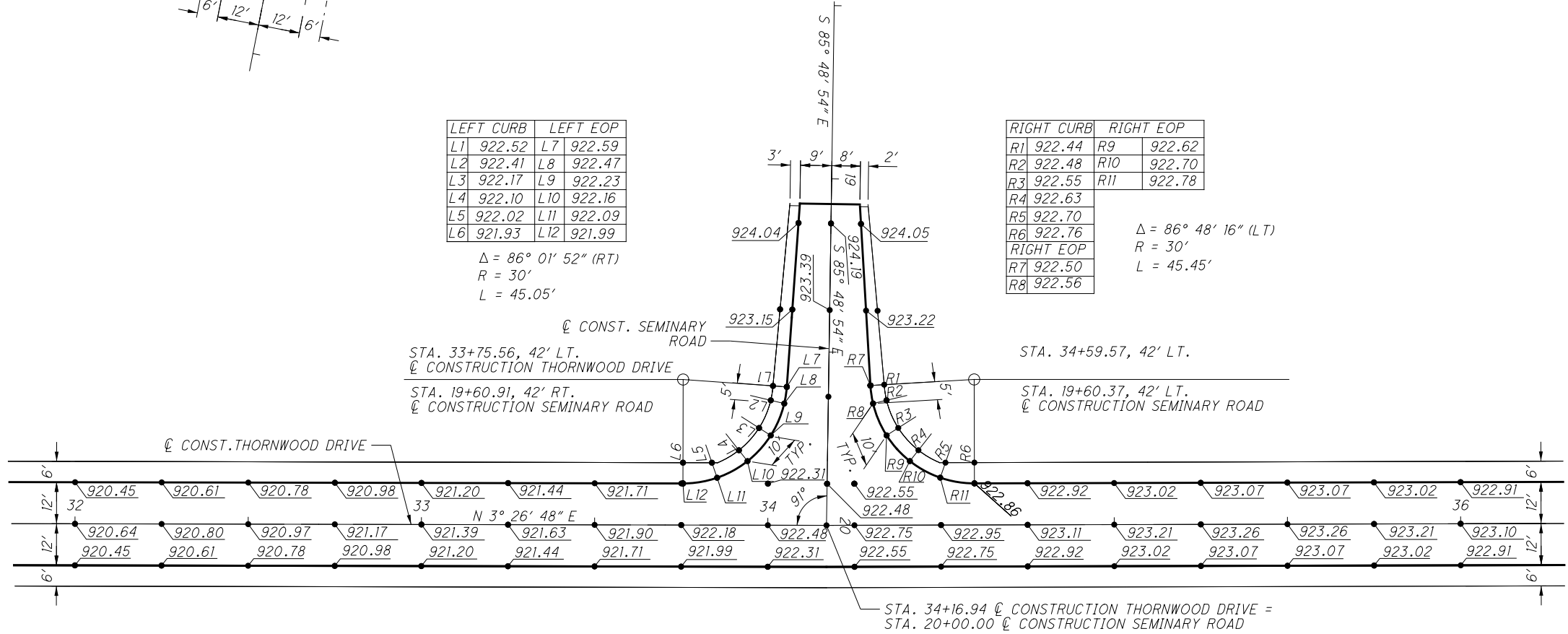
STA. 20+91.29, 112' LT.
 Ⓞ CONSTRUCTION RIDGELY TRACT ROAD

LEFT CURB	LEFT EOP
L1	922.52
L2	922.41
L3	922.17
L4	922.10
L5	922.02
L6	921.93
L7	922.59
L8	922.47
L9	922.23
L10	922.16
L11	922.09
L12	921.99

$\Delta = 86^\circ 01' 52''$ (RT)
 $R = 30'$
 $L = 45.05'$

RIGHT CURB	RIGHT EOP
R1	922.44
R2	922.48
R3	922.55
R4	922.63
R5	922.70
R6	922.76
R7	922.50
R8	922.56
R9	922.62
R10	922.70
R11	922.78

$\Delta = 86^\circ 48' 16''$ (LT)
 $R = 30'$
 $L = 45.45'$



STA. 33+75.56, 42' LT.
 Ⓞ CONSTRUCTION THORNWOOD DRIVE

STA. 19+60.91, 42' RT.
 Ⓞ CONSTRUCTION SEMINARY ROAD

STA. 34+59.57, 42' LT.
 Ⓞ CONSTRUCTION THORNWOOD DRIVE

STA. 19+60.37, 42' LT.
 Ⓞ CONSTRUCTION SEMINARY ROAD

STA. 34+16.94 Ⓞ CONSTRUCTION THORNWOOD DRIVE =
 STA. 20+00.00 Ⓞ CONSTRUCTION SEMINARY ROAD



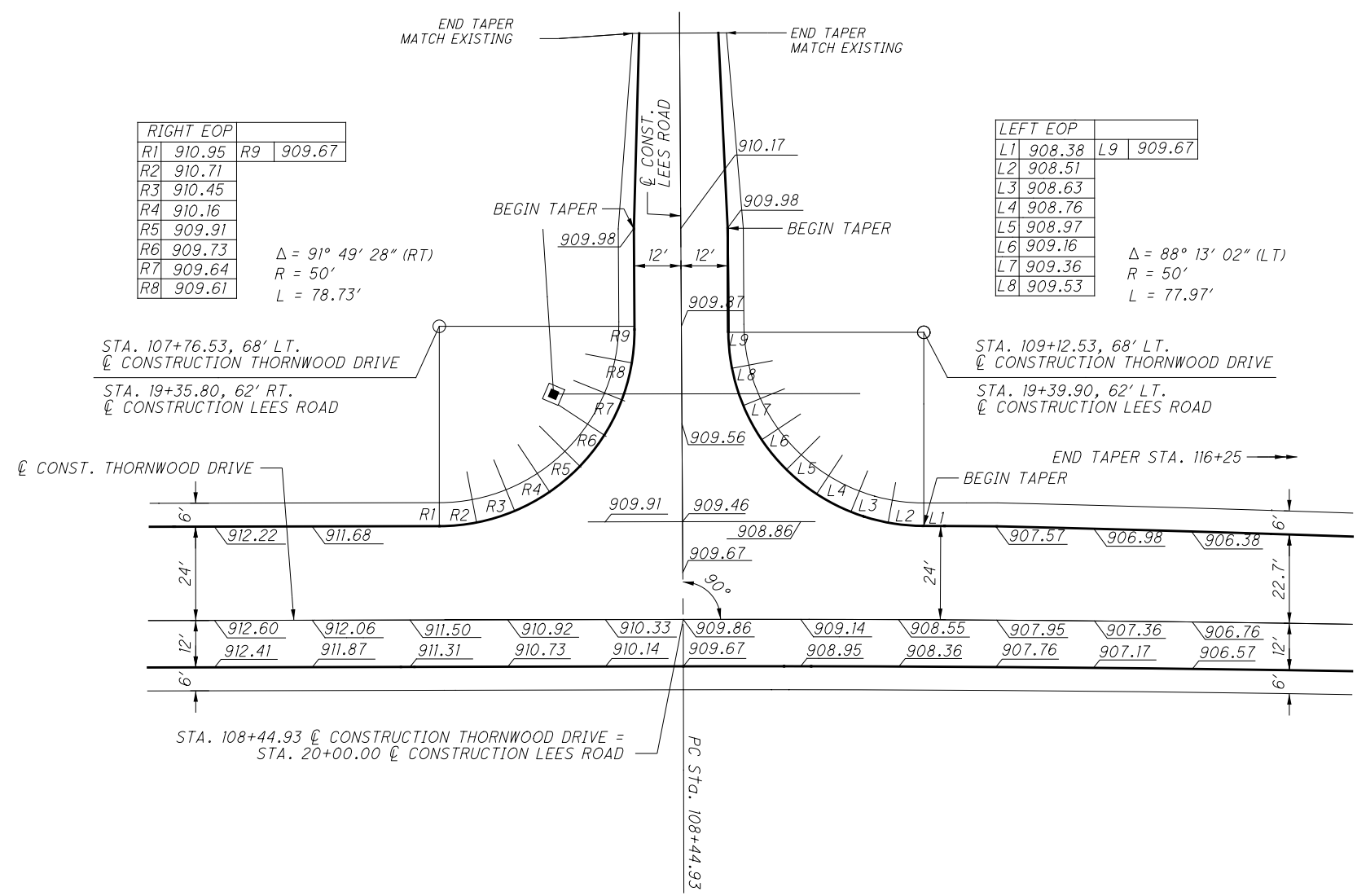
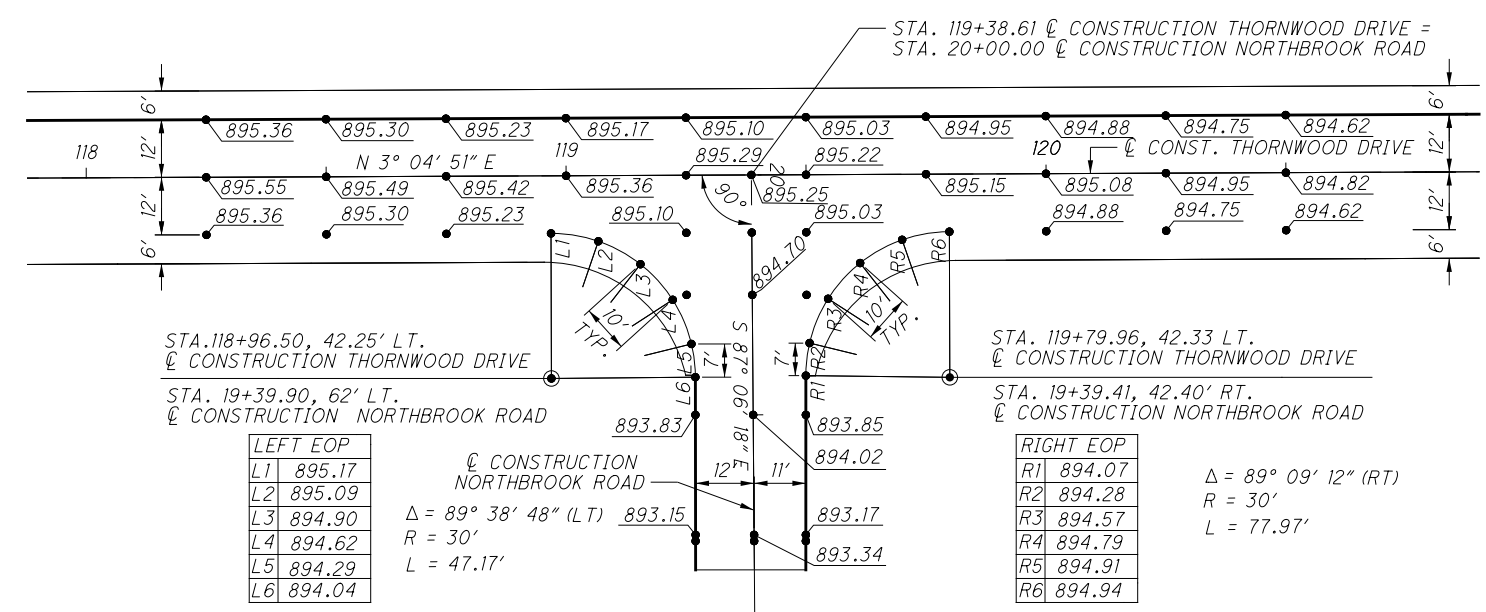
HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

INTERSECTION DETAILS
LEES ROAD & NORTHBROOK COURT

LIC-THORNWOOD

263
288



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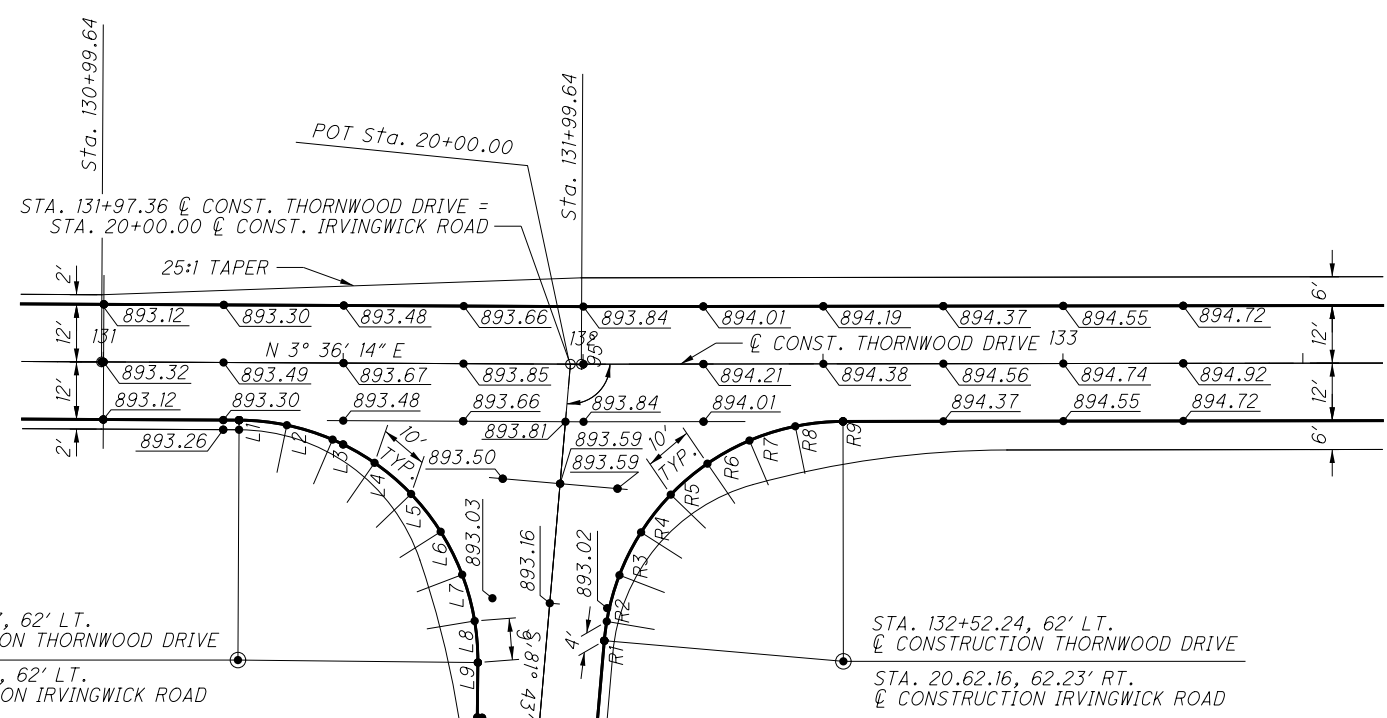


HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

INTERSECTION DETAILS
IRVING WICK DRIVE & HALLIE ROAD

LIC-THORNWOOD

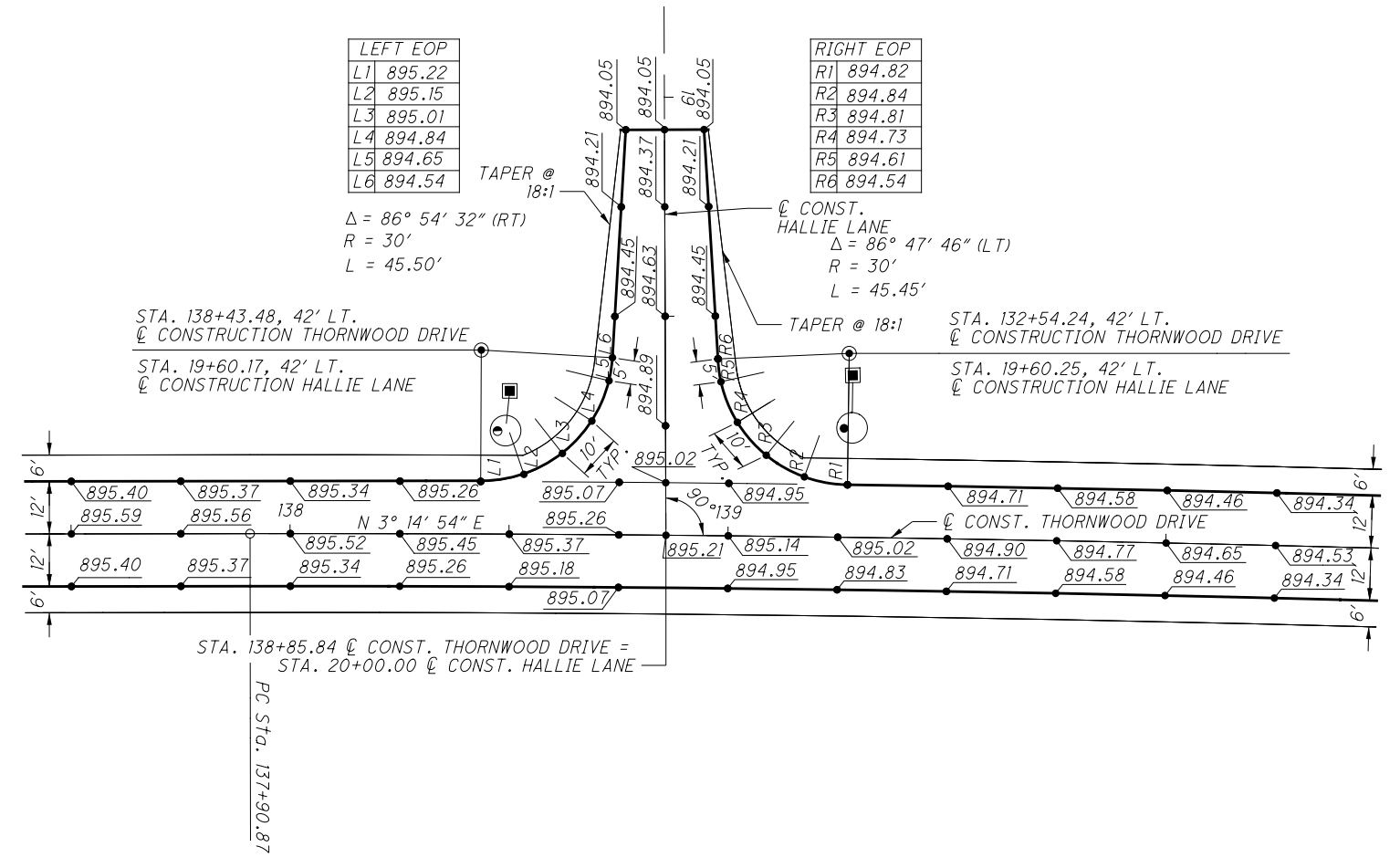


LEFT EOP	
L1	893.33
L2	893.37
L3	893.37
L4	893.32
L5	893.25
L6	893.17
L7	893.04
L8	892.87
L9	892.70

$\Delta = 90^\circ 18' 52''$ (LT)
 $R = 50'$
 $L = 78.81'$

RIGHT EOP	
R1	892.85
R2	892.95
R3	893.18
R4	893.41
R5	893.63
R6	893.82
R7	893.99
R8	894.13
R9	894.22

$\Delta = 84^\circ 58' 39''$ (LT)
 $R = 50'$
 $L = 74.16'$



LEFT EOP	
L1	895.22
L2	895.15
L3	895.01
L4	894.84
L5	894.65
L6	894.54

$\Delta = 86^\circ 54' 32''$ (RT)
 $R = 30'$
 $L = 45.50'$

RIGHT EOP	
R1	894.82
R2	894.84
R3	894.81
R4	894.73
R5	894.61
R6	894.54

$\Delta = 86^\circ 47' 46''$ (LT)
 $R = 30'$
 $L = 45.45'$

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HORIZONTAL SCALE IN FEET

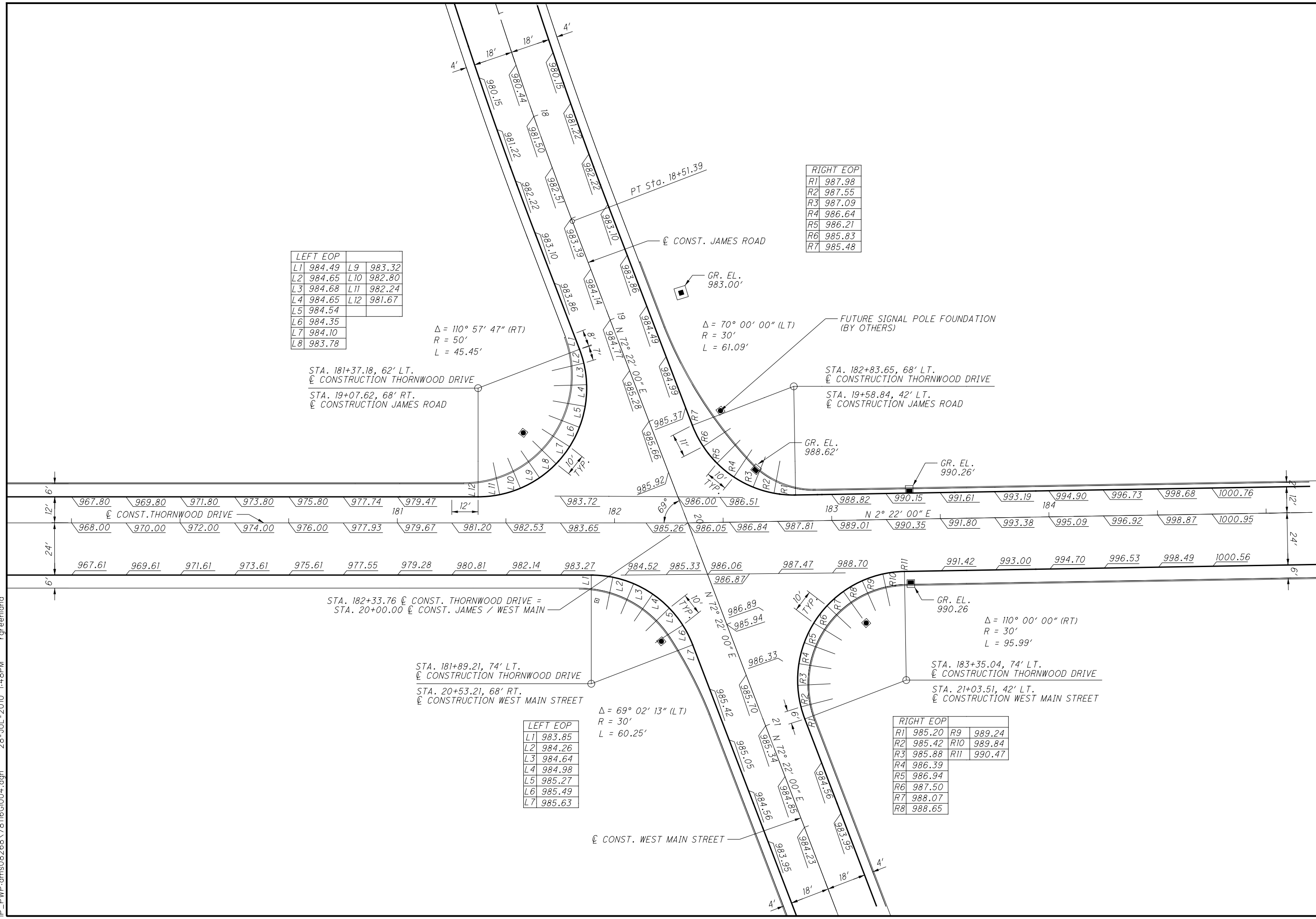
CALCULATED
CHECKED

INTERSECTION DETAIL
JAMES ROAD / WEST MAIN STREET

LIC-THORNWOOD

265
288

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LEFT EOP	
L1	984.49
L2	984.65
L3	984.68
L4	984.65
L5	984.54
L6	984.35
L7	984.10
L8	983.78
L9	983.32
L10	982.80
L11	982.24
L12	981.67

RIGHT EOP	
R1	987.98
R2	987.55
R3	987.09
R4	986.64
R5	986.21
R6	985.83
R7	985.48

LEFT EOP	
L1	983.85
L2	984.26
L3	984.64
L4	984.98
L5	985.27
L6	985.49
L7	985.63

RIGHT EOP	
R1	985.20
R2	985.42
R3	985.88
R4	986.39
R5	986.94
R6	987.50
R7	988.07
R8	988.65
R9	989.24
R10	989.84
R11	990.47

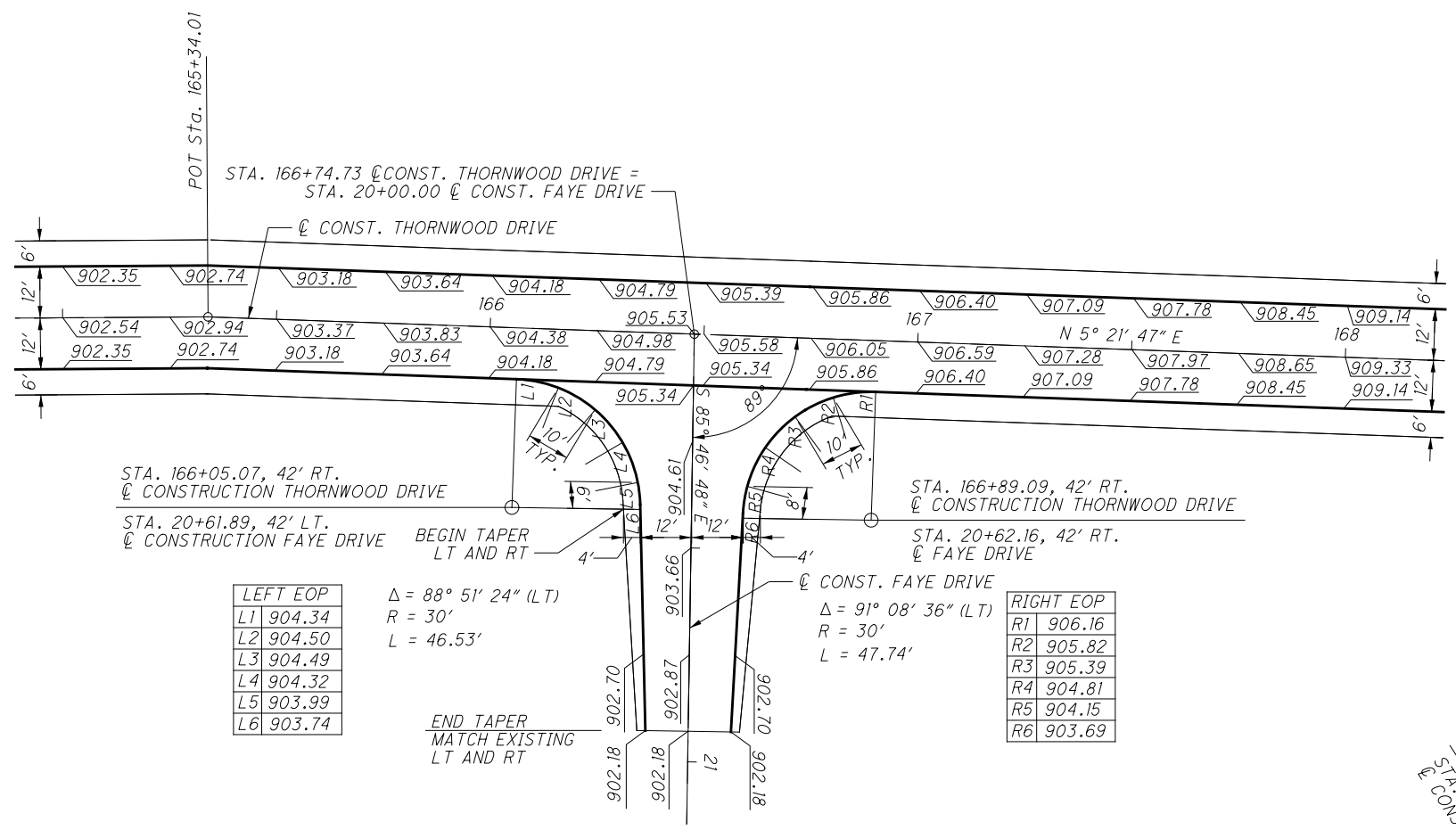


HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

INTERSECTION DETAILS FAYE DRIVE & RIVER ROAD CONNECTOR

LIC-THORNWOOD

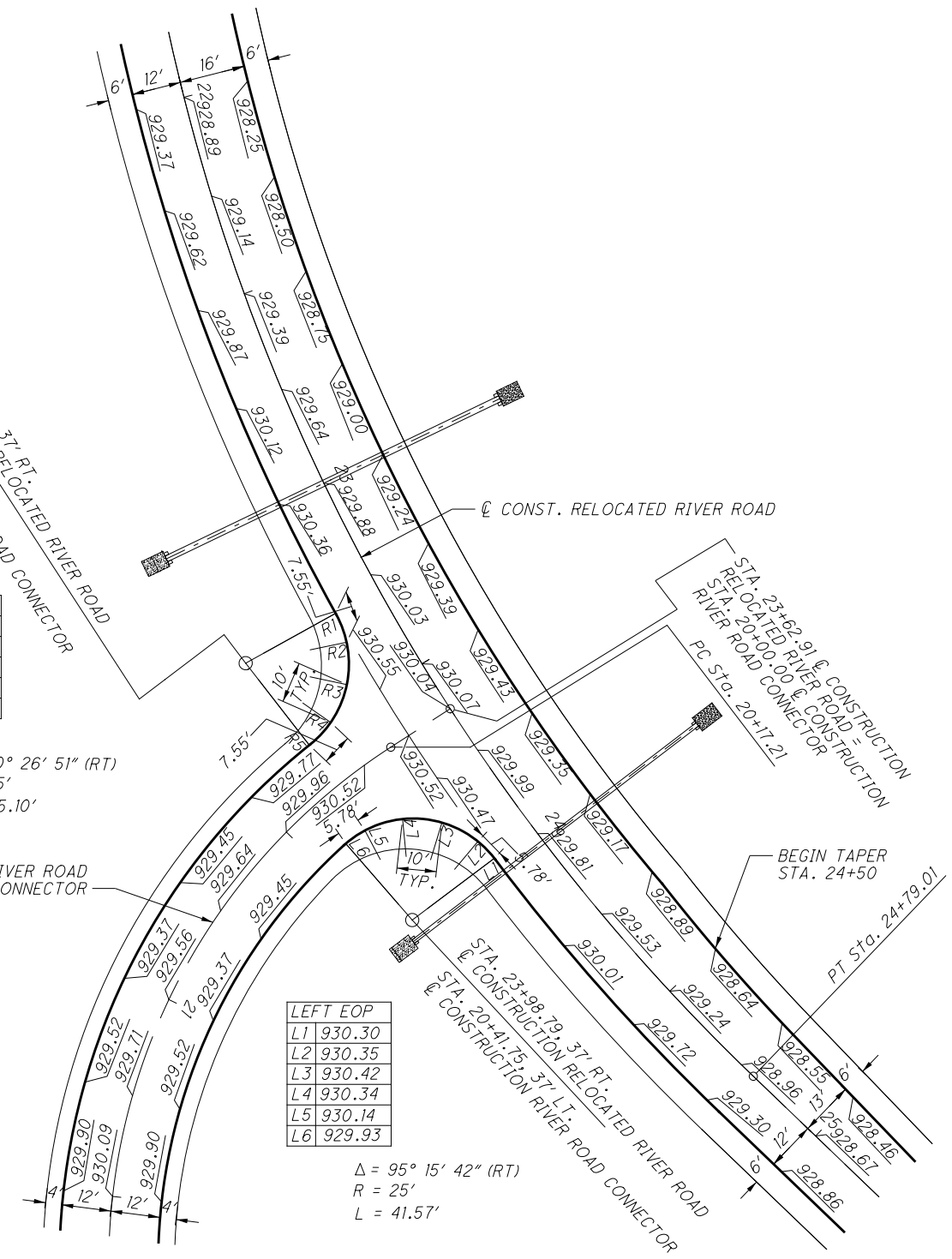


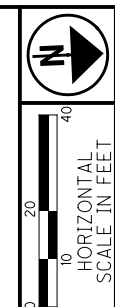
LEFT EOP	
L1	904.34
L2	904.50
L3	904.49
L4	904.32
L5	903.99
L6	903.74

RIGHT EOP	
R1	906.16
R2	905.82
R3	905.39
R4	904.81
R5	904.15
R6	903.69

RIGHT EOP	
R1	930.52
R2	930.51
R3	930.45
R4	930.30
R5	930.15

LEFT EOP	
L1	930.30
L2	930.35
L3	930.42
L4	930.34
L5	930.14
L6	929.93

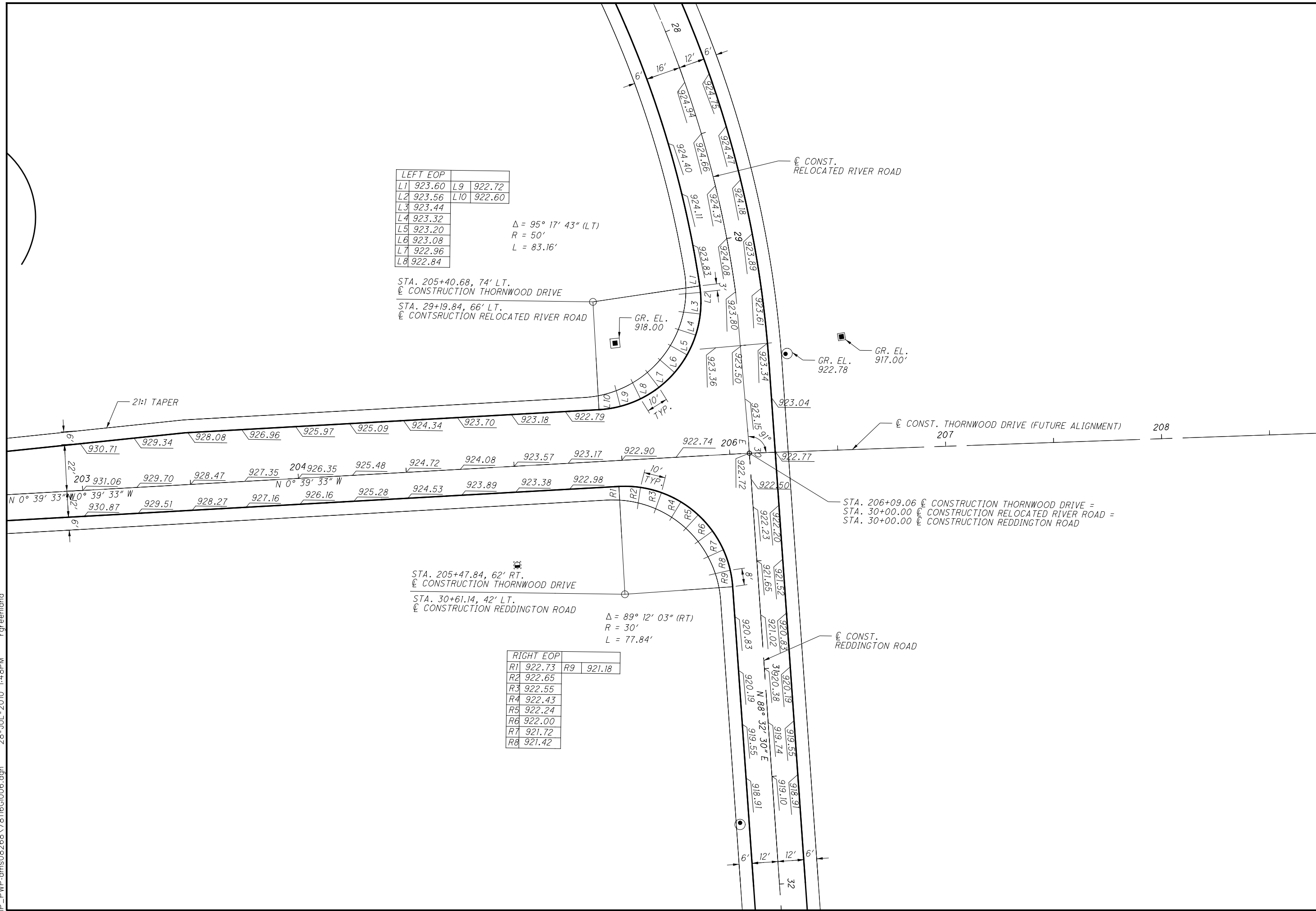




CALCULATED
CHECKED

INTERSECTION DETAIL
THORNWOOD AND RELOCATED RIVER ROAD

LIC-THORNWOOD



LEFT EOP			
L1	923.60	L9	922.72
L2	923.56	L10	922.60
L3	923.44		
L4	923.32		
L5	923.20		
L6	923.08		
L7	922.96		
L8	922.84		

$\Delta = 95^\circ 17' 43''$ (LT)
R = 50'
L = 83.16'

STA. 205+40.68, 74' LT.
⊕ CONSTRUCTION THORNWOOD DRIVE
STA. 29+19.84, 66' LT.
⊕ CONSTRUCTION RELOCATED RIVER ROAD

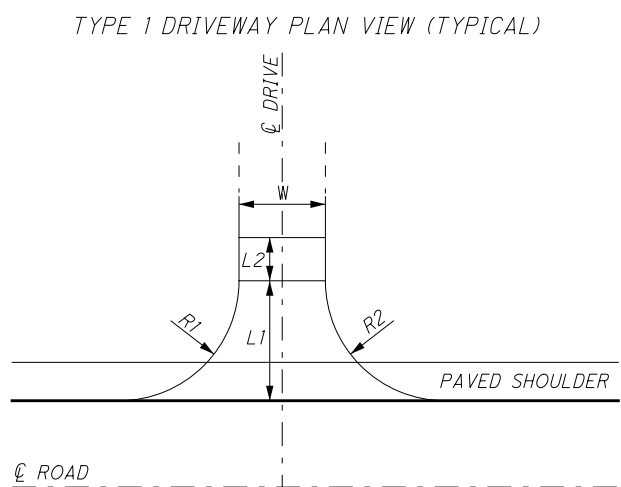
STA. 205+47.84, 62' RT.
⊕ CONSTRUCTION THORNWOOD DRIVE
STA. 30+61.14, 42' LT.
⊕ CONSTRUCTION REDDINGTON ROAD

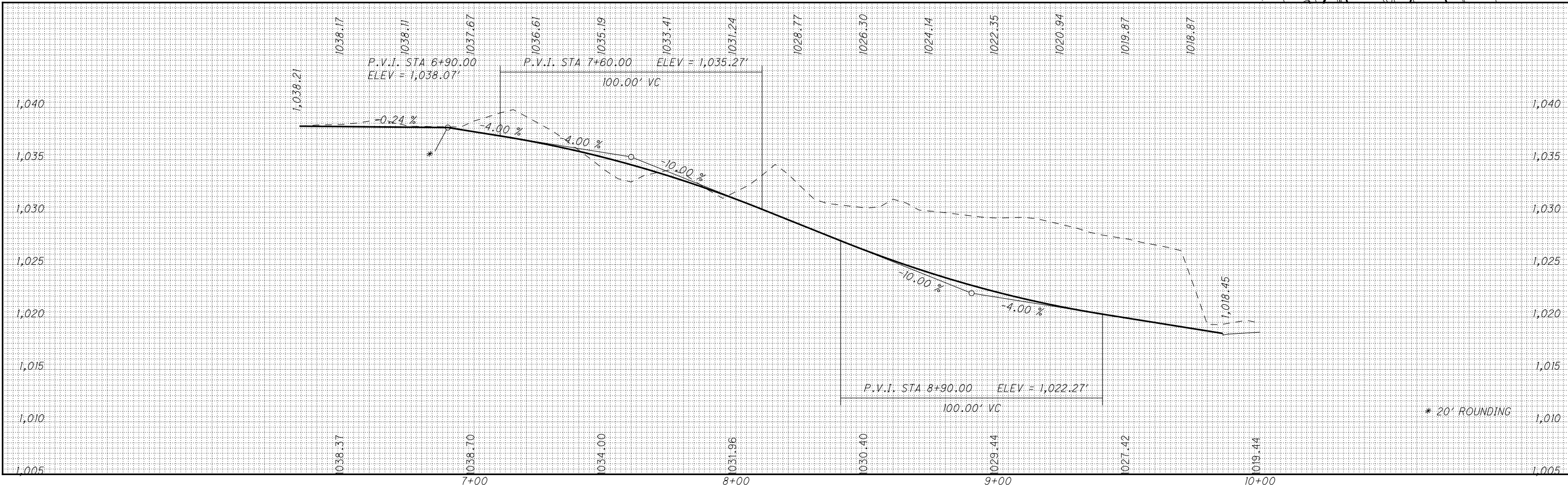
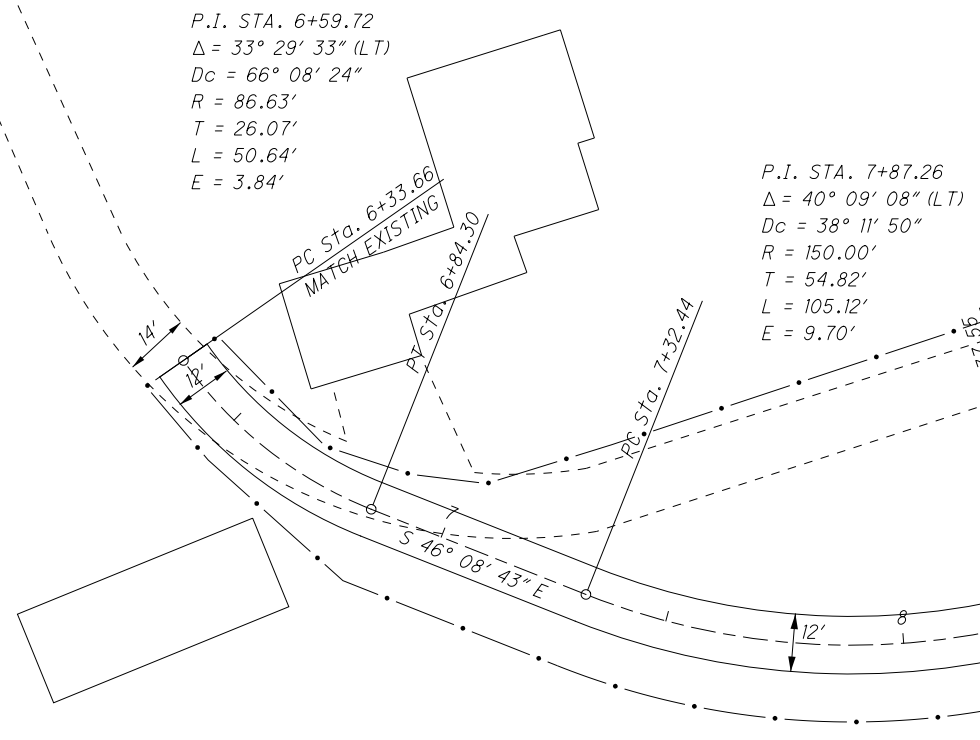
RIGHT EOP			
R1	922.73	R9	921.18
R2	922.65		
R3	922.55		
R4	922.43		
R5	922.24		
R6	922.00		
R7	921.72		
R8	921.42		

$\Delta = 89^\circ 12' 03''$ (RT)
R = 30'
L = 77.84'

STA. 206+09.06 ⊕ CONSTRUCTION THORNWOOD DRIVE =
STA. 30+00.00 ⊕ CONSTRUCTION RELOCATED RIVER ROAD =
STA. 30+00.00 ⊕ CONSTRUCTION REDDINGTON ROAD

SHEET NO.	REFERENCE NO.	STATION	SIDE	DRIVE TYPE	DRIVE ANGLE	APRON LENGTH "L1"	DRIVEWAY LENGTH "L2"	WIDTH "W"	R1 (LEFT SIDE RADIUS OF DRIVE LOOKING FROM ϕ)	R2 (RIGHT SIDE RADIUS OF DRIVE LOOKING FROM ϕ)	CADD GENERATED SURFACE AREA																					
					DEG.	FT.	FT.	FT.	FT.	FT.												SQ. FT.										
THORNWOOD DRIVE																																
20		14+57.84	LT.	FIELD	90	26	30	20	25	25																						
20		14+58.13	RT.	FIELD	89	27	11	20	25	25																						
21		16+49.16	RT.	CONC.	91	26	12	20	25	25																						
22		23+72.66	LT.	FIELD	90	26	0	20	25	25																						
23		25+72.72	LT.	FIELD	90	16	0	24	25	25																						
27		46+36.39	LT.	FIELD	90	18	18	22	25	25																						
29		55+24.44	LT.	GRAV.	87	24	13	39	25	25																						
29		59+15.80	RT.	FIELD	90	25	0	20	25	25																						
29		59+59.34	LT.	GRAV.	89	26	12	12	25	25																						
30		63+87.67	LT.	GRAV.	89	26	12	12	25	25																						
31		66+59.90	LT.	GRAV.	74	33	7	12	25	25																						
31		67+86.02	LT.	GRAV.	90	27	11	57	25	25																						
32		70+52.69	LT.	GRAV.	83	29	9	12	25	25																						
32		71+01.33	RT.	FIELD	91	25	13	17	25	25																						
32		71+60.75	LT.	GRAV.	90	27	11	12	25	25																						
33		75+06.56	RT.	ASPH.	91	26	12	12	25	25																						
33		76+25.06	RT.	ASPH.	90	26	16	15	25	25																						
33		79+33.23	LT.	GRAV.	109	34	9	22	25	25																						
33		79+43.70	RT.	CONC.	89	26	12	12	25	25																						
33		79+72.01	RT.	CONC.	92	26	12	12	25	25																						
33		79+84.21	LT.	GRAV.	89	26	12	12	25	25																						
34		80+27.65	RT.	GRAV.	92	28	11	20	25	25																						
34		81+24.80	RT.	GRAV.	92	27	11	20	25	25																						
34		83+65.48	RT.	GRAV.	91	26	12	13	25	25																						
35		85+02.32	RT.	GRAV.	93	27	11	14	25	25																						
35		87+50.44	RT.	GRAV.	78	31	8	12	25	25																						
35		88+36.42	RT.	ASPH.	91	26	12	20	25	25																						
35		89+97.67	RT.	GRAV.	90	26	12	12	25	25																						
37		97+82.74	LT.	GRAV.	90	26	12	12	25	25																						
37		97+99.19	RT.	GRAV.	91	26	15	12	25	25																						
37		98+45.50	LT.	GRAV.	85	28	39	12	25	25																						
38		101+13.80	LT.	GRAV.	90	26	50	14	25	25																						
38		101+51.43	RT.	ASPH.	92	27	12	42	25	25																						
39		105+30.79	LT.	FIELD	90	26	19	20	25	25																						
39		105+74.34	RT.	GRAV.	86	26	12	12	25	25																						
40		111+22.07	RT.	ASPH.	88	26	7	34	25	25																						
40		113+07.11	LT.	GRAV.	90	26	12	17	25	25																						
40		114+76.80	LT.	GRAV.	94	28	10	12	25	25																						
42		120+94.00	RT.	ASPH.	88	27	10	18	25	25																						
42		122+15.71	RT.	ASPH.	89	26	10	13	25	25																						
42		122+50.63	RT.	ASPH.	89	26	0	26	25	25																						
42		124+36.21	RT.	CONC.	89	26	9	22	25	25																						
43		127+32.44	RT.	ASPH.	92	27	39	12	25	25																						
43		128+90.51	RT.	ASPH.	89	26	7	12	25	25																						
43		129+00.57	LT.	GRAV.	90	37	0	24	34	21																						
44		132+99.27	LT.	GRAV.	70	34	12	13	25	25																						
46		144+70.80	LT.	GRAV.	92	27	8	39	25	25																						
49		157+24.43	RT.	GRAV.	90	26	10	12	25	25																						
49		158+71.62	RT.	GRAV.	86	27	19	12	25	25																						
49		159+89.33	RT.	GRAV.	90	27	19	12	30	25																						
50		160+83.70	RT.	GRAV.	88	26	20	18	25	25																						
50		161+17.18	LT.	FIELD	90	23	0	20	25	25																						
50		161+56.82	RT.	GRAV.	91	26	20	12	25	25																						
TOTALS CARRIED TO GENERAL SUMMARY																																





* 20' ROUNDING

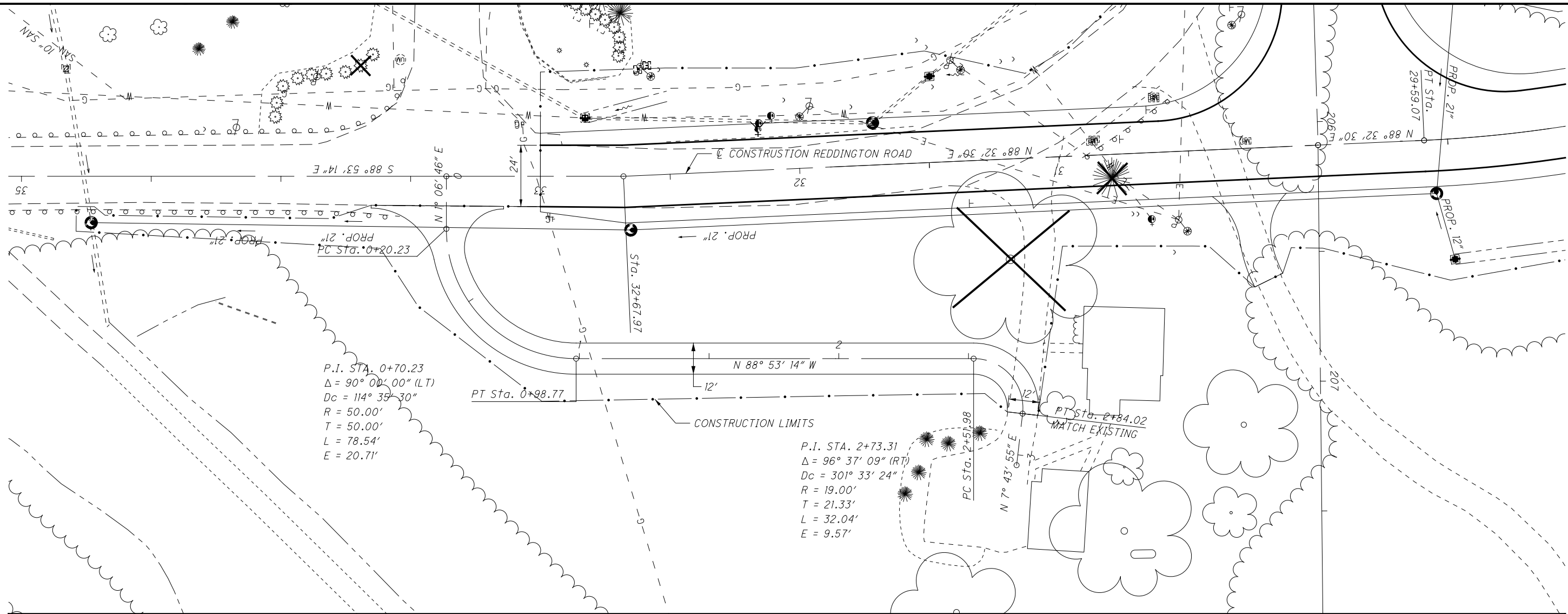
CALCULATED
RAT
CHECKED
JEL

HORIZONTAL SCALE IN FEET

DRIVE DETAIL
STA. 187+29.27 LT.

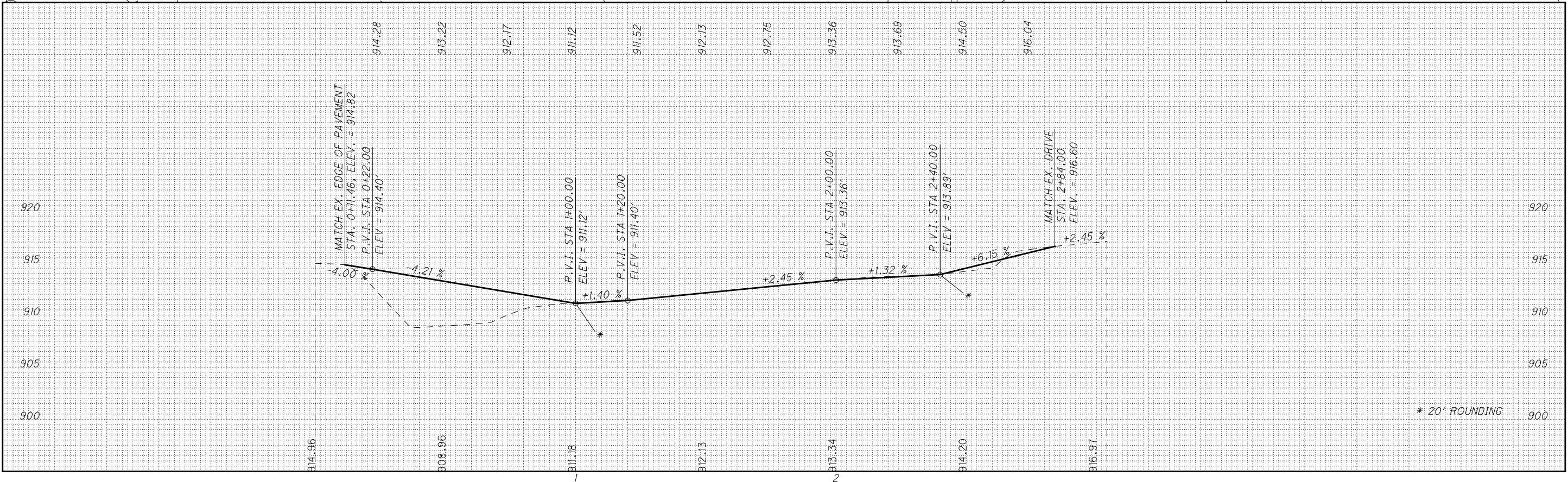
LIC-THORNWOOD

270
288



P.I. STA. 0+70.23
 $\Delta = 90^\circ 00' 00''$ (LT)
 $Dc = 114' 35' 30''$
 $R = 50.00'$
 $T = 50.00'$
 $L = 78.54'$
 $E = 20.71'$

P.I. STA. 2+73.31
 $\Delta = 96^\circ 37' 09''$ (RT)
 $Dc = 301' 33' 24''$
 $R = 19.00'$
 $T = 21.33'$
 $L = 32.04'$
 $E = 9.57'$



* 20' ROUNDING

CALCULATED
 RAT
 CHECKED
 JEL

0 10 20
 HORIZONTAL
 SCALE IN FEET

DRIVE DETAIL
STA. 33+36.23 LT.

LIC-THORNWOOD

271
 288

IP_PWP:dms08268\78116X5002.dgn 28-JUL-2010 1:49PM rgreenland

SEEDING

END WIDTH SQ. YDS.

END AREA CUT FILL

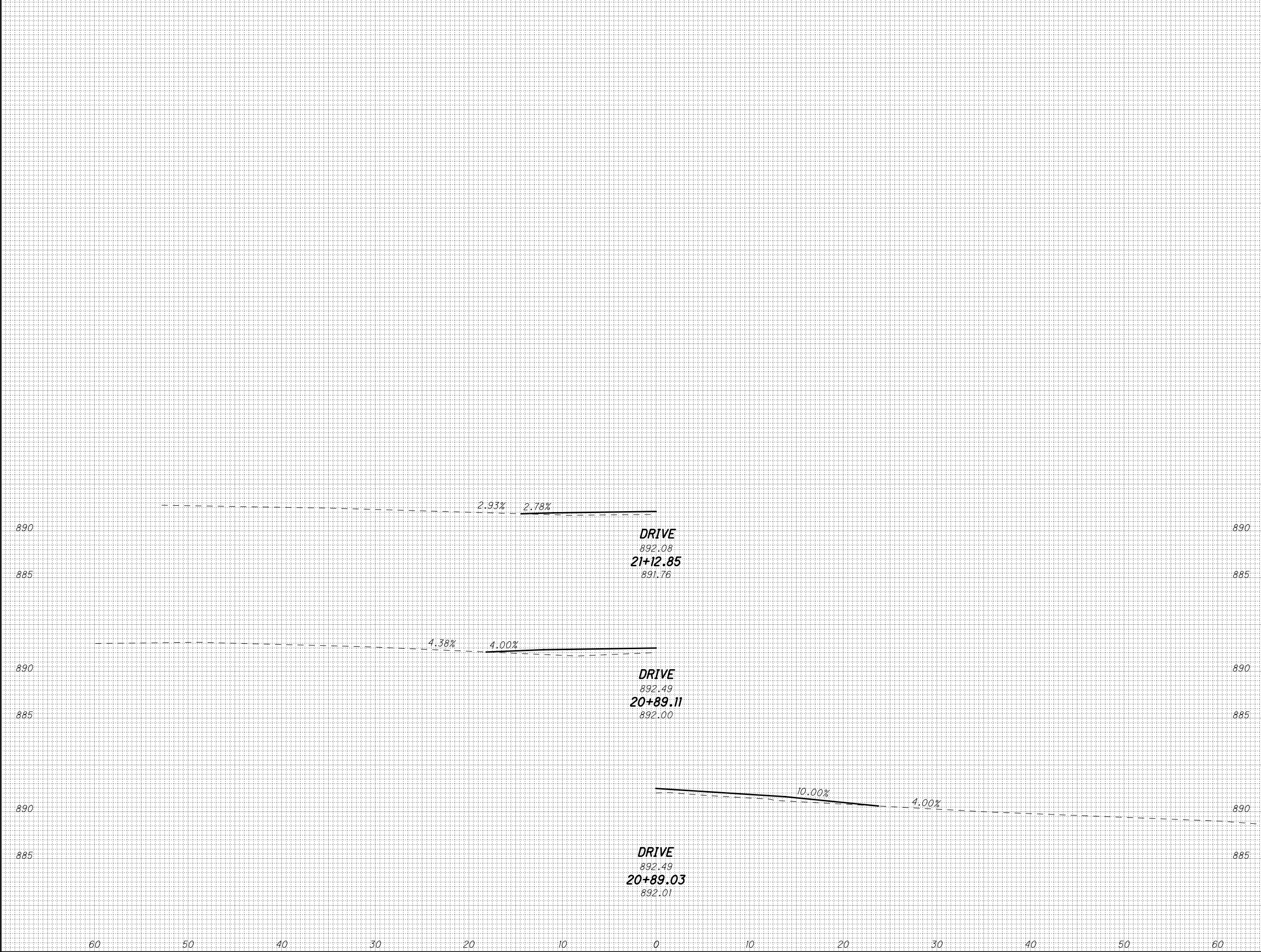
VOLUME CUT FILL

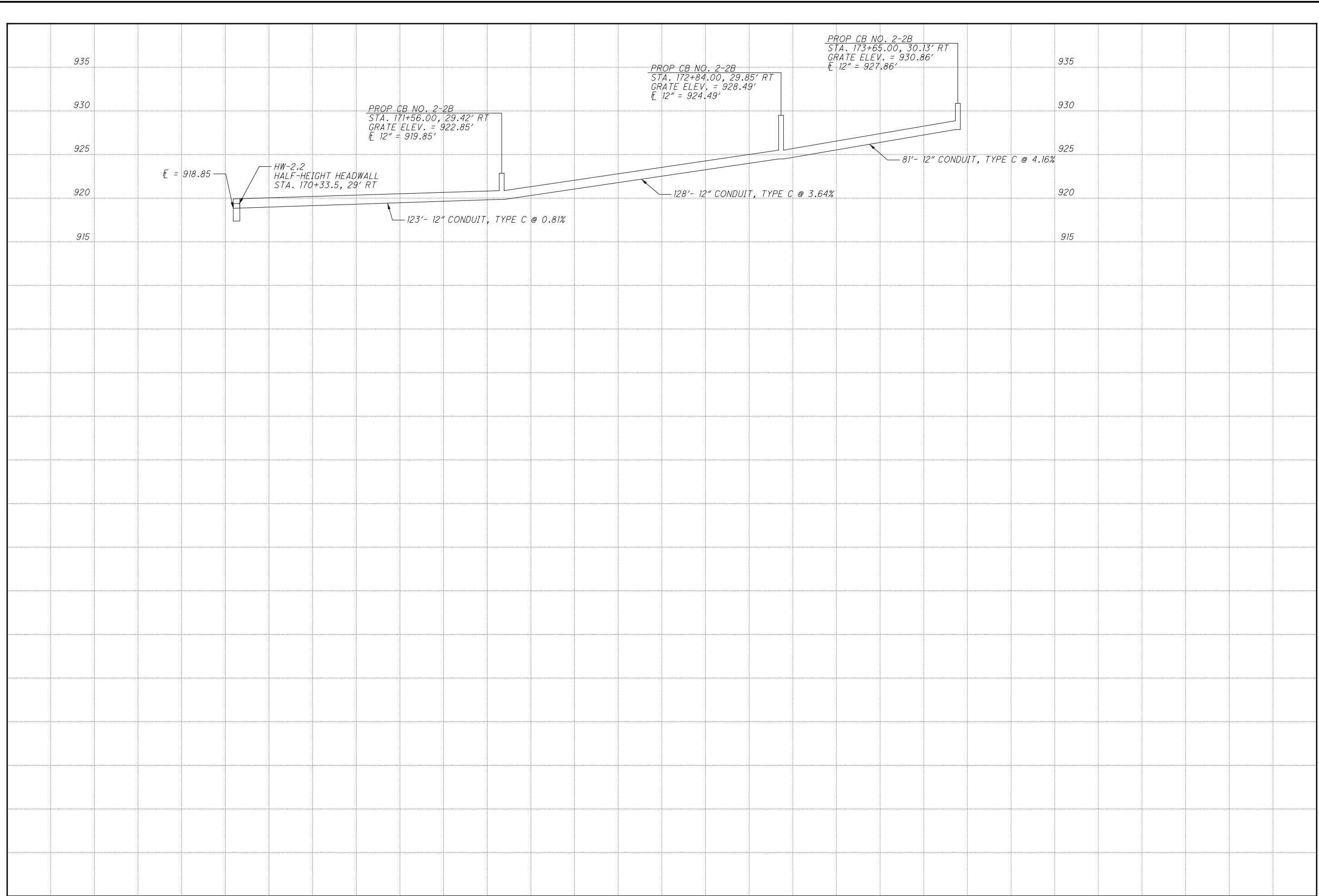
CALCULATED RAT CHECKED JEL

DRIVE PROFILE - IRVING WICK
STA. 20+89.03 TO STA. 21+12.85

LIC-THORNWOOD

272
288





STORM SEWER PROFILE

CALCULATED
MAS
CHECKED
JEL

LIC-THORNWOOD

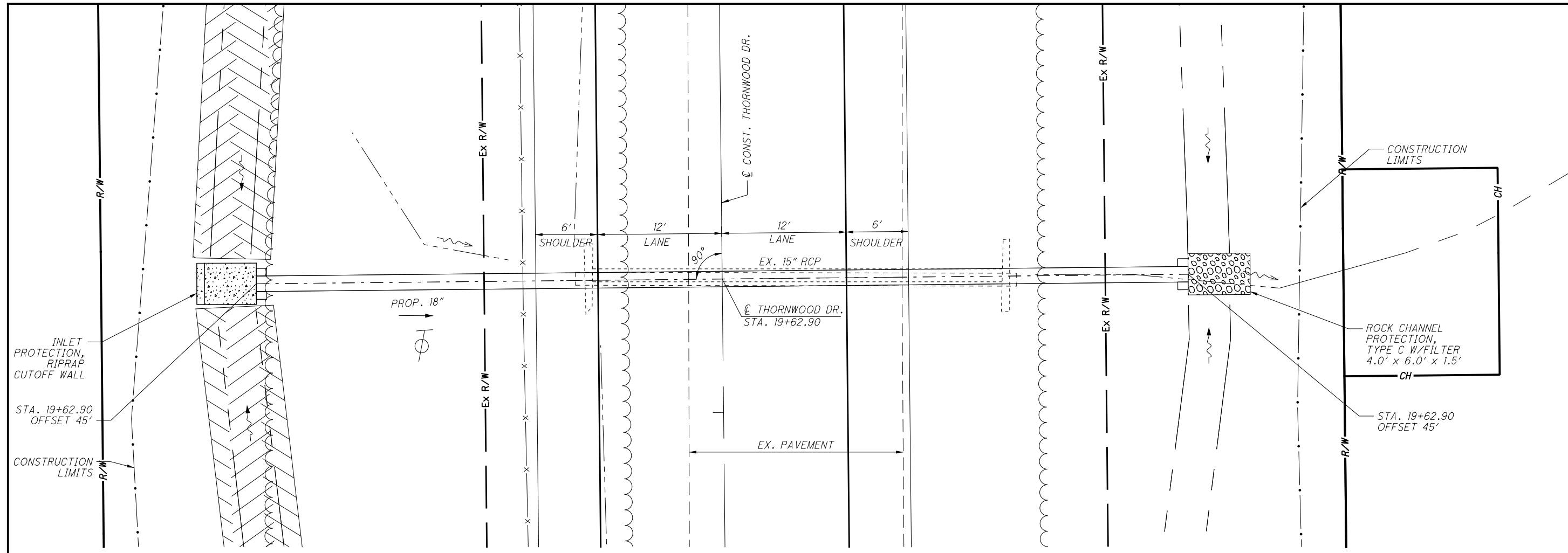


CALCULATED
MAS
CHECKED
JEL

CULVERT DETAIL
CULVERT #1 STA. 19+62.90

LIC-THORNWOOD

274
288

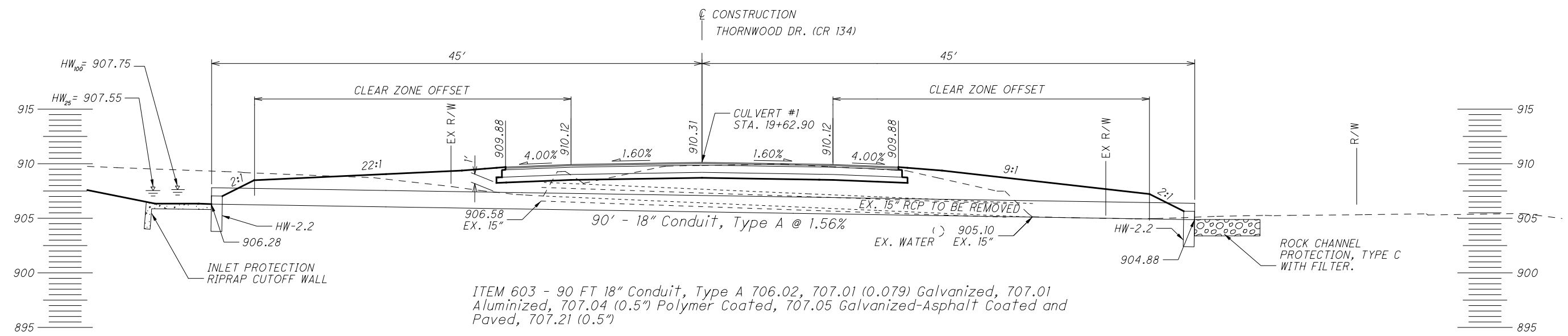


EXISTING STRUCTURE
TYPE: 15" REINFORCED CONCRETE PIPE SKEW: 1° L.F. ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 18" PIPE SKEW: 0° L.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 5 ACRES Q(25): 5.13 CFS HW(25): 907.55 FT V(25): 7.41 FT/S Q(100): 6.57 CFS HW(100): 907.75 FT V(100): 7.92 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX XXXXXX XXXXXX XXXXXX



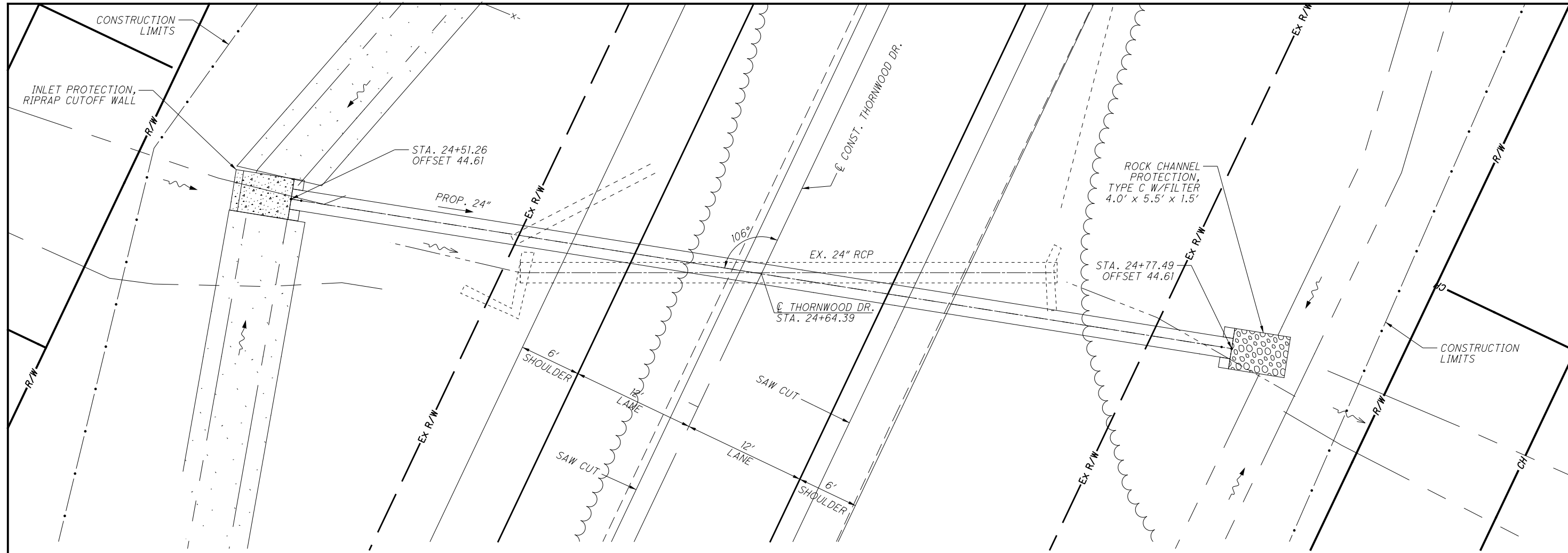
ITEM 603 - 90 FT 18" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.01 Aluminized, 707.04 (0.5") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.21 (0.5")

IP_PWP:dms08245\78116DC001.dgn 28-JUL-2010 1:50PM r.greenland



0 5 10
2.5' HORIZONTAL SCALE IN FEET

CALCULATED
MAS
CHECKED
JEL



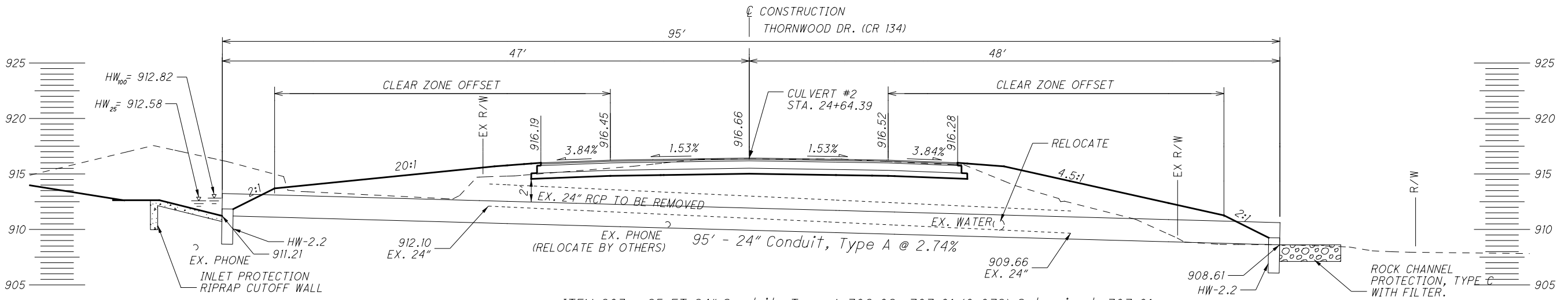
EXISTING STRUCTURE
TYPE: 24" REINFORCED CONCRETE PIPE SKEW: 25° R.F. ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 24" PIPE SKEW: 16° R.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 6 ACRES
Q(25): 7.34 CFS
HW(25): 912.58 FT
V(25): 8.27 FT/S
Q(100): 9.40 CFS
HW(100): 912.82 FT
V(100): 8.84 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX
XXXXXX
XXXXXX
XXXXXX

CULVERT DETAIL
CULVERT #2 STA. 24+64.39



ITEM 603 - 95 FT 24" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.01 Aluminized, 707.04 (0.5") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.21 (0.5")

LIC-THORNWOOD

275
288



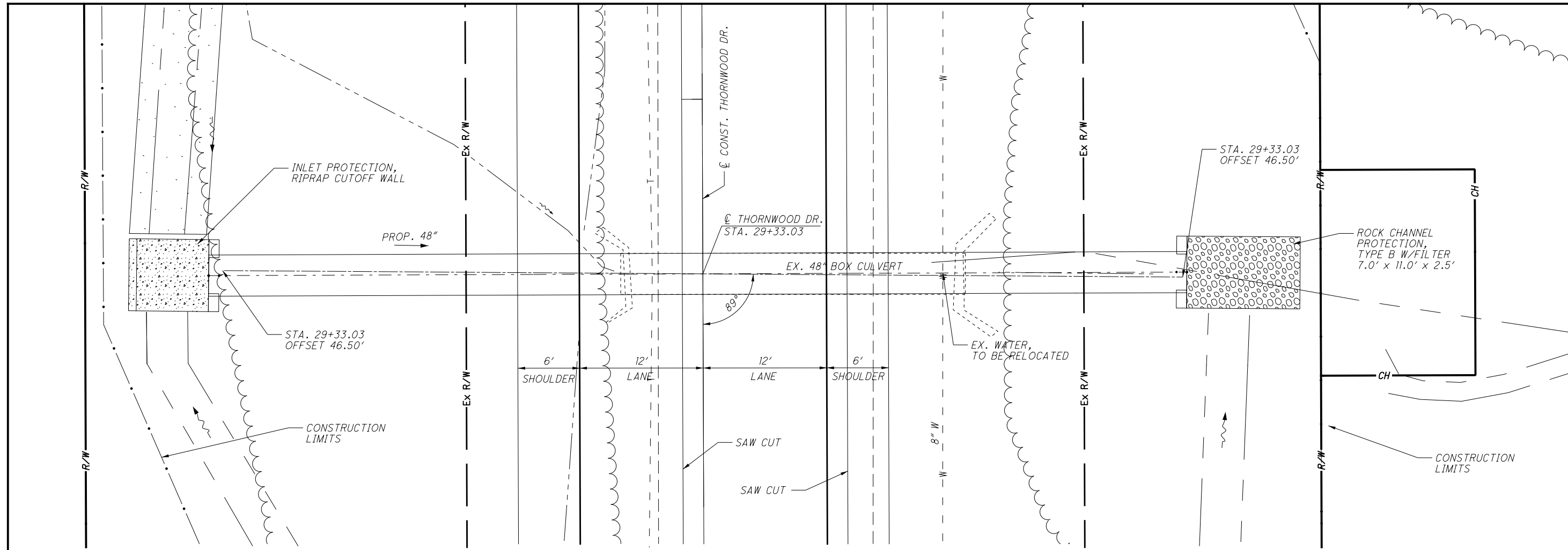
2.5' HORIZONTAL SCALE IN FEET

CALCULATED MMB CHECKED JEL

CULVERT DETAIL
CULVERT #3 STA. 29+33.03

LIC-THORNWOOD

276
288

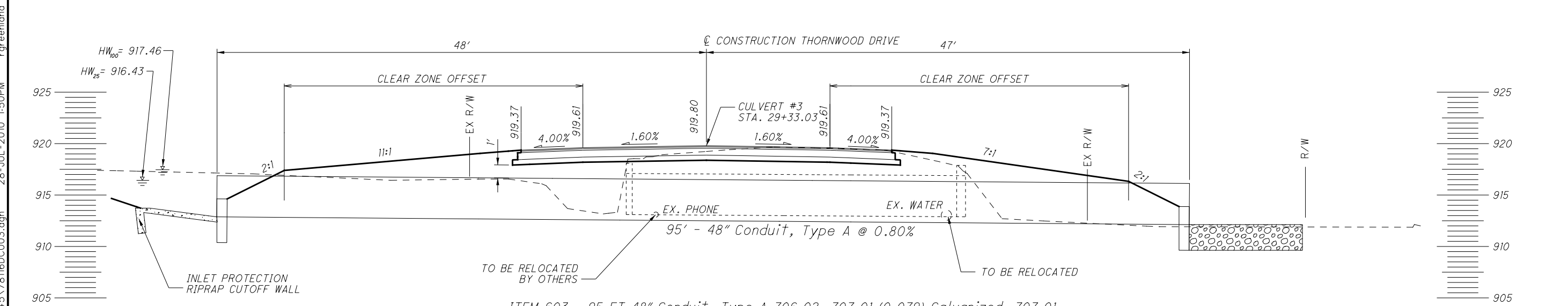


EXISTING STRUCTURE
TYPE: 48" CONCRETE BOX SKEW: 0° L.F. ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 48" PIPE SKEW: 1° L.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 35 ACRES Q(25): 65 CFS HW(25): 916.43 FT V(25): 10.92 FT/S Q(100): 95 CFS HW(100): 917.46 FT V(100): 11.95 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX XXXXXX XXXXXX XXXXXX



ITEM 603 - 95 FT 48" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.01 Aluminized, 707.02 (0.079) Galvanized, 707.02 Aluminized, 707.02 Galvanized with CFP, 707.04 (0.5") Polymer Coated, 707.04 (1") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.07 Galvanized-Asphalt Coated and Paved, 707.21 (0.5") (0.105), 707.22 (1")

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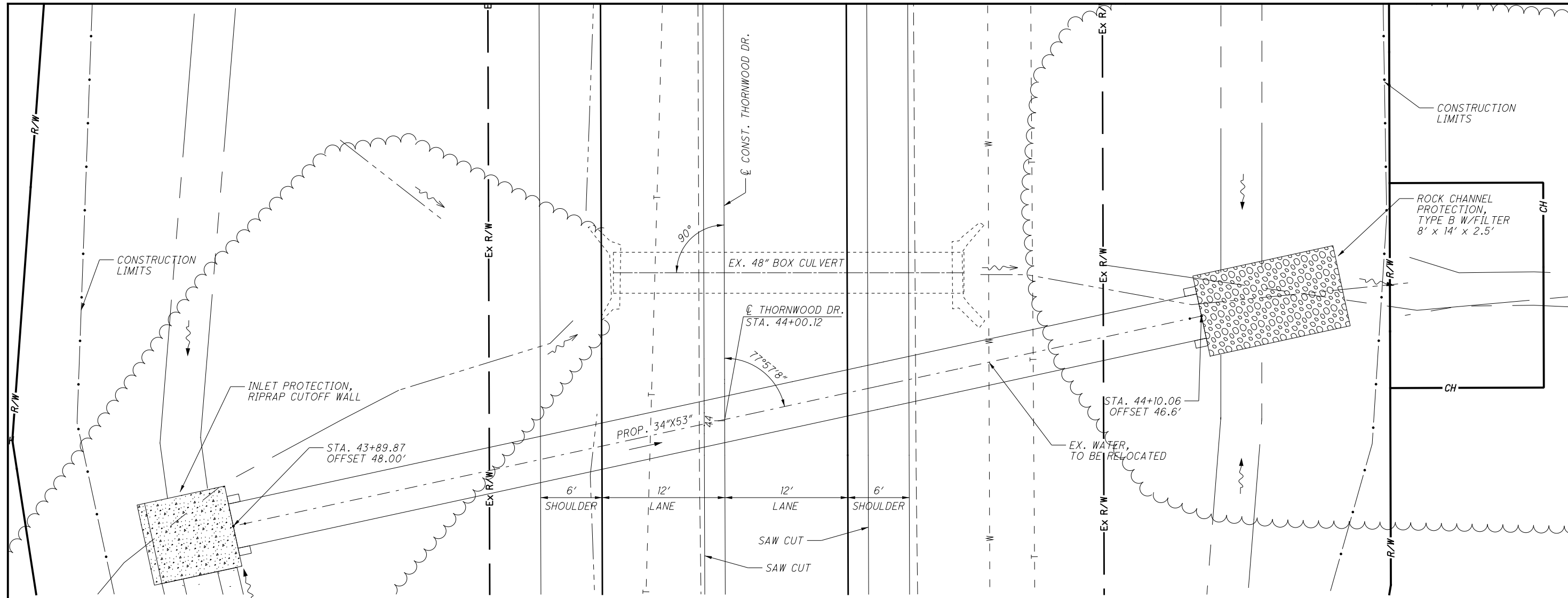
2.5
5
10
HORIZONTAL
SCALE IN FEET

CALCULATED
MIMB
CHECKED
JEL

CULVERT DETAIL
CULVERT #4 STA. 44+00.12

LIC-THORNWOOD

277
288

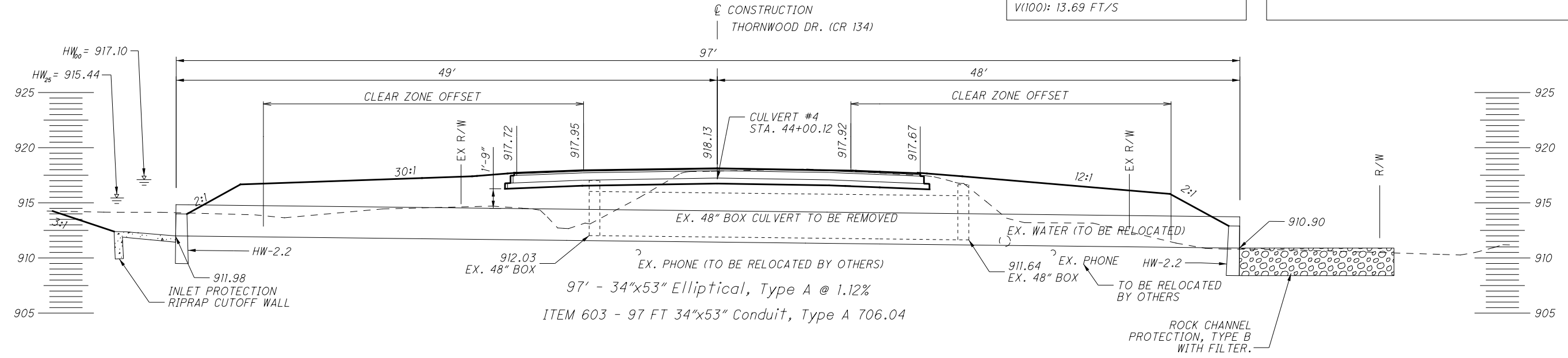


EXISTING STRUCTURE
TYPE: 48" CONCRETE BOX SKEW: 0° L.F. ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 34"x53" ELLIPTICAL PIPE SKEW: 12°2'52" R.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 43 ACRES
Q(25): 70 CFS
HW(25): 915.44 FT
V(25): 12.40 FT/S
Q(100): 103 CFS
HW(100): 917.10 FT
V(100): 13.69 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX
XXXXXX
XXXXXX
XXXXXX



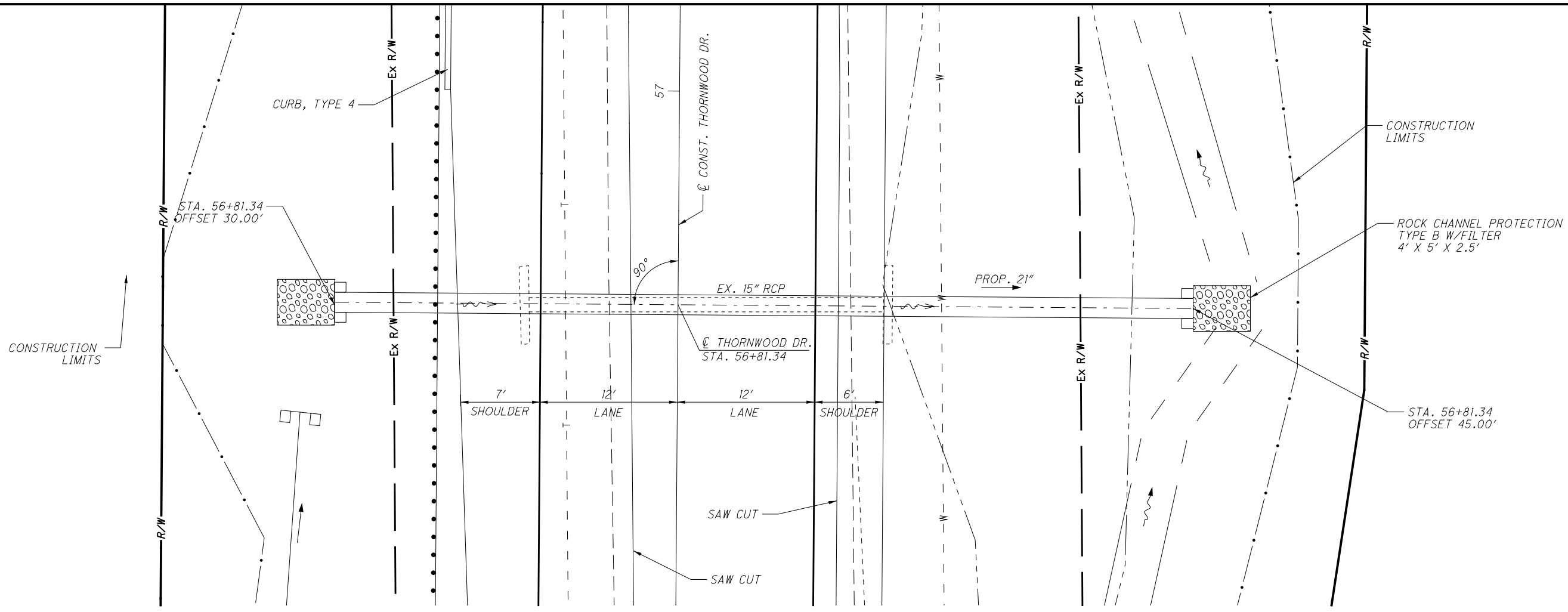
IP_PWP:dms08245\78116DC004.dgn 28-JUL-2010 1:50PM rgreenland



CALCULATED
MIMB
CHECKED
JEL

CULVERT DETAIL
CULVERT #5 STA. 56+81.34

LIC-THORNWOOD

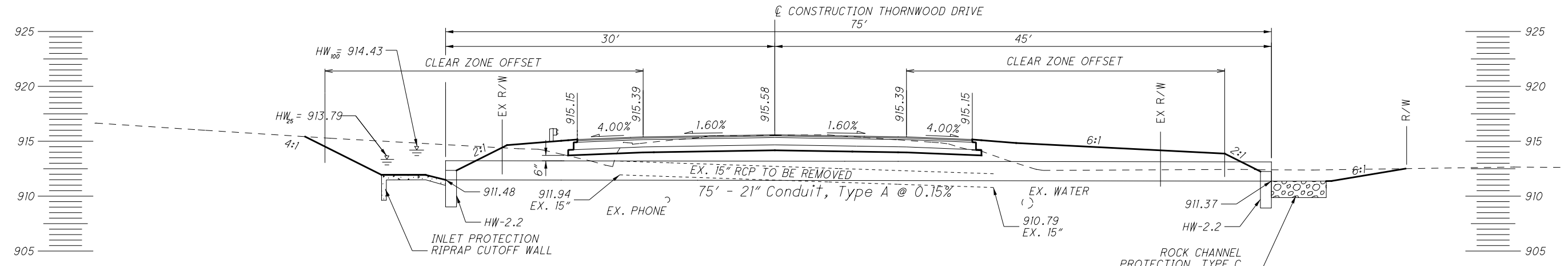


EXISTING STRUCTURE
TYPE: 15" REINFORCED CONCRETE PIPE SKEW: 0° L.F. ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 21" PIPE SKEW: 0° L.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 12 ACRES Q(25): 11.78 CFS HW(25): 913.79 FT V(25): 6.25 FT/S Q(100): 14.98 CFS HW(100): 914.43 FT V(100): 7.11 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX XXXXXX XXXXXX XXXXXX



ITEM 603 - 75 FT 21" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.01 Aluminized, 707.04 (0.5") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.21 (0.5")

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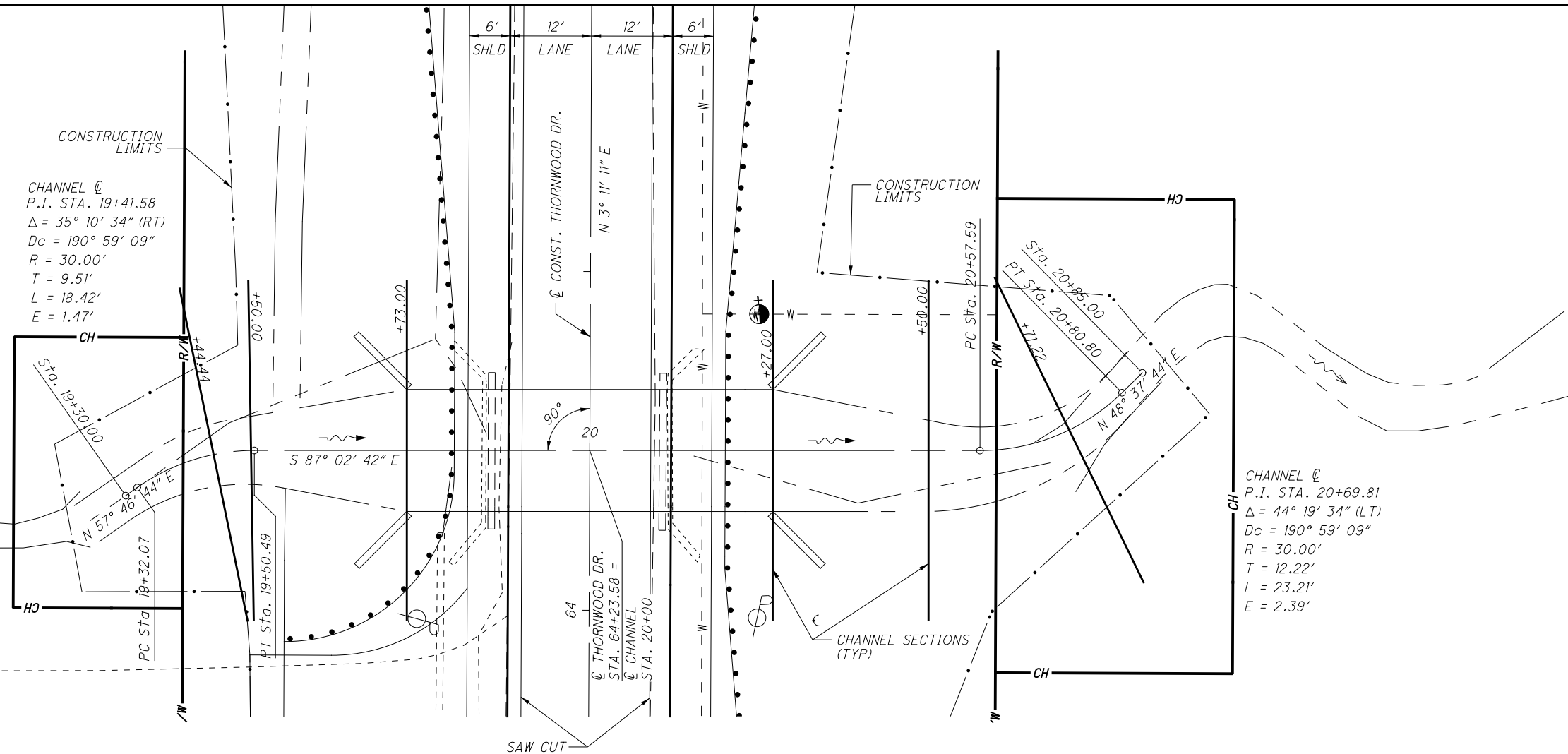


0 5 10 20
HORIZONTAL
SCALE IN FEET

CALCULATED
RAT
CHECKED
JEL

BOX CULVERT DETAIL
CULVERT #6 STA. 64+23.58

LIC-THORNWOOD

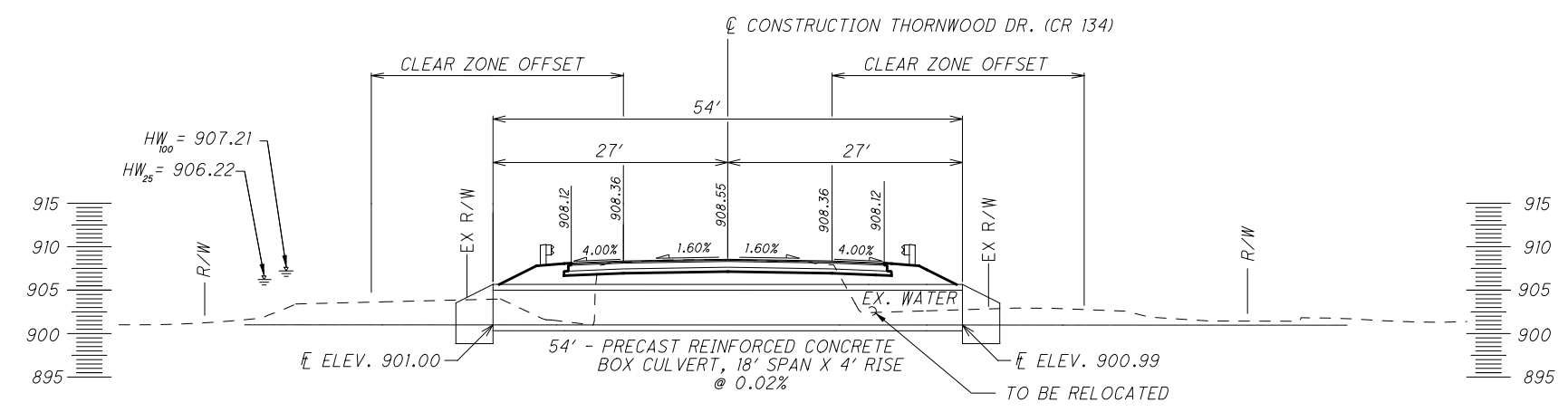


EXISTING STRUCTURE
TYPE: 22' SPAN CONCRETE SLAB BRIDGE SFN: 4561708 SKEW: 0° L.F. ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 18'X4' CONCRETE BOX SKEW: 0° L.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 512 ACRES Q(25): 332 CFS HW(25): 906.22 FT V(25): 2.26 FT/S Q(100): 471 CFS HW(100): 907.21 FT V(100): 1.93 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX XXXXXX XXXXXX XXXXXX

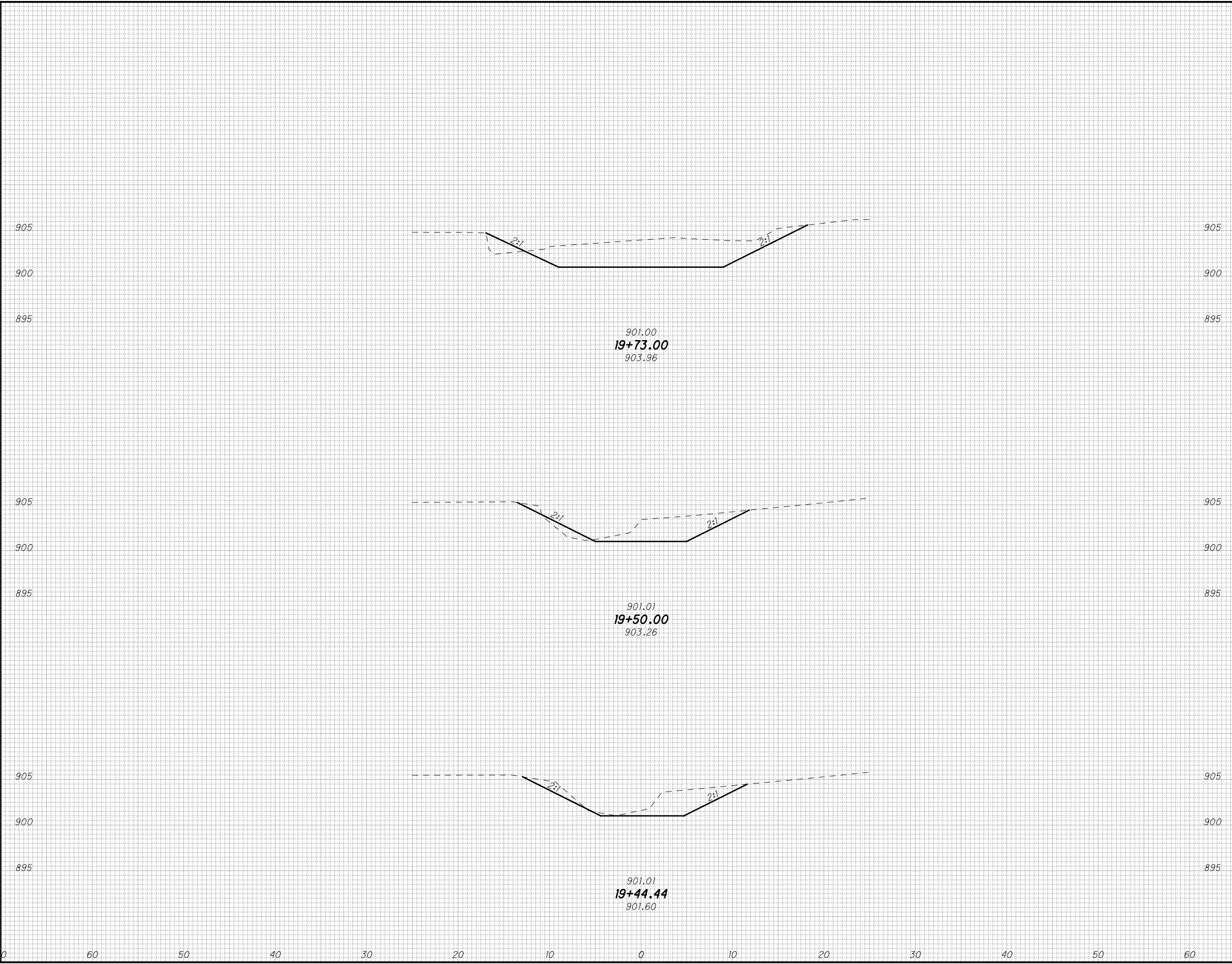


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SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED	CHECKED

CROSS SECTIONS - CULVERT #6
STA. 19+44.44 TO STA. 19+73.00

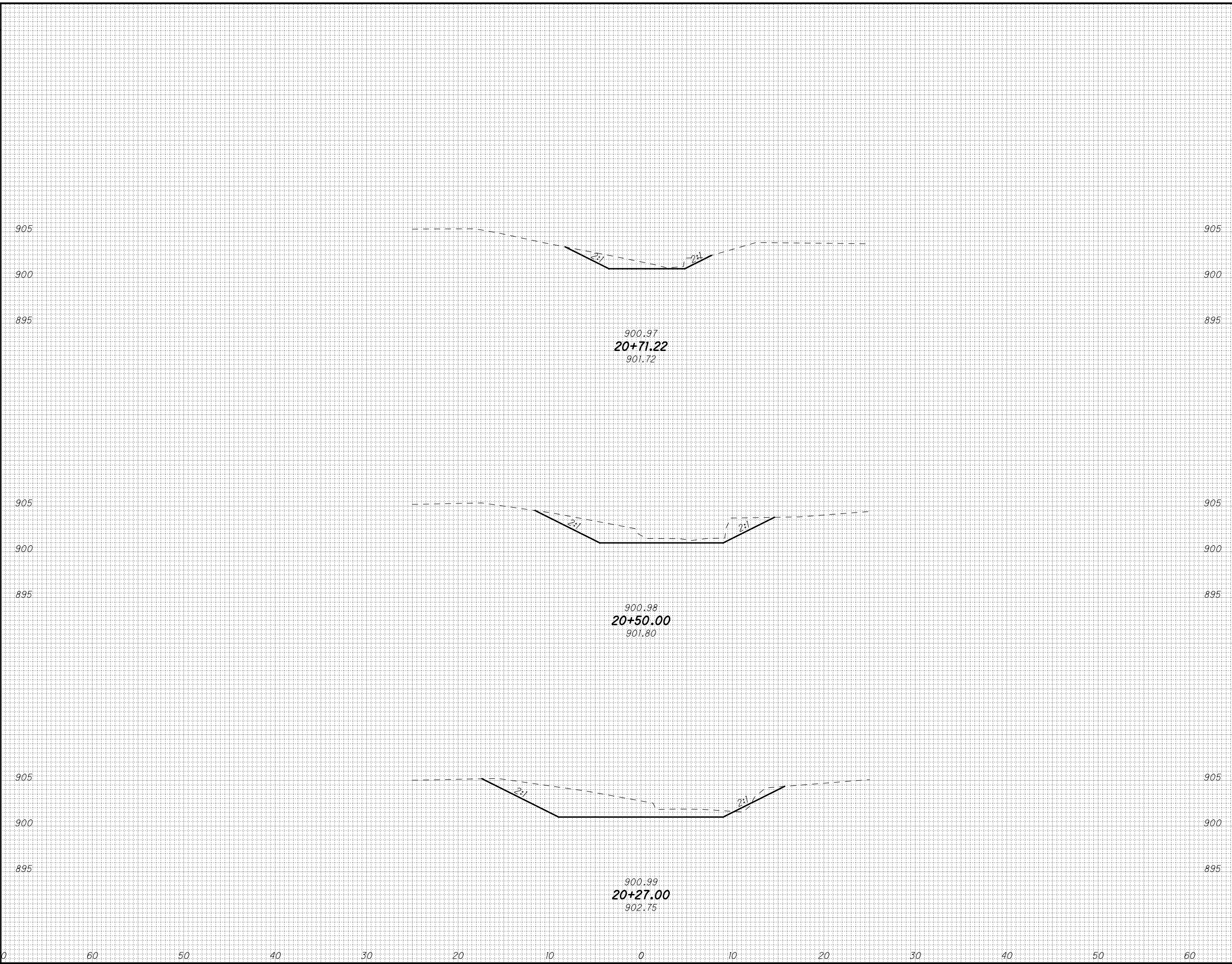
LIC-THORNWOOD

280
288

P:\PWP\dms08245\78116XD002.dgn 28-JUL-2010 1:52PM rgreenland

SEEDING

END WIDTH	SO. YDS.
70	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME		CALCULATED RAT	CHECKED JEL
CUT	FILL	CUT	FILL		

CROSS SECTIONS - CULVERT #6
STA. 20+27.00 TO STA. 20+71.22

LIC-THORNWOOD

(281)
288



2.5' HORIZONTAL SCALE IN FEET

CALCULATED MMB CHECKED JEL

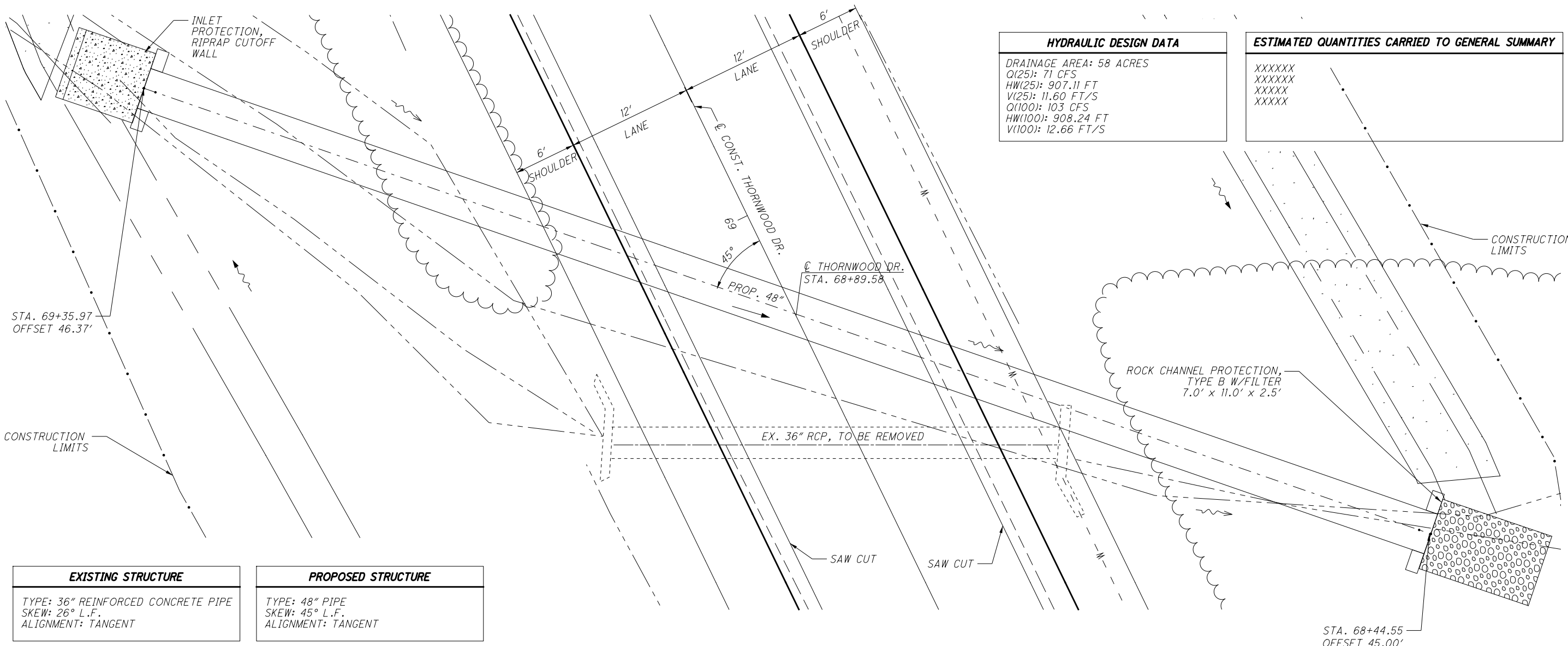
CULVERT DETAIL
CULVERT #7 STA. 68+89.53

LIC-THORNWOOD

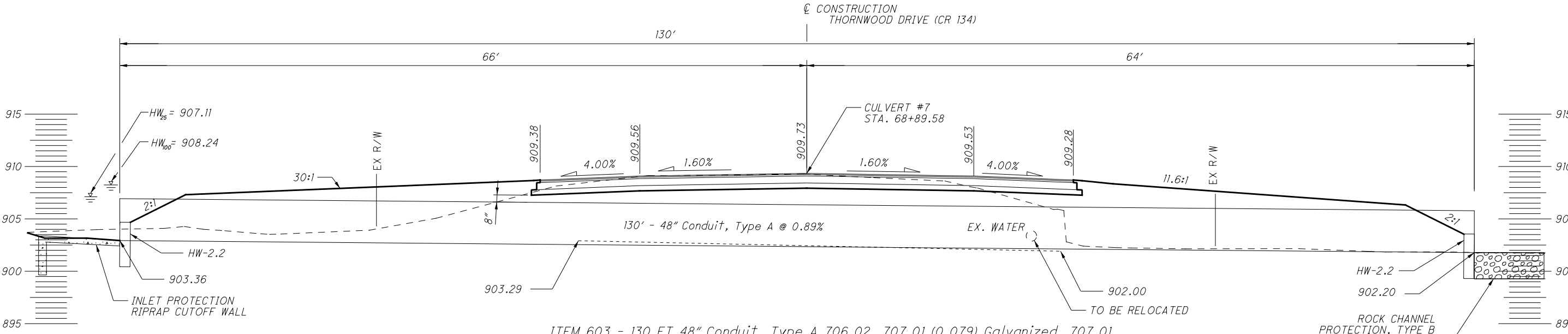
282
288

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 58 ACRES
Q(25): 71 CFS
HW(25): 907.11 FT
V(25): 11.60 FT/S
Q(100): 103 CFS
HW(100): 908.24 FT
V(100): 12.66 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX
XXXXXX
XXXXXX
XXXXXX

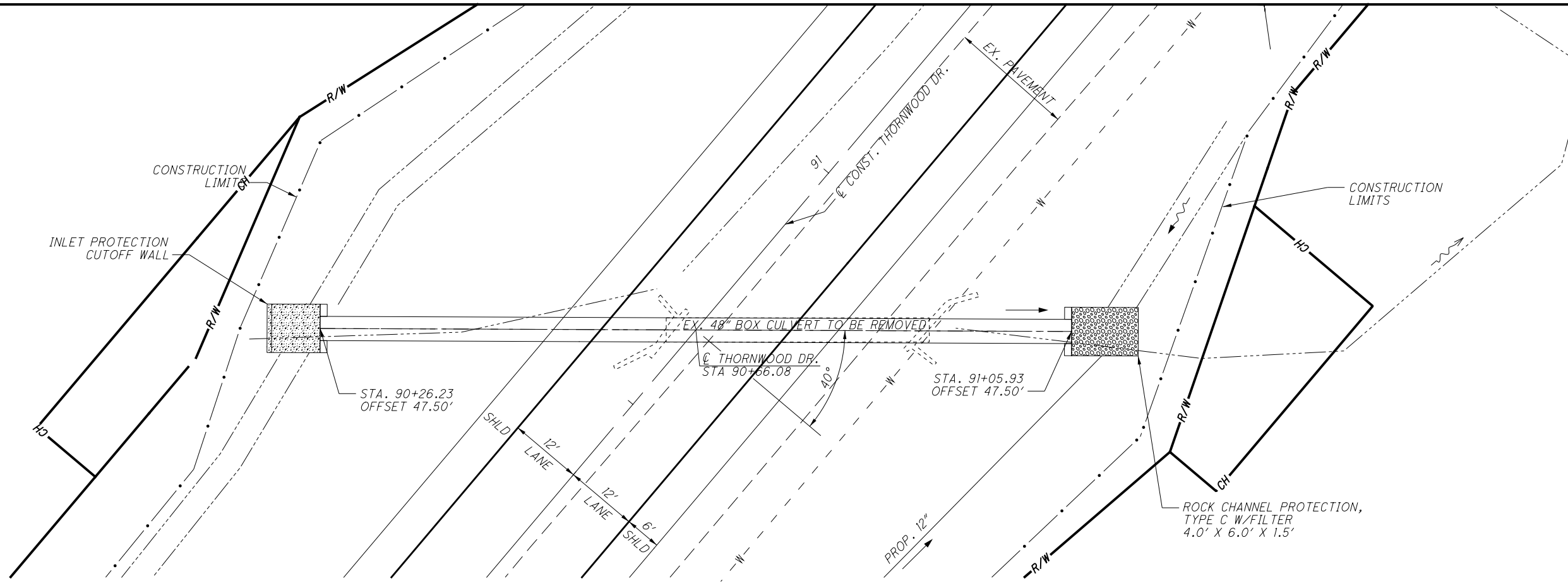


EXISTING STRUCTURE	PROPOSED STRUCTURE
TYPE: 36" REINFORCED CONCRETE PIPE	TYPE: 48" PIPE
SKEW: 26° L.F.	SKEW: 45° L.F.
ALIGNMENT: TANGENT	ALIGNMENT: TANGENT



ITEM 603 - 130 FT 48" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.01 Aluminized, 707.02 (0.079) Galvanized, 707.02 Aluminized, 707.02 Galvanized with CFP, 707.04 (0.5") Polymer Coated, 707.04 (1") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.07 Galvanized-Asphalt Coated and Paved, 707.21 (0.5") (0.105), 707.22 (1")

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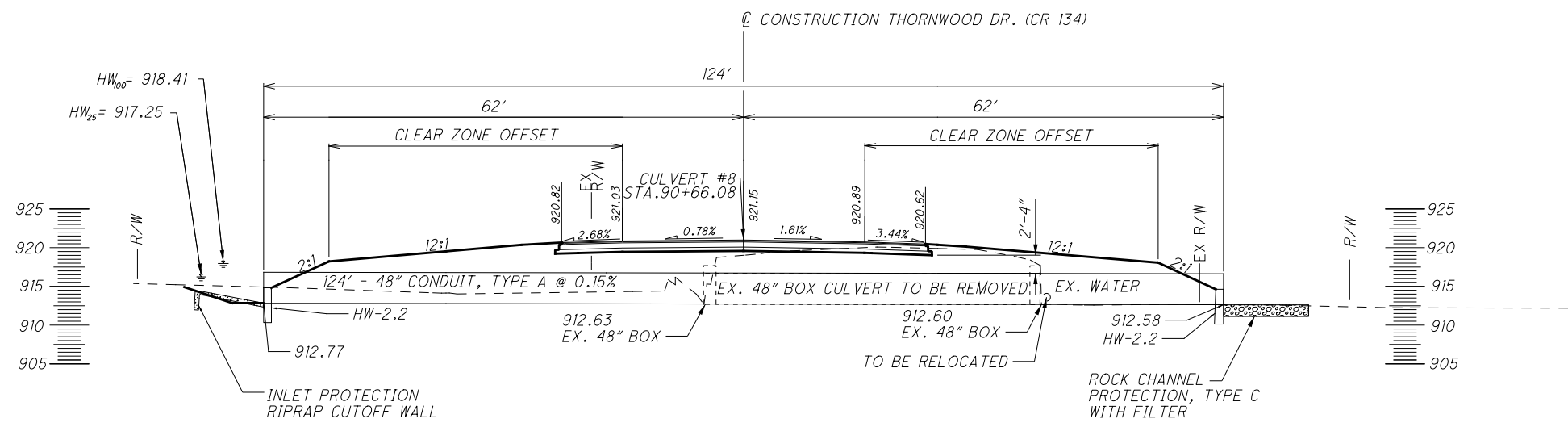
CULVERT DETAIL
CULVERT #8 STA. 90+66.08

EXISTING STRUCTURE
TYPE: 48" CONCRETE BOX SKEW: 40° R.F. ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 48" PIPE SKEW: 40° R.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 83 ACRES
Q(25): 77 CFS
HW(25): 917.25 FT
V(25): 6.53 FT/S
Q(100): 109 CFS
HW(100): 918.41 FT
V(100): 9.25 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX
XXXXXX
XXXXXX
XXXXXX



ITEM 603 - 124 FT 48" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.02 (0.079) Galvanized, 707.02 Aluminized, 707.02 Galvanized with CFP, 707.04 (0.5") Polymer Coated, 707.04 (1") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.07 Galvanized-Asphalt Coated and Paved, 707.21 (0.5") (0.105), 707.22 (1")

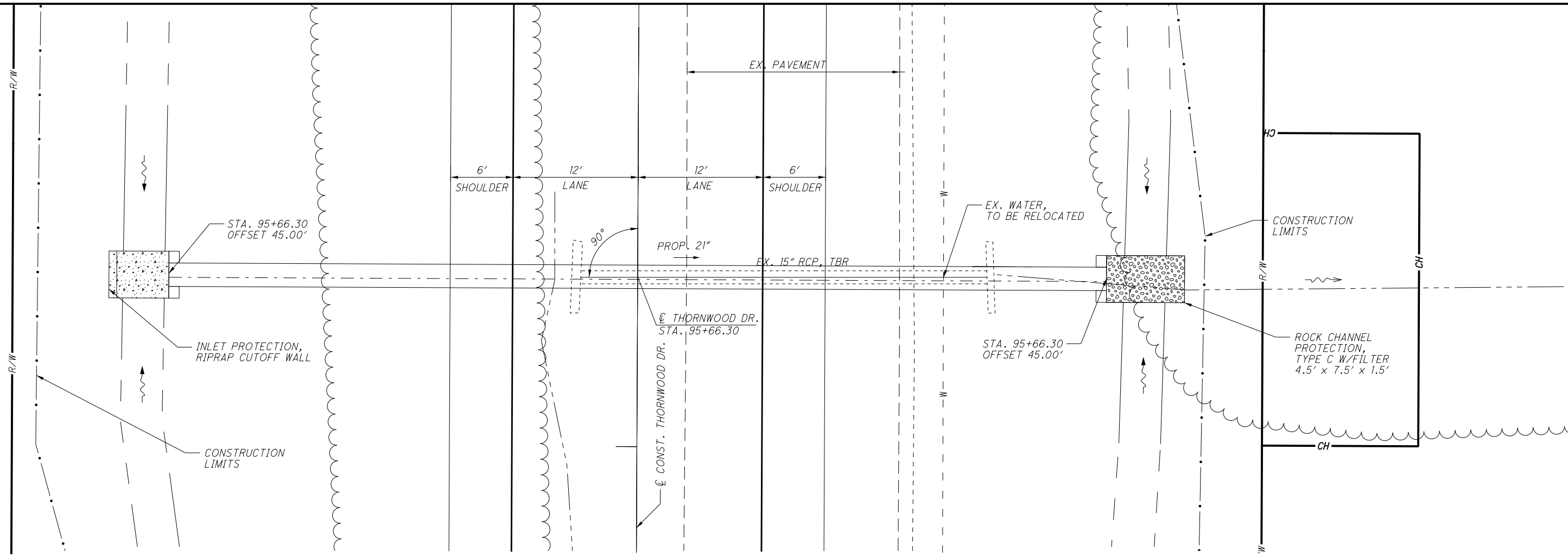
LIC-THORNWOOD



CALCULATED MMB CHECKED JEL

CULVERT DETAIL
CULVERT #9 STA. 95+66.30

LIC-THORNWOOD

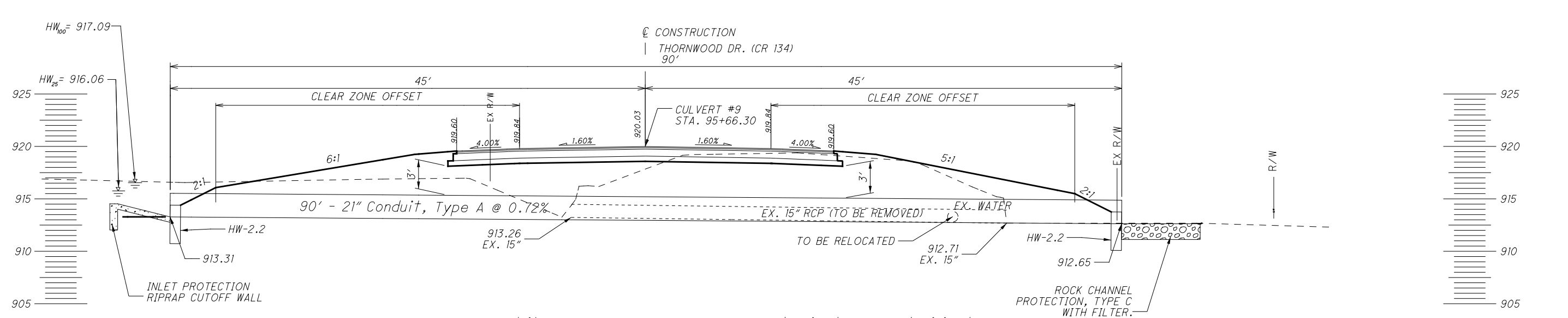


EXISTING STRUCTURE
TYPE: 15" REINFORCED CONCRETE PIPE SKEW: 0° L.F. ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 21" PIPE SKEW: 0° L.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 13 ACRES Q(25): 15.13 CFS HW(25): 916.06 FT V(25): 6.29 FT/S Q(100): 19.38 CFS HW(100): 917.09 FT V(100): 8.06 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX XXXXXX XXXXXX XXXXXX



ITEM 603 - 90 FT 21" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.01 Aluminized, 707.04 (0.5") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.21 (0.5")

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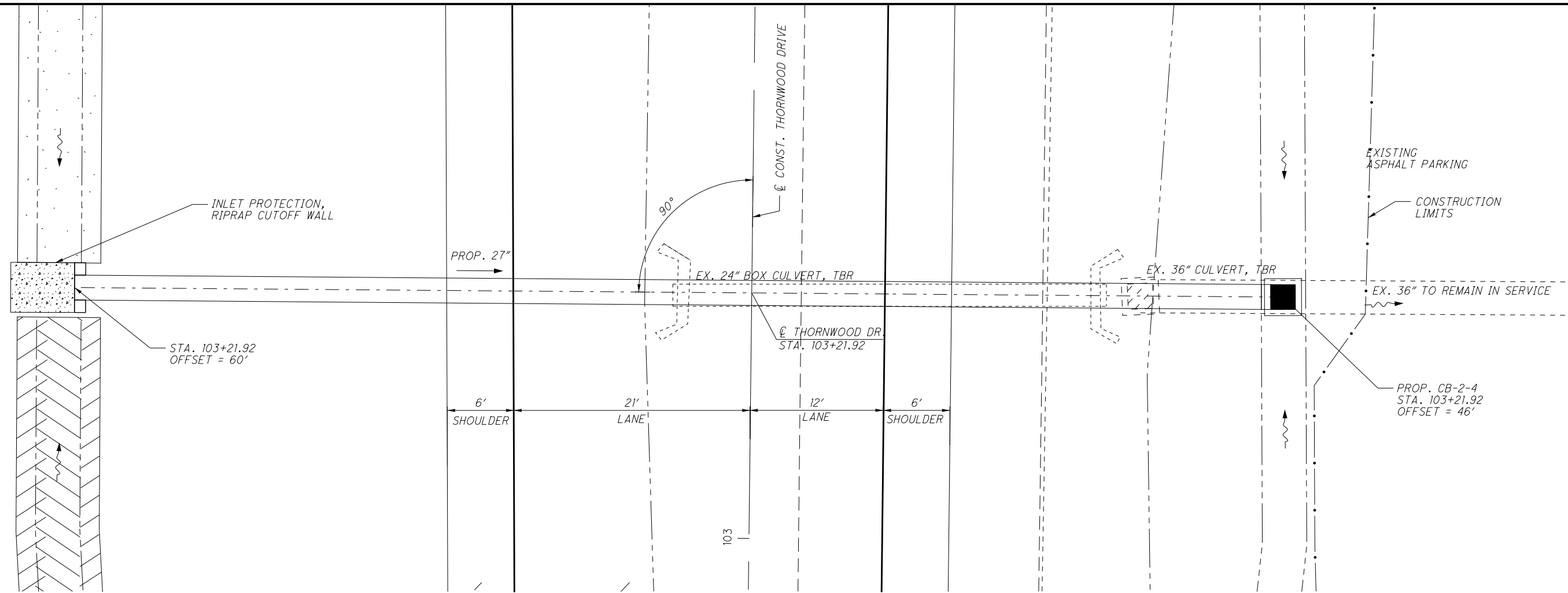
2.5' HORIZONTAL SCALE IN FEET

CALCULATED MMB CHECKED JEL

CULVERT DETAIL
CULVERT #10 STA. 103+21.92

LIC-THORNWOOD

285
288

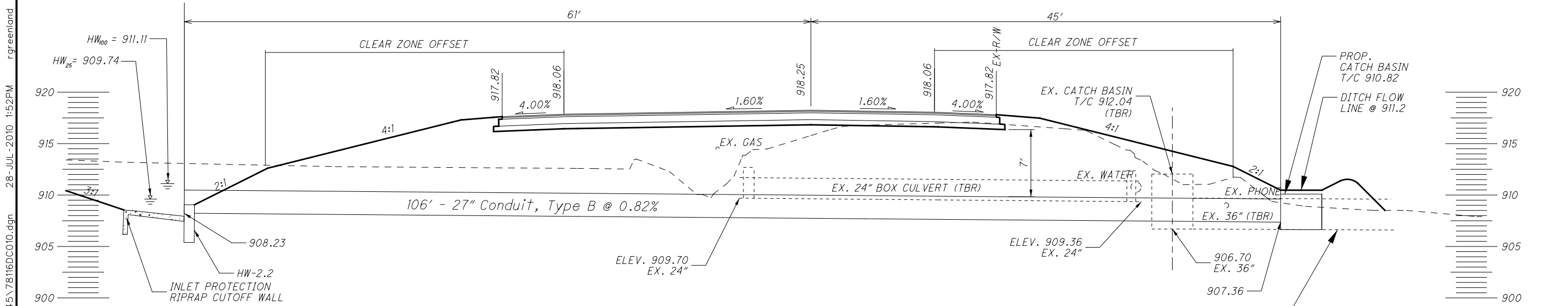


EXISTING STRUCTURE
TYPE: 24" CONCRETE BOX
SKEW: 1° L.F.
ALIGNMENT: TANGENT

PROPOSED STRUCTURE
TYPE: 27" PIPE
SKEW: 0°
ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 10 ACRES
Q(10): 9.2 CFS
HW(10): 909.74 FT
V(10): 6.83 FT/S
Q(100): 11.69 CFS
HW(100): 911.11 FT
V(100): 2.94 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX
XXXXXX
XXXXXX
XXXXXX

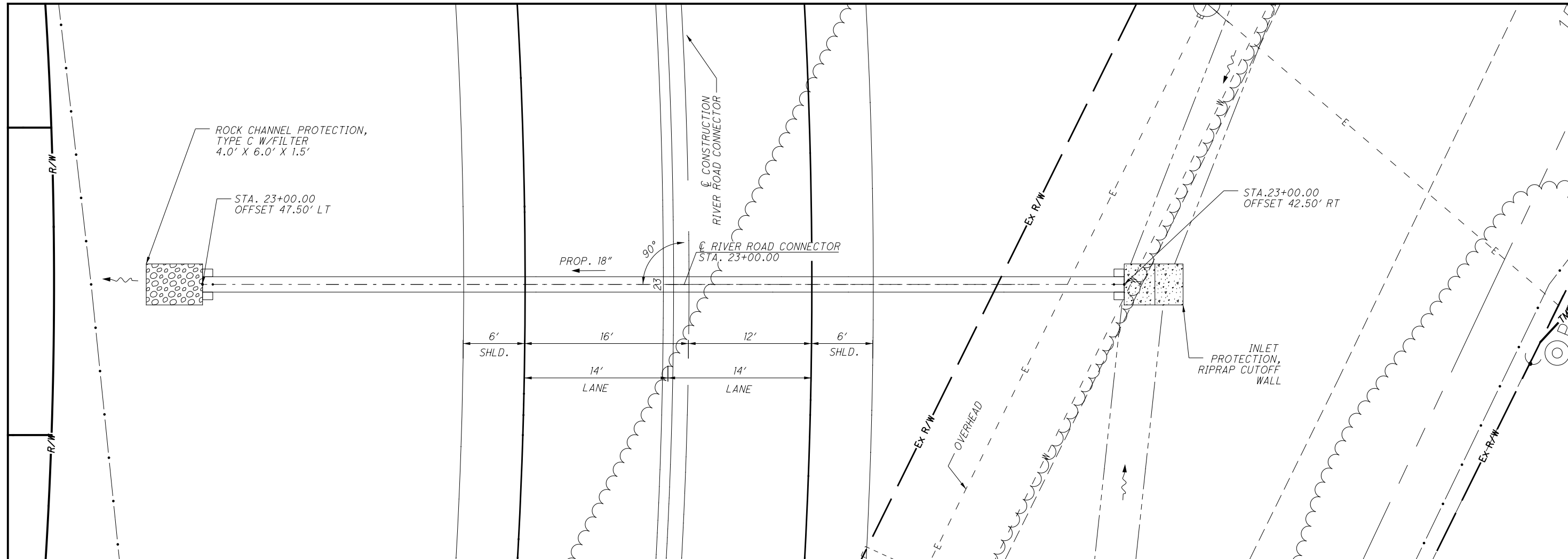


ITEM 603 - 106 FT 27" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.01 Aluminized, 707.04 (0.5") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.21 (0.5") (0.075)

IP_PWP:dms08245\78116DC010.dgn 28-JUL-2010 1:52PM rgreenland



0 5 10
2.5' HORIZONTAL SCALE IN FEET
CALCULATED JEL
CHECKED MMS

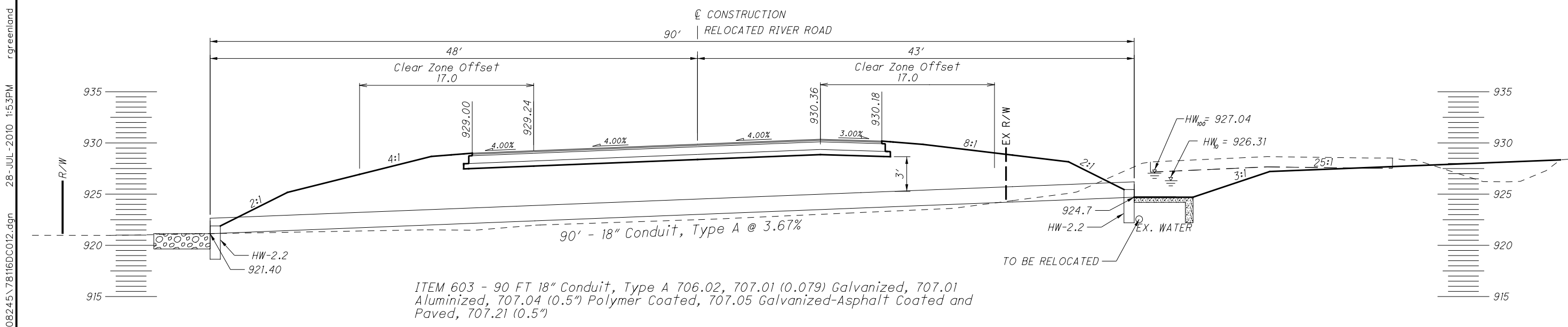


EXISTING STRUCTURE
TYPE: NONE SKEW: NONE ALIGNMENT: NONE

PROPOSED STRUCTURE
TYPE: 18" PIPE SKEW: 0° L.F. ALIGNMENT: TANGENT

HYDRAULIC DESIGN DATA
DRAINAGE AREA: 5.7 ACRES Q(10): 7.51 CFS HW(10): 926.31 FT V(10): 11.20 FT/S Q(100): 11.44 CFS HW(100): 927.04 FT V(100): 12.84 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX XXXXXX XXXXXX XXXXXX



ITEM 603 - 90 FT 18" Conduit, Type A 706.02, 707.01 (0.079) Galvanized, 707.01 Aluminized, 707.04 (0.5") Polymer Coated, 707.05 Galvanized-Asphalt Coated and Paved, 707.21 (0.5")

CULVERT DETAIL
CULVERT #12 STA. 23+00.00

LIC-THORNWOOD

286
288

IP_PWP:dms08245\78116DC012.dgn 28-JUL-2010 1:53PM rgreenland



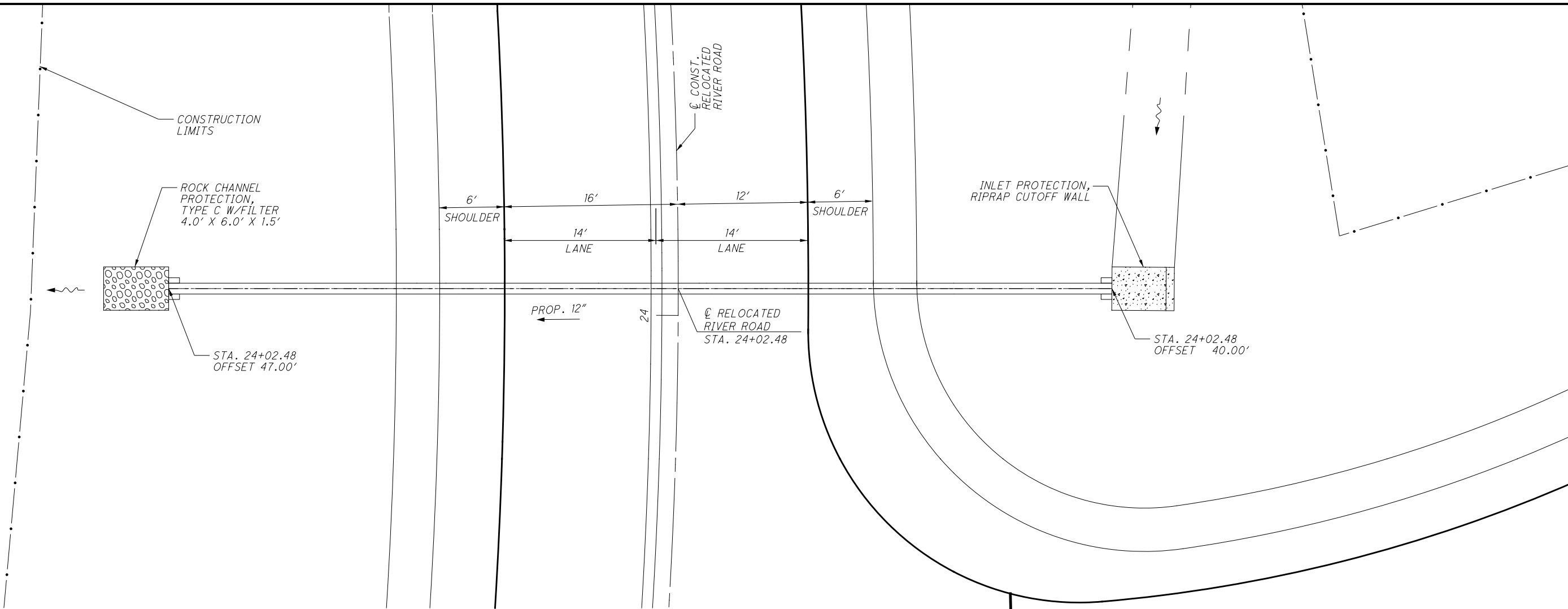
2.5' HORIZONTAL SCALE IN FEET

CALCULATED
JEL
CHECKED
MAS

CULVERT DETAIL
CULVERT #13 STA. 24+02.48

LIC-THORWOOD

287
288

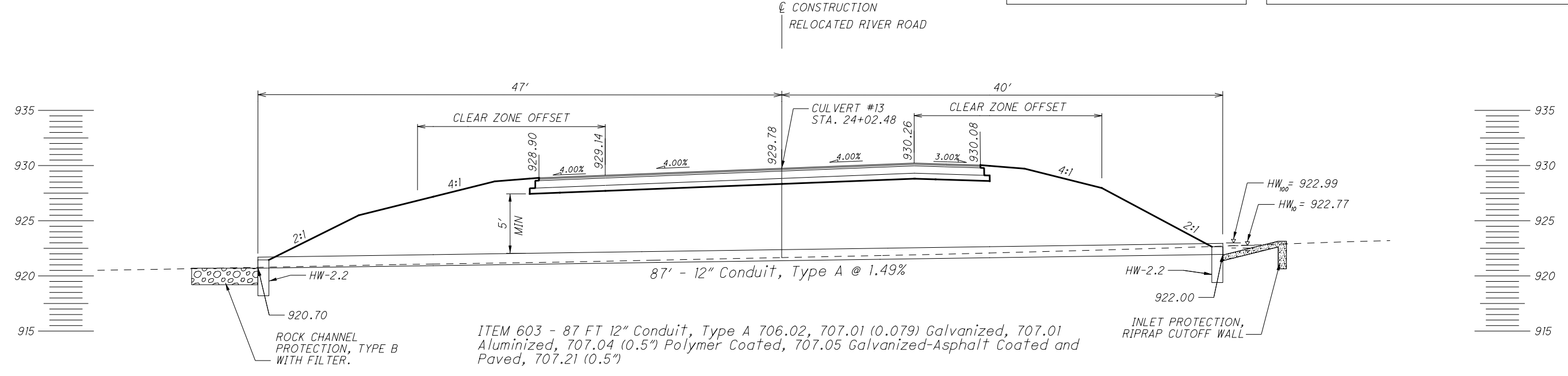


EXISTING STRUCTURE
NONE

PROPOSED STRUCTURE
TYPE: 12" PIPE SKEW: 0° L.F. ALIGNMENT: CURVE

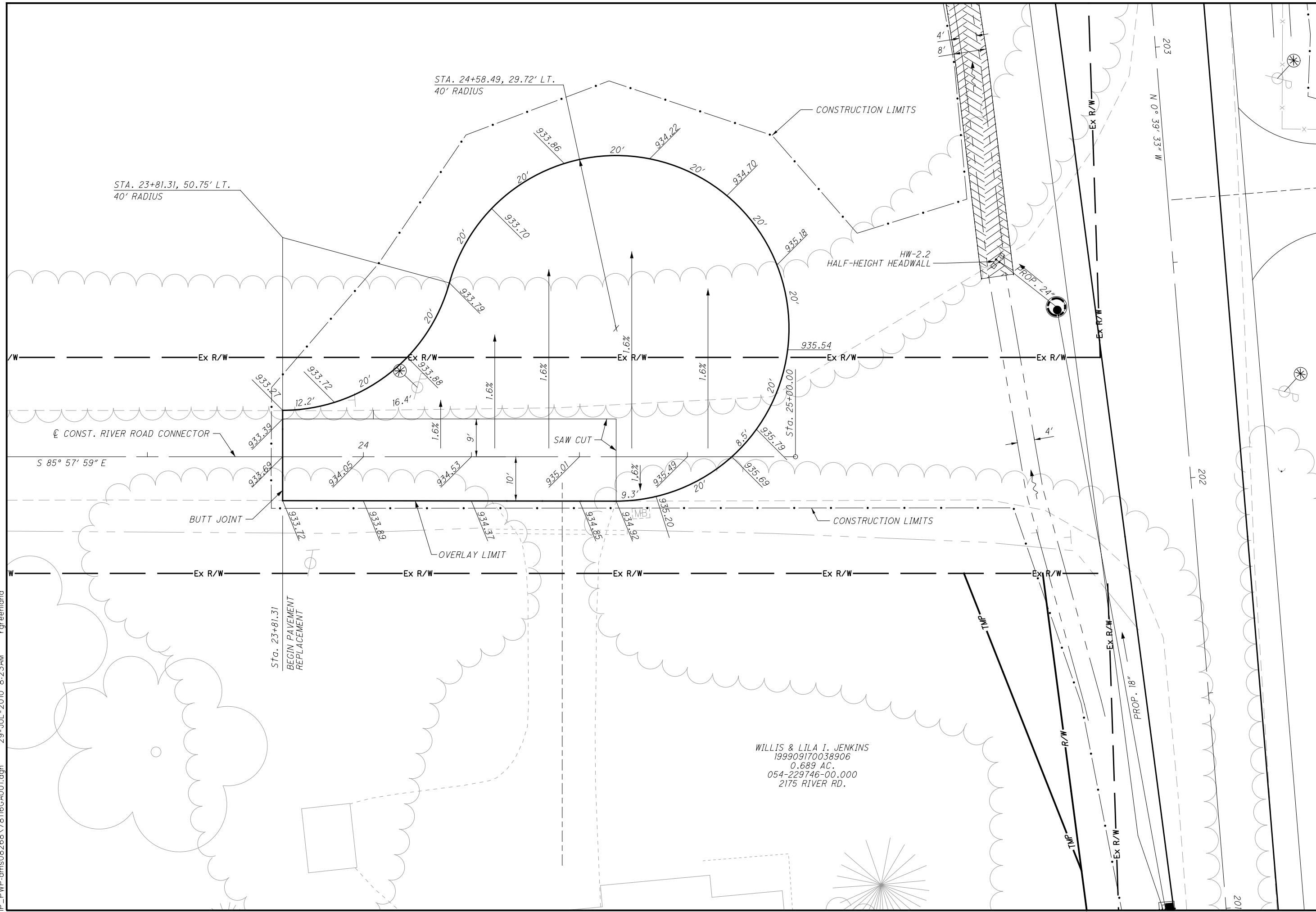
HYDRAULIC DESIGN DATA
DRAINAGE AREA: 1.33 ACRES
Q(10): 1.59 CFS
HW(10): 922.77 FT
V(10): 5.43 FT/S
Q(100): 2.43 CFS
HW(100): 922.99 FT
V(100): 6.05 FT/S

ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY
XXXXXX
XXXXXX
XXXXXX
XXXXXX



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IP_PWP:dms08268\78116GA001.dgn 29-JUL-2010 8:23AM rgreenland



CALCULATED
RAT
CHECKED
JEL

0 5 10 20
HORIZONTAL
SCALE IN FEET

203
N 0° 39' 33" W

PAVEMENT DETAIL
RIVER ROAD CONNECTOR CUL-DE-SAC

LIC-THORNWOOD

288
288

WILLIS & LILA I. JENKINS
199909170038906
0.689 AC.
054-229746-00.000
2175 RIVER RD.