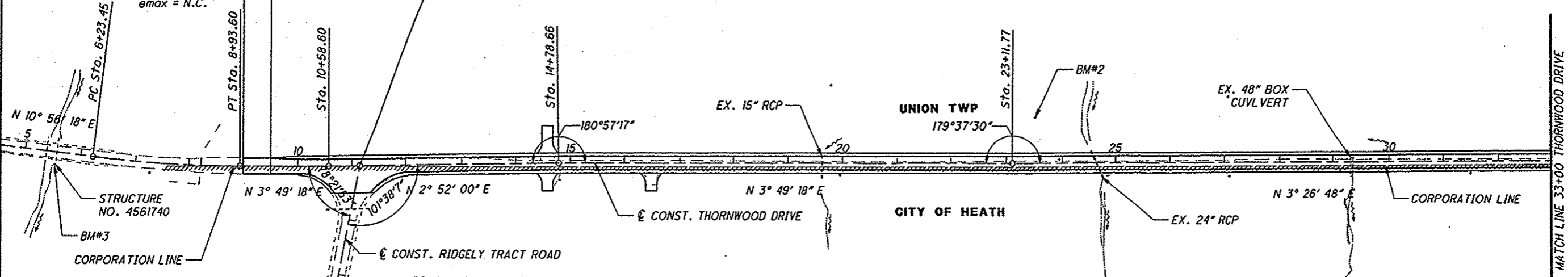


P.I. STA. 7+58.70
 $\Delta = 7^\circ 07' 00''$ (LT)
 $Dc = 2^\circ 38' 04''$
 $R = 2,174.92'$
 $T = 135.25'$
 $L = 270.15'$
 $E = 4.20'$
 $\theta_{max} = N.C.$

BEGIN WORK
 STA 9+00.00

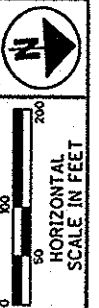
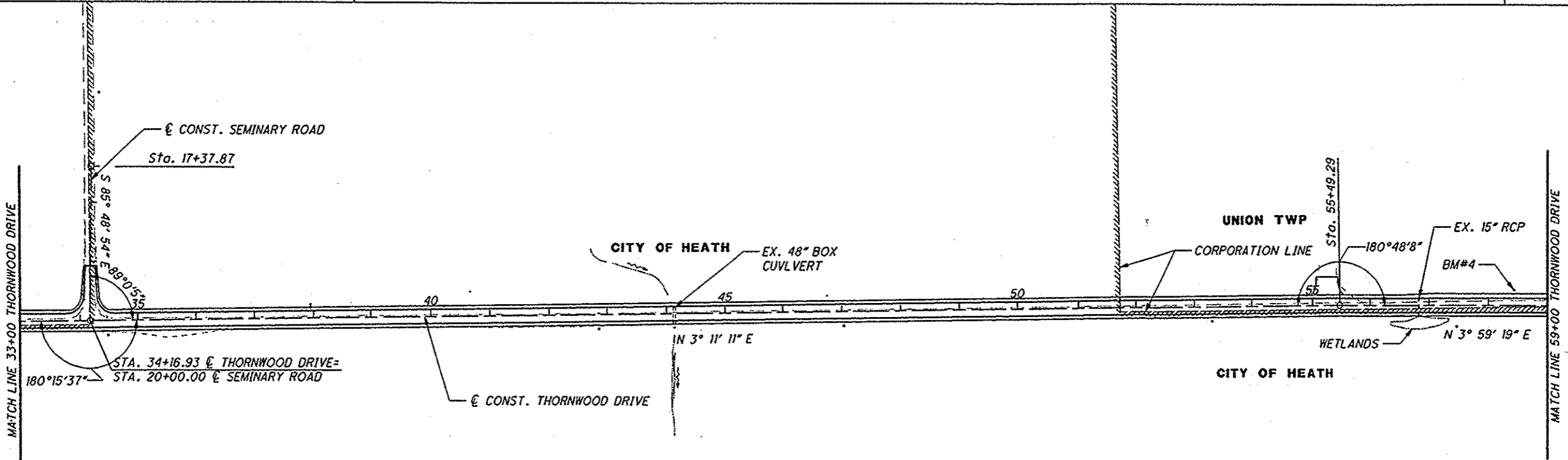
BEGIN PROJECT
 STA 9+50.00

STA. 11+13.69 $\&$ THORNWOOD DRIVE=
 STA. 20+00.00 $\&$ RIDGELY TRACT ROAD



BENCHMARKS

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

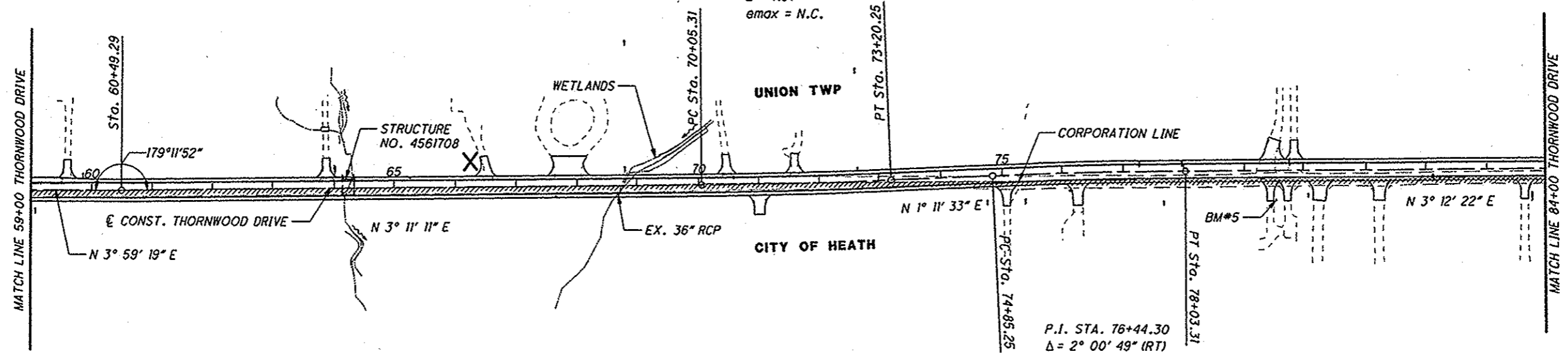


SCHEMATIC PLAN

LIC-THORNWOOD

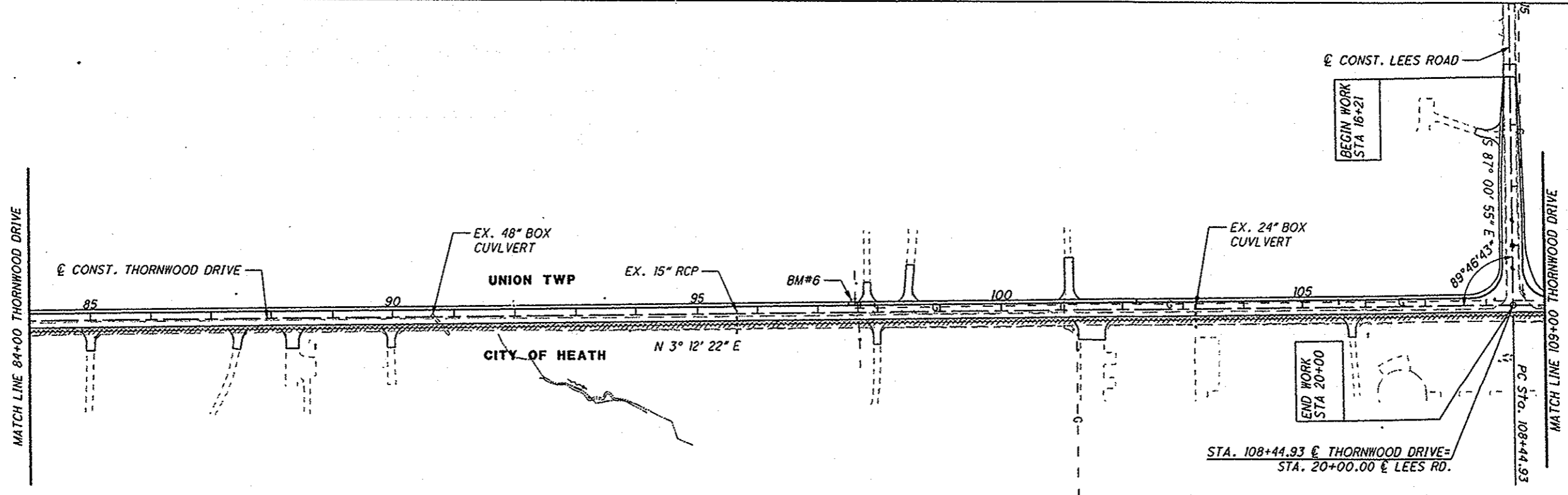
IP_PWP:dms05268\78116GB001.dgn 02-SEP-2009 6:59AM jlove

IP_PWP:dms08288\78116G002.dgn 02-SEP-2009 6:59AM flove

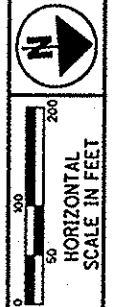


P.I. STA. 71+62.80
 $\Delta = 1^\circ 59' 38''$ (LT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 157.48'$
 $L = 314.93'$
 $E = 1.37'$
 $e_{max} = N.C.$

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



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



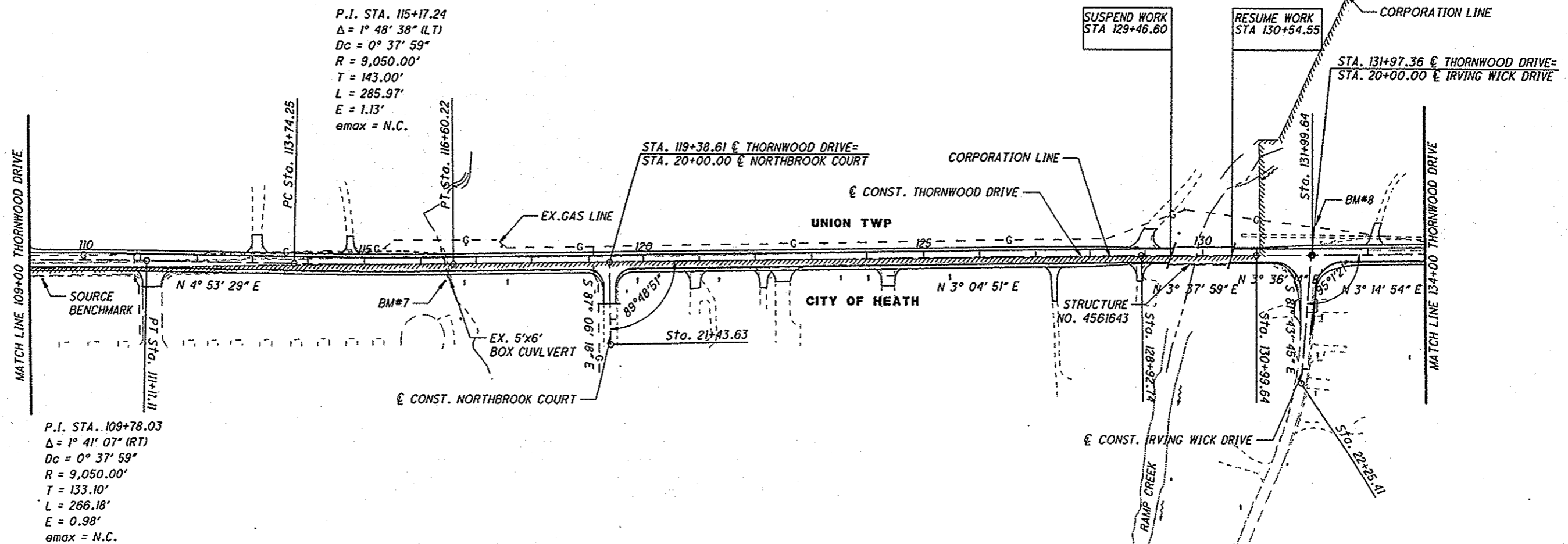
SCHEMATIC PLAN

LIC-THORNWOOD



SCHEMATIC PLAN

LIC-THORNWOOD



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

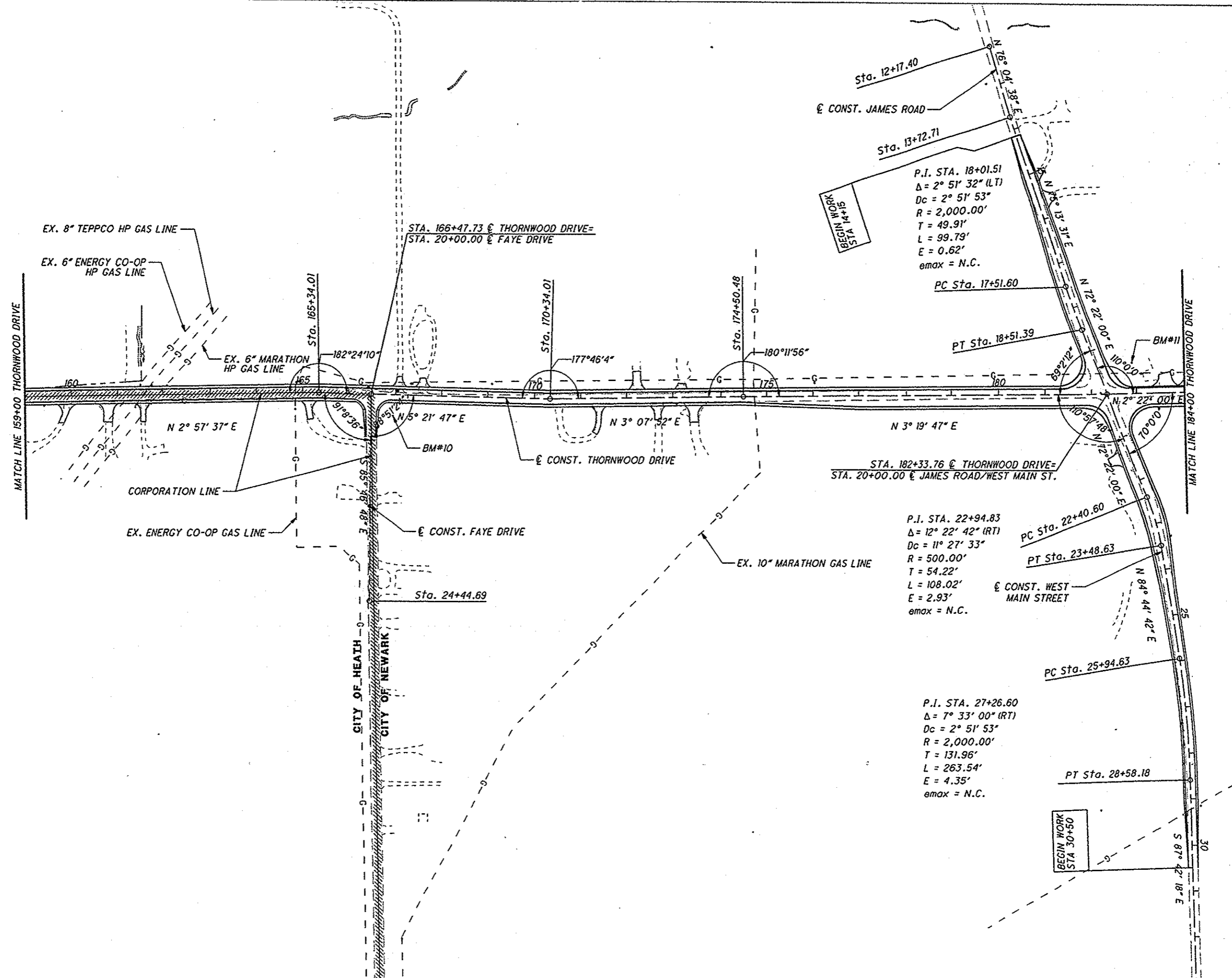
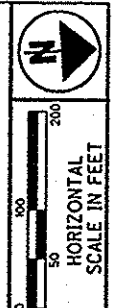
P.I. STA. 109+78.03
 $\Delta = 1^\circ 41' 07''$ (RT)
 $Dc = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 133.10'$
 $L = 266.18'$
 $E = 0.98'$
 $e_{max} = N.C.$

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

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

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

IP_PWP: dms08268\7811608003.dgn 02-SEP-2009 7:00AM jlove



P.I. STA. 18+01.51
Δ = 2° 51' 32" (LT)
Dc = 2° 51' 53"
R = 2,000.00'
T = 49.91'
L = 99.79'
E = 0.62'
emax = N.C.
PC Sta. 17+51.60
PT Sta. 18+51.39

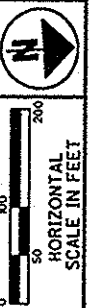
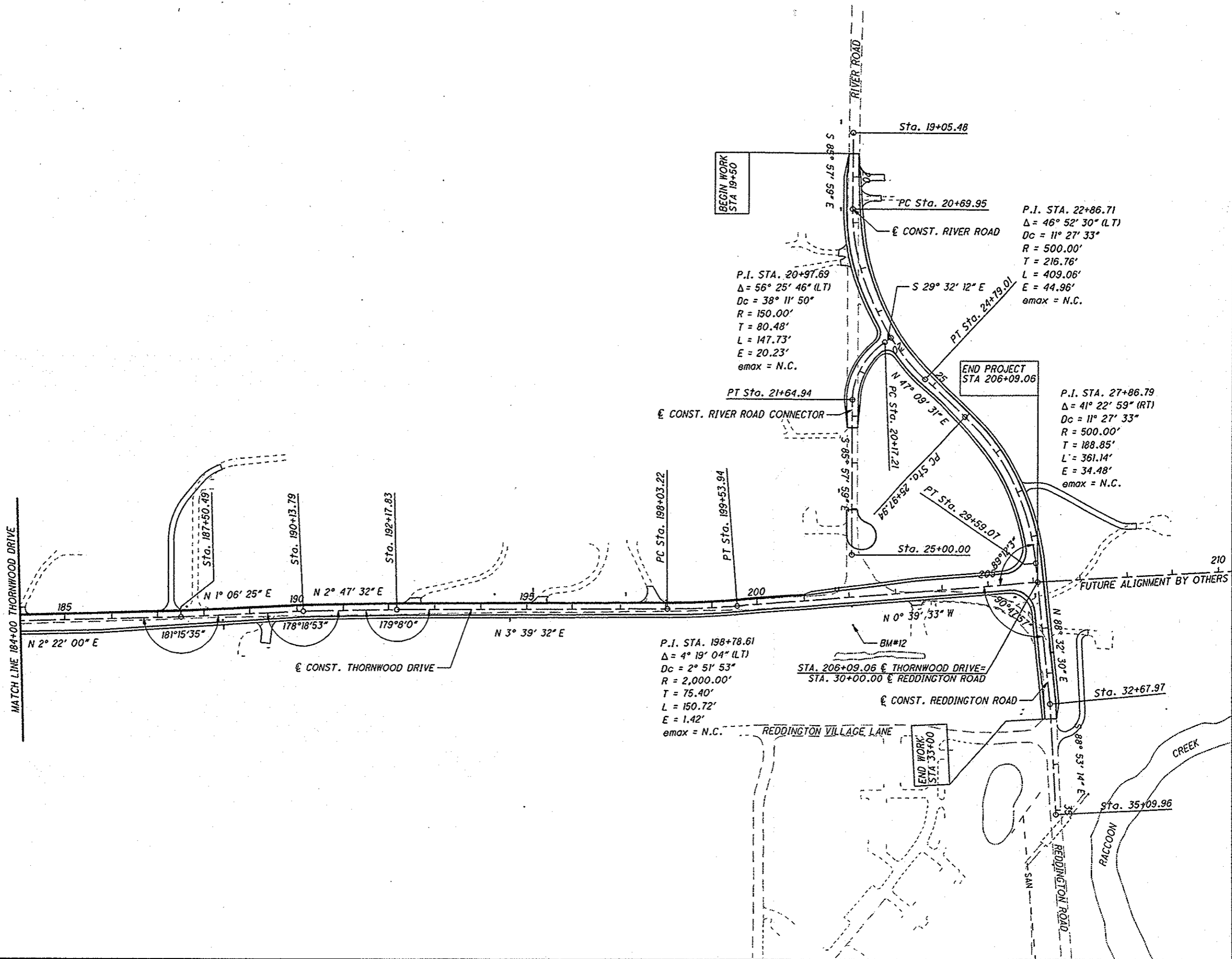
STA. 182+33.76 @ THORNWOOD DRIVE=
STA. 20+00.00 @ JAMES ROAD/WEST MAIN ST.

P.I. STA. 22+94.83
Δ = 12° 22' 42" (RT)
Dc = 11° 27' 33"
R = 500.00'
T = 54.22'
L = 108.02'
E = 2.93'
emax = N.C.
PC Sta. 22+40.60
PT Sta. 23+48.63

P.I. STA. 27+26.60
Δ = 7° 33' 00" (RT)
Dc = 2° 51' 53"
R = 2,000.00'
T = 131.96'
L = 263.54'
E = 4.35'
emax = N.C.
PT Sta. 28+58.18

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

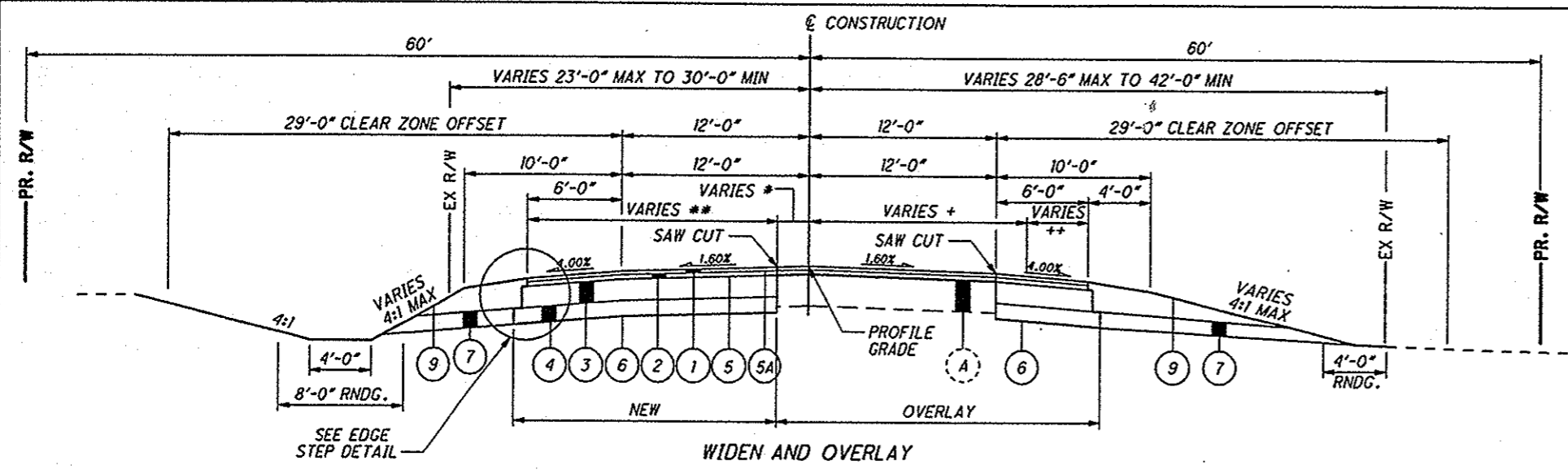
LEES ROAD

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

LEGEND

- (A) EXISTING ASPHALT PAVEMENT
- (1) ITEM 404 - 1/4" ASPHALT CONCRETE
- (2) ITEM 402 - 1 1/4" ASPHALT CONCRETE
- (3) ITEM 301 - 9" BITUMINOUS AGGREGATE BASE
- (4) ITEM 304 - 6" AGGREGATE BASE
- (5) ITEM 407 - TACK COAT
- (5A) ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE
- (6) ITEM 204 - SUBGRADE COMPACTION
- (7) ITEM 605 - AGGREGATE DRAINS
- (8) ITEM 606 - GUARDRAIL TYPE 5
- (9) ITEM 659 - SEEDING AND MULCHING
- (10) ITEM 448 - 2" ASPHALT CONCRETE
- (11) ITEM 605 - PIPE UNDERDRAIN
- (12) ITEM 609 - CURB, TYPE 6
- (13) ITEM 203 - EMBANKMENT
- (14) ITEM 203 - EXCAVATION



WIDEN AND OVERLAY

SECTION APPLIES:
 STA. 9+50.00 TO STA. 70+00.00 = 6050.00 FT
 STA. 116+00.00 TO STA. 135+00.00 = 1900.00 FT
 SUSPEND WORK AT RAMP CREEK BRIDGE STA. 129+46.60 TO 133+54.55 = (107.95 FT)
 TOTAL = 7842.05 FT

* 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+00.00 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

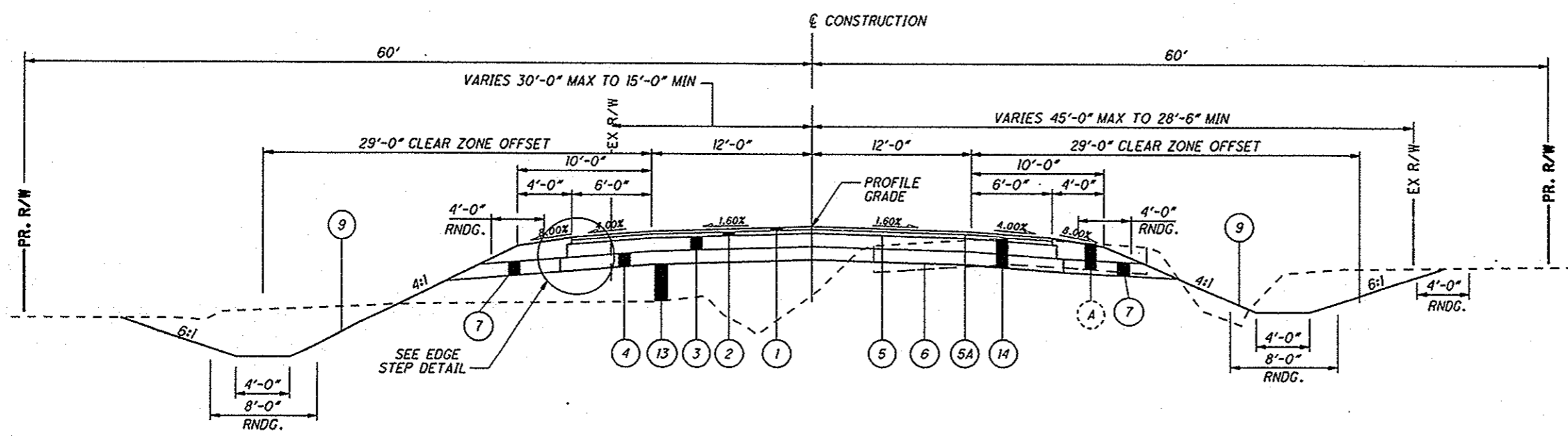
9' @ STA. 116+00.00 TO STA. 132+00.00
 9' @ STA. 132+00.00 TO 12' @ STA. 133+50.00
 6' @ STA. 133+50.00 TO STA. 135+00.00

+ VARIES
 14' @ STA. 12+05.00 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. 133+70.00 TO STA. 135+00.00

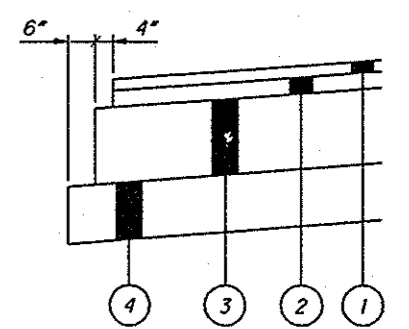
++ VARIES
 4' @ STA. 12+05.00 TO STA. 57+00.00
 4' @ STA. 57+00.00 TO 13' @ STA. 60+50.00
 13' @ STA. 60+50.00 TO STA. 70+00.00

9' @ STA. 116+00.00 TO BEGIN RAMP CREEK BRIDGE @ STA. 129+40.00
 8' @ END RAMP CREEK BRIDGE @ STA. 133+70.00 TO STA. 135+00.00



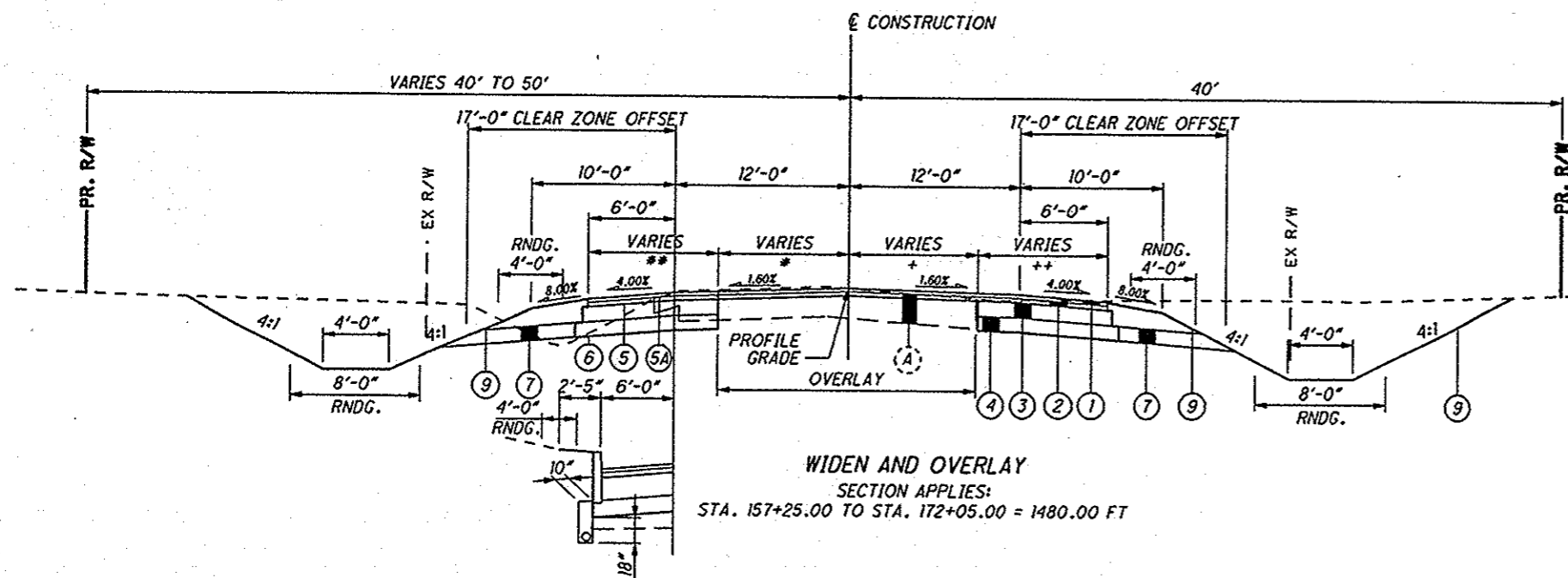
FULL DEPTH REPLACEMENT

SECTION APPLIES:
 STA. 70+00.00 TO STA. 116+00.00 = 4600.00 FT
 STA. 135+00.00 TO STA. 157+25.00 = 2225.00 FT
 TOTAL = 6825 FT



EDGE STEP DETAIL

IP_PWP:dms08268\78116GY001.DGN 02-SEP-2009 11:11AM jlove



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

ALTERNATE LEFT SIDE
SECTION APPLIES:
STA. 170+00.00 TO STA. 172+05.00 = 205.00 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

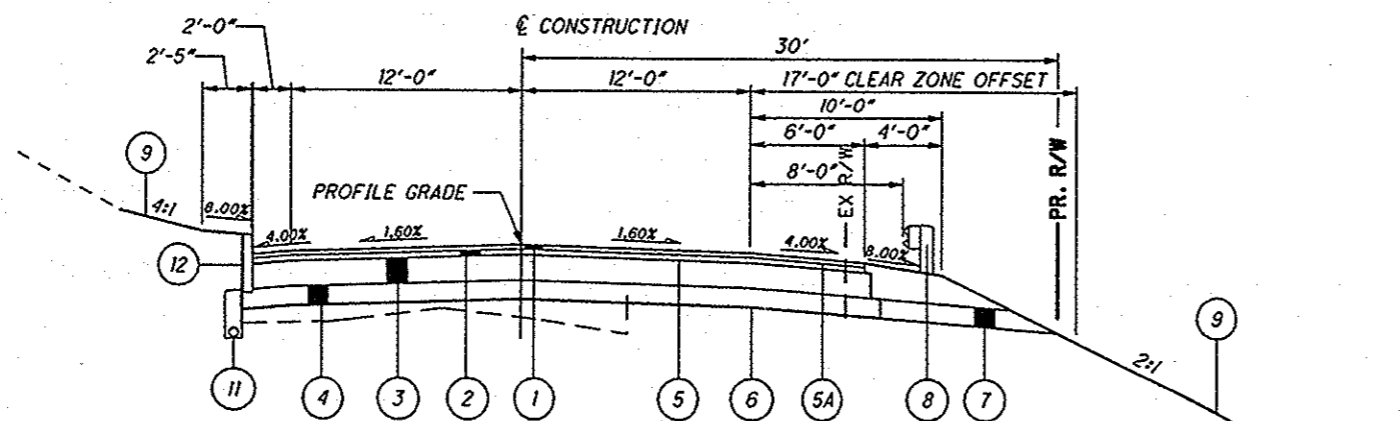
- 10' @ STA. 157+25.00 TO STA. 165+50.00
- 10' @ STA. 165+50.00 TO 16' @ STA. 167+50.00
- 16' @ STA. 167+50.00 TO STA. 168+50.00
- 16' @ STA. 168+50.00 TO 10' @ STA. 170+50.00
- 10' @ STA. 170+50.00 TO STA. 172+05.00

+ 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

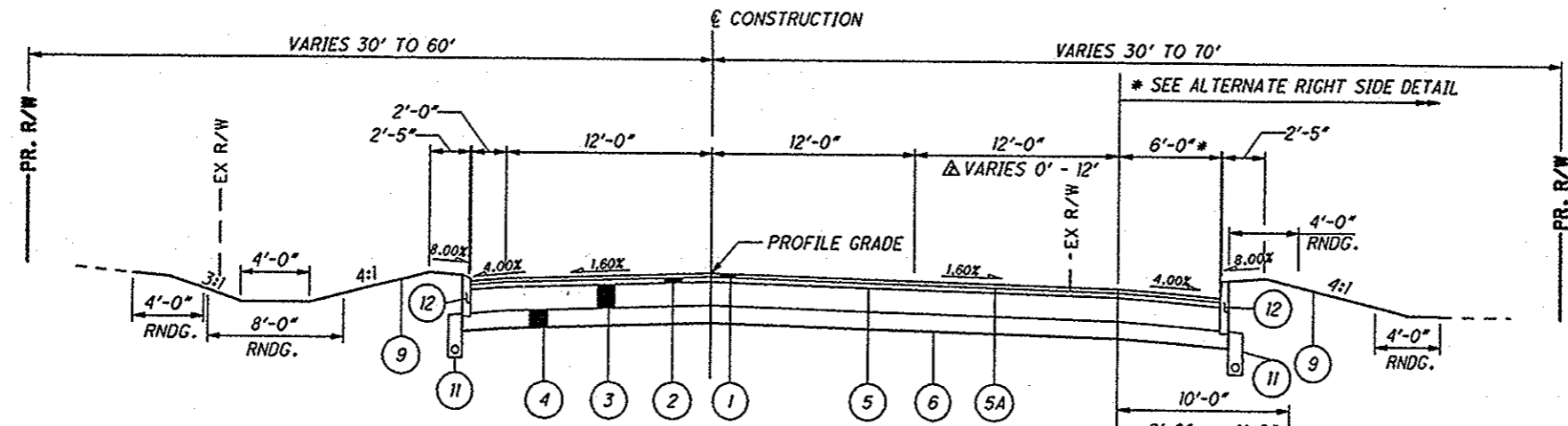
++ VARIES

- 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



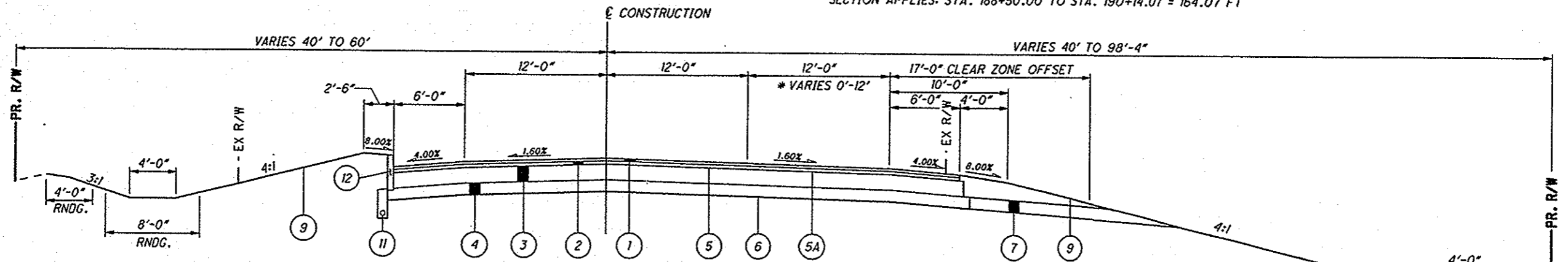
NORMAL SECTION - THORNWOOD DRIVE
SECTION APPLIES: STA. 190+14.07 TO STA. 201+00.00 = 1085.93 FT

FOR PAVEMENT LEGEND SEE SHEET 8

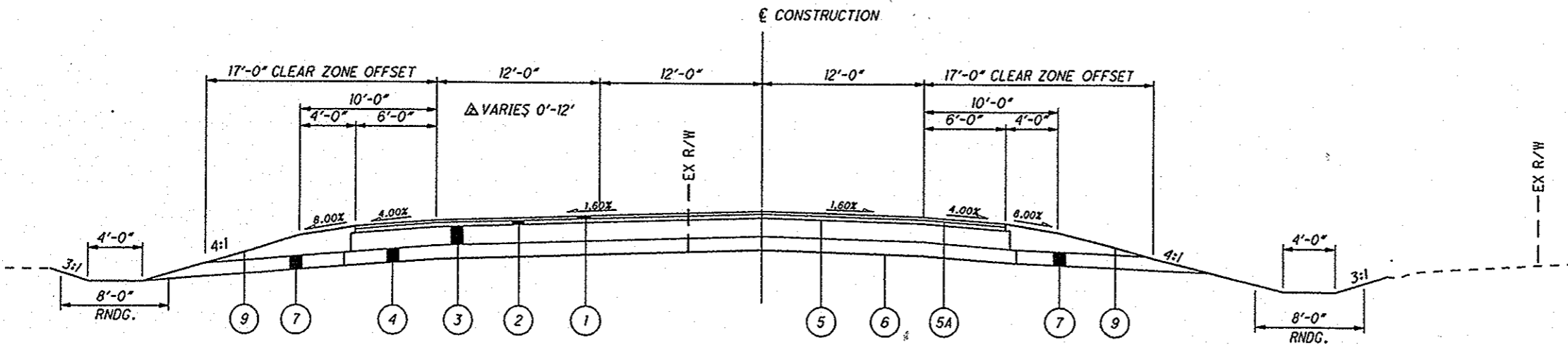


NORMAL SECTION - THORNWOOD DRIVE
 SECTION APPLIES: STA. 182+33.76 TO STA. 190+14.07 = 780.31 FT
 Δ VARIES 12'-0" - STA. 185+75.97 TO STA. 190+14.07
 * APPLIES FROM STA. 188+50.00 TO STA. 190+14.07 (NO CURB)

*** ALTERNATE RIGHT SIDE DETAIL**
 SECTION APPLIES: STA. 188+50.00 TO STA. 190+14.07 = 164.07 FT



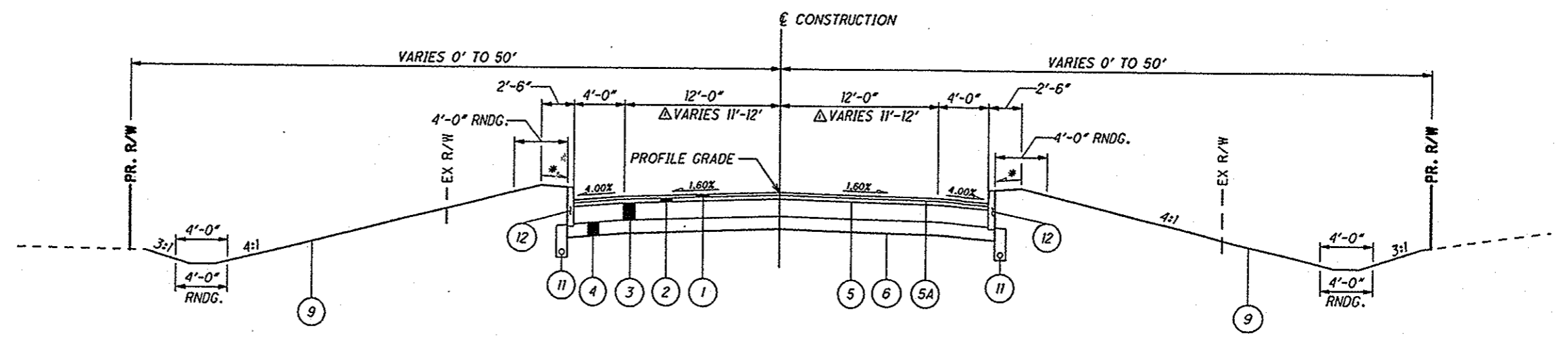
NORMAL SECTION - THORNWOOD DRIVE
 SECTION APPLIES: STA. 172+05.00 TO STA. 182+33.76 = 1028.76 FT
 STA. 181+37.18 TO STA. 182+33.76 INTERSECTION
 AREA - SEE DETAIL SHEET
 * VARIES 0'-12' FROM STA. 174+50.00 TO STA. 177+00.00



NORMAL SECTION - THORNWOOD DRIVE
 SECTION APPLIES: STA. 201+00.00 TO STA. 206+09.06 = 509.06 FT
 Δ 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

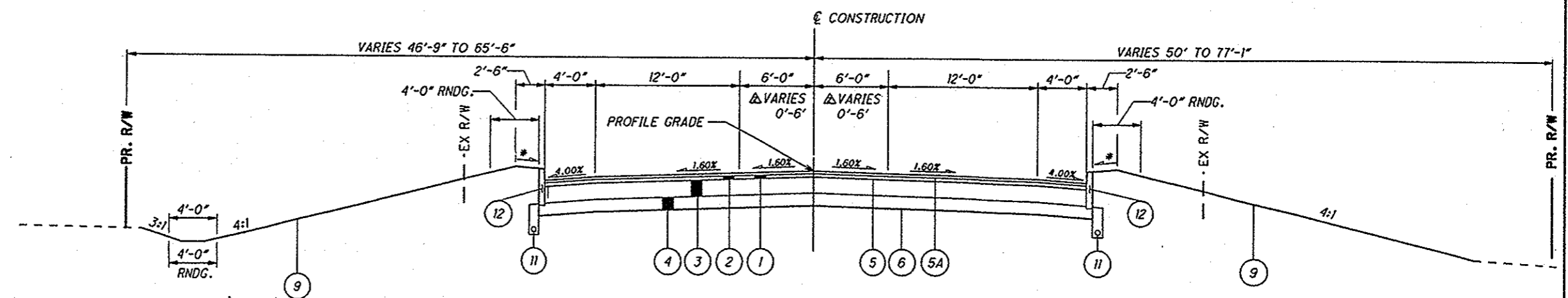
FOR PAVEMENT LEGEND SEE SHEET 8

IP_P:\WP-dms08268\78116G\003.DGN 02-SEP-2009 11:11AM p:\dms



NORMAL SECTION - JAMES/WEST MAIN ROAD

SECTION APPLIES:
 STA. 14+24.88 TO STA. 15+50.00 = 125.12 FT
 STA. 24+50.00 TO STA. 30+50.00 = 600.00 FT
 TOTAL LENGTH = 725.12 FT
 Δ VARIES 11'-12" - STA. 14+24.88 TO STA. 15+00.00 (TO TIE INTO EX)



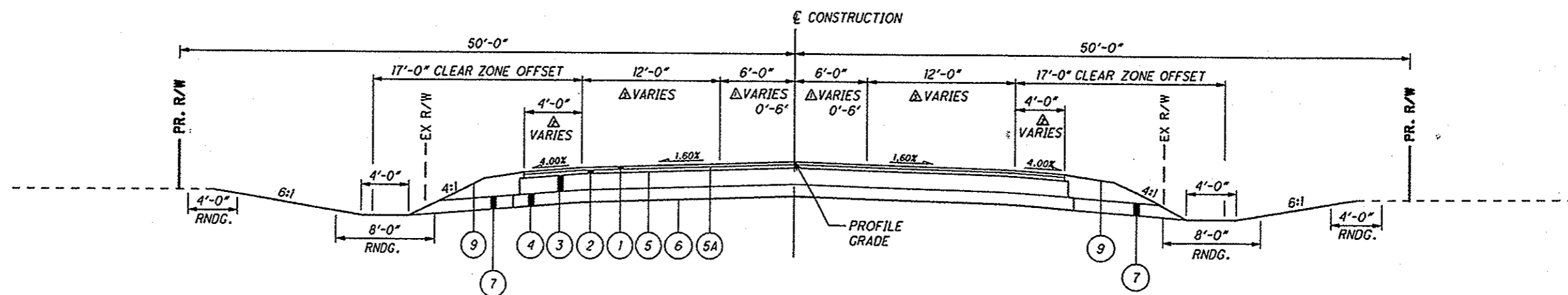
NORMAL SECTION - JAMES/WEST MAIN ROAD

SECTION APPLIES:
 STA. 15+50.00 TO STA. 19+07.55 = 357.55 FT
 STA. 19+07.55 TO STA. 21+03.50 - INTERSECTION AREA- SEE DETAIL SHEET
 STA. 21+03.50 TO STA. 24+50.00 = 346.50 FT
 TOTAL LENGTH = 704.05 FT
 Δ VARIES 0'-6" - STA. 15+50.00 TO STA. 17+00.00
 Δ VARIES 6'-0" - STA. 23+00.00 TO STA. 24+50.00

* = 8.00%

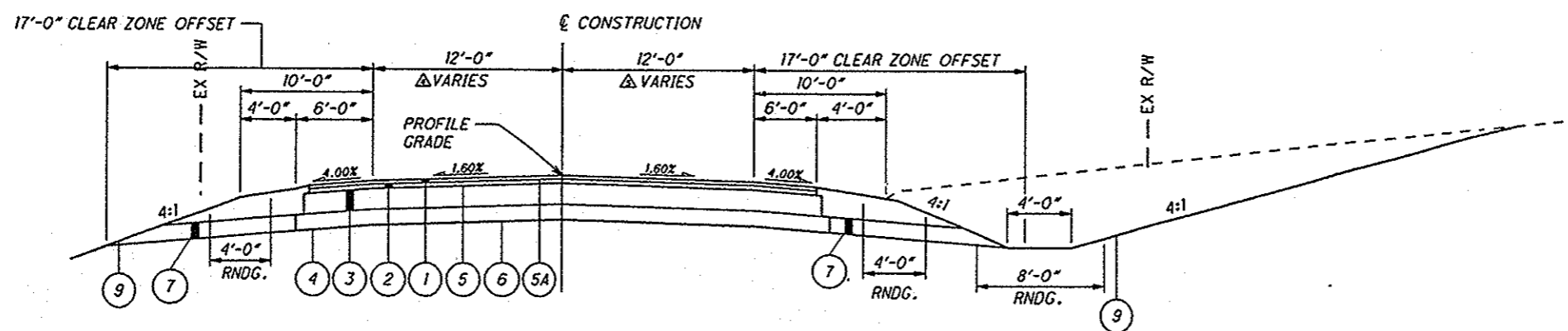
FOR PAVEMENT LEGEND SEE SHEET 8

IP_PWP:dms08268\78116GY004.DGN 02-SEP-2009 11:11AM jlove



NORMAL SECTION - LEES ROAD

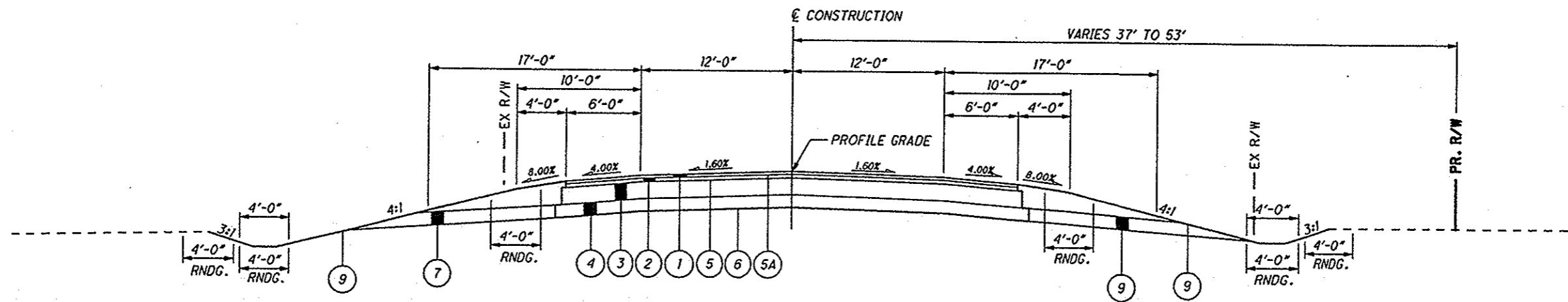
SECTION APPLIES:
 STA. 15+36.78 TO STA. 19+39.51 = 402.73 FT
 STA. 19+39.51 TO STA. 20+00.00 - INTERSECTION AREA - SEE DETAIL SHEET
 Δ VARIES 0'-6' - STA. 16+36.00 TO STA. 19+39.51
 VARIES 0'-6' - STA. 16+36.00 TO STA. 17+85.77
 Δ VARIES X-4' - STA. 15+36.78 TO STA. 16+36.00
 Δ VARIES X-12' - STA. 15+36.78 TO STA. 16+36.00



NORMAL SECTION - RELOCATED RIVER ROAD

SECTION APPLIES:
 STA. 20+00 TO STA. 33+00 = 1300 FT
 STA. 29+19.84 TO STA. 30+61.14 - INTERSECTION AREA - SEE DETAIL SHEET
 Δ VARIES X-16' - STA. 20+00 TO STA. 21+00 (MATCH EXISTING)
 VARIES 16' - STA. 21+00 TO STA. 24+28.93 (CURVE WIDENING)
 VARIES 16'-12' - STA. 24+28.93 TO STA. 25+29.01
 Δ VARIES X-12' - STA. 20+00 TO STA. 21+00 (MATCH EXISTING)
 VARIES 12'-16' - STA. 25+47.94 TO STA. 26+48.02
 VARIES 16'-X - STA. 26+48.02 TO STA. 29+19.84 (CURVE WIDENING)

FOR PAVEMENT LEGEND SEE SHEET 8



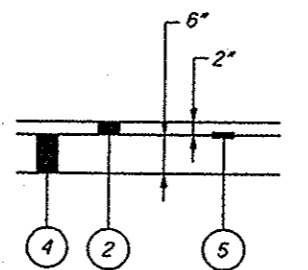
NORMAL SECTION - RIVER CONNECTOR ROAD

SECTION APPLIES:

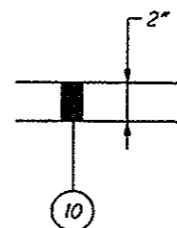
STA. 20+00 TO STA. 20+40.96 - INTERSECTION AREA - SEE DETAIL SHEET 262

STA. 20+40.96 TO STA. 23+87.87 = 346.91 FT

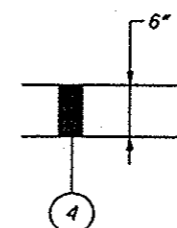
STA. 23+87.87 TO STA. 24+88.49 - CUL-D-SAC - SEE DETAIL SHEET 285 .



ASPHALT DRIVE DETAIL



CONCRETE DRIVE DETAIL



GRAVEL DRIVE DETAIL

FOR PAVEMENT LEGEND SEE SHEET 8

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:

GAS:

COLUMBIA GAS TRANSMISSION CORP.
ATTN: JUSTIN GRAHAM
2429 LINDEN AVENUE
ZANESVILLE, OH 43701
740-450-1205
JGRAHM@NISOURCE.COM

CATV:

TIME WARNER CABLE
ATTN: TERRY ALLEN
1266 DUBLIN ROAD
COLUMBUS, OH 43215
614-255-6349-CELL
TERRY.ALLEN@TECOLUMBUS.COM

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

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

TEXAS EASTERN TRANSMISSION CORP.
1895 BIG INCH ROAD
SOMERSET, OH 43783
740-743-1309-PHONE
740-743-1025-FAX

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

TEPPO

TRACI McCLERNON
3691 HIGHWAY 14 NORTH
P.O. BOX 312
WATKINS GLEN, NY 14891
607-535-2783 EXT. 214

VILLAGE OF HEBRON
HEBRON, OH 43025
740-928-2261-OFFICE
740-928-5104-FAX

CITY OF HEATH
1287 HEBRON ROAD
HEATH, OH 43056
740-522-1420-OFFICE

ELECTRIC:

AMERICAN ELECTRIC POWER
ATTN: PATRICO WEYERS / ROBERT IVINSKAS
850 TECK CENTER DRIVE
GAHANNA, OH 43230
614-883-7832-PHONE
614-883-6868-FAX

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

THE ENERGY COOPERATIVE
ATTN: GREG WILSON
1500 GRANVILLE ROAD
P.O. BOX 4970
NEWARK, OH 43058
740-348-1254-CELL

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.

ENVIRONMENTAL

ENVIRONMENTAL COMMITMENT NOTES

TO BE DETERMINED

IP_PWP:dms08268\78116GN001.dgn 02-SEP-2009 7:01AM jlove

CALCULATED
CEL
CREATED

GENERAL NOTES

LIC-THORNWOOD

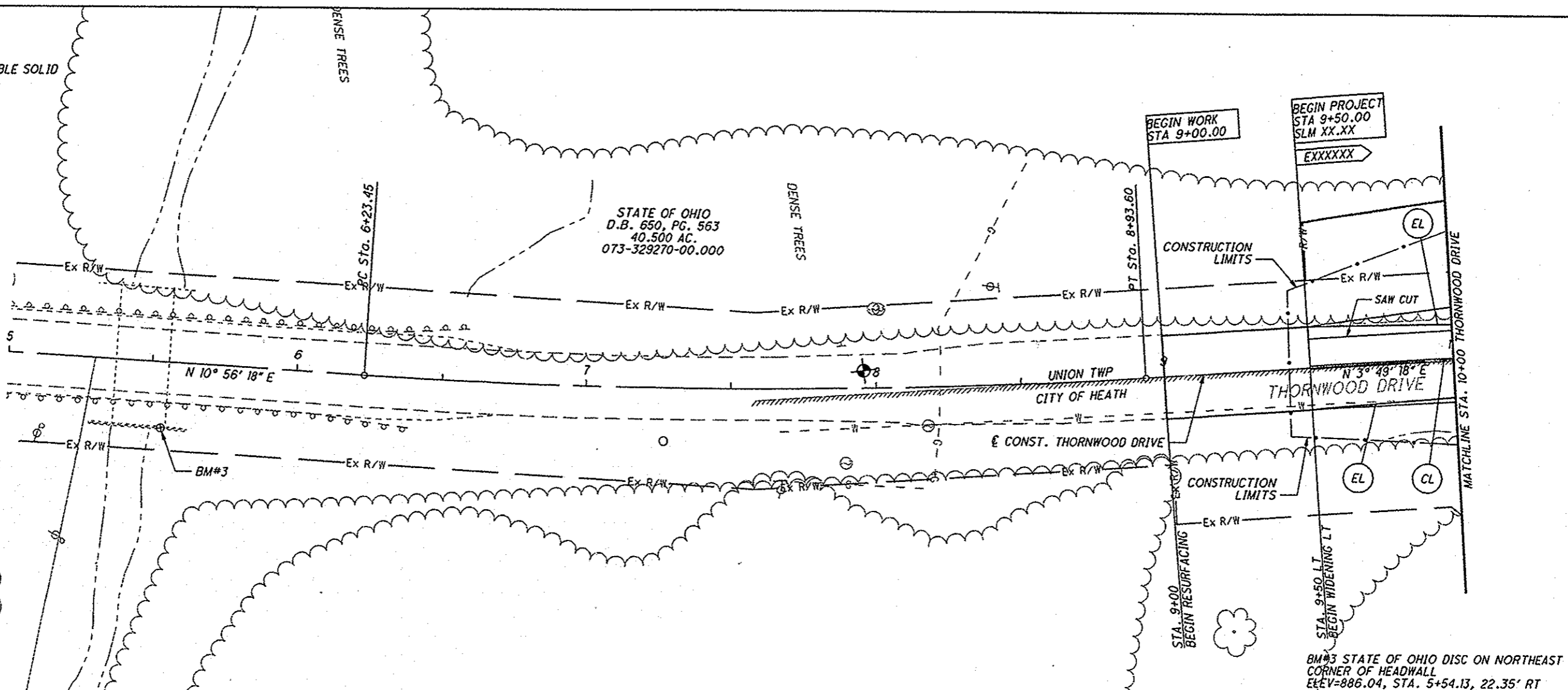
14
285

LEGEND

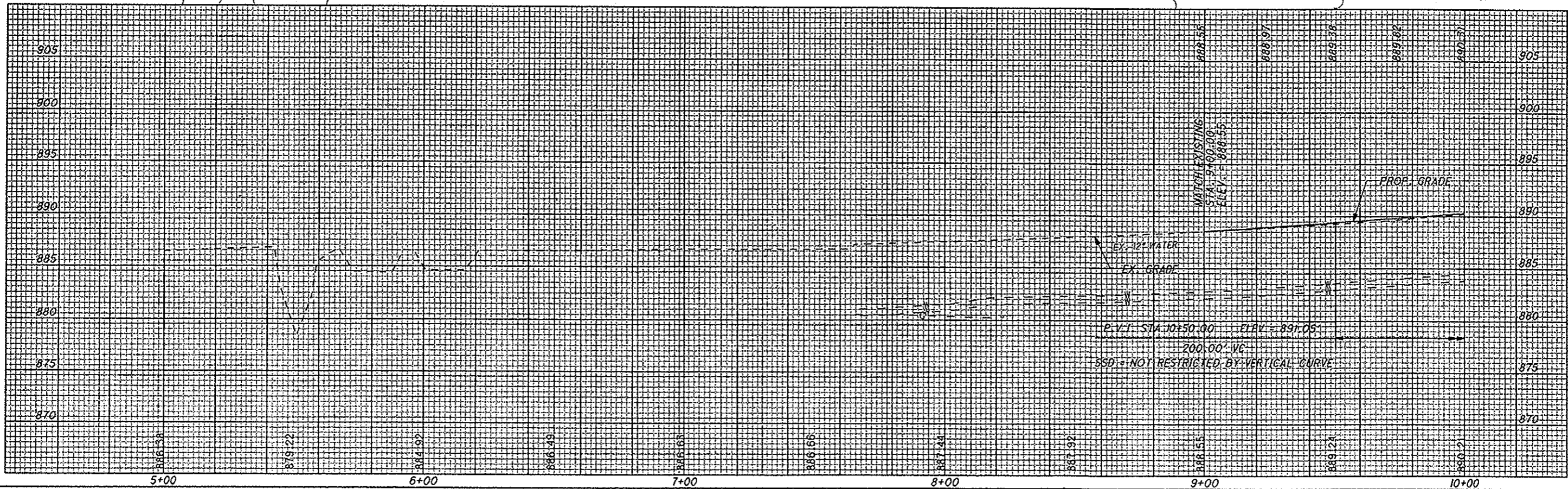
- (CL) CENTER LINE, DOUBLE SOLID
- (EL) EDGE LINE, WHITE

FOR CROSS SECTIONS
SEE SHEET 72

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



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







HORIZONTAL SCALE IN FEET

| | | | |
|------------|-----|---------|-----|
| CALCULATED | MMB | CHECKED | JEL |
|------------|-----|---------|-----|

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

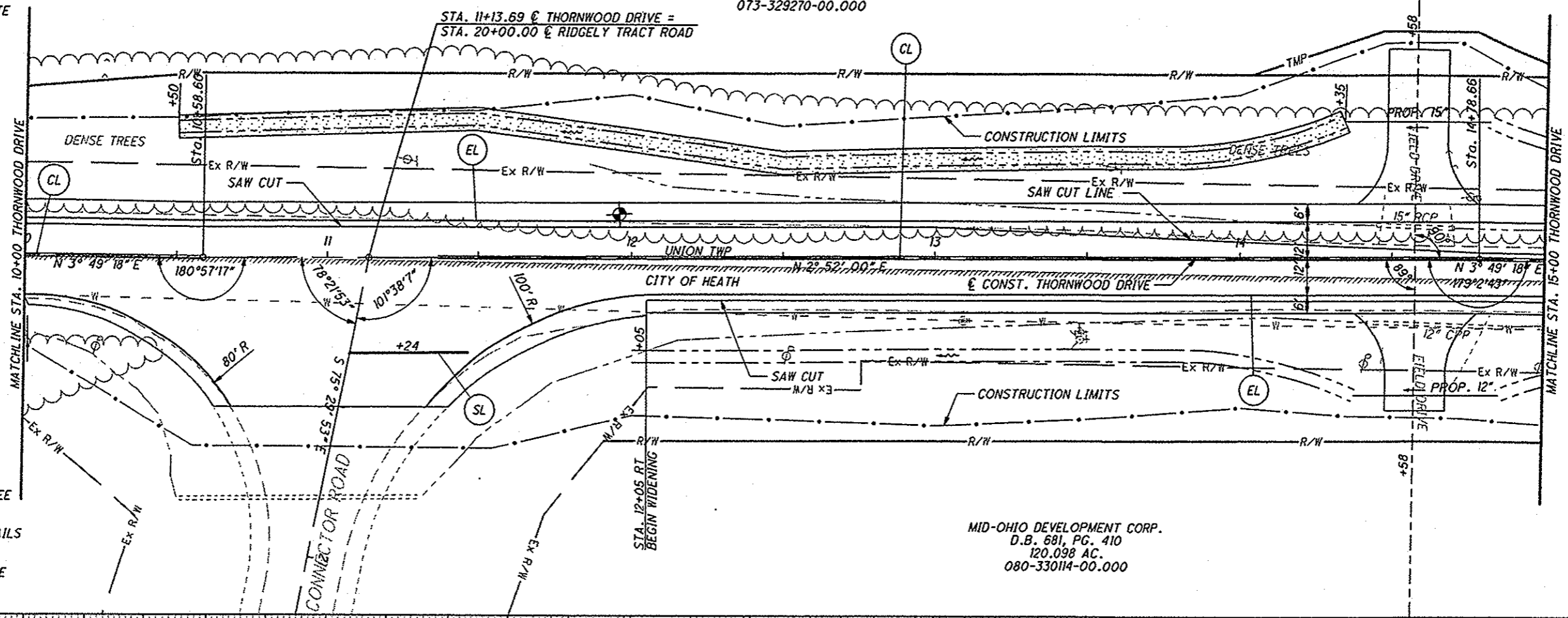
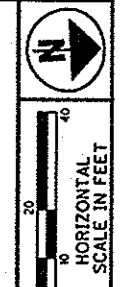
LIC-THORNWOOD

| |
|-----|
| 15 |
| 285 |

LEGEND

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

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



FOR CROSS SECTIONS SEE SHEETS 72 TO 76
FOR INTERSECTION DETAILS SEE SHEET 258
FOR DRIVE PROFILES SEE SHEETS 75 TO 76

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






1P_PWP.dms08268\781160P003.dgn 02-SEP-2009 7:02AM jrove


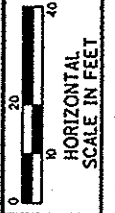
PLAN AND PROFILE - THORNWOOD
STA. 10+00 TO STA. 15+00

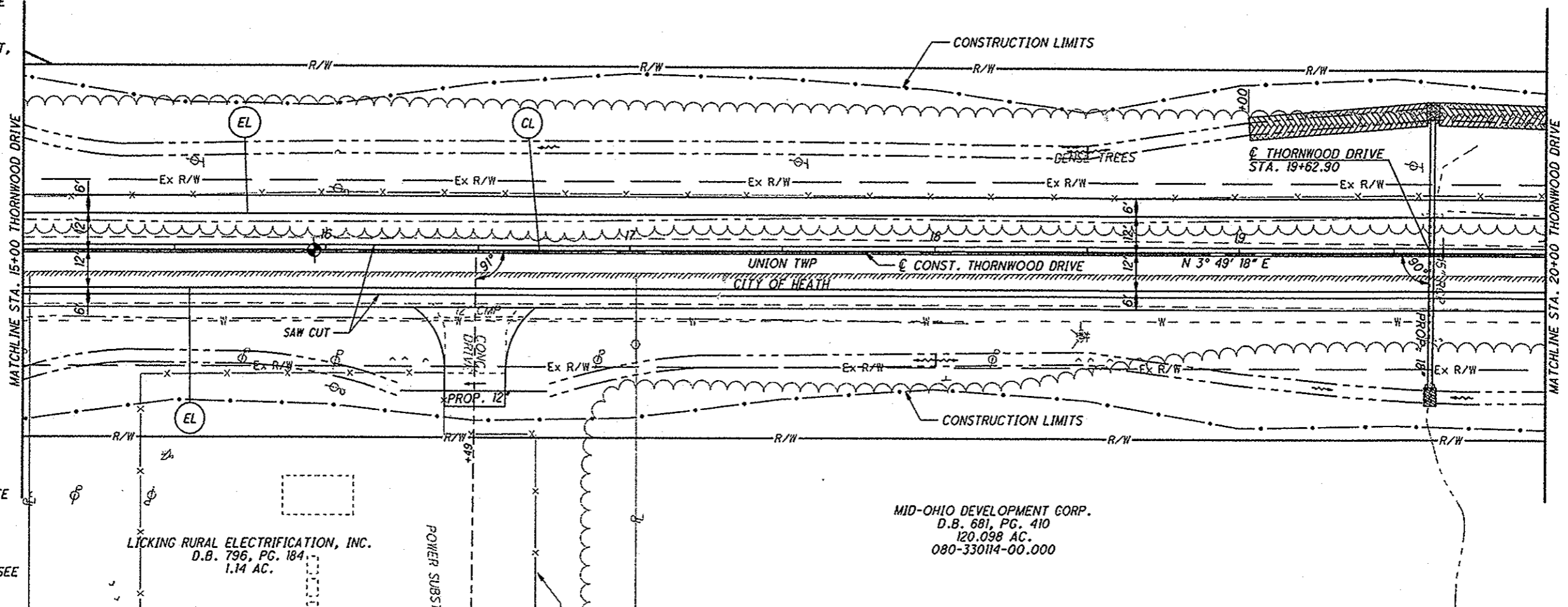
LIC-THORNWOOD

LEGEND

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

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



 HORIZONTAL SCALE IN FEET
 CALCULATED: MMB
 CHECKED: JEL

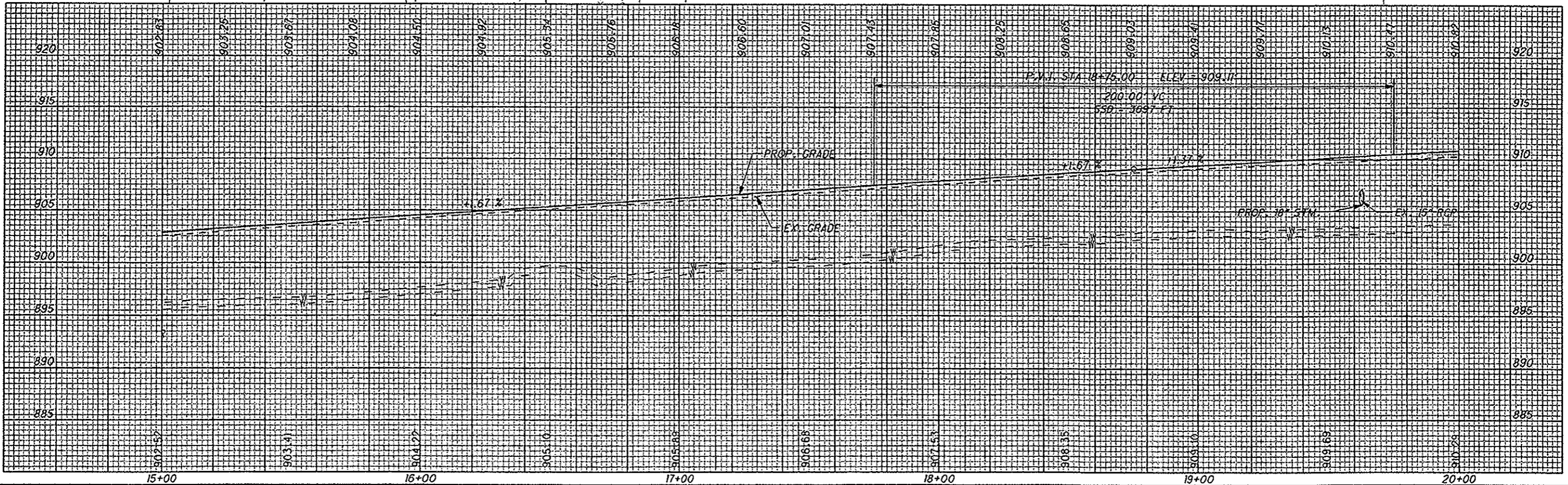


FOR CROSS SECTIONS SEE SHEETS 76 TO 80

FOR DRIVE DETAILS SEE SHEET 77

FOR DRAINAGE DETAILS SEE SHEET 271

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



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

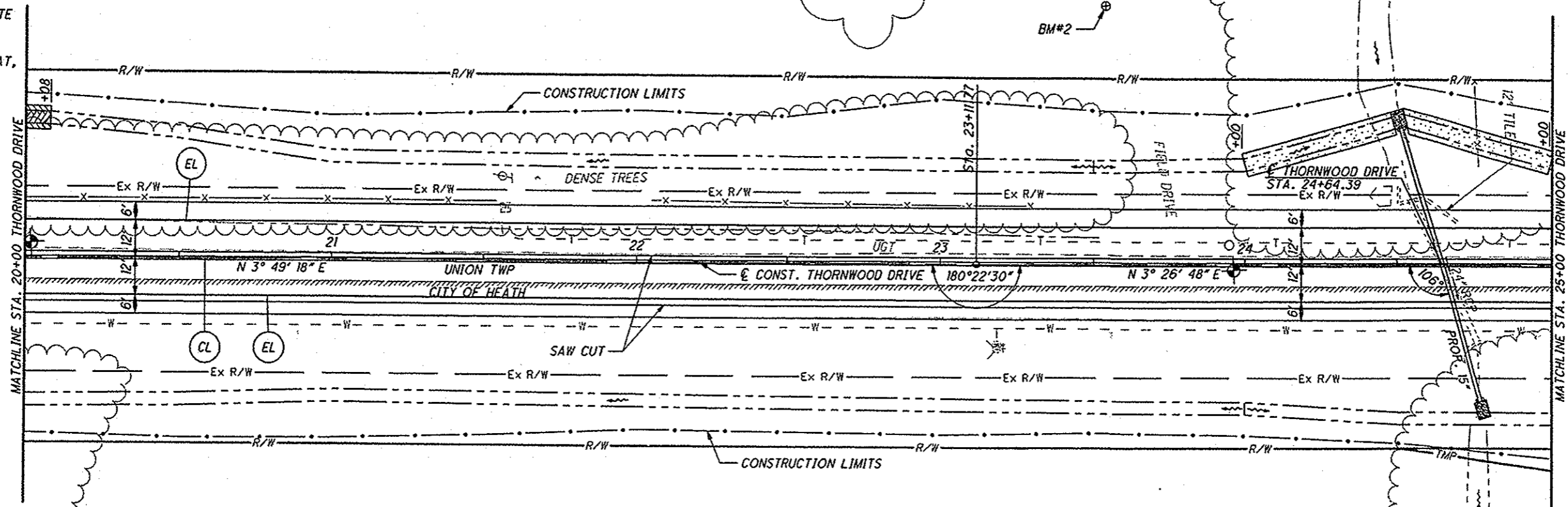
LIC-THORNWOOD

LEGEND

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

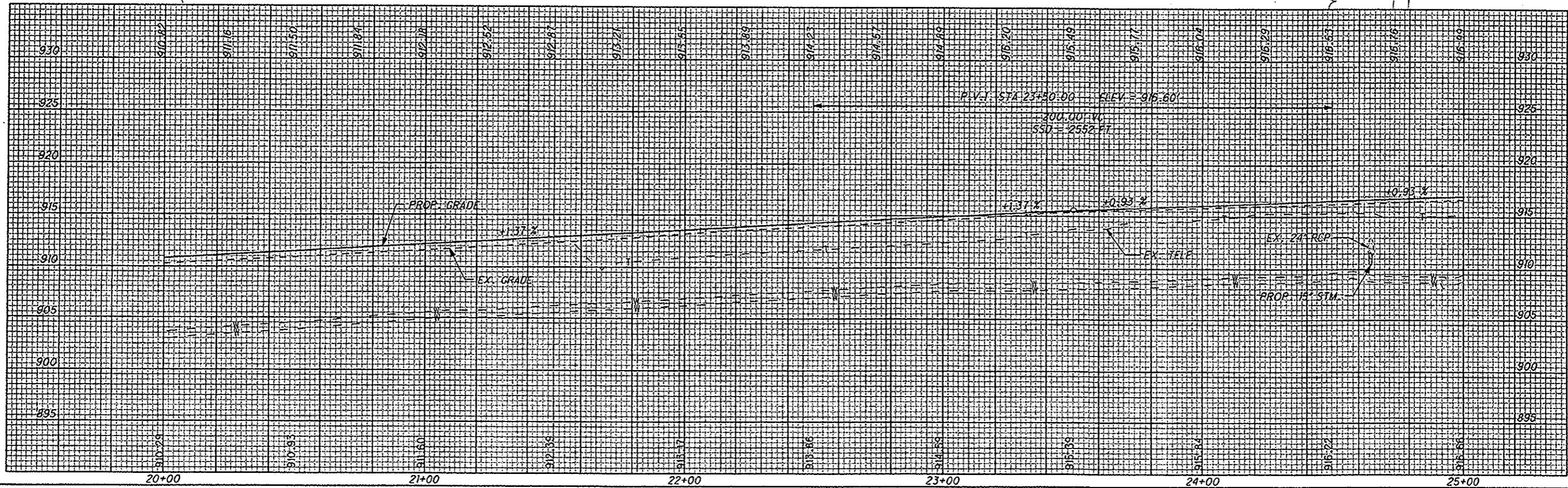
STATE OF OHIO
D.B. 650, PG. 563
40.500 AC.
073-329270-00.000

BM#2 IRON PIN SET WITH YELLOW 'TRAV' CAP
ELEV=919.29, STA. 23+53.79, 82.89' LT



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

FOR CROSS SECTIONS SEE SHEETS 80 TO 83
FOR DRAINAGE DETAILS SEE SHEET 272



0 20 40
HORIZONTAL SCALE IN FEET

CALCULATED MMB CHECKED JEL




PLAN AND PROFILE - THORNWOOD

STA. 20+00 TO STA. 25+00

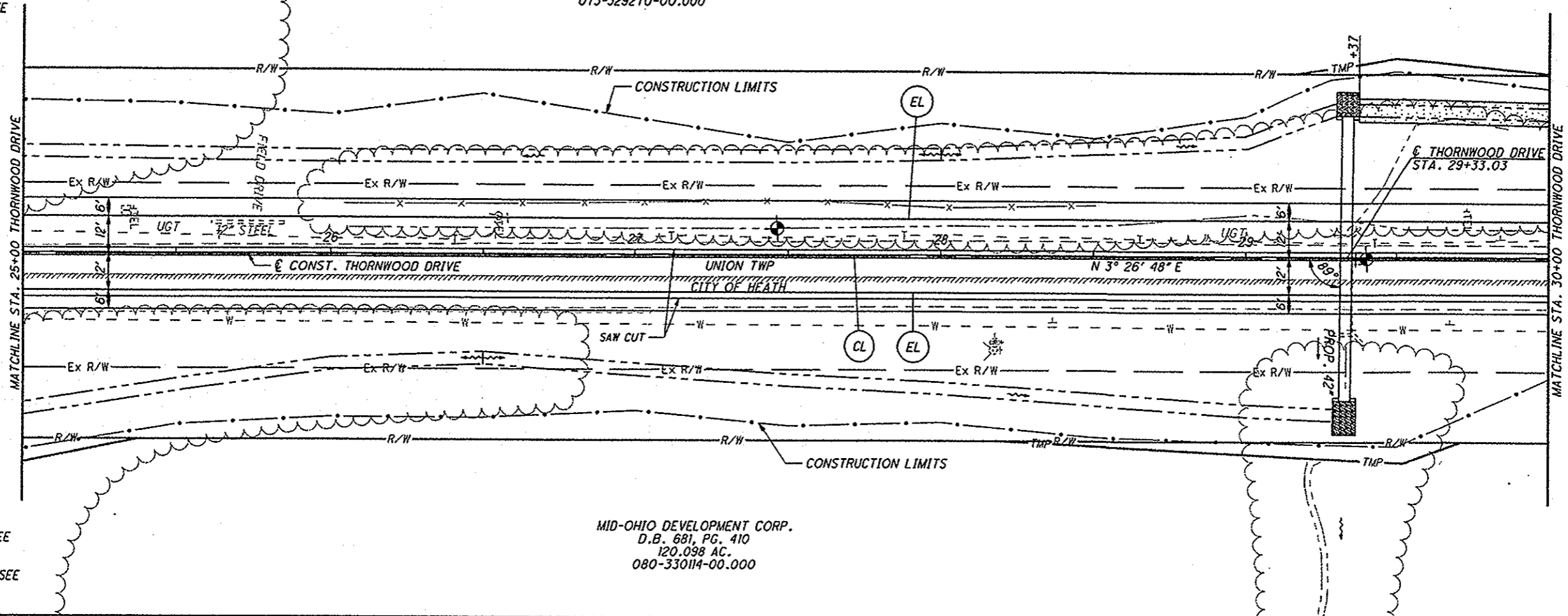
LIC-THORNWOOD

18
285

LEGEND

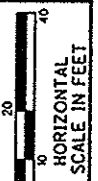
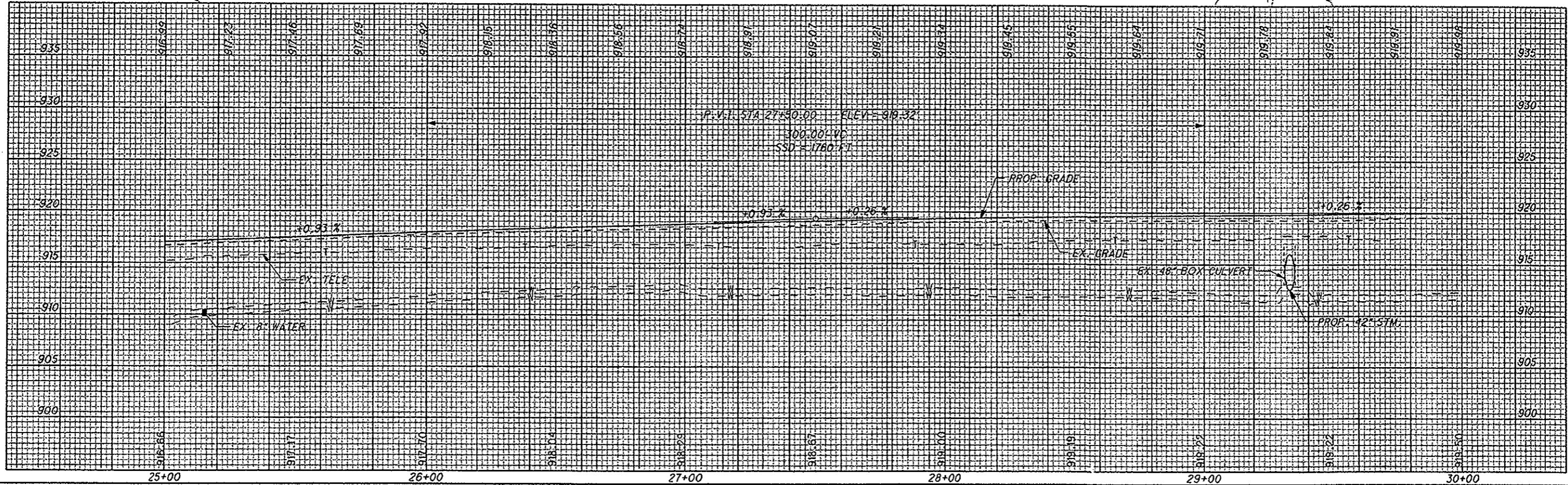
-  CL CENTER LINE, DOUBLE SOLID
-  EL EDGE LINE, WHITE
-  7.5' WIDE DITCH EROSION PROTECTION

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



FOR CROSS SECTIONS SEE SHEETS 83 TO 86
FOR DRAINAGE DETAILS SEE SHEET 273

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



CALCULATED
MIMB
CHECKED
JEL

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

LIC-THORNWOOD

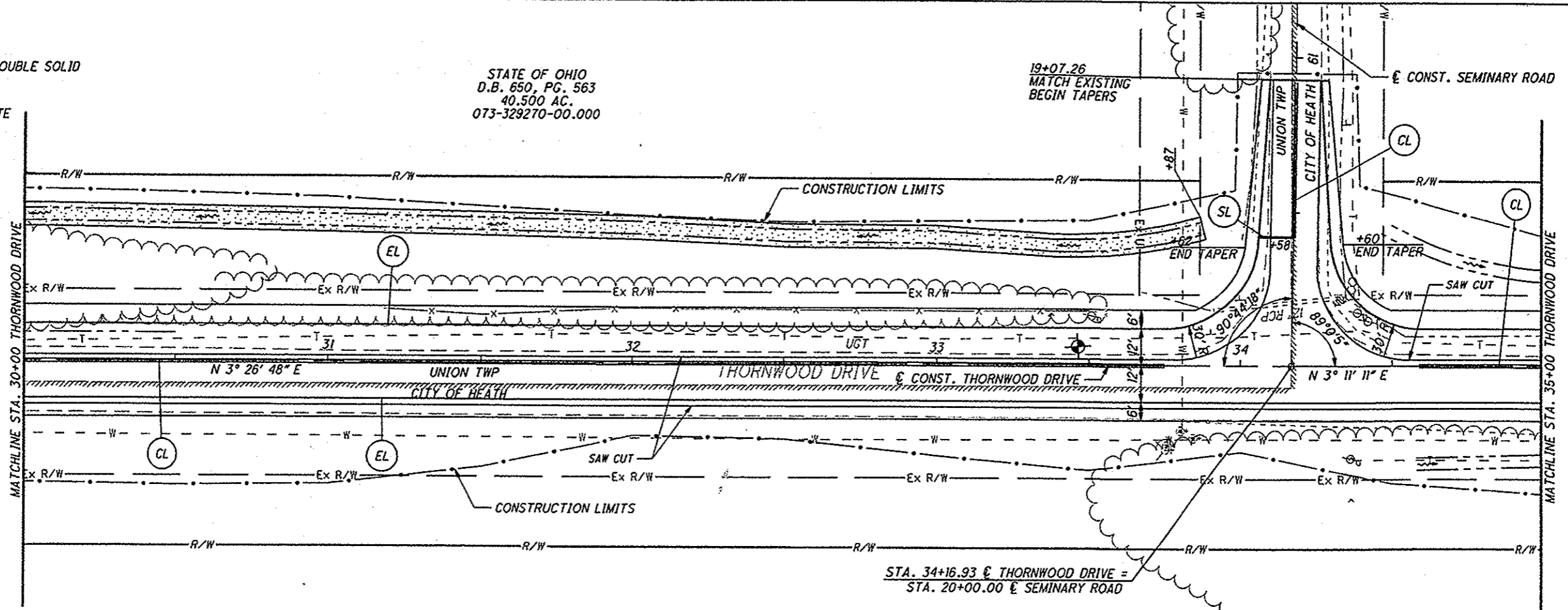
IP_PWP.dms08268\78116GCP006.dgn 02-SEP-2009 7:02AM jlove

LEGEND

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

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

19+07.26
MATCH EXISTING
BEGIN TAPERS

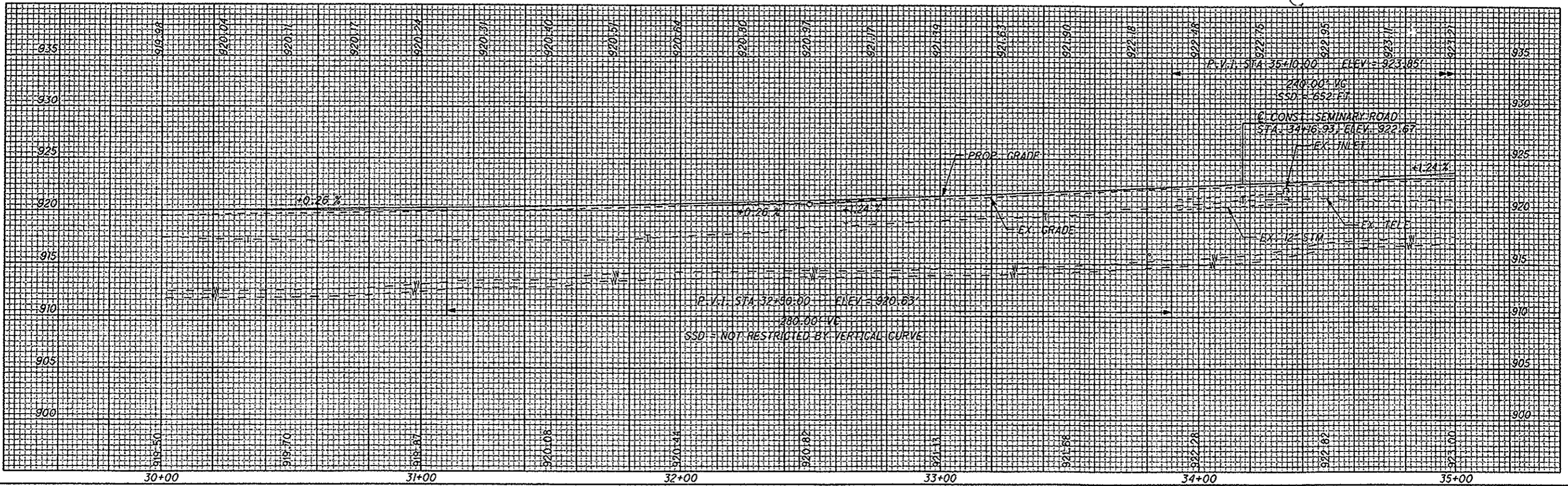


STA. 34+16.93 @ THORNWOOD DRIVE =
STA. 20+00.00 @ SEMINARY ROAD

FOR CROSS SECTIONS SEE
SHEETS 86 TO 89

FOR INTERSECTION DETAILS
SEE SHEET 258

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. 30+00 TO STA. 35+00

LIC-THORNWOOD

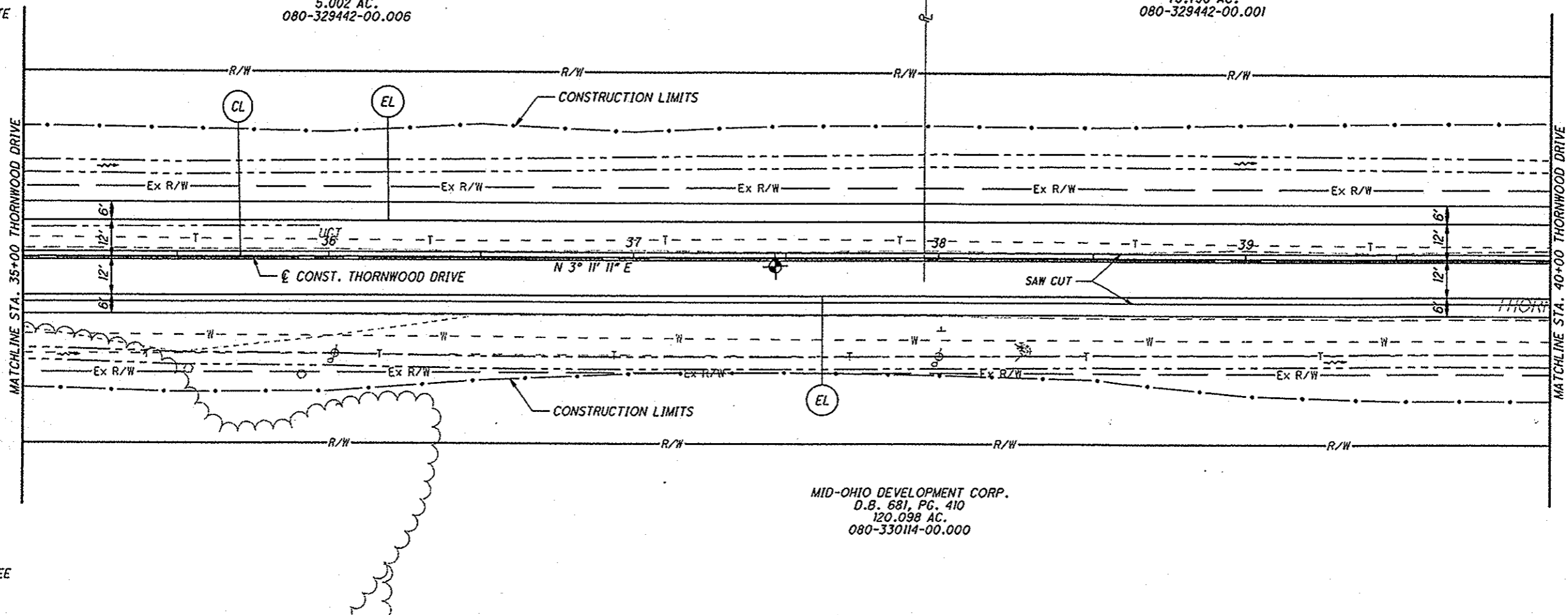
IP_PWP.dms08268\78116GF007.dgn 02-SEP-2009 7:02AM jrove

LEGEND

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

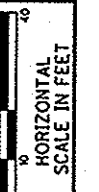
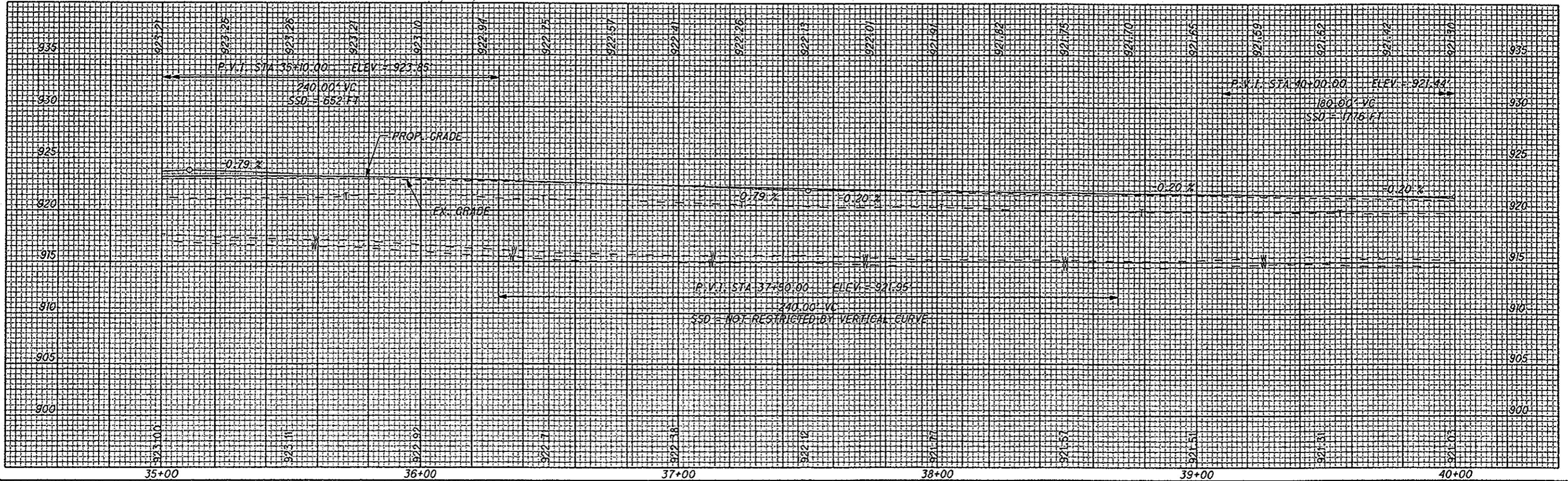
DAVID H. SELLERS
200101160001520
5.002 AC.
080-329442-00.006

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 89 TO 93






CALCULATED
MMB
CHECKED
JEL

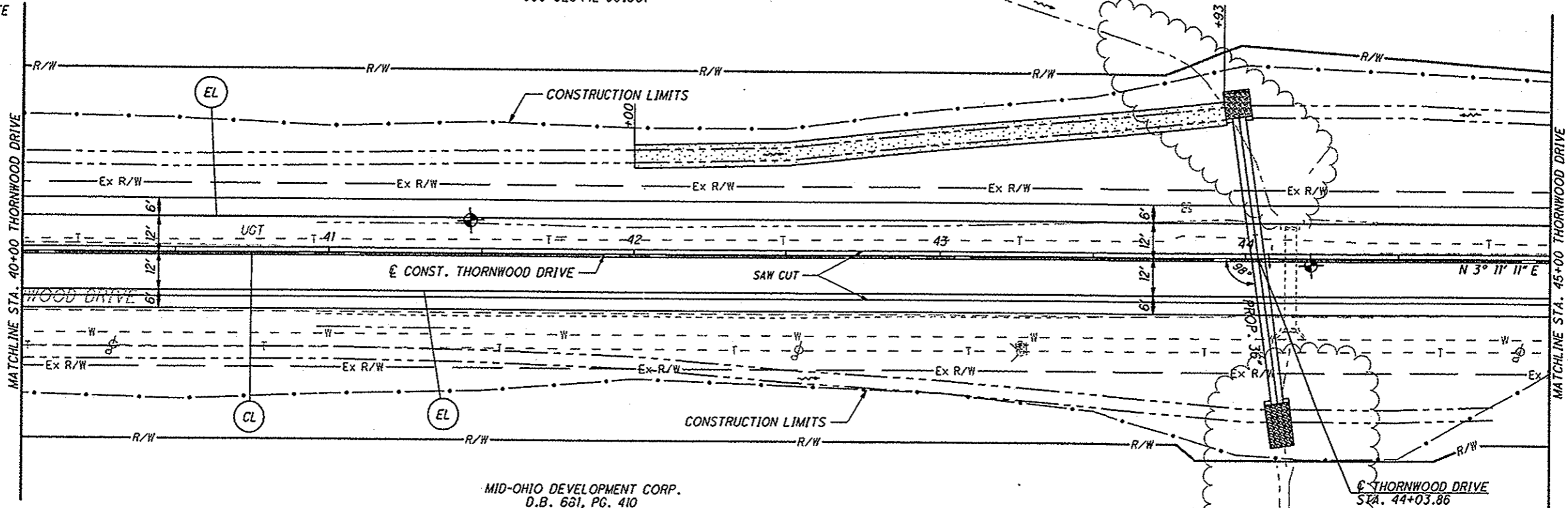
**PLAN AND PROFILE - THORNWOOD
STA. 35+00 TO STA. 40+00**

LIC-THORNWOOD

LEGEND

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

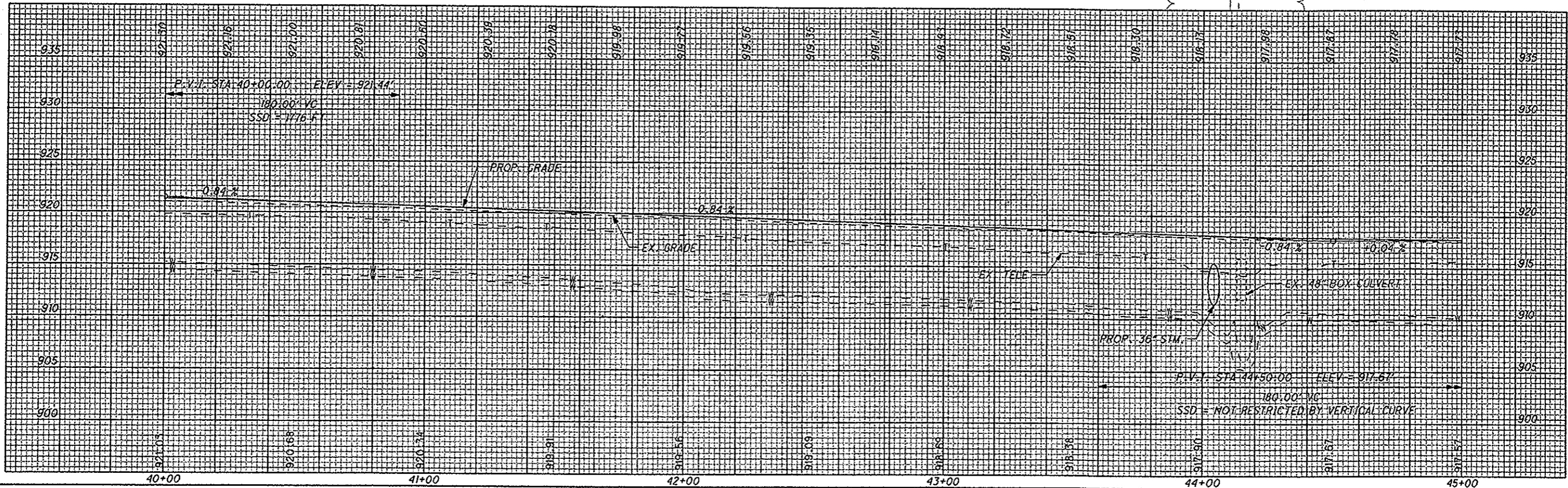
DAVID H. SELLERS
O.R. 874, PG. 385
79.790 AC.
080-329442-00.001



MID-OHIO DEVELOPMENT CORP.
D.B. 631, PG. 410
120.098 AC.
080-330114-00.000

FOR CROSS SECTIONS SEE SHEETS 93 TO 96

FOR DRAINAGE DETAILS SEE SHEET 274



CALCULATED
MMB
CHECKED
JEL

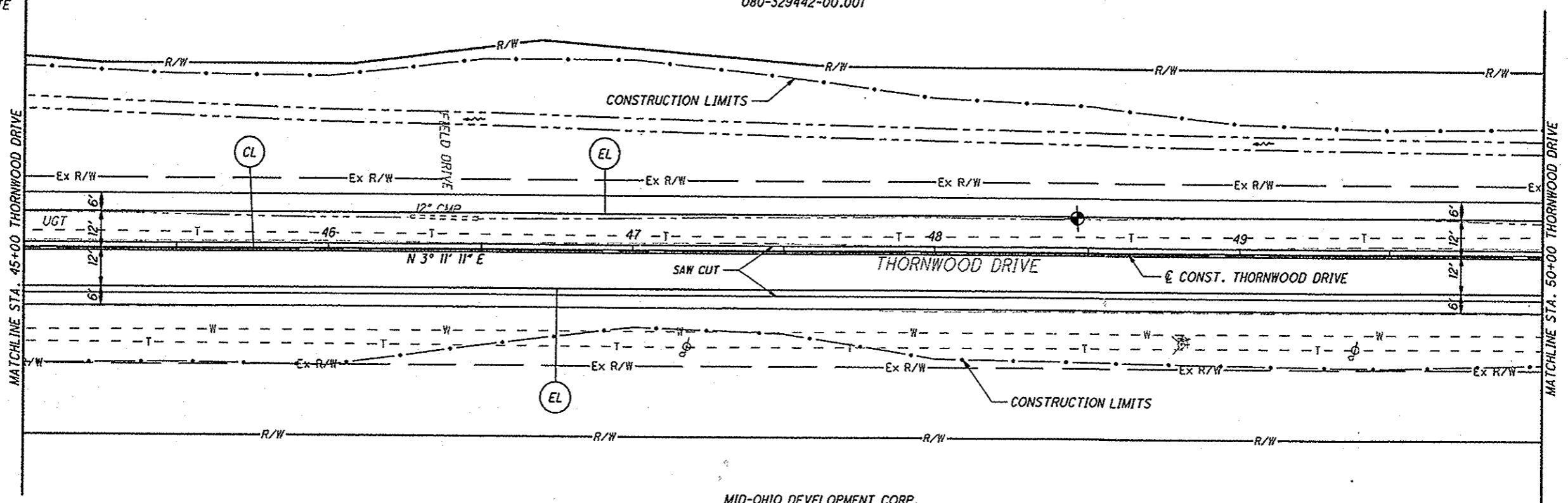
PLAN AND PROFILE - THORNWOOD
STA. 40+00 TO STA. 45+00

LIC-THORNWOOD

LEGEND

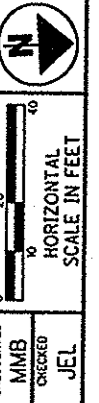
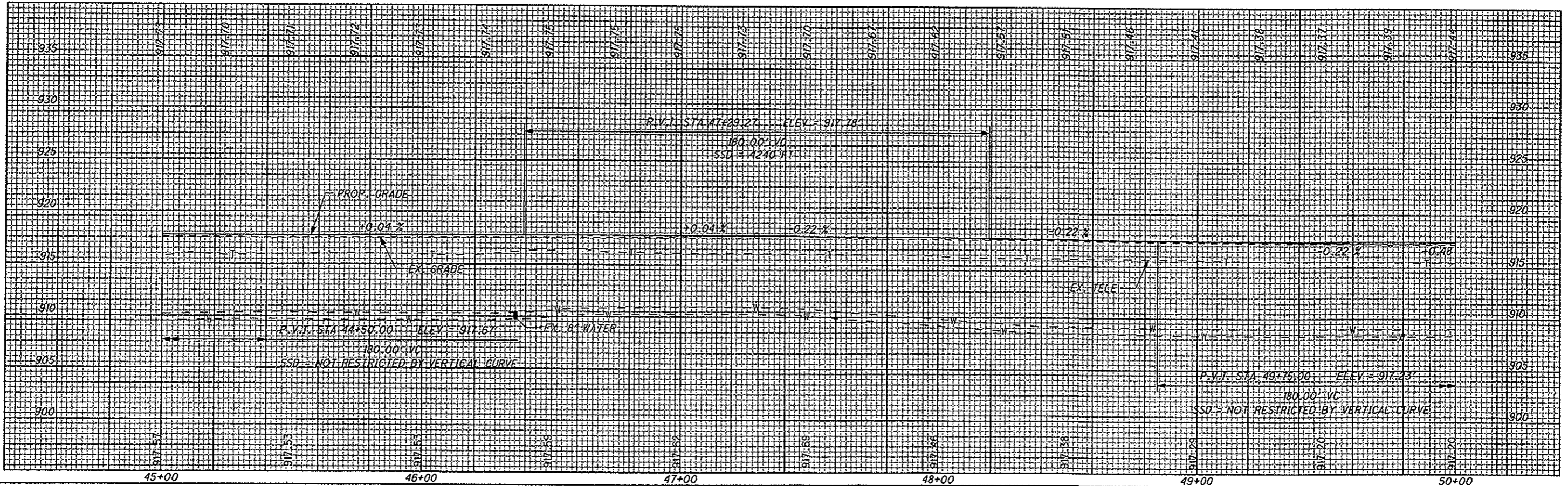
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE

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 96 TO 99



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

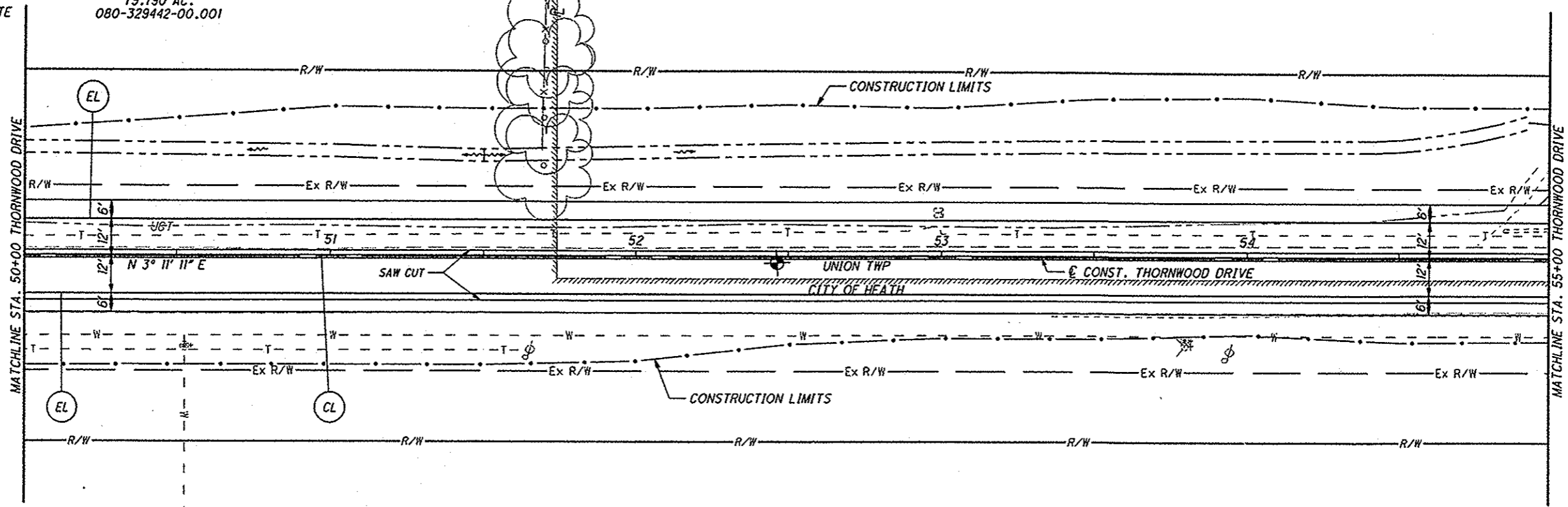
LIC-THORNWOOD

LEGEND

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

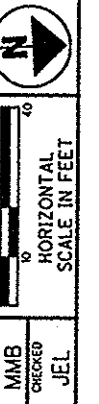
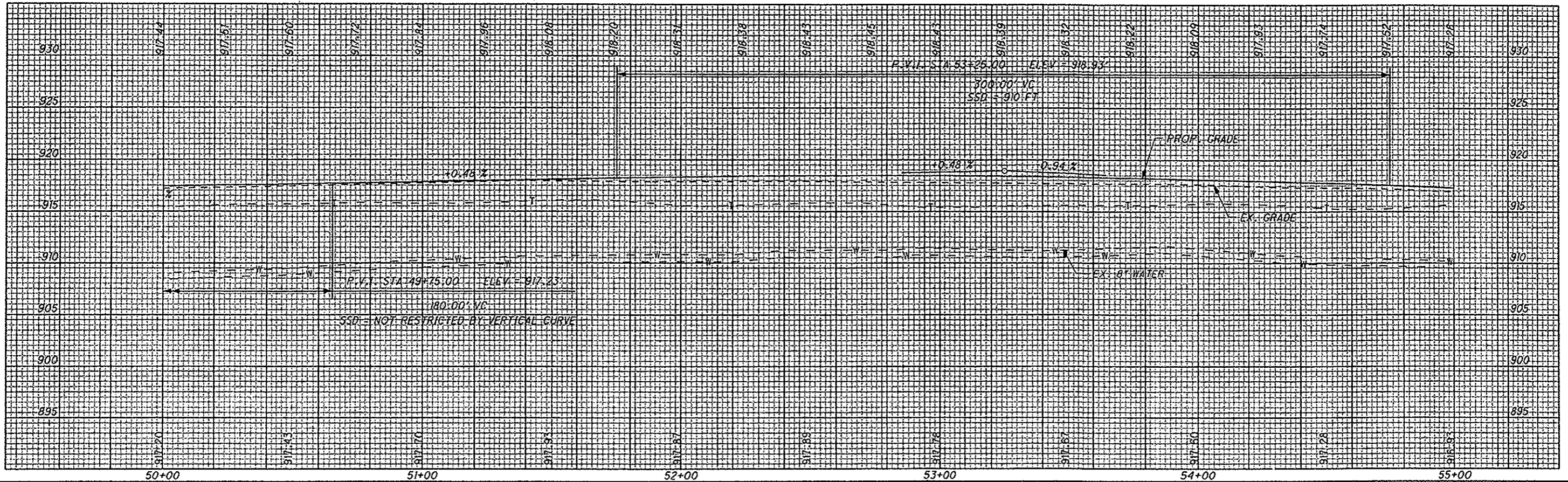
DAVID H. SELLERS
O.R. 874, PG. 385
79.790 AC.
080-329442-00.001

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



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

FOR CROSS SECTIONS SEE
SHEETS 99 TO 103



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

LIC-THORNWOOD

IP_PWP.dms08268\78116GP01.dgn 02-SEP-2009 7:03AM jlove

LEGEND

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

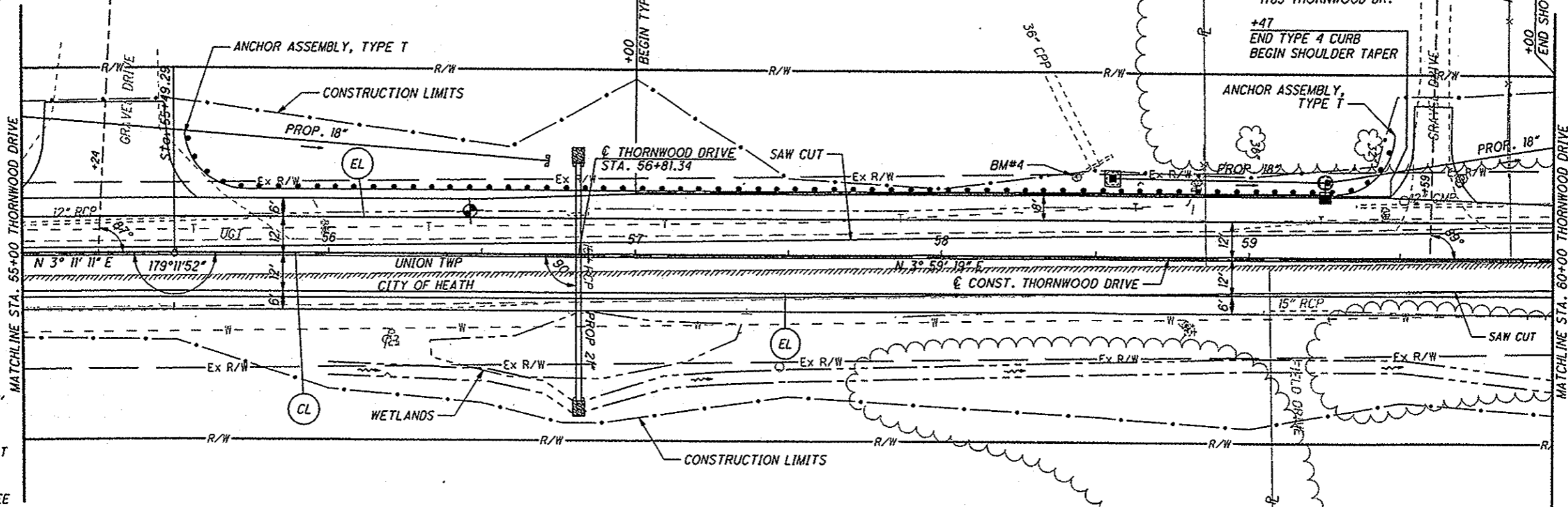
ROBERTSON CONSTRUCTION SERVICES, INC.
200610240031150
30.842 AC.
097-329940-00.001

EX. RETENTION POND

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

+47
END TYPE 4 CURB
BEGIN SHOULDER TAPER

ANCHOR ASSEMBLY, TYPE T



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

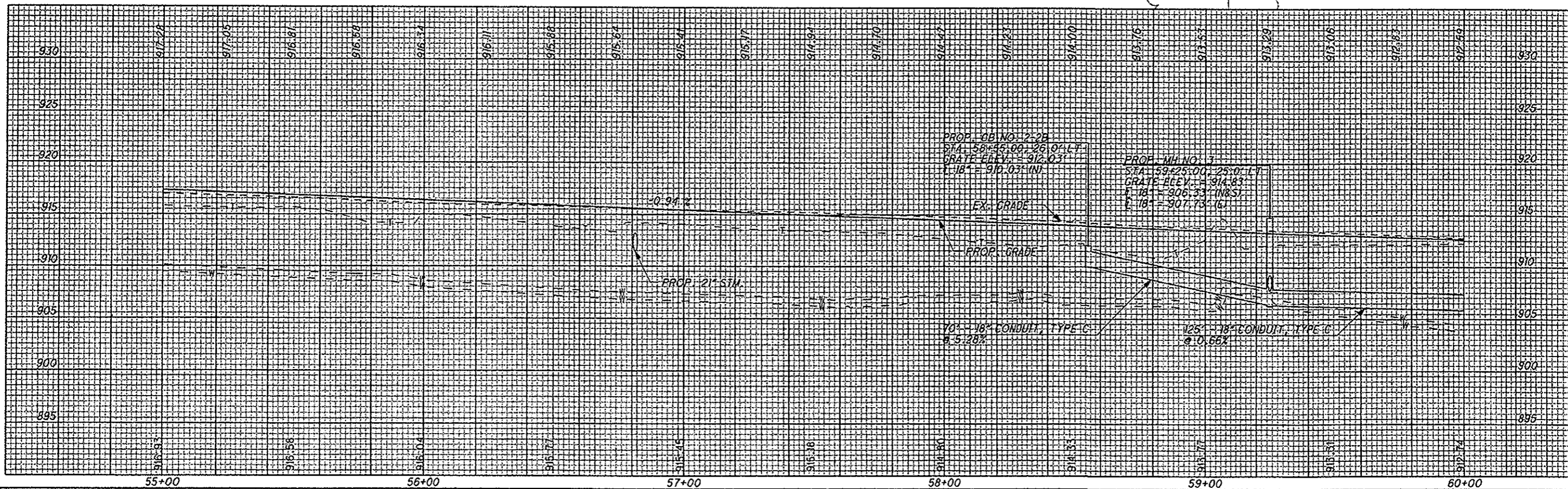
FOR CROSS SECTIONS SEE
SHEETS 103 TO 106

FOR DRIVE DETAILS SEE
SHEETS 103 AND 106

FOR DRAINAGE DETAILS SEE
SHEET 275






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



PLAN AND PROFILE - THORNWOOD
LIC-THORNWOOD
STA. 55+00 TO STA. 60+00
 CALCULATED MIMB CHECKED JEL
 HORIZONTAL SCALE IN FEET
 25
 285

LEGEND

-  CENTER LINE, DOUBLE SOLID
-  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

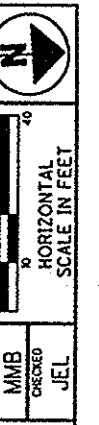
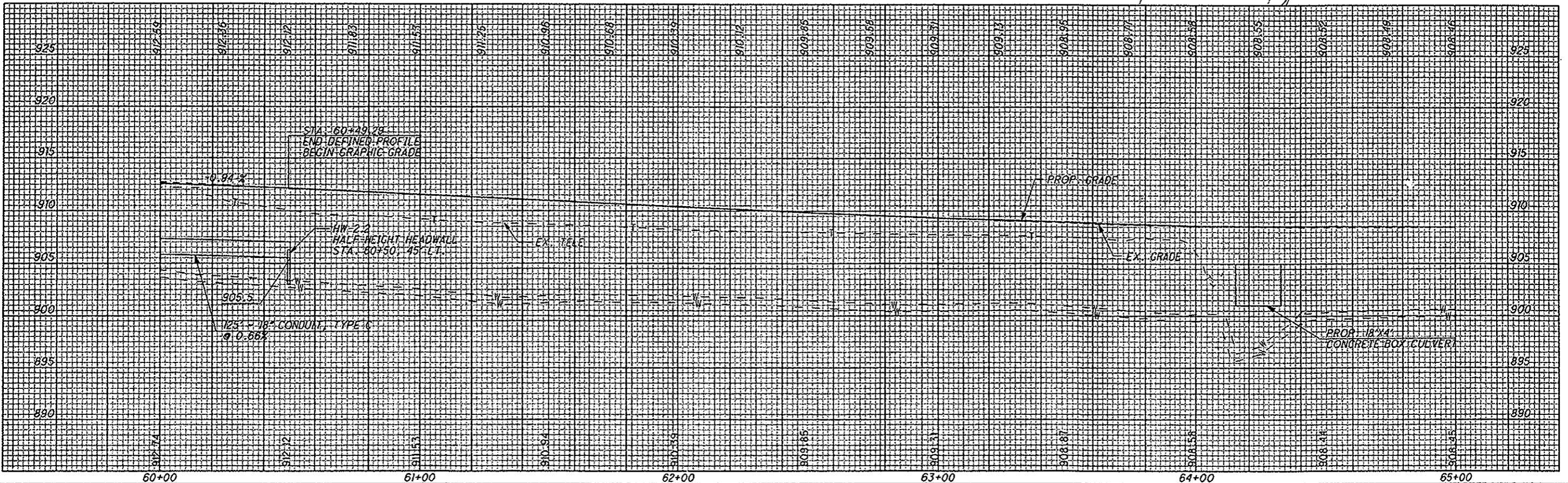
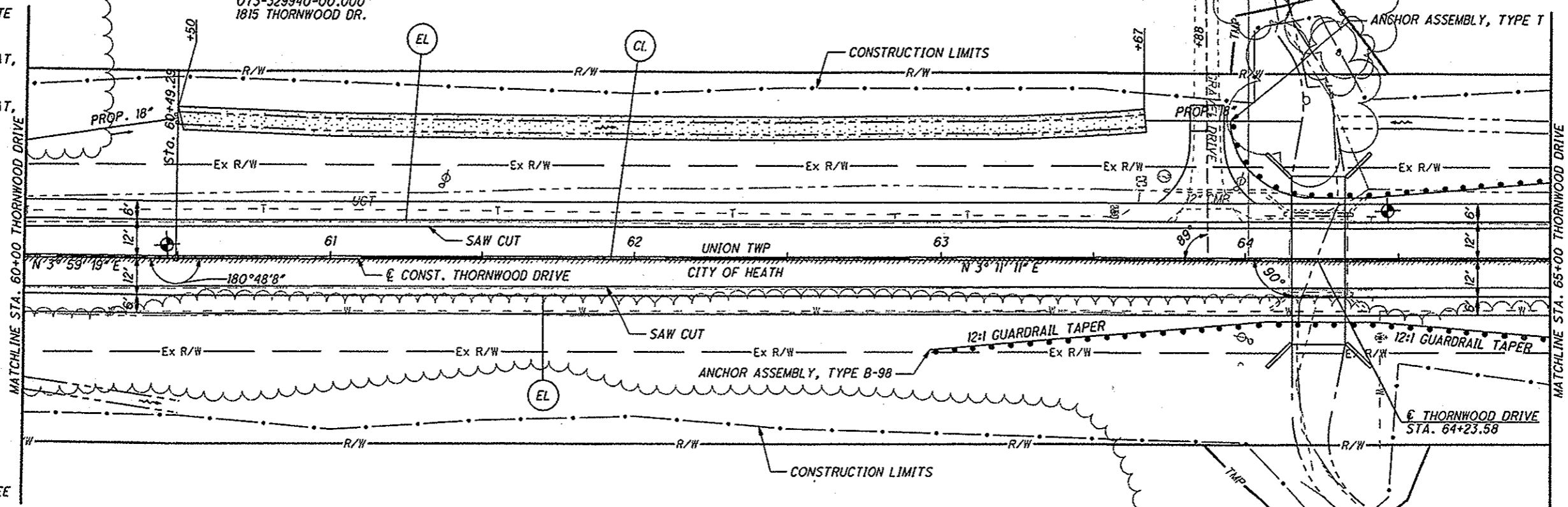
PETTIT CUSTOM BUILDERS
 200312190059502
 18.75 AC. - PAR. 2
 073-329940-00.000
 1815 THORNWOOD DR.

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

FOR CROSS SECTIONS SEE SHEETS 106 TO 109

FOR DRIVE PROFILES SEE SHEET 108

FOR DRAINAGE DETAILS SEE SHEETS 276 TO 278






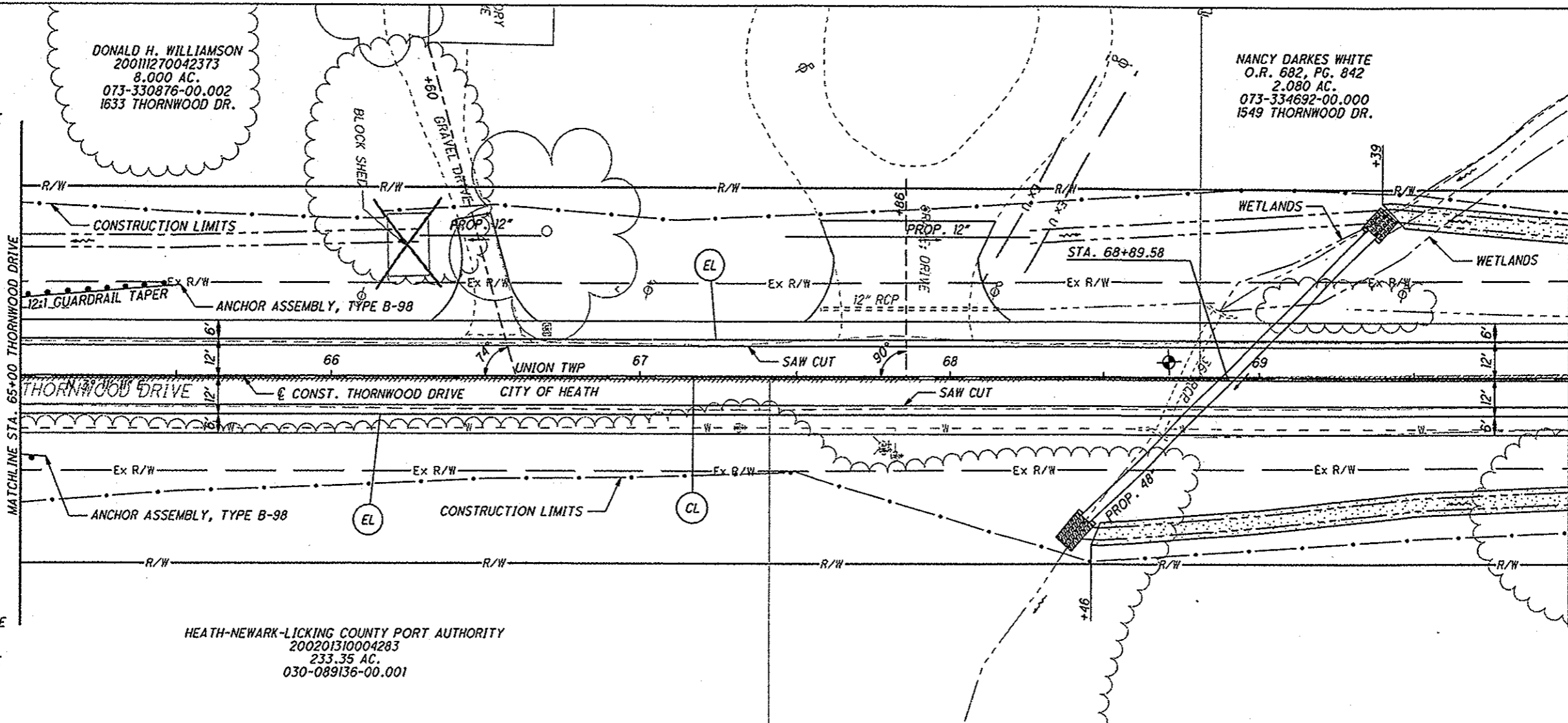
PLAN AND PROFILE - THORNWOOD
 STA. 60+00 TO STA. 65+00

LIC-THORNWOOD

IP_PWP.dms08268\78116GP013.dgn 02-SEP-2009 7:03AM jlove

LEGEND

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

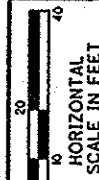


FOR CROSS SECTIONS SEE SHEETS 109 TO 113

FOR DRIVE PROFILES SEE SHEETS 111 TO 112

FOR DRAINAGE DETAILS SEE SHEET 279

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

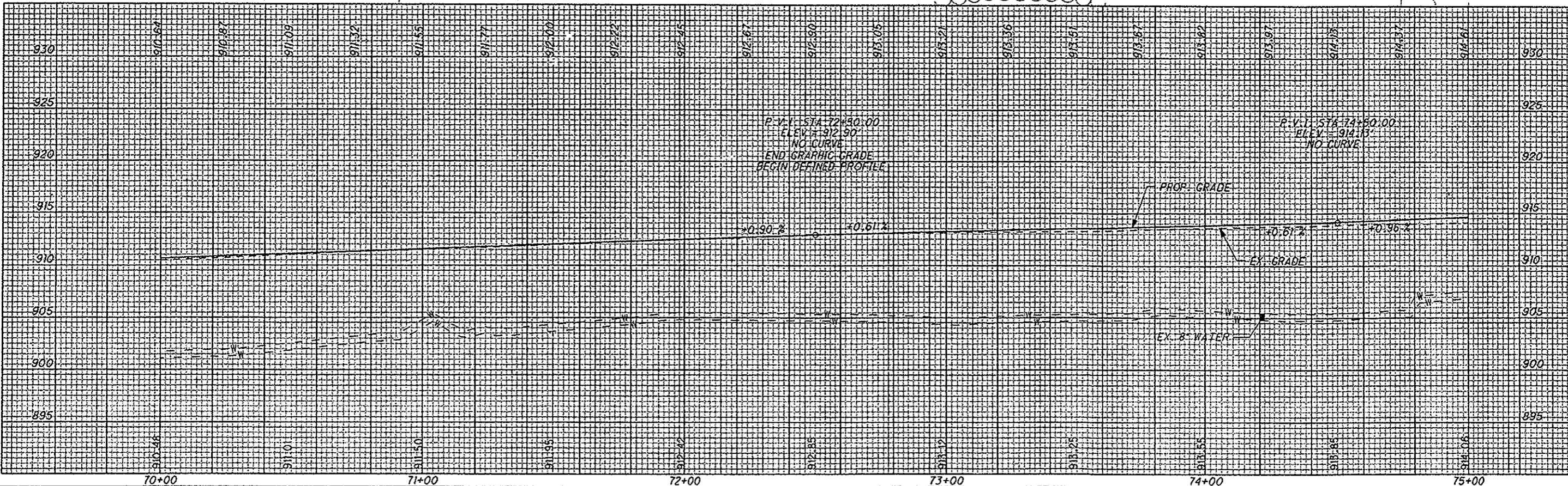
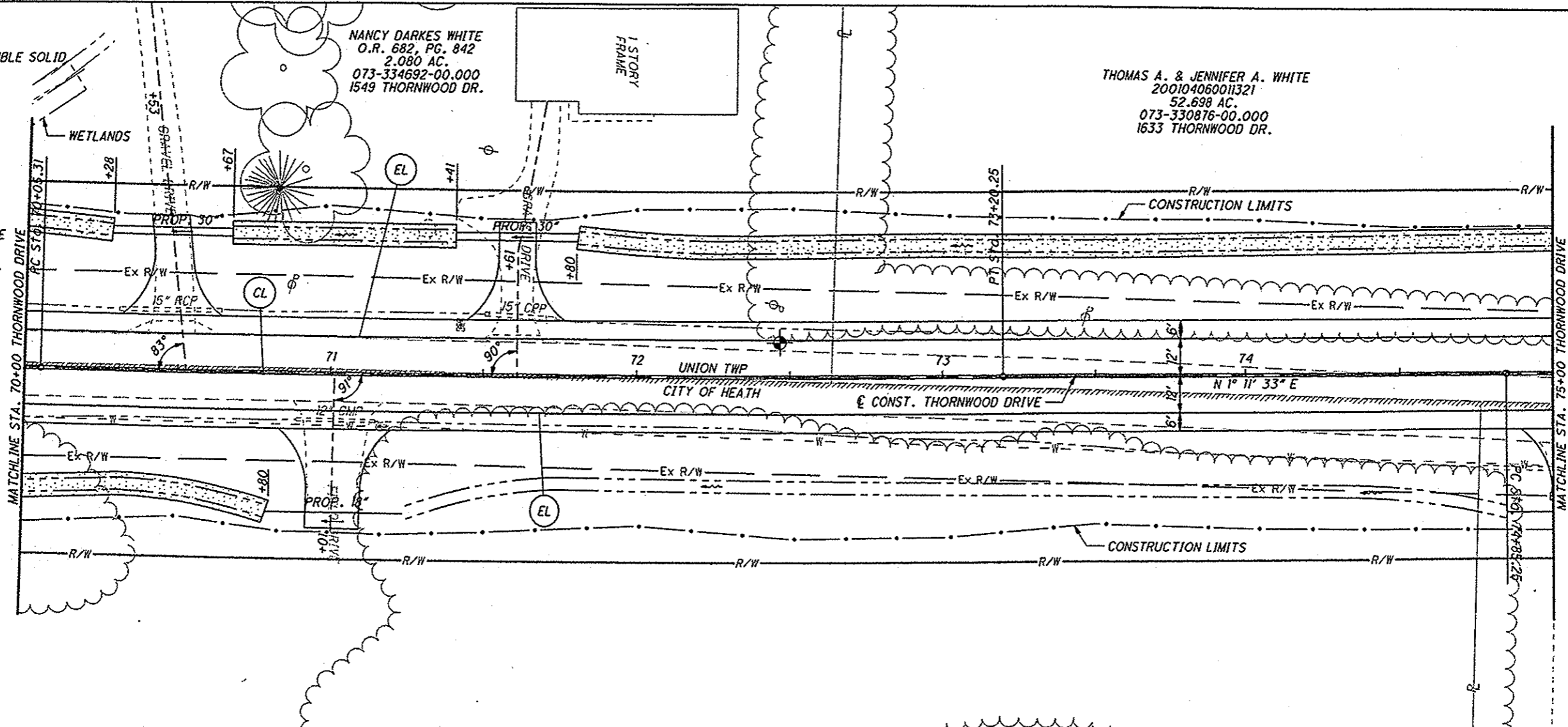
IP_PWP:dms08268\78116GP014.dgn 02-SEP-2009 7:04AM jlove

LEGEND

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

FOR CROSS SECTIONS SEE SHEETS 113 TO 117
FOR DRIVE PROFILES SEE SHEETS 113 TO 114

P.I. STA. 71+62.80
Δ = 1° 59' 38" (LT)
Dc = 0° 37' 59"
R = 9,050.00'
T = 157.48'
L = 314.93'
E = 1.37'
emax = N.C.



HORIZONTAL SCALE IN FEET




CALCULATED MMB CHECKED JEL

**PLAN AND PROFILE - THORNWOOD
STA. 70+00 TO STA. 75+00**

LIC-THORNWOOD

IP_PWP: dms08268\78116GP015.dgn 02-SEP-2009 7:04AM flove

LEGEND

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

FOR CROSS SECTIONS SEE SHEETS 117 TO 122
 FOR DRIVE PROFILES SEE SHEETS 117 TO 121

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

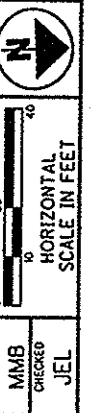
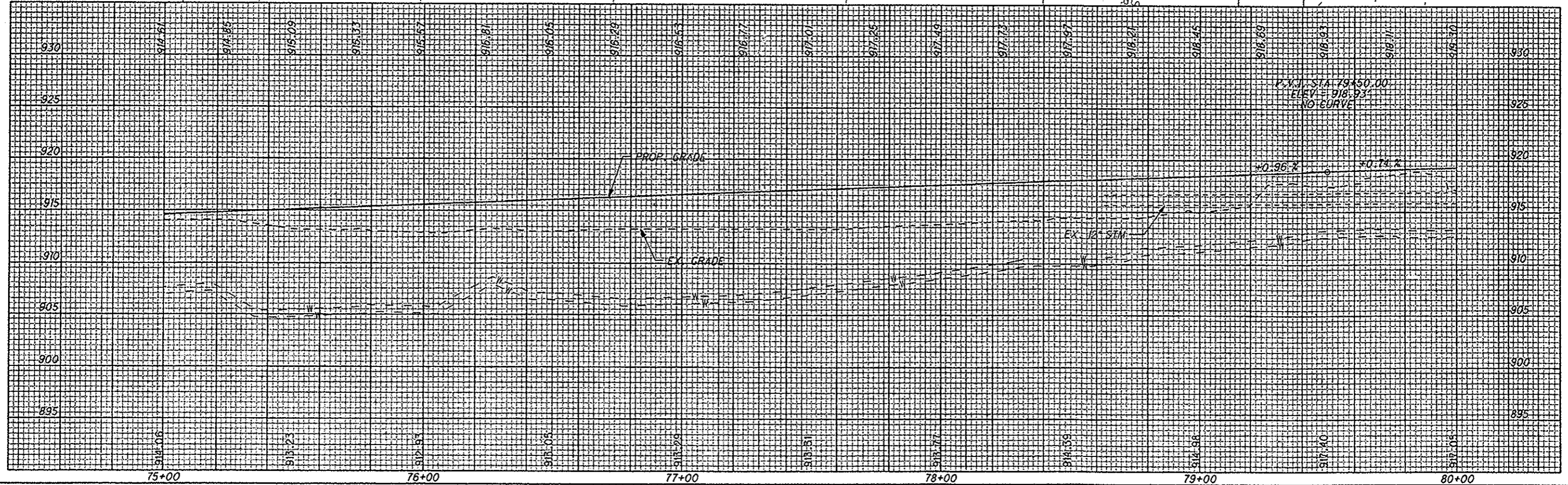
P.I. STA. 76+44.30
 $\Delta = 2^\circ 00' 49" (RT)$
 $Dc = 0^\circ 37' 59"$
 $R = 9,050.00'$
 $T = 159.05'$
 $L = 318.07'$
 $E = 1.40'$
 $emax = N.C.$

THOMAS A. & JENNIFER A. WHITE
 200104060011321
 52.698 AC.
 073-330876-00.000
 1633 THORNWOOD DR.

THOMAS A. & JENNIFER A. WHITE
 200207260027573
 5.162 AC.
 073-330876-00.001
 1475 THORNWOOD DR.

ESTHER KATHLEEN MOORE
 200310220051224
 1.000 AC.
 030-098628-00.000
 1480 THORNWOOD DR.

STEVEN W. & RUTH E. MYERS
 200305020019730
 1.054 AC.
 030-098628-00.001
 1470 THORNWOOD DR.



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

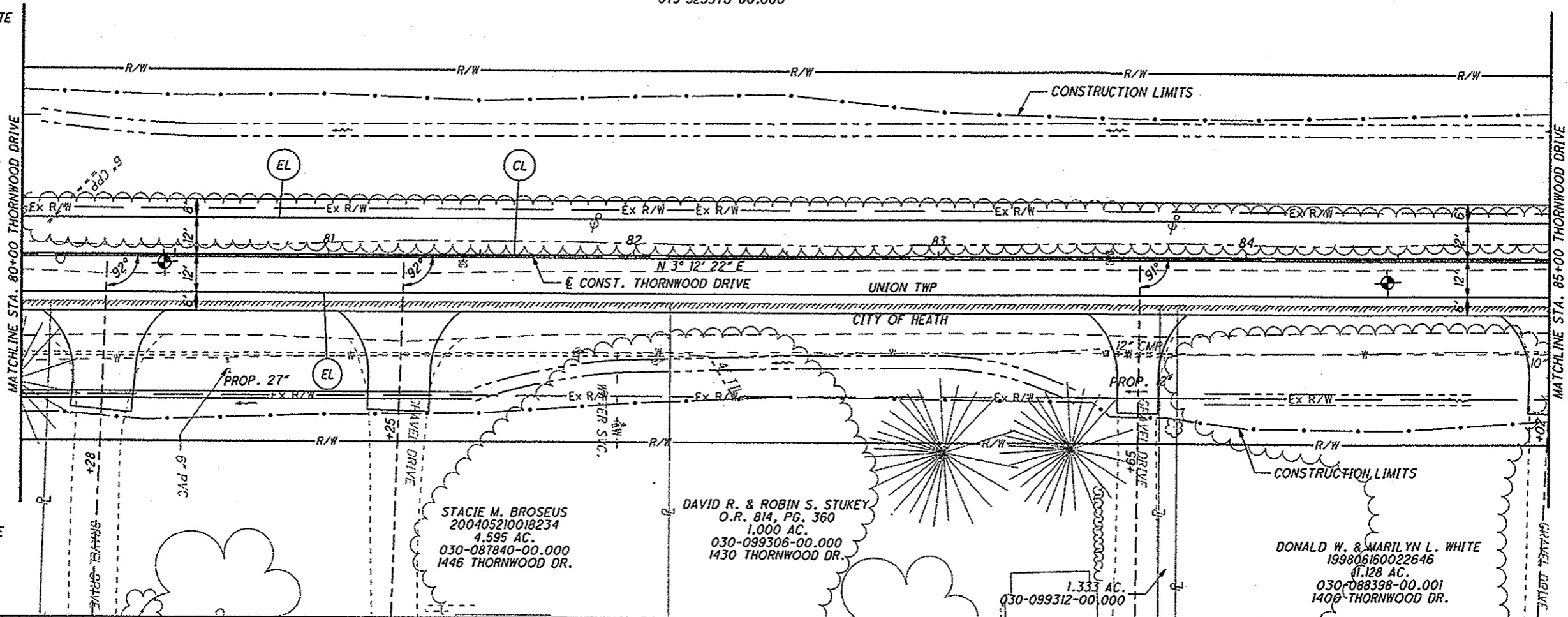
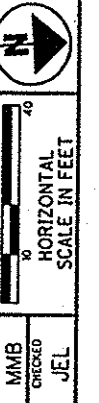
LIC-THORNWOOD

IP_PWP.dms08268\78116GP016.dgn 02-SEP-2009 7:04AM flove

LEGEND

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

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



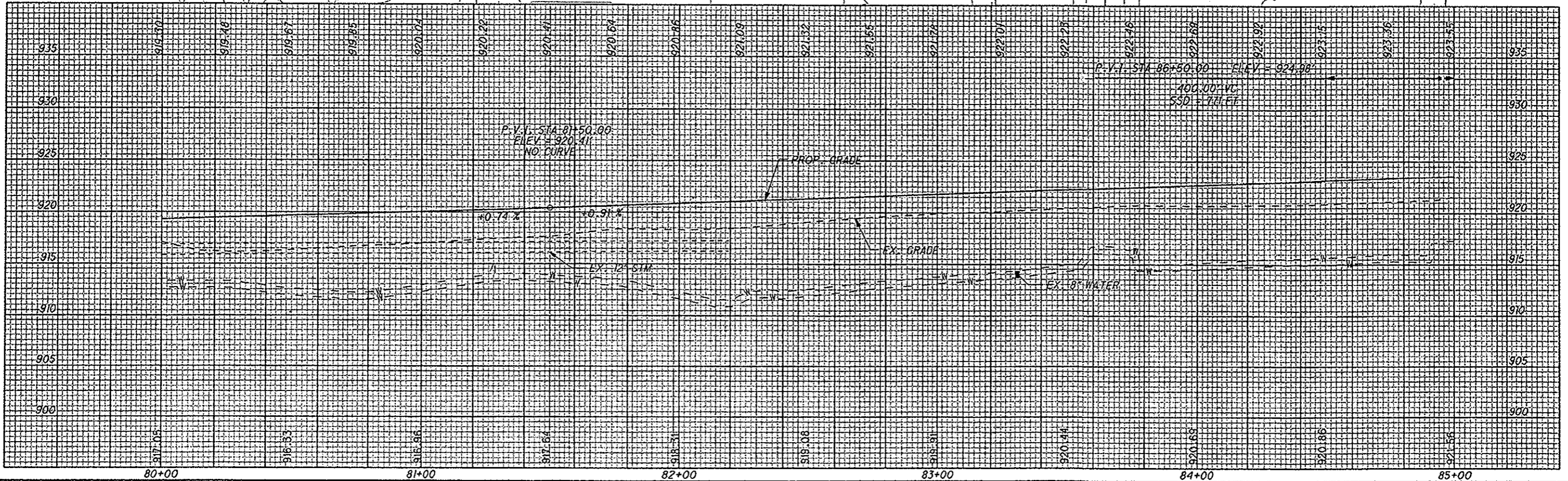
FOR CROSS SECTIONS SEE SHEETS 122 TO 126
 FOR DRIVE PROFILES SEE SHEETS 122 TO 125

STACIE M. BROSEUS
 200405210018234
 4.595 AC.
 030-087840-00.000
 1446 THORNWOOD DR.

DAVID R. & ROBIN S. STUCKY
 O.R. 814, PG. 360
 1.000 AC.
 030-099306-00.000
 1430 THORNWOOD DR.

1.333 AC.
 030-099312-00.000



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



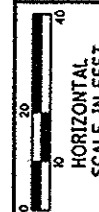
PLAN AND PROFILE - THORNWOOD
STA. 80+00 TO STA. 85+00

LIC-THORNWOOD

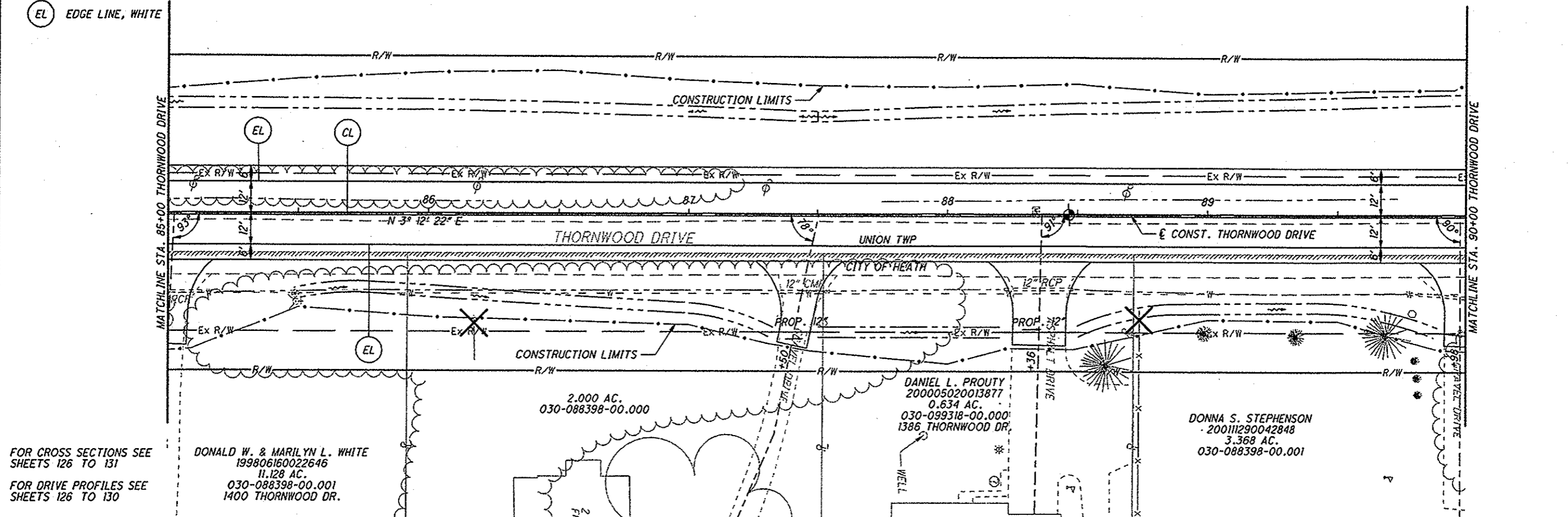
LEGEND

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

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



CALCULATED
MMB
CHECKED
JEL



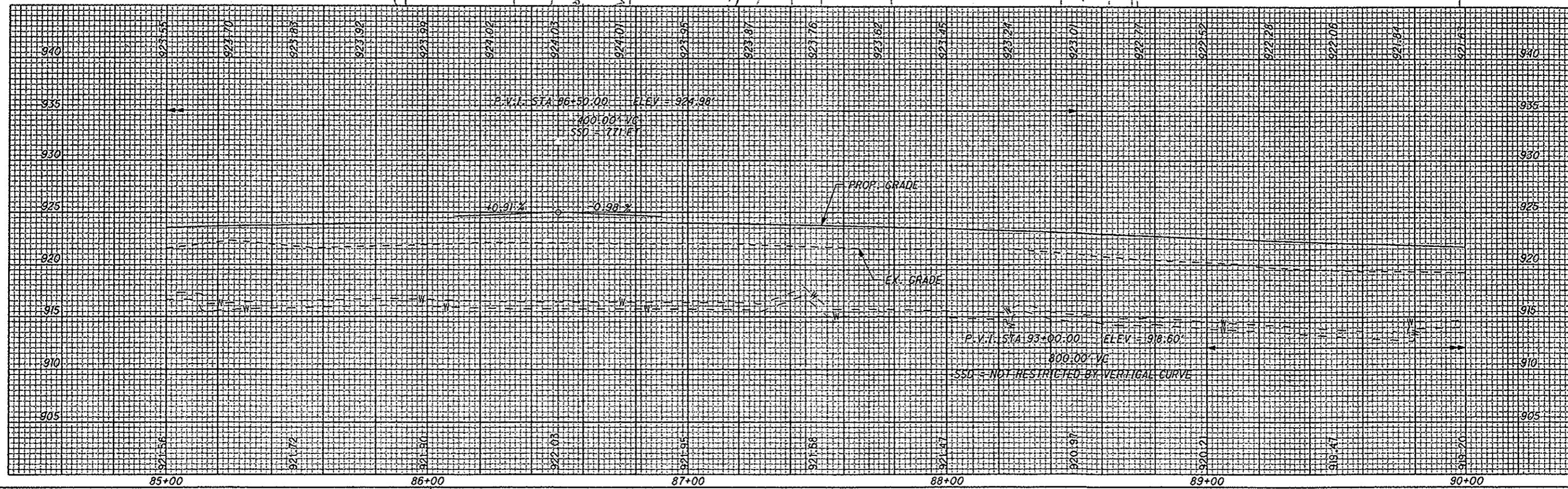
FOR CROSS SECTIONS SEE SHEETS 126 TO 131
FOR DRIVE PROFILES SEE SHEETS 126 TO 130

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



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

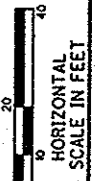
LIC-THORNWOOD

IP_PWF.dms08268\781166P018.dgn 02-SEP-2009 7:04AM Proeve

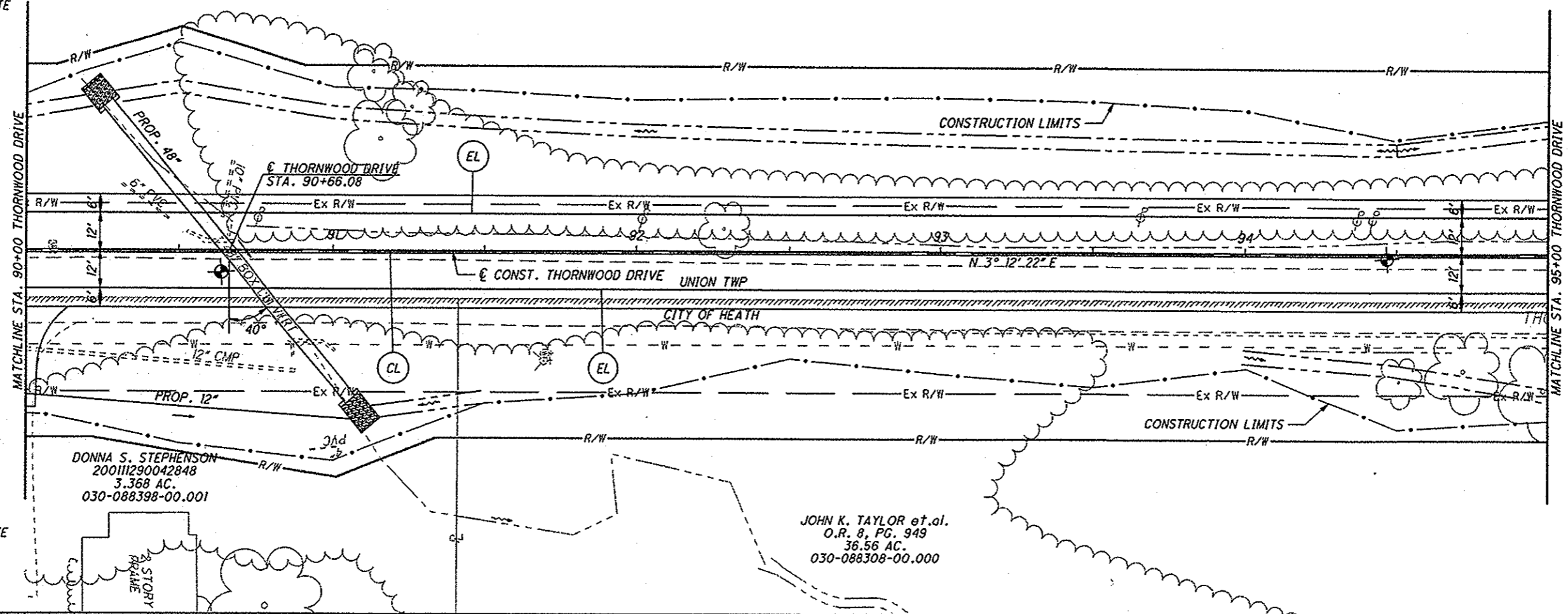
LEGEND

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

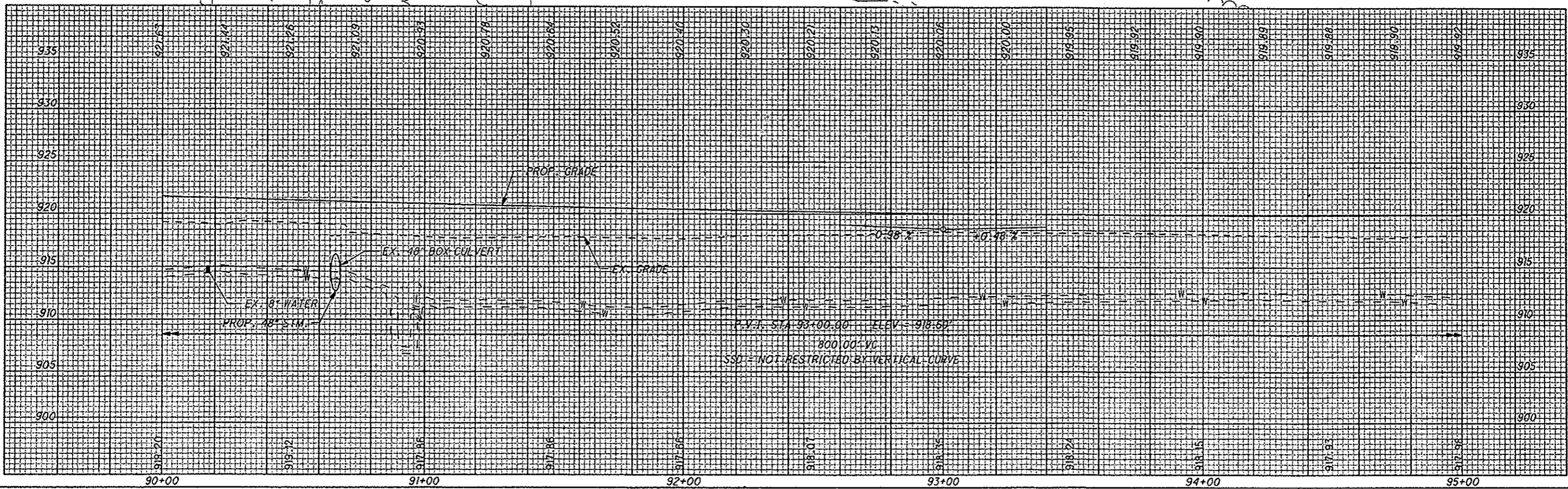
RICHARD L. MILLER
 200005230016258
 100.000 AC.
 073-329376-00.000



CALCULATED
 MMB
 CHECKED
 JEL



FOR CROSS SECTIONS SEE SHEETS 131 TO 134
 FOR DRAINAGE DETAILS SEE SHEET 280






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

LIC-THORNWOOD

IP_PWP.dms08268\78116CP019.dgn 02-SEP-2009 7:04AM jrove

LEGEND

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

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

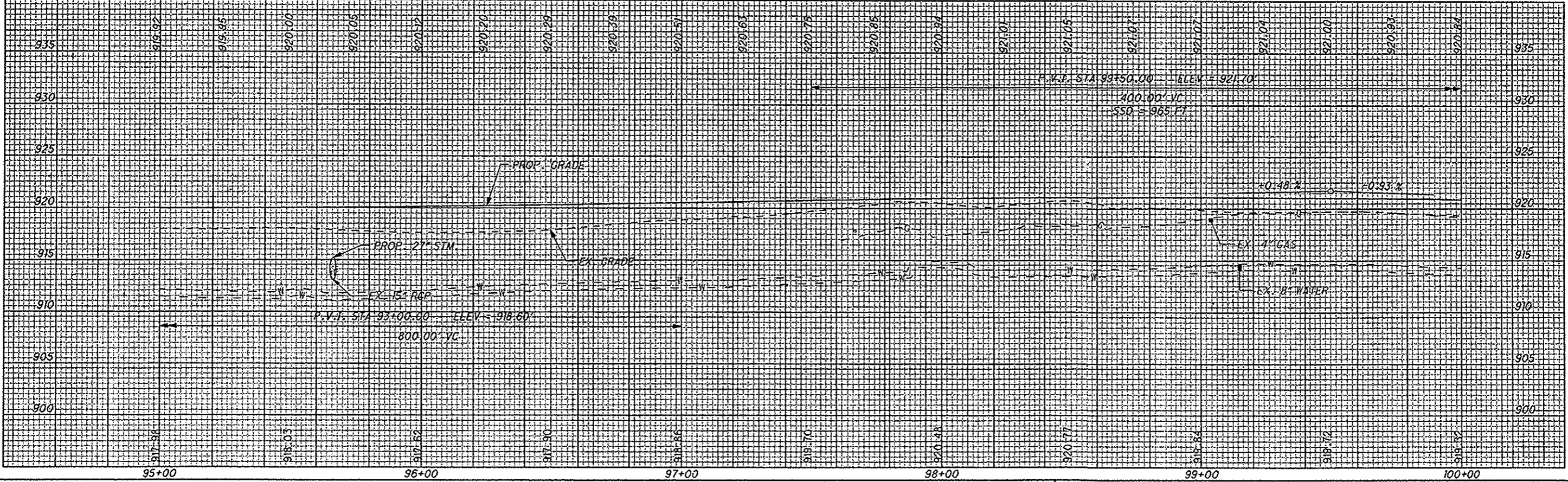
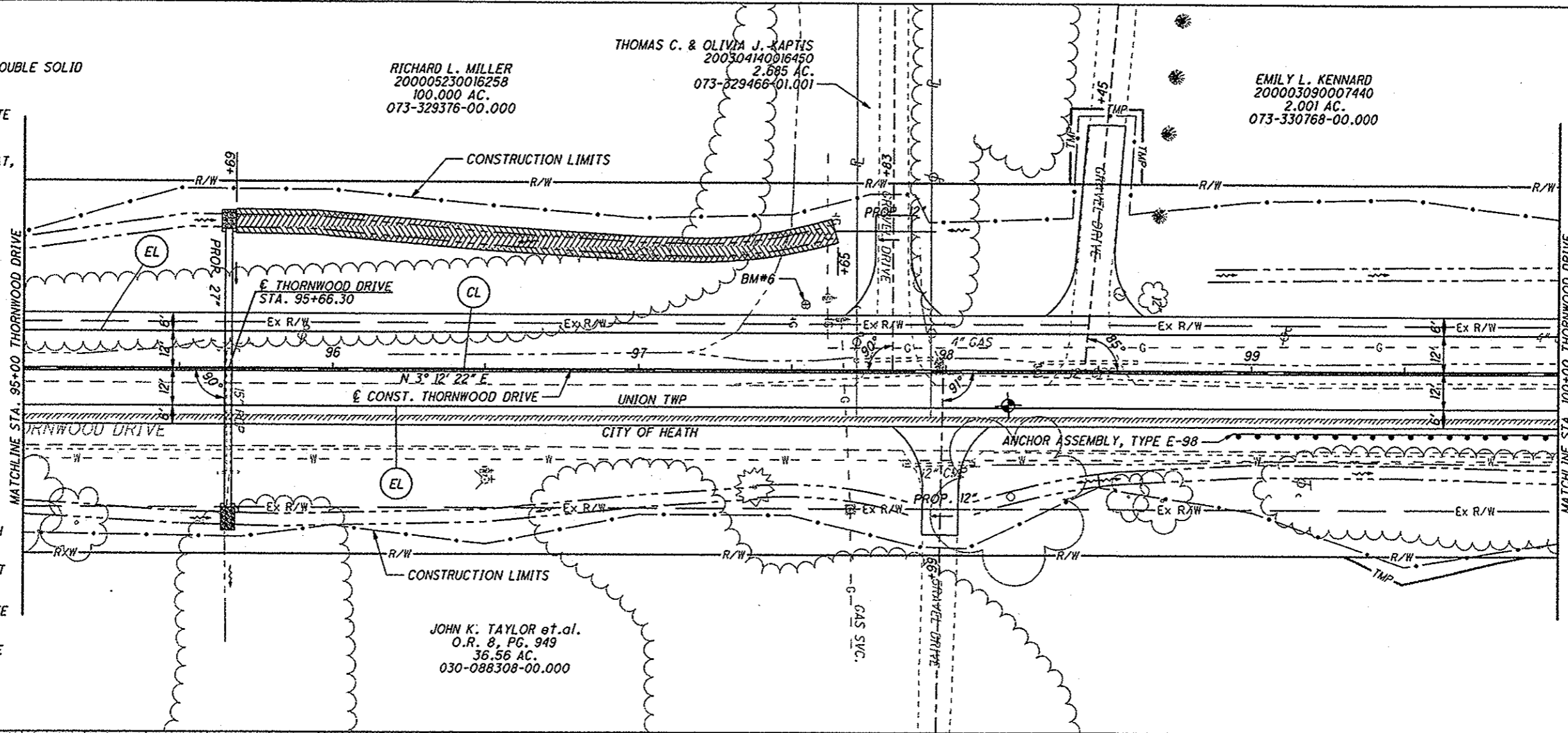
JOHN K. TAYLOR et.al.
O.R. 8, PG. 949
36.56 AC.
030-088308-00.000


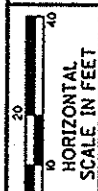
BM#6 IRON PIN SET WITH
YELLOW 'TRAV' CAP
ELEV=919.62,
STA. 97+54.68, 21.44' LT

FOR CROSS SECTIONS SEE
SHEETS 134 TO 139

FOR DRIVE PROFILES SEE
SHEETS 136 TO 137

FOR DRAINAGE DETAILS
SEE SHEET 281









 HORIZONTAL SCALE IN FEET
 CALCULATED MMB
 CHECKED JEL

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

LIC-THORNWOOD

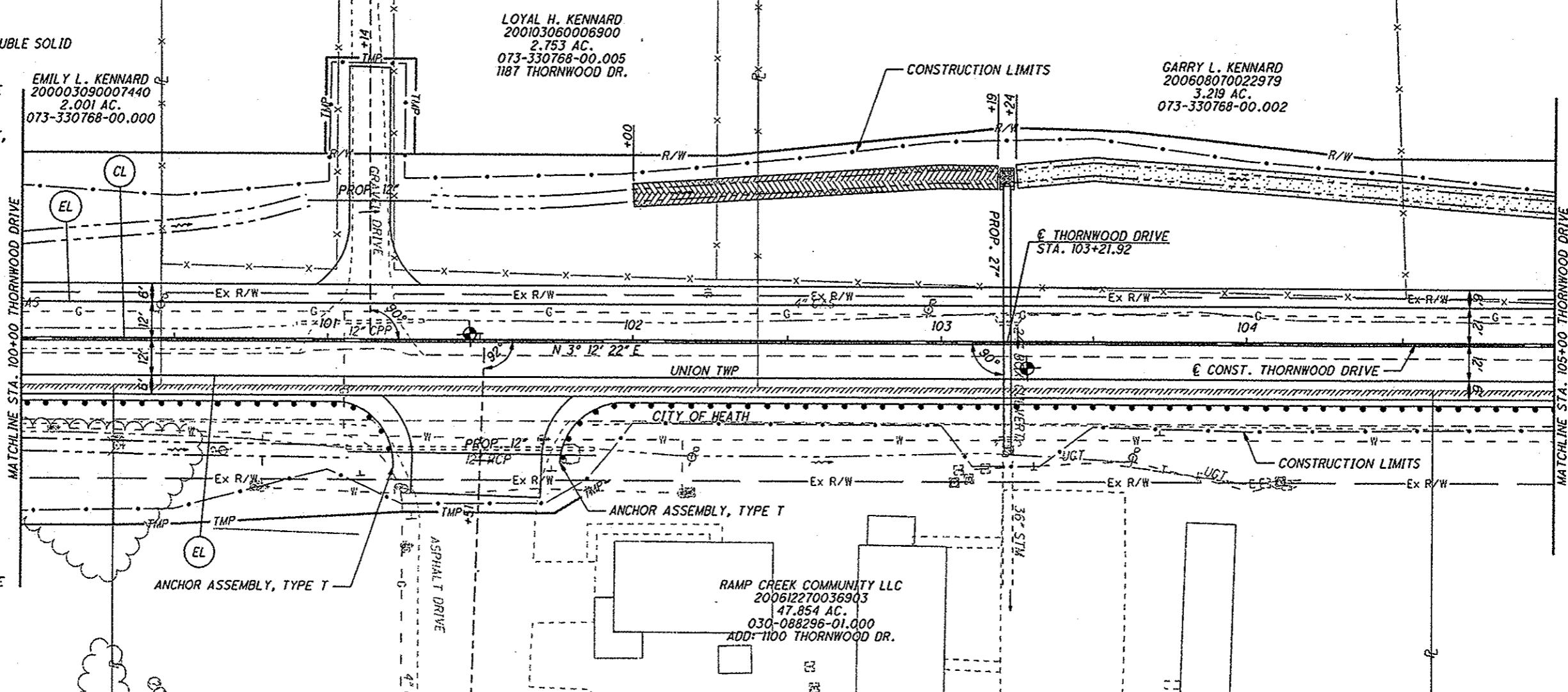
IP_PWP.dms08266\78116GF020.dgn 02-SEP-2009 7:05AM jlove

LEGEND

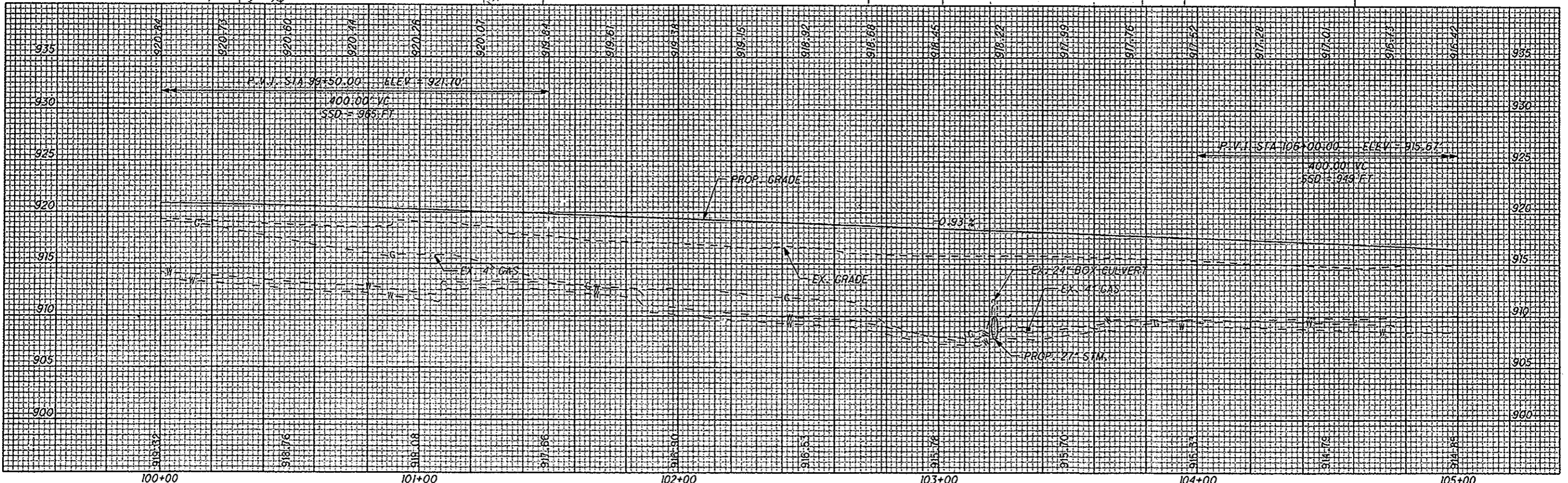
-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  7.5' WIDE DITCH EROSION PROTECTION

MATCHLINE STA. 100+00 THORNWOOD DRIVE

MATCHLINE STA. 105+00 THORNWOOD DRIVE



FOR CROSS SECTIONS SEE SHEETS 139 TO 143
 FOR DRIVE PROFILES SEE SHEET 140
 FOR DRAINAGE DETAILS SEE SHEET 282



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

LIC-THORNWOOD

IP_PWP.dms08266\78116GP021.dgn 02-SEP-2009 7:05AM flove

LEGEND

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

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

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

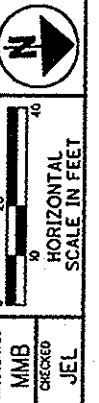
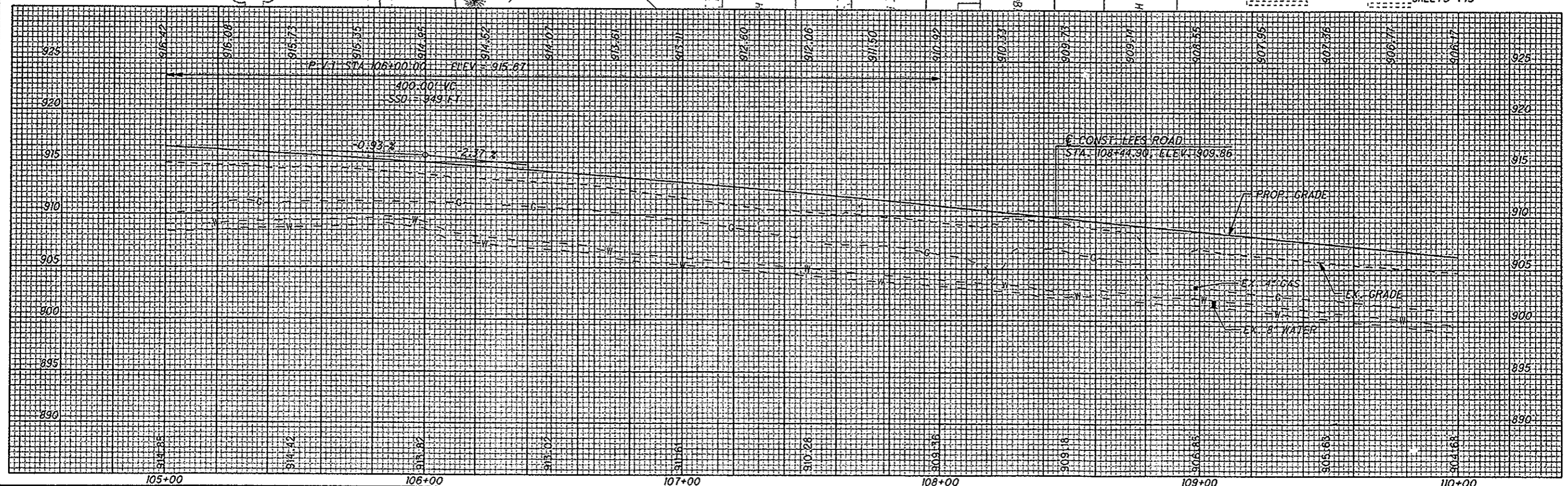
TIM E. & VICKY GHILONI
 200307250035135
 3.219 AC.
 073-330768-00.003
 2982 LEES RD.

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

IP_PWP: dms08268\78116GP022.dgn 02-SEP-2009 7:05AM jlove

LEGEND

-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE TURF REINFORCING MAT, TYPE I

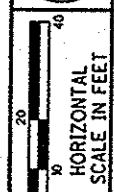
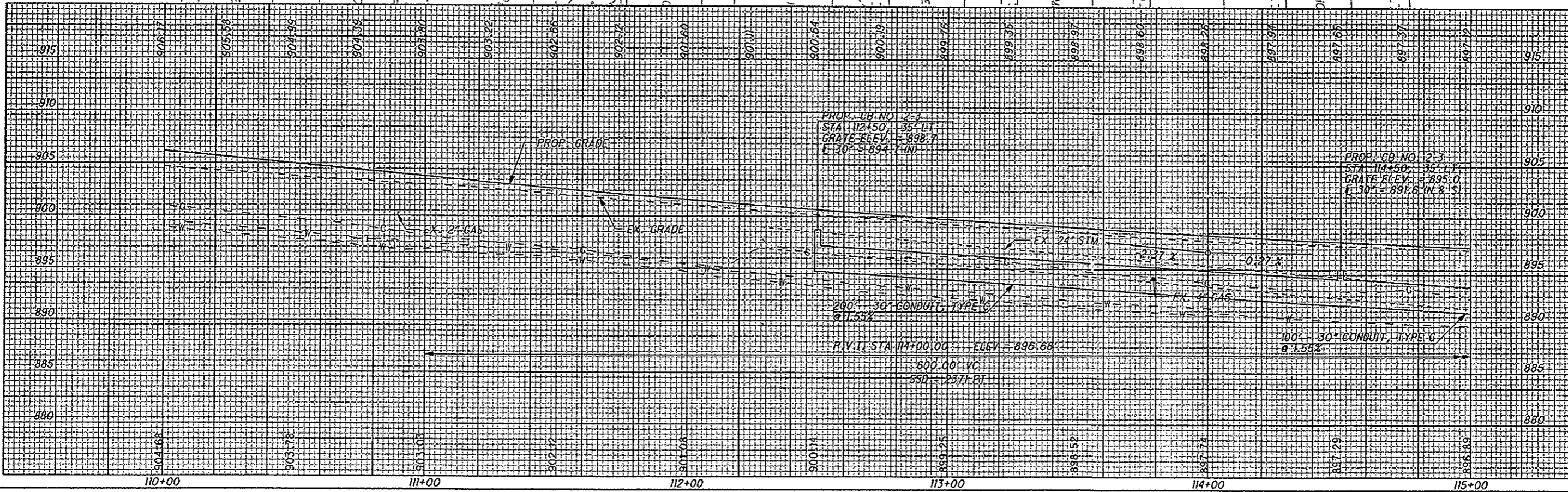
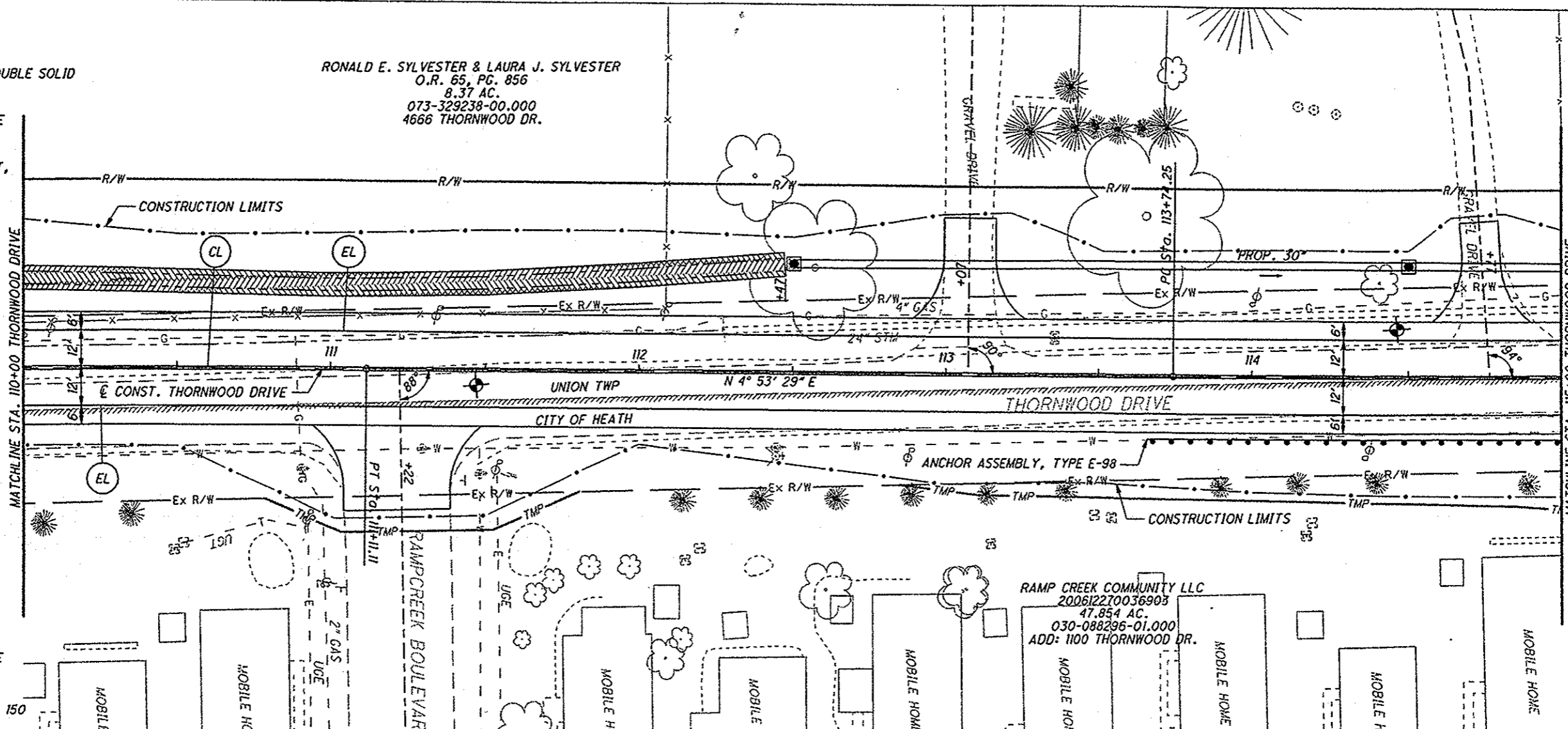
RONALD E. SYLVESTER & LAURA J. SYLVESTER
 O.R. 65, PG. 856
 8.37 AC.
 073-329238-00.000
 4666 THORNWOOD DR.

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

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

FOR CROSS SECTIONS SEE SHEETS 146 TO 150

FOR DRIVE PROFILES SEE SHEETS 147 AND 149 TO 150



CALCULATED MMB
 CHECKED JEL

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

LIC-THORNWOOD

IP_PWP_dms08268\781160P023.dgn 02-SEP-2009 7:05AM jlove

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



0 10 20
HORIZONTAL
SCALE IN FEET

CALCULATED
MMB
CHECKED
JEL

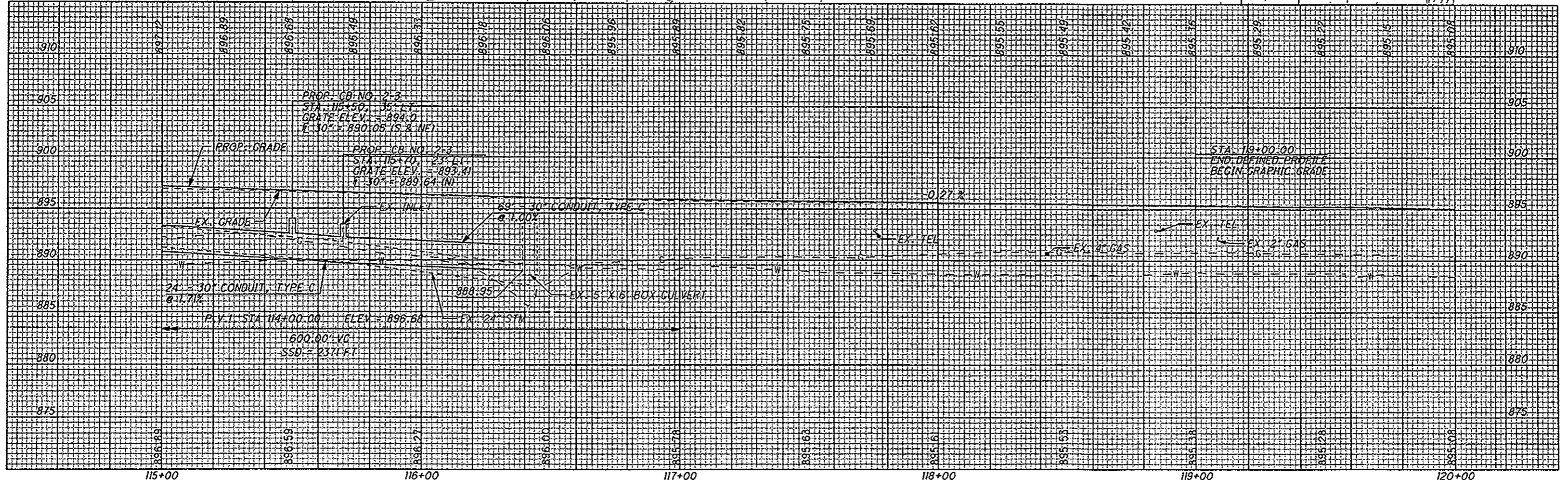
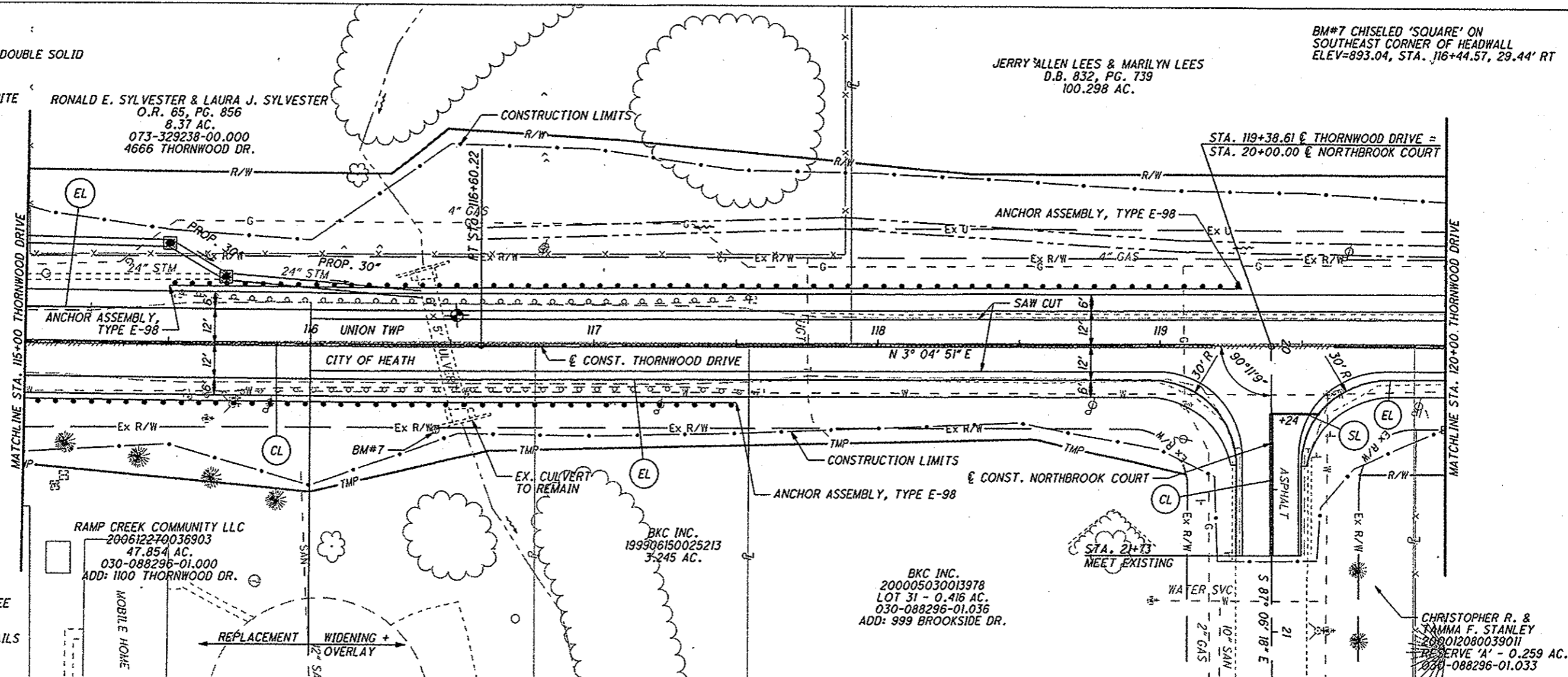
PLAN AND PROFILE - THORNWOOD
STA. 115+00 TO STA. 120+00

LIC-THORNWOOD

37
285



P.I. STA. 115+17.24
Δ = 1° 48' 38" (LT)
Dc = 0° 37' 59"
R = 9,050.00'
T = 143.00'
L = 285.97'
E = 1.13'
emox = N.C.

FOR CROSS SECTIONS SEE
SHEETS 150 TO 153
FOR INTERSECTION DETAILS
SEE SHEET 259


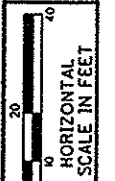


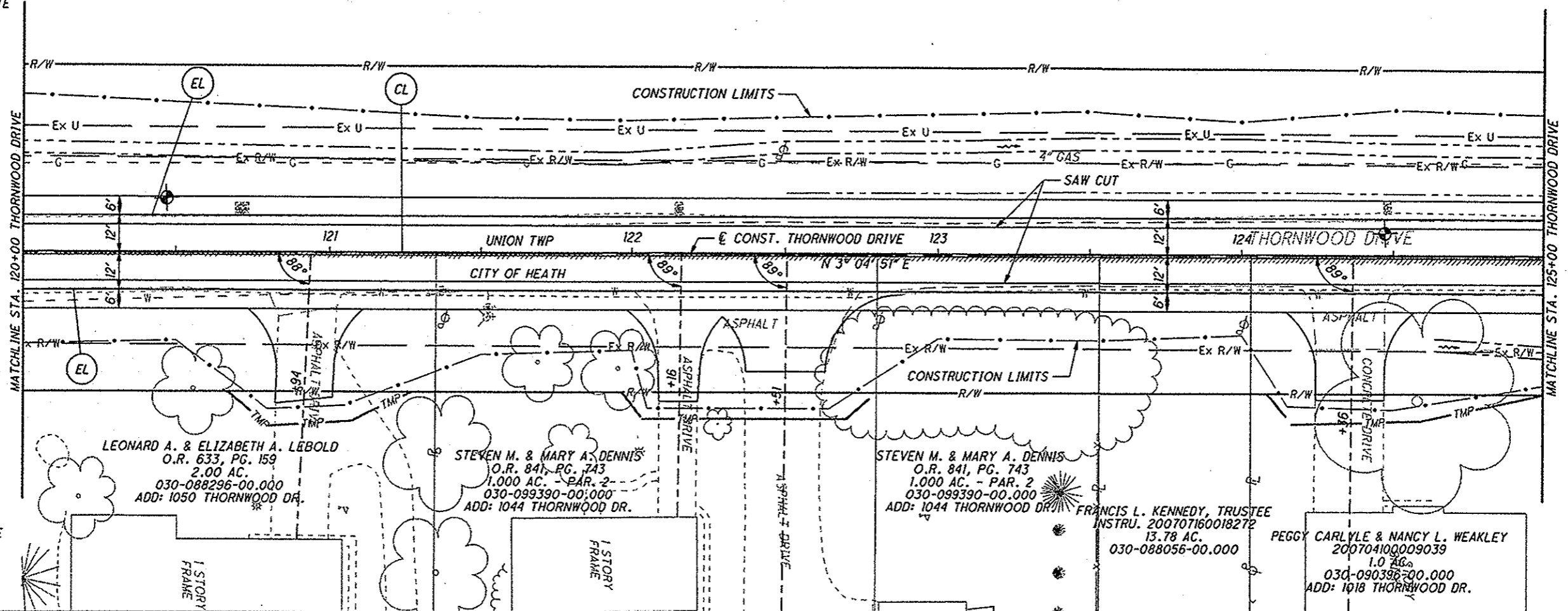
IP_PWP-dms08268\78116GP024.dgn 02-SEP-2009 7:05AM jlove

LEGEND

-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE

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



 HORIZONTAL SCALE IN FEET
 CALCULATED MMB
 CHECKED JEL



FOR CROSS SECTIONS SEE SHEETS 153 TO 158
FOR DRIVE PROFILES SEE SHEETS 154 TO 157

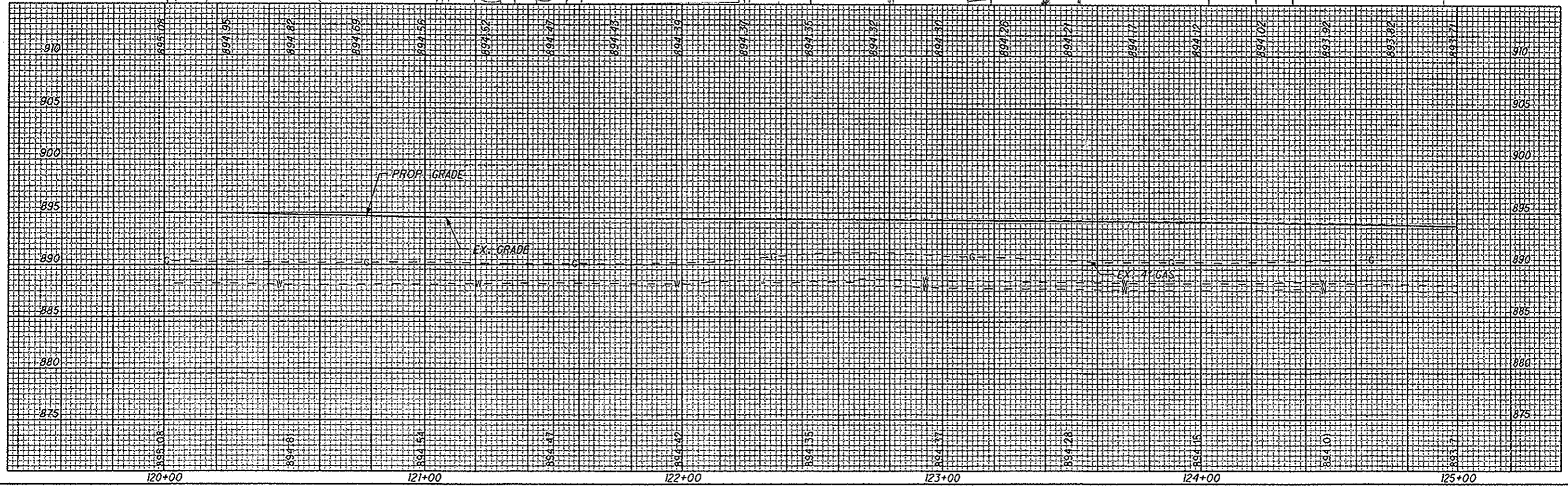
LEONARD A. & ELIZABETH A. LEBOLD
O.R. 633, PG. 159
2.00 AC.
030-088296-00.000
ADD: 1050 THORNWOOD DR.

STEVEN M. & MARY A. DENNIS
O.R. 841, PG. 743
1.000 AC. - PAR. 2
030-099390-00.000
ADD: 1044 THORNWOOD DR.

STEVEN M. & MARY A. DENNIS
O.R. 841, PG. 743
1.000 AC. - PAR. 2
030-099390-00.000
ADD: 1044 THORNWOOD DR.

FRANCIS L. KENNEDY, TRUSTEE
INSTRU. 20070160018272
13.78 AC.
030-088056-00.000

PEGGY CARLYLE & NANCY L. WEAKLEY
200704100009039
1.0 AC.
030-090396-00.000
ADD: 1018 THORNWOOD DR.






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

LIC-THORNWOOD

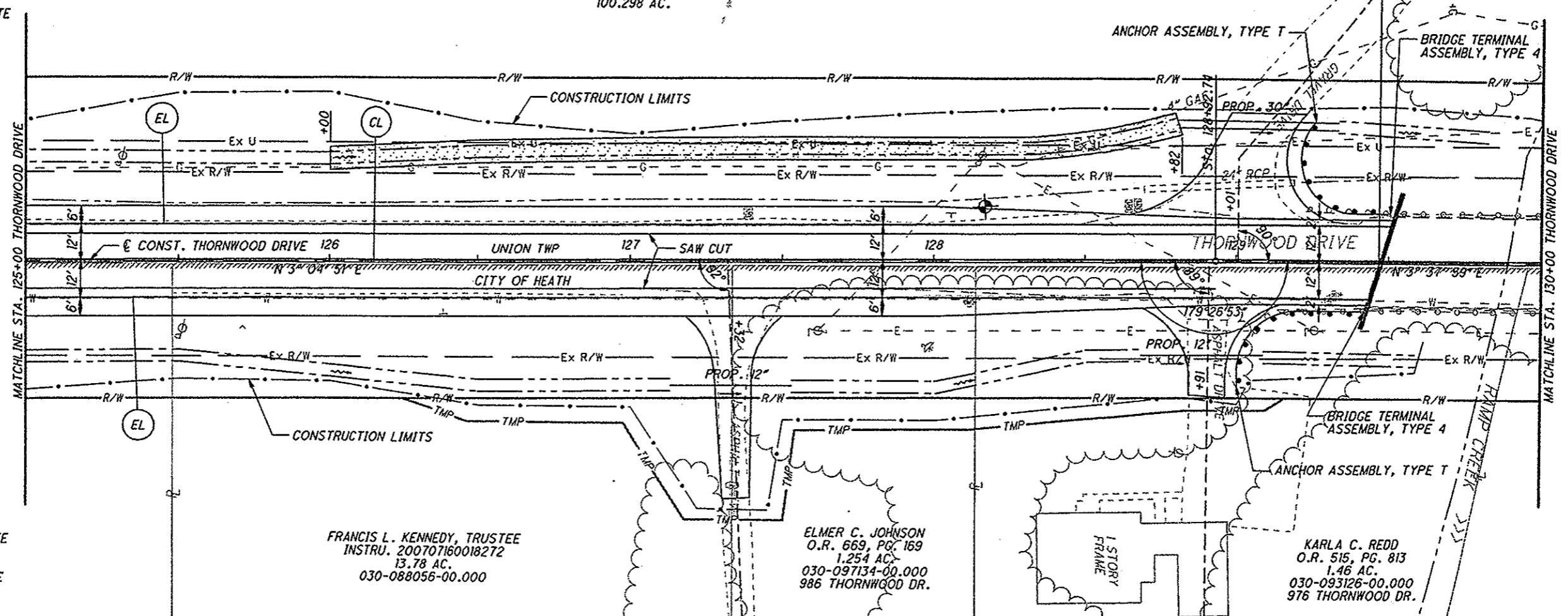
IP_PWP: dms08266\78116GPO25.dgn 02-SEP-2009 7:06AM jlove

LEGEND

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

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

SUSPEND WORK
STA 129+46.60

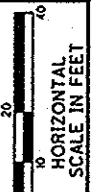


FOR CROSS SECTIONS SEE SHEETS 158 TO 161
FOR DRIVE PROFILES SEE SHEETS 159 TO 161

FRANCIS L. KENNEDY, TRUSTEE
INSTRU. 200707160018272
13.78 AC.
030-088056-00.000

ELMER C. JOHNSON
O.R. 669, PG. 169
1.254 AC.
030-097134-00.000
986 THORNWOOD DR.

KARLA C. REDD
O.R. 515, PG. 813
1.46 AC.
030-093126-00.000
976 THORNWOOD DR.



CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

LEGEND

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

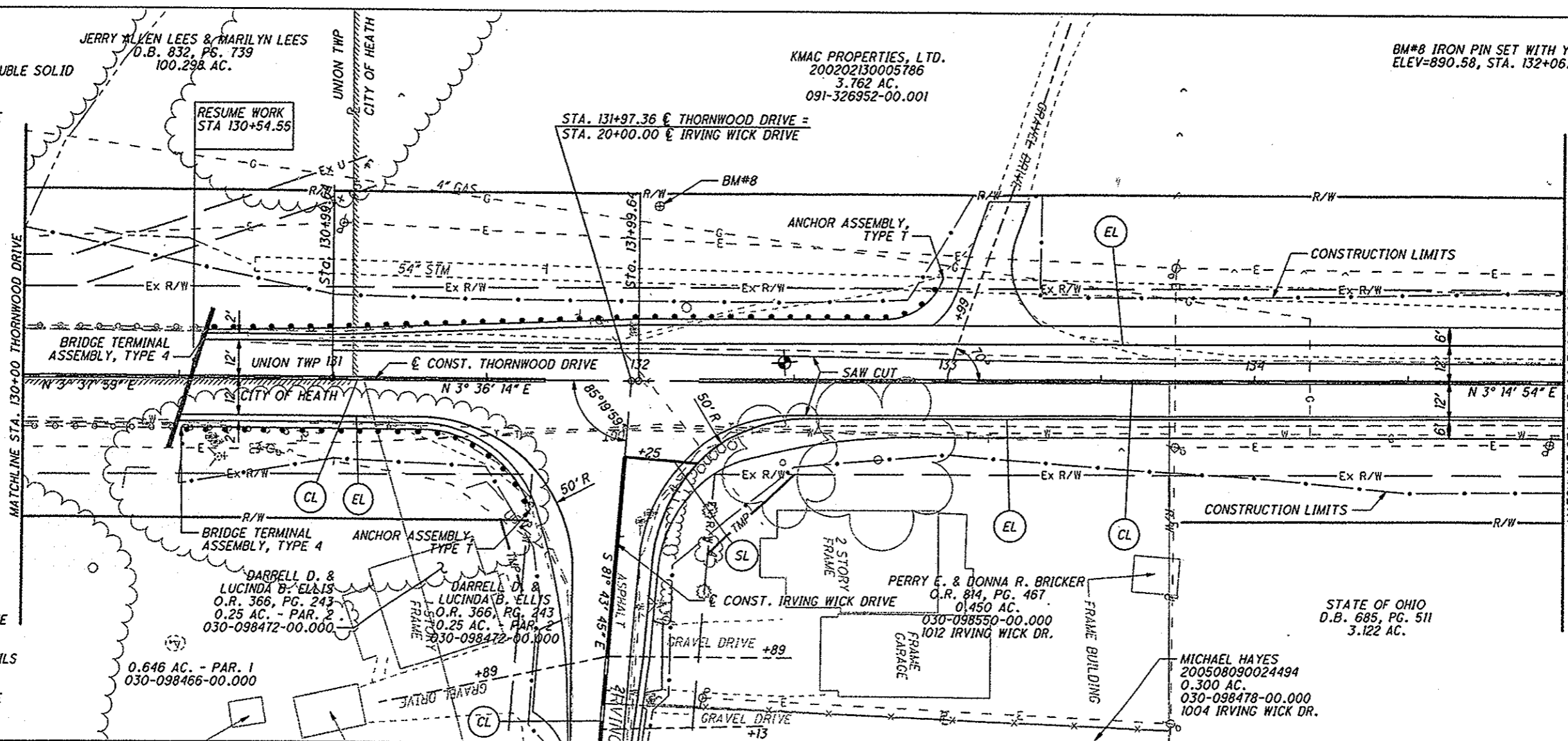
JERRY ALLEN LEES & MARILYN LEES
D.B. 832, PG. 739
100.298 AC.

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

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

RESUME WORK
STA 130+54.55

STA. 131+97.36 @ THORNWOOD DRIVE =
STA. 20+00.00 @ IRVING WICK DRIVE



FOR CROSS SECTIONS SEE SHEETS 161 TO 165

FOR INTERSECTION DETAILS SEE SHEET 260

FOR DRIVE PROFILES SEE SHEET 163

0.646 AC. - PAR. 1
030-098466-00.000

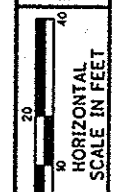
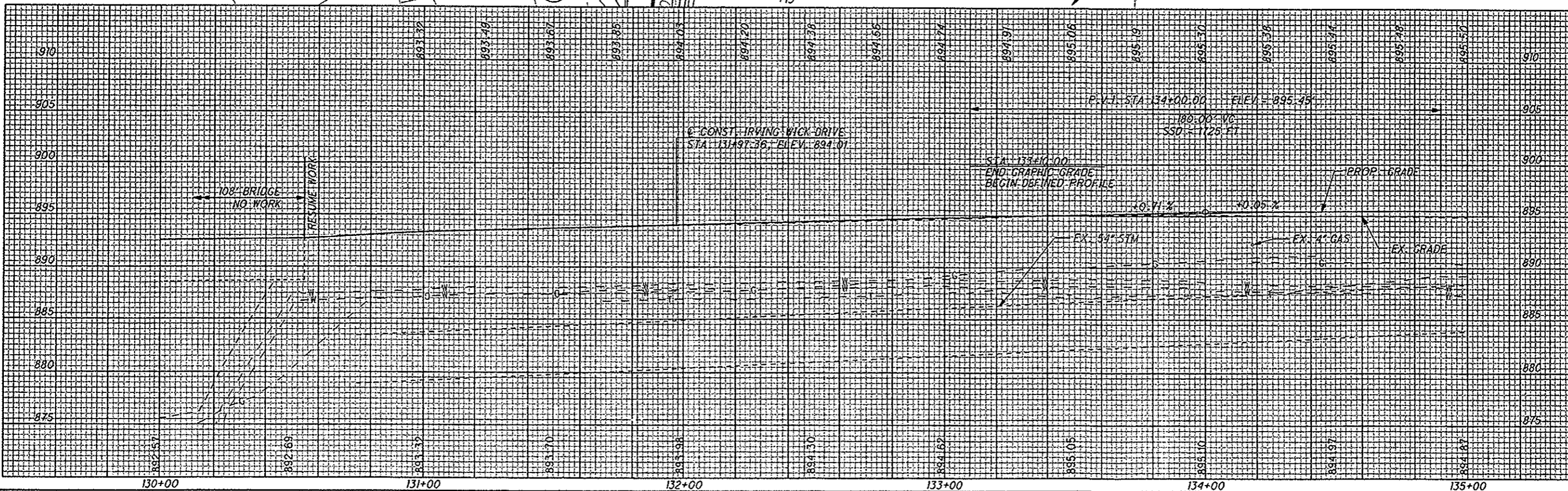
DARRELL D. & LUCINDA B. ELLIS
O.R. 366, PG. 243
0.25 AC. - PAR. 2
030-098472-00.000

DARRELL D. & LUCINDA B. ELLIS
O.R. 366, PG. 243
0.25 AC. - PAR. 2
030-098472-00.000

PERRY E. & DONNA R. BRICKER
O.R. 814, PG. 467
0.450 AC.
030-098550-00.000
1012 IRVING WICK DR.

MICHAEL HAYES
200508090024494
0.300 AC.
030-098478-00.000
1004 IRVING WICK DR.

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



CALCULATED
MMB
CHECKED
JEL

PLAN AND PROFILE - THORNWOOD
STA. 130+00 TO STA. 135+00

LIC-THORNWOOD

40
285

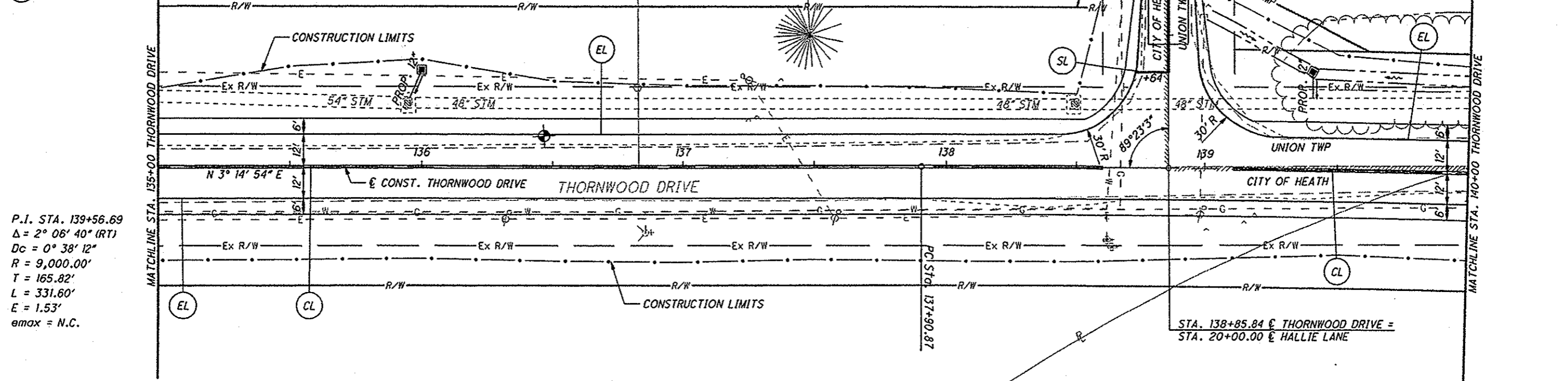
LEGEND

- (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

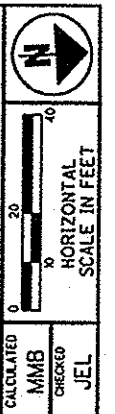
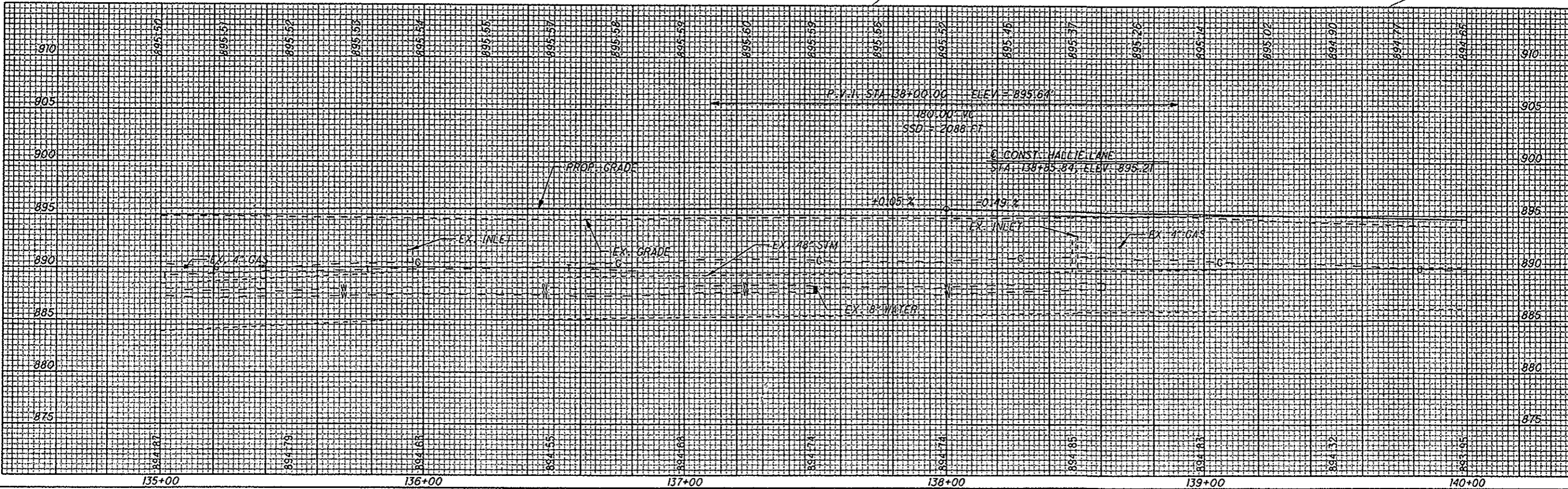


P.I. STA. 139+56.69
 $\Delta = 2^\circ 06' 40''$ (RT)
 $D_c = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 165.82'$
 $L = 331.60'$
 $E = 1.53'$
 $e_{max} = N.C.$

FOR CROSS SECTIONS SEE SHEETS 165 TO 168
FOR INTERSECTION DETAILS SEE SHEET 260

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

IP_P:\WP\dms08268\78116GP028.dgn 02-SEP-2009 7:06AM jrove

LEGEND

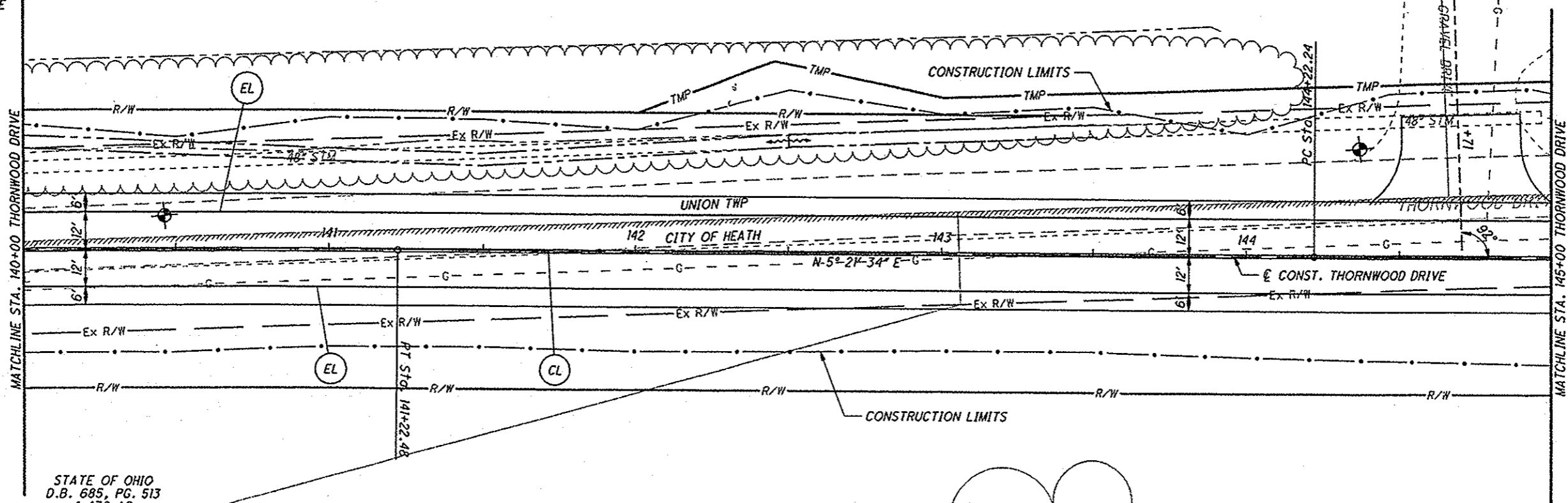
- (CL) CENTER LINE, DOUBLE SOLID
- (EL) EDGE LINE, WHITE

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)
 $D_c = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 368.30'$
 $L = 736.19'$
 $E = 7.53'$
 $e_{max} = N.C.$

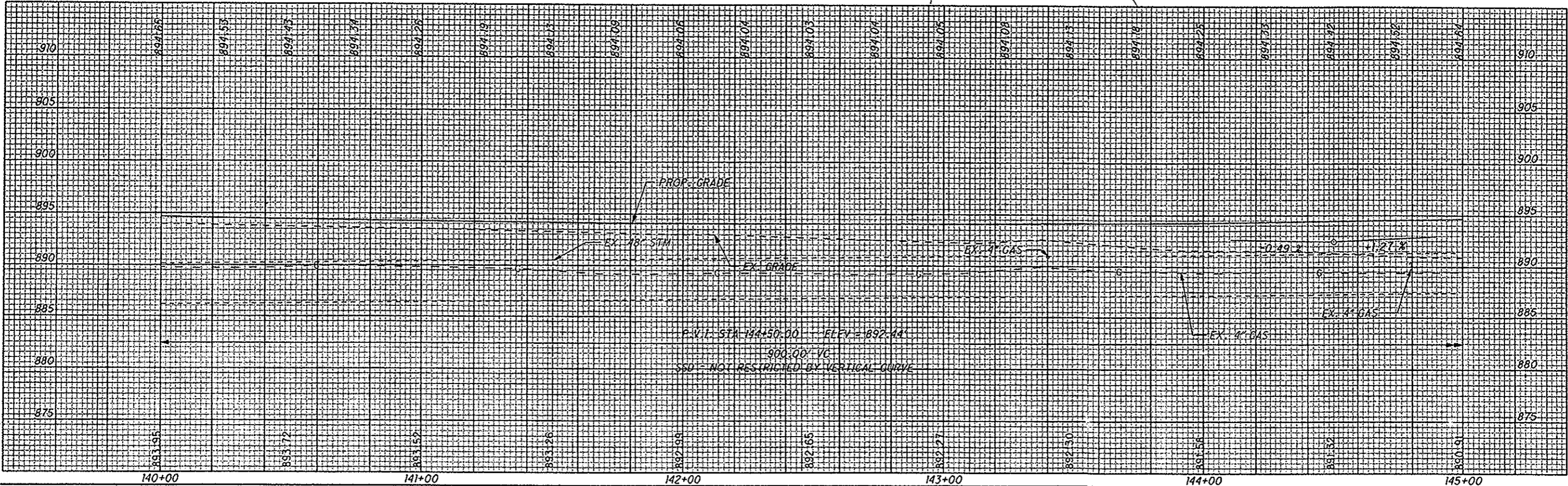


STATE OF OHIO
 D.B. 685, PG. 513
 4.430 AC.

JAMES A. MAGNUSON et al.
 200208050028489
 69.68 AC.

FOR CROSS SECTIONS SEE SHEETS 168 TO 172

FOR DRIVE PROFILES SEE SHEET 172



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

LIC-THORNWOOD

IP_PWP:dms0826B\78116CP029.dgn 02-SEP-2008 7:06AM jlove

LEGEND

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

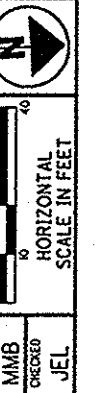
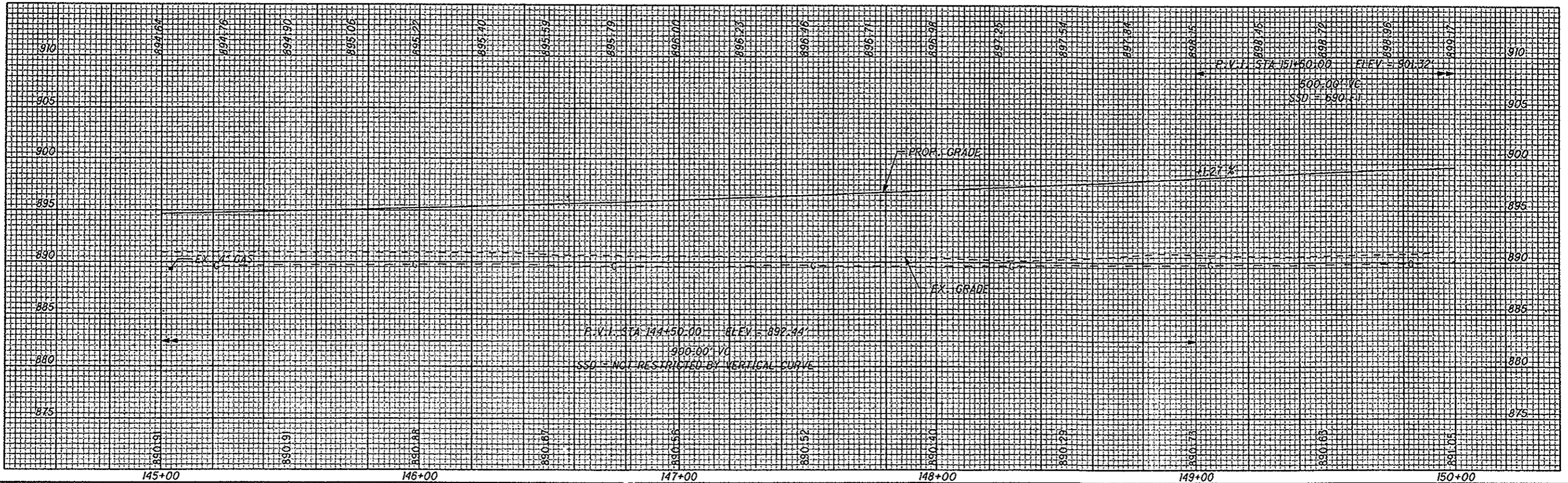
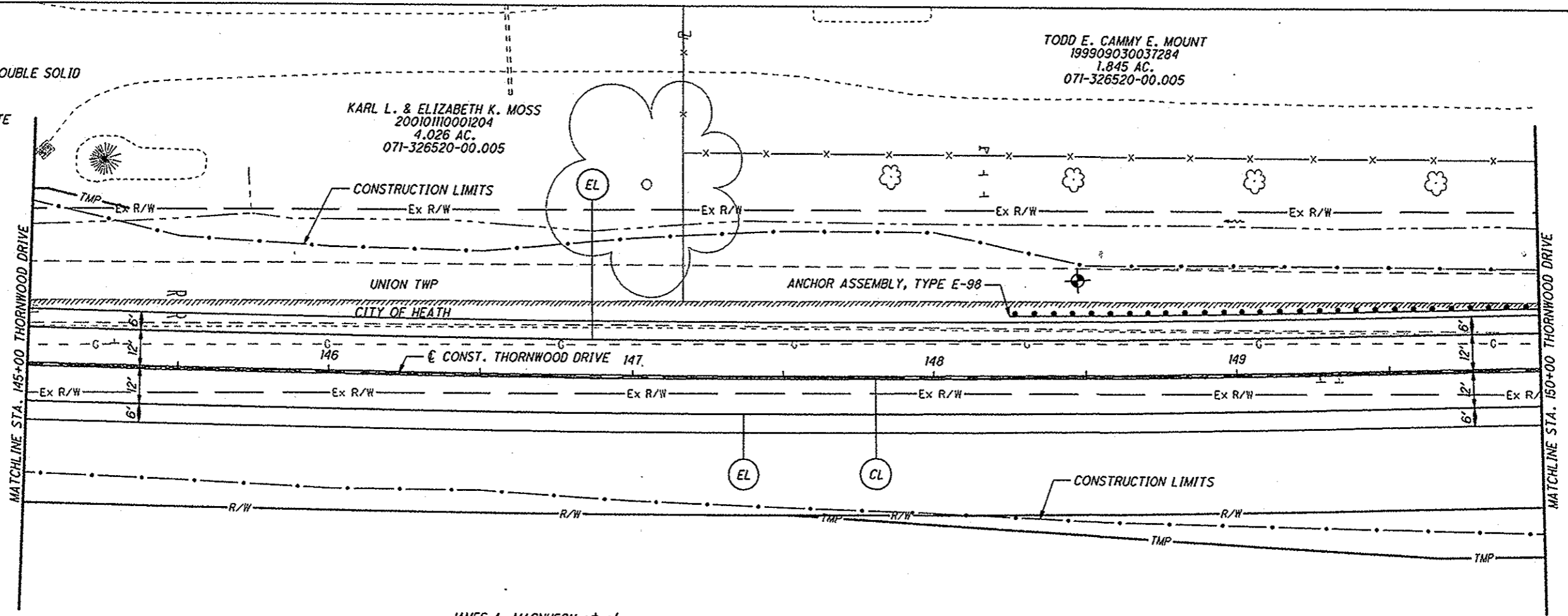
TODD E. CAMMY E. MOUNT
 199909030037284
 1.845 AC.
 071-326520-00.005

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

FOR CROSS SECTIONS SEE
 SHEETS 172 TO 175






CALCULATED MMB CHECKED JEL
PLAN AND PROFILE - THORNWOOD
STA. 145+00 TO STA. 150+00

LIC-THORNWOOD

IP_PWP.dms08268\78116GPO30.dgn 02-SEP-2009 7:07AM flove

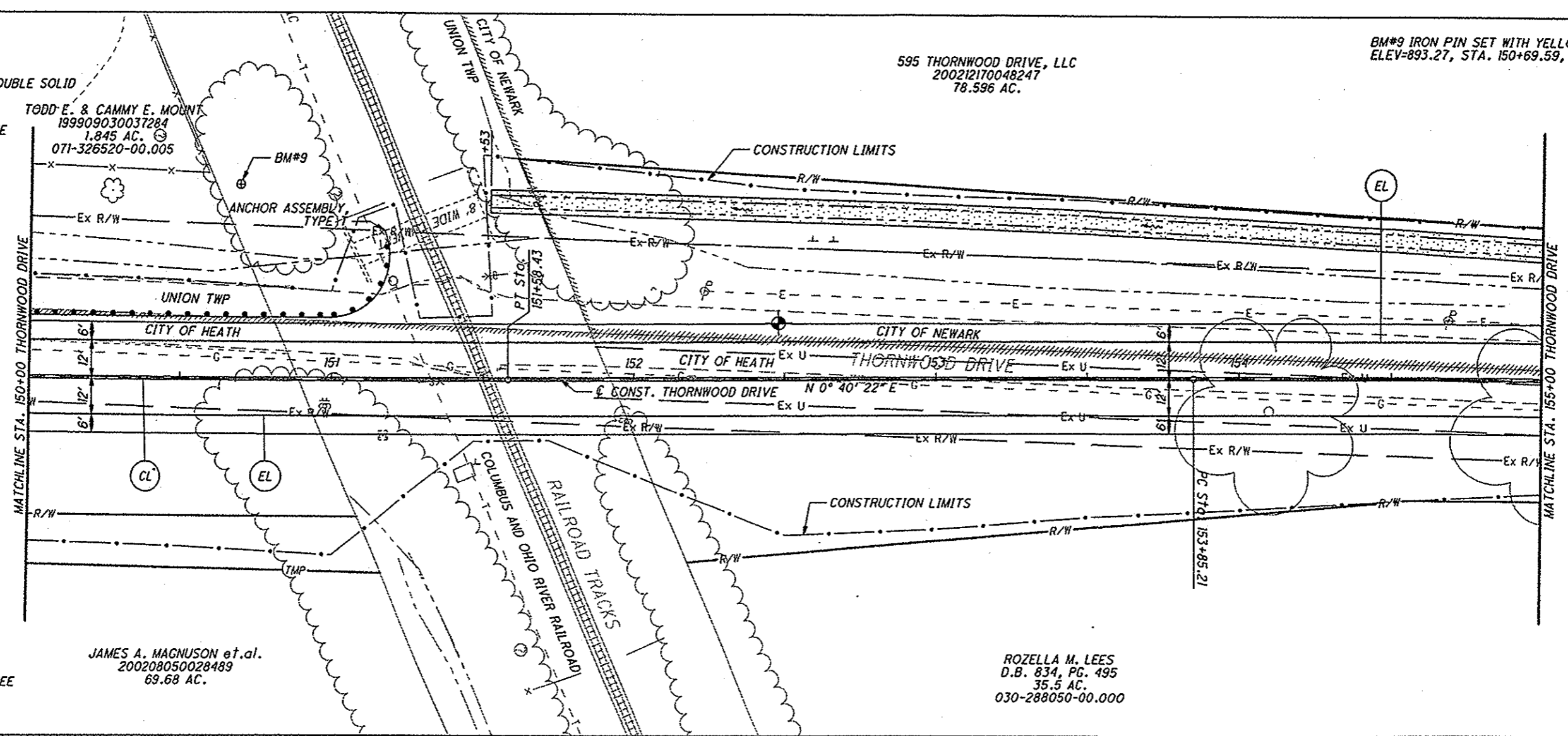
LEGEND

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

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.

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



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

JAMES A. MAGNUSON et al.
200208050028489
69.68 AC.

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

FOR CROSS SECTIONS SEE
SHEETS 175 TO 178






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

LIC-THORNWOOD

IP_PWP.dms08268\78116GP031.dgn 02-SEP-2009 7:07AM jlove

LEGEND

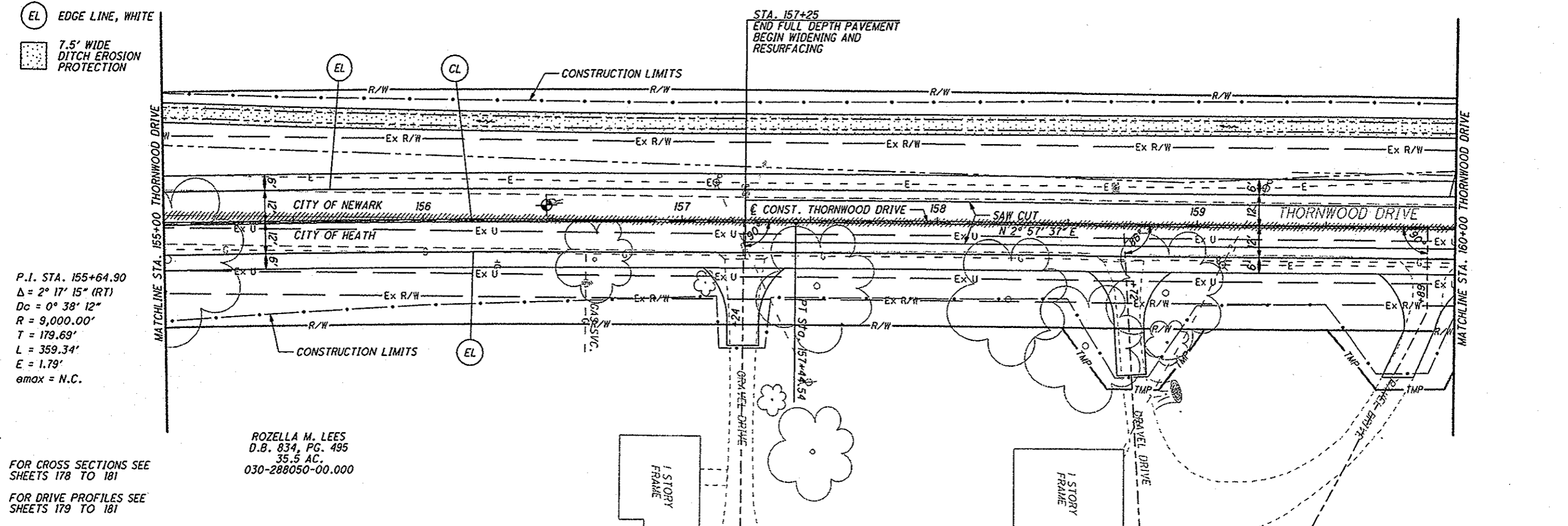
-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  7.5' WIDE DITCH EROSION PROTECTION

595 THORNWOOD DRIVE, LLC
200212170048247
78.596 AC.

N

20
0
10
HORIZONTAL
SCALE IN FEET

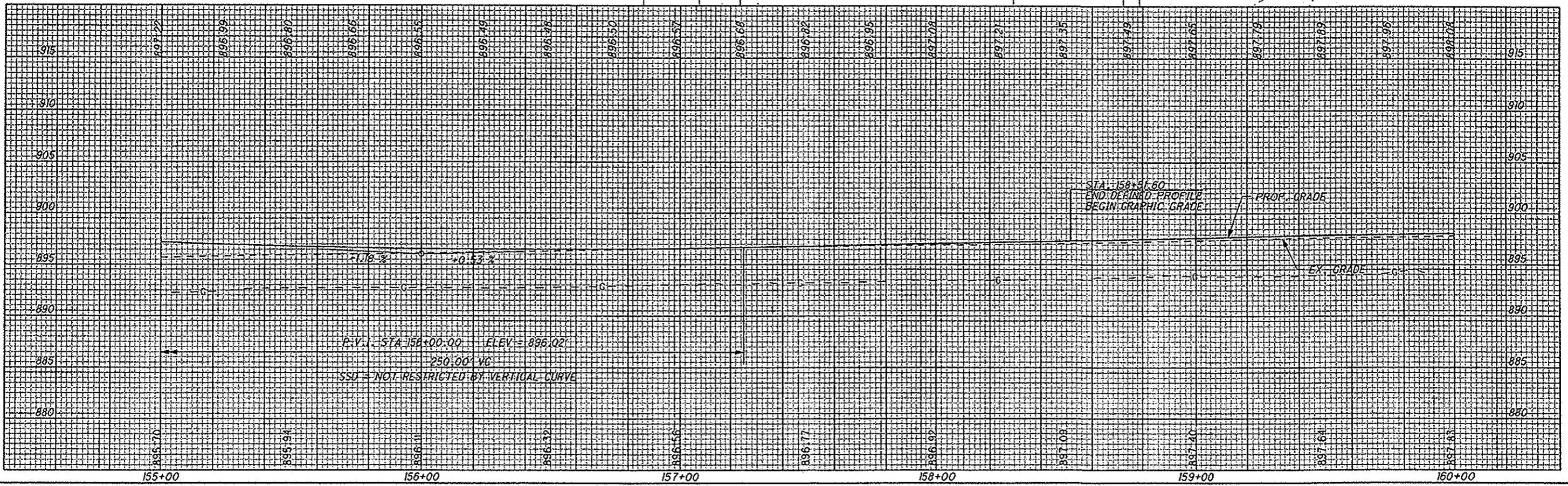
CALCULATED MMB
CHECKED JEL



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

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

FOR CROSS SECTIONS SEE SHEETS 178 TO 181
 FOR DRIVE PROFILES SEE SHEETS 179 TO 181







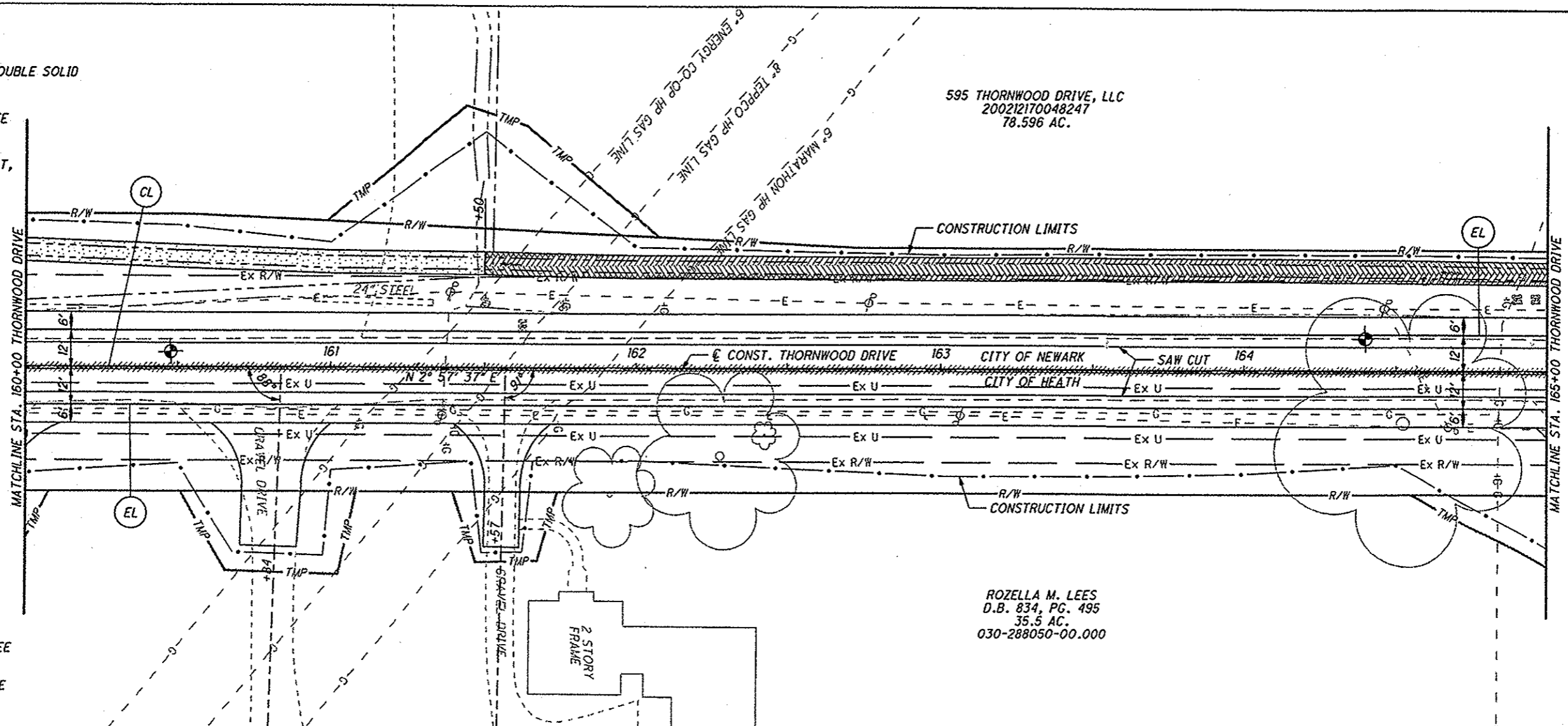
PLAN AND PROFILE - THORNWOOD
STA. 155+00 TO STA. 160+00

LIC-THORNWOOD

IP: P:\P\08266\781166P032.dgn 02-SEP-2009 7:07AM jrove

LEGEND

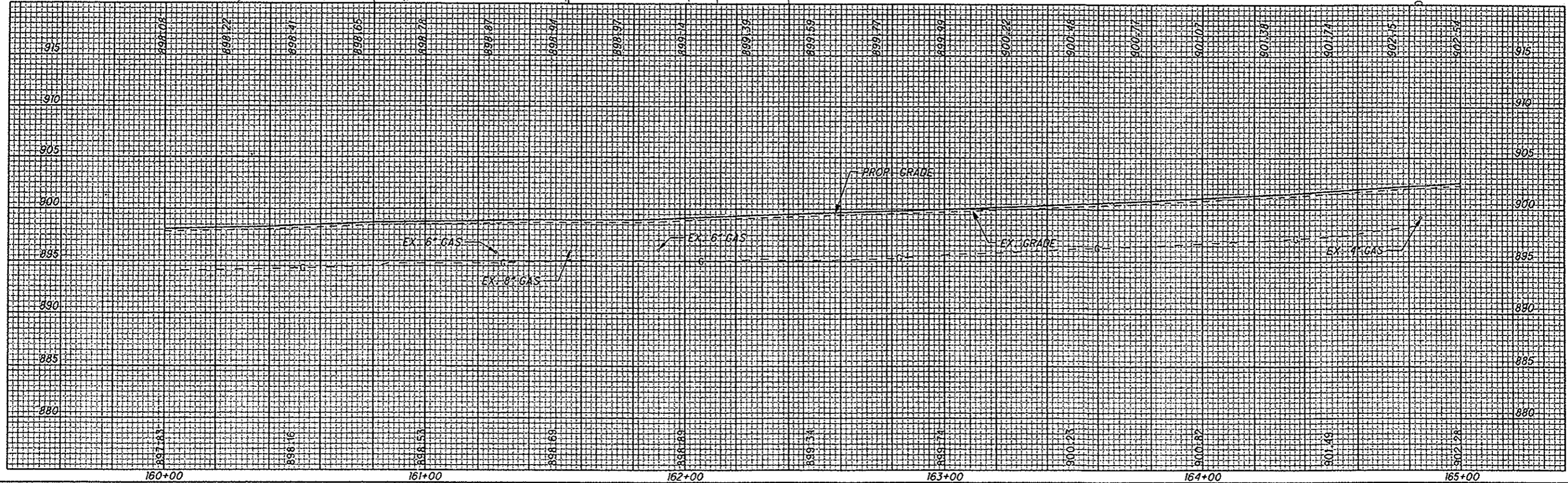
-  CL CENTER LINE, DOUBLE SOLID
-  EL EDGE LINE, WHITE
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  7.5' WIDE DITCH EROSION PROTECTION


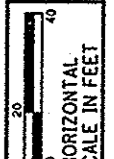


FOR CROSS SECTIONS SEE SHEETS 181 TO 185
 FOR DRIVE PROFILES SEE SHEETS 182 TO 183

595 THORNWOOD DRIVE, LLC
 200212170048247
 78.596 AC.

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











 HORIZONTAL SCALE IN FEET
 CALCULATED MMB CHECKED JEL

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

LIC-THORNWOOD

LEGEND

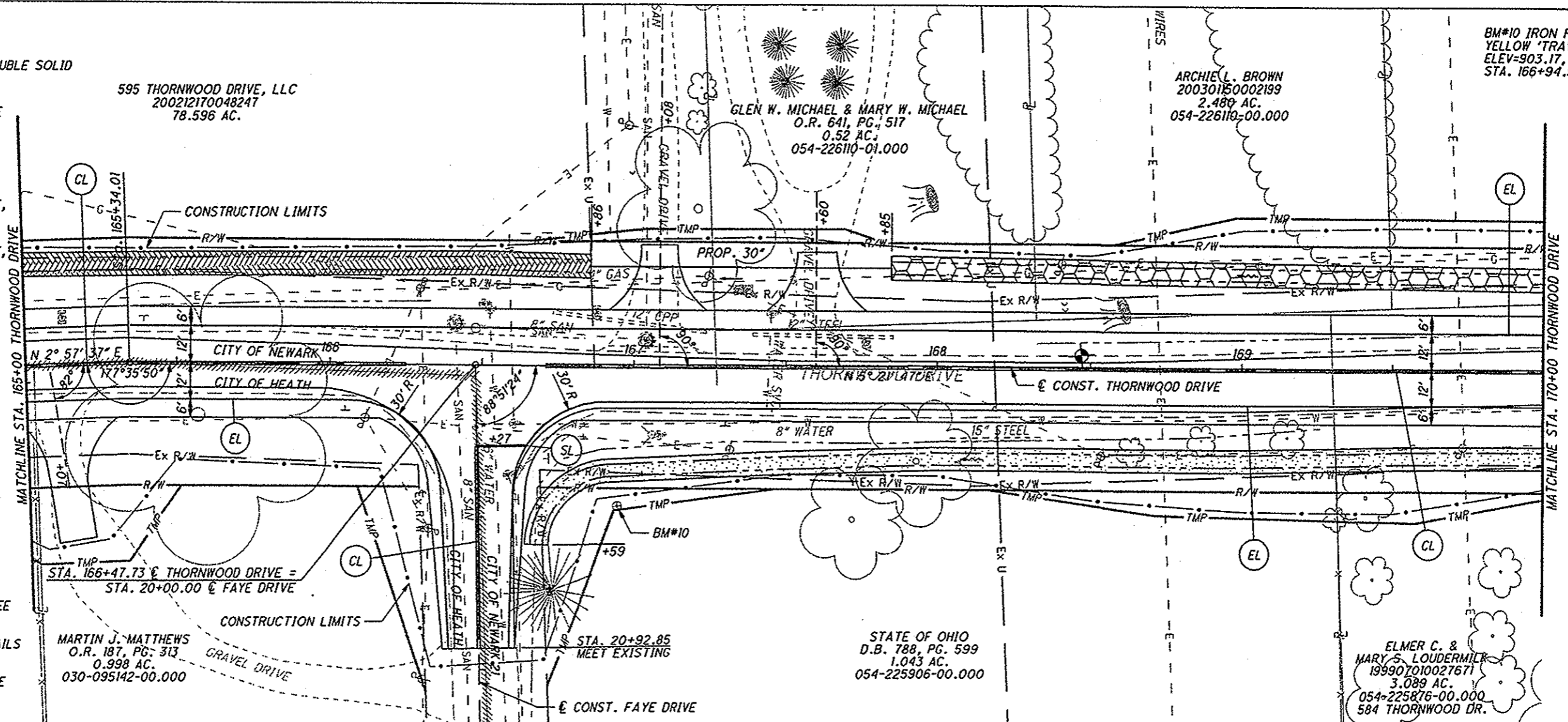
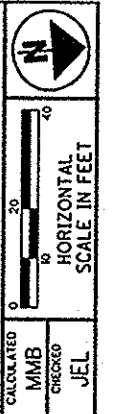
-  CENTER LINE, DOUBLE SOLID
-  EDGE LINE, WHITE
-  STOP LINE
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  7.5' WIDE TURF REINFORCING MAT, TYPE 2
-  7.5' WIDE DITCH EROSION PROTECTION

595 THORNWOOD DRIVE, LLC
200212170048247
78.596 AC.

GLEN W. MICHAEL & MARY W. MICHAEL
O.R. 641, PG. 517
0.52 AC.
054-226110-01.000

ARCHIE L. BROWN
200301150002199
2.489 AC.
054-226110-00.000

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

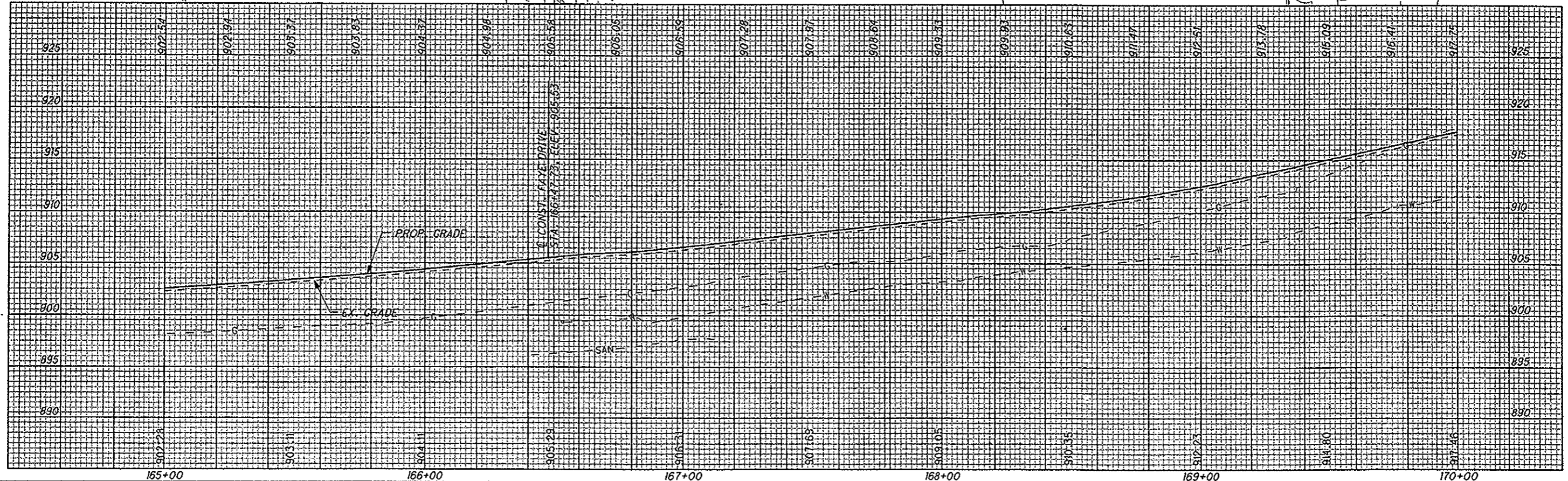


FOR CROSS SECTIONS SEE SHEETS 185 TO 189
FOR INTERSECTION DETAILS SEE SHEET 262
FOR DRIVE PROFILES SEE SHEETS 185 AND 187

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

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.



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

LIC-THORNWOOD

IP_PWP:dms08288\78116GP034.dgn 02-SEP-2009 7:07AM plove

LEGEND

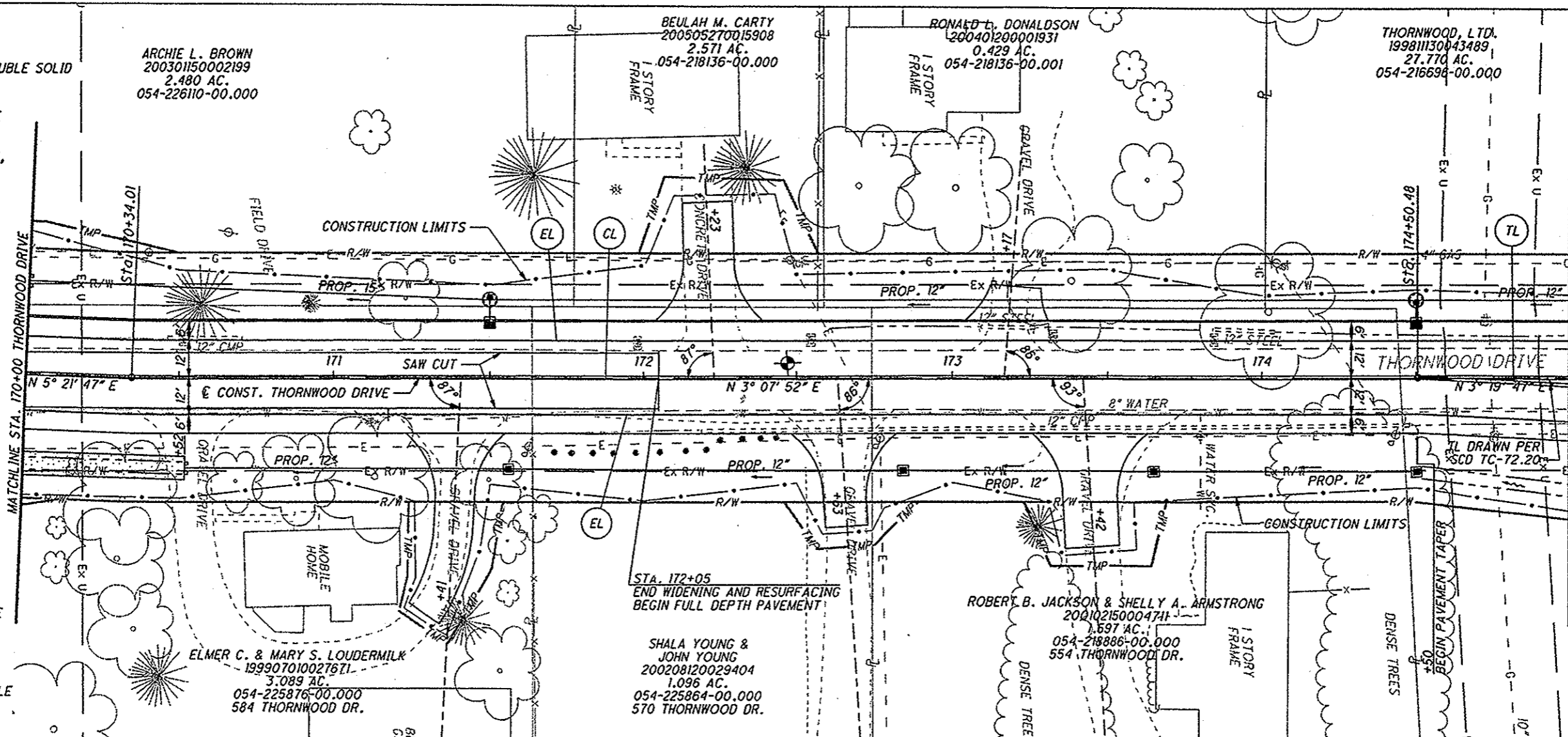
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- TL TRANSVERSE LINE, YELLOW
- 7.5' WIDE DITCH EROSION PROTECTION

ARCHIE L. BROWN
200301150002199
2.480 AC.
054-226110-00.000

BEULAH M. CARTY
200505270015908
2.571 AC.
054-218136-00.000

RONALD L. DONALDSON
200401200001931
0.429 AC.
054-218136-00.001

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



FOR CROSS SECTIONS SEE SHEETS 189 TO 194

FOR DRIVE PROFILES SEE SHEETS 190 TO 193

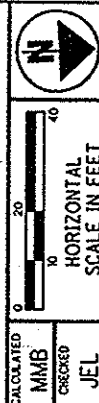
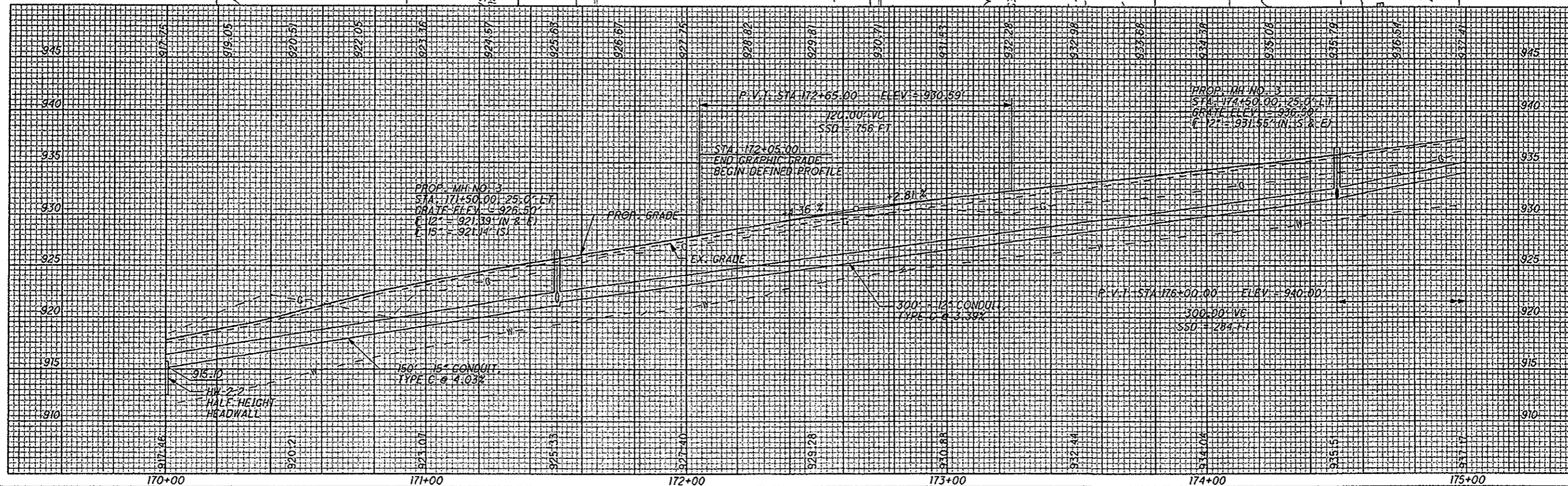
FOR STORM SEWER PROFILE SEE SHEET 270

STA. 172+05
END WIDENING AND RESURFACING
BEGIN FULL DEPTH PAVEMENT

SHALA YOUNG &
JOHN YOUNG
200208120029404
1.096 AC.
054-225864-00.000
570 THORNWOOD DR.

ROBERT B. JACKSON & SHELLY A. ARMSTRONG
200102150004711
1.697 AC.
054-218886-00.000
554 THORNWOOD DR.



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



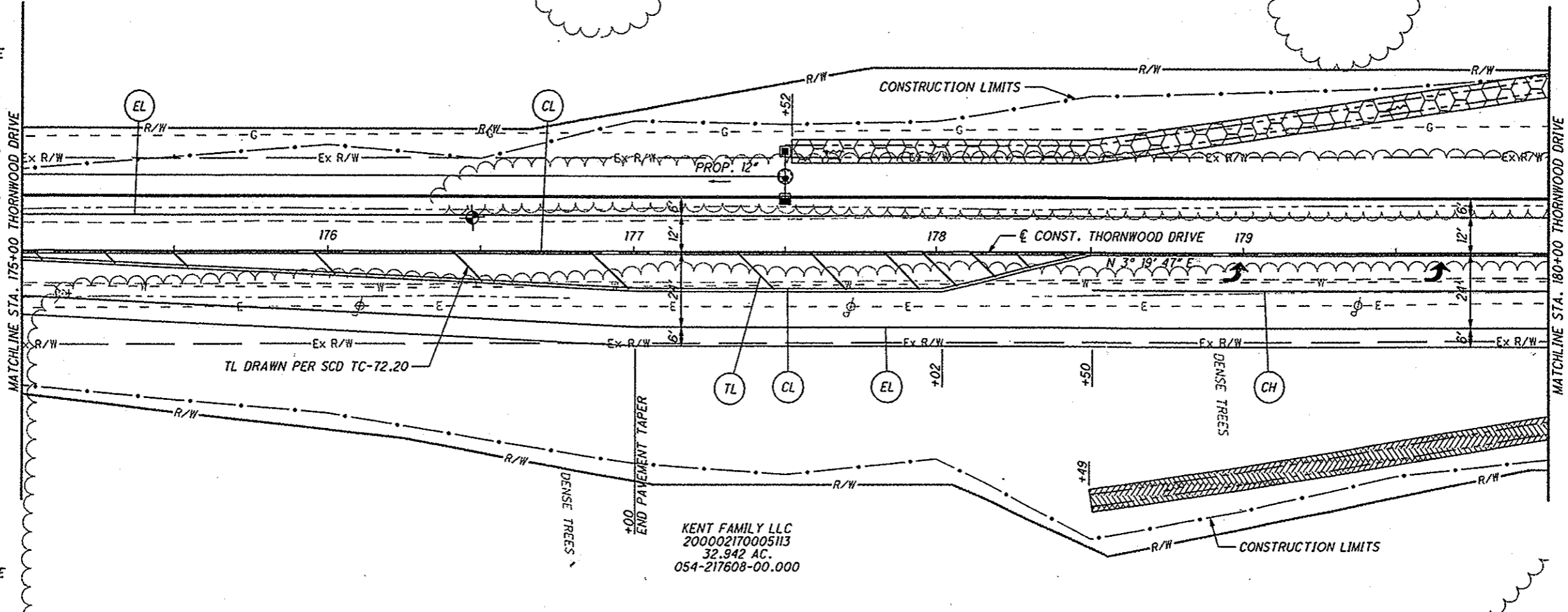
CALCULATED MMB CHECKED JEL
PLAN AND PROFILE - THORNWOOD
STA. 170+00 TO STA. 175+00

LIC-THORNWOOD

LEGEND

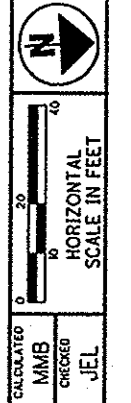
- (CL) CENTER LINE, DOUBLE SOLID
- (EL) EDGE LINE, WHITE
- (CL) CHANNELIZING LINE
- (TL) TRANSVERSE LINE, YELLOW
-  7.5' WIDE TURF REINFORCING MAT, TYPE 1
-  7.5' WIDE TURF REINFORCING MAT, TYPE 2

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



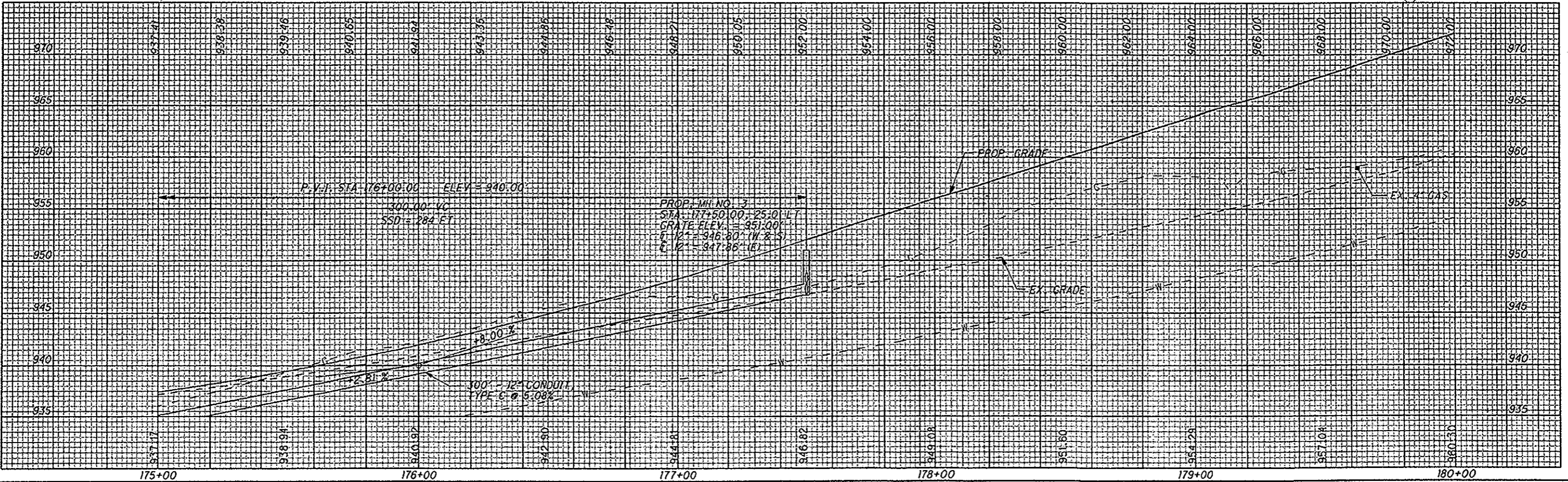
FOR CROSS SECTIONS SEE SHEETS 194 TO 198

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










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

LIC-THORNWOOD



I:\PWF\dms08268\78116GF036.dgn 02-SEP-2009 7:08AM jlove

LEGEND

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

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

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

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

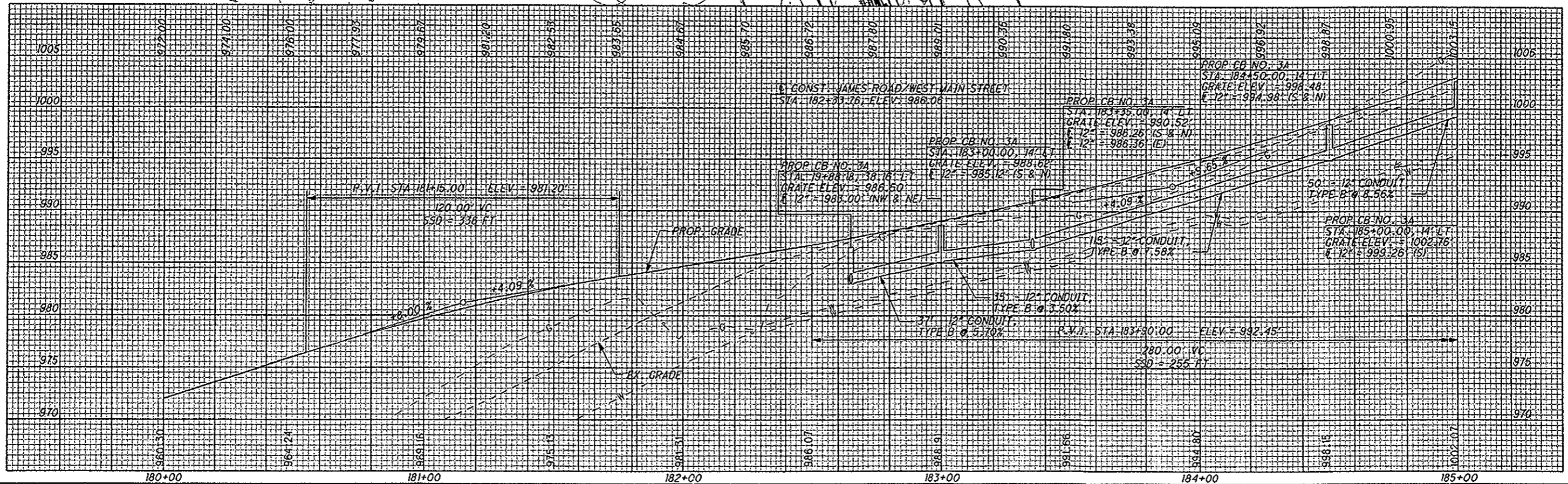
CYNTHIA S. MCCrackEN
D.B. 831, PG. 121
14.18 AC.
054-216654-00.000

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

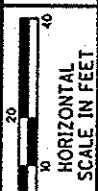
FOR CROSS SECTIONS SEE
SHEETS 198 TO 202

FOR INTERSECTION DETAILS
SEE SHEET 261

FOR DRIVE PROFILES SEE
SHEETS 200 TO 201







HORIZONTAL SCALE IN FEET

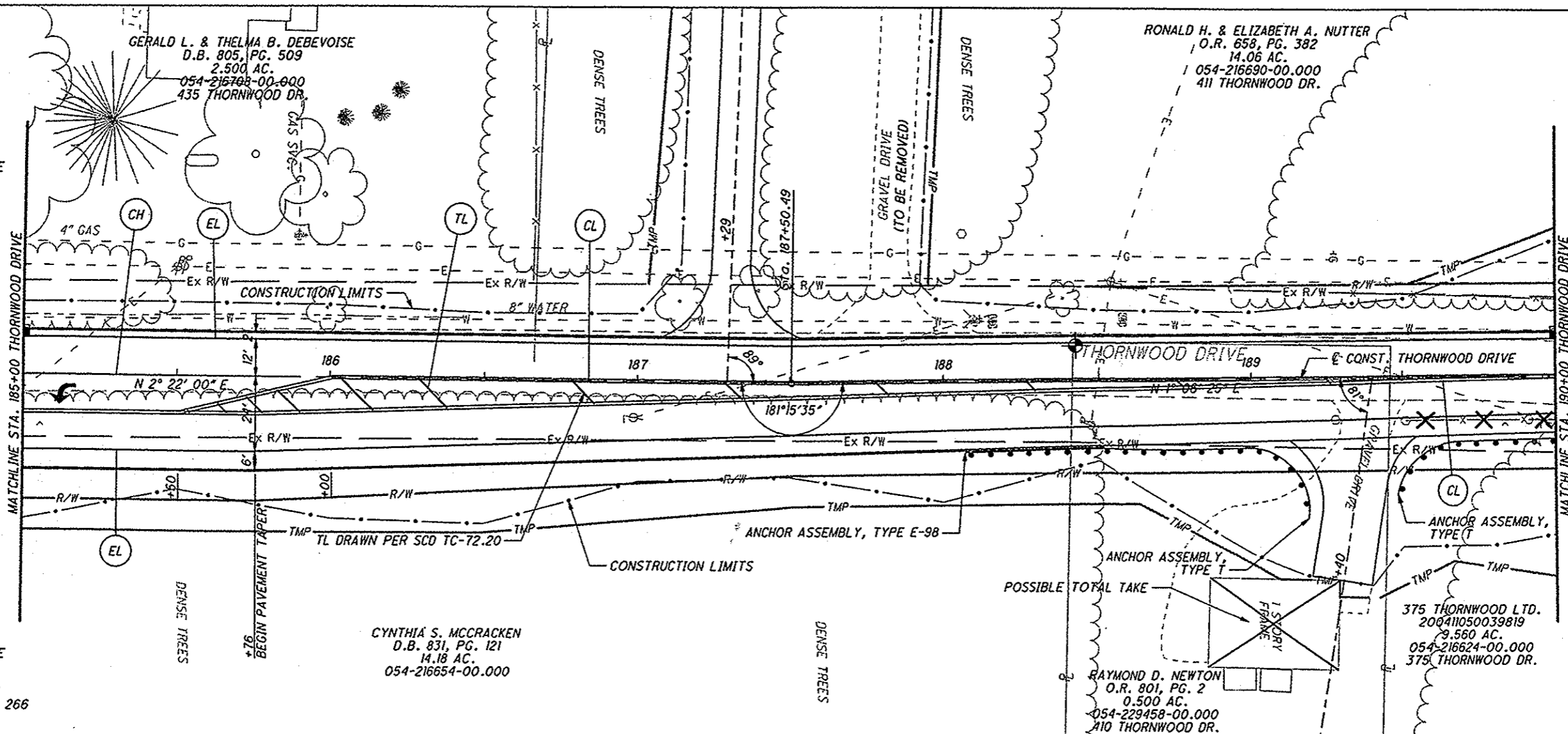
| | | | |
|------------|-----|---------|-----|
| CALCULATED | MMB | CHECKED | JEL |
|------------|-----|---------|-----|

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

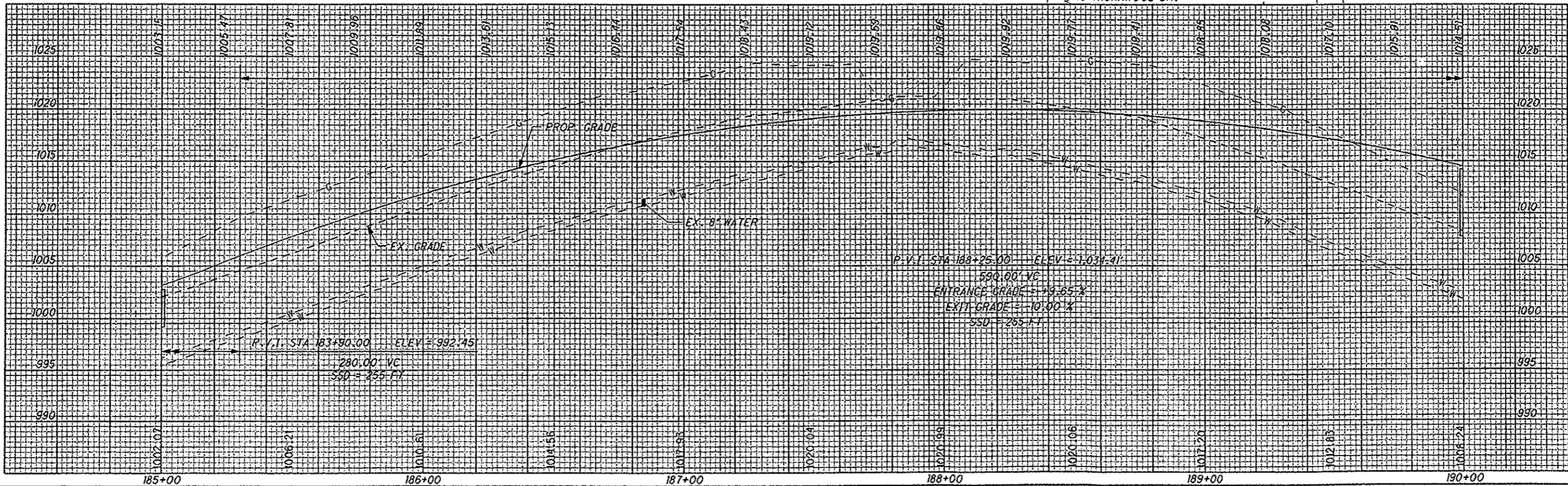
50
 285

LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- CH CHANNELIZING LINE
- TL TRANSVERSE LINE, YELLOW



FOR CROSS SECTIONS SEE SHEETS 202 TO 207
 FOR DRIVE PROFILES SEE SHEETS 205 TO 206 AND 266



HORIZONTAL SCALE IN FEET

CALCULATED: MMB
 CHECKED: JEL

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

LIC-THORNWOOD

51
285

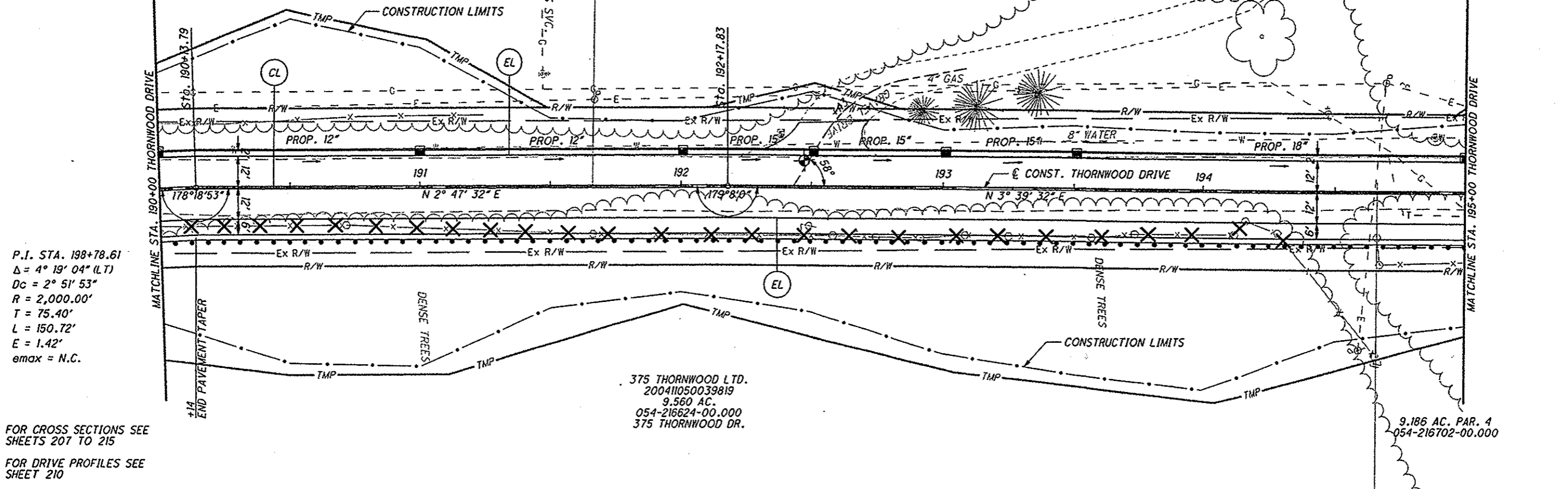
LEGEND

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

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.

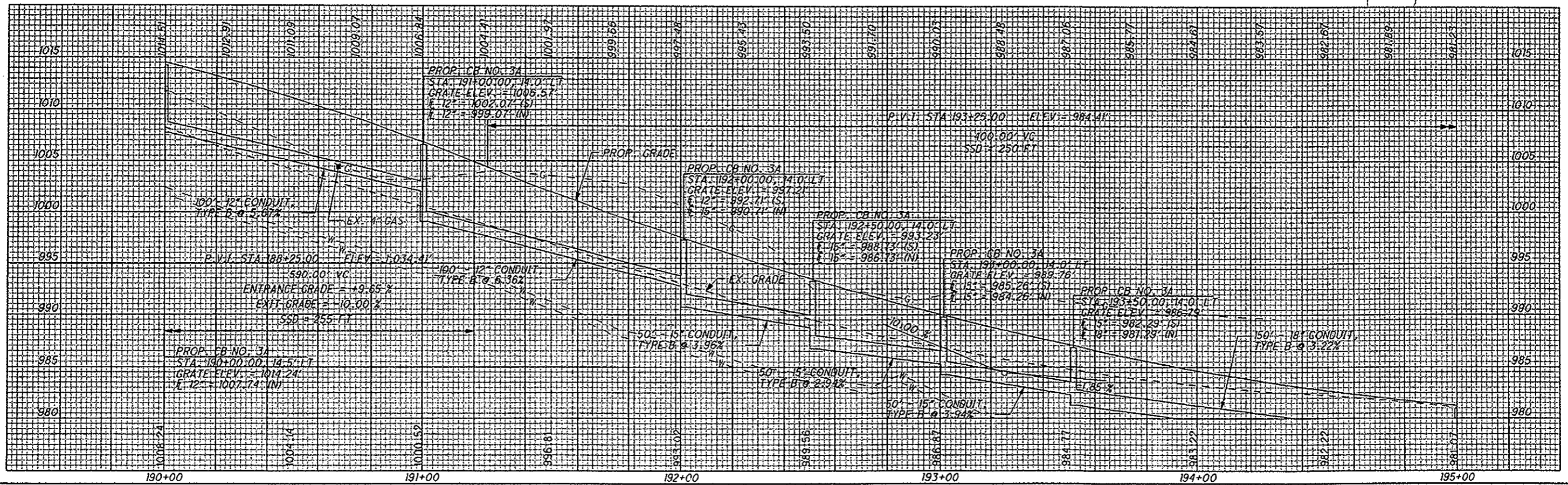


P.I. STA. 198+78.61
 $\Delta = 4^\circ 19' 04''$ (LT)
 $D_c = 2^\circ 51' 53''$
 $R = 2,000.00'$
 $T = 75.40'$
 $L = 150.72'$
 $E = 1.42'$
 $e_{max} = N.C.$

FOR CROSS SECTIONS SEE SHEETS 207 TO 215
FOR DRIVE PROFILES SEE SHEET 210

375 THORNWOOD LTD.
200411050039819
9.560 AC.
054-216624-00.000
375 THORNWOOD DR.

9.186 AC. PAR. 4
054-216702-00.000



PLAN AND PROFILE - THORNWOOD

STA. 190+00 TO STA. 195+00

LIC-THORNWOOD

52
285


CALCULATED: MMB
CHECKED: JEL

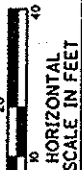
HORIZONTAL SCALE: 1" = 40'

P:\PWP\dms08268\78116GP039.dgn 02-SEP-2009 7:08AM jlove

LEGEND

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

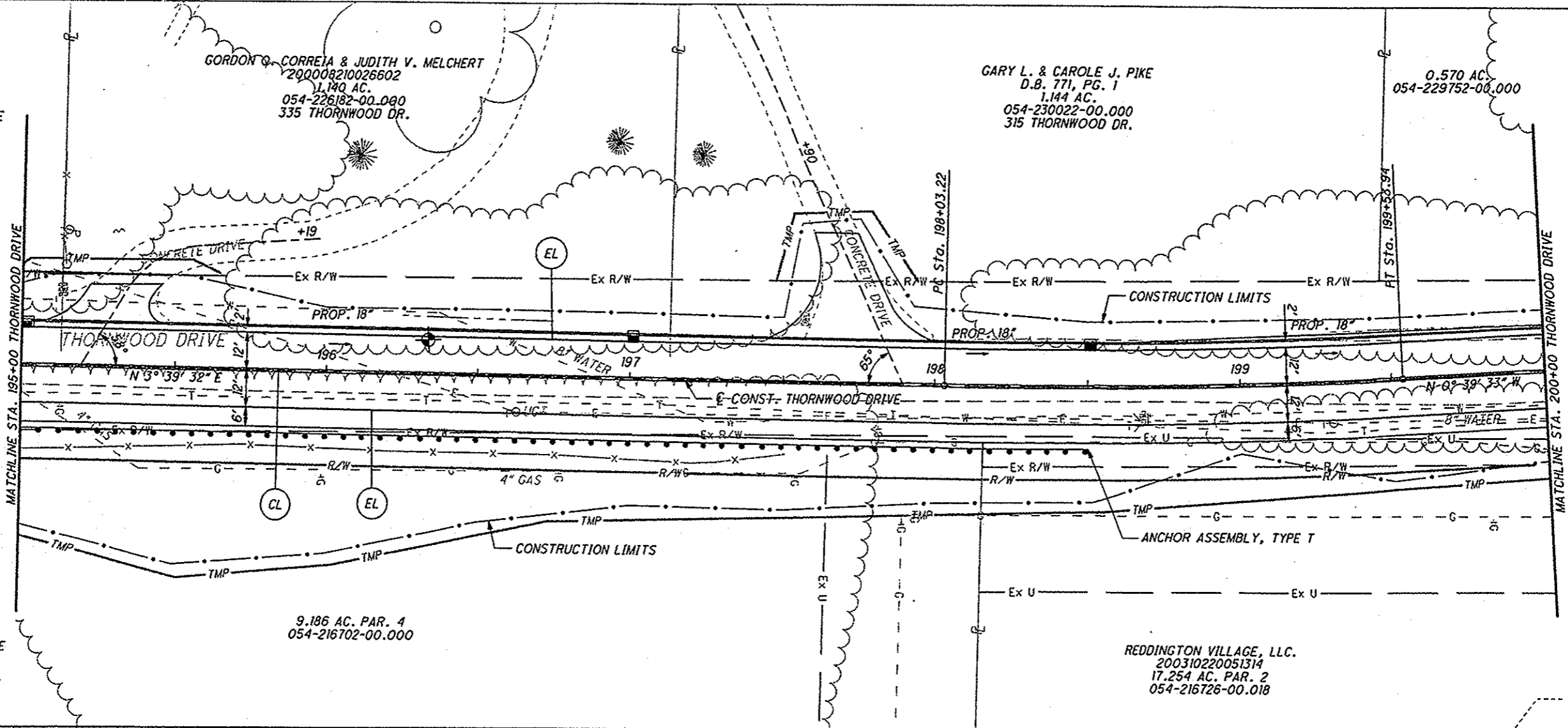




 HORIZONTAL SCALE IN FEET

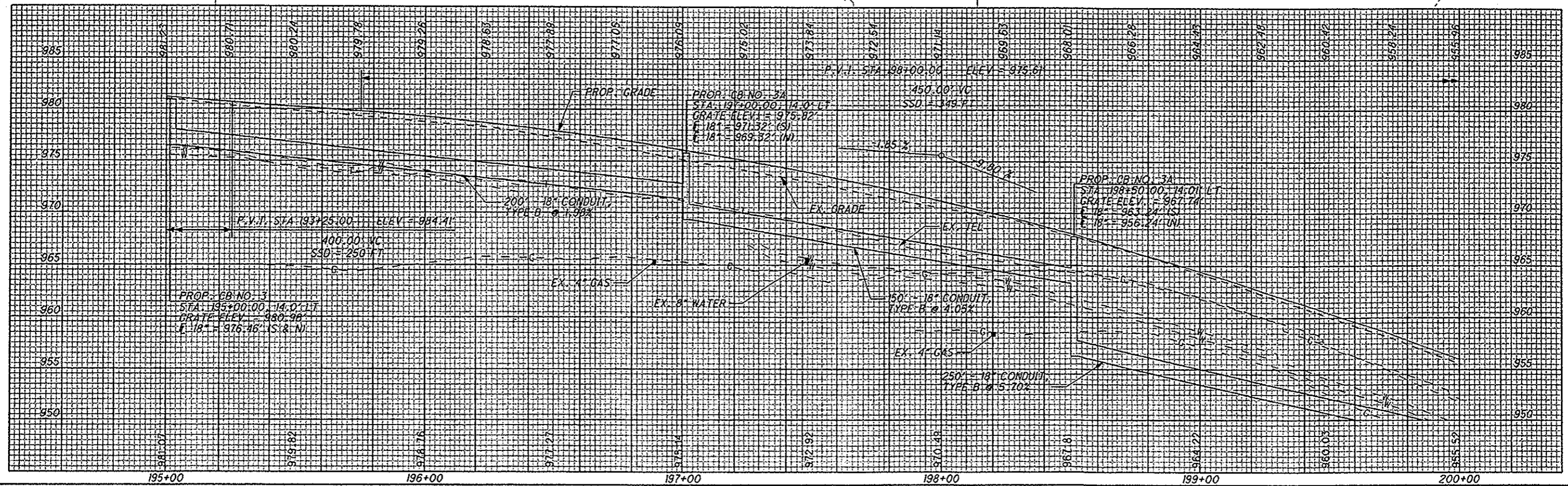
PLAN AND PROFILE - THORNWOOD
STA. 195+00 TO STA. 200+00

LIC-THORNWOOD



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

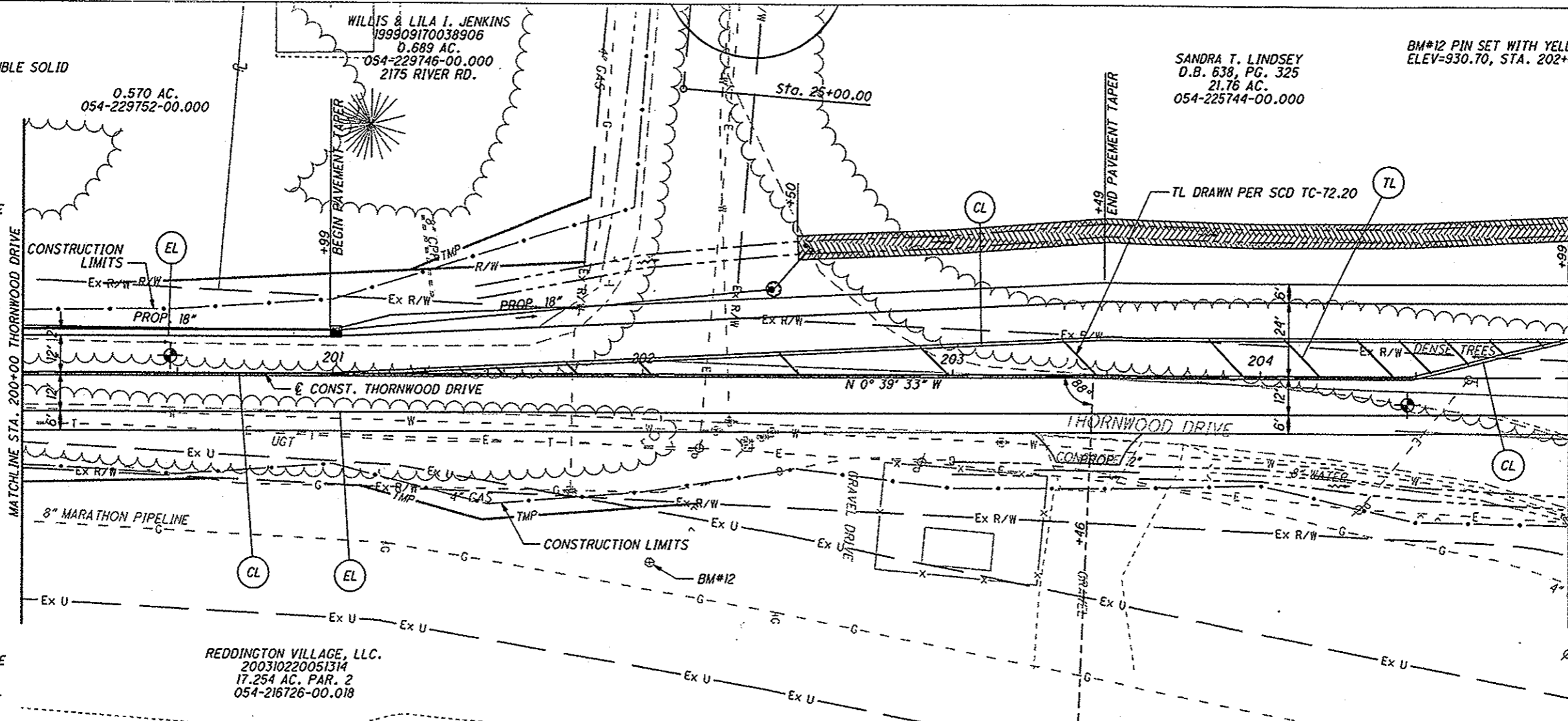
FOR CROSS SECTIONS SEE SHEETS 215 TO 222
 FOR DRIVE PROFILES SEE SHEETS 215 AND 219



IP_PWP.dms08268\781166P04.dgn 02-SEP-2009 7:09AM jlove

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 I

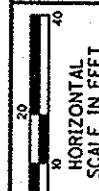
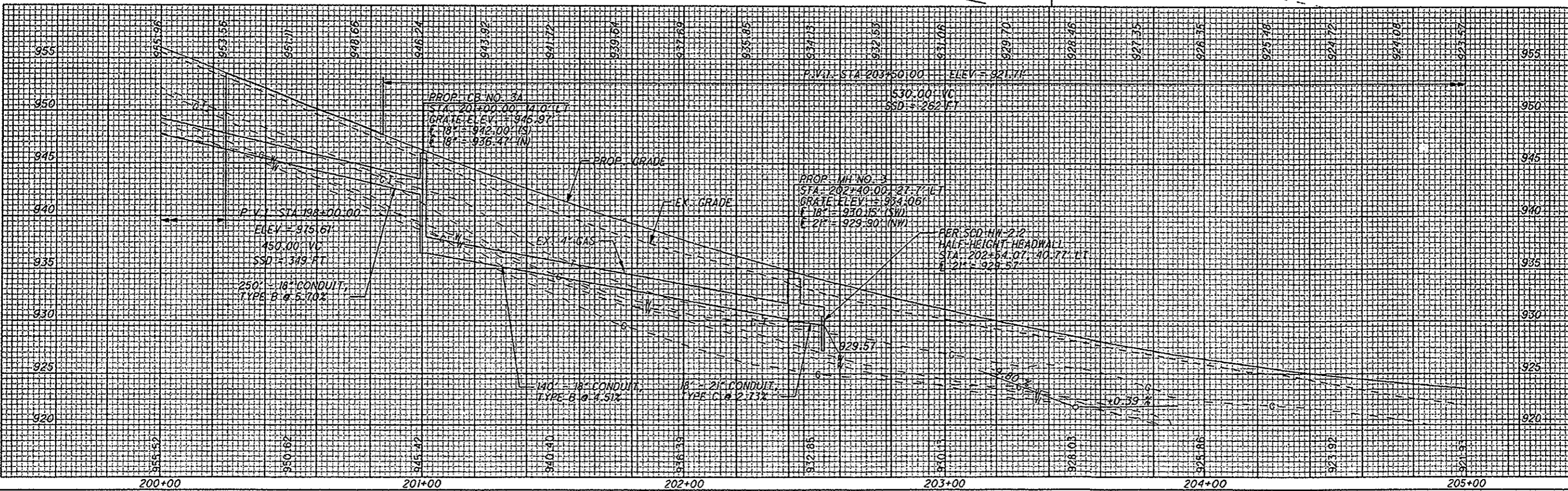


SANDRA T. LINDSEY
D.B. 638, PG. 325
21.76 AC.
054-225744-00.000

BM#12 PIN SET WITH YELLOW 'TRAV' CAP
ELEV=930.70, STA. 202+02.49, 59.92' RT

FOR CROSS SECTIONS SEE SHEETS 222 TO 225
FOR DRIVE PROFILES SEE SHEET 224

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

LIC-THORNWOOD

IP_PWP.dms08268\78116CP041.dgn 02-SEP-2009 7:09AM jrbve

LEGEND

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


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

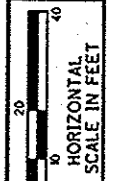
DAVID M. FLINN
200208090029208
1.488 AC. PAR. 1
054-1232908-00.000

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

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

FOR CROSS SECTIONS SEE SHEETS 225 TO 226
FOR INTERSECTION DETAILS SEE SHEET 263

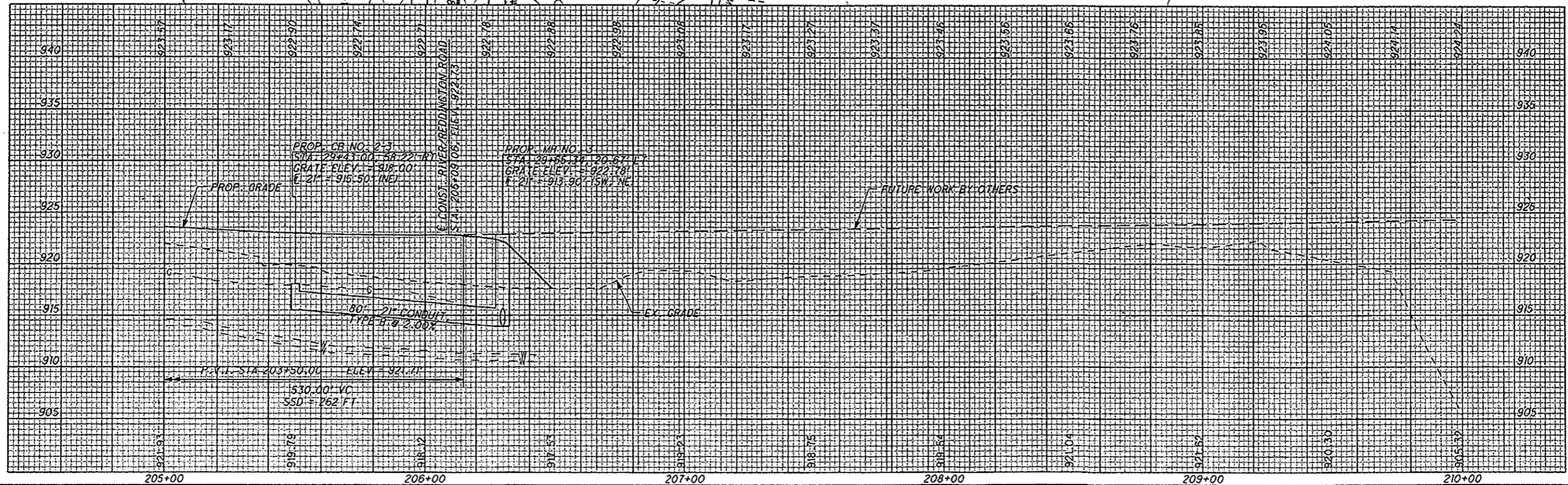




 HORIZONTAL SCALE IN FEET

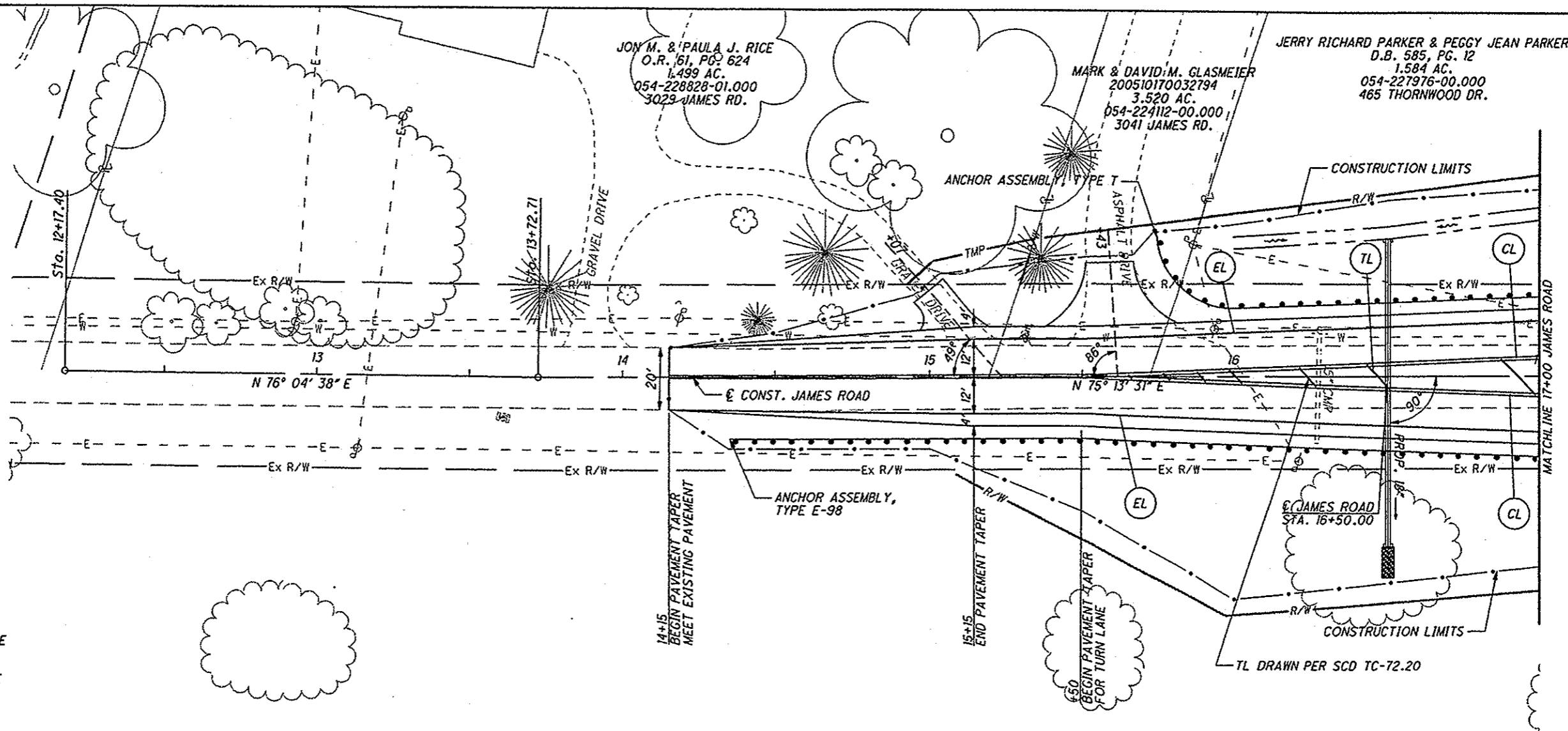
PLAN AND PROFILE - THORNWOOD
STA. 205+00 TO STA. 210+00

LIC-THORNWOOD

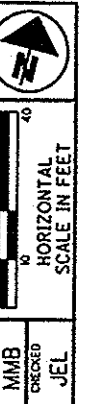
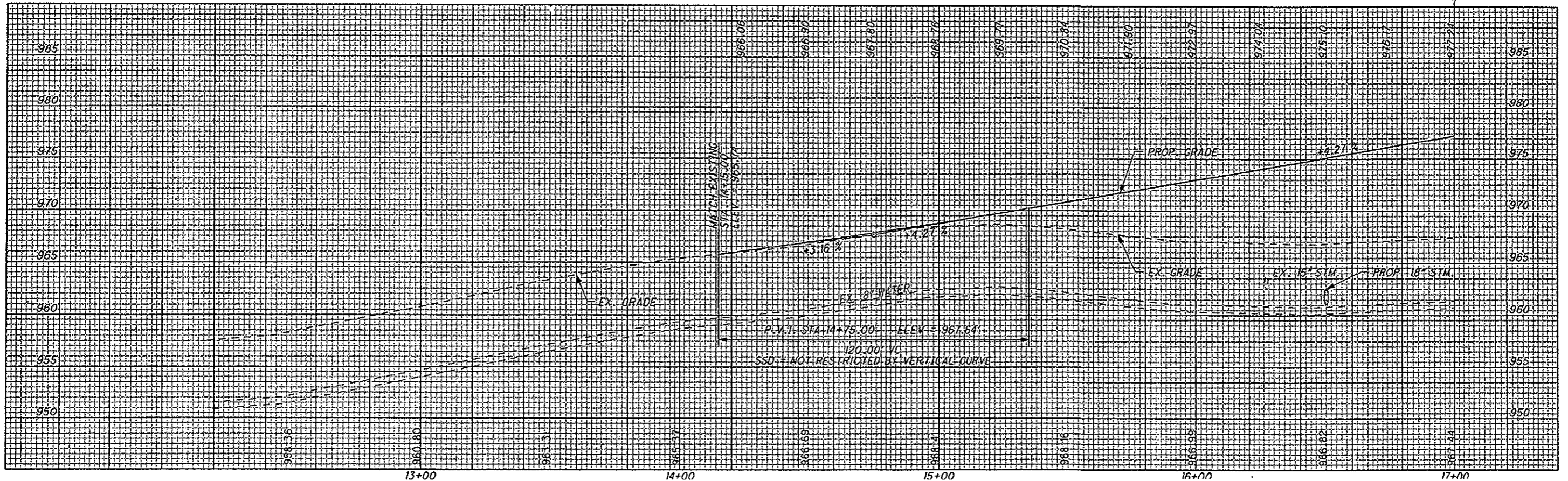


LEGEND

- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- TL TRANSVERSE LINE, YELLOW



FOR CROSS SECTIONS SEE SHEETS 227 TO 229
 FOR DRIVE PROFILES SEE SHEET 228



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

LIC-THORNWOOD

P:\WP\dms08268\78116GP201.dgn 02-SEP-2009 7:09AM jlove

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
- 7.5' WIDE TURF REINFORCING MAT, TYPE 2

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 229 TO 233

FOR INTERSECTION DETAILS SEE SHEET 261

FOR DRIVE PROFILES SEE SHEET 232

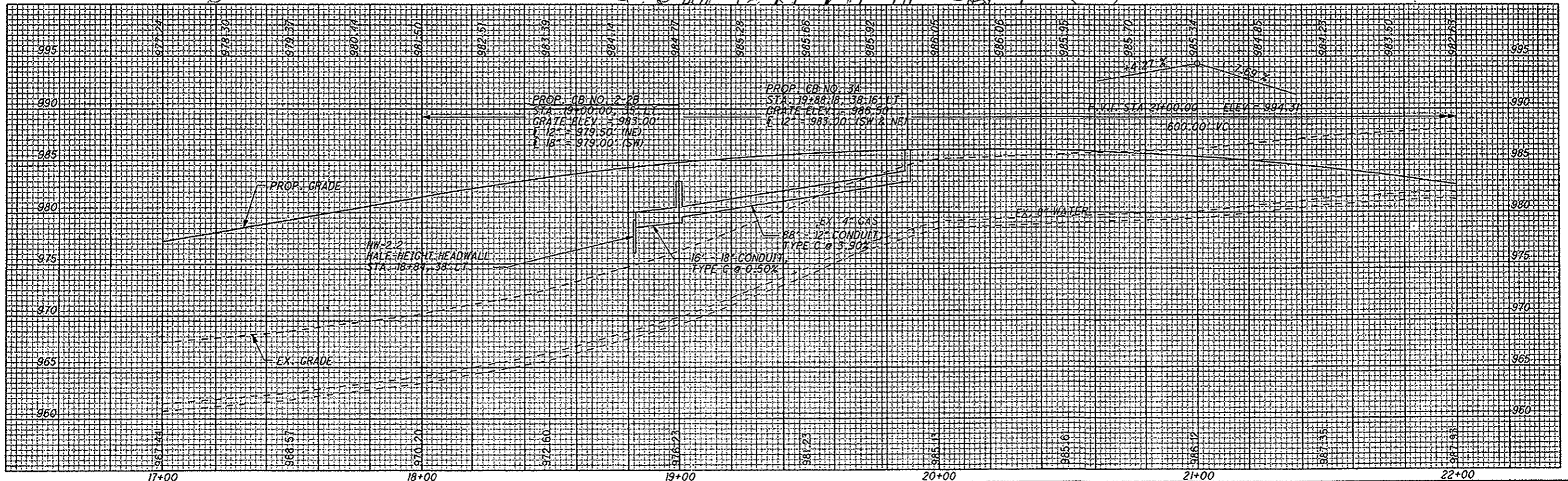
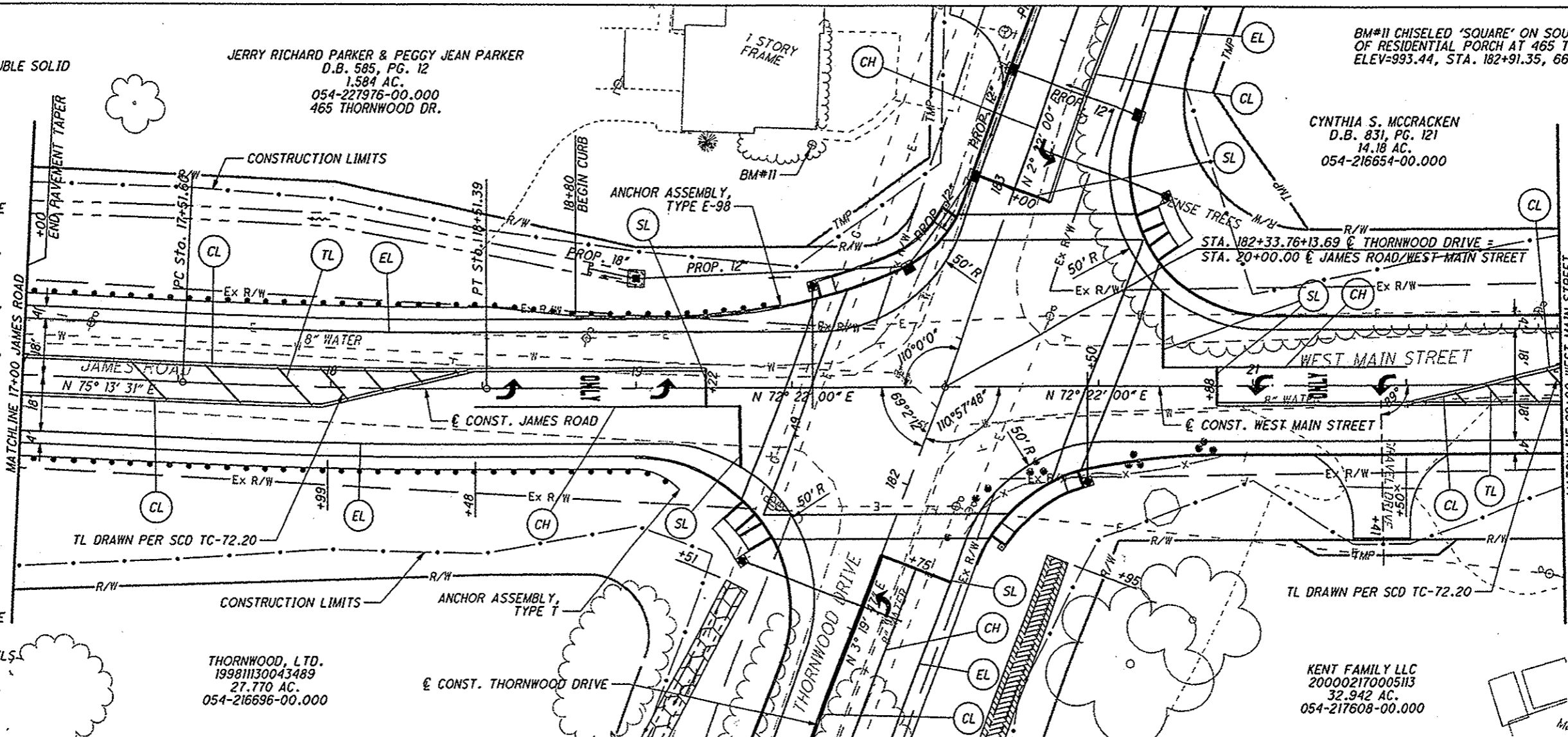
JERRY RICHARD PARKER & PEGGY JEAN PARKER
 D.B. 585, PG. 12
 1.584 AC.
 054-227976-00.000
 465 THORNWOOD DR.

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

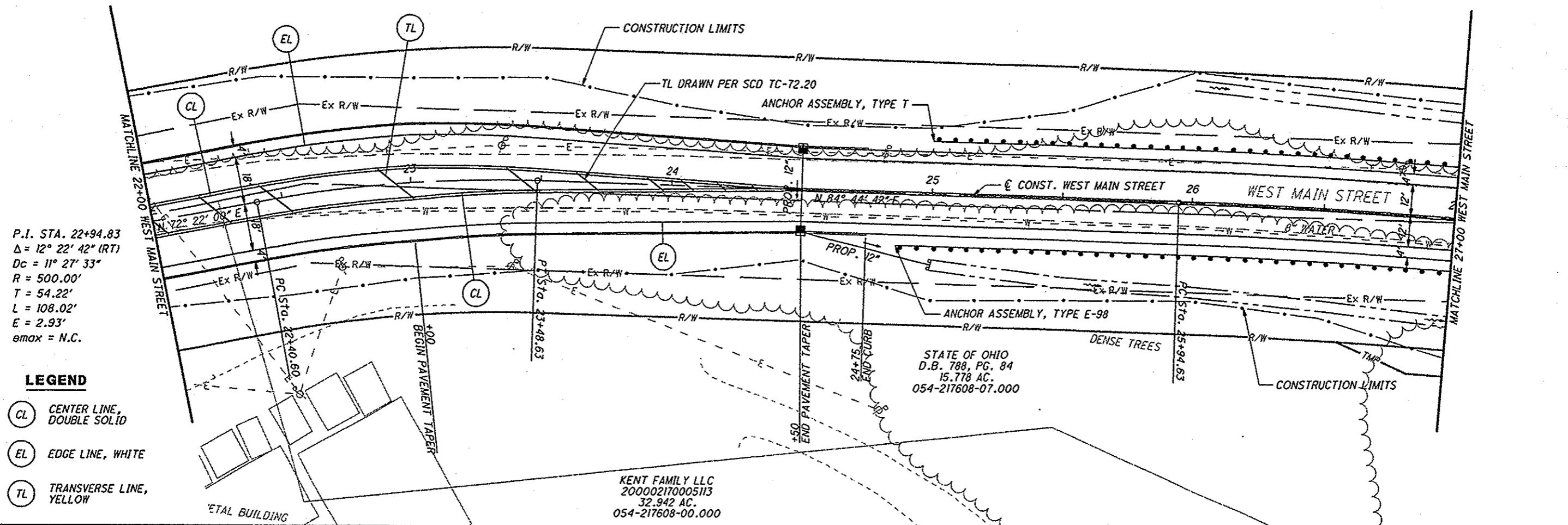
BM#11 CHISELED 'SQUARE' ON SOUTHEAST CORNER OF RESIDENTIAL PORCH AT 465 THORNWOOD DRIVE ELEV=993.44, STA. 182+91.35, 66.70' LT



PLAN AND PROFILE - JAMES/WEST MAIN
 STA. 17+00 TO STA. 22+00
 LIC-THORNWOOD
 57
 285

FOR CROSS SECTIONS SEE
SHEETS 233 TO 238

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



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

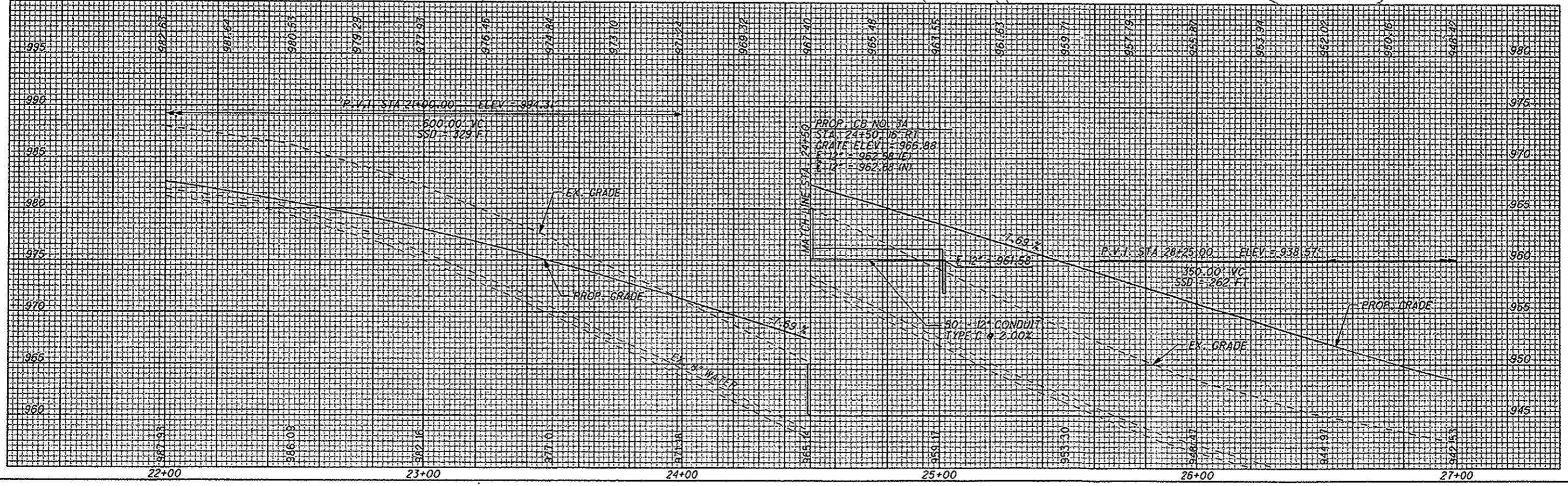
- CENTER LINE, DOUBLE SOLID
- EDGE LINE, WHITE
- TRANSVERSE LINE, YELLOW

CALCULATED
MMB
CHECKED
JEL

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

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

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



IP_PWP-dms08268\78116GP203.dgn 02-SEP-2009 10:07AM jrove

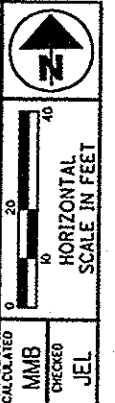
LIC-THORNWOOD

LEGEND

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

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

DENSE TREES



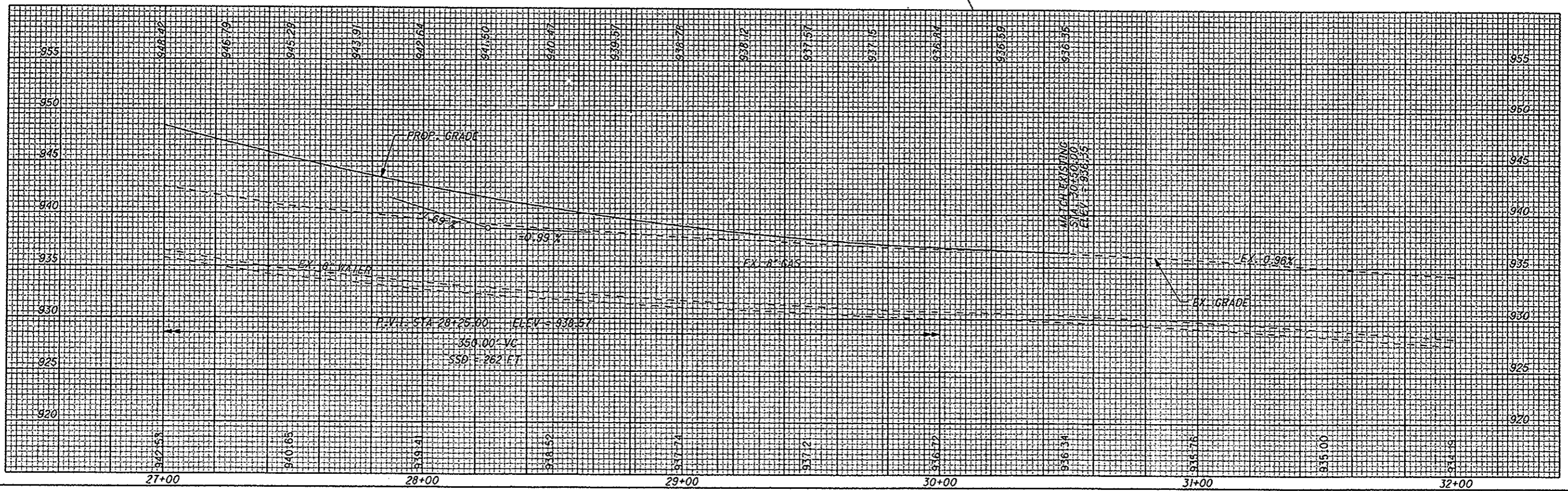
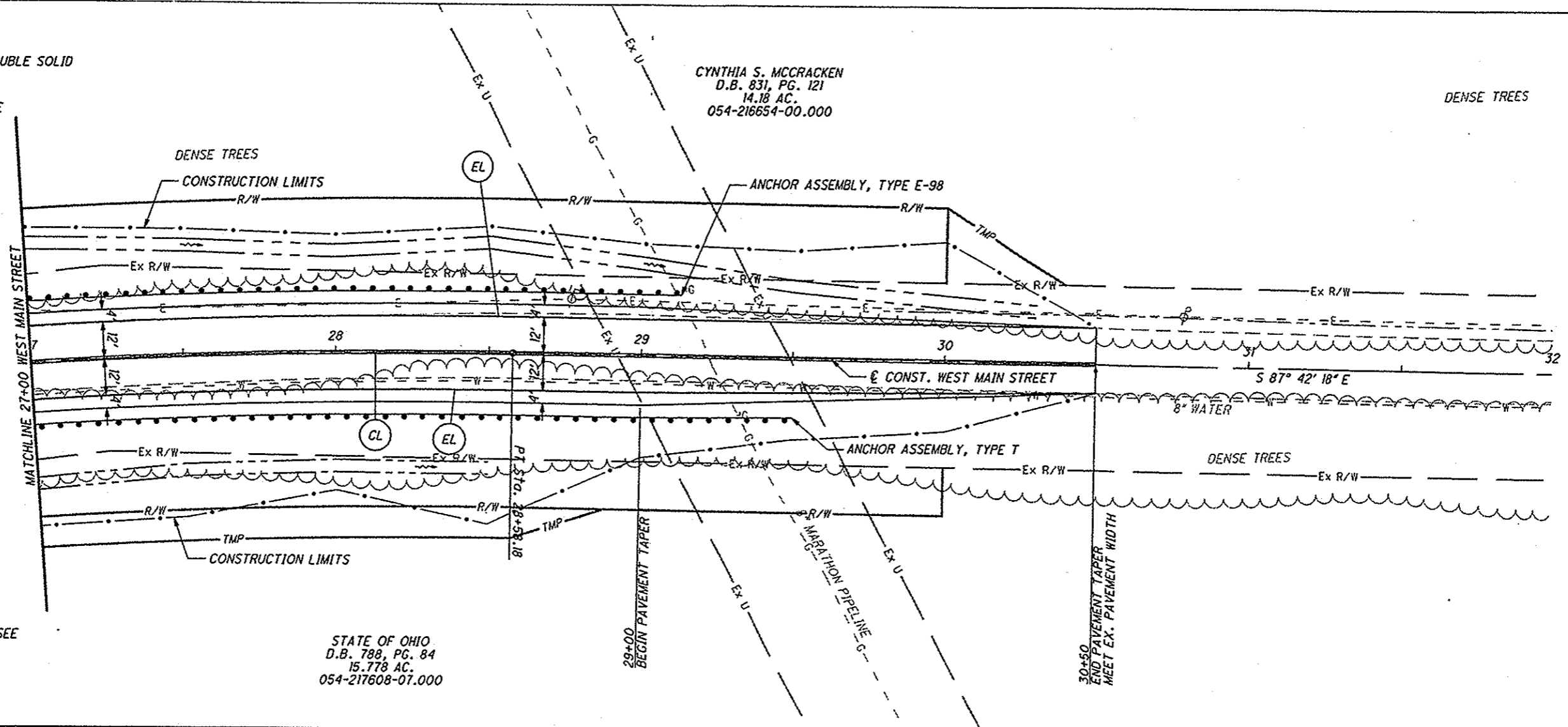
CALCULATED MMB CHECKED JEL
PLAN AND PROFILE - JAMES / WEST MAIN
STA. 27+00 TO STA. 32+00

LIC-THORNWOOD

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

FOR CROSS SECTIONS SEE SHEETS 238 TO 241

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



IP_P:\P:\dms08268\78116GP204.dgn 02-SEP-2009 7:10AM jlove

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 YINA 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 242 TO 246

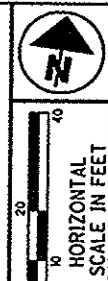
FOR INTERSECTION DETAILS
SEE SHEET 262

FOR DRIVE PROFILES SEE
SHEETS 242 AND 244

FOR DRAINAGE DETAILS
SEE SHEET 283

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

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

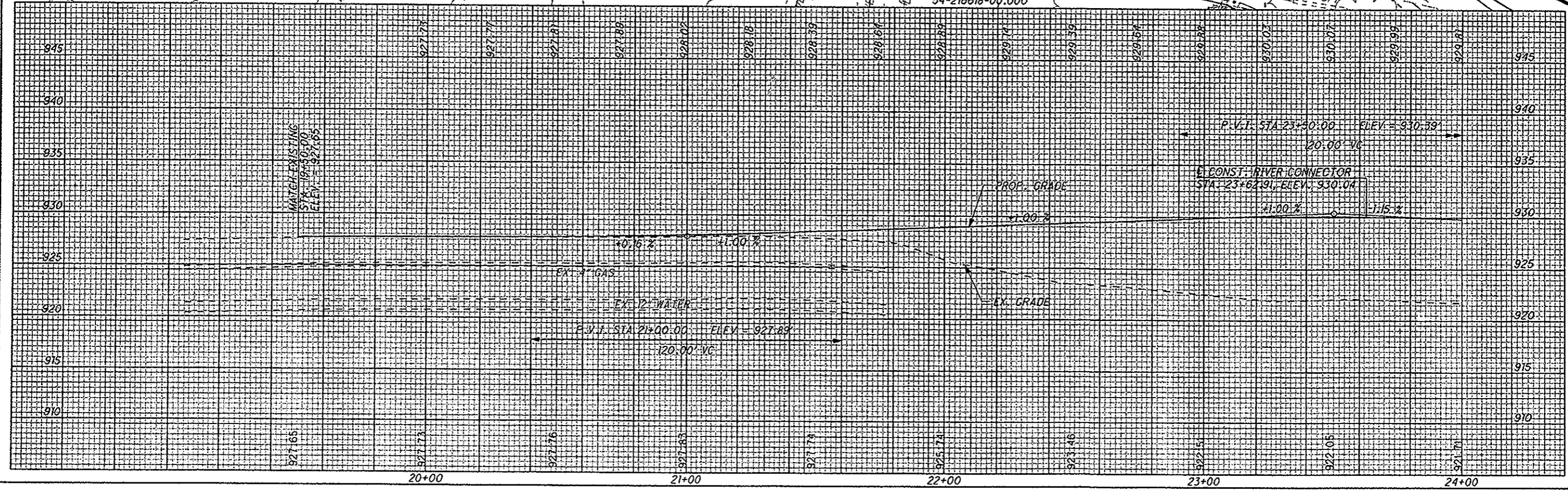
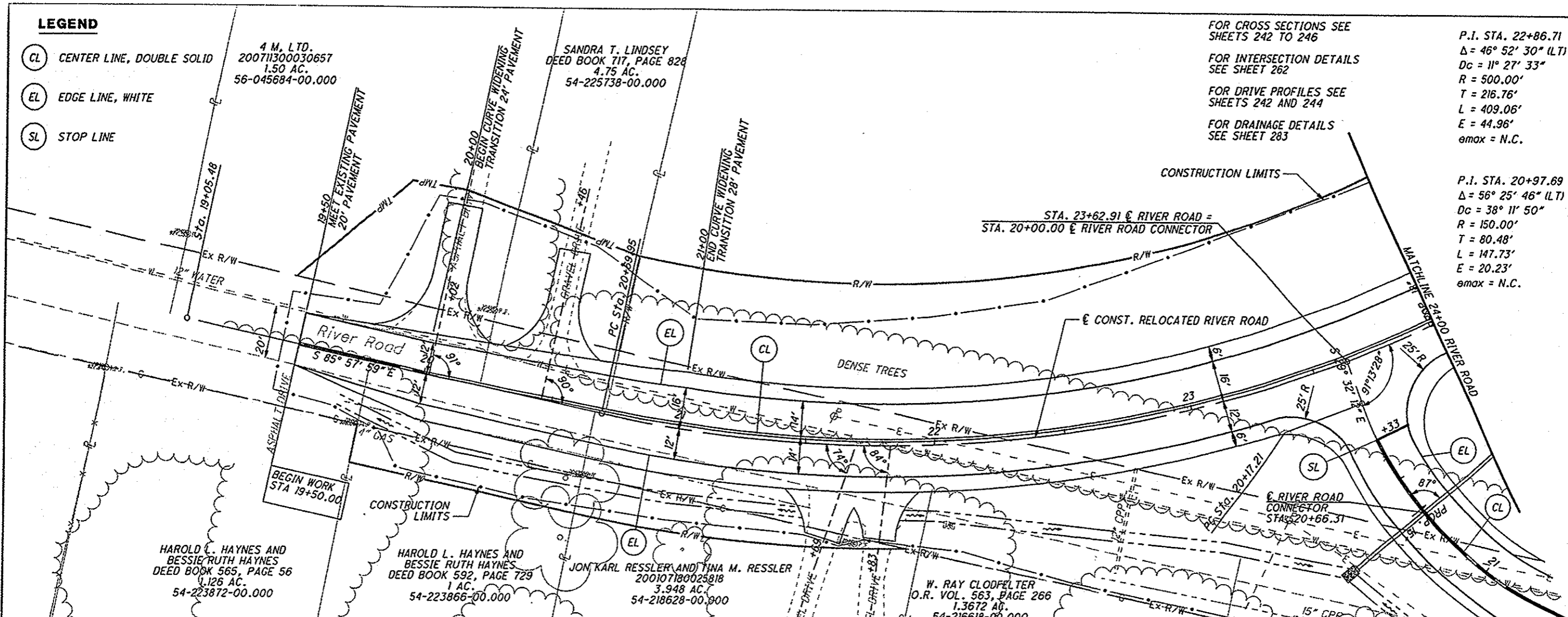


CALCULATED
MMMB
CHECKED
JEL

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

LIC-THORNWOOD

60
285

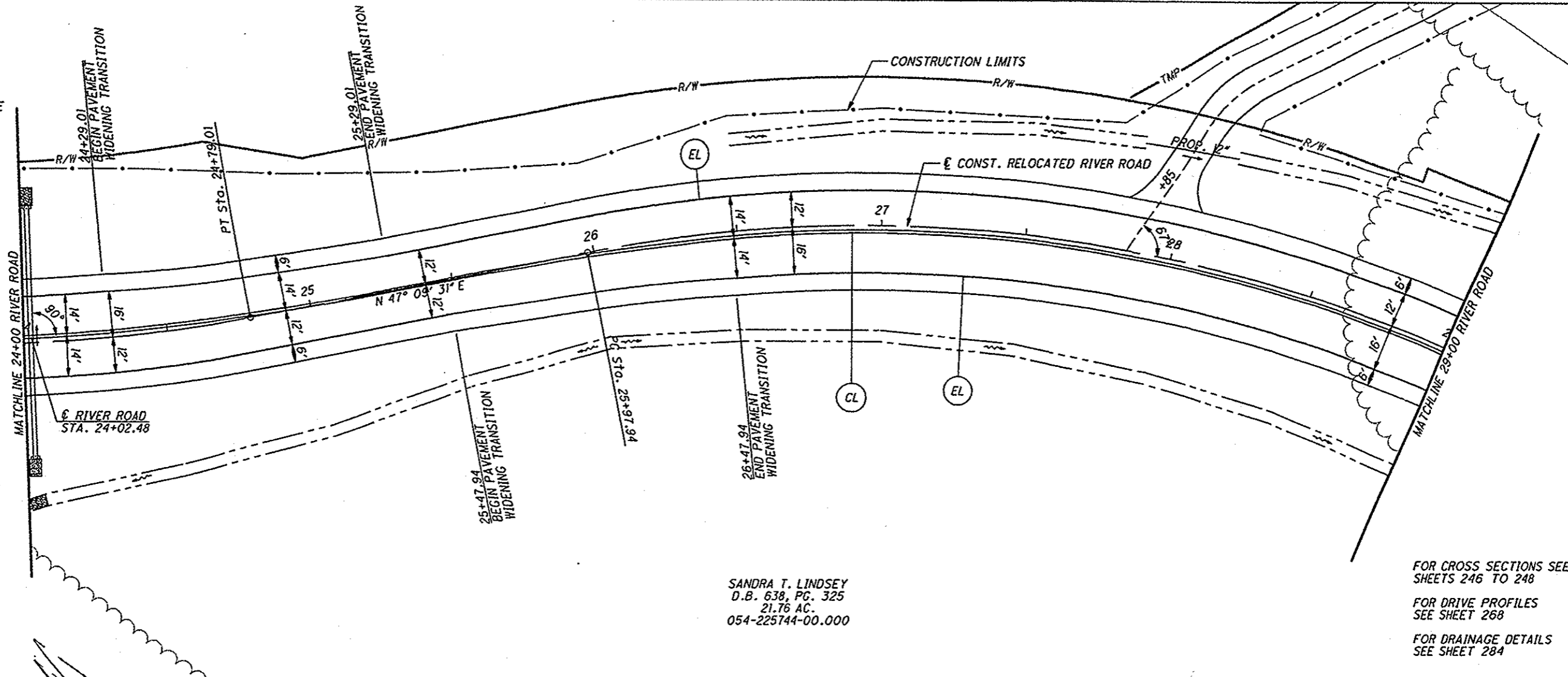


LEGEND

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

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

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

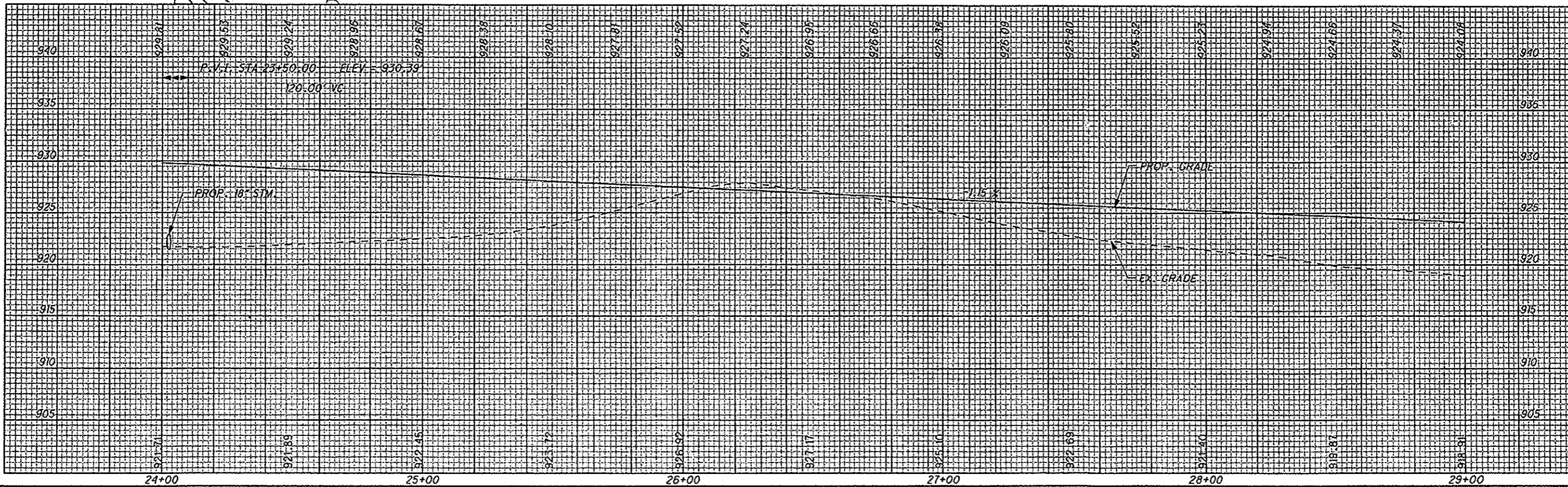


SANDRA T. LINDSEY
 D.B. 638, PG. 325
 21.76 AC.
 054-225744-00.000

FOR CROSS SECTIONS SEE SHEETS 246 TO 248

FOR DRIVE PROFILES SEE SHEET 268

FOR DRAINAGE DETAILS SEE SHEET 284



HORIZONTAL SCALE IN FEET

CALCULATED: MMB
 CHECKED: JEL

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

LIC-THORNWOOD

61
 285

FOR CROSS SECTIONS SEE SHEETS 248 TO 251

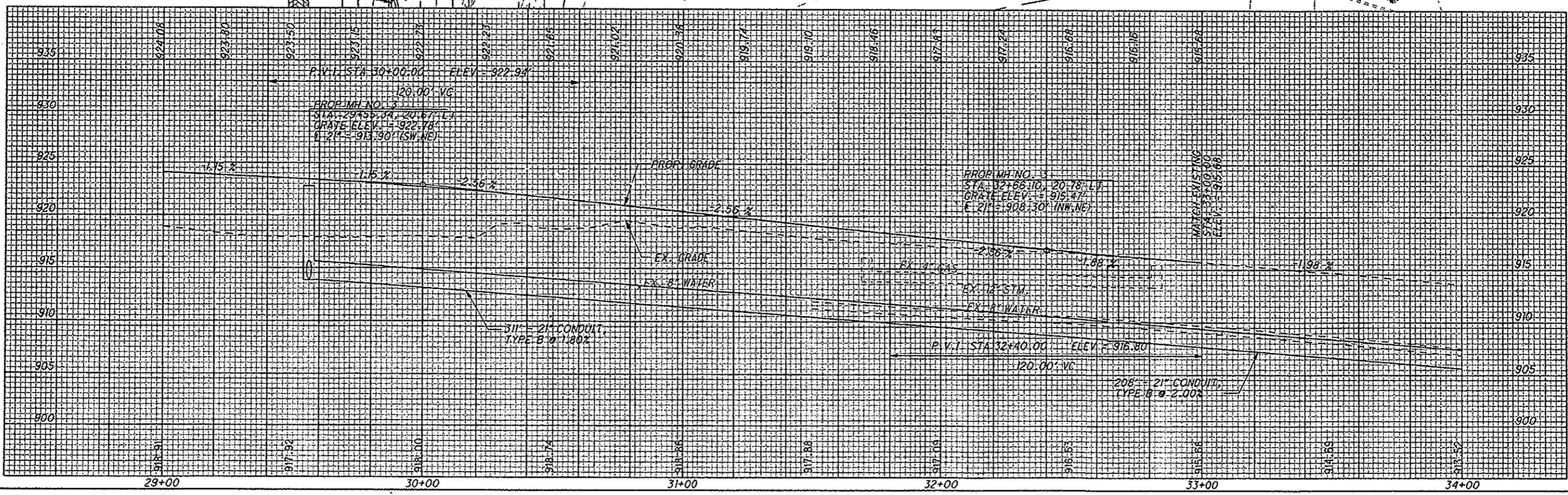
FOR INTERSECTION DETAILS SEE SHEET 263

FOR DRIVE PROFILES SEE SHEET 267

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

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

PLAN AND PROFILE - RELOC. RIVER/REDDINGTON

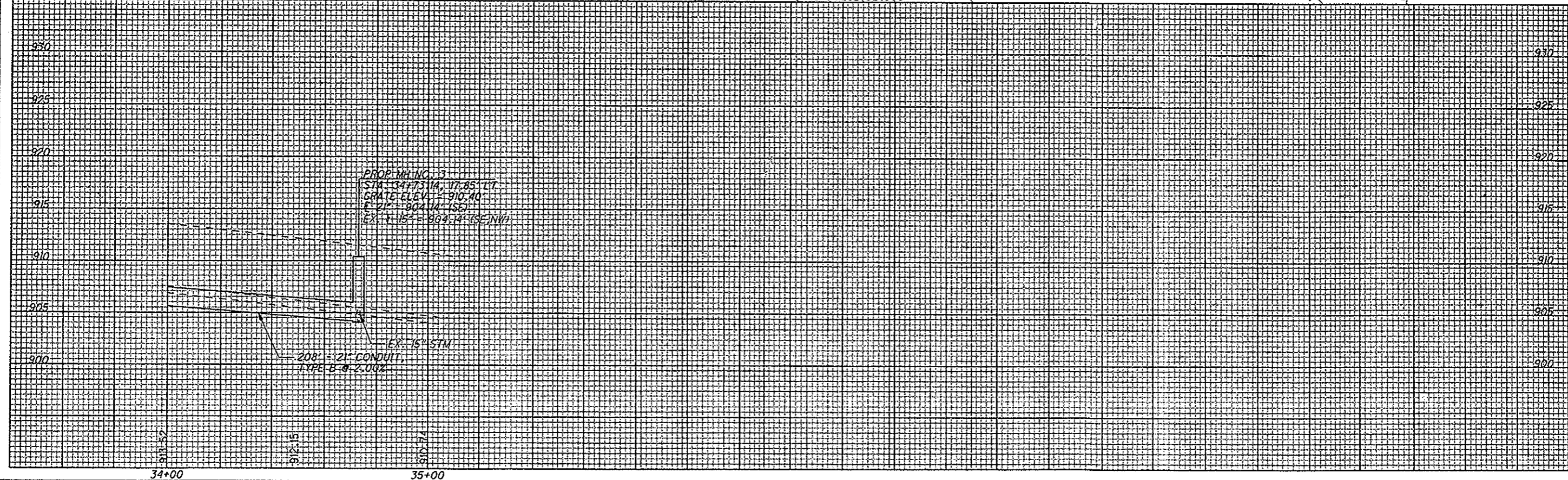
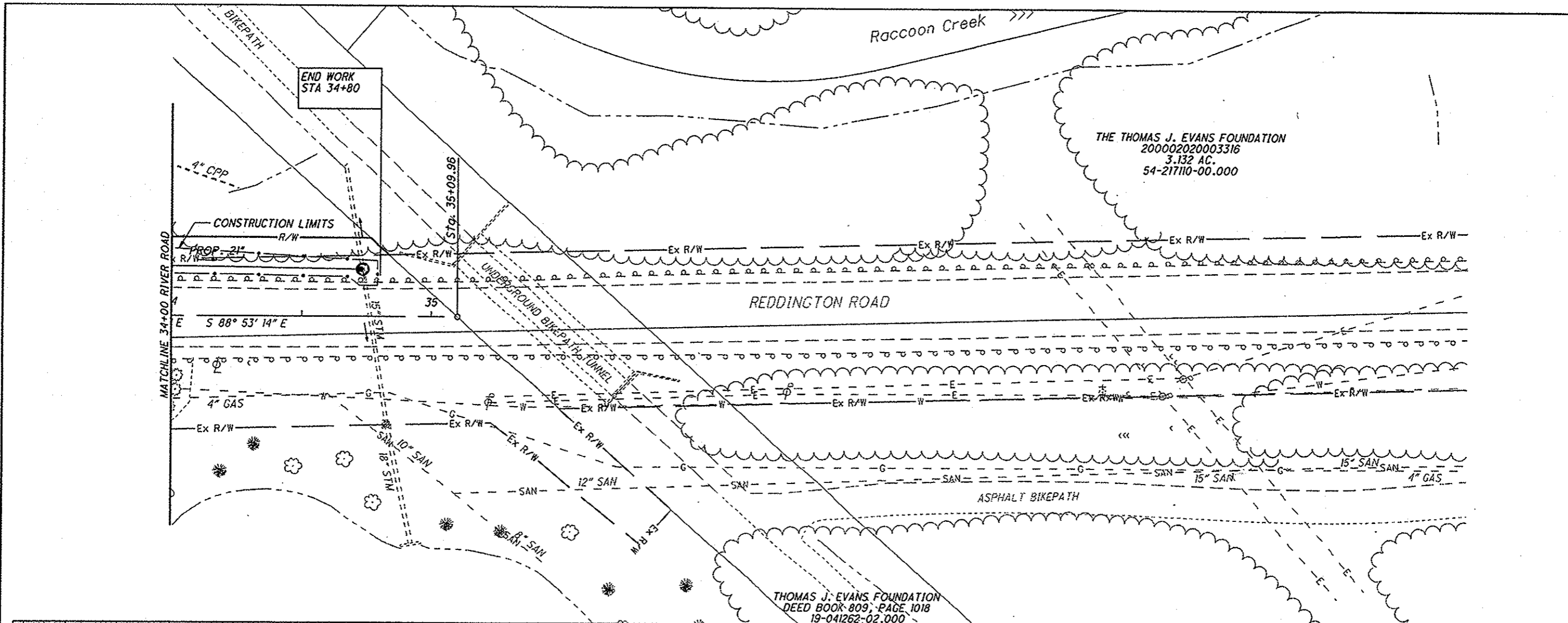
LIC-THORNWOOD

STA. 29+00 TO STA. 34+00

HORIZONTAL SCALE IN FEET
 CALCULATED MMB
 CHECKED JEL

62
285

IP_PWP.dms08268\78116CP304.dgn 02-SEP-2009 7:10AM jlove



END WORK
STA 34+80

CONSTRUCTION LIMITS

MATCHLINE 34+00 RIVER ROAD

4" CPP

PROP. 21"

S 88° 53' 14" E

4" GAS

Ex R/W

10" SAN

12" SAN

15" SAN

15" SAN

4" GAS

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

15" SAN

PROP. MANHOLE
 STA 34+73.14, 17.85' LT
 GRATE ELEV. 910.40'
 E 21° 15' 00" (SE)
 EX. 15' 15" 88° 14' (SE/NW)

208" 12" CONDUIT
 TYPE B @ 2.00%

EX 15' STM

EX 15' STM

EX 15' STM

EX 15' STM

EX 15' STM

EX 15' STM

EX 15' STM

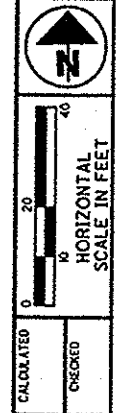
REDDINGTON ROAD

ASPHALT BIKEPATH

Raccoon Creek

THE THOMAS J. EVANS FOUNDATION
 200002020003316
 3.132 AC.
 54-217110-00.000

THOMAS J. EVANS FOUNDATION
 DEED BOOK 809, PAGE 1018
 19-041262-02.000



CALCULATED
 DESIGNED

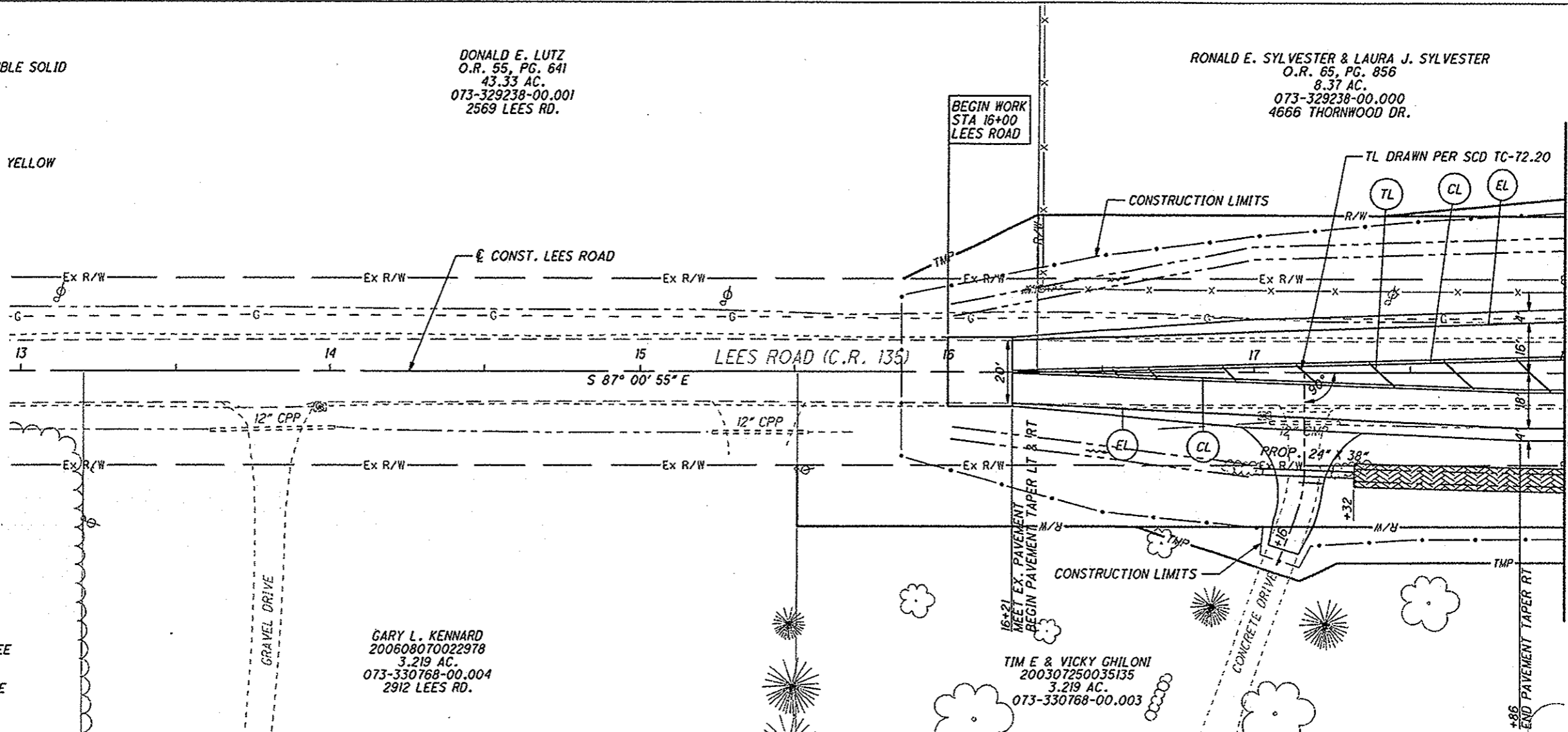
PLAN AND PROFILE
 RIVER ROAD - STA. 34+00 TO STA. 35+10

LEGEND

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

DONALD E. LUTZ
O.R. 55, PG. 641
43.33 AC.
073-329238-00.001
2569 LEES RD.

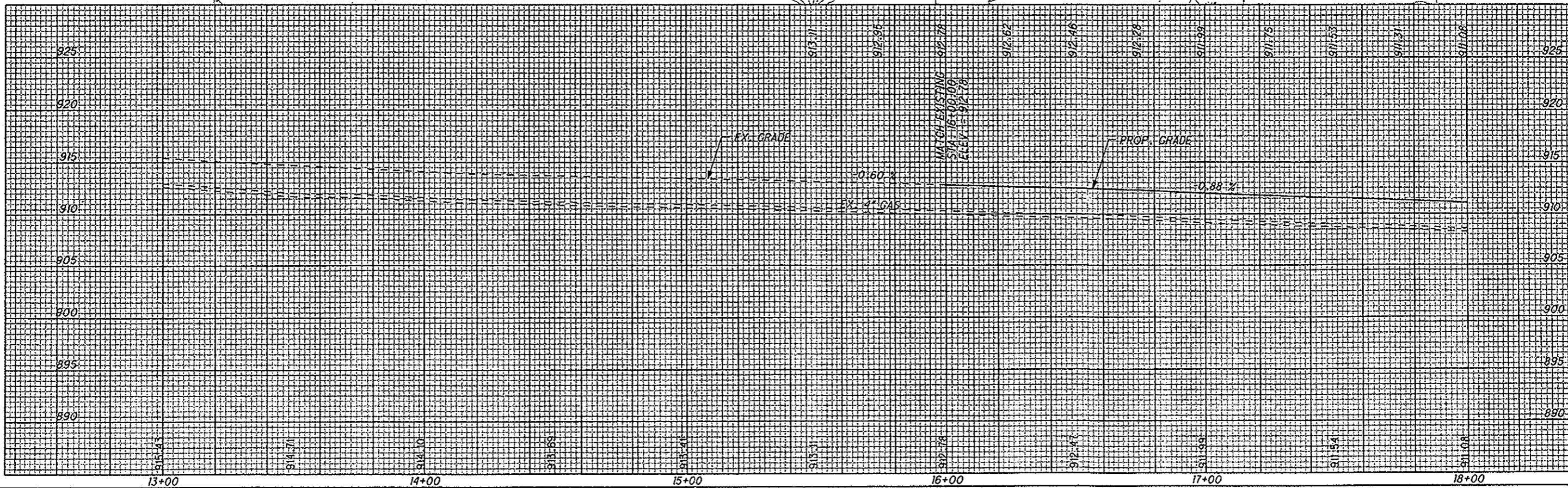
RONALD E. SYLVESTER & LAURA J. SYLVESTER
O.R. 65, PG. 856
8.37 AC.
073-329238-00.000
4666 THORNWOOD DR.



FOR CROSS SECTIONS SEE SHEETS 252 TO 254
FOR DRIVE PROFILES SEE SHEET 253

GARY L. KENNARD
200608070022978
3.219 AC.
073-330768-00.004
2912 LEES RD.

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



HORIZONTAL SCALE IN FEET

CALCULATED MMB

CHECKED JEL

PLAN AND PROFILE - LEES
STA. 13+00 TO STA. 18+00

LIC-THORNWOOD

64
285

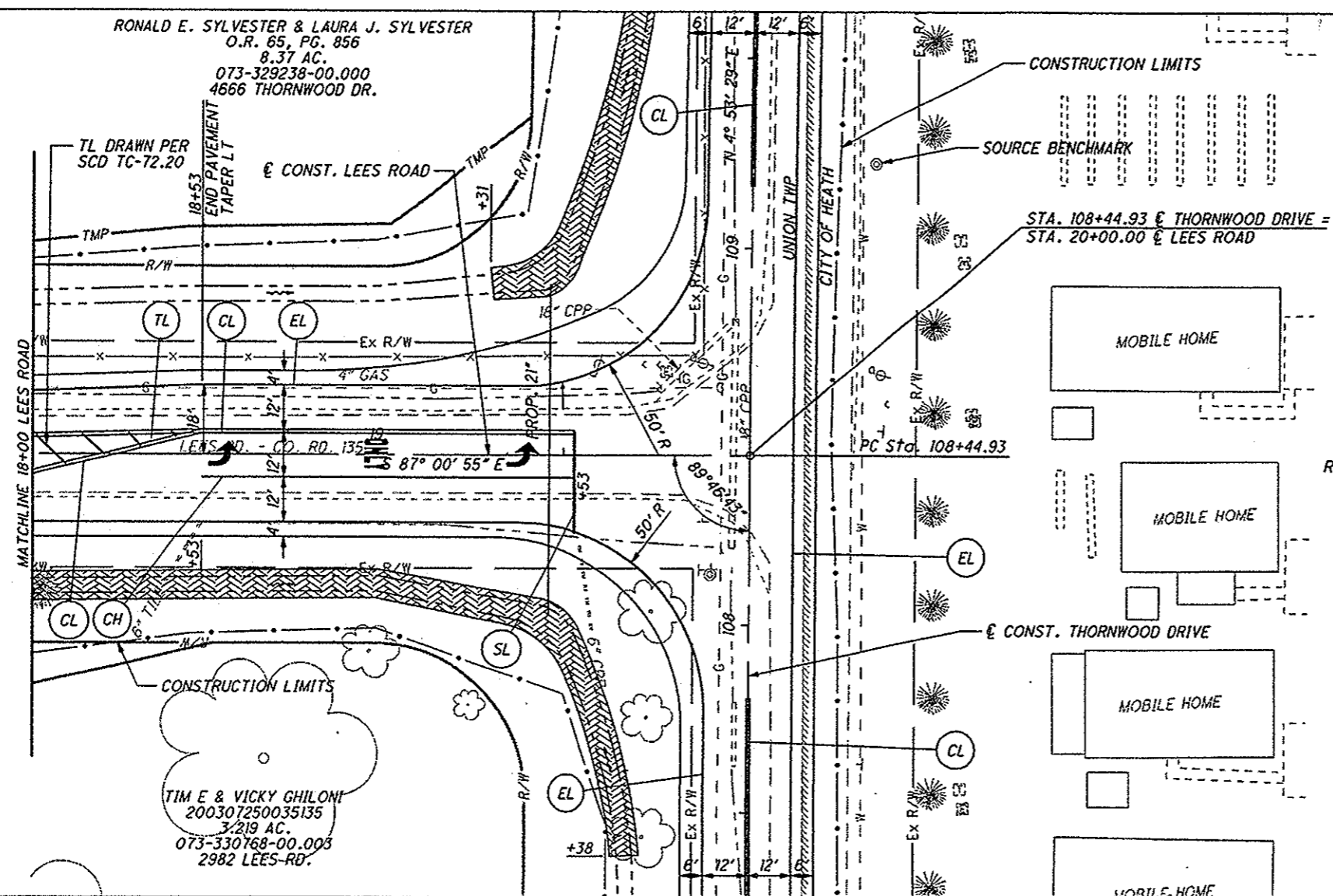
P.I. STA. 109+78.03
 $\Delta = 1^\circ 41' 07''$ (RT)
 $D_c = 0^\circ 37' 59''$
 $R = 9,050.00'$
 $T = 133.10'$
 $L = 266.18'$
 $E = 0.98'$
 $e_{max} = N.C.$

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

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

LEGEND

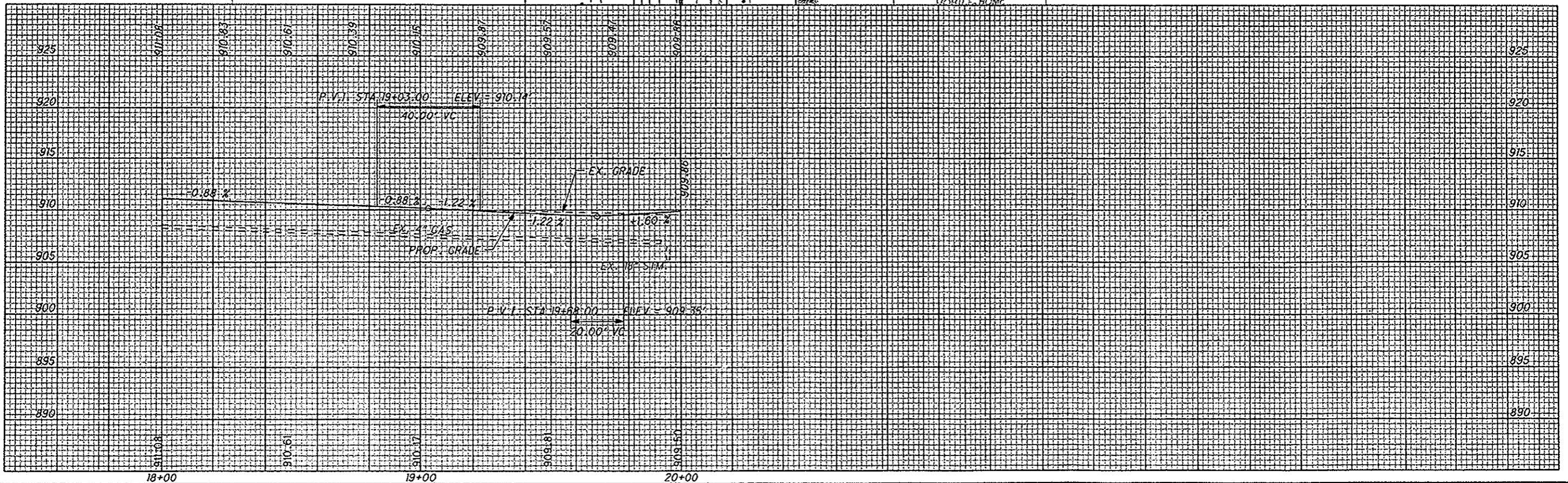
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE
- CH CHANNELIZING LINE
- TL TRANSVERSE LINE, YELLOW
- 7.5' WIDE TURF REINFORCING MAT, TYPE 1



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

FOR CROSS SECTIONS SEE SHEETS 254 TO 255
 FOR INTERSECTION DETAILS SEE SHEET 259

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



IP_PWP.dms05268\781160P403.dgn 02-SEP-2009 7:11AM Flove

STA. 23+62.91 @ RELOCATED RIVER ROAD =
STA. 20+00.00 @ RIVER ROAD CONNECTOR

| | |
|----------------------------------|----------------------------------|
| RELOCATED RIVER ROAD | RIVER ROAD CONNECTOR |
| P.I. STA. 22+86.71 | P.I. STA. 20+97.69 |
| $\Delta = 46^\circ 52' 30"$ (LT) | $\Delta = 56^\circ 25' 46"$ (LT) |
| $Dc = 11^\circ 27' 33"$ | $Dc = 38^\circ 11' 50"$ |
| $R = 500.00'$ | $R = 150.00'$ |
| $T = 216.76'$ | $T = 80.48'$ |
| $L = 409.06'$ | $L = 147.73'$ |
| $E = 44.96'$ | $E = 20.23'$ |
| $emax = N.C.$ | $emax = N.C.$ |

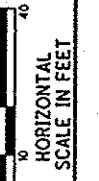
FOR CROSS SECTIONS SEE
SHEETS 256 TO 257

FOR INTERSECTION DETAILS
SEE SHEET 262

FOR DRAINAGE DETAILS SEE
SHEETS 283 TO 284

LEGEND

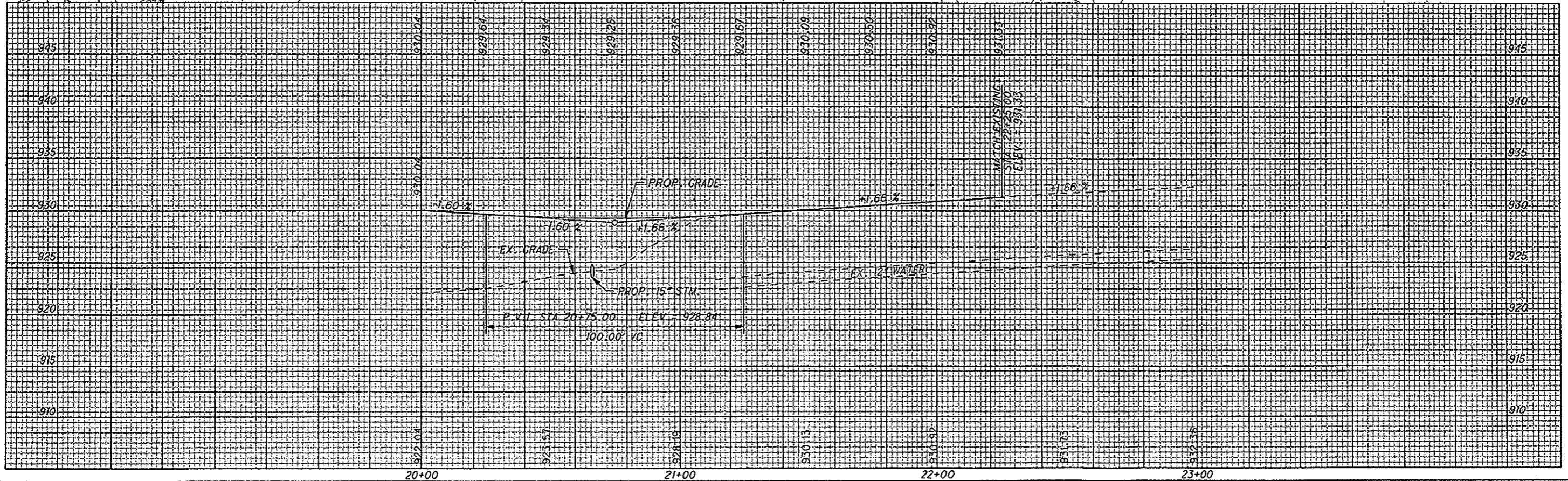
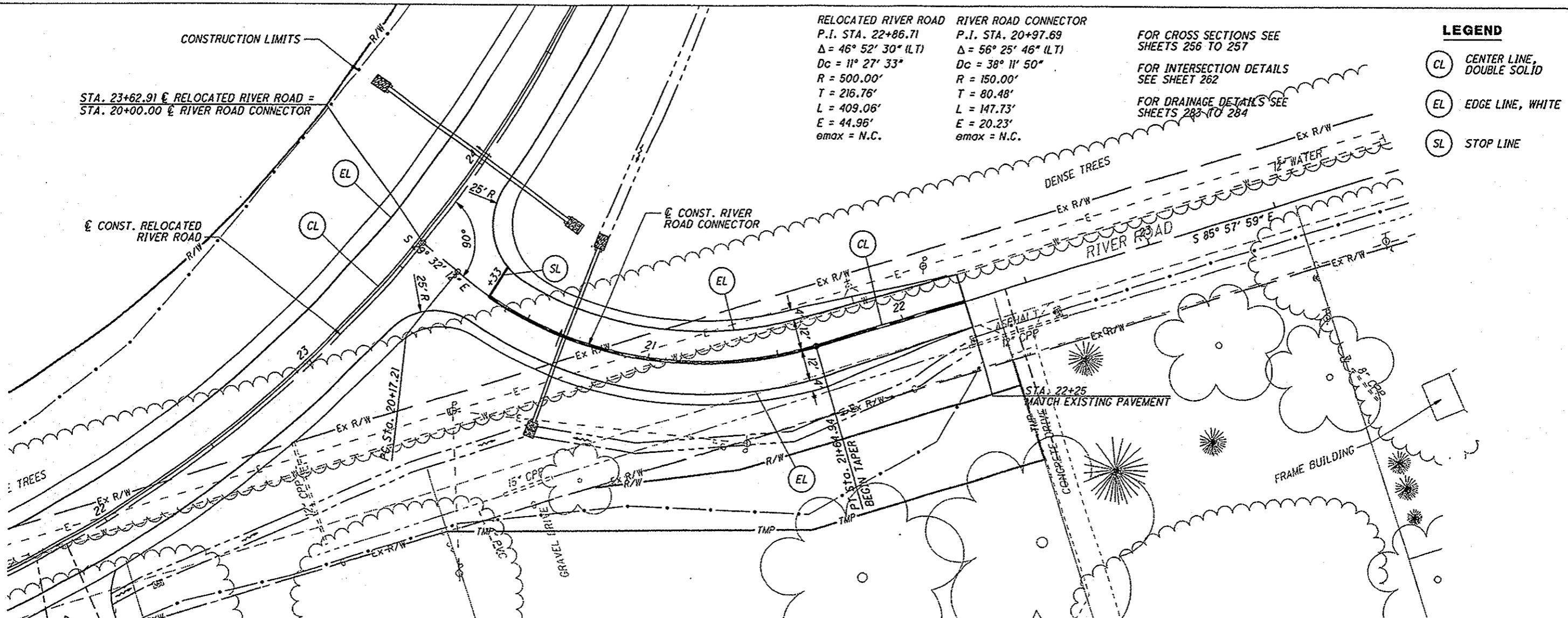
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE



CALCULATED RAT
CHECKED JEL





**PLAN AND PROFILE - RIVER ROAD CONNECTOR
STA. 20+00 TO STA. 22+25**

LIC-THORNWOOD



IP_PWP.dms08268\78116CP501.dgn 02-SEP-2009 7:11AM flove

LEGEND

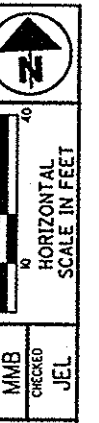
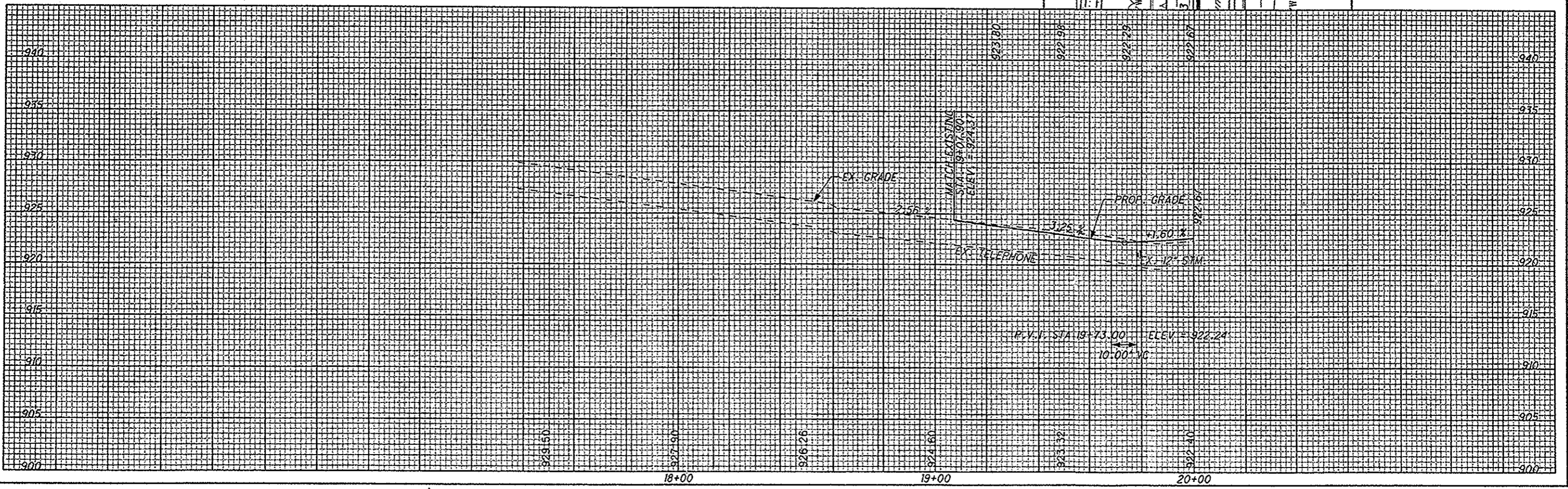
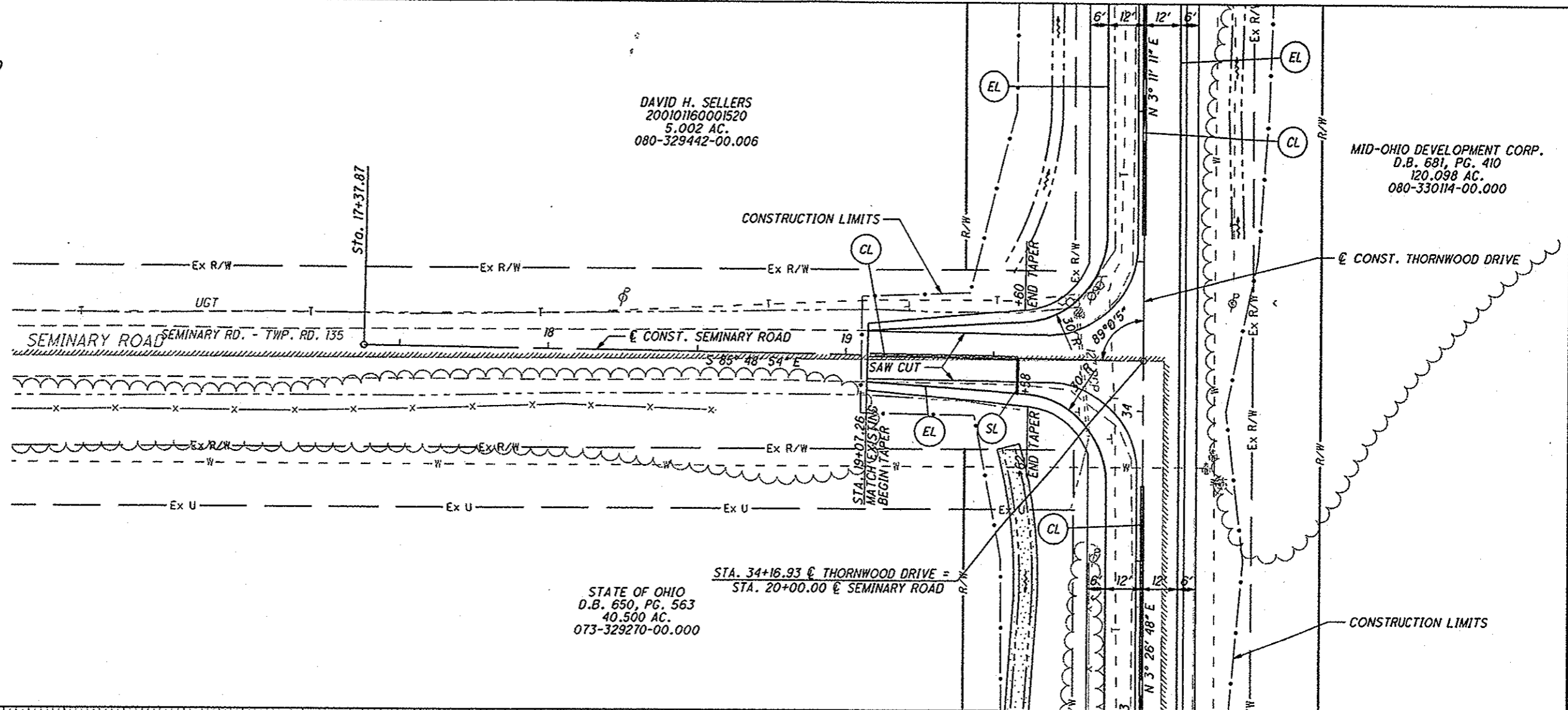
-  CL CENTER LINE, DOUBLE SOLID
-  EL EDGE LINE, WHITE
-  SL STOP LINE
-  7.5' WIDE DITCH EROSION PROTECTION

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

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

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

FOR INTERSECTION DETAILS
SEE SHEET 258



CALCULATED MMB CHECKED JEL
PLAN AND PROFILE - SEMINARY STA. 17+37.87 TO STA. 20+00

IP_PWP.dms08268\78116GF600.DGN 02-SEP-2009 7:11AM jlove


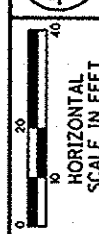
LEGEND

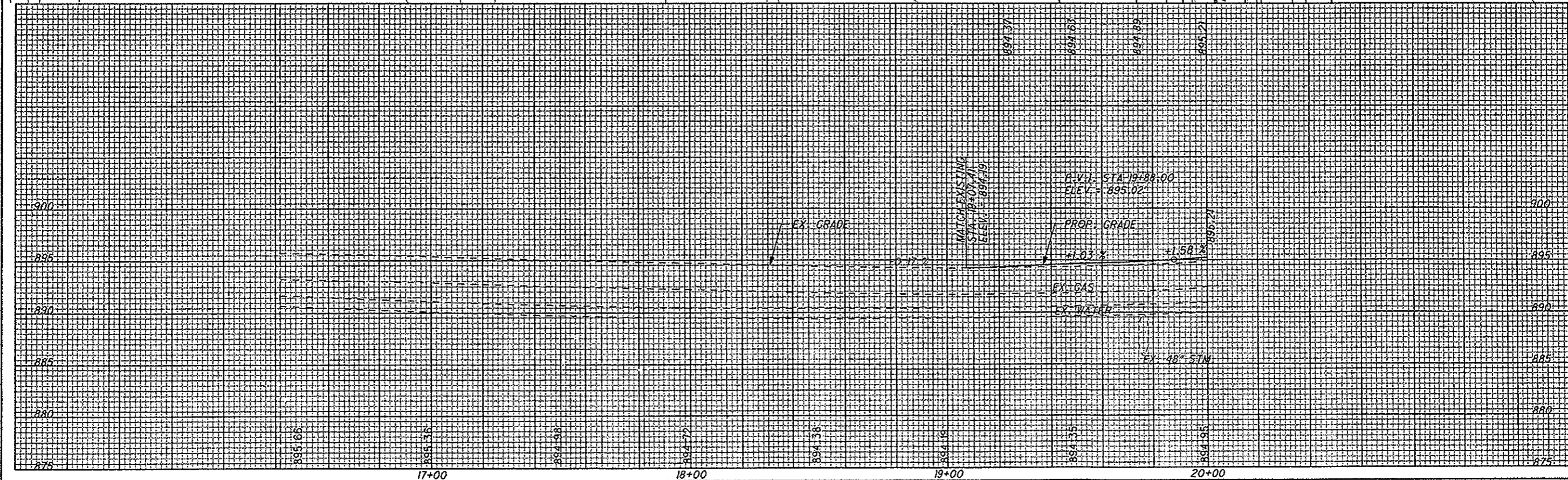
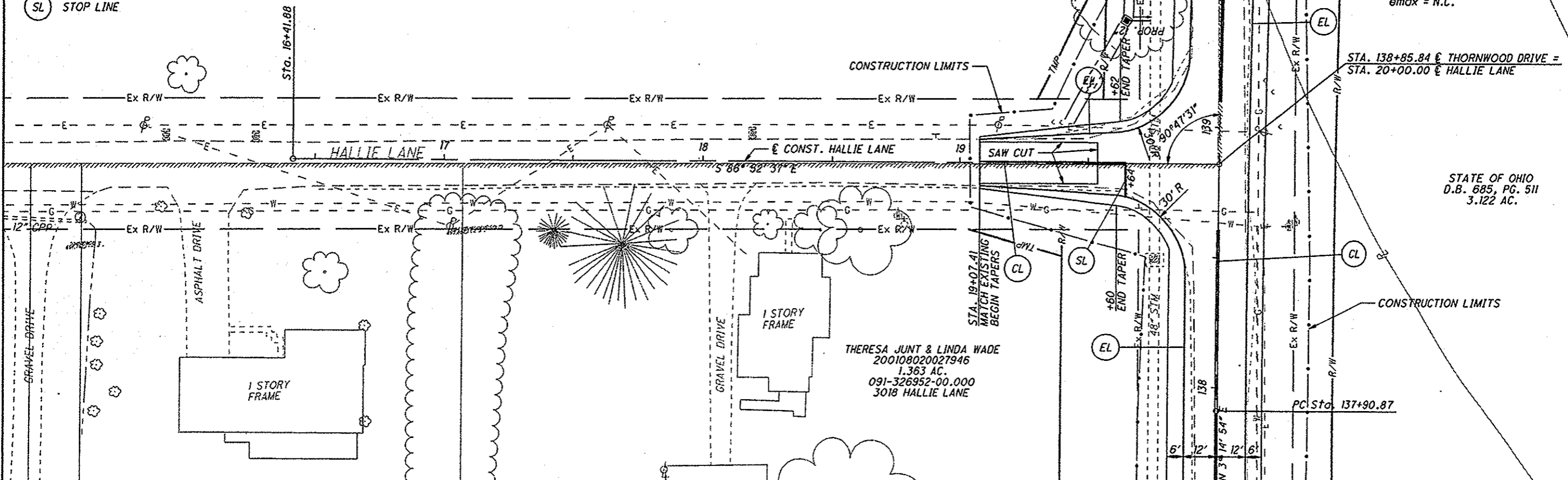
- CL CENTER LINE, DOUBLE SOLID
- EL EDGE LINE, WHITE
- SL STOP LINE

FOR INTERSECTION DETAILS
SEE SHEET 260

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)
 $Dc = 0^\circ 38' 12''$
 $R = 9,000.00'$
 $T = 165.82'$
 $L = 331.60'$
 $E = 1.53'$
 $e_{max} = N.C.$

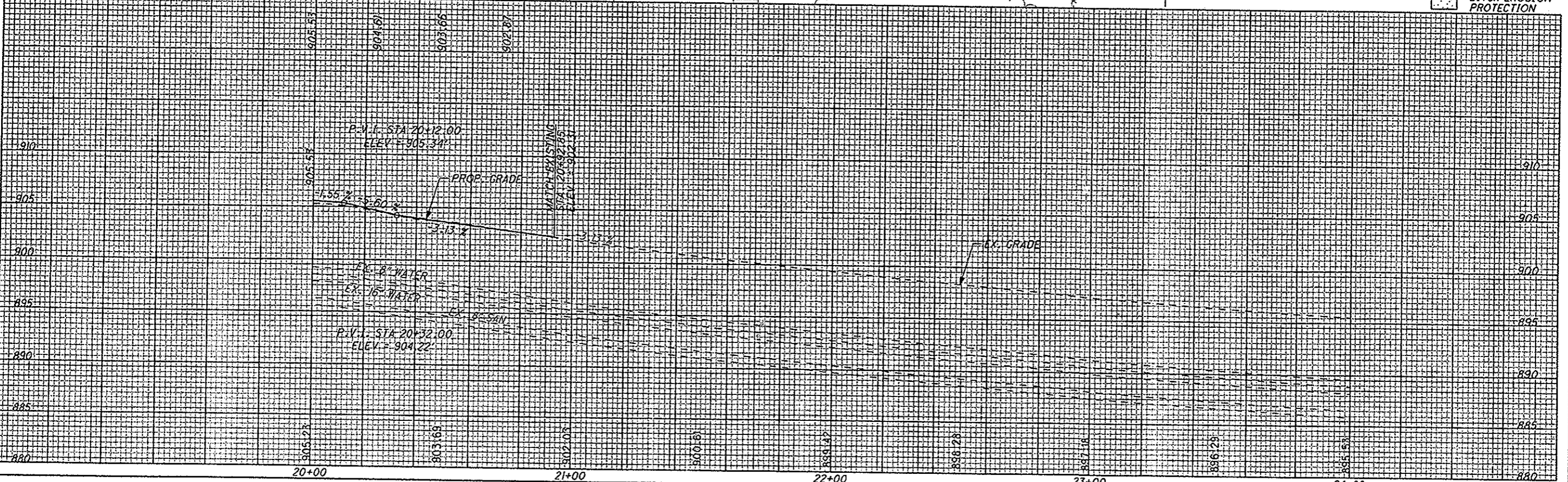
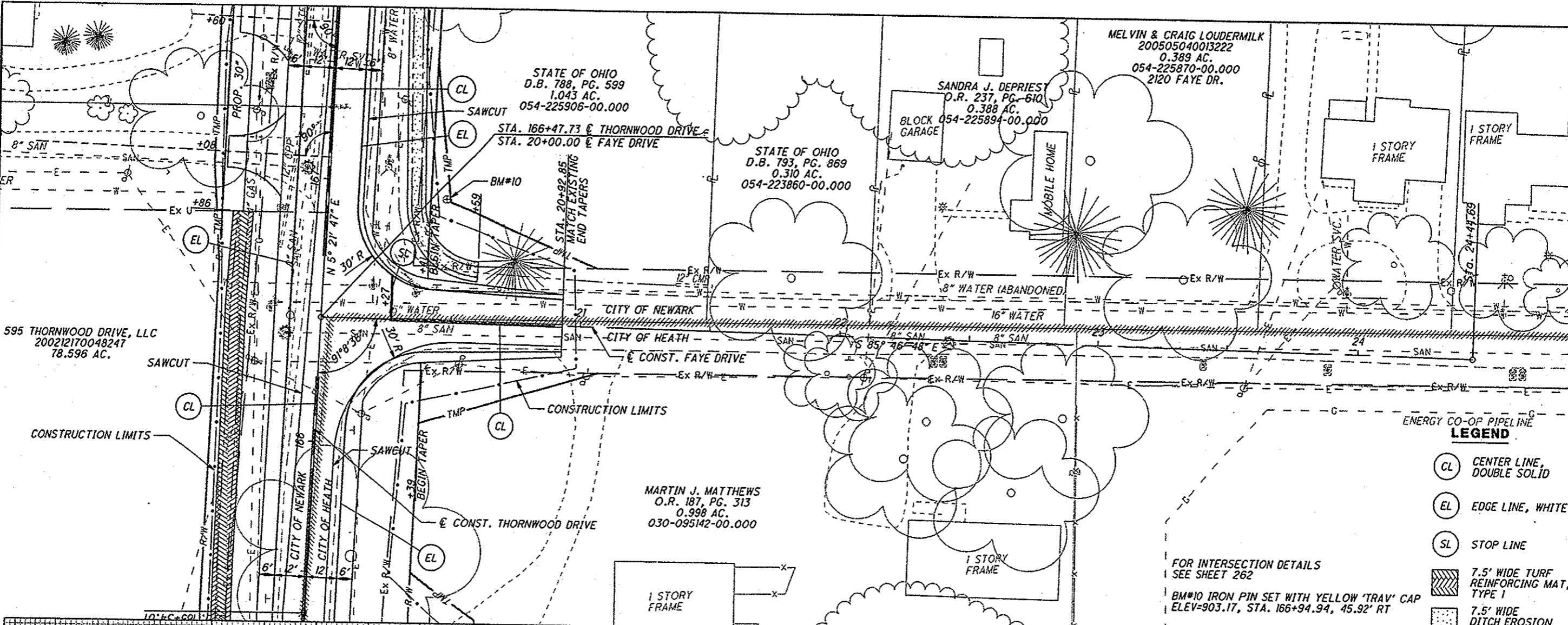


 HORIZONTAL
 SCALE IN FEET
 CALCULATED: MMB
 CHECKED: JEL



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

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

LIC-THORNWOOD



- ENERGY CO-OP PIPELINE LEGEND**
- CL CENTER LINE, DOUBLE SOLID
 - EL EDGE LINE, WHITE
 - SL STOP LINE
 - 7.5' WIDE TURF REINFORCING MAT, TYPE I
 - 7.5' WIDE DITCH EROSION PROTECTION



CALCULATED
MAMB
CREATED
JEL

20'
10'
0'
HORIZONTAL SCALE IN FEET

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


LIC-THORNWOOD

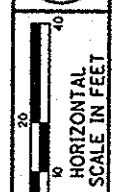
IP_PWP.dms08268_78116GP602.DGN 02-SEP-2009 7:12AM jlove

LEGEND

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

FOR INTERSECTION DETAILS SEE SHEET 259



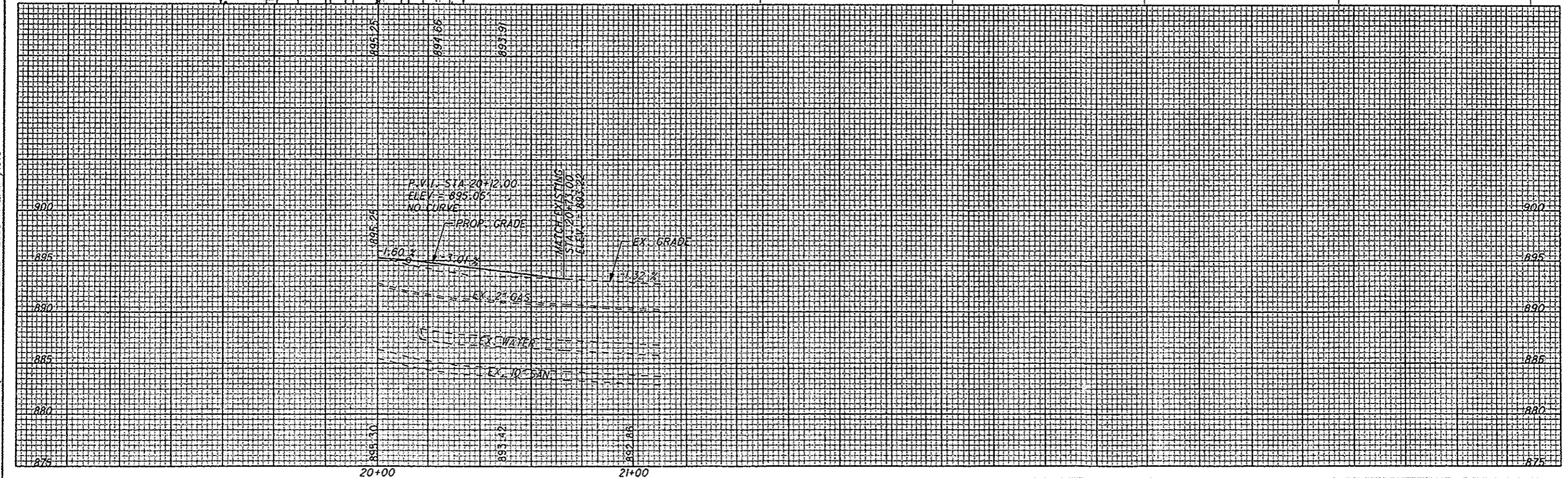
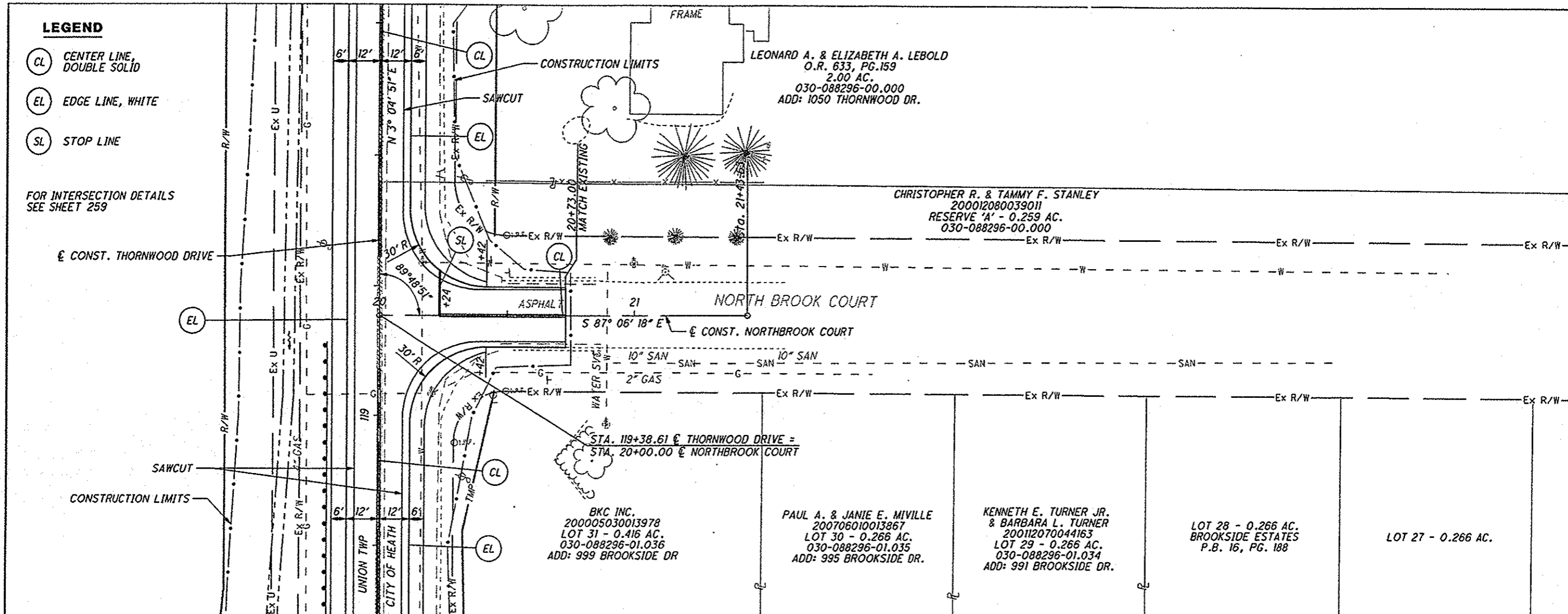


 HORIZONTAL SCALE IN FEET

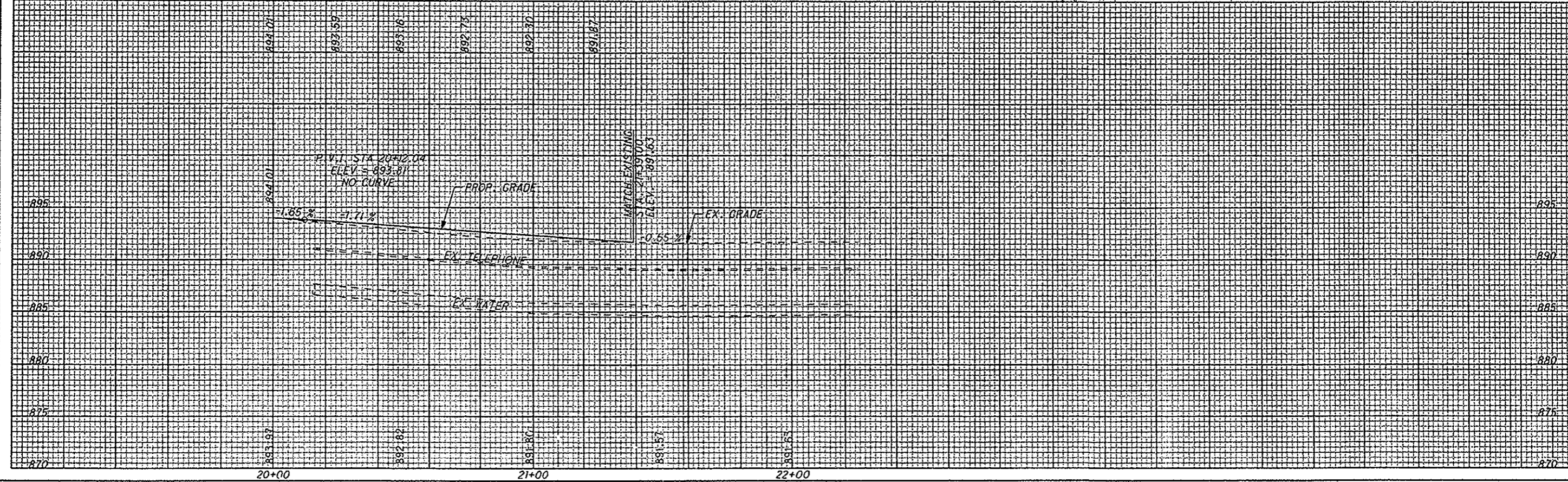
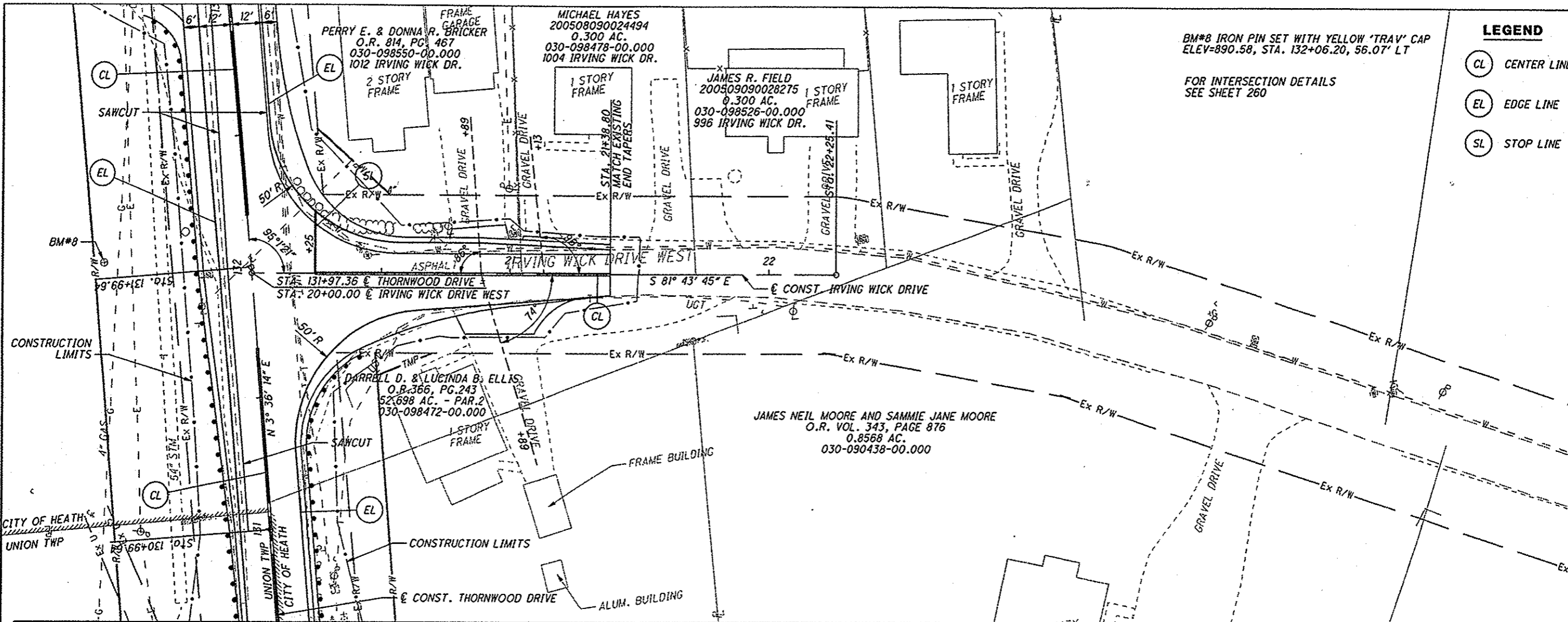
PLAN AND PROFILE - NORTHBROOK
 STA. 20+00 TO STA. 21+43.63

LIC-THORNWOOD

70
285



IP_PWP.dms08288\78116GP604.DGN 02-SEP-2009 7:12AM jlove



PLAN AND PROFILE - IRVING WICK

LIC-THORNWOOD

STA. 20+00 TO STA. 22+25.41

71
285

SCALE IN FEET
HORIZONTAL
VERTICAL

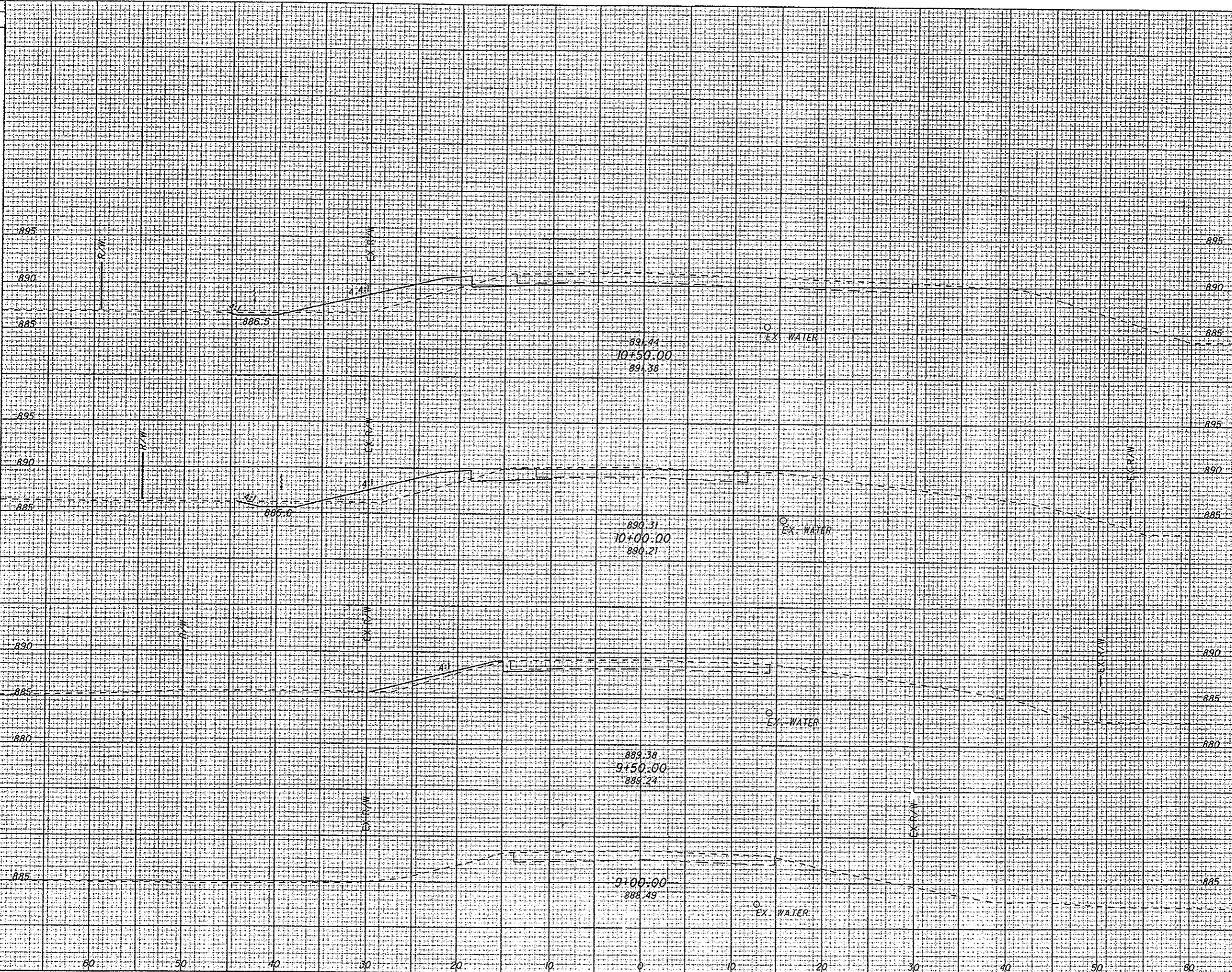
CHECKED: JEL
CALCULATED: MMB

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:30AM jrove

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
OUT FILL OUT FILL

CALCULATED
MMB
CHECKED
JEL



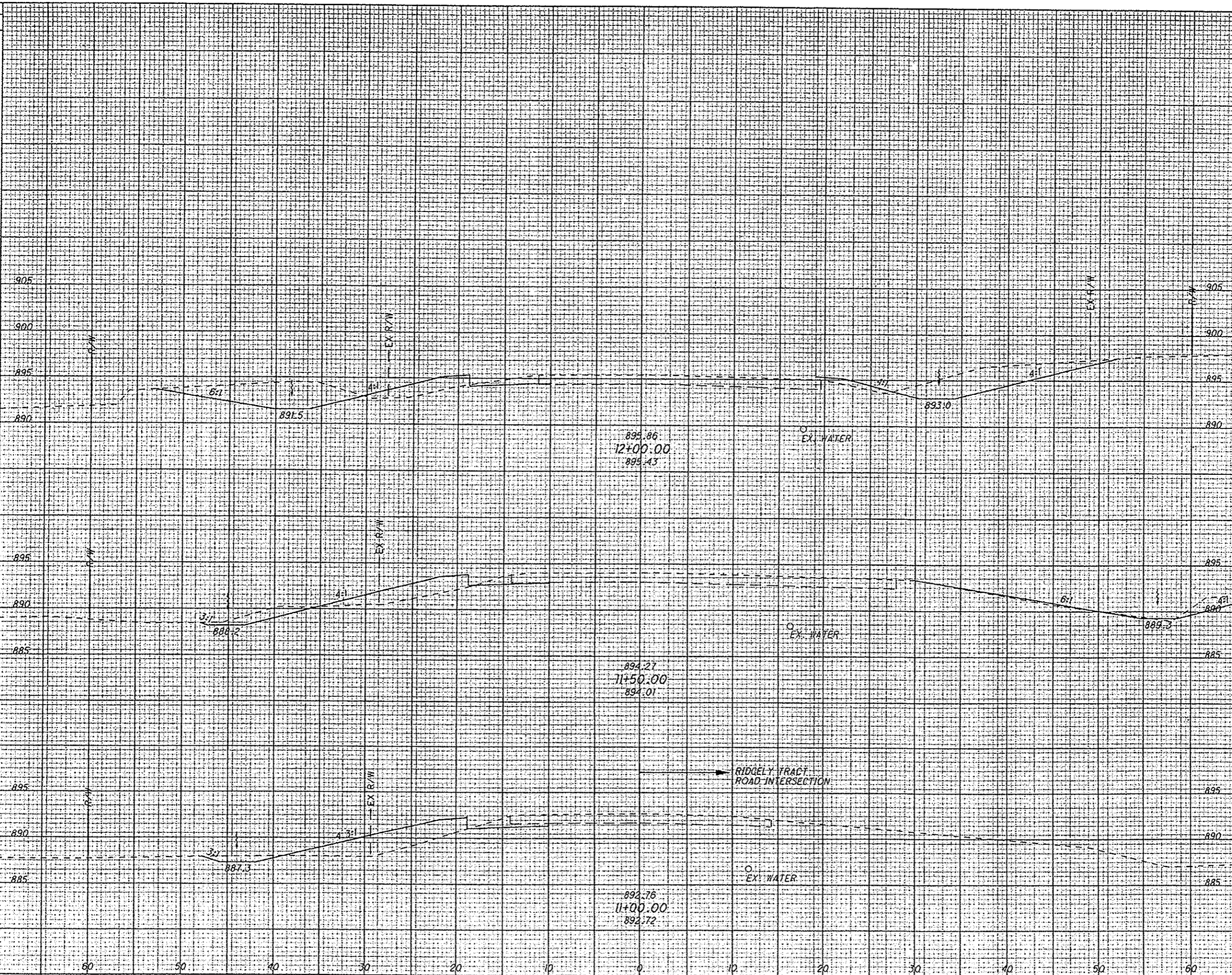
CROSS SECTIONS - THORNWOOD
STA. 9+00.00 TO STA. 10+50.00

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:31AM jlove

SEEDING

END SO. WIDTH YDS.



| END AREA | | VOLUME | | CALCULATED | CHECKED |
|--|------|--------|------|------------|---------|
| CUT | FILL | CUT | FILL | | |
| | | | | MMB | JEL |
| CROSS SECTIONS - THORNWOOD STA. 11+00.00 TO STA. 12+00.00 | | | | | |
| LIC-THORNWOOD | | | | | |
| 73 285 | | | | | |

IP_PWP.dms08288\78116XS001.dgn 02-SEP-2009 9:31AM jlove

SEEDING
END WIDTH
SO. YDS.

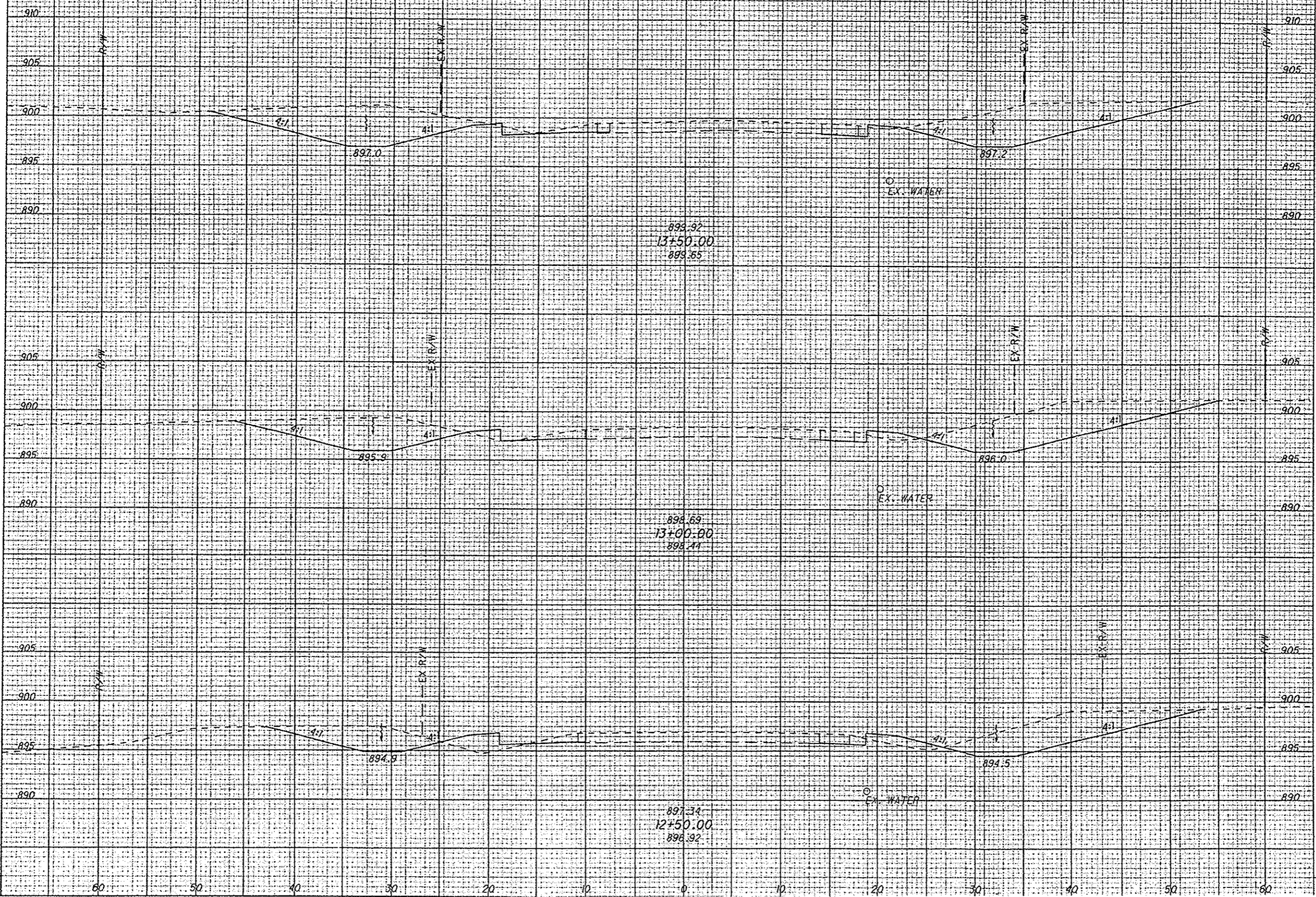
END AREA
OUT FILL
VOLUME
OUT FILL

CALCULATED
MMB
CHECKED
JEL

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

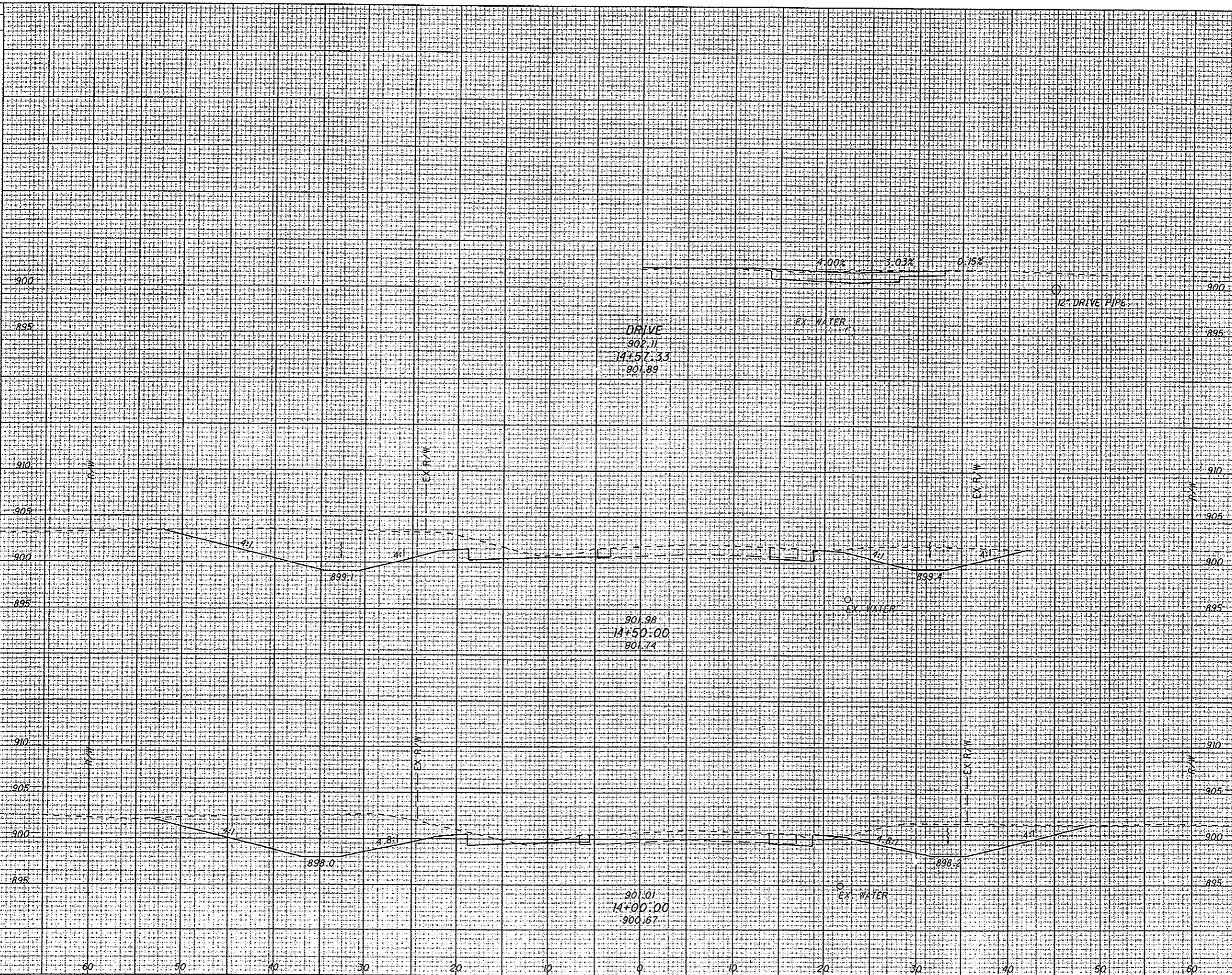
LIC-THORNWOOD

74
285



IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:31AM jlove

SEEDING
END WIDTH SO. YDS.



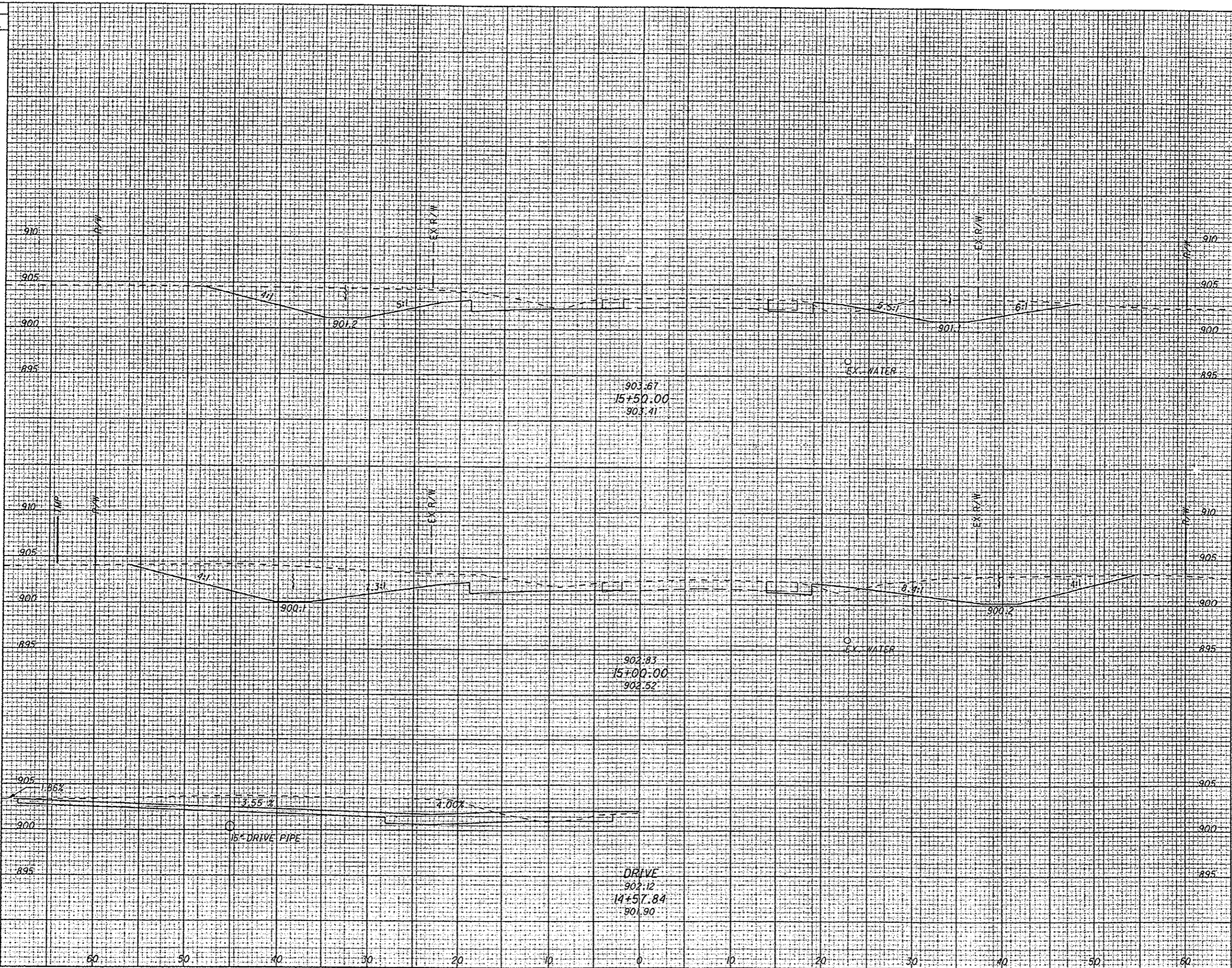
| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |

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

LIC-THORNWOOD

P:\PWP.dms\08268\78116XS001.dgn 02-SEP-2009 9:31AM jlove

SEEDING
END SO.
WIDTH POS.



903.67
15+50.00
903.41

902.83
15+00.00
902.52

DRIVE
902.12
14+57.84
901.90

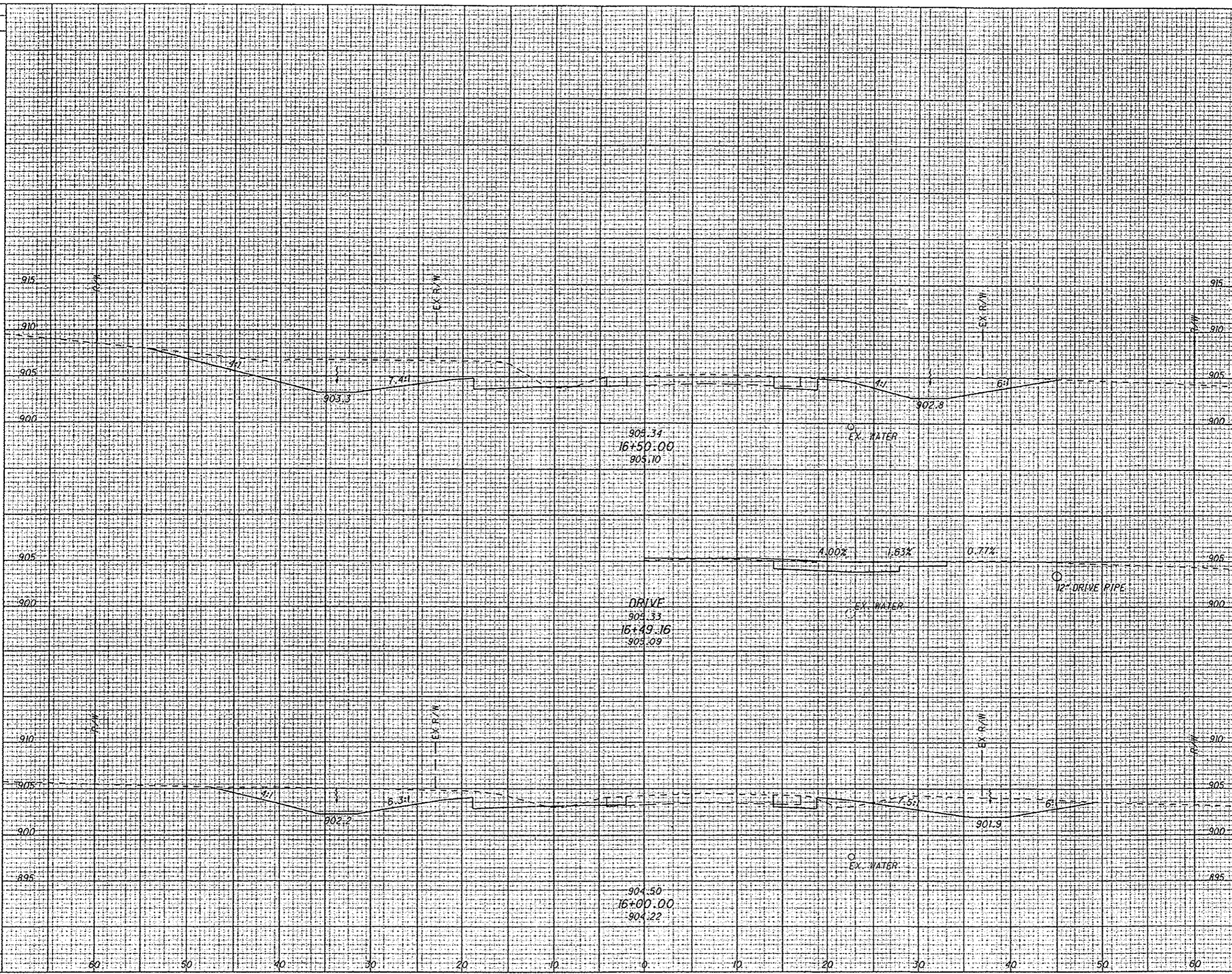
| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:31AM f1rove

SEEDING
END SO.
WIDTH YDS.



| END AREA | | VOLUME | | CALCULATED MMB CREED JEL |
|----------|------|--------|------|-----------------------------------|
| CUT | FILL | CUT | FILL | |
| | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:31AM jlove

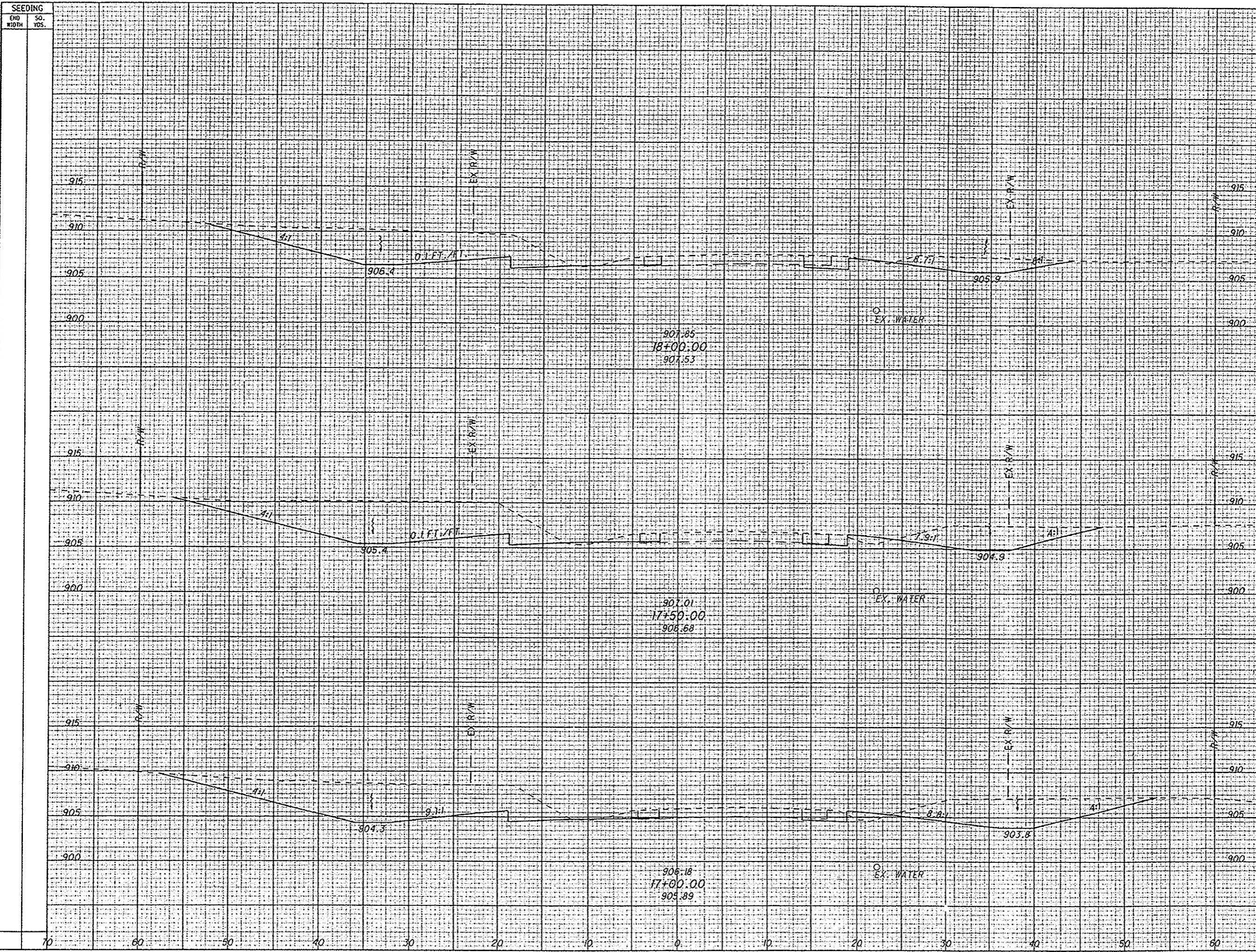
SEEDING
END SO.
WIDTH POS.

| END AREA | | VOLUME | | CALCULATED | |
|----------|------|--------|------|------------|-----|
| CUT | FILL | CUT | FILL | MMB | YEL |
| | | | | | |

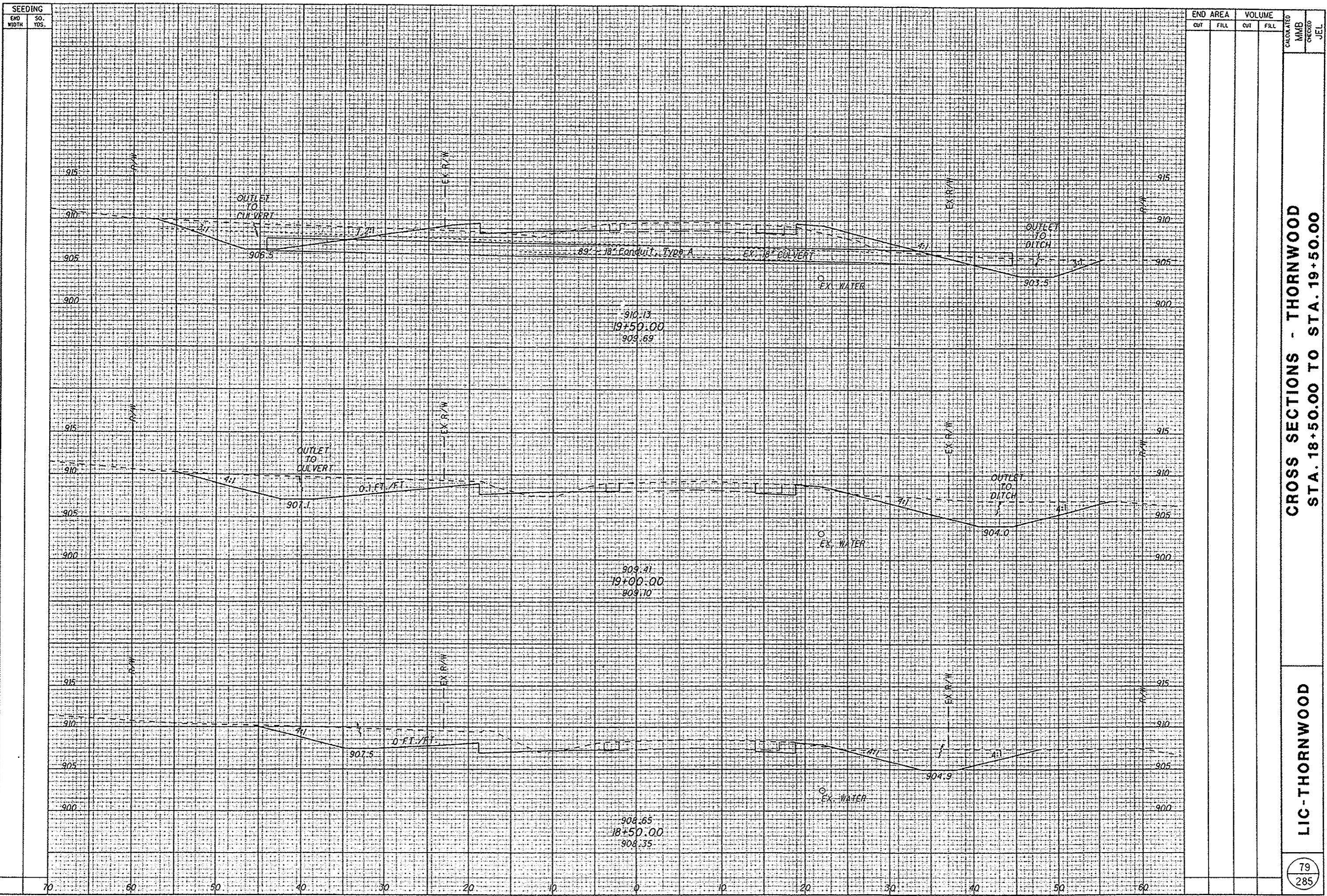
CROSS SECTIONS - THORNWOOD
STA. 17+00.00 TO STA. 18+00.00

LIC-THORNWOOD

78
285



P:\PWP\dms08268\78116X5001.dgn 02-SEP-2009 9:32AM jlove



| END | AREA | | VOLUME | | CALCULATED | MMB | CREGEO | JEL |
|-----|------|------|--------|------|------------|-----|--------|-----|
| | CUT | FILL | CUT | FILL | | | | |
| | | | | | | | | |

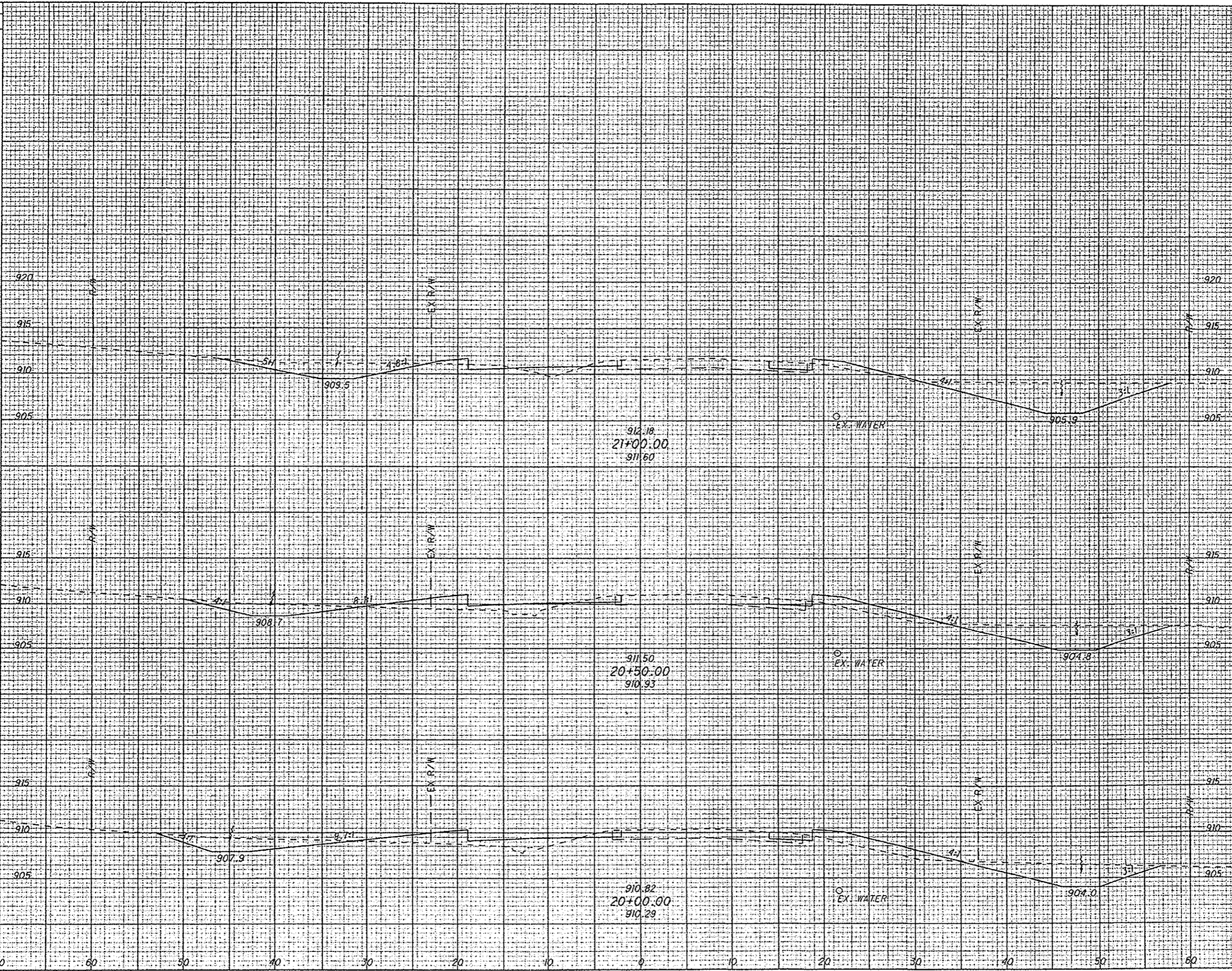
CROSS SECTIONS - THORNWOOD
 STA. 18+50.00 TO STA. 19+50.00

LIC-THORNWOOD

P:\PWP\dms08288\78116XS001.dgn 02-SEP-2009 9:32AM prove

SEEDING

END SO. NO. 110TH YDS.



END AREA VOLUME

CUT FILL CUT FILL

CALCULATED MMB CHECKED JEL

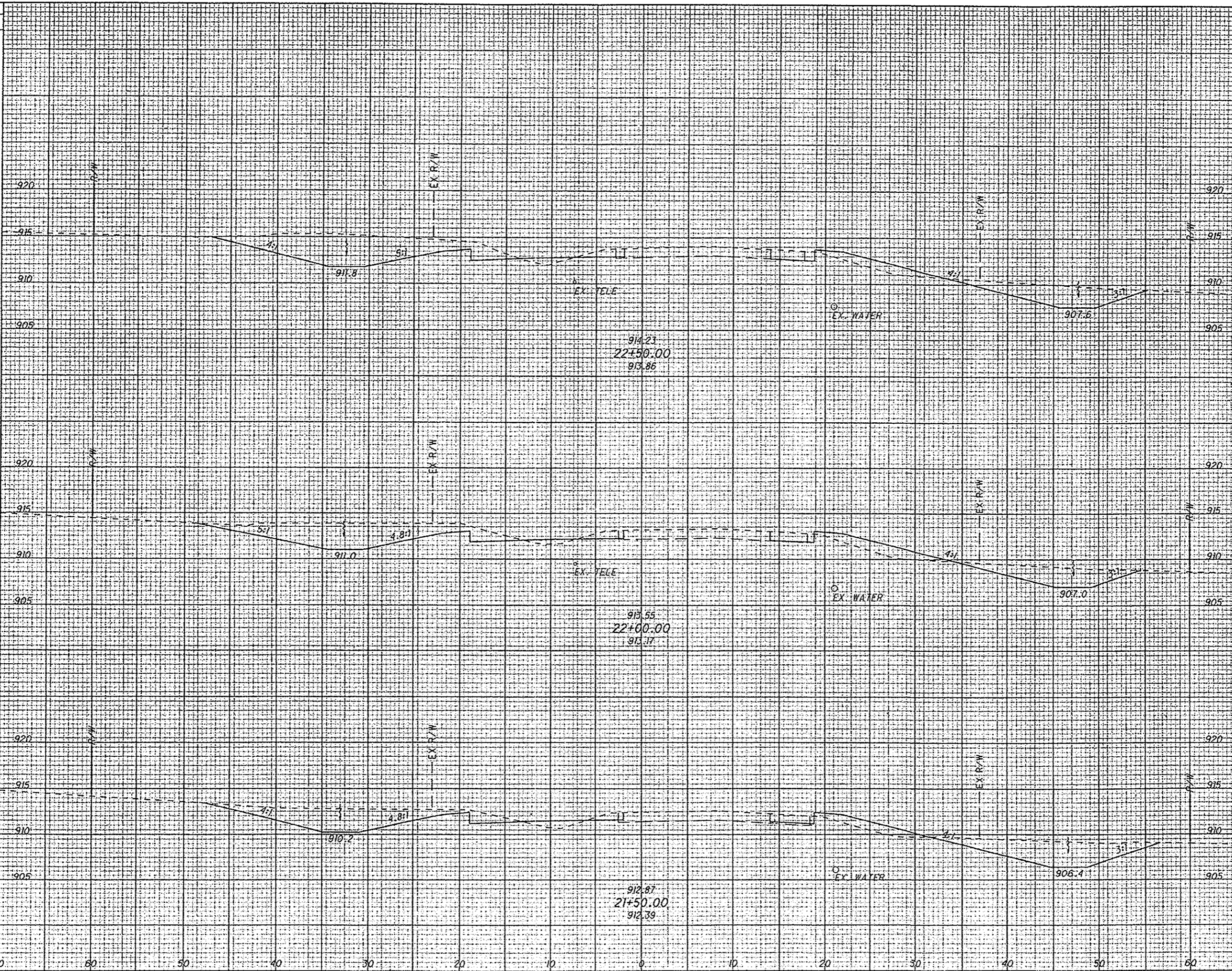
CROSS SECTIONS - THORNWOOD
STA. 20+00.00 TO STA. 21+00.00

LIC-THORNWOOD

80
285

P:\PWP_dms08268\78116\X5001.dgn 02-SEP-2009 9:32AM jrllove

SEEDING
END SO.
WIDTH YDS.



| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

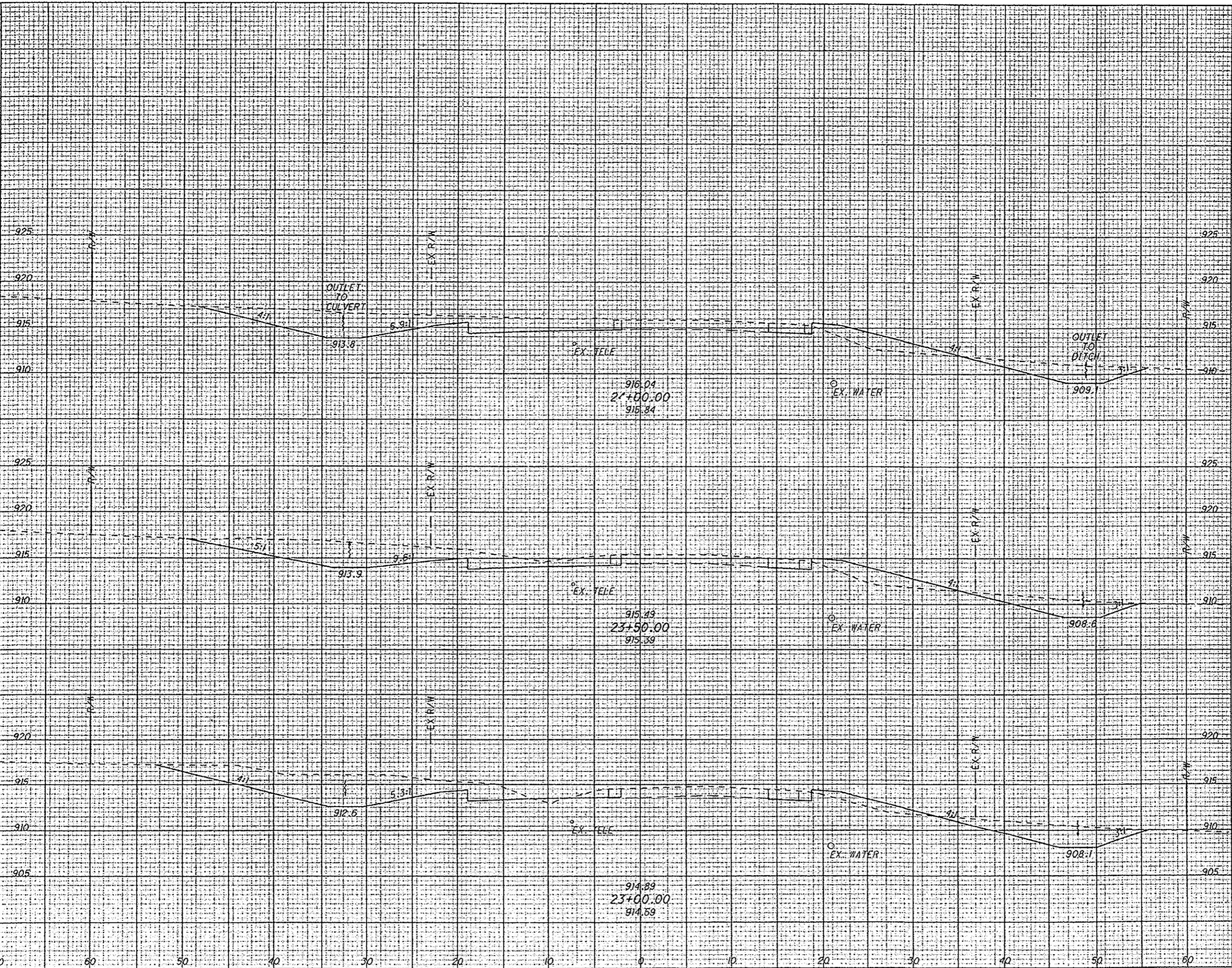
CALCULATED
MMB
CREATED
JEL

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

LIC-THORNWOOD

81
285

SEEDING
END SO.
WIDTH YDS.



| END AREA | VOLUME | CALCULATED | MMB | CHECKED | JEL |
|----------|--------|------------|-----|---------|-----|
| | | | | | |
| | | | | | |

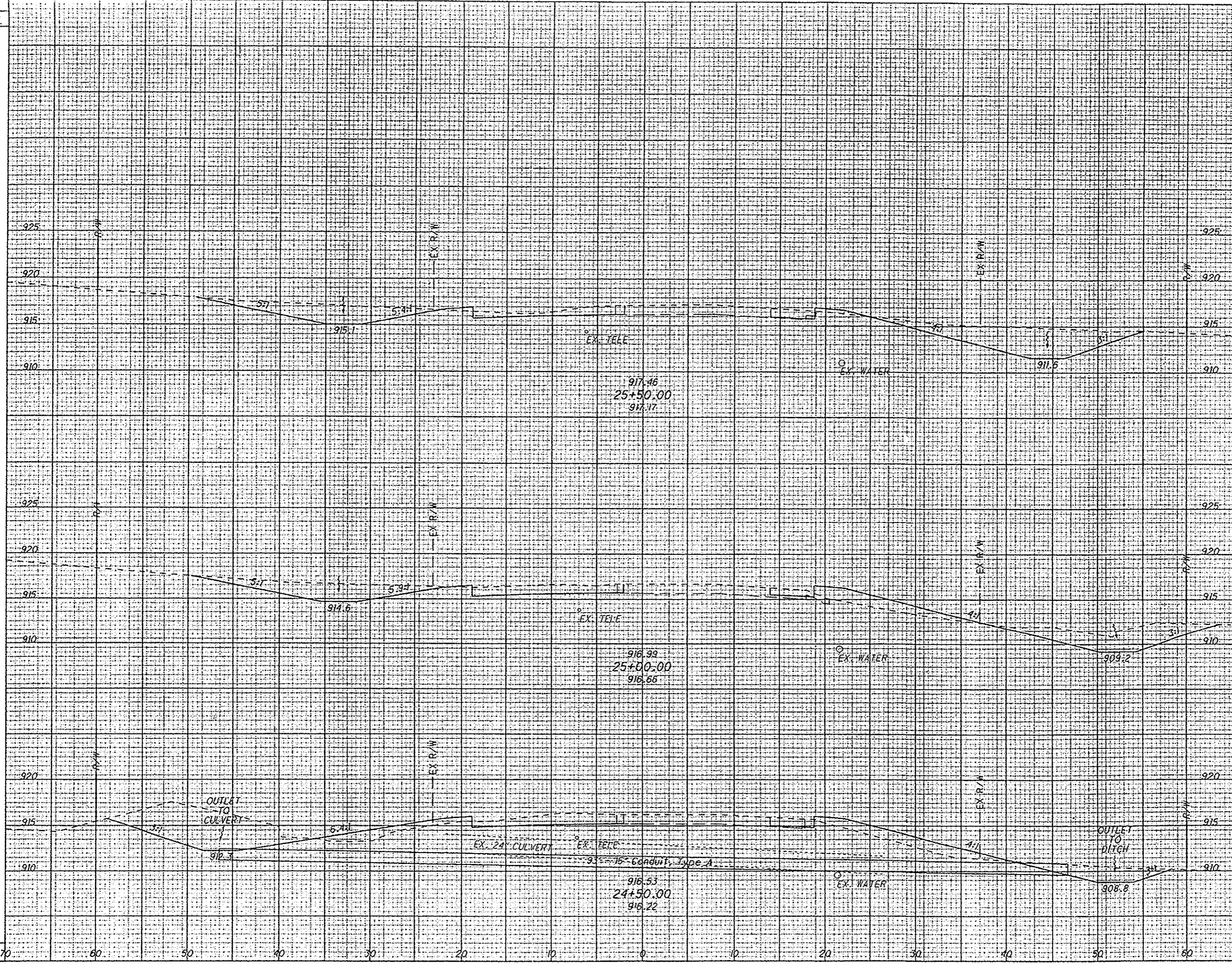
CROSS SECTIONS - THORNWOOD
STA. 23+00.00 TO STA. 24+00.00

LIC-THORNWOOD

SEEDING
END WIDTH SO. YOS.

END AREA VOLUME
OUT FILL OUT FILL
CALCULATED MMB DRECD JEL

P:\WP_dms08268\78116\S001.dgn 02-SEP-2009 9:32AM jrove

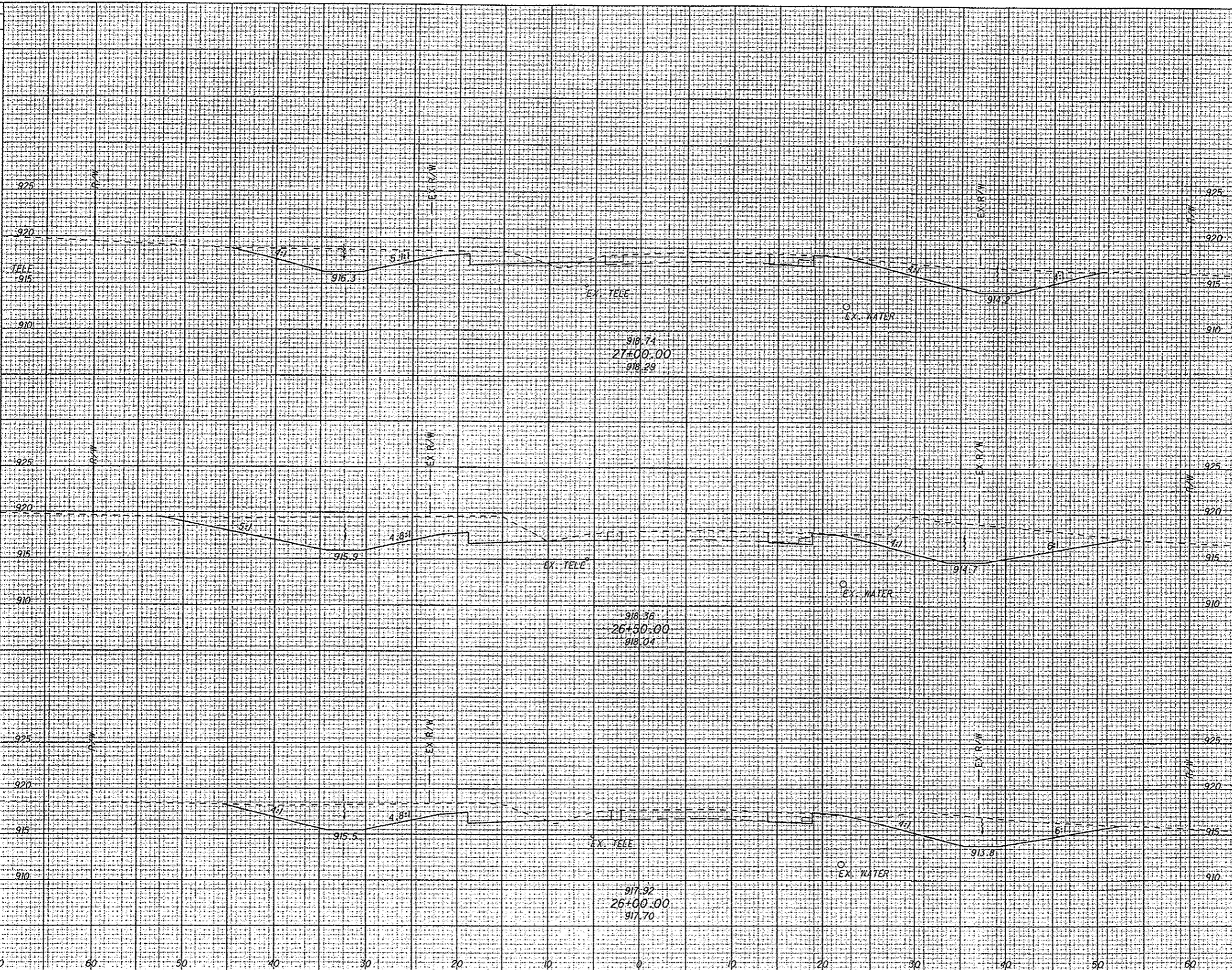


CROSS SECTIONS - THORNWOOD
STA. 24+50.00 TO STA. 25+50.00

LIC-THORNWOOD

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:33AM jrove

SEEDING
SQ. YDS.

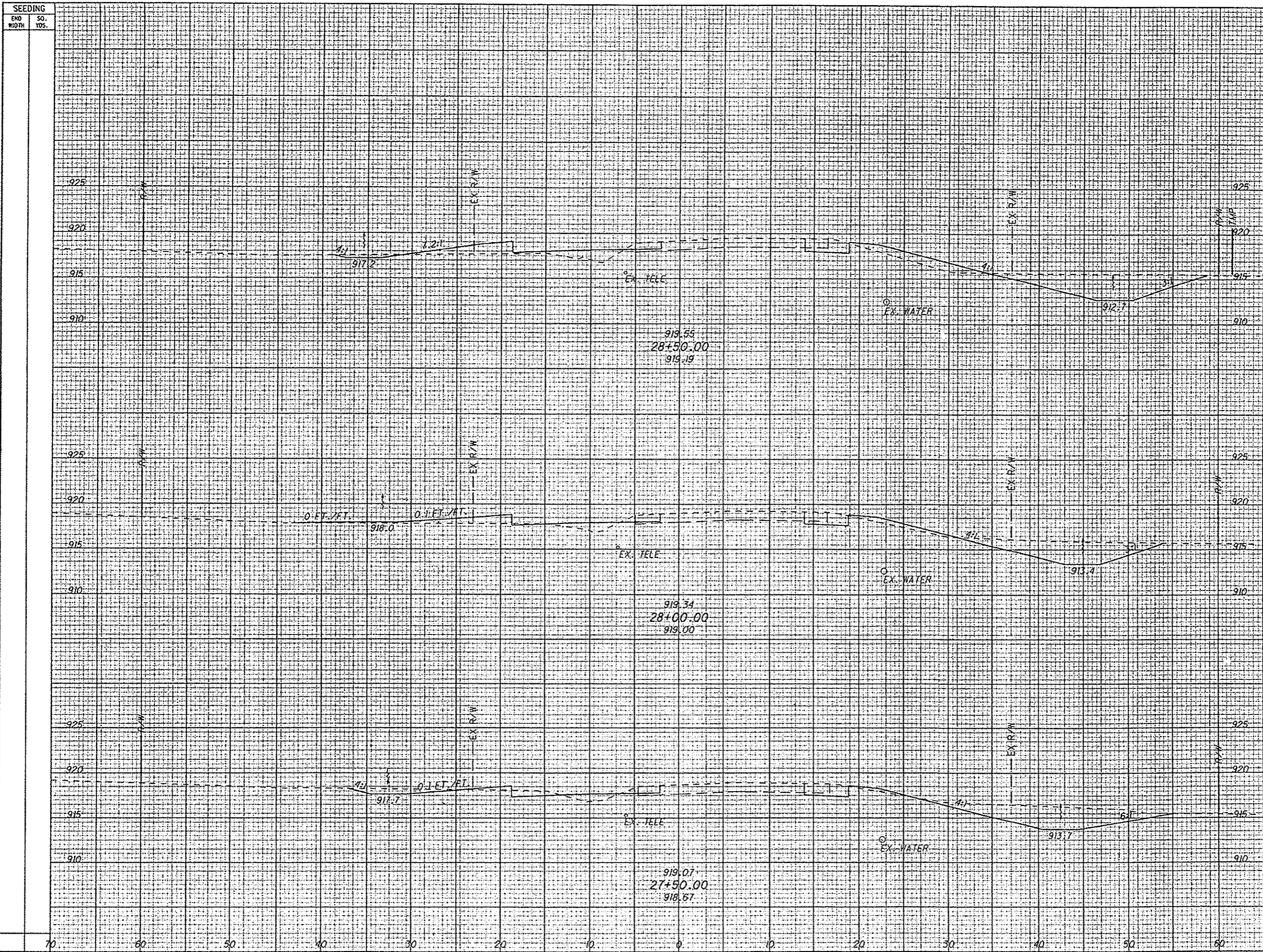


| END AREA | VOLUME | | CALCULATED | CHECKED | JEL |
|----------|--------|------|------------|---------|-----|
| | OUT | FILL | | | |
| | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:33AM jrove



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

| CALCULATED | MMB | CHECKED | JEL |
|------------|-----|---------|-----|
| | | | |

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

LIC-THORNWOOD

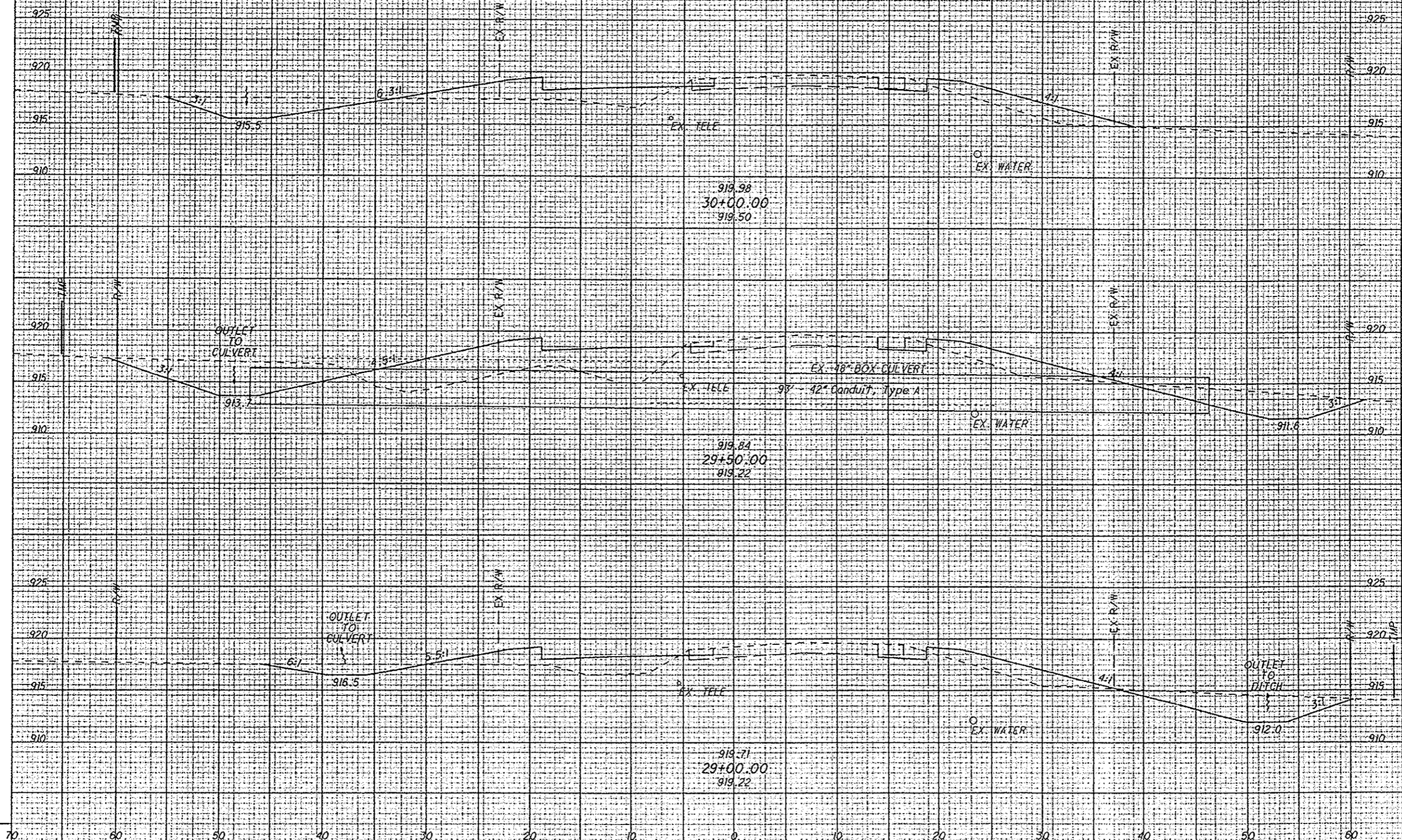
IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:33AM ftlove

SEEDING
END SO
WIDTH YDS.

END AREA
CUT FILL

VOLUME
CUT FILL

CALCULATED
MMB
CHECKED
JEL



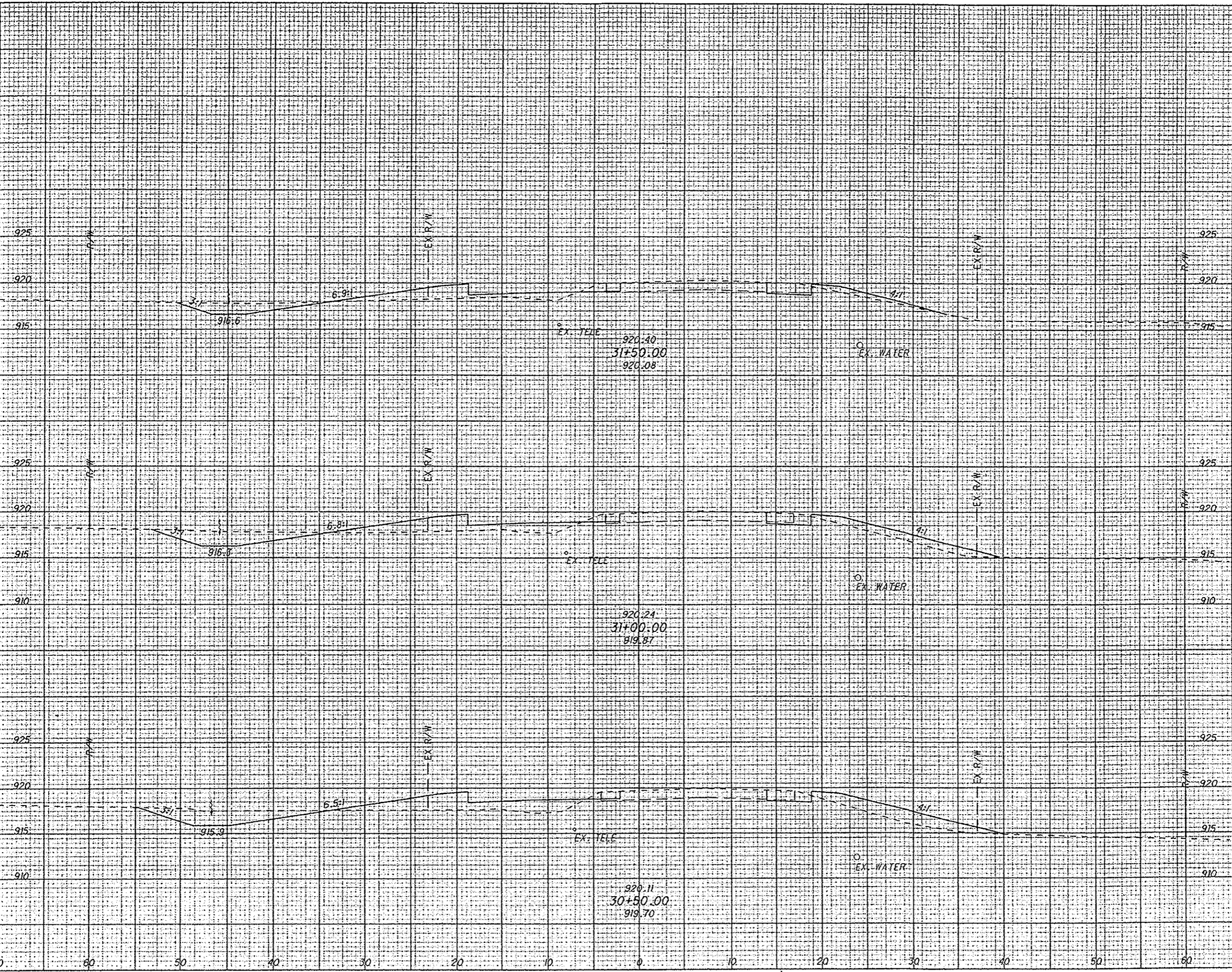
CROSS SECTIONS - THORNWOOD
STA. 29+00.00 TO STA. 30+00.00

LIC-THORNWOOD

86
285

IP_PWP.dms08268\78116\XSO01.dgn 02-SEP-2009 9:33AM jlove

SEEDING
END SO.
WIDTH NOS.



| END | AREA | | VOLUME | |
|-----|------|------|--------|------|
| | CUT | FILL | CUT | FILL |
| | | | | |

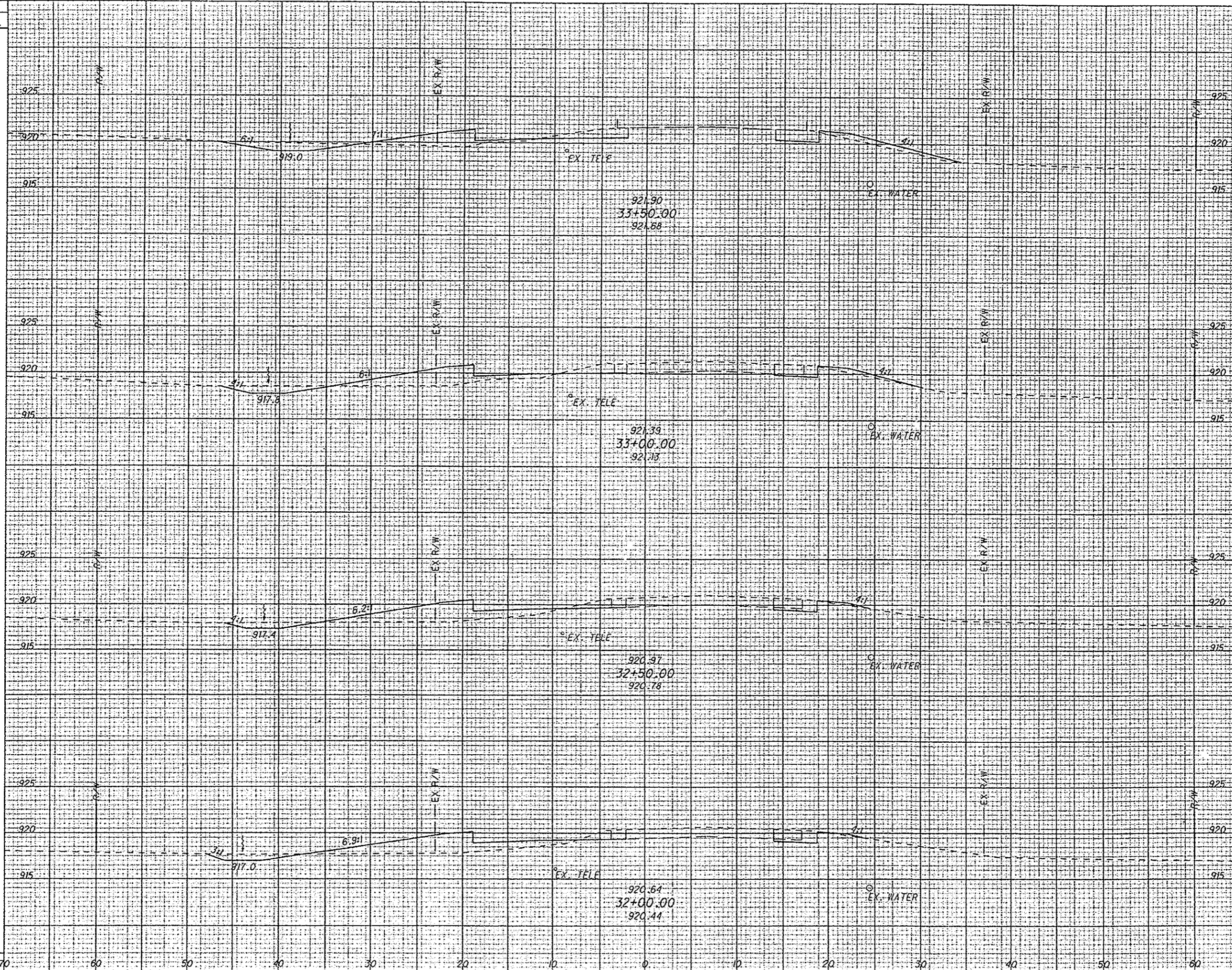
| CALCULATED | MMB | CHECKED | JEL |
|------------|-----|---------|-----|
| | | | |

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

LIC-THORNWOOD

SEEDING
END SO.
WIDTH YOS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB
CHECKED
JEL



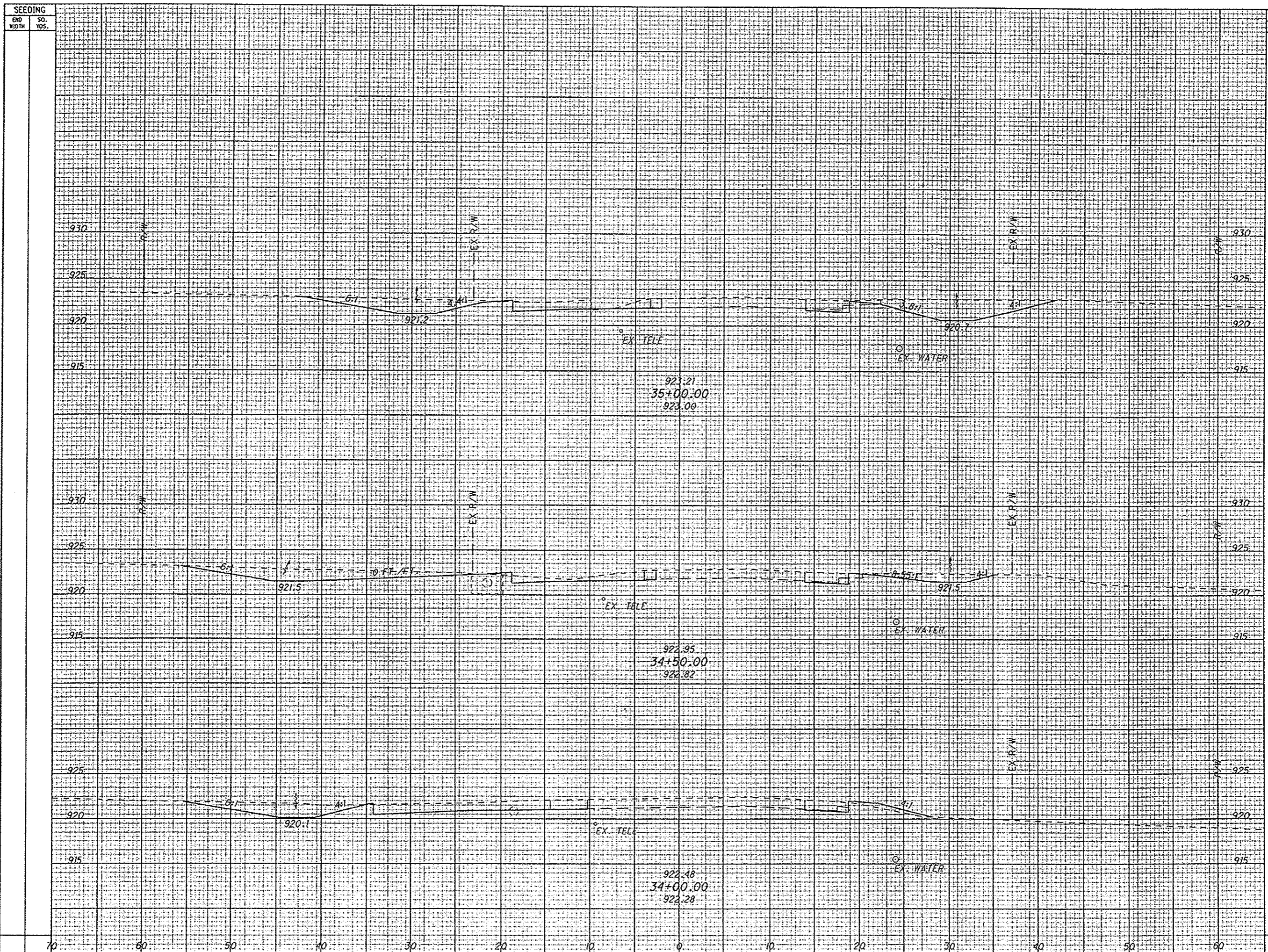
IP_PWP:dms08268\78116XS001.dgn 02-SEP-2009 9:33AM rlove

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

LIC-THORNWOOD

88
285

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:33AM flove



| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |

| END AREA | VOLUME | CALCULATED | MMB checked | JEL |
|----------|--------|------------|-------------|-----|
| | | | | |
| | | | | |

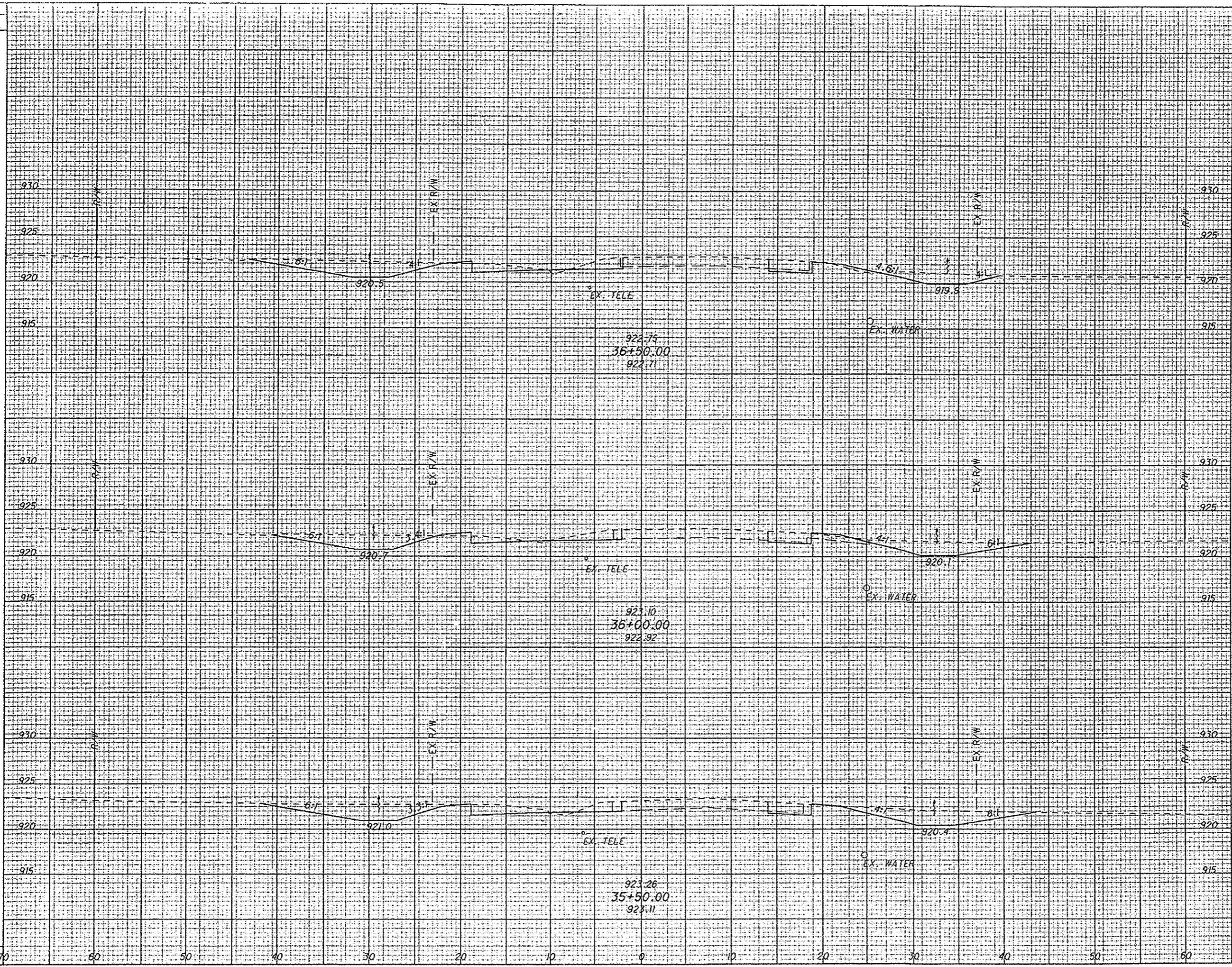
CROSS SECTIONS - THORNWOOD
 STA. 34+00.00 TO STA. 35+00.00

LIC-THORNWOOD

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB CHECKED
JEL

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:34AM Jrove

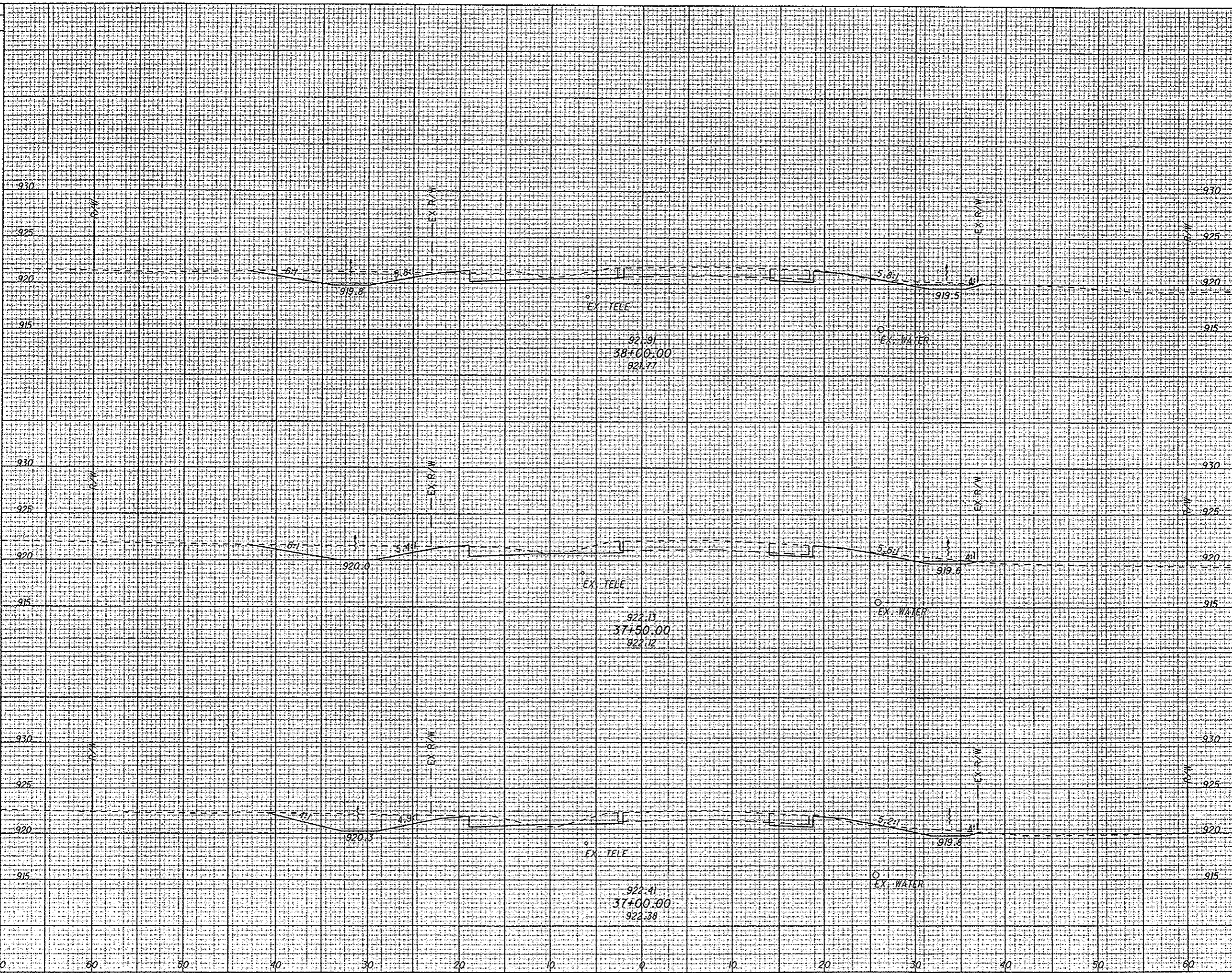


CROSS SECTIONS - THORNWOOD
STA. 35+50.00 TO STA. 36+50.00

LIC-THORNWOOD

P:\PWP.dms\08268\78116X5001.dgn 02-SEP-2009 9:34AM flove

SEEDING
END SO.
WIDTH YDS.



| END AREA | VOLUME | | CALCULATED | CHECKED | JEL |
|----------|--------|------|------------|---------|-----|
| | CUT | FILL | | | |
| | | | | | |

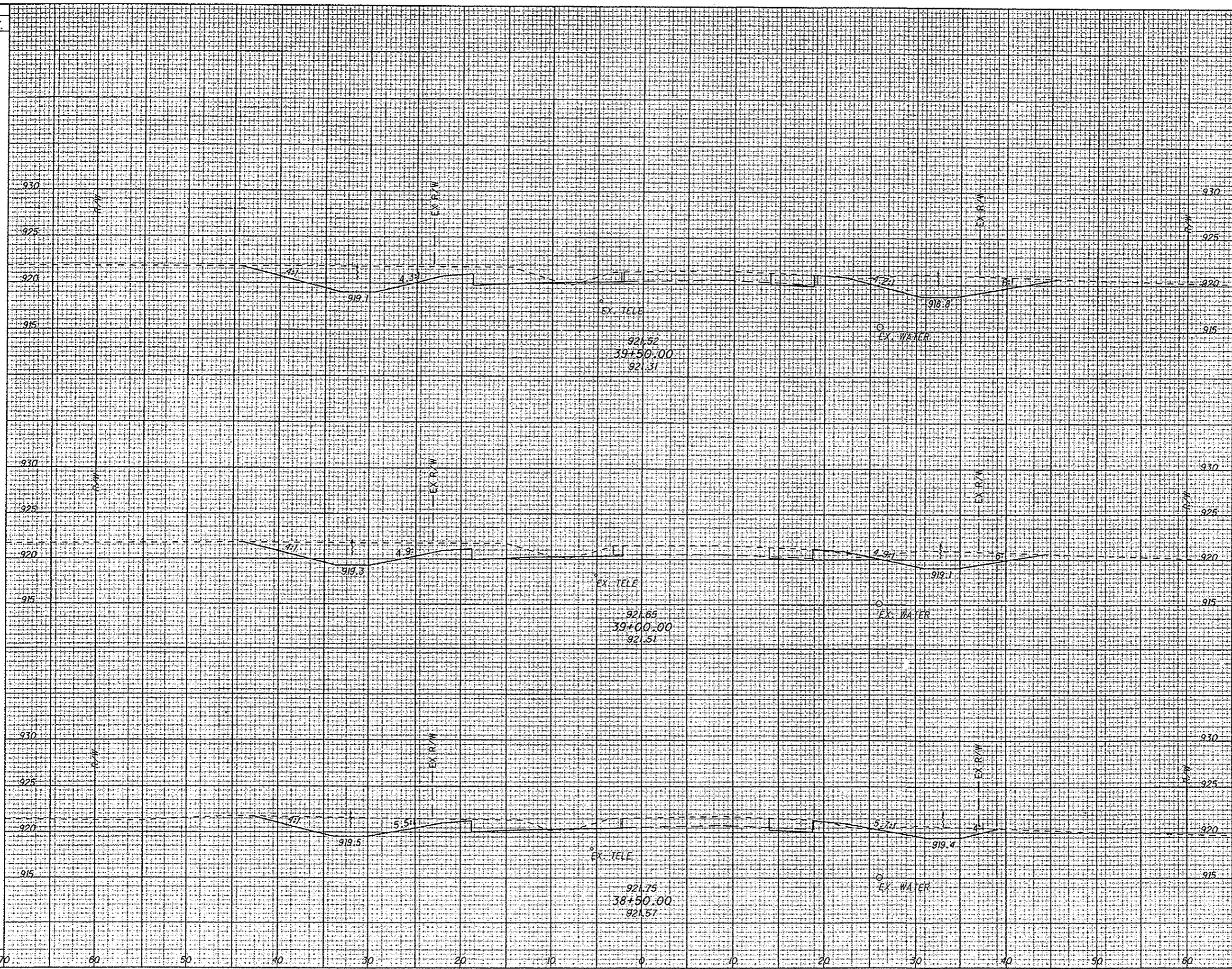
CROSS SECTIONS - THORNWOOD
STA. 37+00.00 TO STA. 38+00.00

LIC-THORNWOOD

IP_PWP:dms08268\78116X5001.dgn 02-SEP-2009 9:34AM flove

SEEDING
EXD WIDTH SQ. YDS.

| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

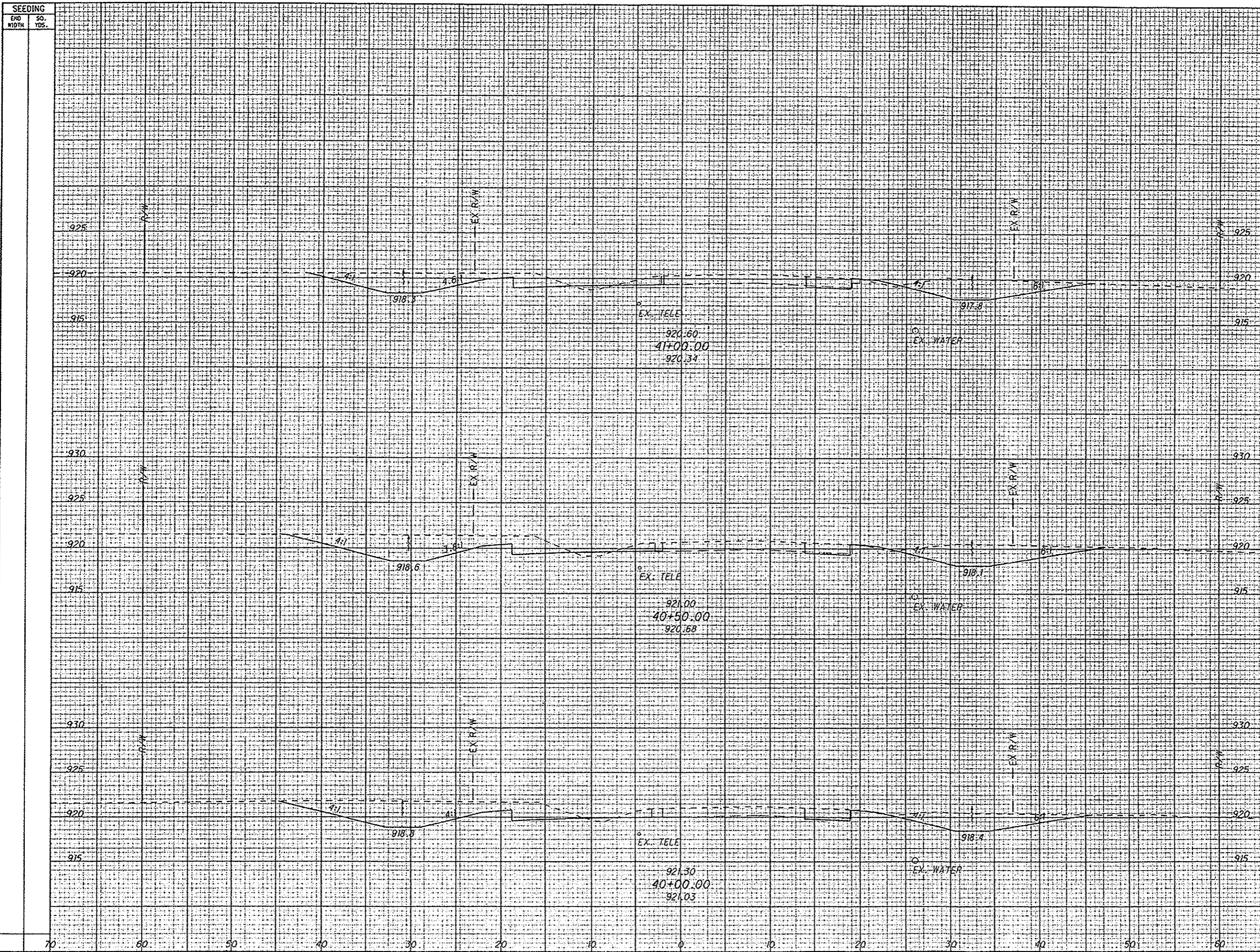


CROSS SECTIONS - THORNWOOD
STA. 38+50.00 TO STA. 39+50.00

LIC-THORNWOOD

92
285

IP_PWP.dms08268\78116\S001.dgn 02-SEP-2009 9:34AM flove



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

CALCULATED
 MMB
 CHECKED
 JEL

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

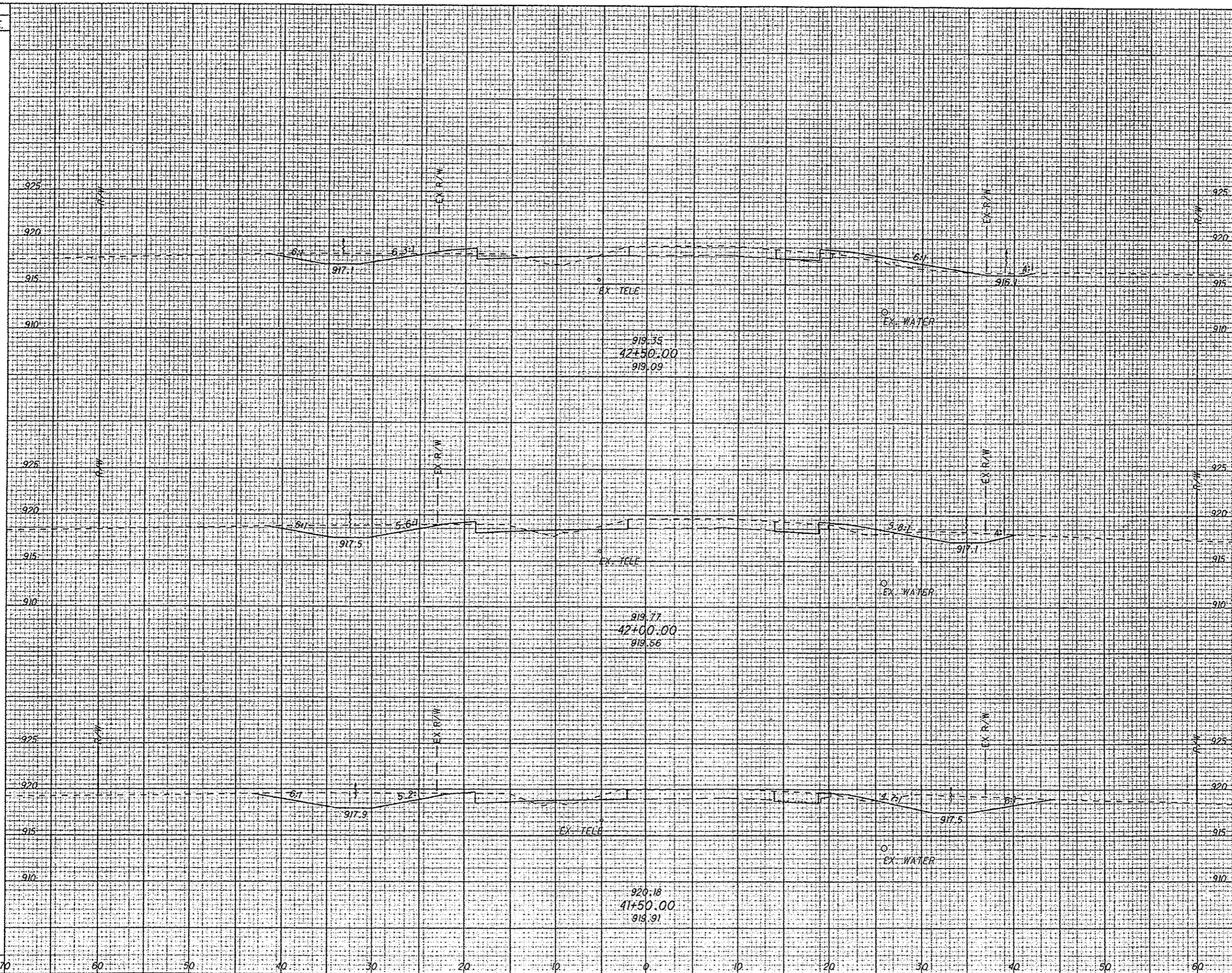
LIC-THORNWOOD

93
285

IP_PWP.dms08268\78116\5001.dgn 02-SEP-2009 9:34AM Flove

SEEDING
END SO.
WIDTH YDS.

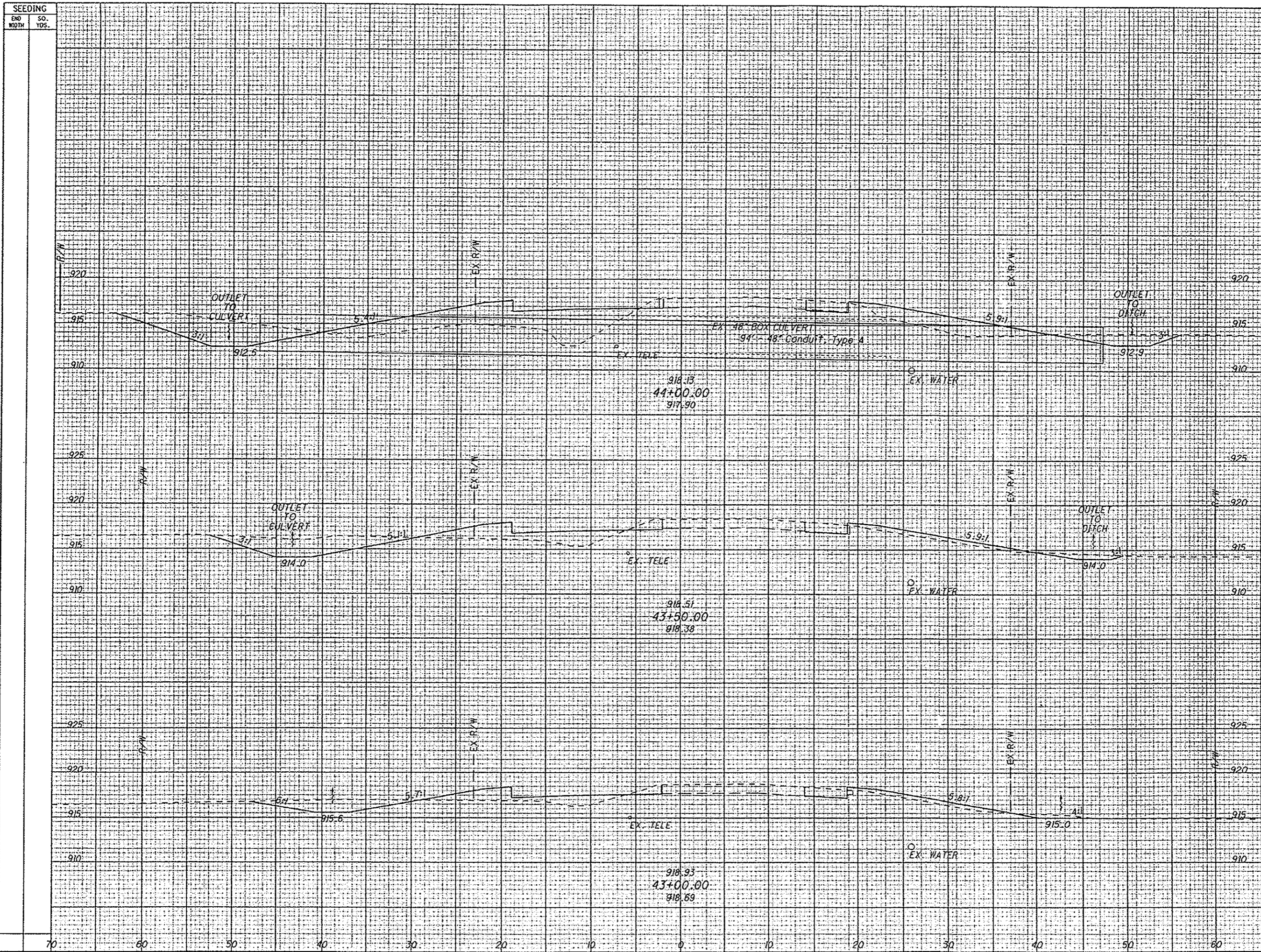
END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB
CHECKED
JEL



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

LIC-THORNWOOD

P:\PWP_dms08268\78116X5001.dgn 02-SEP-2009 9:34AM jlove



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

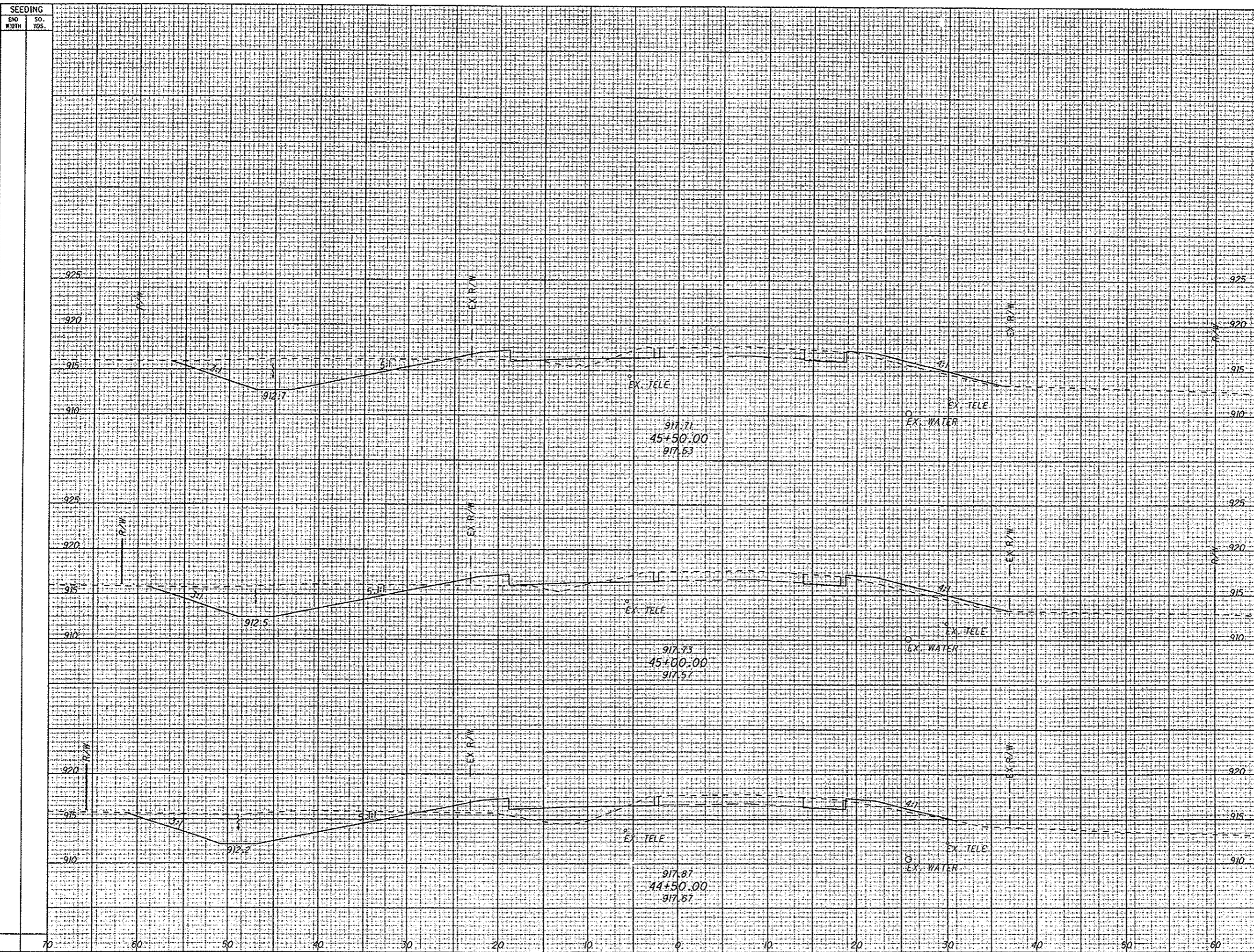
CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

95
285

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:34AM jlove



| END AREA | VOLUME | CALCULATED | |
|----------|--------|------------|------|
| | | CUT | FILL |
| | | | |

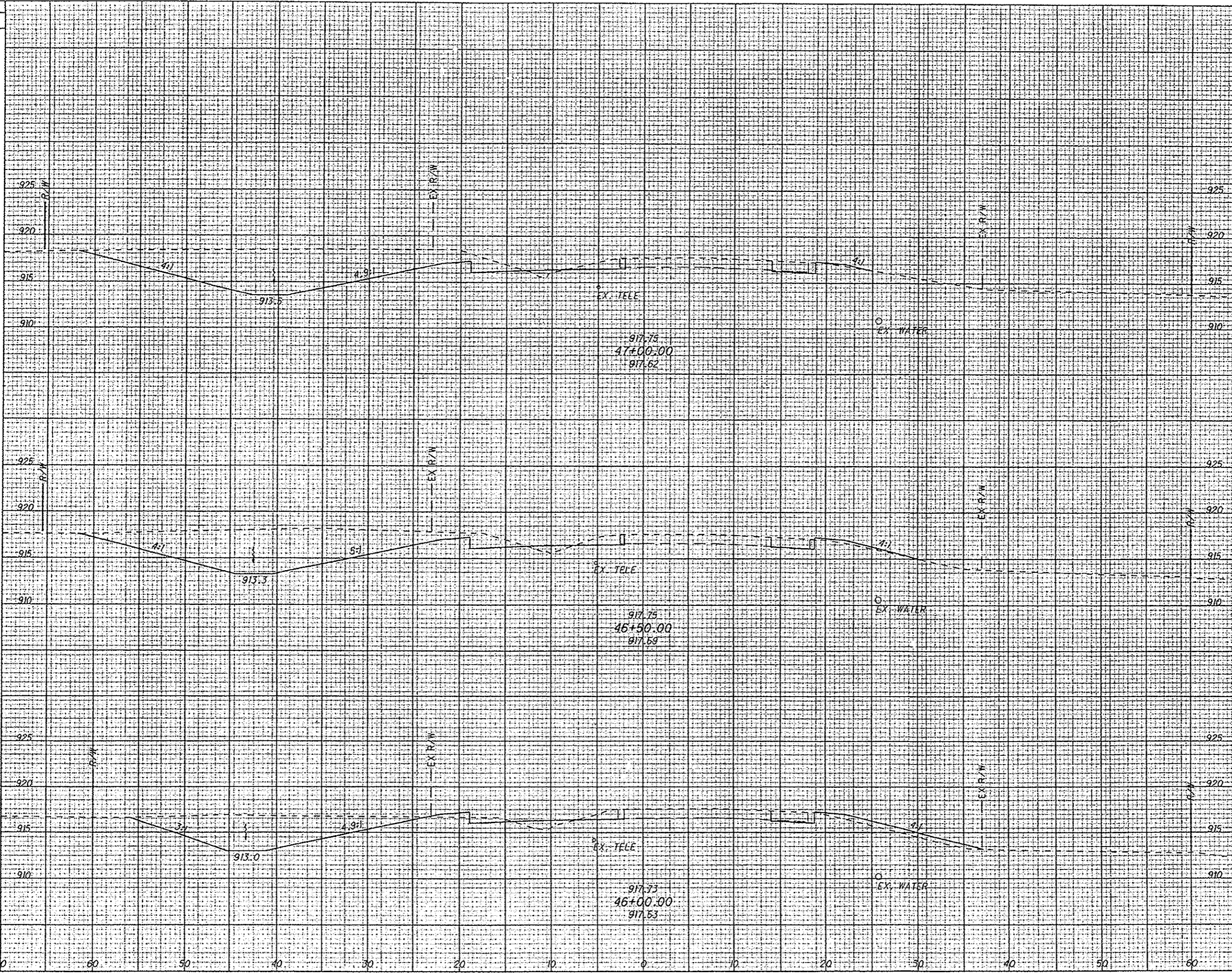
CROSS SECTIONS - THORNWOOD
STA. 44+50.00 TO STA. 45+50.00

LIC-THORNWOOD

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB CHECKED
JEL

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:35AM jrove



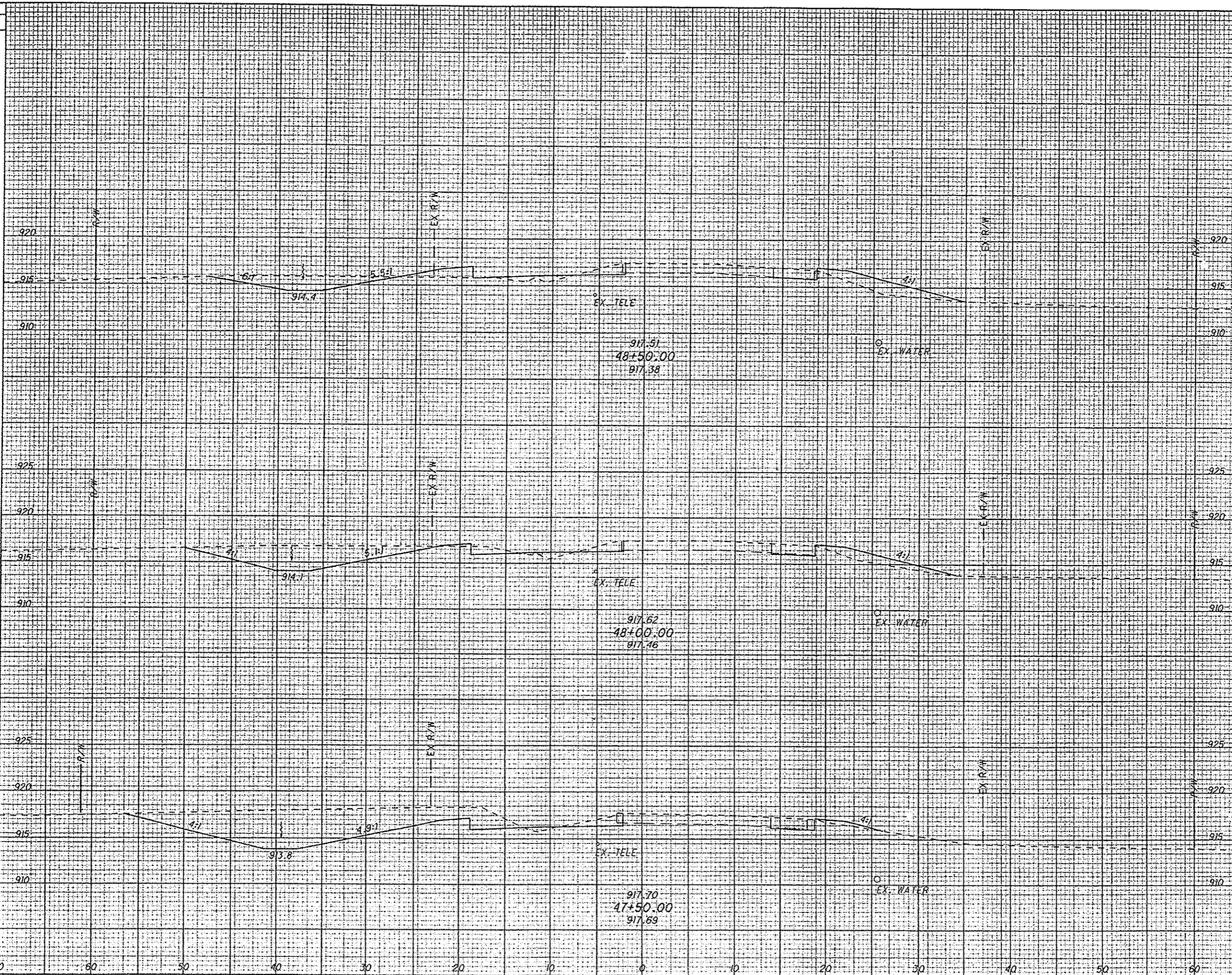
CROSS SECTIONS - THORNWOOD
STA. 46+00.00 TO STA. 47+00.00

LIC-THORNWOOD

97
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:35AM jlove

SEEDING
END SO.
WIDTH NOS.



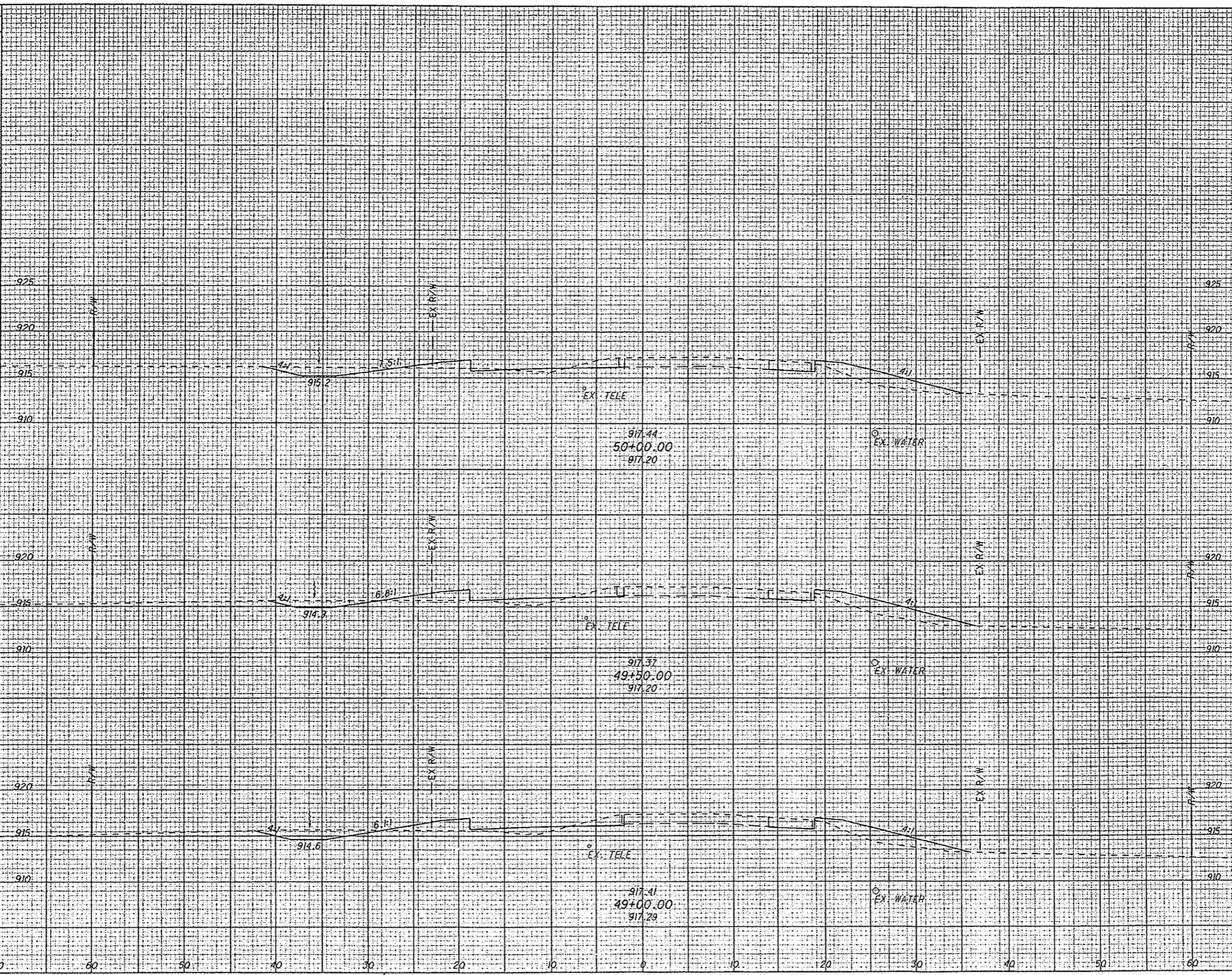
| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| OUT | FILL | OUT | FILL | | |
| | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:35AM jlove

SEEDING
END SO.
WIDTH YDS.



| END | AREA | | VOLUME | |
|-----|------|------|--------|------|
| | CUT | FILL | CUT | FILL |
| | | | | |

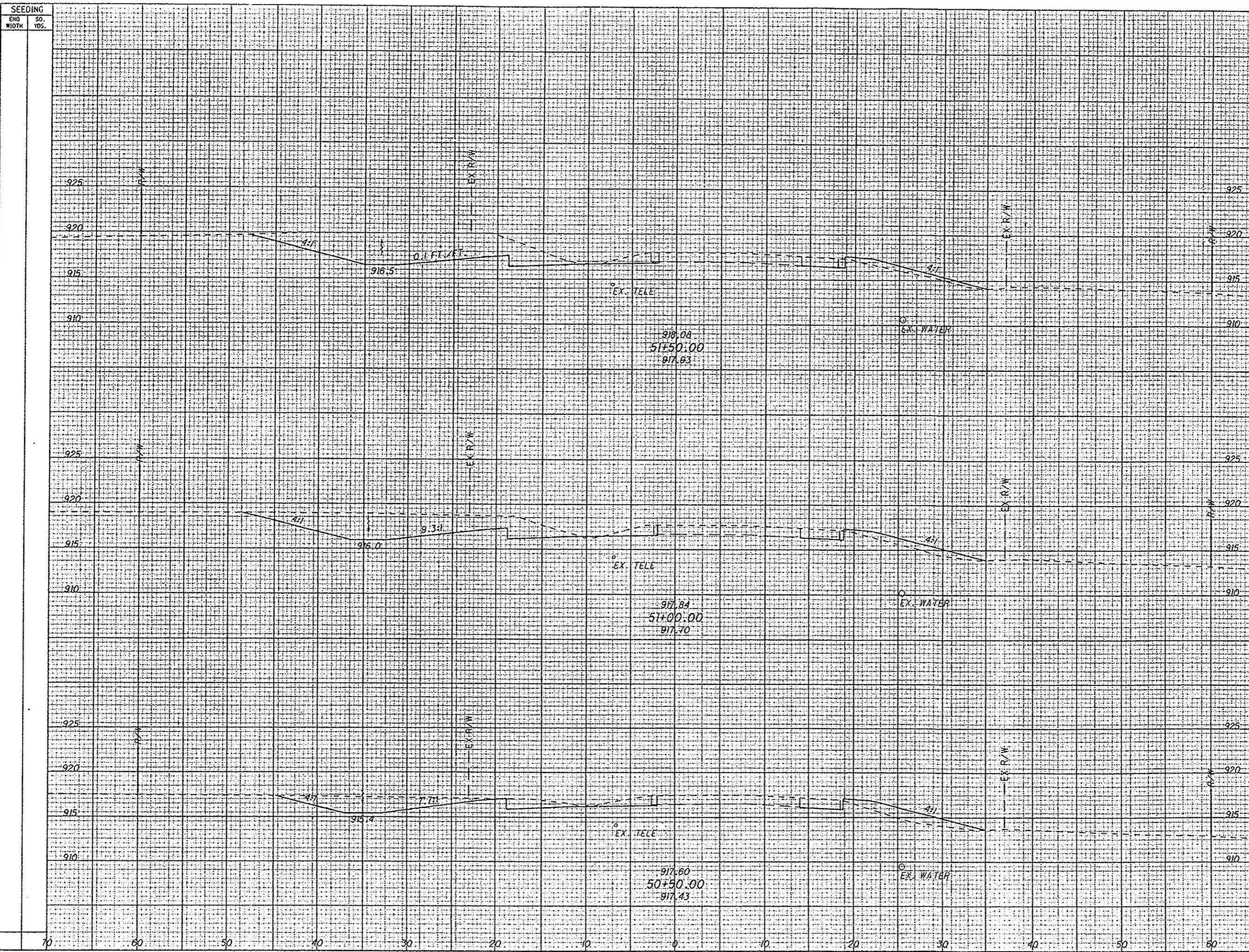
CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

99
285

P:\PIP.dms\08268\78116\S001.dgn_02 - SEP - 2009 9:35AM jrlv

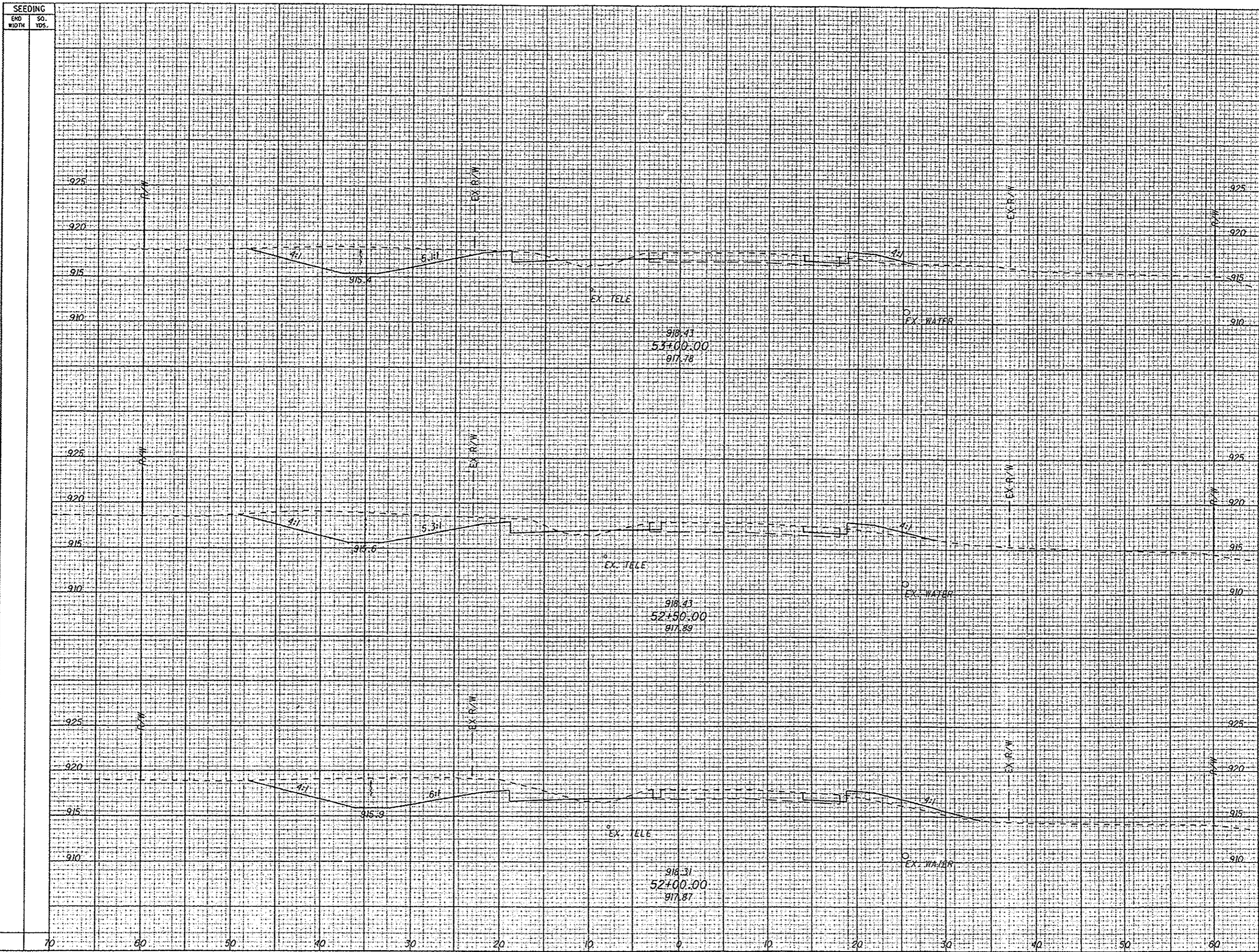


| END AREA | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|--------|------|------------|-----|---------|-----|
| | CUT | FILL | | | | |
| | | | | | | |

CROSS SECTIONS - THORNWOOD
STA. 50+50.00 TO STA. 51+50.00

LIC-THORNWOOD
100
285

P:\WP\dms08268\78116XS001.dgn 02-SEP-2009 9:35AM jrllove



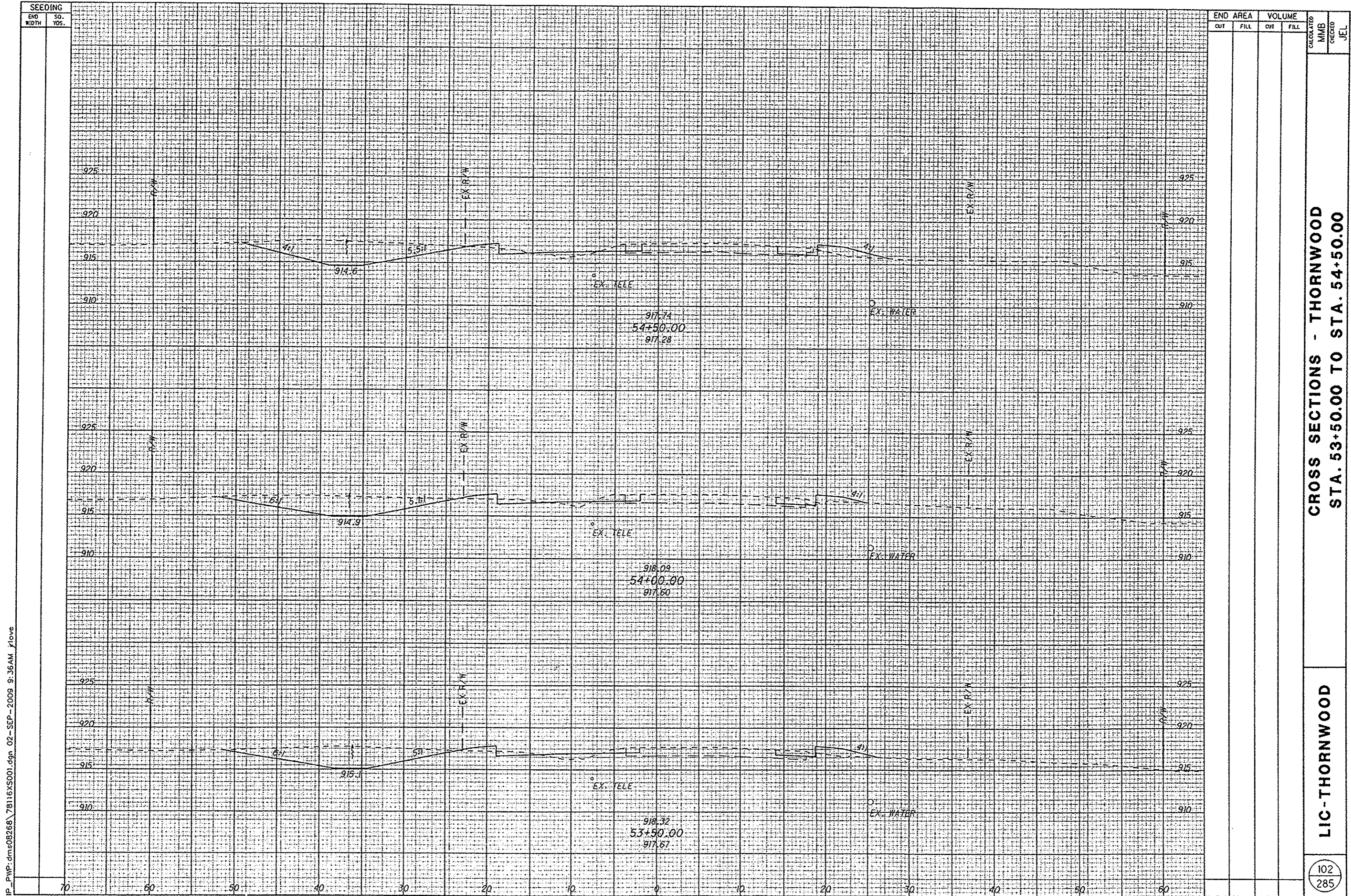
| SEEDING | | END AREA | | VOLUME | |
|-----------|----------|----------|------|--------|------|
| END WIDTH | SO. YDS. | CUT | FILL | CUT | FILL |
| | | | | | |

CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

101
285



P:\PWP\dms08268\78116XS001.dgn 02-SEP-2009 9:36AM jlove

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

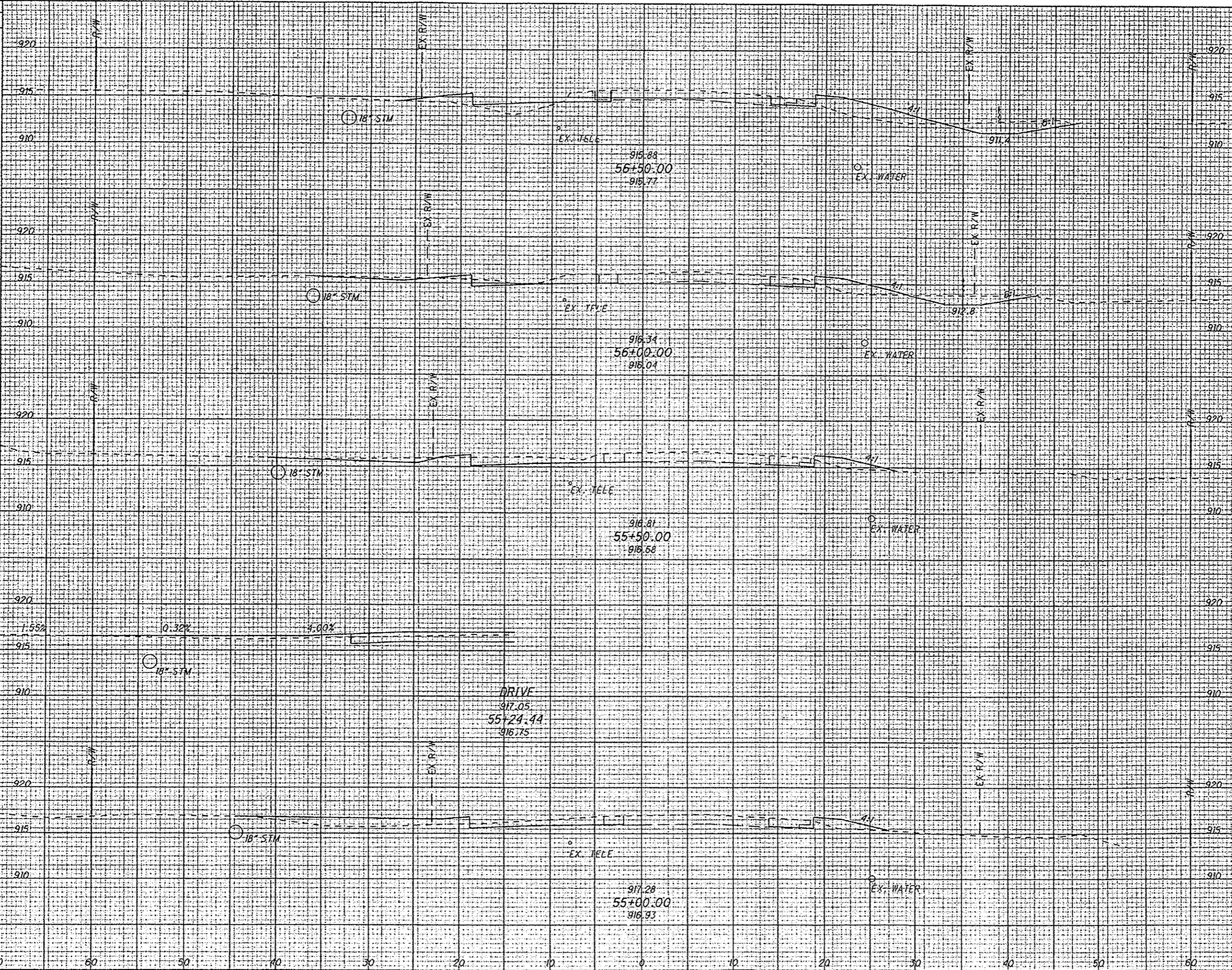
CROSS SECTIONS - THORNWOOD
STA. 53+50.00 TO STA. 54+50.00

LIC-THORNWOOD

IP_P:\WP_0ms08268\78116X5001.dgn 02-SEP-2009 9:36AM flove

SEEDING

END WIDTH SO. TOS.



| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |
| | | | |

CALCULATED
MMB
CHECKED
JEL

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

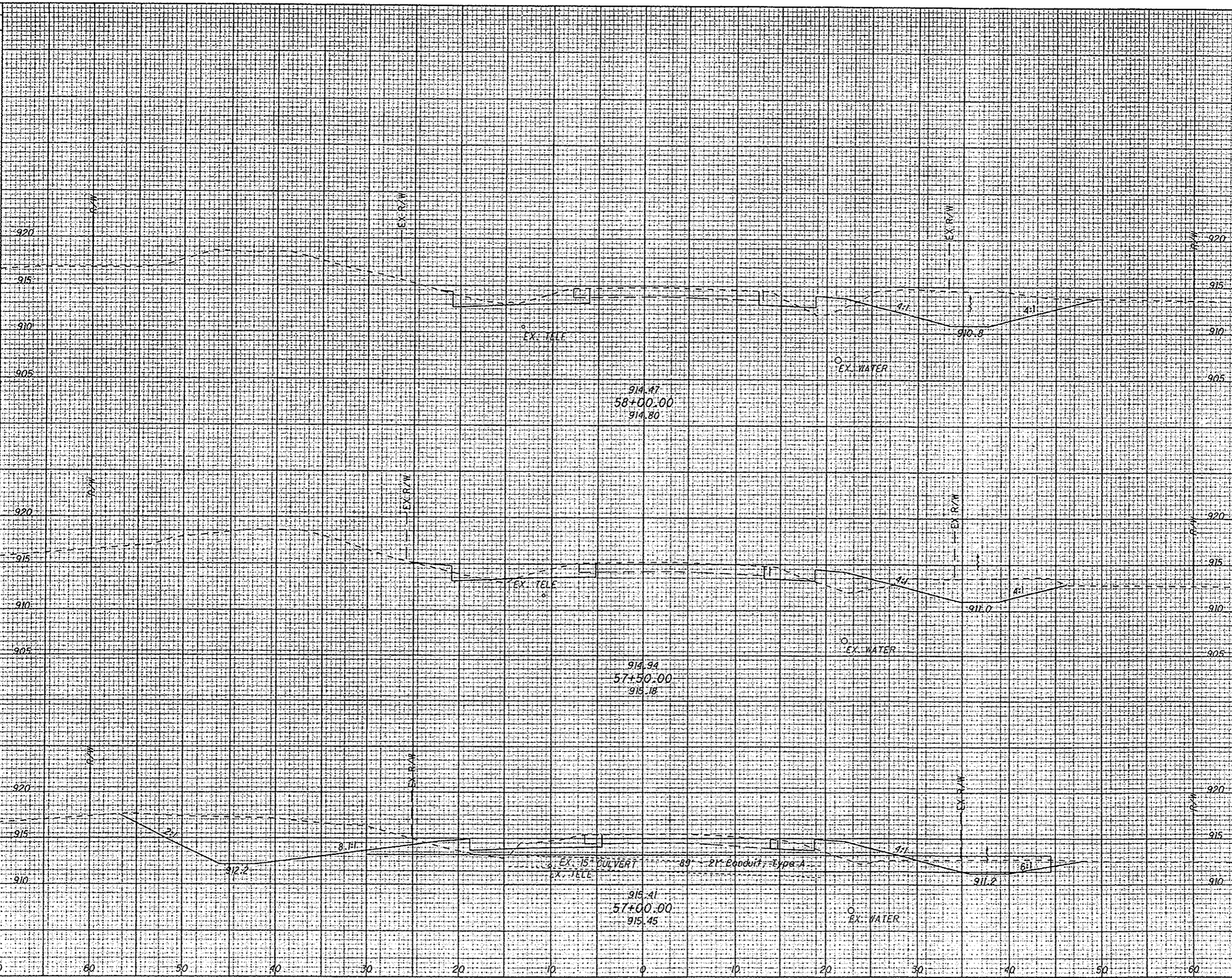
LIC-THORNWOOD

103
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:36AM Prove

SEEDING
END SO.
WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
CHECKED
MMB
JEL

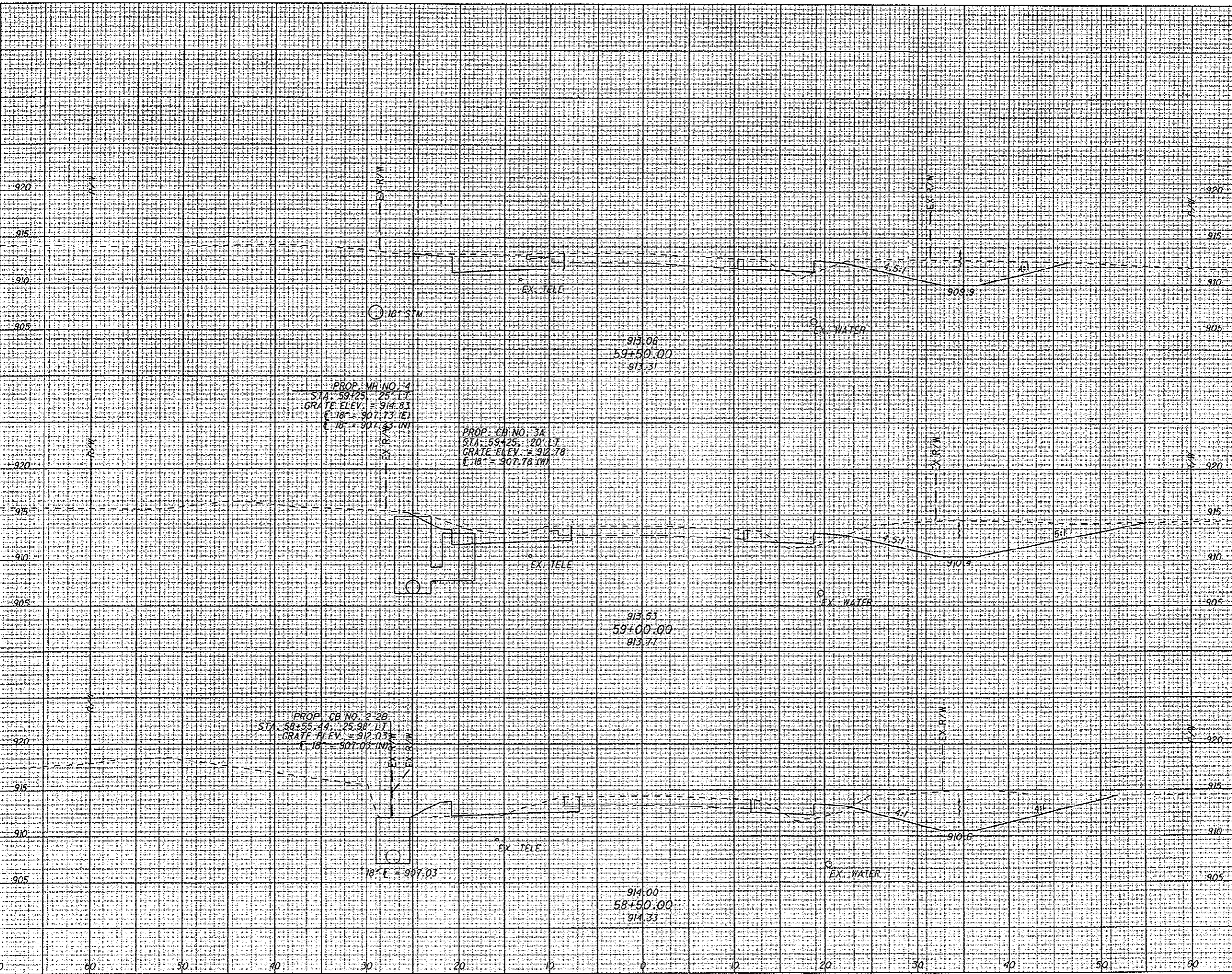


CROSS SECTIONS - THORNWOOD
STA. 57+00.00 TO STA. 58+00.00

LIC-THORNWOOD

104
285

SEEDING
END SO.
WIDTH TOS.



| END AREA | | VOLUME | | CALCULATED | MMD | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| OUT | FILL | OUT | FILL | | | | |
| | | | | | | | |

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

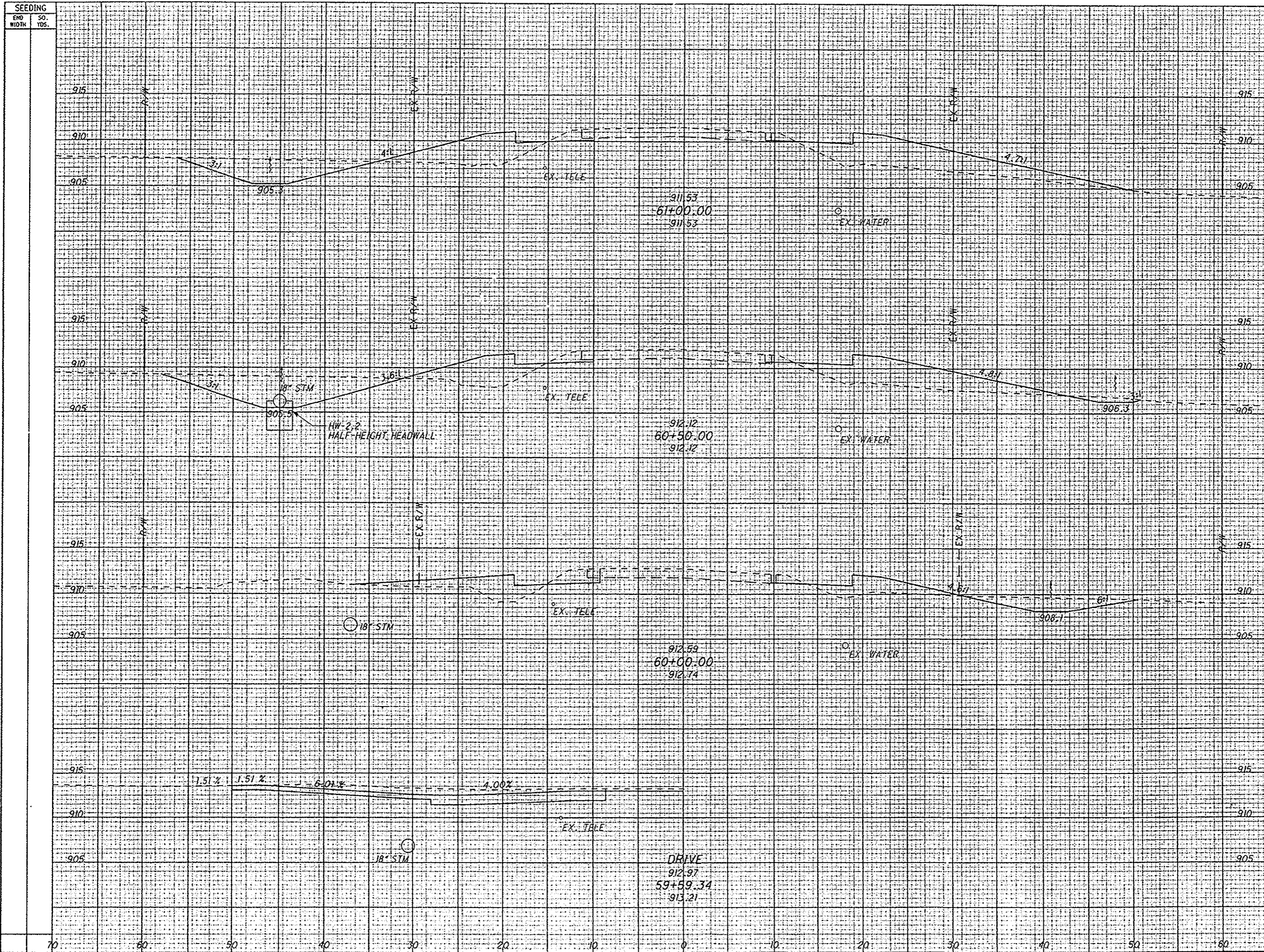
LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:36AM jlove

| SEEDING | |
|-----------|----------|
| END WIDTH | SO. TOS. |

| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |

| |
|------------|
| CALCULATED |
| MMB |
| ORDERED |
| JEL |



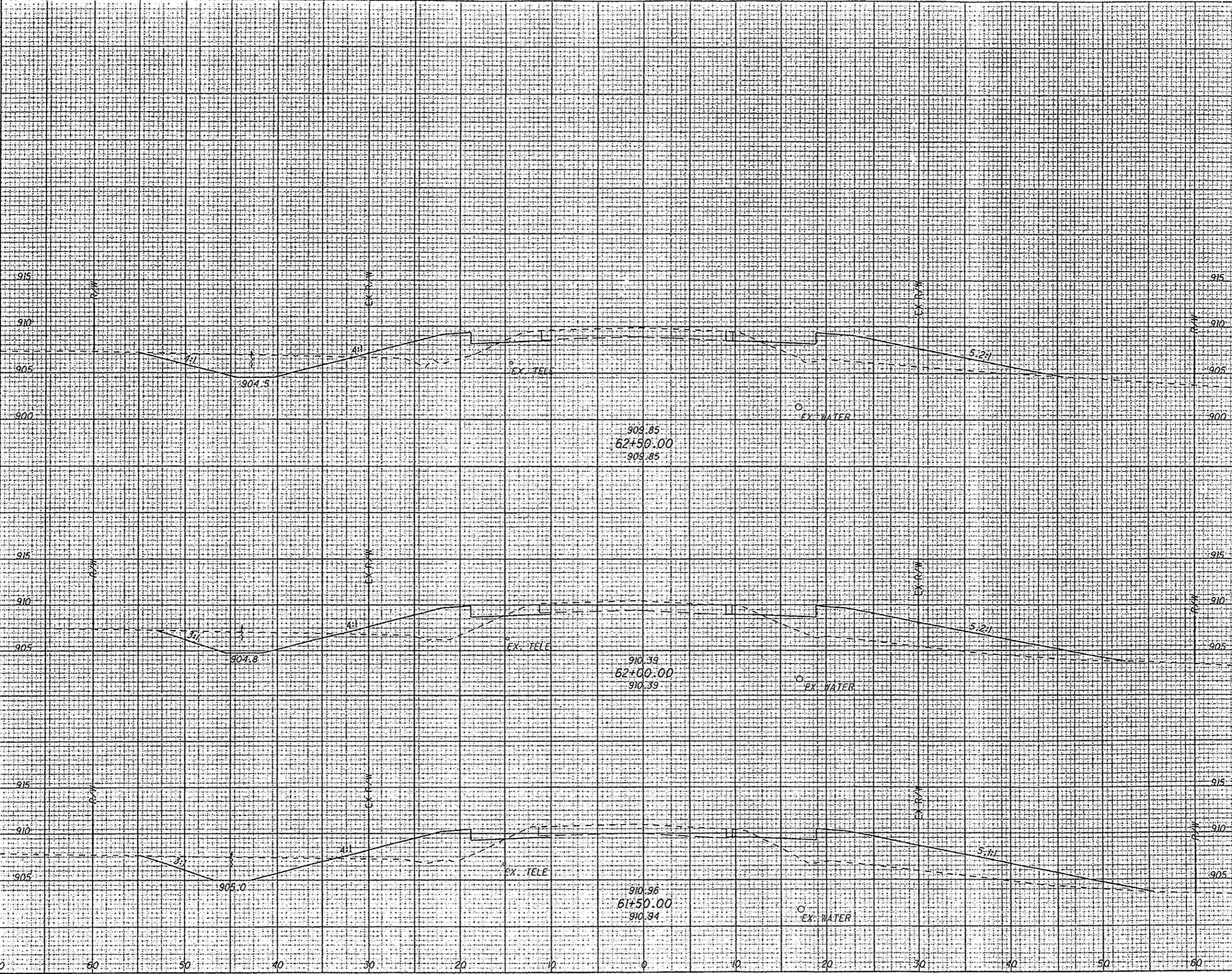
CROSS SECTIONS - THORNWOOD
 STA. 59+59.34 TO STA. 61+00.00

LIC - THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:36AM fprove

SEEING
END SO.
WIDTH YOS.

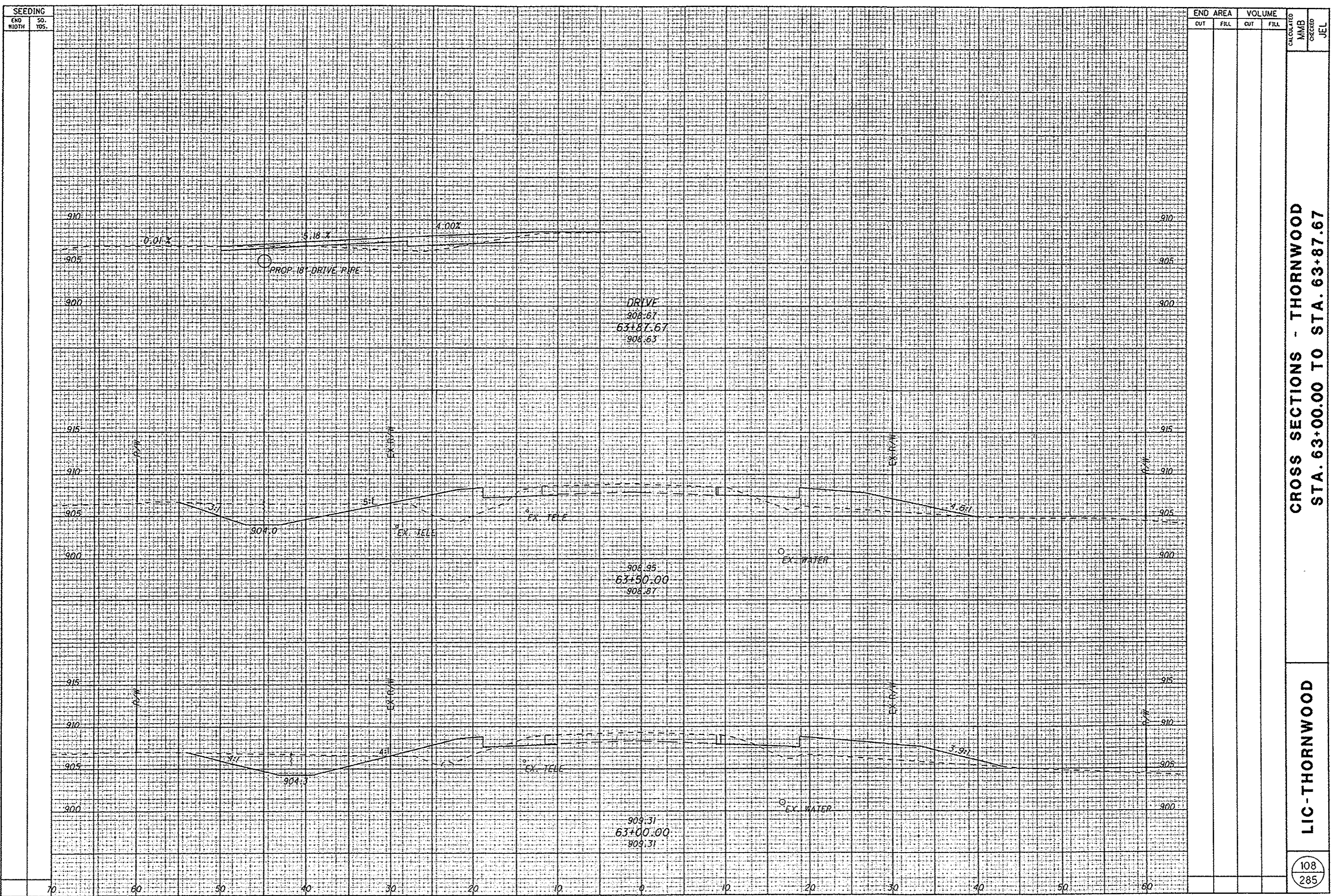
END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MINI
CHECKED
JEL



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

LIC-THORNWOOD

107
285



| SEEDING | |
|-----------|----------|
| END WIDTH | SO. TOS. |

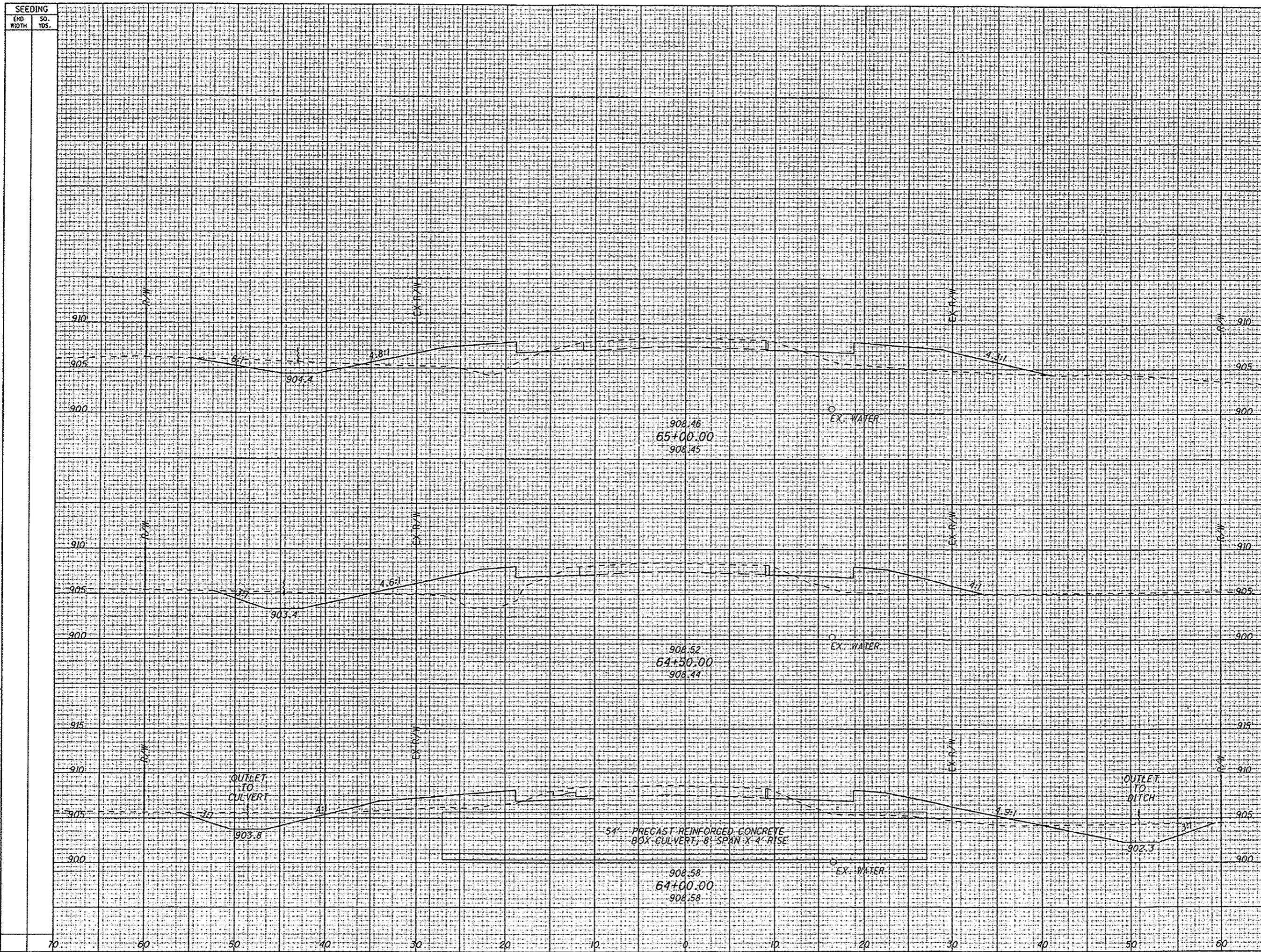
| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |

| CALCULATED | CHECKED |
|------------|---------|
| MMB | JEL |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:37AM jlove



| SEEDING | | END AREA CUT | END AREA FILL | VOLUME | |
|--------------|-------------|-----------------|------------------|--------|------|
| END RIPTH | SO. YDS. | | | CUT | FILL |

| CALCULATED MMB | CHECKED JEL | END AREA | VOLUME |
|-------------------|----------------|----------|--------|
| | | CUT | FILL |

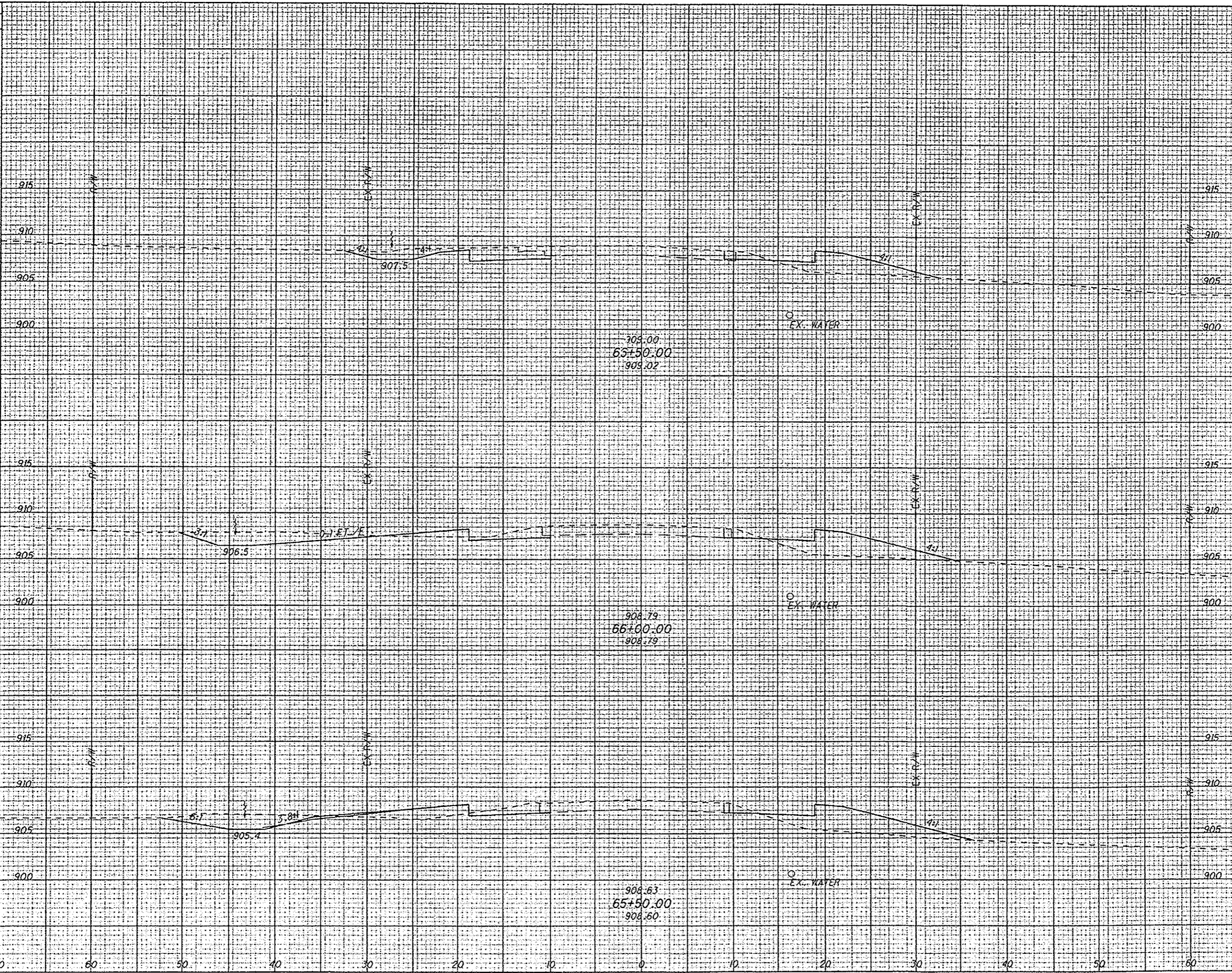
CROSS SECTIONS - THORNWOOD
STA. 64+00.00 TO STA. 65+00.00

LIC-THORNWOOD

IP_PWP.dms08288\78116XS001.dgn 02-SEP-2009 9:37AM jlove

SEEDING

END SO. NO. WIDTH YOS.



| END | AREA | | VOLUME | |
|-----|------|------|--------|------|
| | OUT | FILL | OUT | FILL |
| | | | | |

CALCULATED
MMB
CREATED
JEL

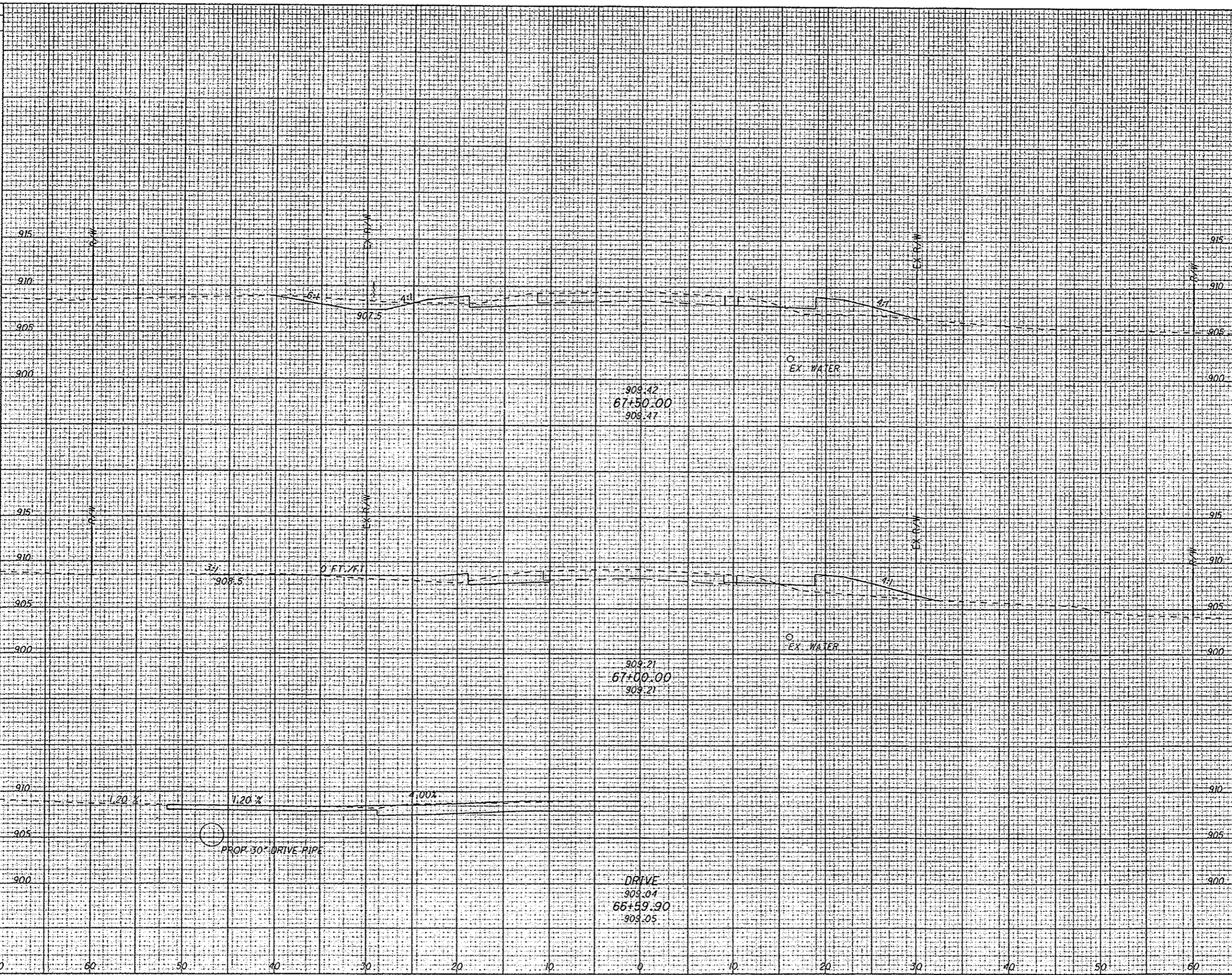
**CROSS SECTIONS - THORNWOOD
STA. 65+50.00 TO STA. 66+50.00**

LIC-THORNWOOD

110
285

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:37AM jlove

SEEDING
END SO
WIDTH YDS.



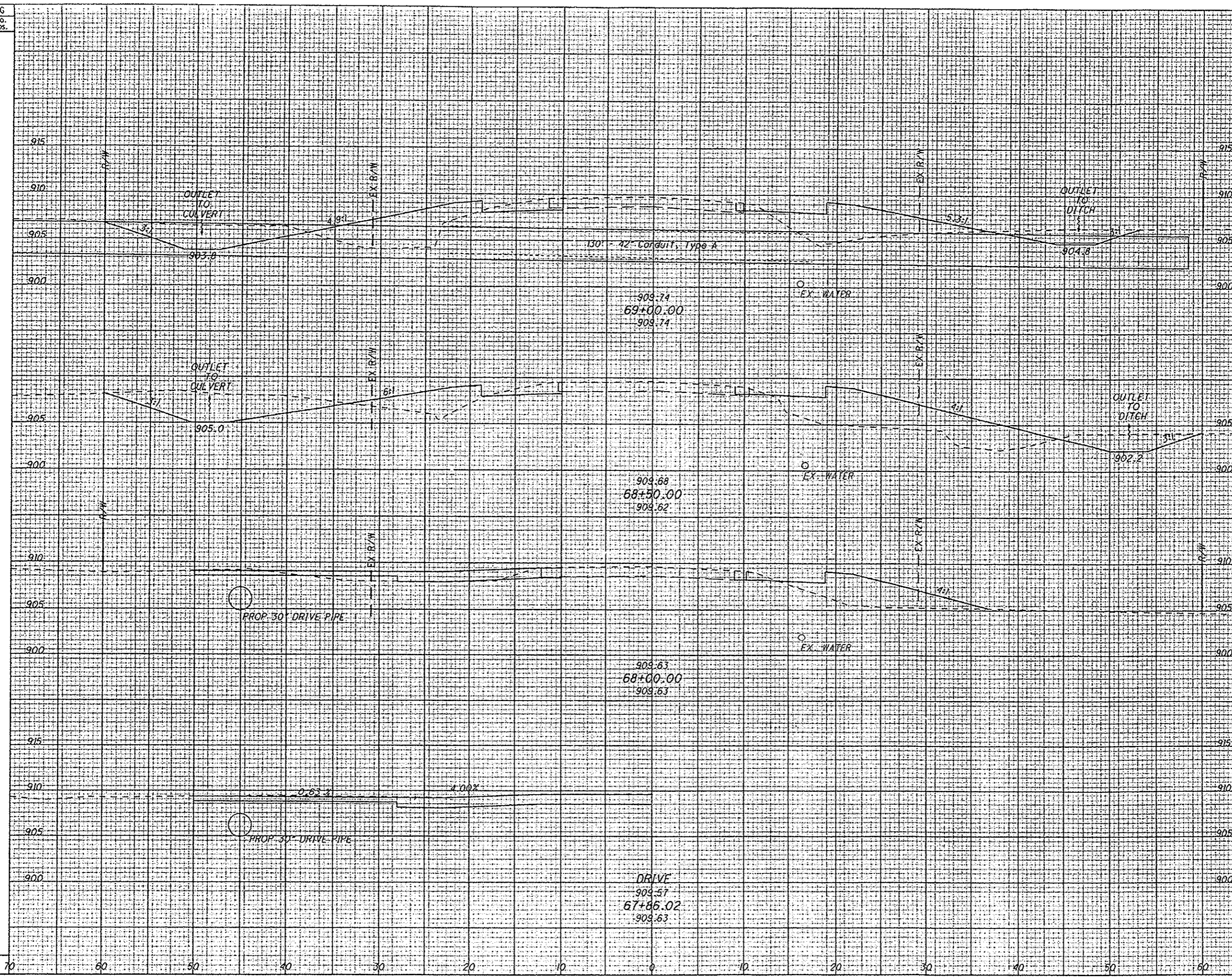
| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:37AM jlove

SEEDING
END WIDTH SO. YDS.



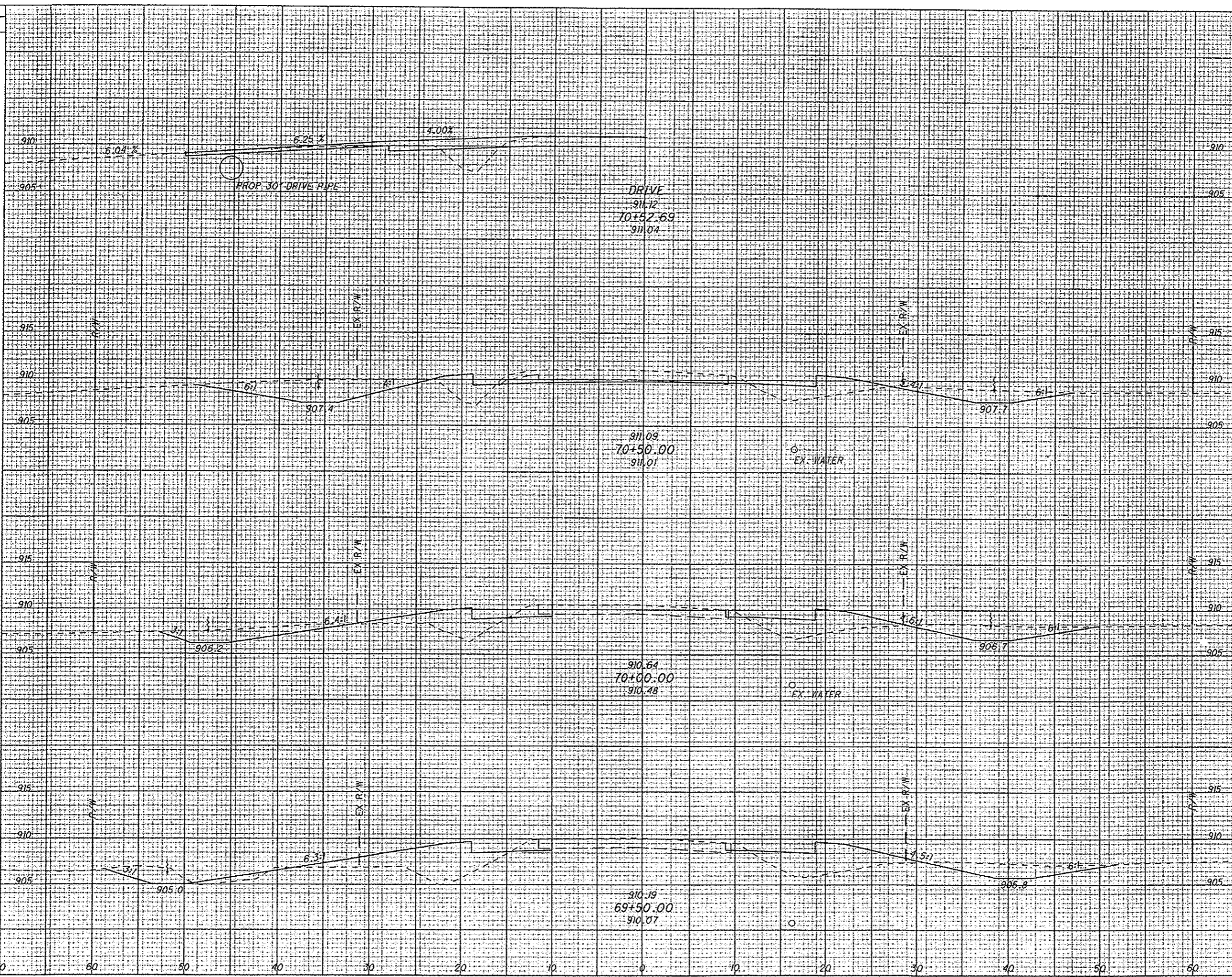
| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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

LIC-THORNWOOD

P:\PWP.dms\08268\7816XS001.dgn_02-SEP-2009 9:37AM jlove

SEEDING
END SO.
NORTH YDS.



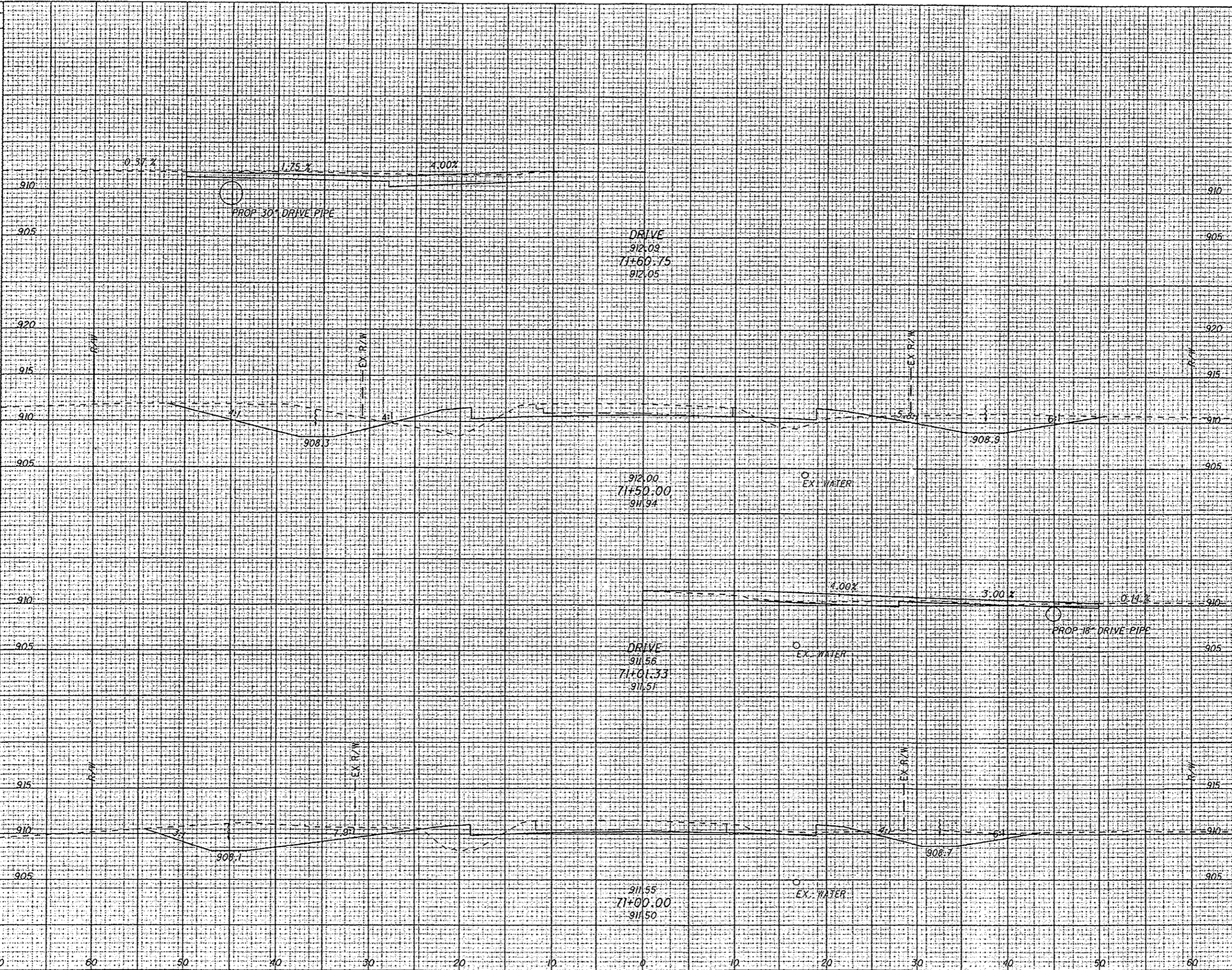
| END AREA | VOLUME | | CALCULATED | CHECKED | JEL |
|----------|--------|------|------------|---------|-----|
| | CUT | FILL | | | |
| | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:38AM jlove

SEEDING
END SQ.
WIDTH YDS.



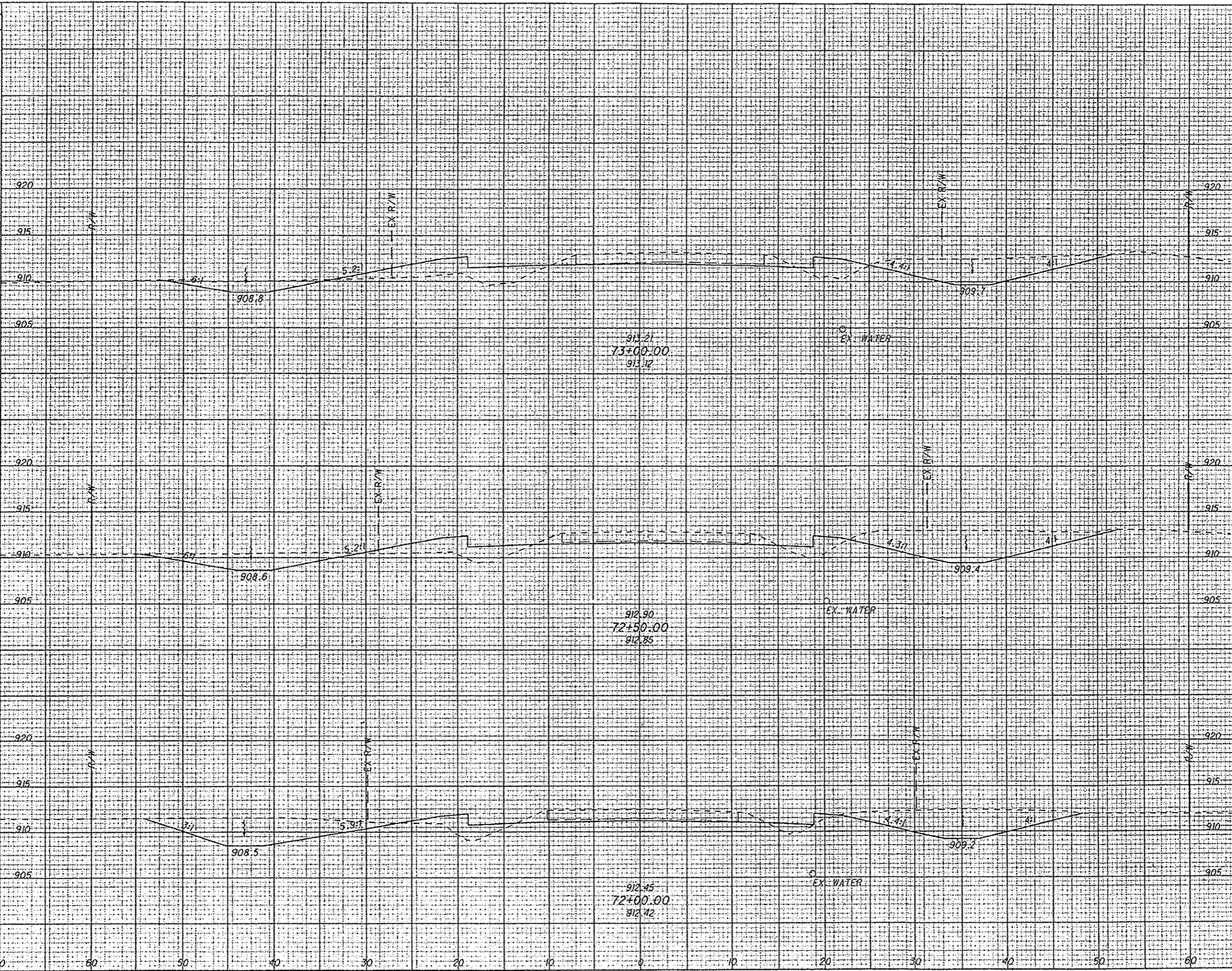
| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:38AM plove

SEEDING
END WIDTH SO. YDS.



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

CALCULATED
 MMB
 CHECKED
 JEL

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

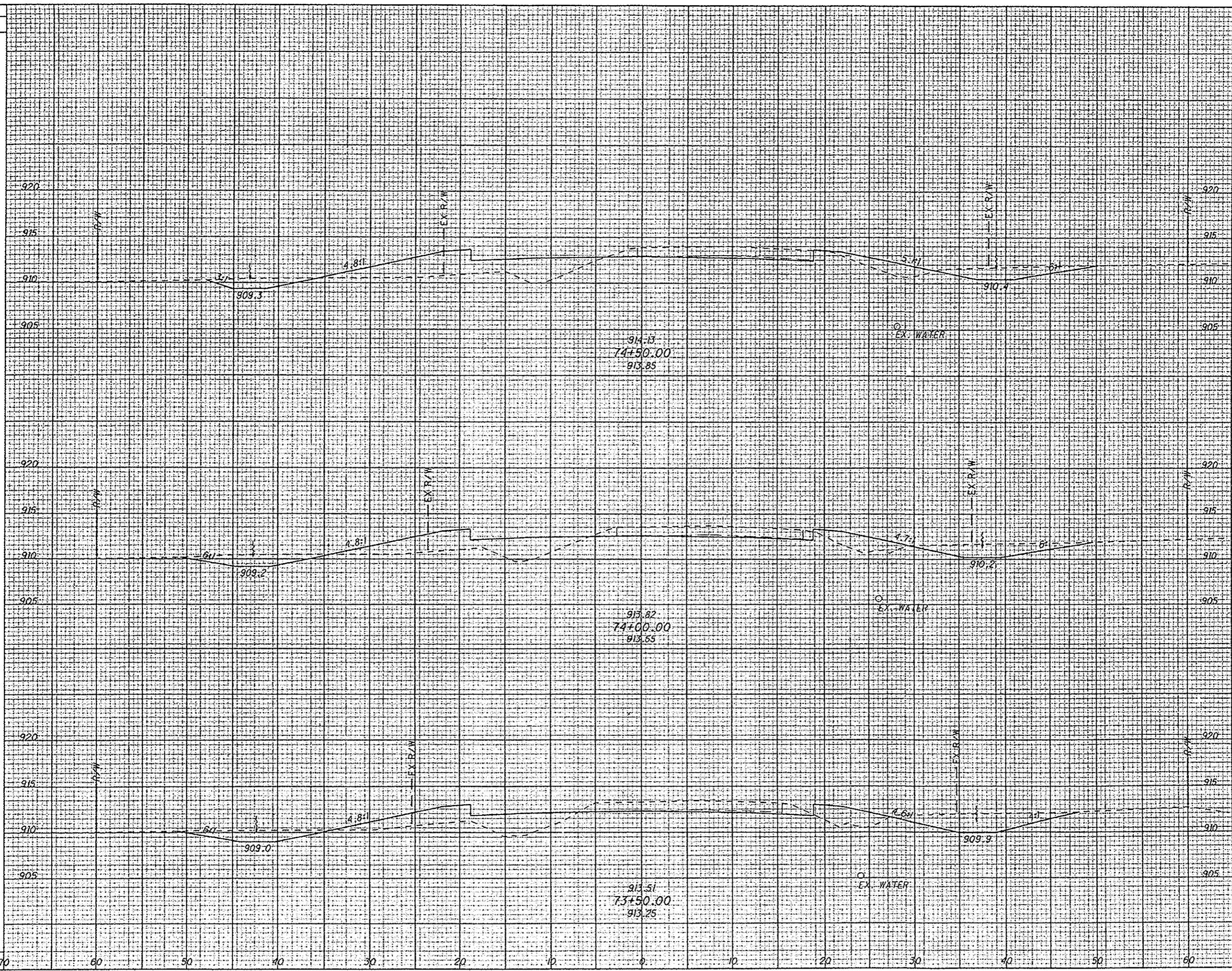
LIC-THORNWOOD

115
 285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:38AM prove

SEEDING
END WIDTH SO. YDS.

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



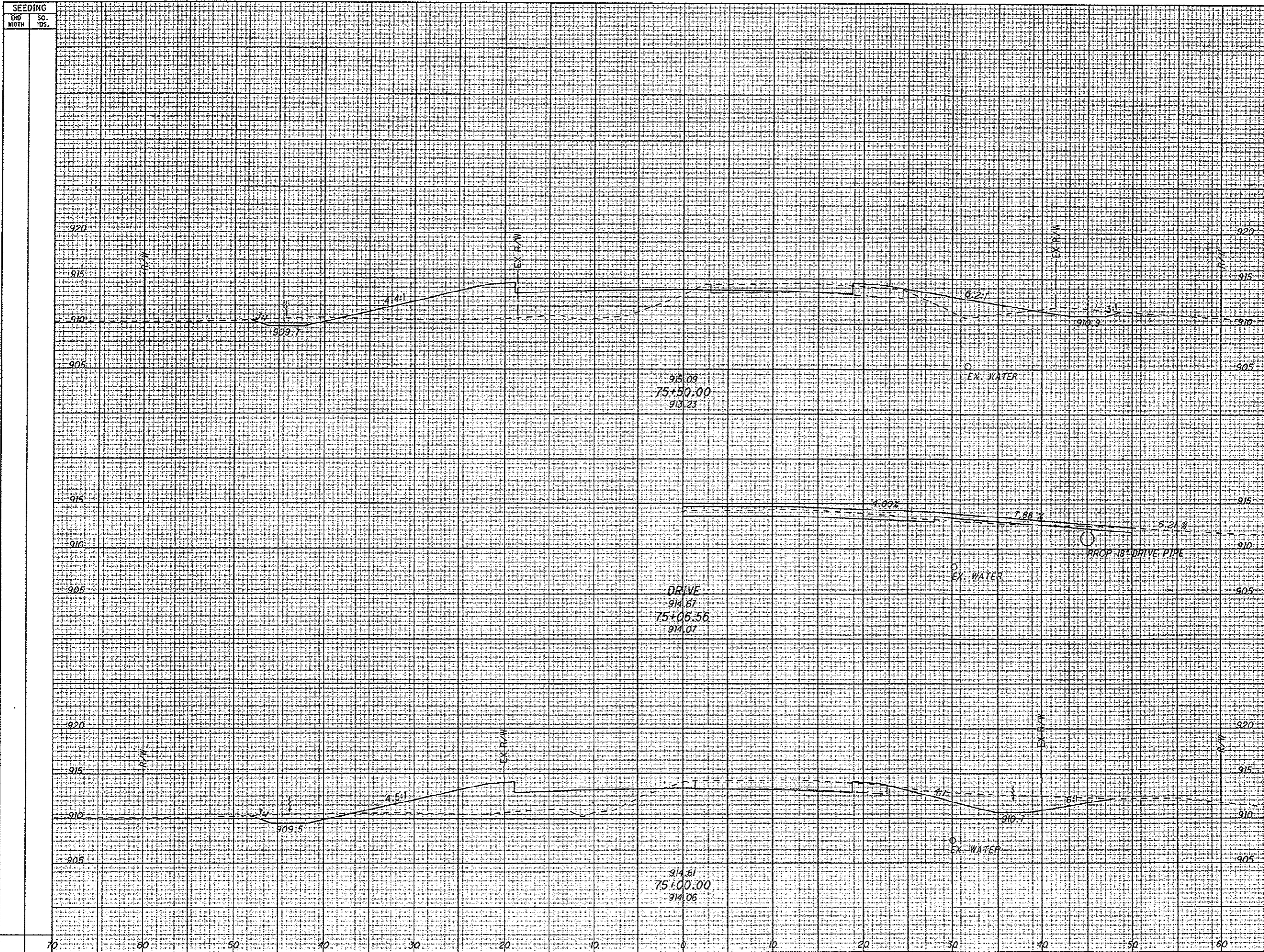
| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| OUT | FILL | OUT | FILL | | |
| | | | | | |

LIC-THORNWOOD

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

116
285

P:\WP\dms08268\78116\S001.dgn 02-SEP-2009 9:38AM flove



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

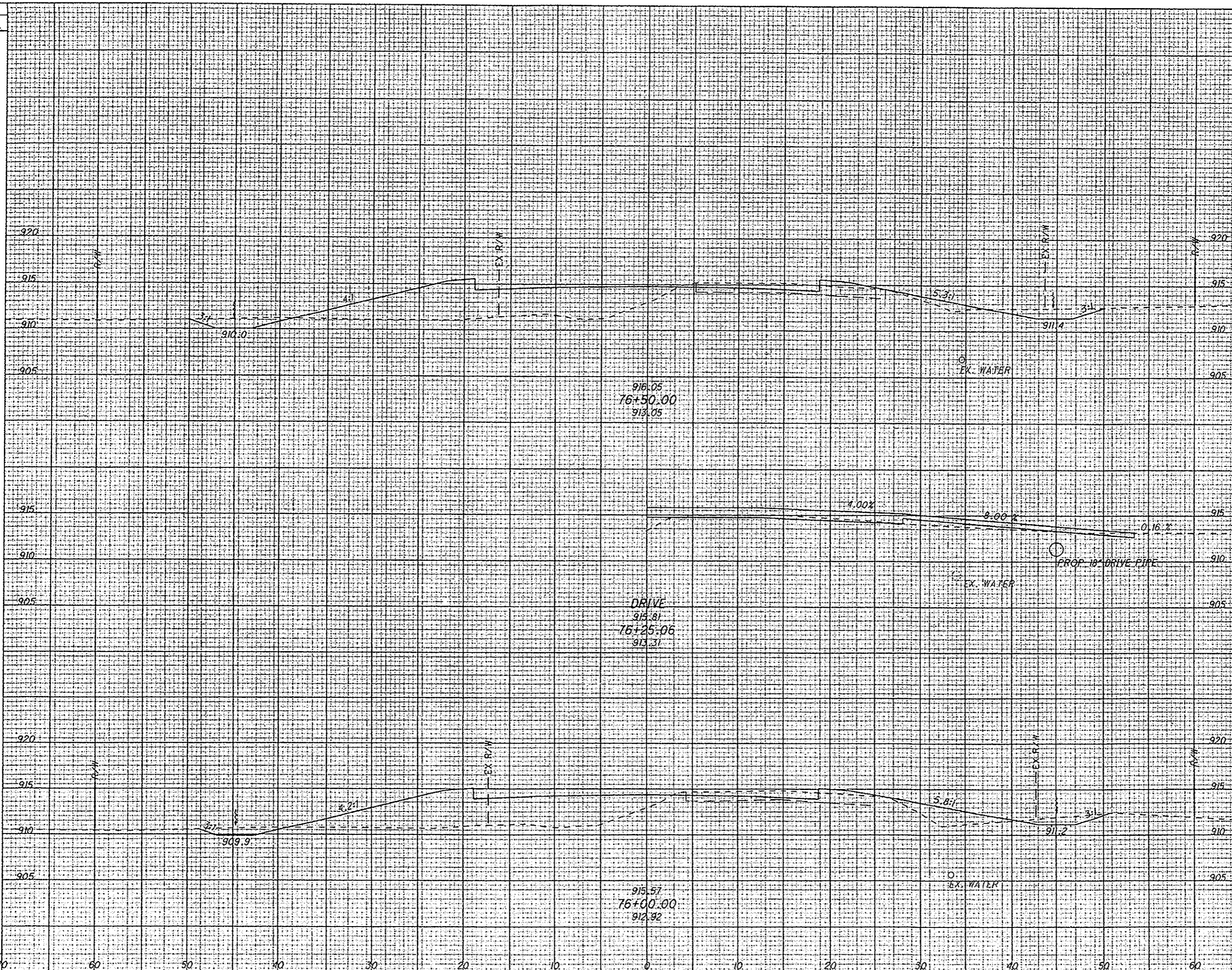
CROSS SECTIONS - THORNWOOD
STA. 75+00.00 TO STA. 75+50.00

LIC-THORNWOOD

P:\PWP.dms\08268\78116XS001.dgn 02-SEP-2009 9:38AM jlove

SEEDING
END SO.
WIDTH YDS.

| END AREA | | VOLUME | | CALCULATED MMB CREATED | JEL |
|----------|------|--------|------|------------------------------|-----|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

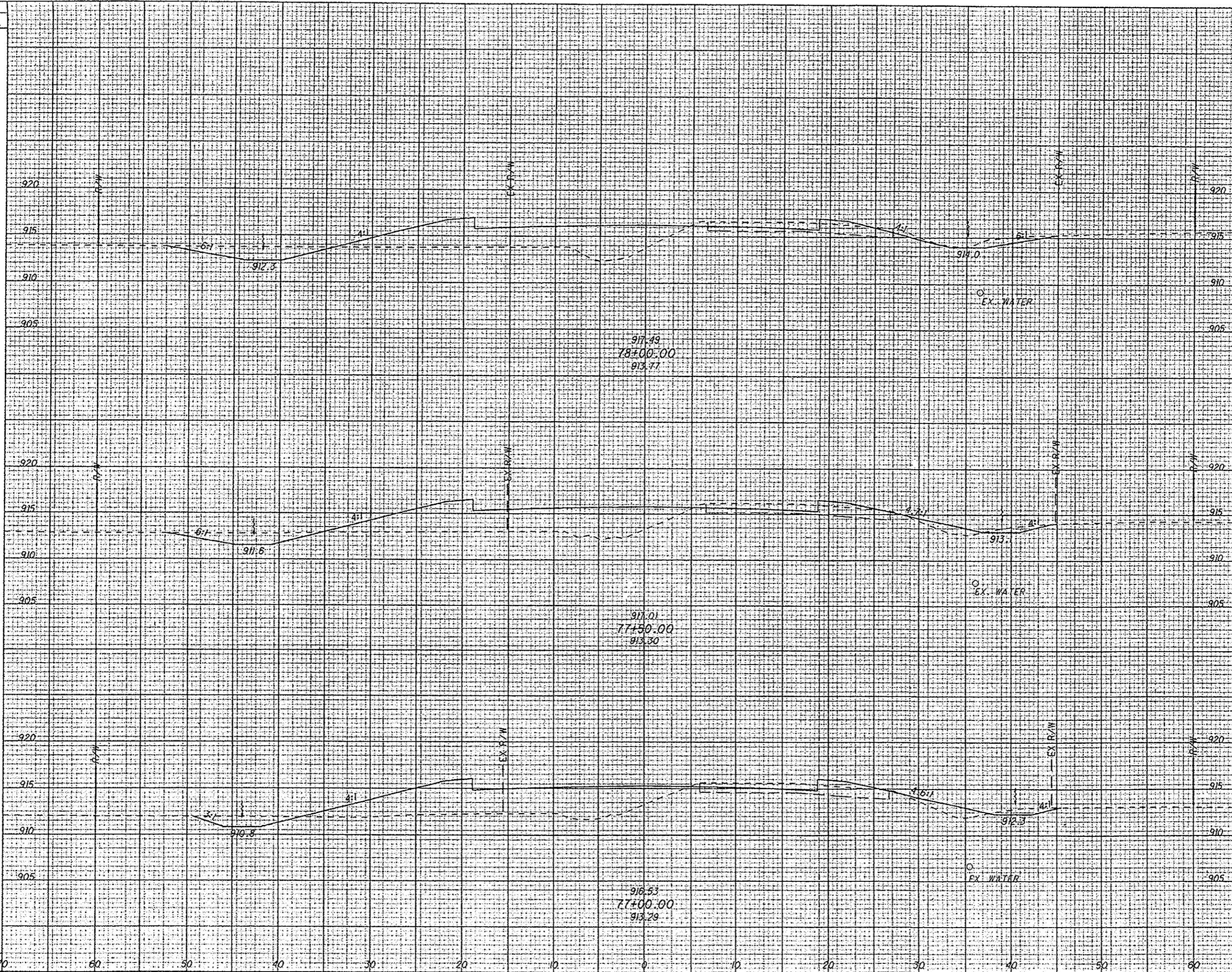


CROSS SECTIONS - THORNWOOD
STA. 76+00.00 TO STA. 76+50.00

LIC-THORNWOOD

IP_PWP: dms08268\78116XS001.dgn 02-SEP-2009 9:38AM jrove

SEEDING
END SO.
WIDTH YDS.



| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

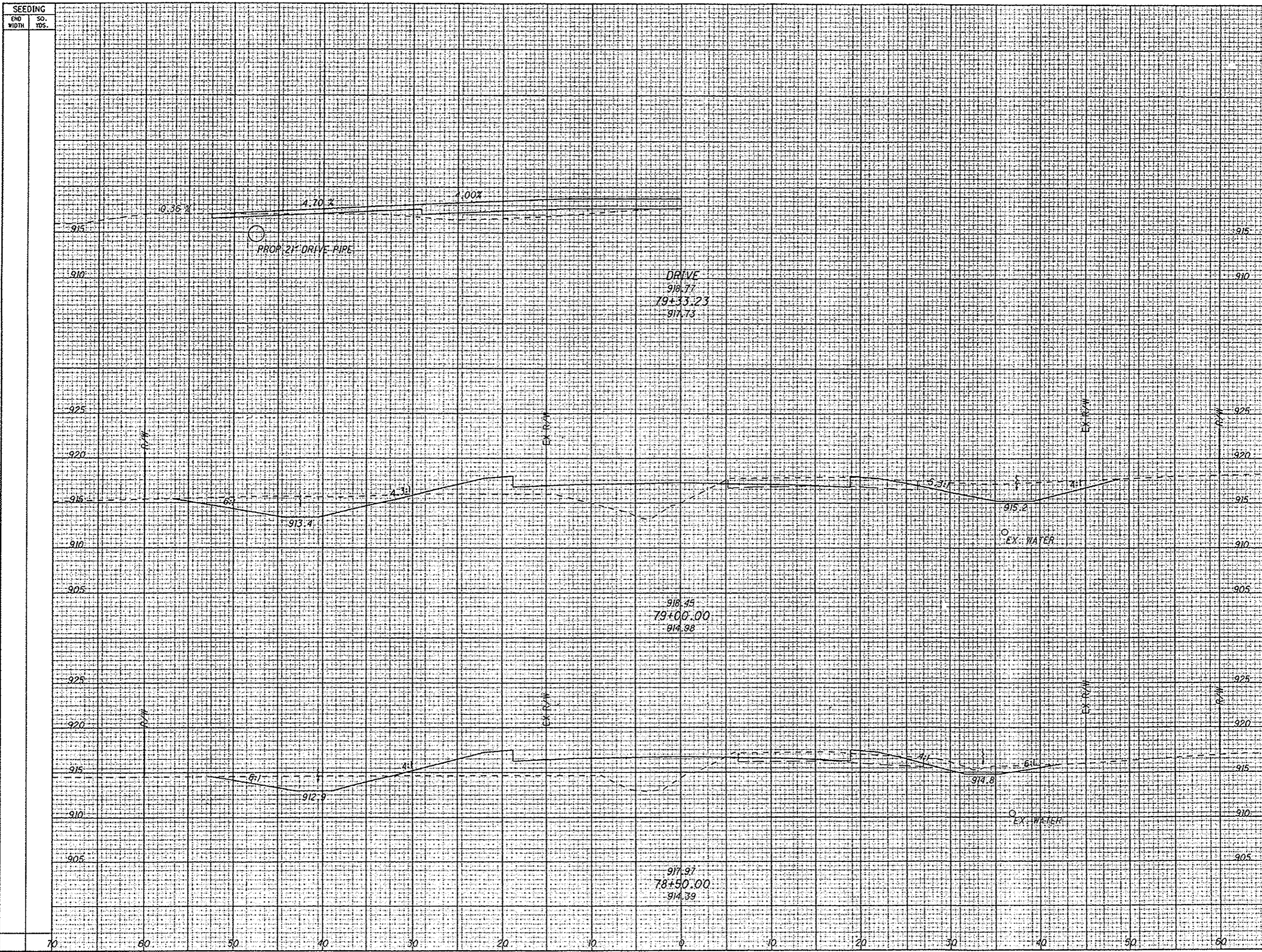
| CALCULATED | CHECKED |
|------------|---------|
| MMB | JEL |

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

LIC-THORNWOOD

119
285

P:\PWP\dms08268\78116XS001.dgn 02-SEP-2009 9:39AM jlove

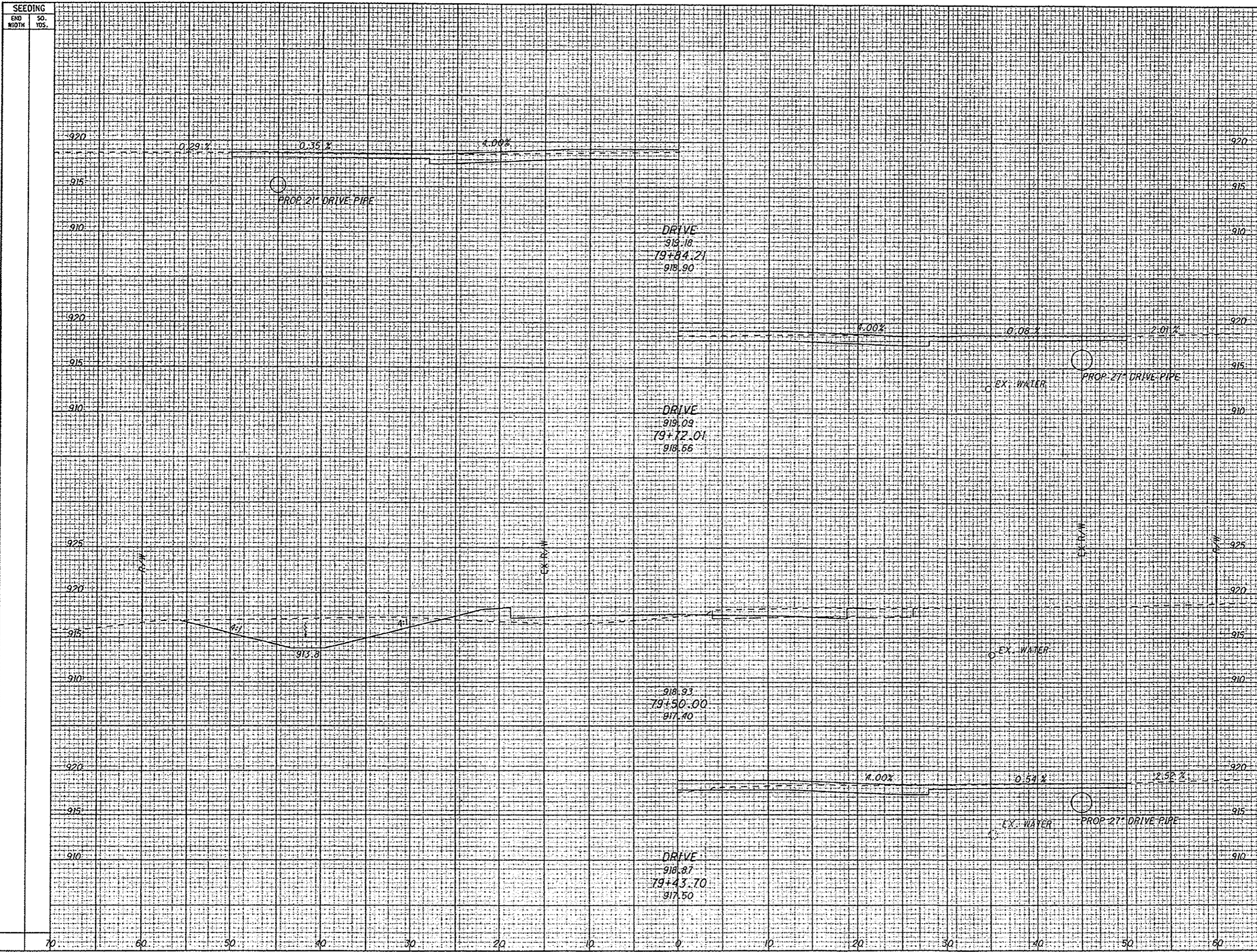


| END AREA | VOLUME | |
|----------|--------|------|
| | CUT | FILL |
| | | |

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

LIC-THORNWOOD

120
285



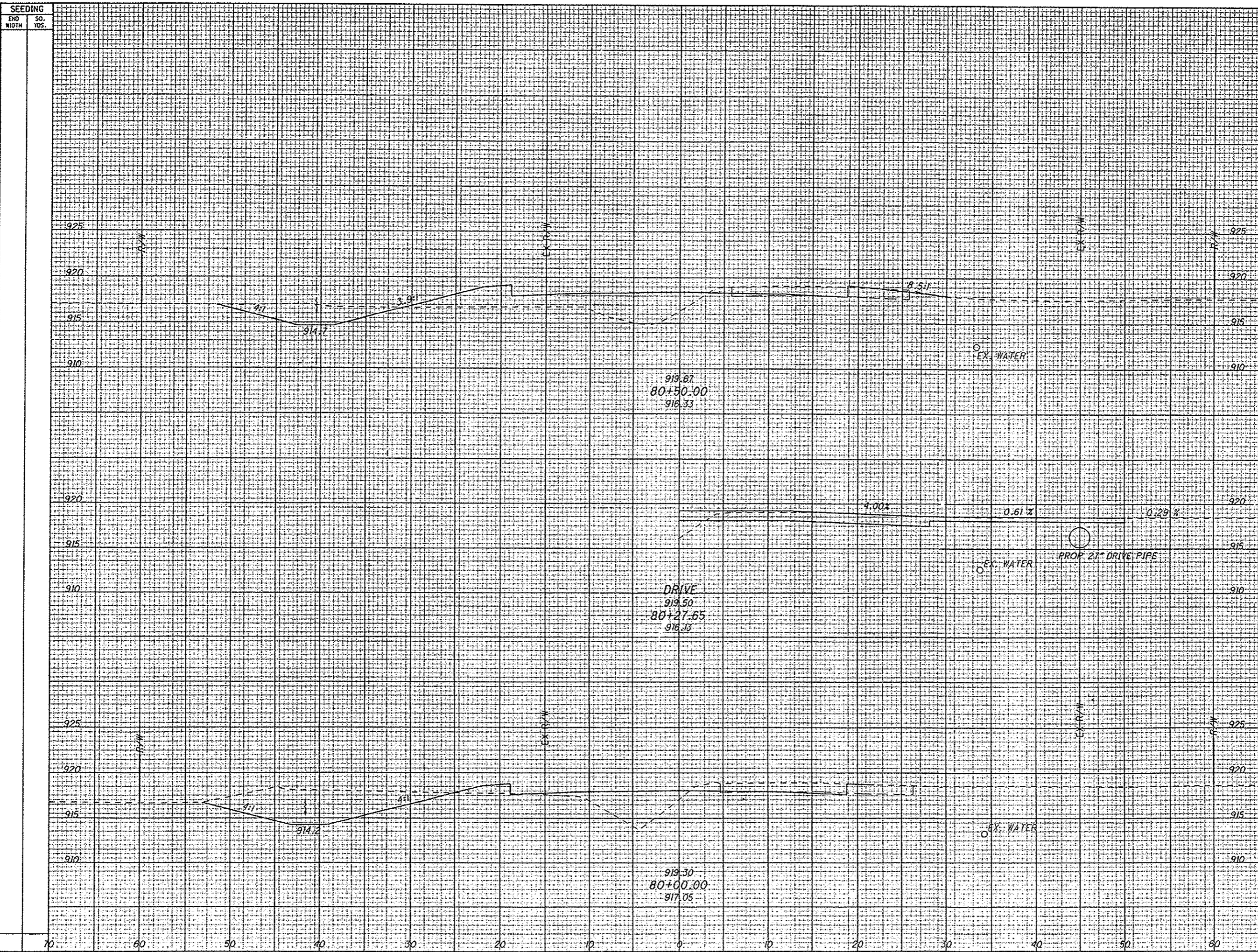
| SEEDING | | END AREA | | VOLUME | |
|-----------|----------|----------|------|--------|------|
| END WIDTH | SO. YDS. | CUT | FILL | CUT | FILL |
| | | | | | |

CALCULATED
 MMB
 CHECKED
 JEL

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

LIC-THORNWOOD

IP_PWP.dms08268\78116\X5001.dgn 02-SEP-2009 9:39AM jlove



| SEEDING | | END AREA | | VOLUME | |
|---------|------|----------|------|--------|------|
| END | SO. | OUT | FILL | OUT | FILL |
| WIDTH | YDS. | | | | |
| | | | | | |

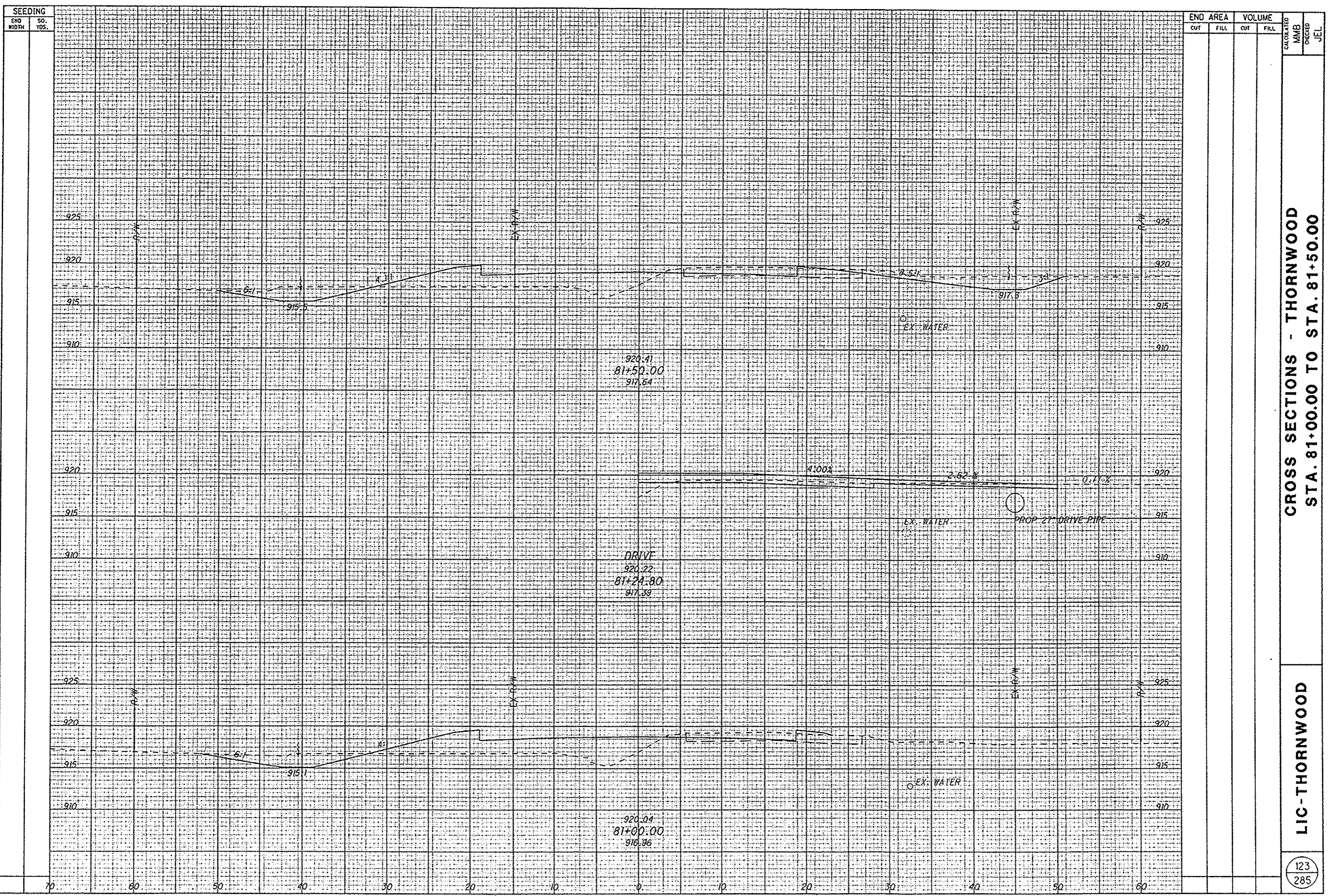
CROSS SECTIONS - THORNWOOD
STA. 80+00.00 TO STA. 80+50.00

LIC-THORNWOOD

122
285

CALCULATED
MMB
CHECKED
JEL.

IP_PWP: dms08268_78116\S001.dgn 02-SEP-2009 9:39AM jrlve



| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |

| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |

| |
|------------|
| CALCULATED |
| MMB |
| CHECKED |
| JEL |

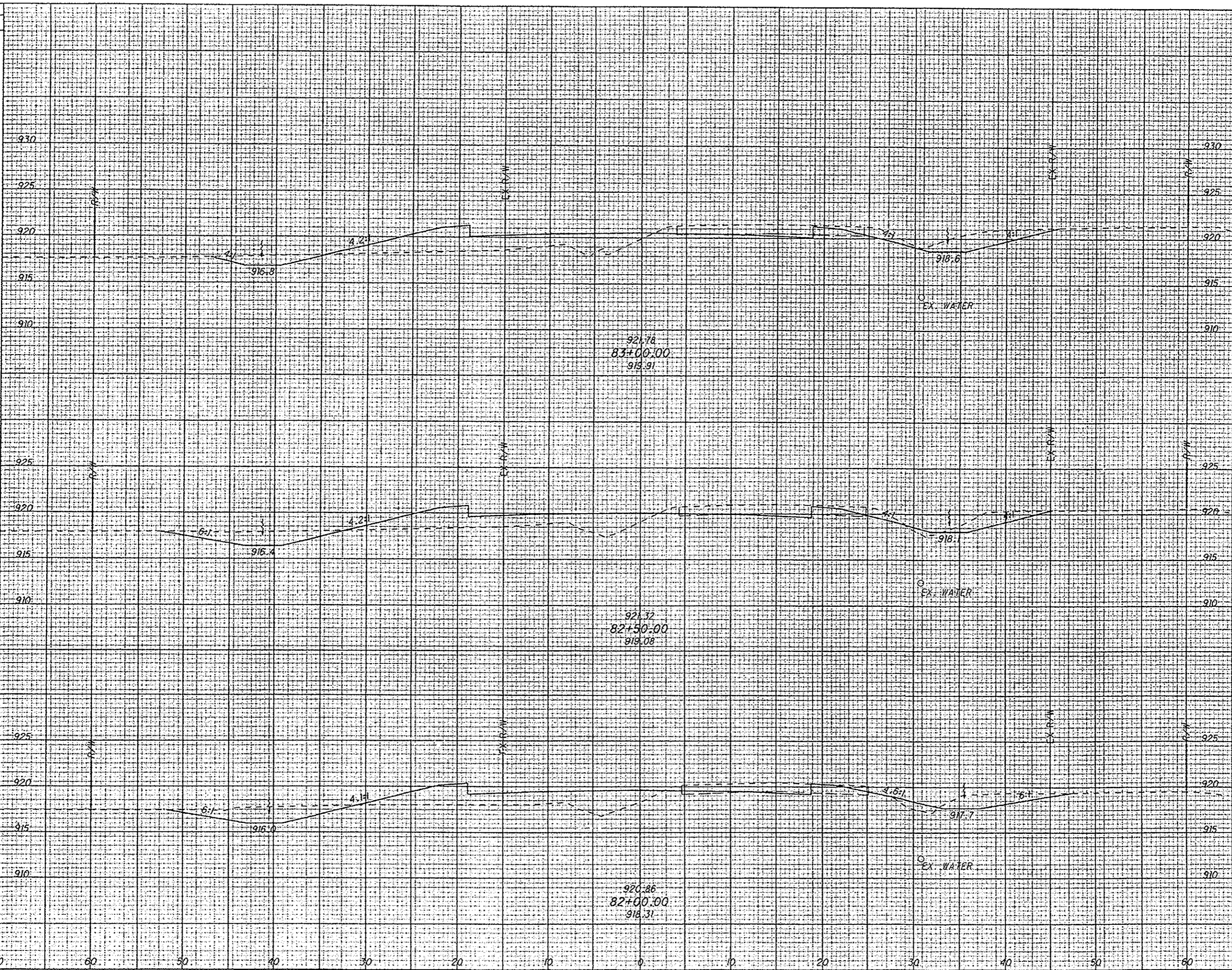
CROSS SECTIONS - THORNWOOD
 STA. 81+00.00 TO STA. 81+50.00

LIC-THORNWOOD

123
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:39AM jrove

SEEDING
END WIDTH SQ. YDS.



| END AREA | VOLUME | CALCULATED | | CHECKED | JEL |
|----------|--------|------------|------|---------|-----|
| | | CUT | FILL | | |
| | | | | | |

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

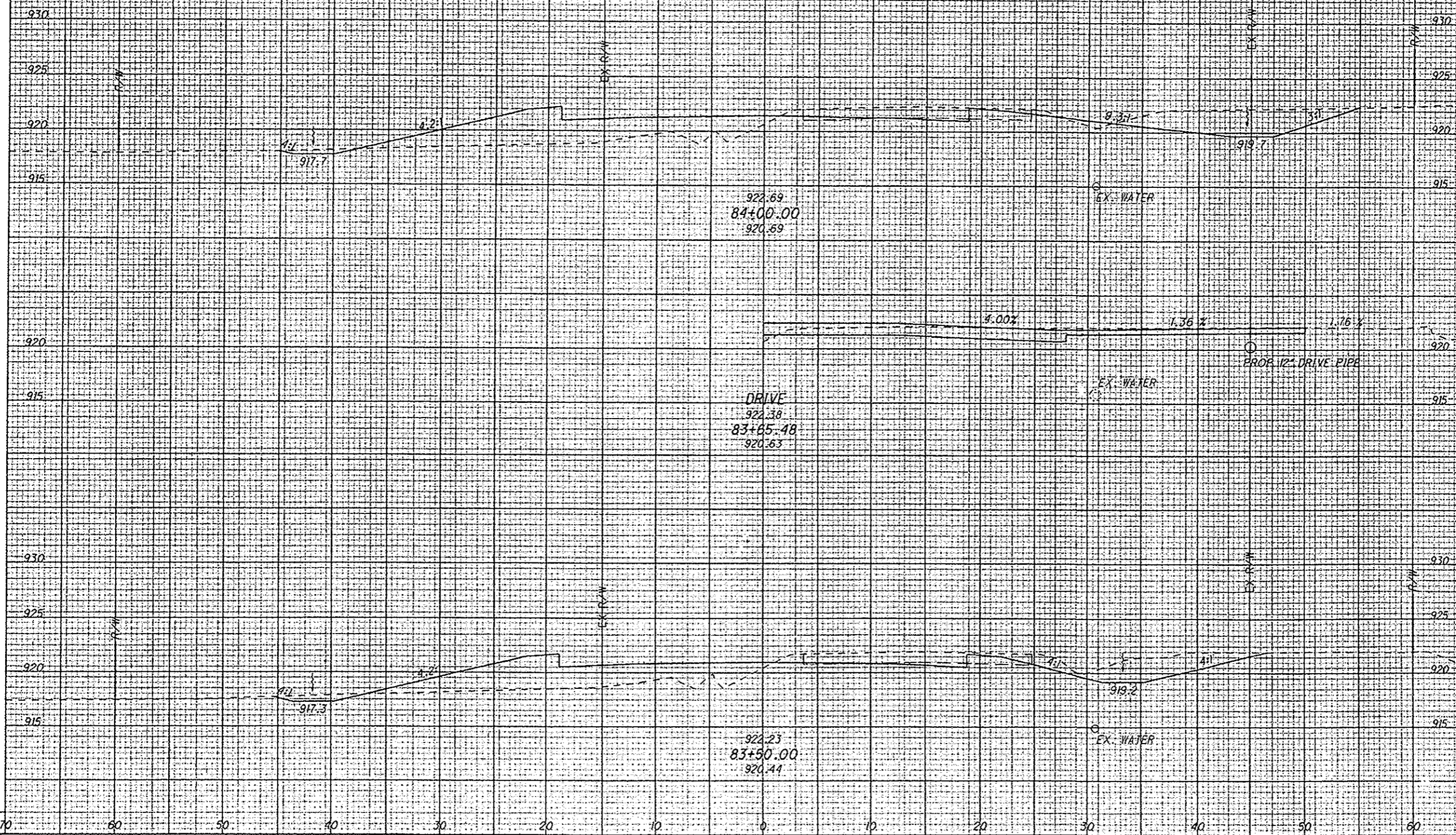
LIC-THORNWOOD

124
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:39AM flove

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB
CREATED
JEL



922.69
84+00.00
920.69

DRIVE
922.38
83+65.48
920.63

922.23
83+50.00
920.41

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

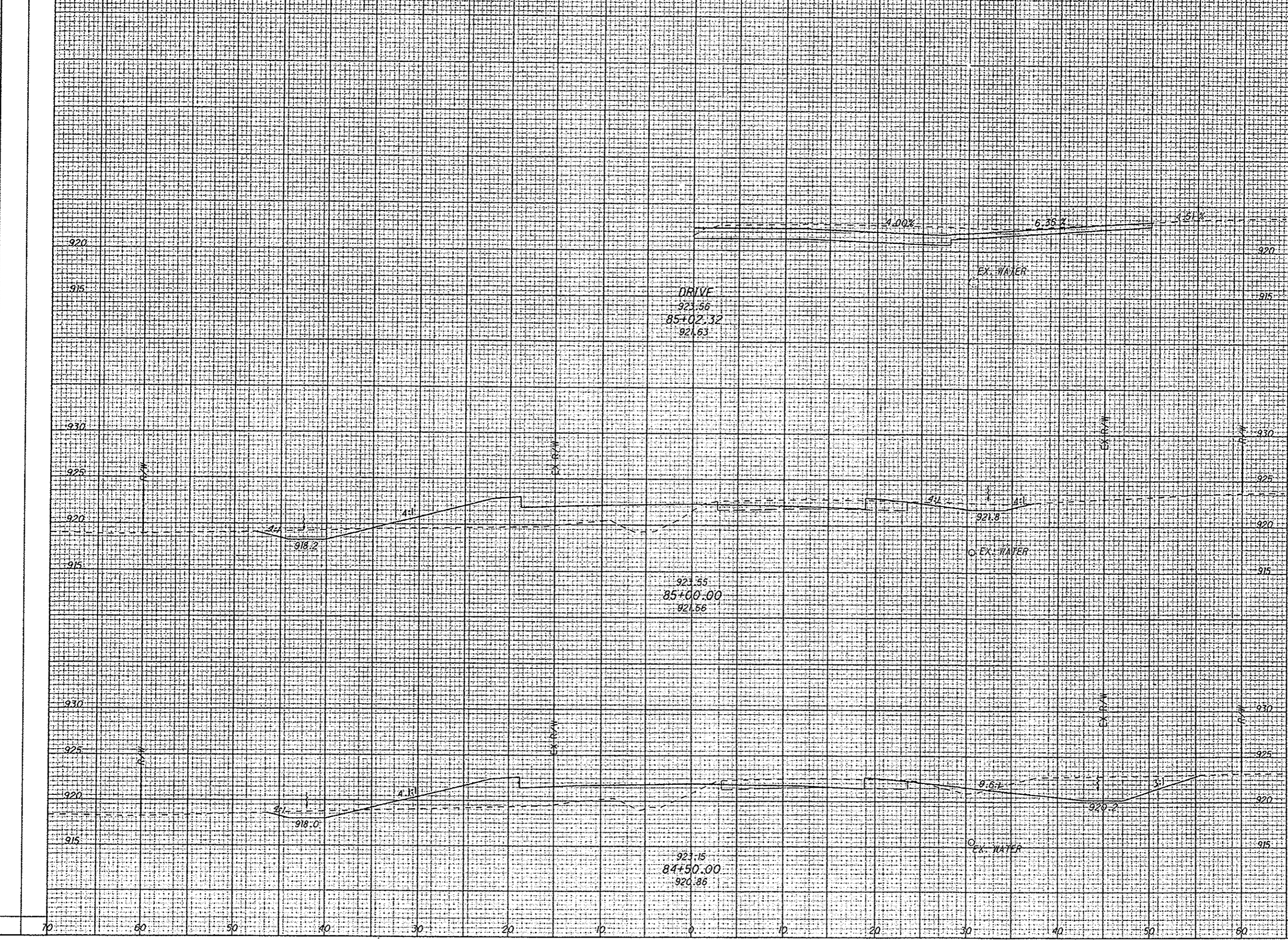
LIC-THORNWOOD

125
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:40AM jlove

SEEDING
END WIDTH SO. YDS.

| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |



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

LIC-THORNWOOD

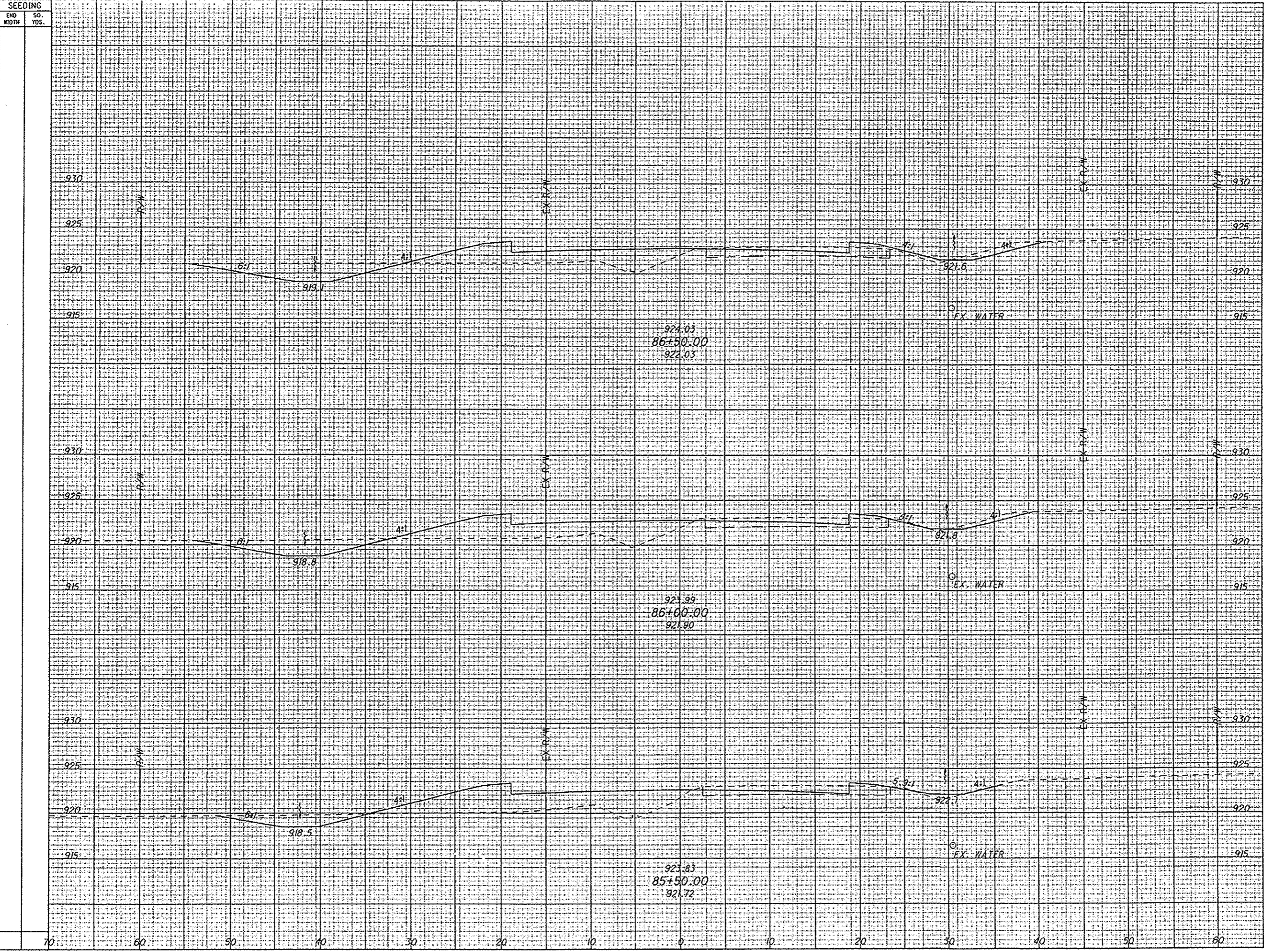
126
285

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:40AM rlove

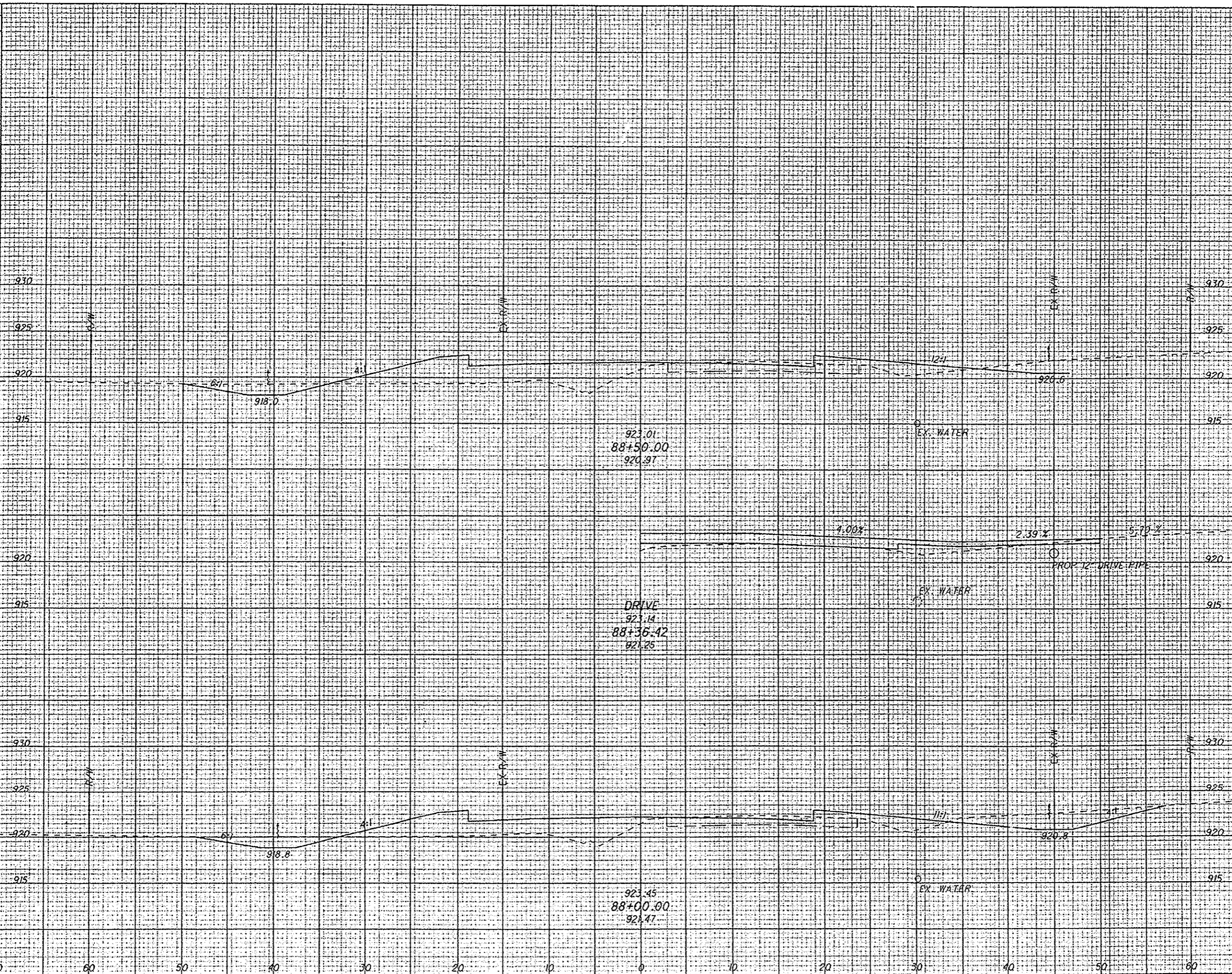


CROSS SECTIONS - THORNWOOD
STA. 85+50.00 TO STA. 86+50.00

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:40AM rlove

SEEDING
END SO.
WIDTH YDS.



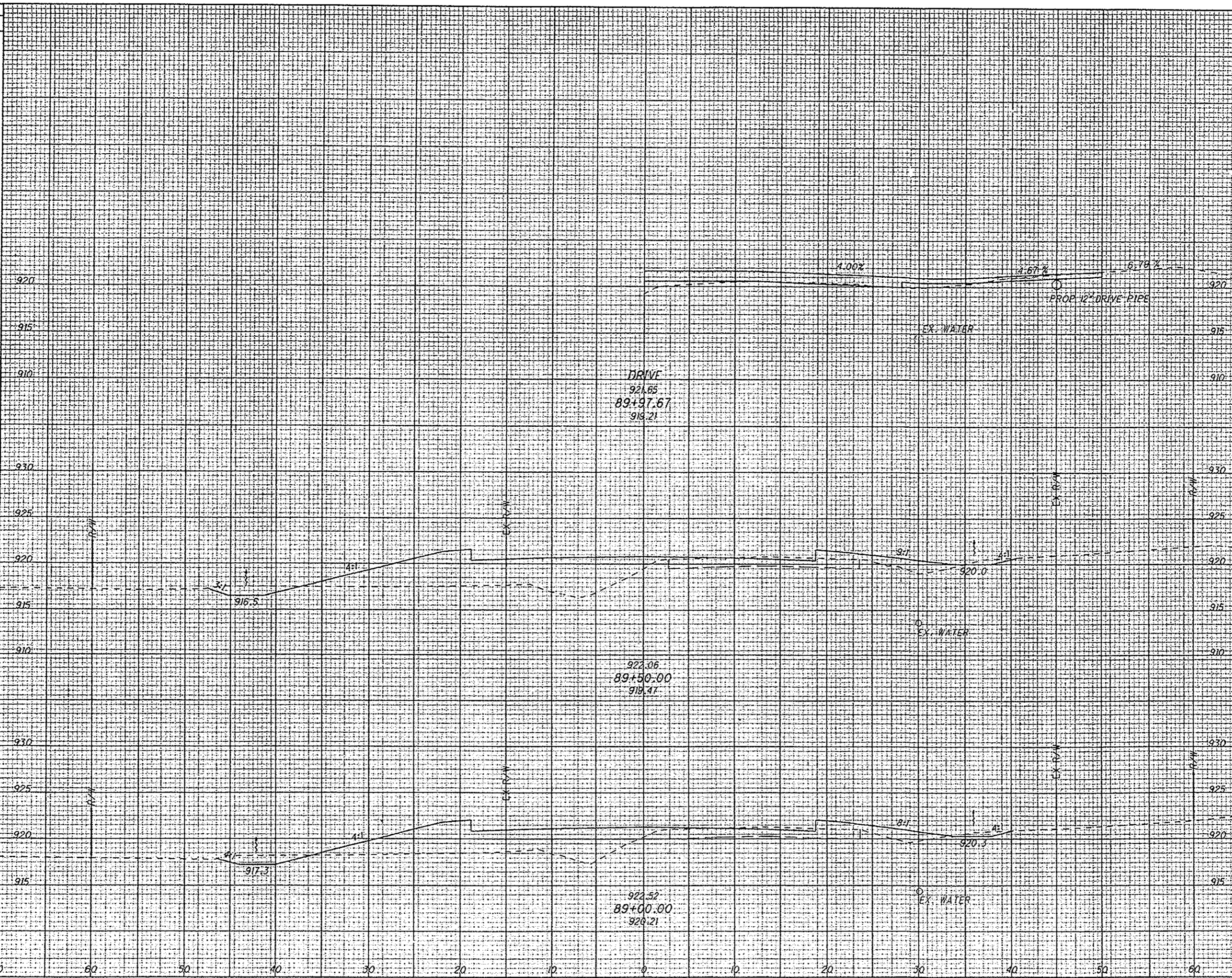
| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

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

LIC-THORNWOOD

IP_PWP: dms08268\78116XS001.dgn 02-SEP-2009 9:40AM jrove

SEEDING
END SO.
WIDTH TDS.



| END AREA | | VOLUME | | CALCULATED | CHECKED |
|----------|------|--------|------|------------|---------|
| CUT | FILL | CUT | FILL | | |
| | | | | MMB | JEL |

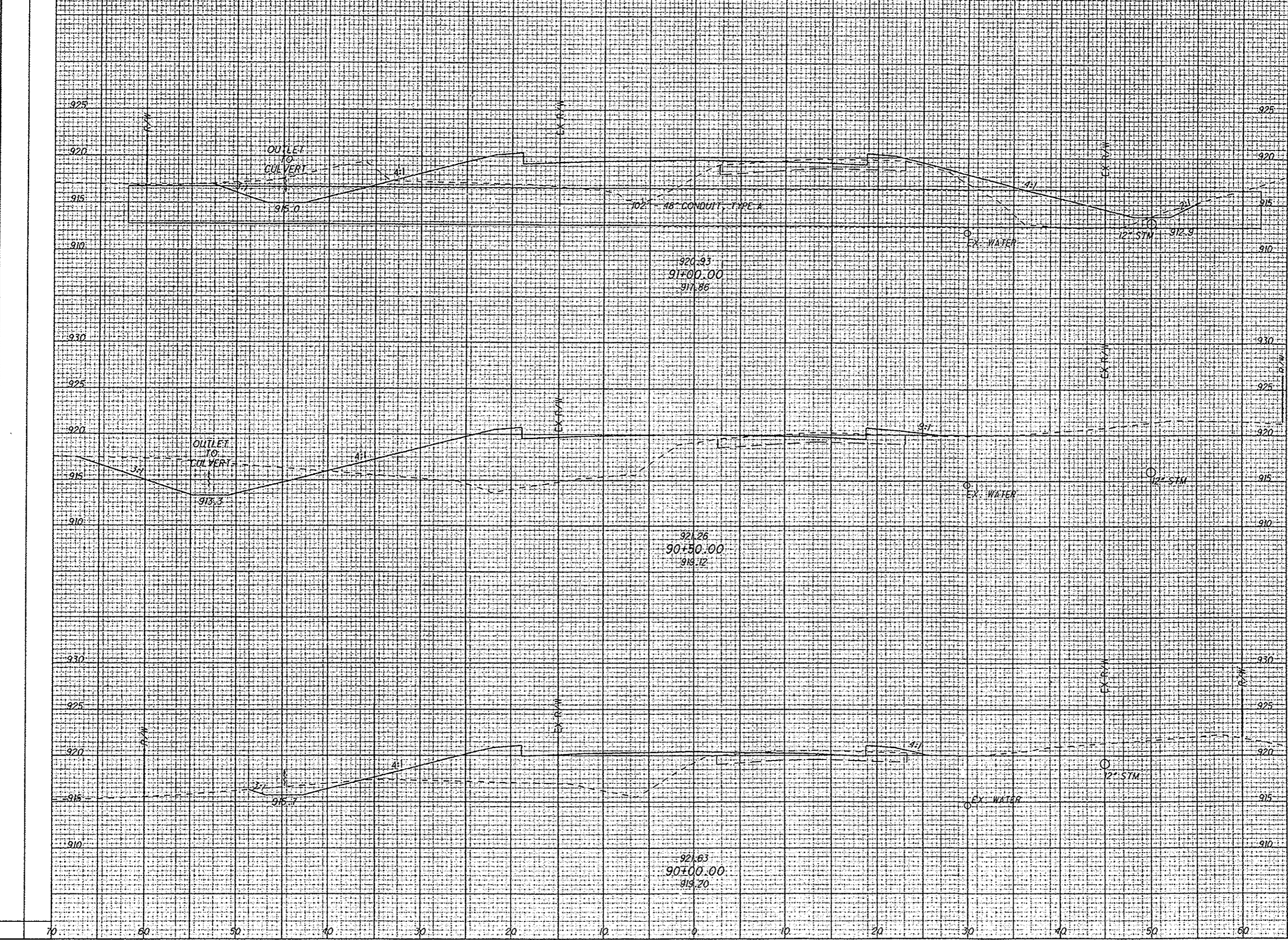
CROSS SECTIONS - THORNWOOD
STA. 89+00.00 TO STA. 89+97.67

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:40AM ftrove

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB
CHECKED
JEL



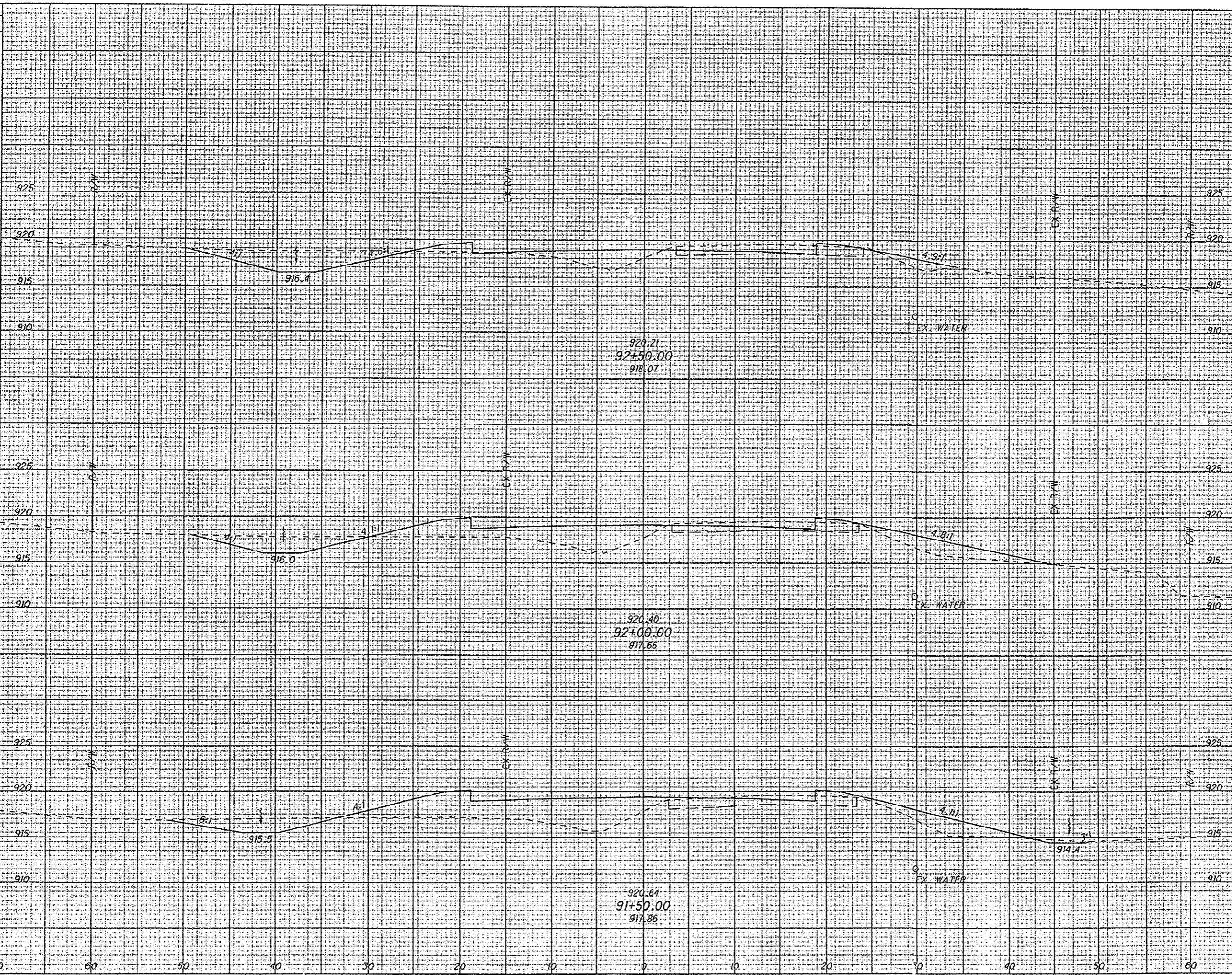
CROSS SECTIONS - THORNWOOD
STA. 90+00.00 TO STA. 91+00.00

LIC-THORNWOOD

131
285

IP_PWP.dms08266\78116XS001.dgn_02-SEP-2009 9:41AM_flove

SEEDING
END SO.
WIDTH YDS.



| END AREA | VOLUME | | CALCULATED | CHECKED | JEL |
|----------|--------|------|------------|---------|-----|
| | CUT | FILL | | | |
| | | | | | |

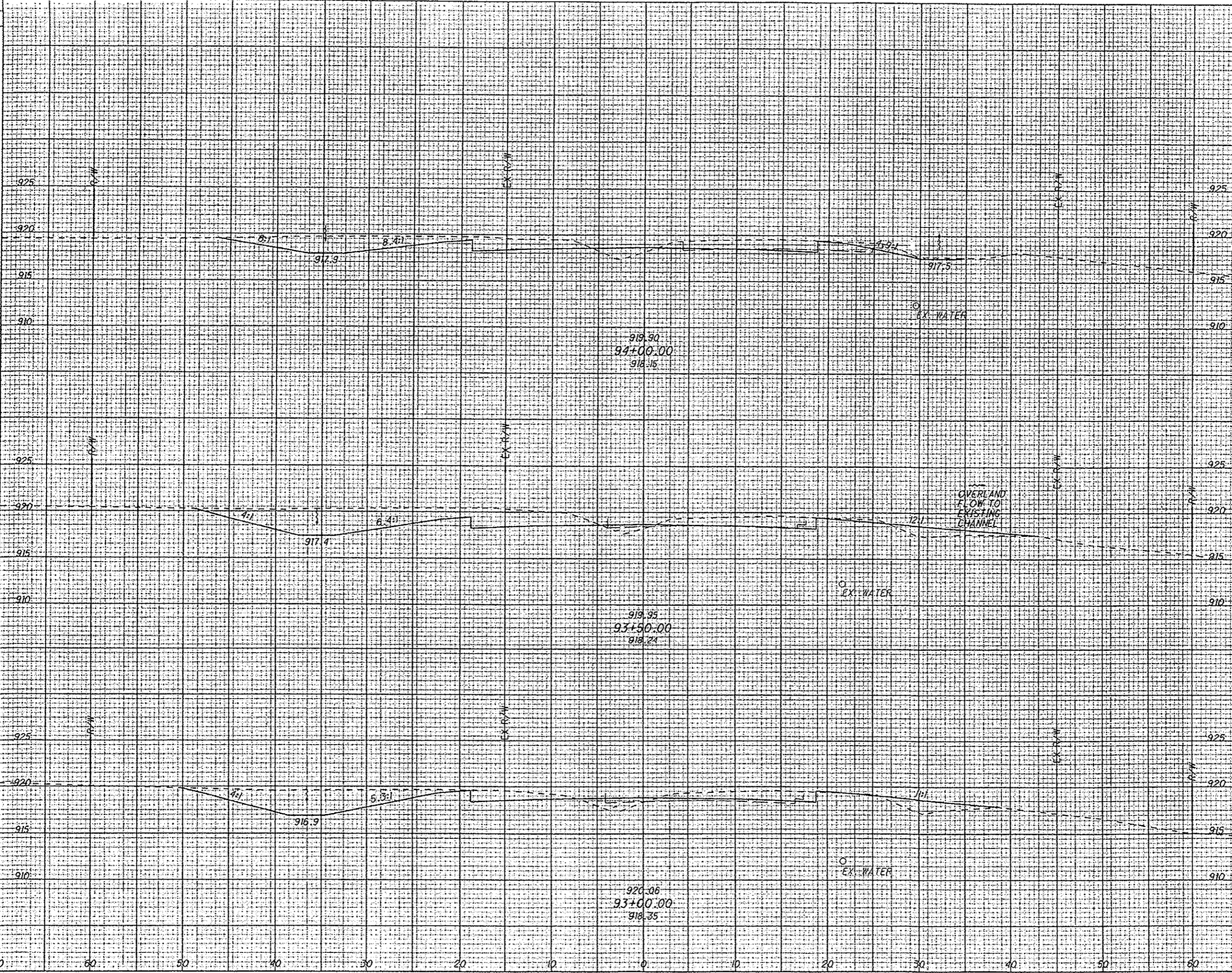
CROSS SECTIONS - THORNWOOD
STA. 91+50.00 TO STA. 92+50.00

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:41AM prove

SEEDING
END WIDTH SO. YDS.

| END AREA | | VOLUME | | CALCULATED MMB CREC'D | JEL |
|----------|------|--------|------|-----------------------------|-----|
| OUT | FILL | CUT | FILL | | |
| | | | | | |

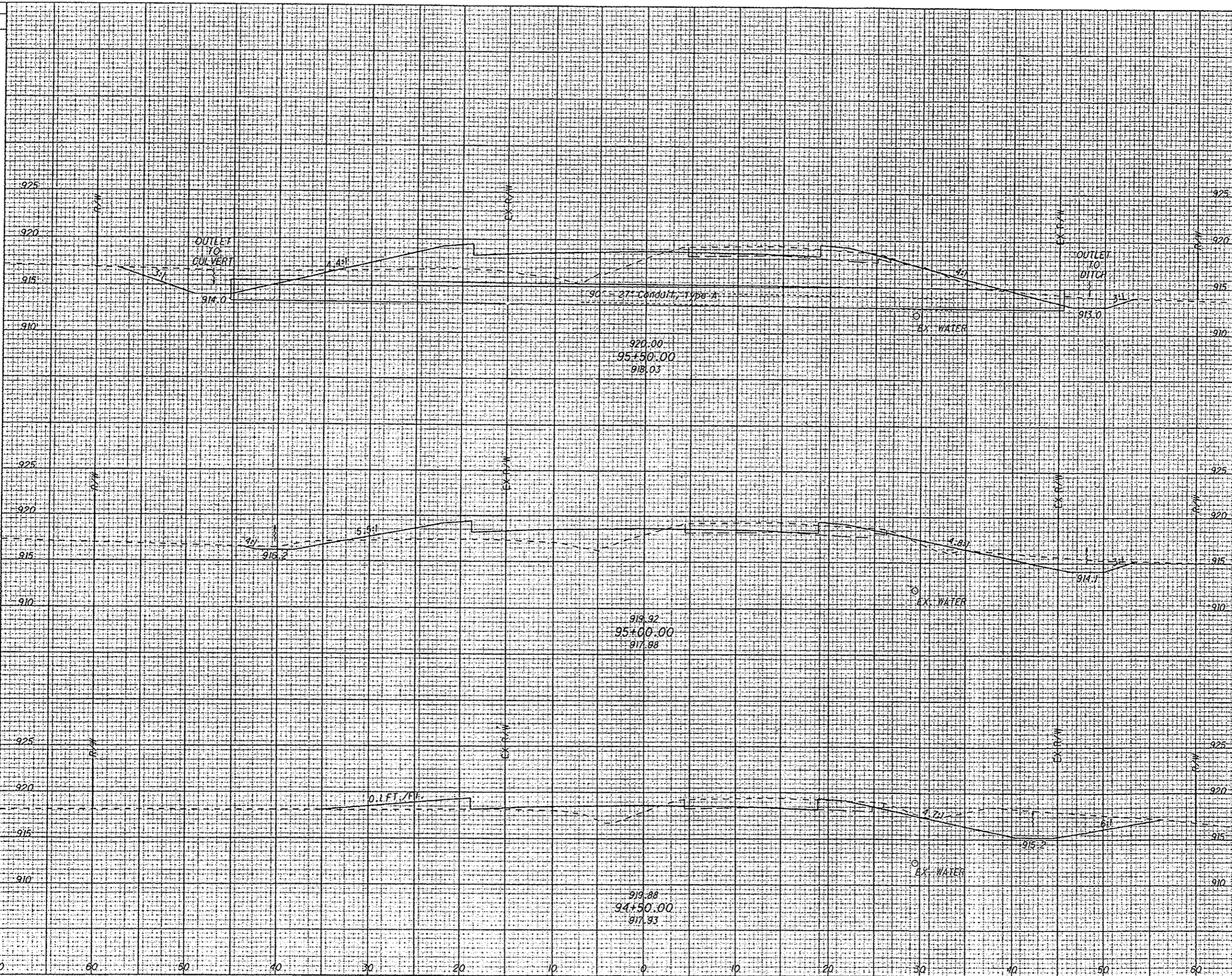


CROSS SECTIONS - THORNWOOD
STA. 93+00.00 TO STA. 94+00.00

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:41AM jrove

| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |



| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |
| | | | |

CALCULATED
 MMB
 CHECKED
 JEL

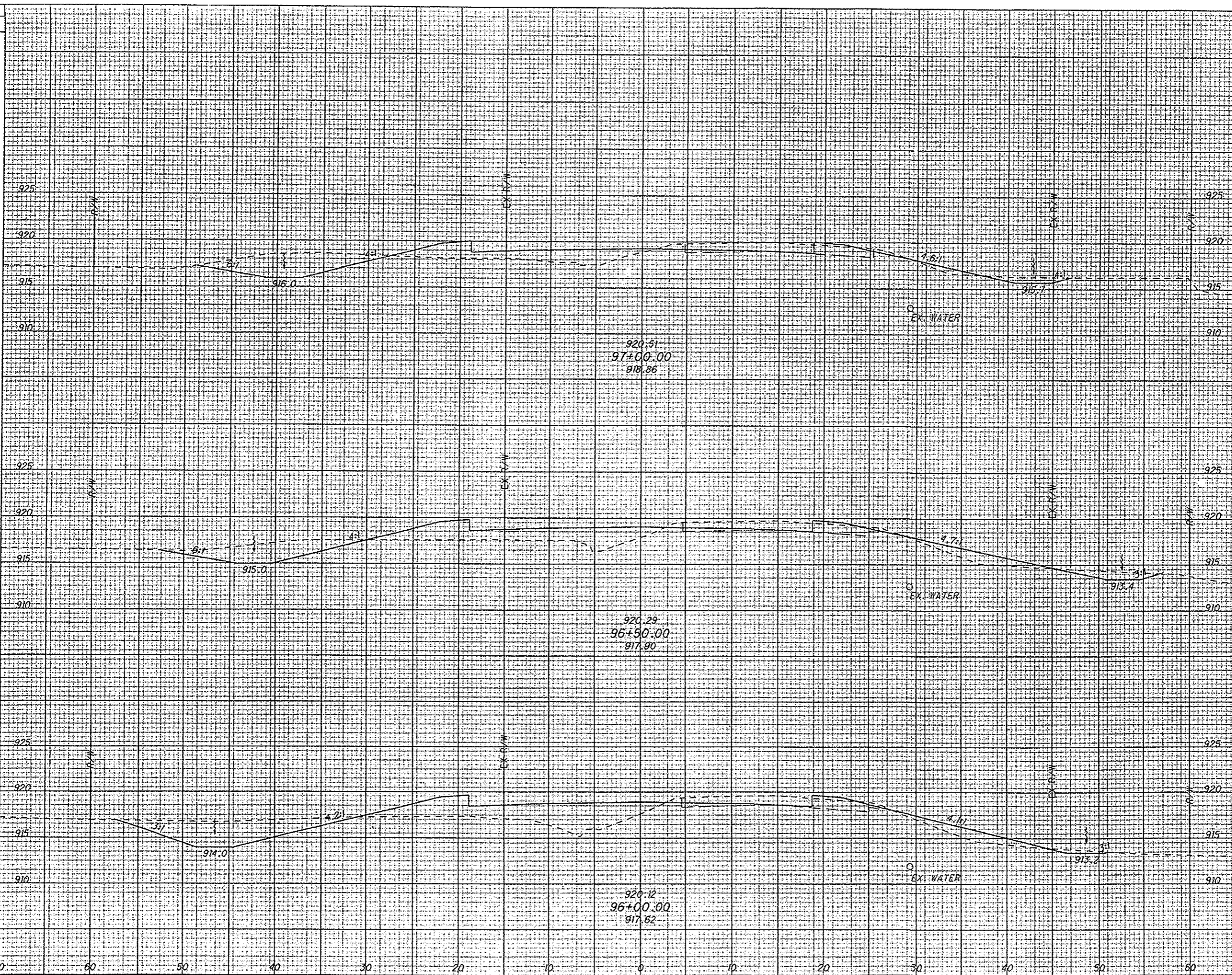
**CROSS SECTIONS - THORNWOOD
 STA. 94+50.00 TO STA. 95+50.00**

LIC-THORNWOOD

134
 285

IP_PWP.dms08268_78116XS001.dgn_02-SEP-2009 9:41AM jlove

SEEDING
END WIDTH SO. YDS.



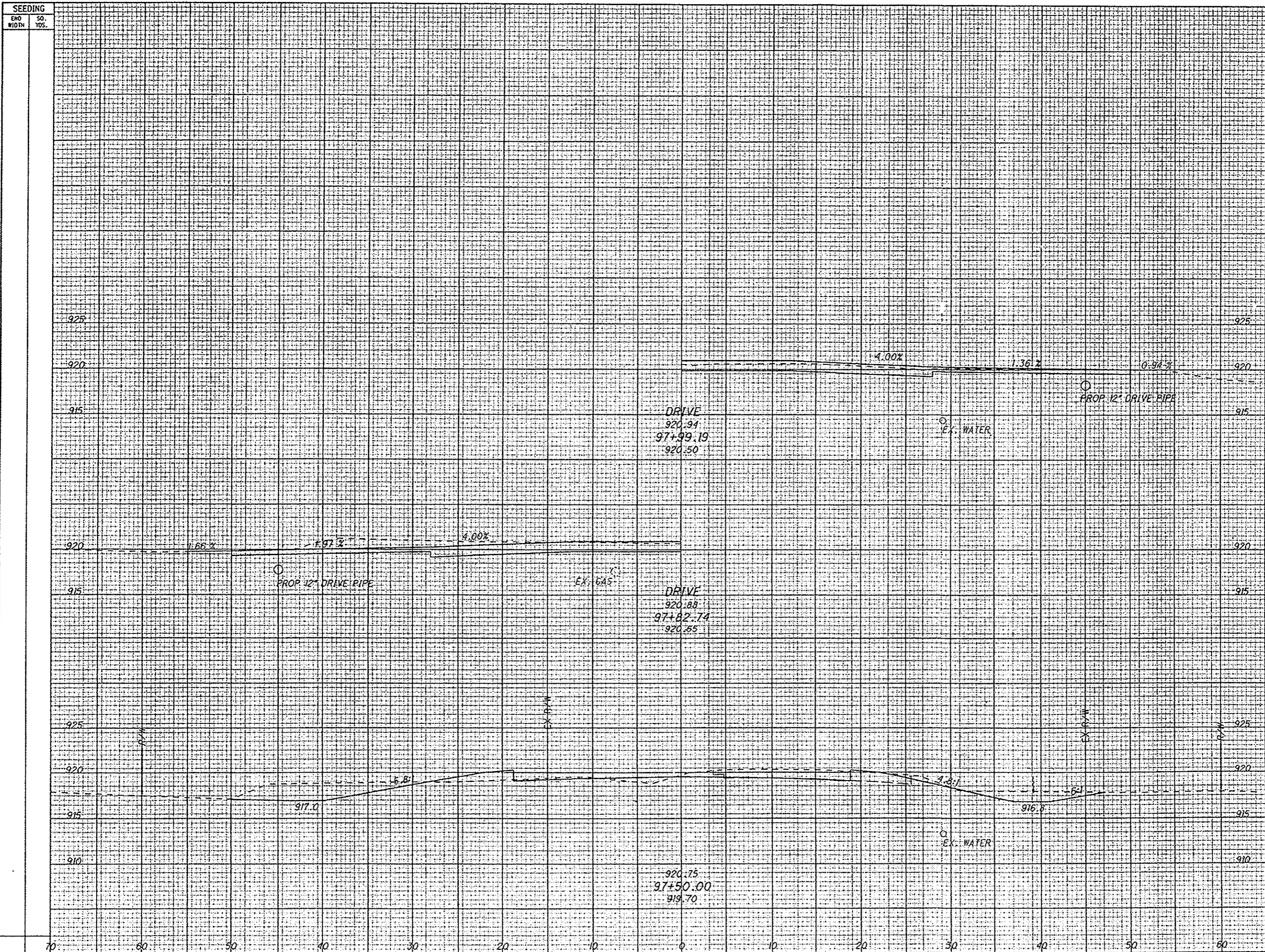
| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| OUT | FILL | OUT | FILL | | | | |
| | | | | | | | |

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

LIC-THORNWOOD

135
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:41AM jtove



| SEEDING | | END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|-----------|----------|----------|------|--------|------|------------|-----|---------|-----|
| END WIDTH | SO. YOS. | CUT | FILL | CUT | FILL | | | | |
| | | | | | | | | | |

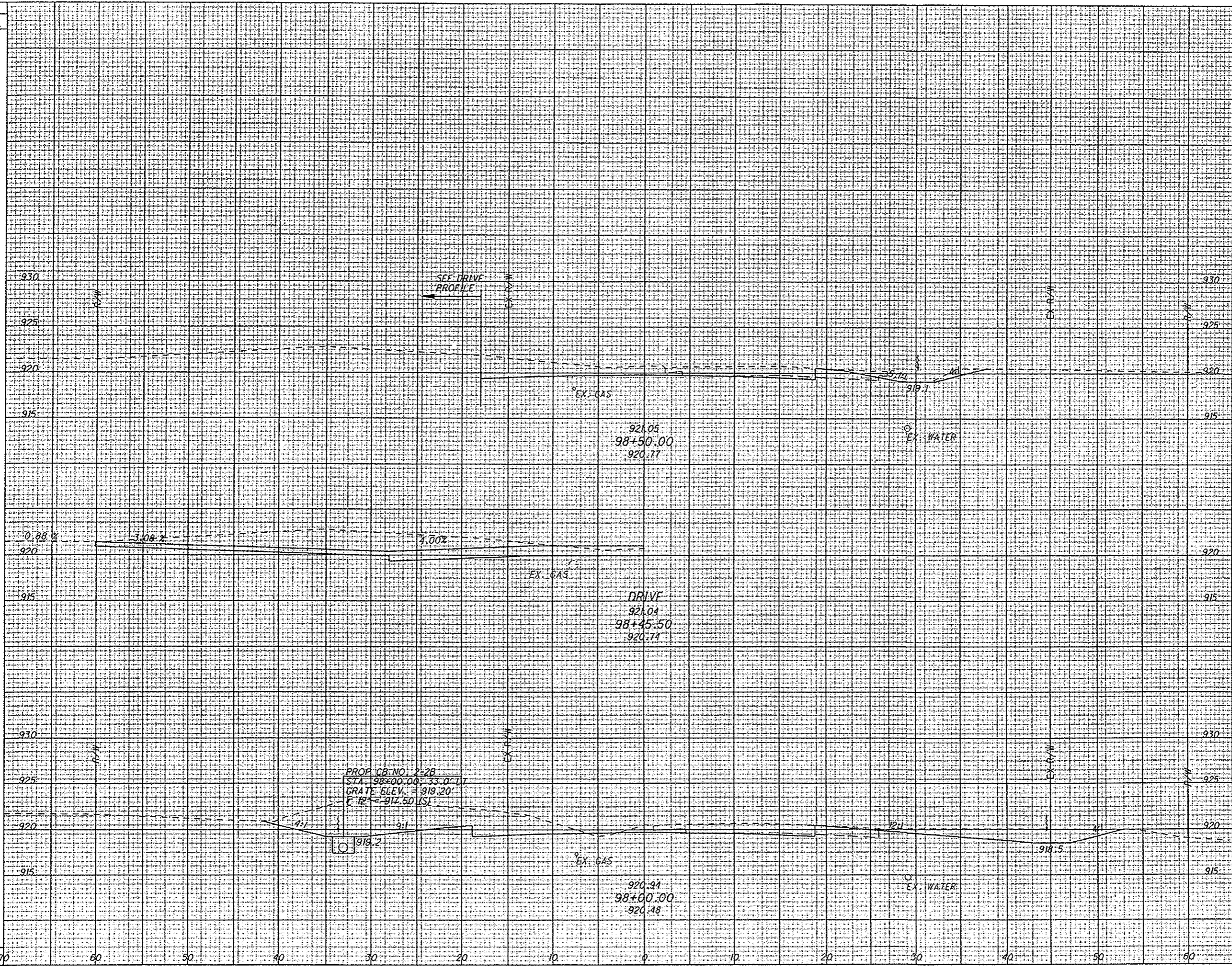
CROSS SECTIONS - THORNWOOD
STA. 97+50.00 TO STA. 97+99.19

LIC-THORNWOOD

SEEDING
END WIDTH SO. 105.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:41AM flove



PROP. CB. NO. 2-28
STA. 98+00.00 33'-0" L
GRATE ELEV. = 918.20'
C. 12" = 917.50 (S)

921.05
98+50.00
920.77

DRIVE
921.04
98+45.50
920.74

920.94
98+00.00
920.48

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

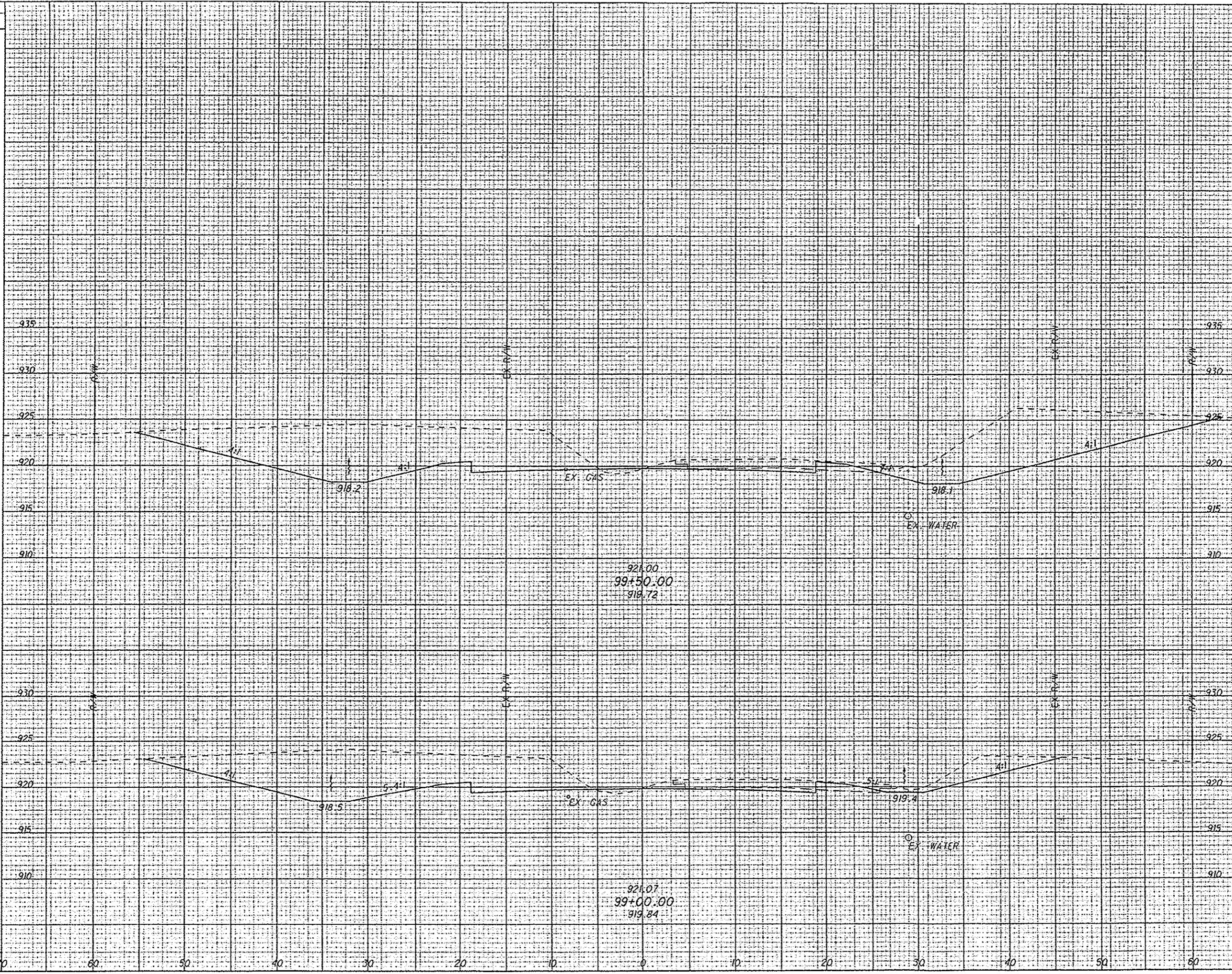
LIC-THORNWOOD

SEEDING
END SO.
WIDTH NOS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

P:\PWP\dms08268\78116X5001.dgn 02-SEP-2009 9:42AM jlove

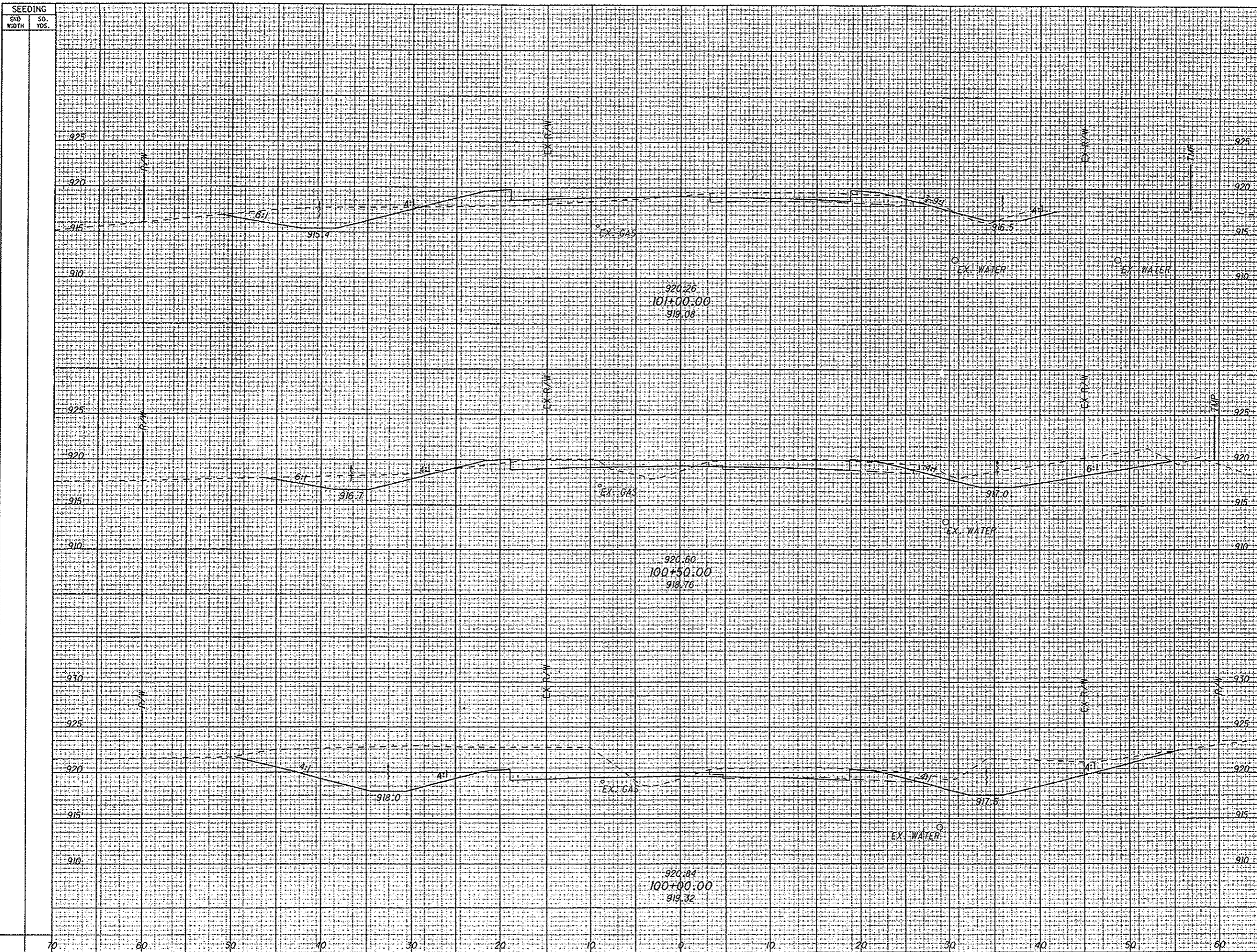


CROSS SECTIONS - THORNWOOD
STA. 99+00.00 TO STA. 99+50.00

LIC-THORNWOOD

138
285

IP_P:\WP\dms08288\78116X5001.dgn 02-SEP-2009 9:42AM jlove



SEEDING

END SO. WIDTH VOS.

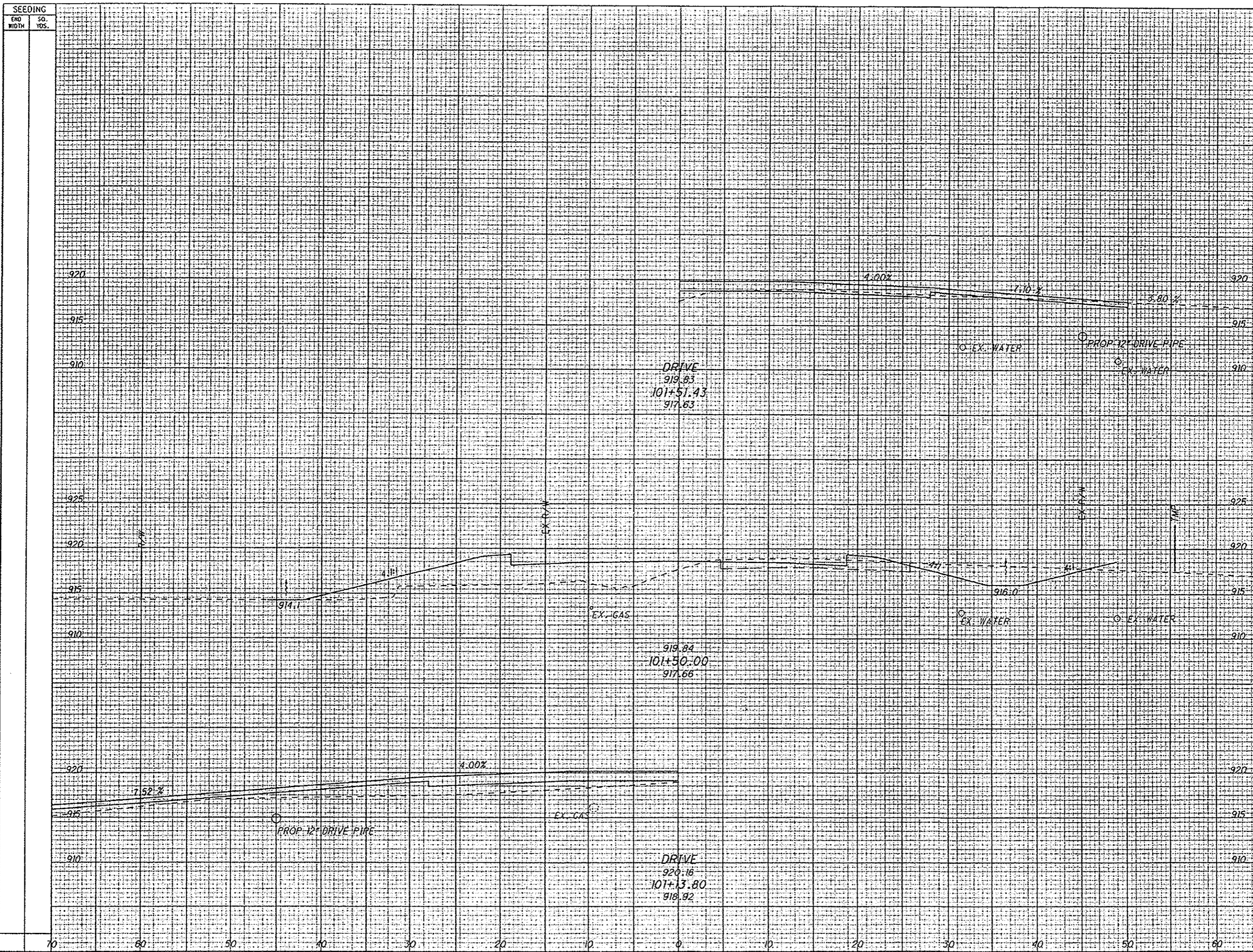
| END AREA | VOLUME | | CALCULATED | MMB CHECKED | JEL |
|----------|--------|------|------------|-------------|-----|
| | CUT | FILL | | | |
| | | | | | |

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

LIC-THORNWOOD

139
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:42AM prove



| SEEDING | | END AREA | | VOLUME | |
|-----------|----------|----------|------|--------|------|
| END WIDTH | SO. YOS. | CUT | FILL | CUT | FILL |
| | | | | | |

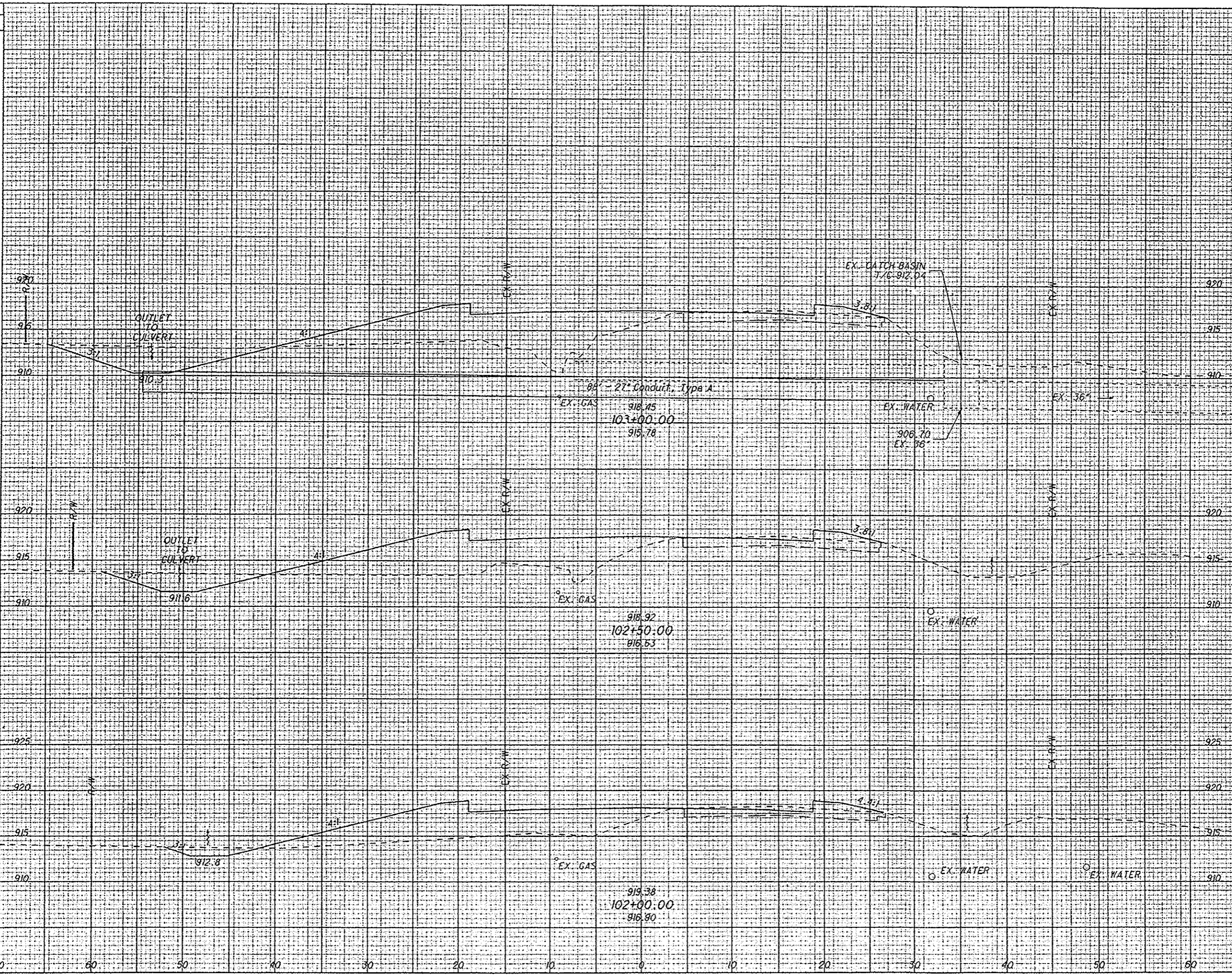
| CALCULATED | MMB | CREATED | JEL |
|------------|-----|---------|-----|
| | | | |

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

LIC-THORNWOOD

ip_pwf.dms08268\78116x5001.dgn 02-SEP-2009 9:42AM jlove

SEEDING
END SO.
NORTH YDS.

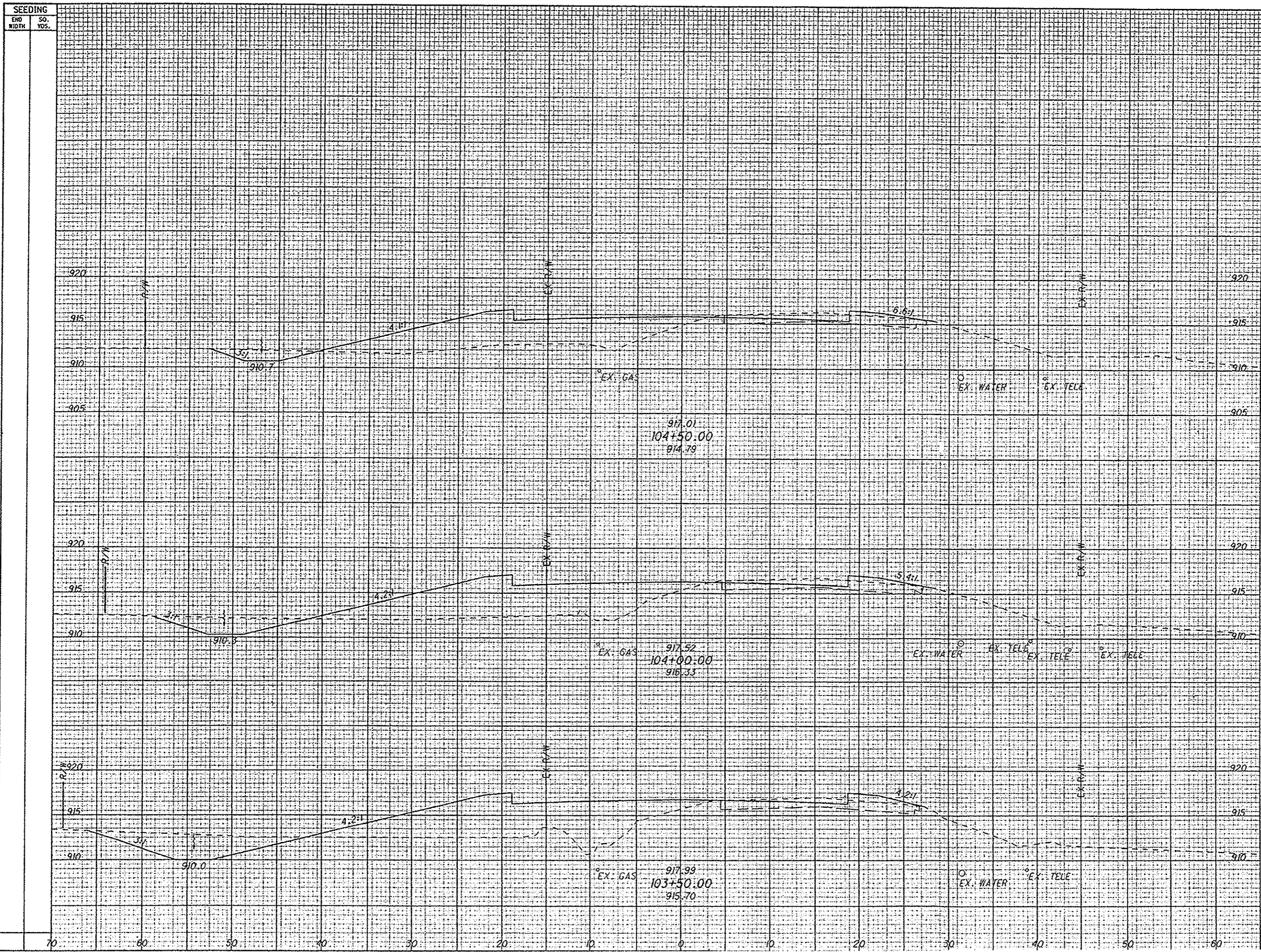


| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

| CALCULATED | MMB | CREED | JEL |
|------------|-----|-------|-----|
| | | | |

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

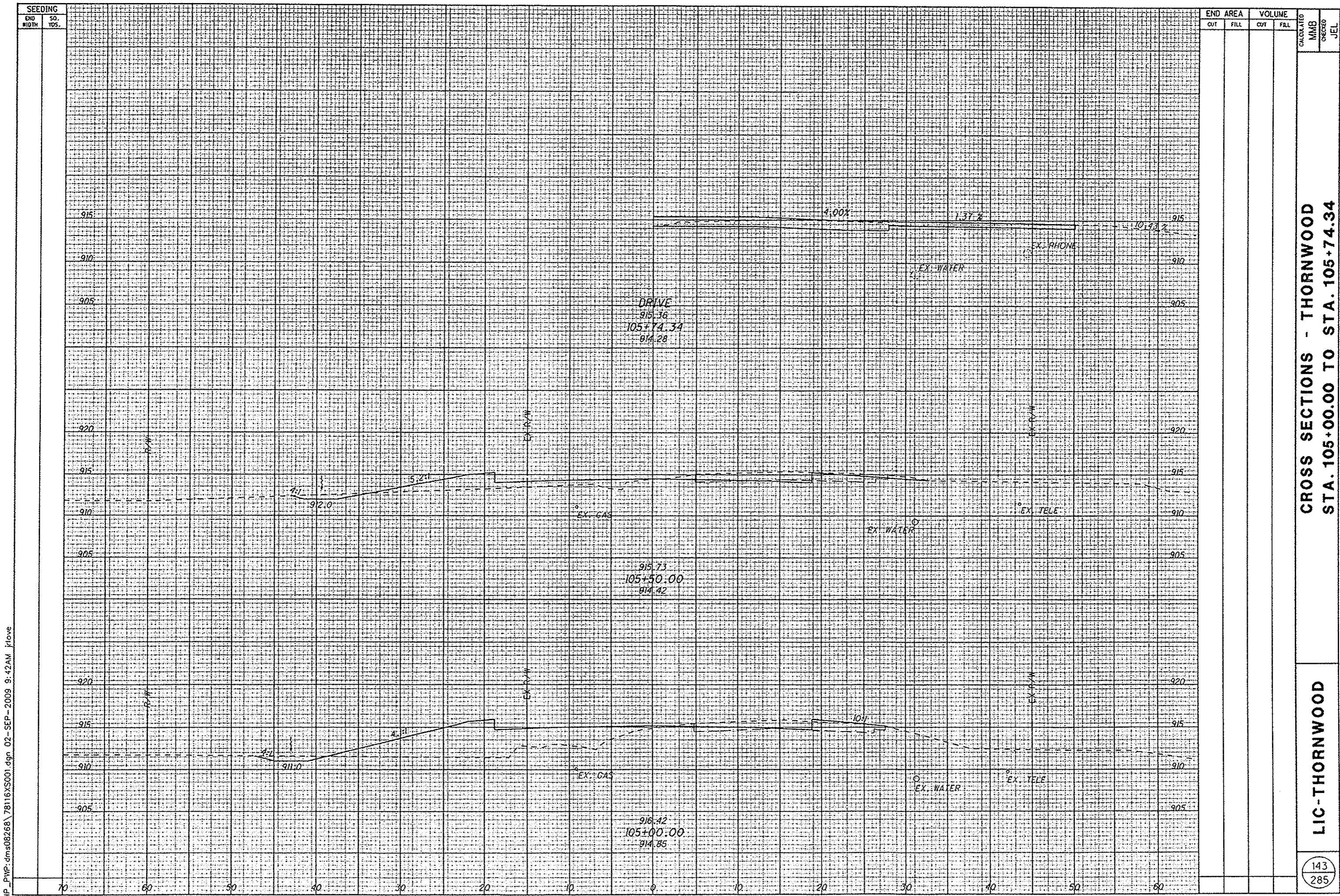
LIC-THORNWOOD



| END AREA | VOLUME | | CALCULATED | MMB | CSGAP | JEL |
|----------|--------|------|------------|-----|-------|-----|
| | CUT | FILL | | | | |
| | | | | | | |

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

LIC-THORNWOOD



SEEDING
END SO.
MIDTH YOS.

| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

CALCULATED
MMB
CHECKED
JEL

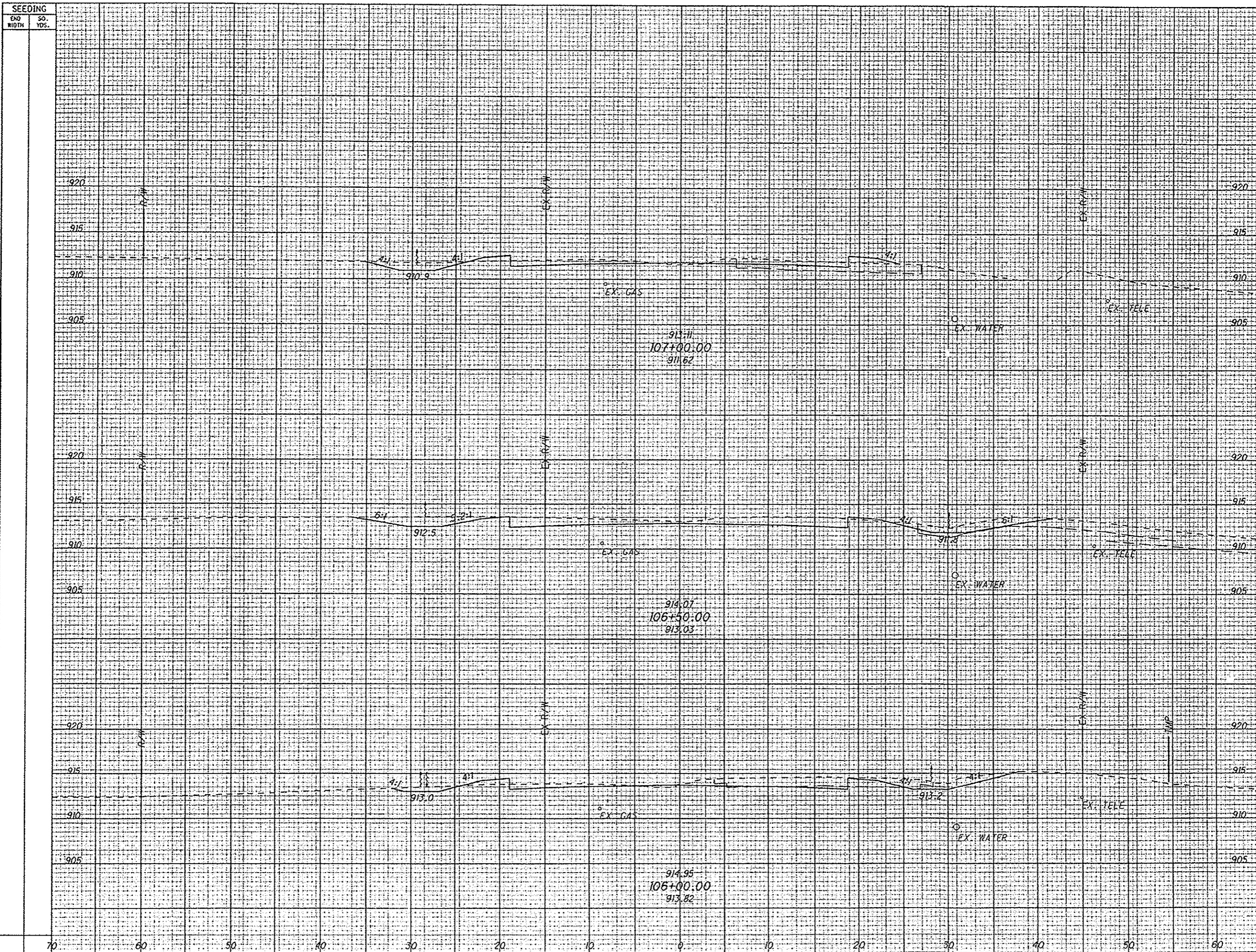
CROSS SECTIONS - THORNWOOD
STA. 105+00.00 TO STA. 105+74.34

LIC-THORNWOOD

143
285

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:42AM flove

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:43AM jrove



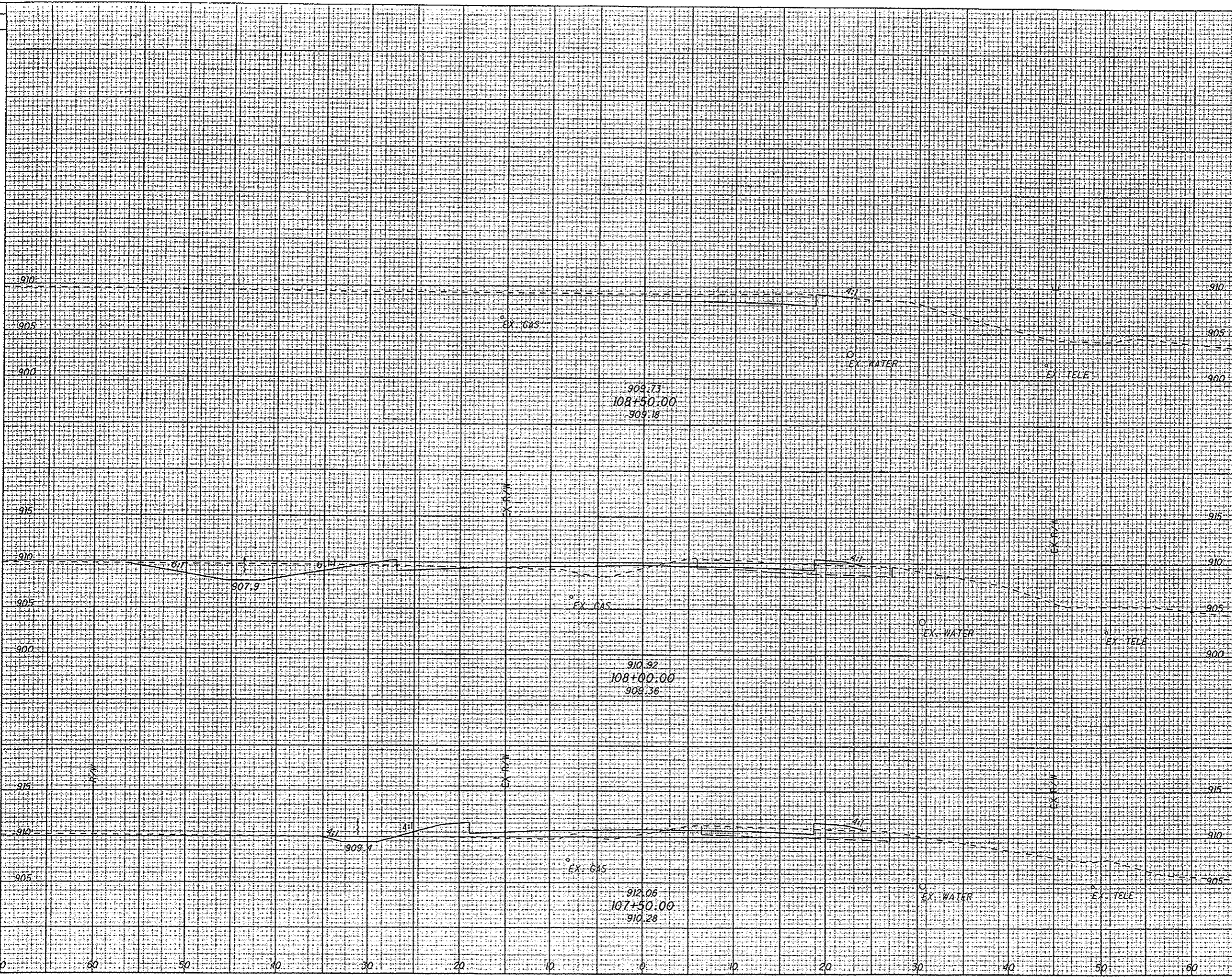
| END STA. | AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|------|--------|------|------------|-----|---------|-----|
| | CUT | FILL | CUT | FILL | | | | |
| | | | | | | | | |

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

LIC-THORNWOOD

P:\PIPE-dms08268\78116XS001.dgn 02-SEP-2009 9:43AM rlove

SEEDING
END WIDTH SO. YDS.



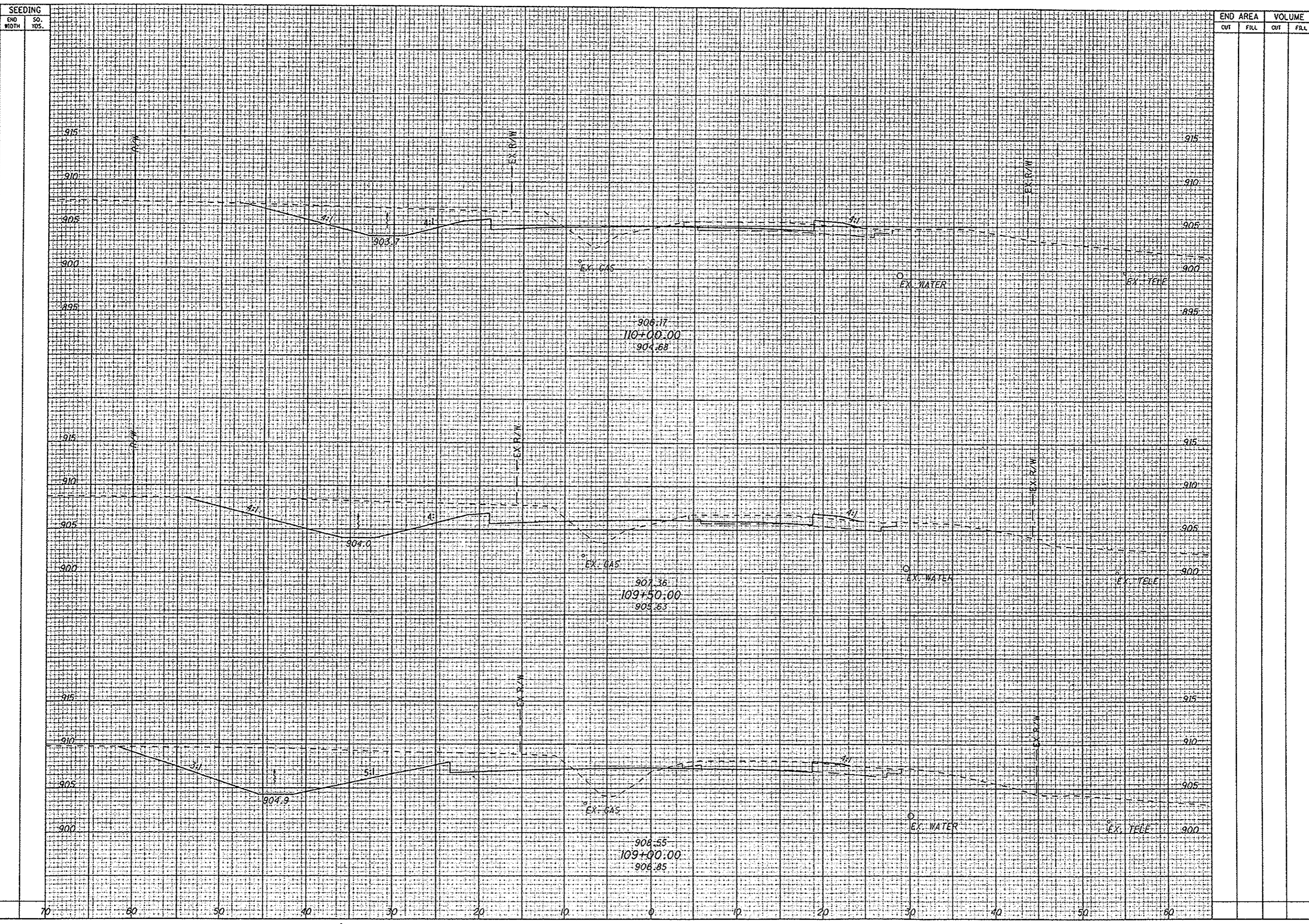
| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |
| | | | |
| | | | |

CROSS SECTIONS - THORNWOOD
STA. 107+50.00 TO STA. 108+50.00

CALCULATED
MMB
CHECKED
JEL

145
285

IP_PWP.dms08268\78116\5001.dgn 02-SEP-2009 9:43AM jfove



| END | AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|-----|------|------|--------|------|------------|-----|---------|-----|
| | CUT | FILL | CUT | FILL | | | | |
| | | | | | | | | |

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

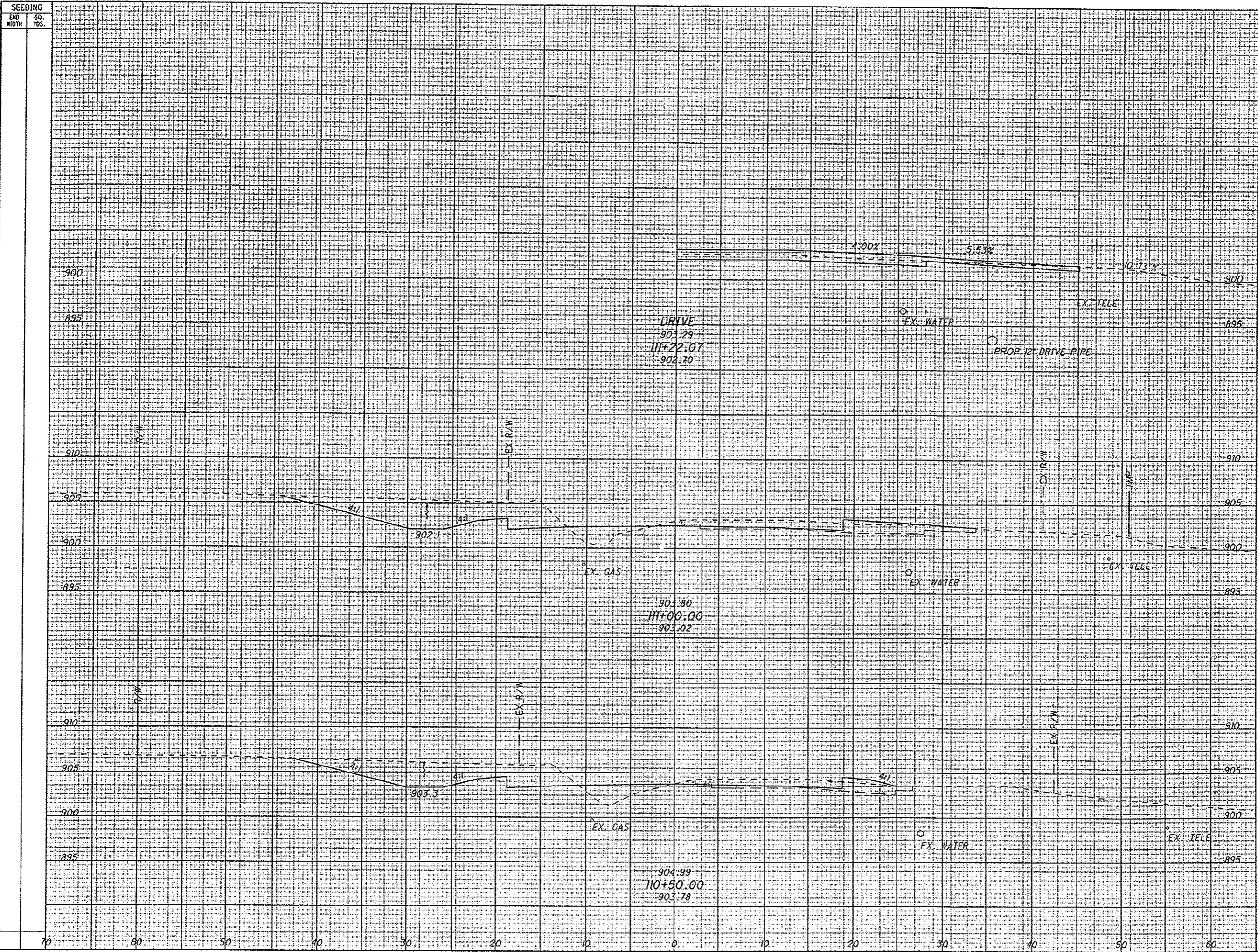
LIC-THORNWOOD

P:\WP\dms08268\78116XS001.dgn 02-SEP-2009 9:43AM jlove

SEEDING
END SO
WIDTH YDS.

END AREA
OUT FILL
VOLUME
OUT FILL

CALCULATED
MMB
CREATED
JEL



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

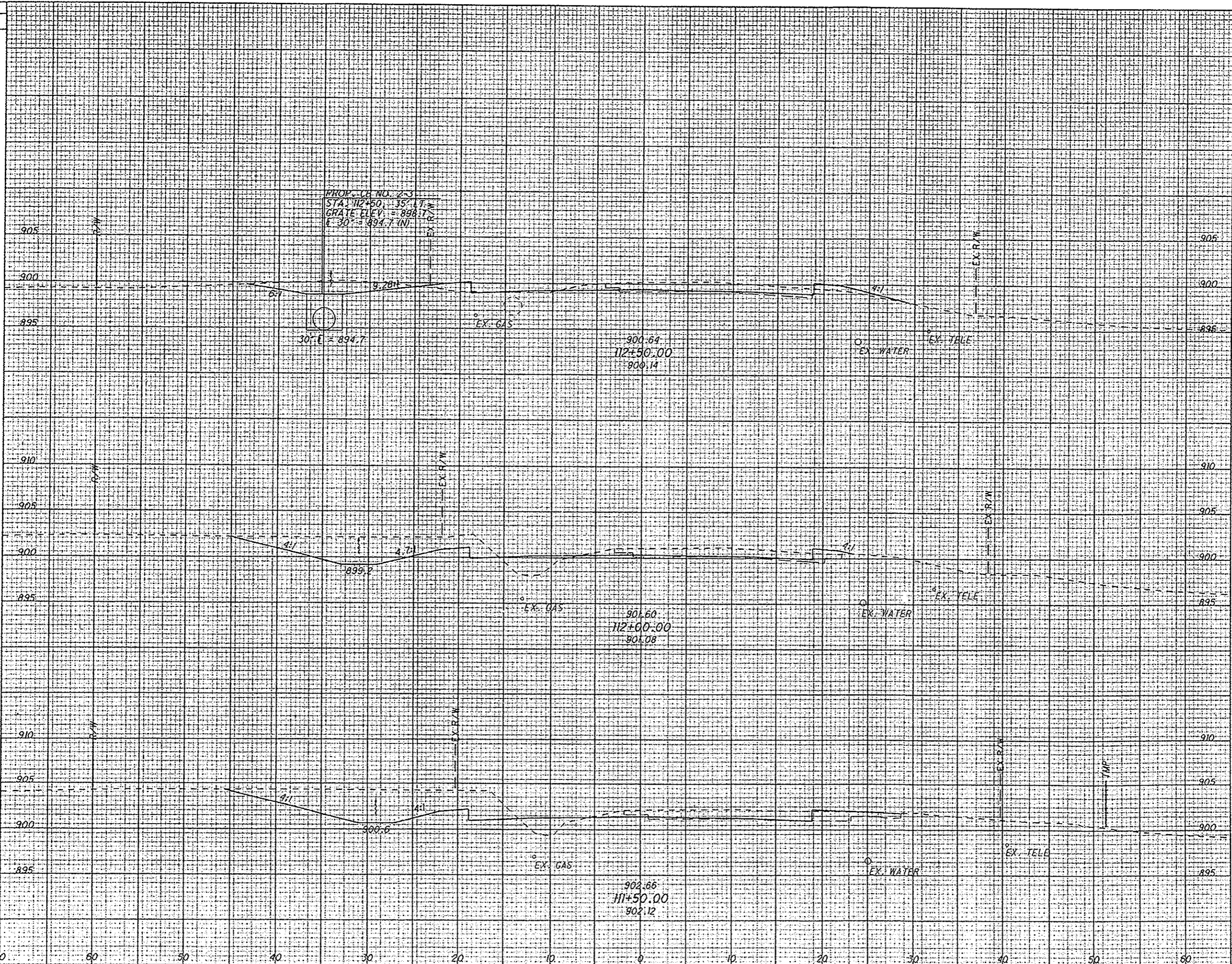
LIC-THORNWOOD

147
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:43AM jrove

SEEDING

END SO. WIDTH YDS. YDS.



END AREA VOLUME

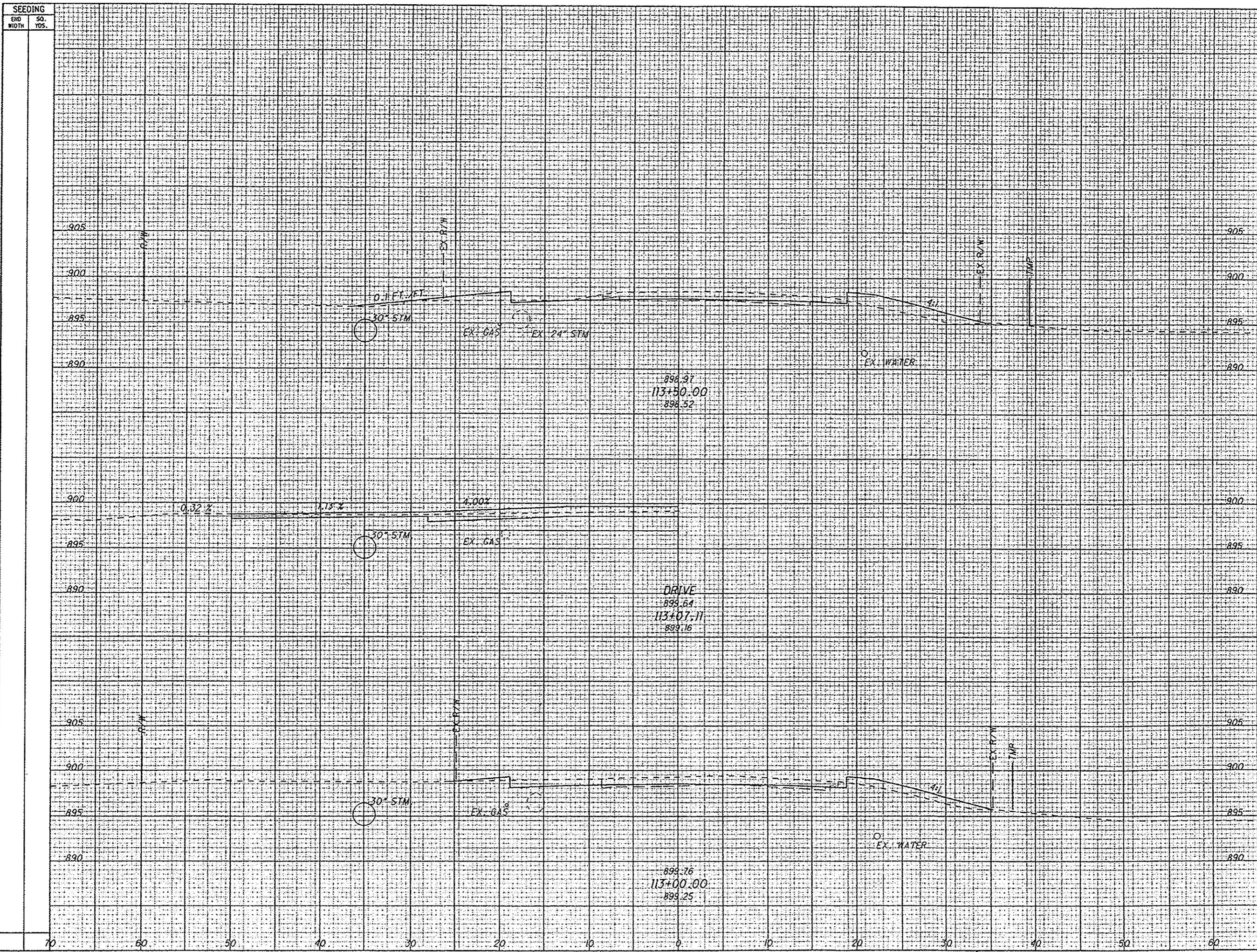
CUT FILL CUT FILL

CALCULATED MMB CHECKED JEL

CROSS SECTIONS - THORNWOOD
STA. 111+50.00 TO STA. 112+50.00

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:44AM jrove



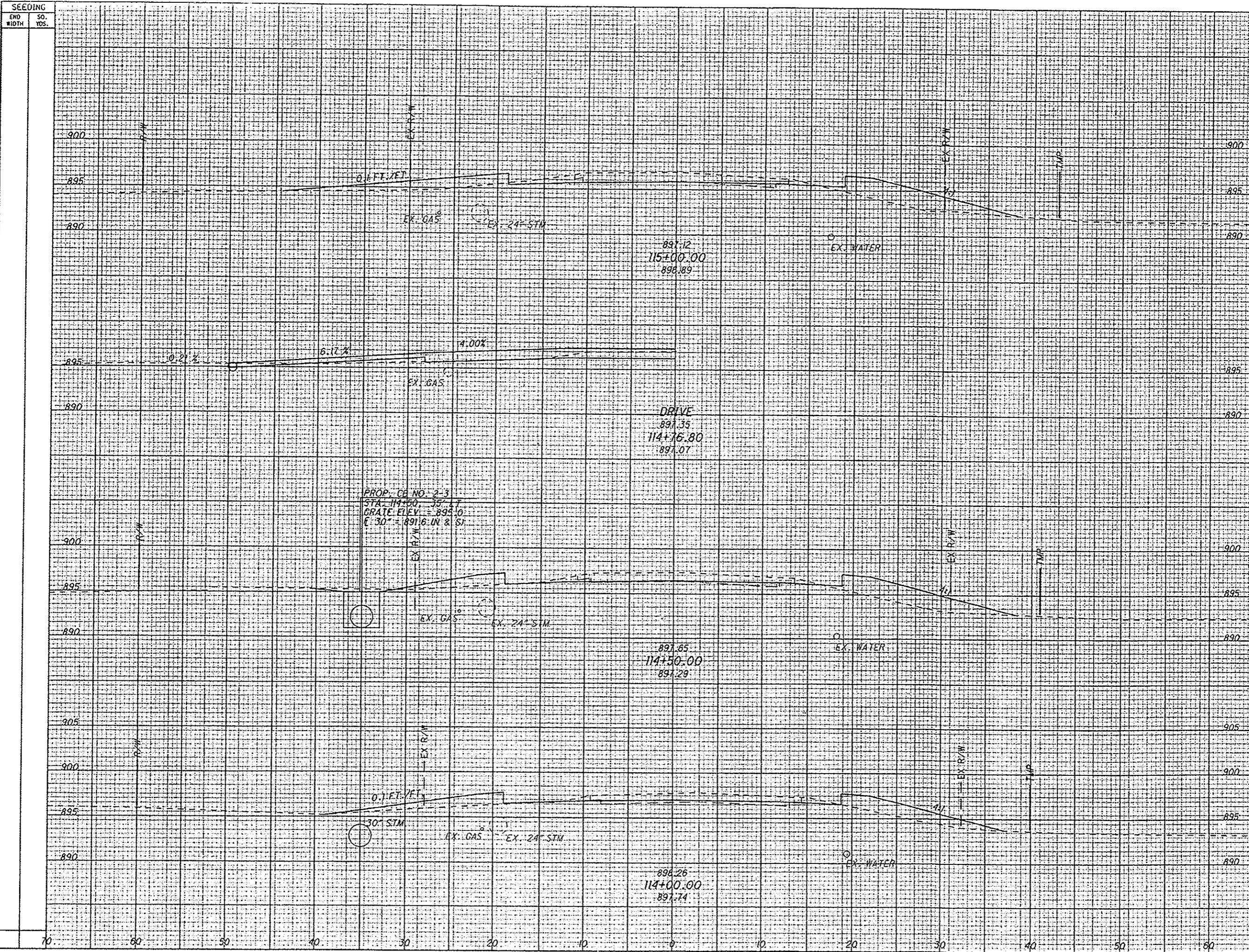
| SEEDING | | END AREA | | VOLUME | |
|-----------|----------|----------|------|--------|------|
| END WIDTH | SO. YDS. | CUT | FILL | CUT | FILL |
| | | | | | |

| CALCULATED | |
|------------|--------|
| MMB | CRECIB |
| | JEL |

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

LIC-THORNWOOD

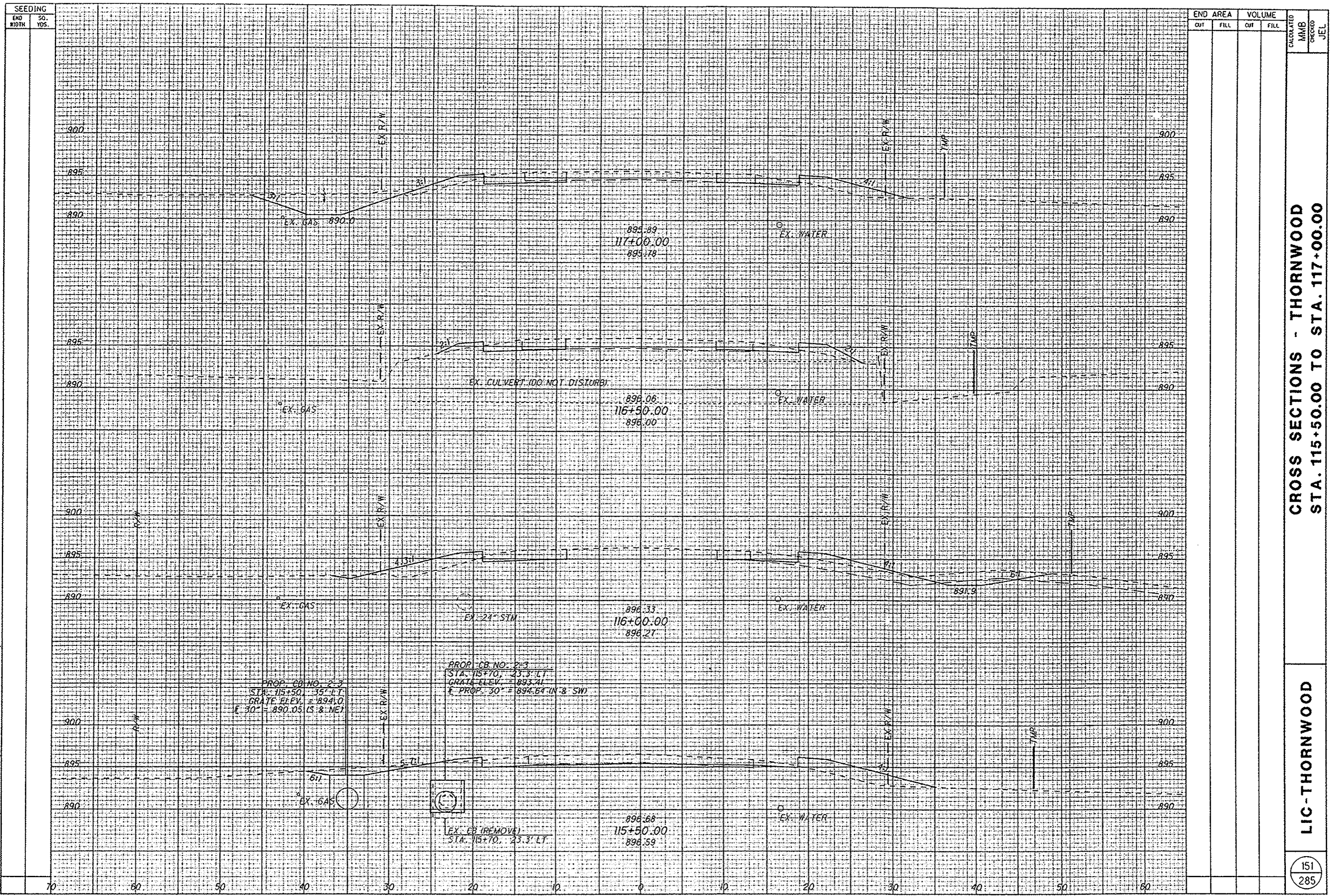
P:\WP\dms08268\78116X5001.dgn 02-SEP-2009 9:44AM jrove



| END WIDTH | SO. YDS. | END AREA | | VOLUME | |
|-----------|----------|----------|------|--------|------|
| | | CUT | FILL | CUT | FILL |
| 70 | | | | | |
| 60 | | | | | |
| 50 | | | | | |
| 40 | | | | | |
| 30 | | | | | |
| 20 | | | | | |
| 10 | | | | | |
| 0 | | | | | |
| 10 | | | | | |
| 20 | | | | | |
| 30 | | | | | |
| 40 | | | | | |
| 50 | | | | | |
| 60 | | | | | |
| 70 | | | | | |

CALCULATED MMB CHECKED JEL
CROSS SECTIONS - THORNWOOD
STA. 114+00.00 TO STA. 115+00.00
LIC-THORNWOOD
 150
 285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:44AM jlove



SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
OUT FILL OUT FILL
CALCULATED MMB MMB
CHECKED JEL

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

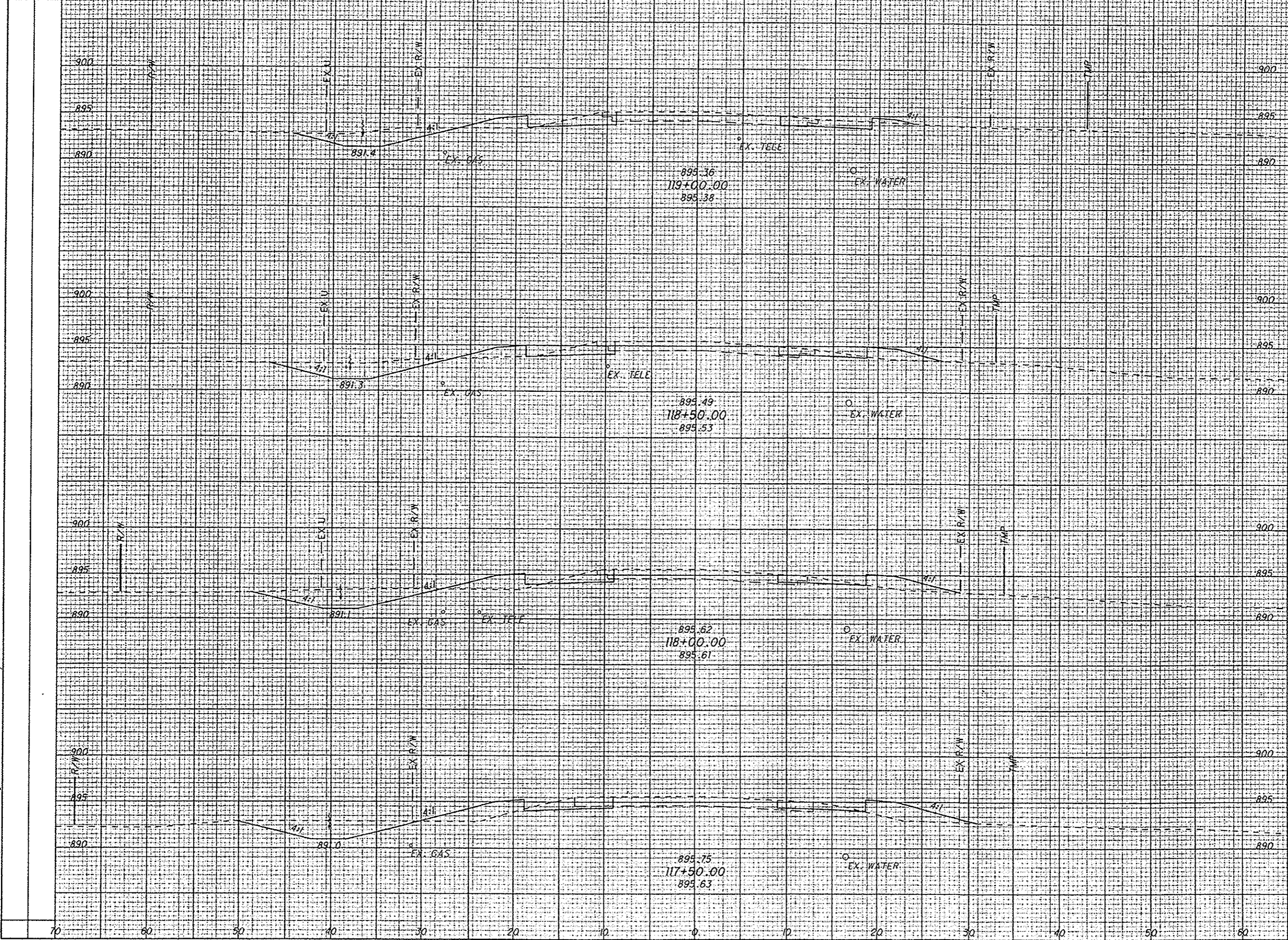
LIC-THORNWOOD

151
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:44AM jrove

SEEDING
END WIDTH SO. YDS.

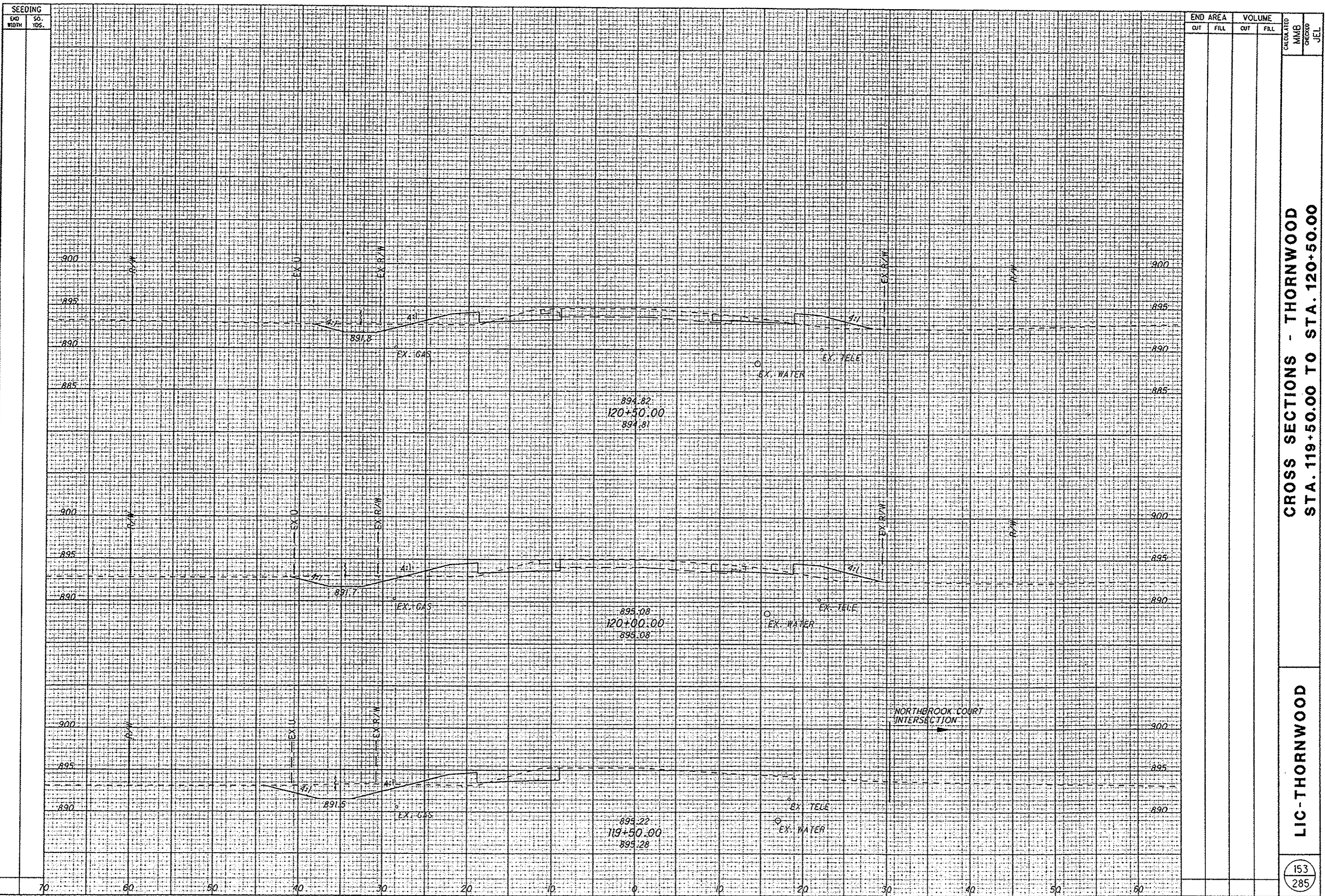
| END AREA | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|--------|------|------------|-----|---------|-----|
| | CUT | FILL | | | | |
| | | | | | | |



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

LIC - THORNWOOD

P:\PWP\dms08268\78116X5001.dgn 02-SEP-2009 9:44AM jlove



| END AREA | | VOLUME | |
|----------|------|--------|------|
| OUT | FILL | OUT | FILL |

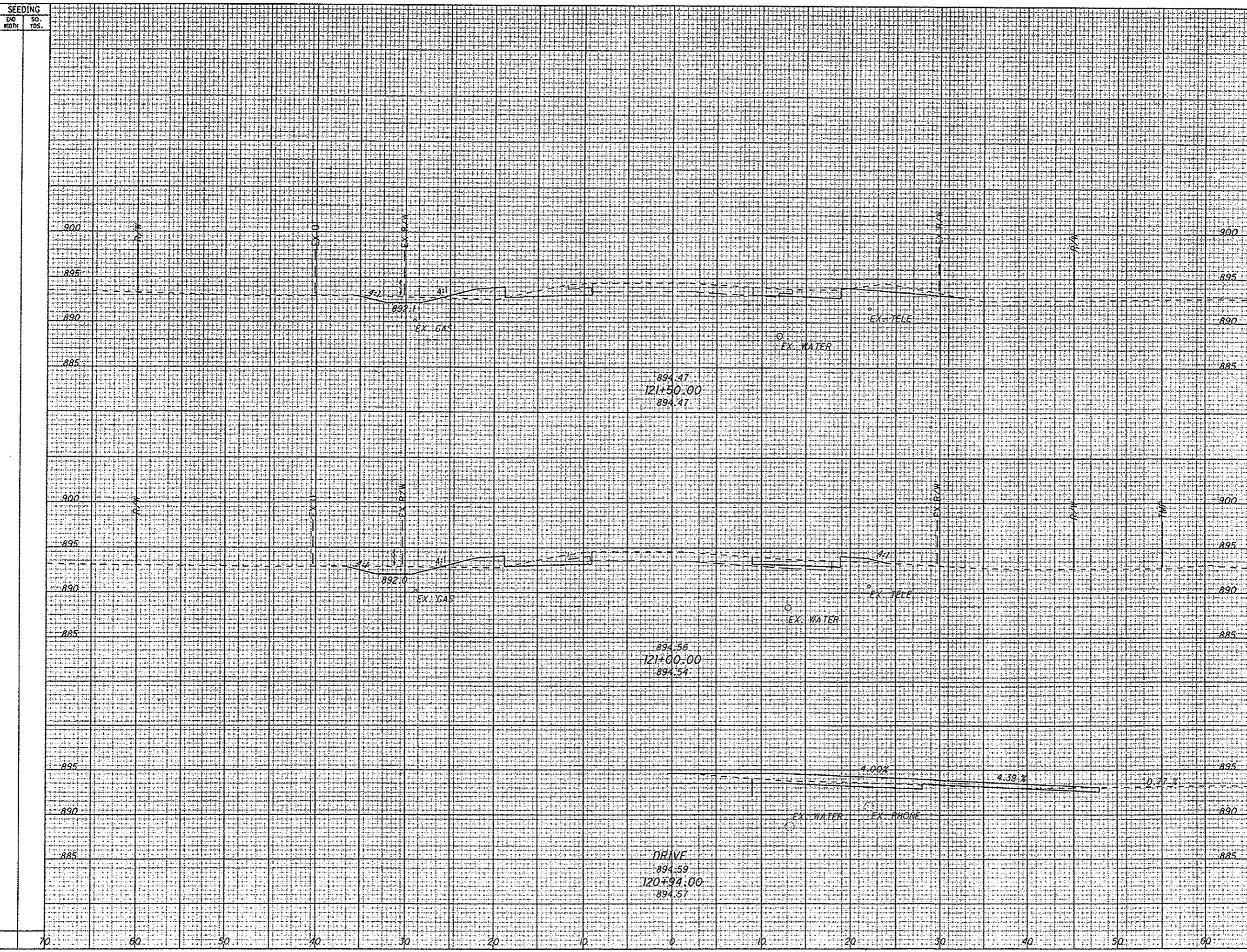
CROSS SECTIONS - THORNWOOD
STA. 119+50.00 TO STA. 120+50.00

LIC-THORNWOOD

| |
|------------|
| CALCULATED |
| MMB |
| CHECKED |
| JEL |

153
285

p:\pwp\dms08268\78116XS001.dgn 02-SEP-2009 9:45AM jrlv



| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YOS. |

| END AREA | | VOLUME | | CALCULATED | MMB | CREED | JEL |
|----------|------|--------|------|------------|-----|-------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

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

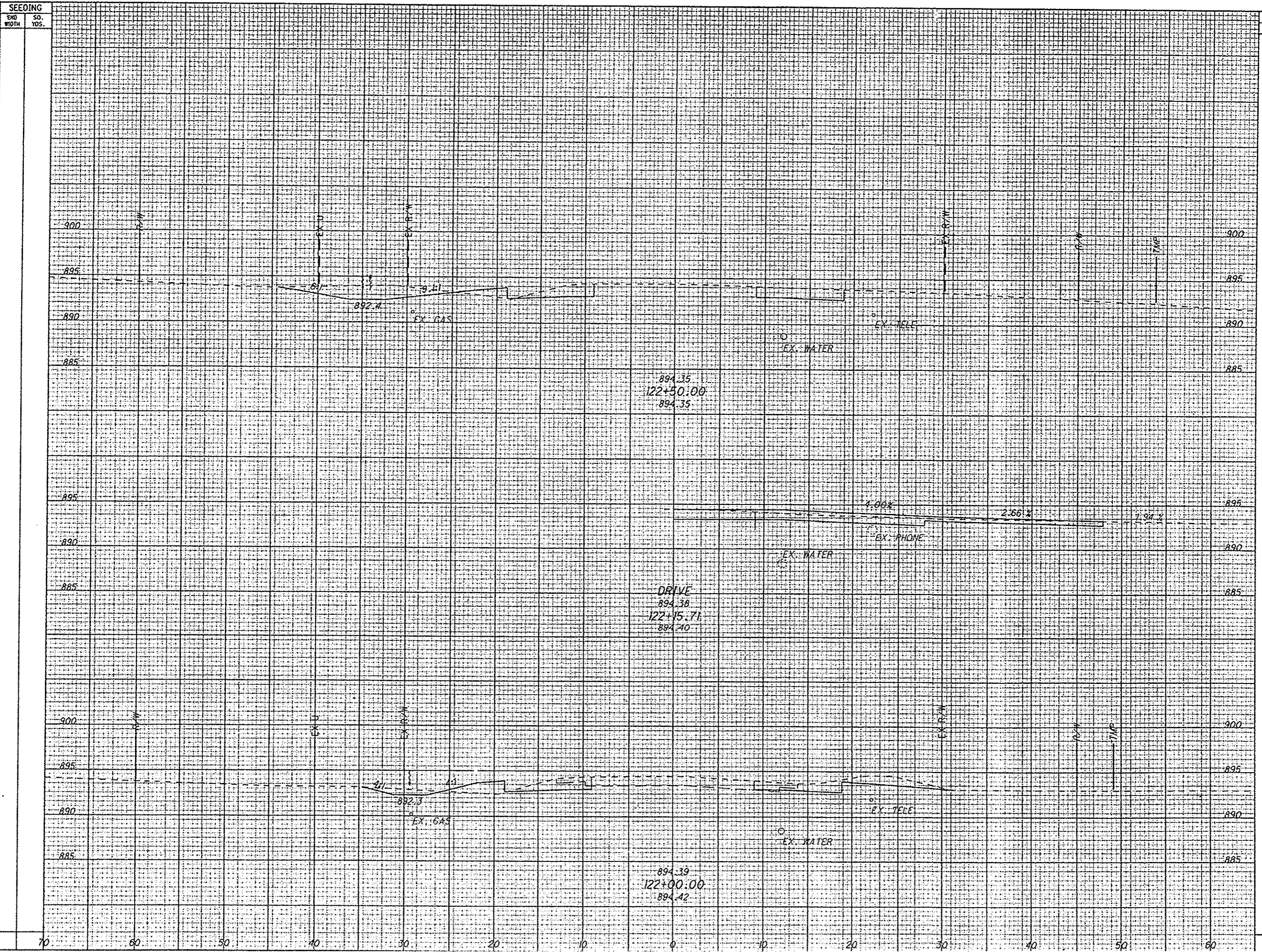
LIC-THORNWOOD

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:45AM jlove

SEEDING
END SO.
WIDTH TOS.

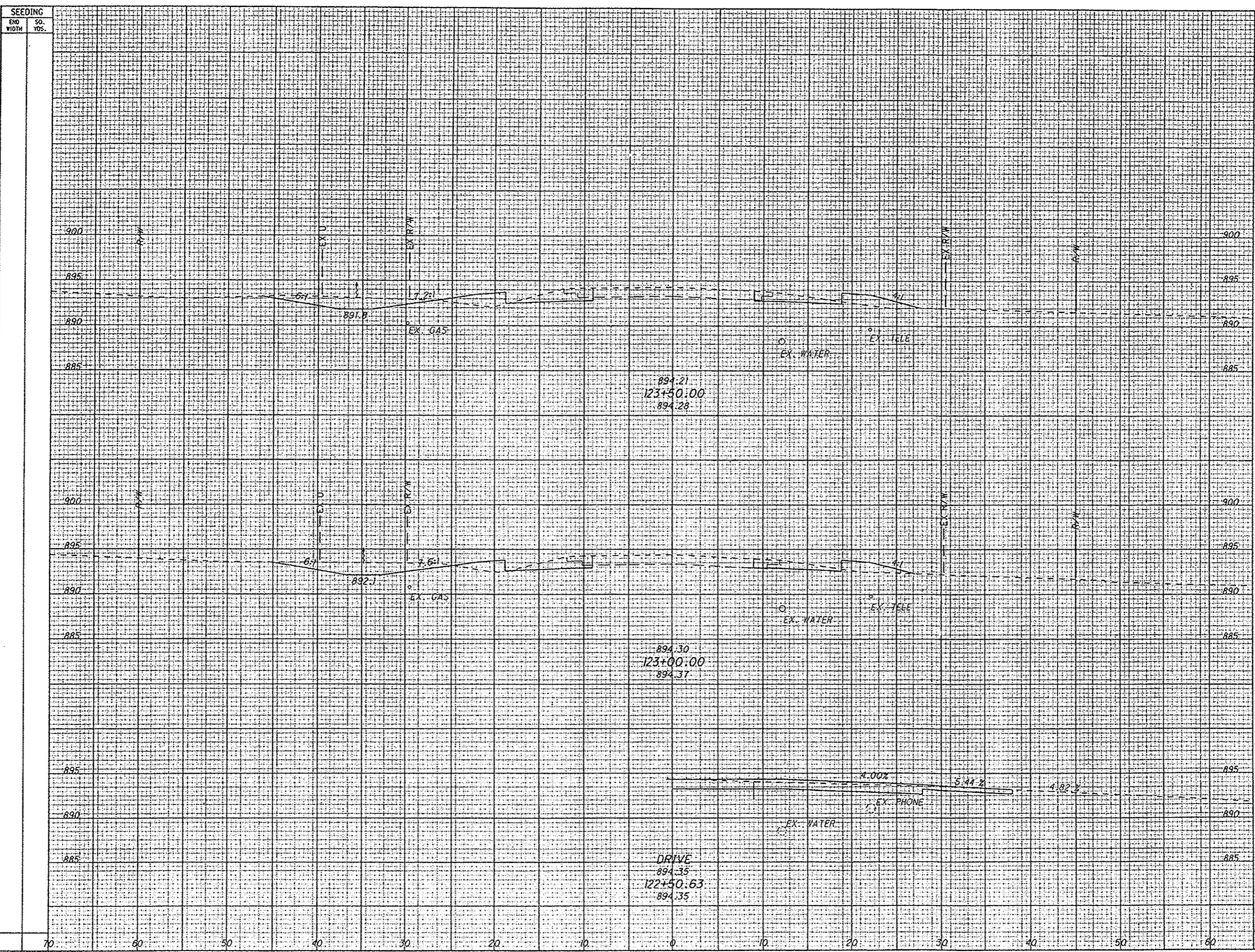
END AREA
CUT FILL
VOLUME
CUT FILL

CALCULATED
MMB
CHECKED
JEL



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

LIC-THORNWOOD



| SEEDING | | STATION | ELEVATION | END AREA | | VOLUME | |
|-----------|----------|---------|-----------|----------|------|--------|------|
| END WIDTH | SO. YDS. | | | CUT | FILL | CUT | FILL |
| | | | | | | | |

| CALCULATED | | STATION | ELEVATION | END AREA | | VOLUME | |
|------------|---------|---------|-----------|----------|------|--------|------|
| MMB | CRECIBO | | | CUT | FILL | CUT | FILL |
| | | | | | | | |

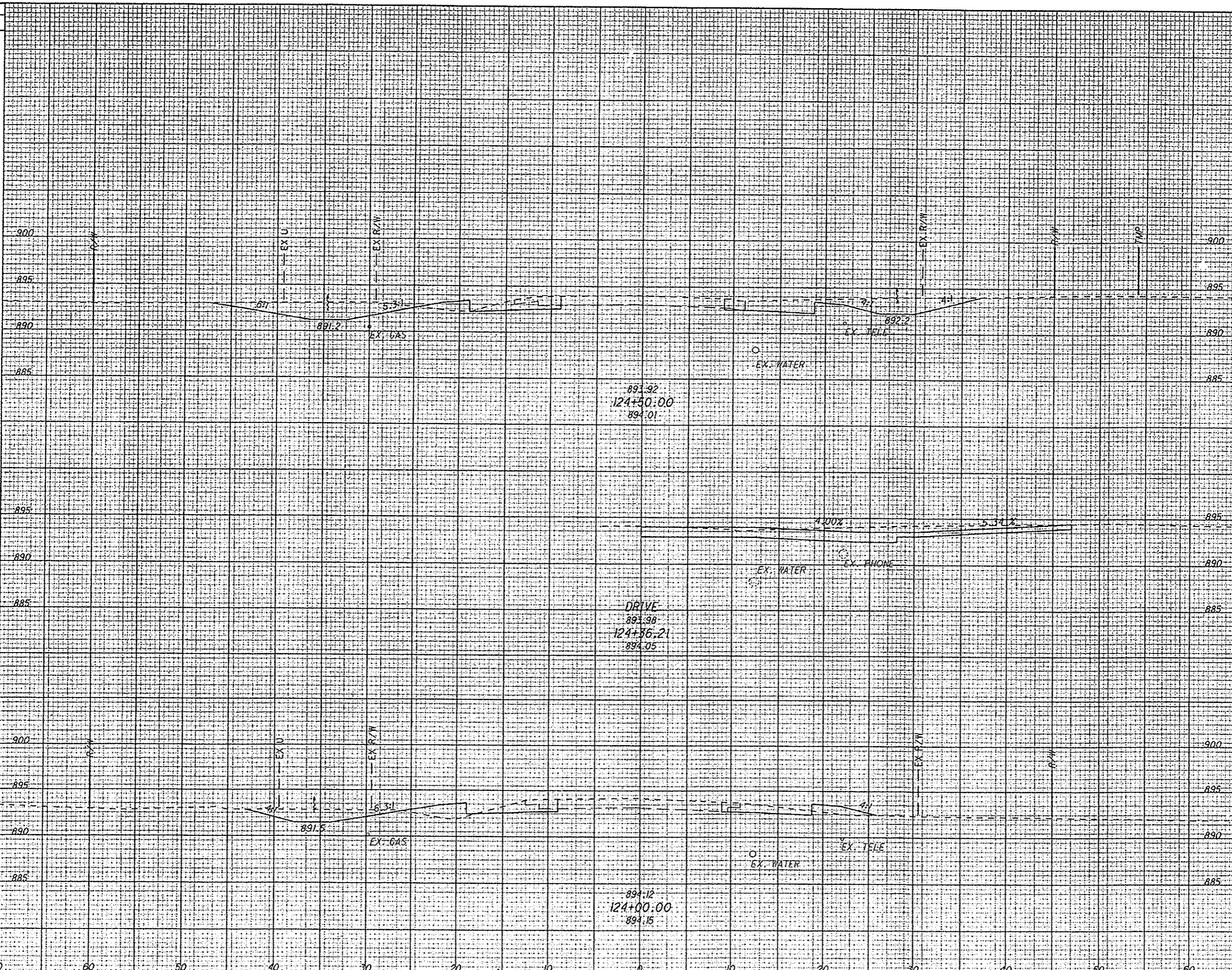
CROSS SECTIONS - THORNWOOD
 STA. 122+50.63 TO STA. 123+50.00

LIC-THORNWOOD

3_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:45AM f:\love

SEEDING
END SO.
WIDTH TOS.

| END AREA | | VOLUME | | CALCULATED | MMB CHECKED | JEL |
|----------|------|--------|------|------------|----------------|-----|
| CUT | FILL | CUT | FILL | | | |
| | | | | | | |



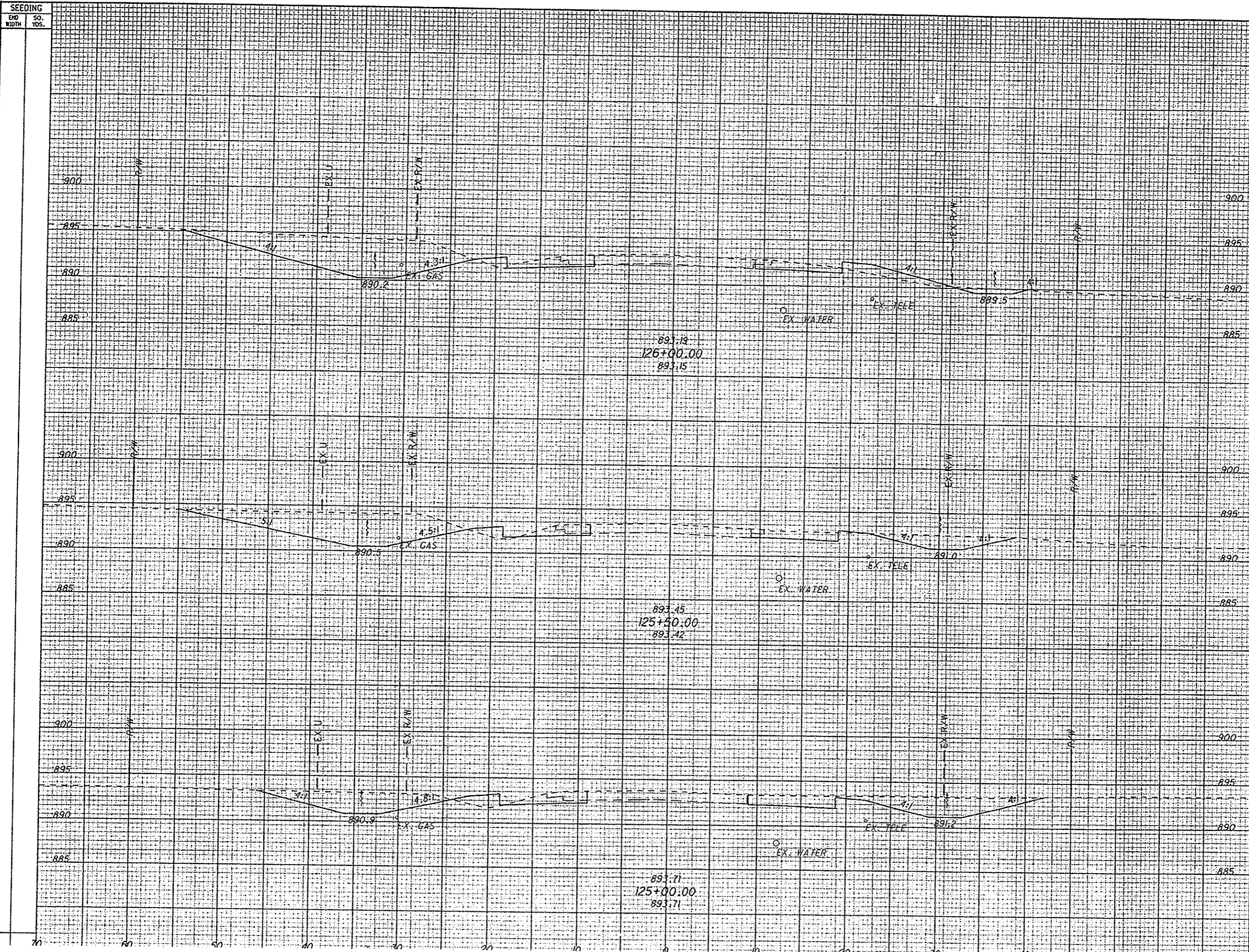
CROSS SECTIONS - THORNWOOD
STA. 124+00.00 TO STA. 124+50.00

LIC-THORNWOOD

1_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:45AM jlove

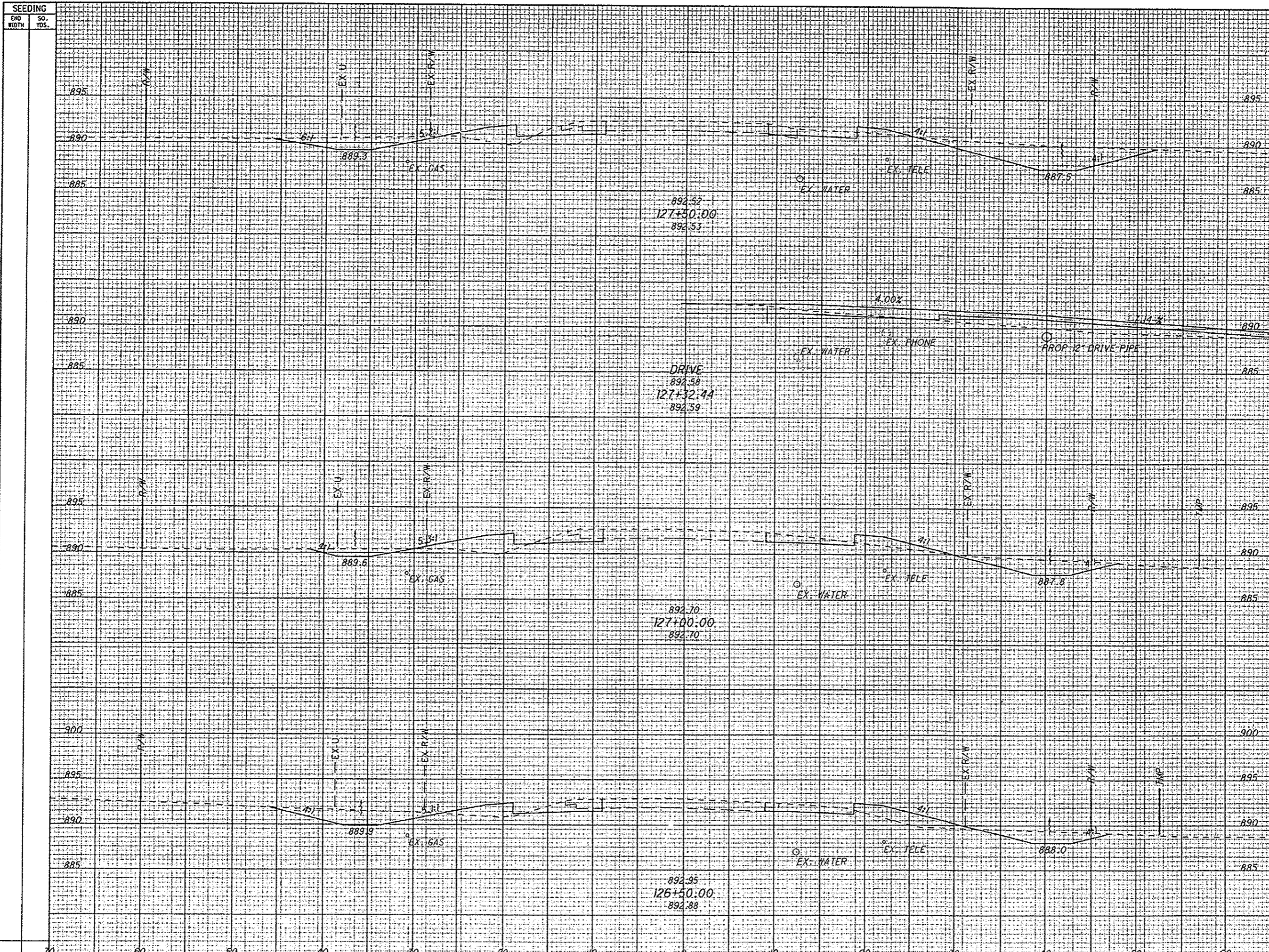
SEEDING
END WIDTH SO. YDS.

| END AREA | | VOLUME | | CALCULATED MMB | CREATED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |



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

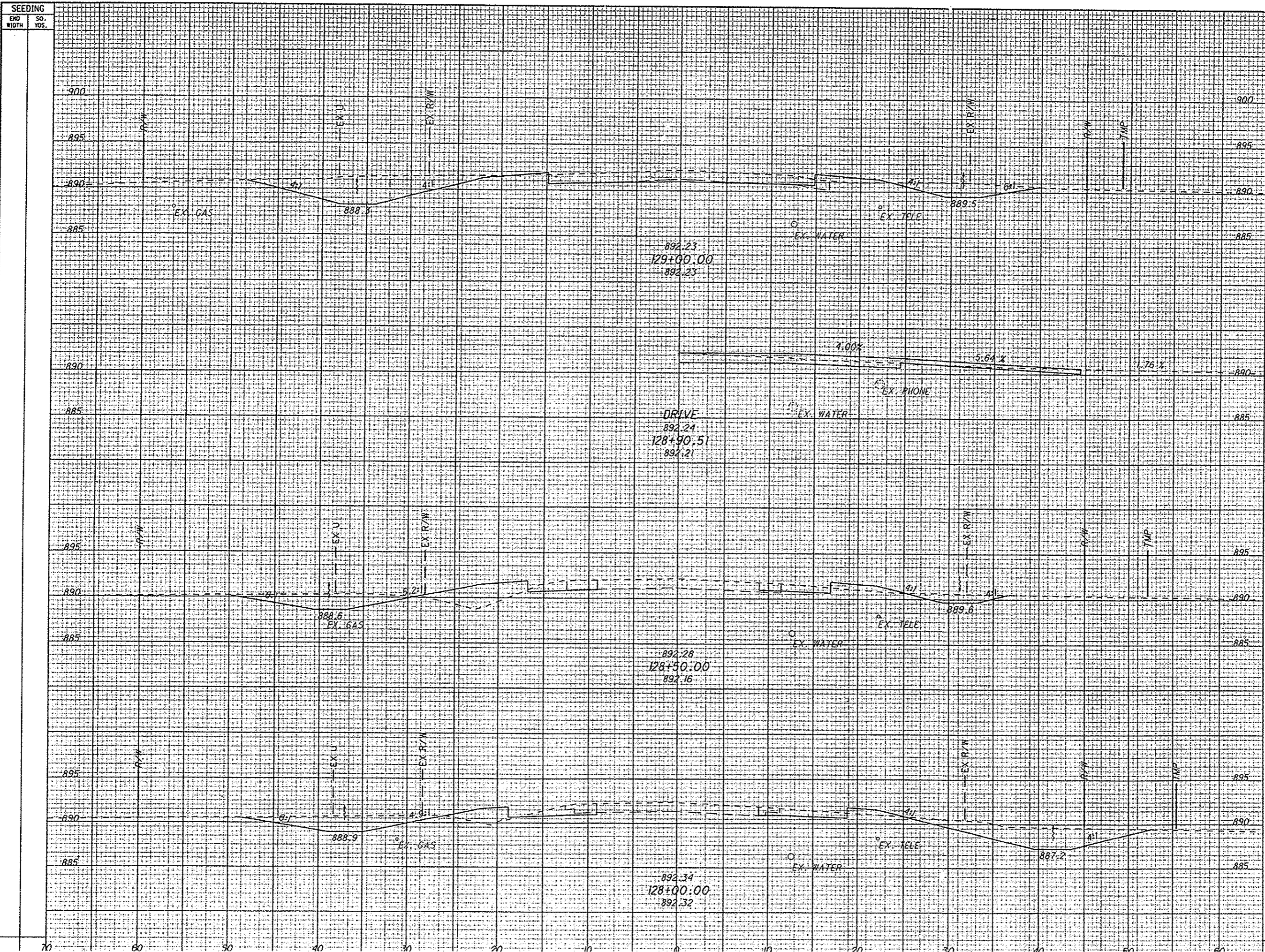
LIC-THORNWOOD



| END STA. | END AREA | | VOLUME | |
|-----------|----------|------|--------|------|
| | CUT | FILL | CUT | FILL |
| 126+50.00 | | | | |
| 127+00.00 | | | | |
| 127+50.00 | | | | |

CALCULATED MMB CHECKED JEL
LIC-THORNWOOD
CROSS SECTIONS - THORNWOOD
STA. 126+50.00 TO STA. 127+50.00

2_PWP.dms08268\78116\SC01.dgn 02-SEP-2009 9:46AM jlove

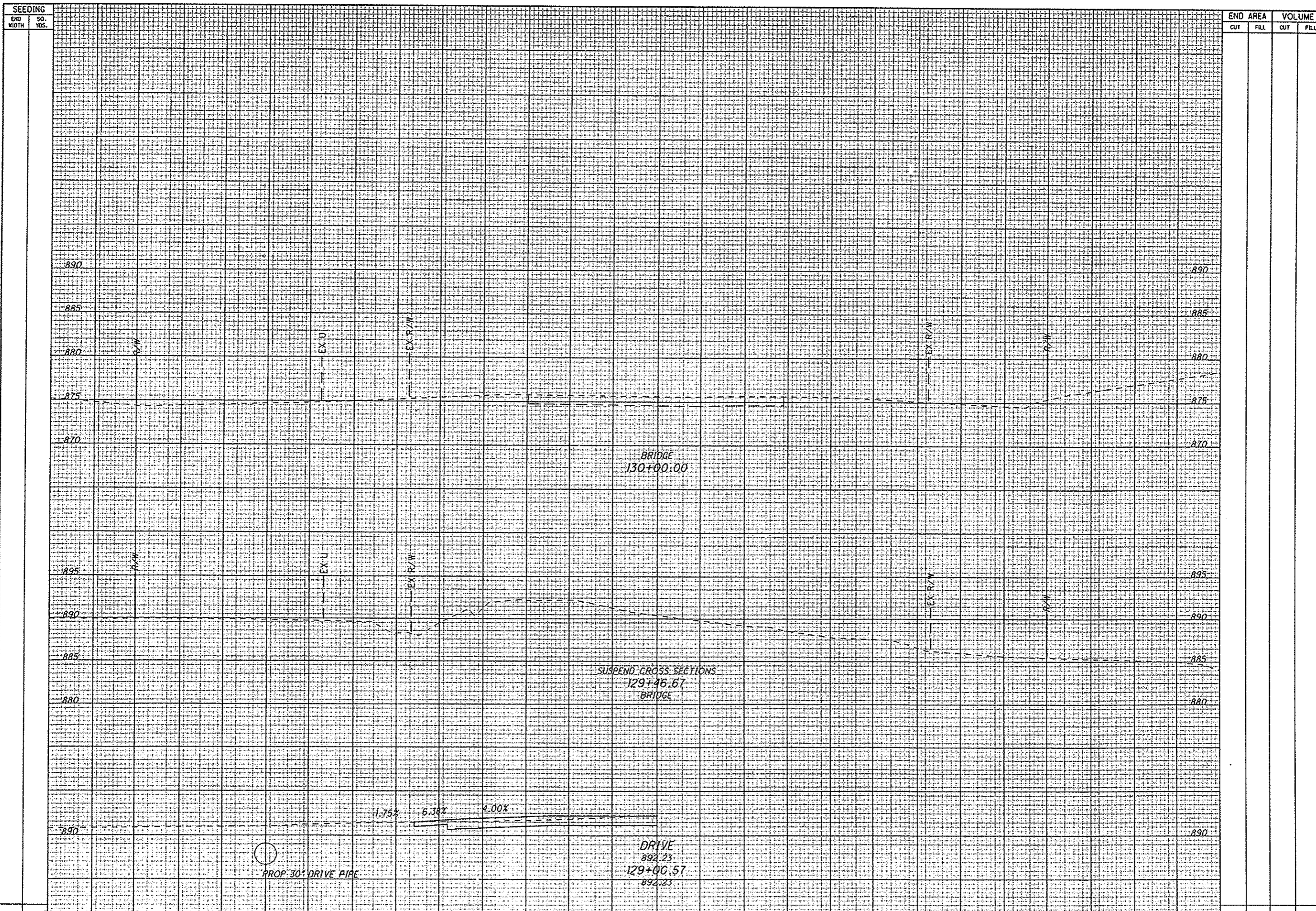


| SEEDING | | END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|-----------|----------|----------|------|--------|------|------------|-----|---------|-----|
| END WIDTH | SO. YOS. | OUT | FILL | OUT | FILL | | | | |
| | | | | | | | | | |

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

LIC-THORNWOOD

P:\WP-dms08268\78116XS001.dgn 02-SEP-2009 9:46AM jlove

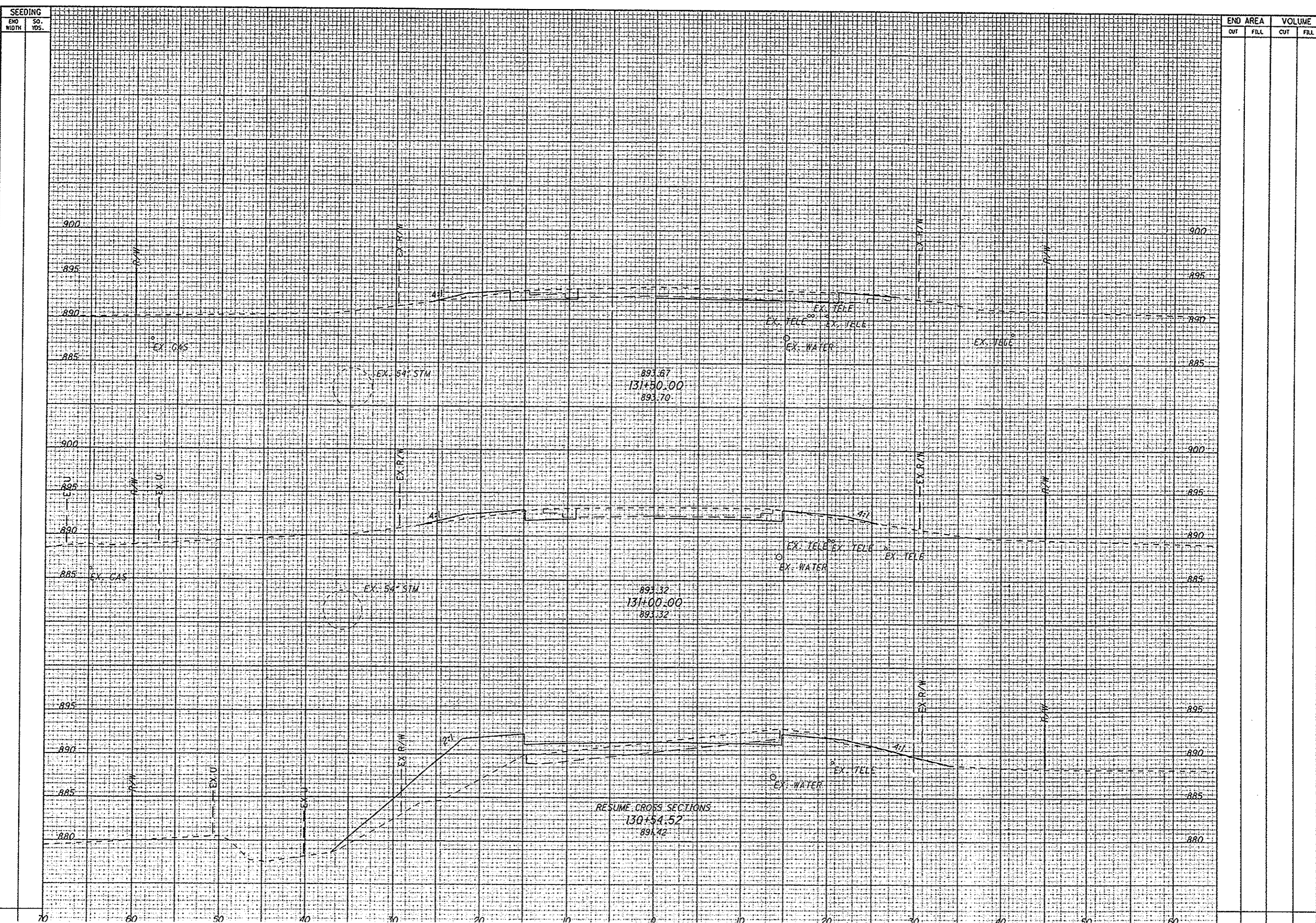


| SEEDING | | END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|-----------|----------|----------|------|--------|------|------------|-----|---------|-----|
| END WIDTH | SO. YDS. | CUT | FILL | CUT | FILL | | | | |
| | | | | | | | | | |

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

LIC-THORNWOOD

P:\WP\dms08268\78116X5001.dgn 02-SEP-2009 9:46AM jlove



| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |
| | |

| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

| CALCULATED | MINOR | CHECKED | JEL |
|------------|-------|---------|-----|
| | | | |

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

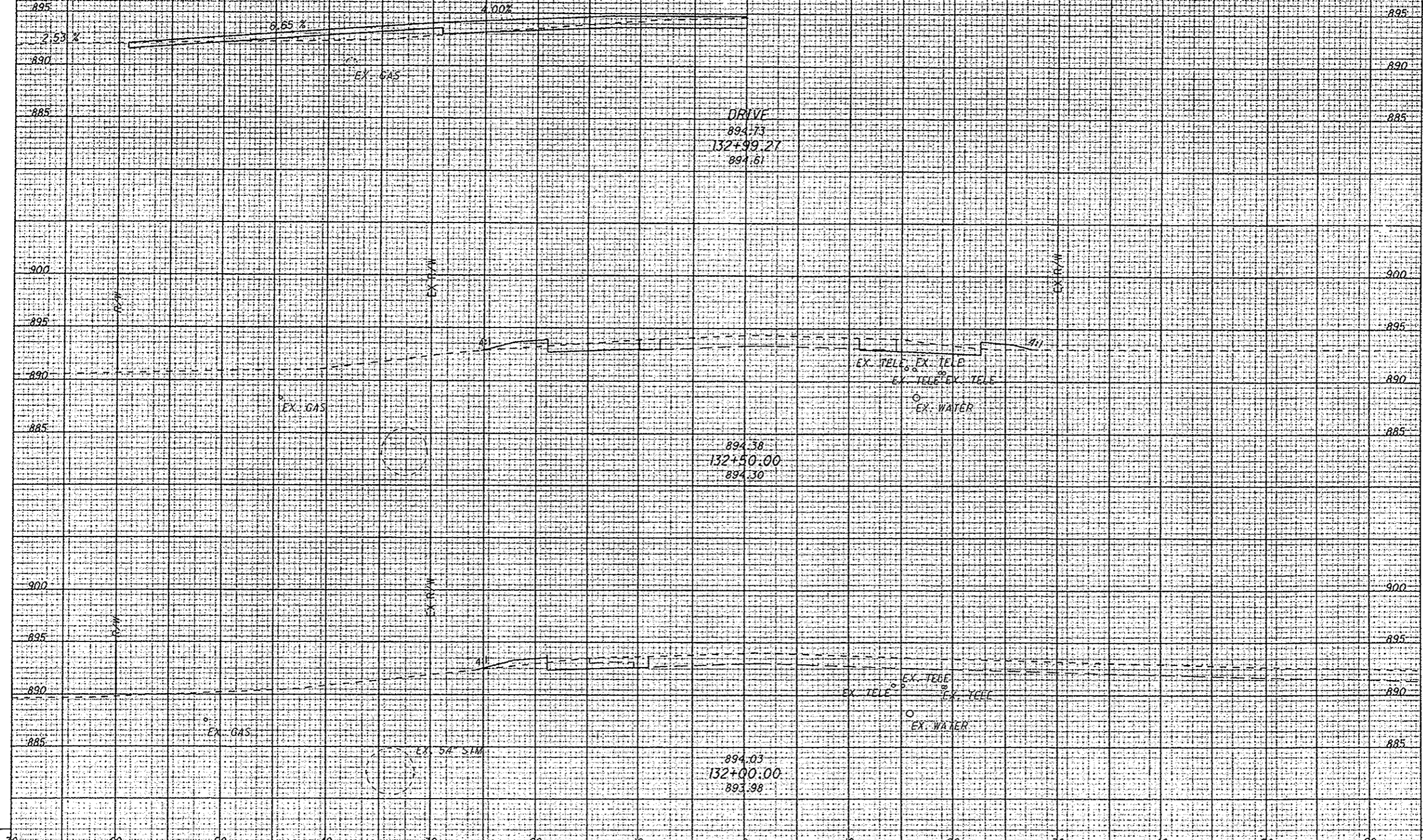
LIC-THORNWOOD

2_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:46AM jrove

SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL

CALCULATED
MMB
CHECKED
JEL



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

LIC-THORNWOOD

PWP: dms0268\78116XS001.dgn 02-SEP-2009 9:46AM prove

SEEDING
END SO.
WIDTH YCS.

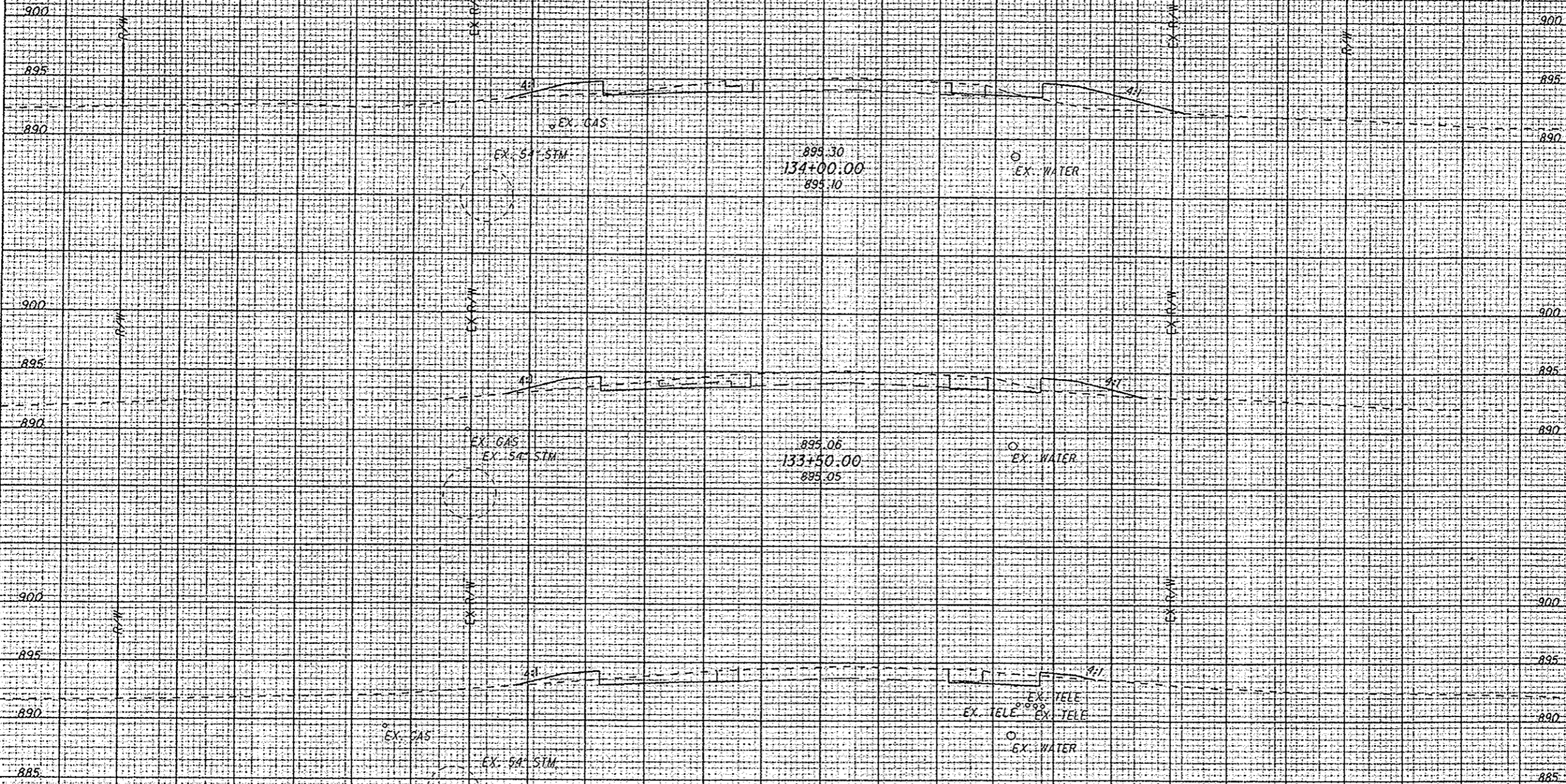
END AREA
CUT FILL
VOLUME
CUT FILL

CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

164
285

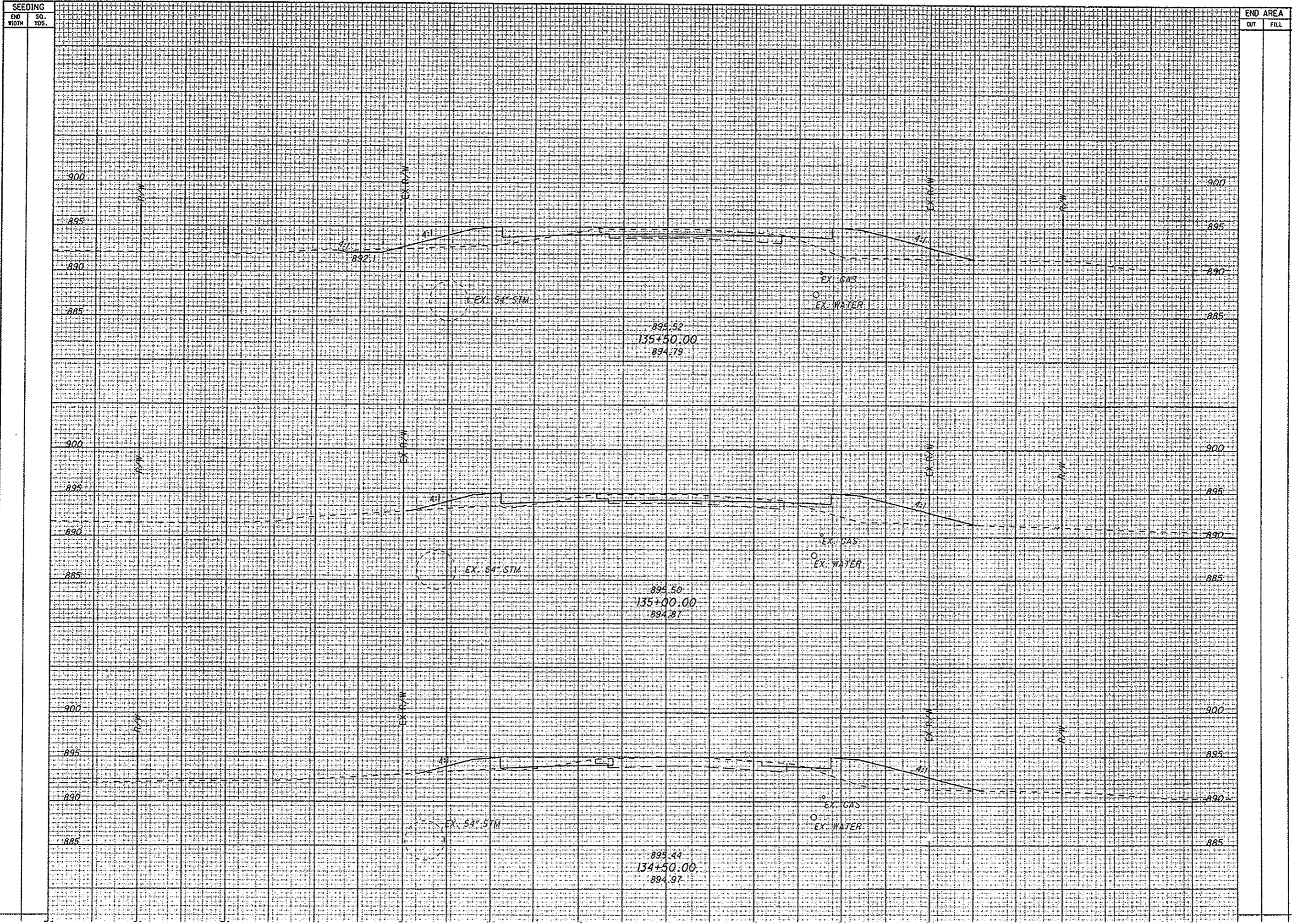


899.30
134+00.00
895.10

895.06
133+50.00
895.05

894.74
133+00.00
894.62

P:\WP\dms08268\78116\SD01.dgn_02--SEP--2009 9:46AM fllove



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

LIC-THORNWOOD

P:\WP\dms08288\78116\X5001.dgn 02-SEP-2009 9:47AM rlove

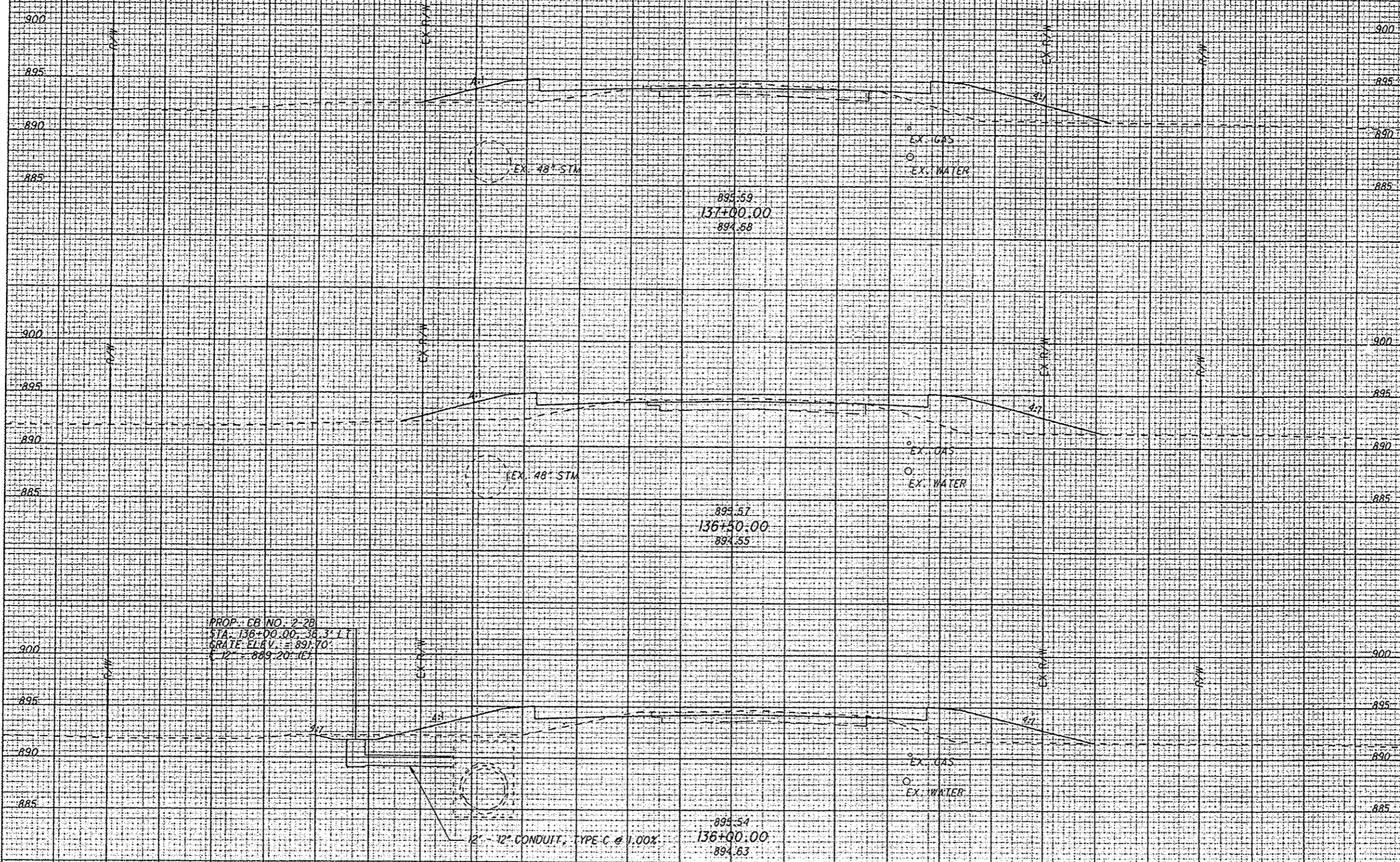
SEEDING

END SO. WIDTH YOS.

END AREA VOLUME

CUT FILL CUT FILL

CALCULATED MMB CHECKED JEL



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

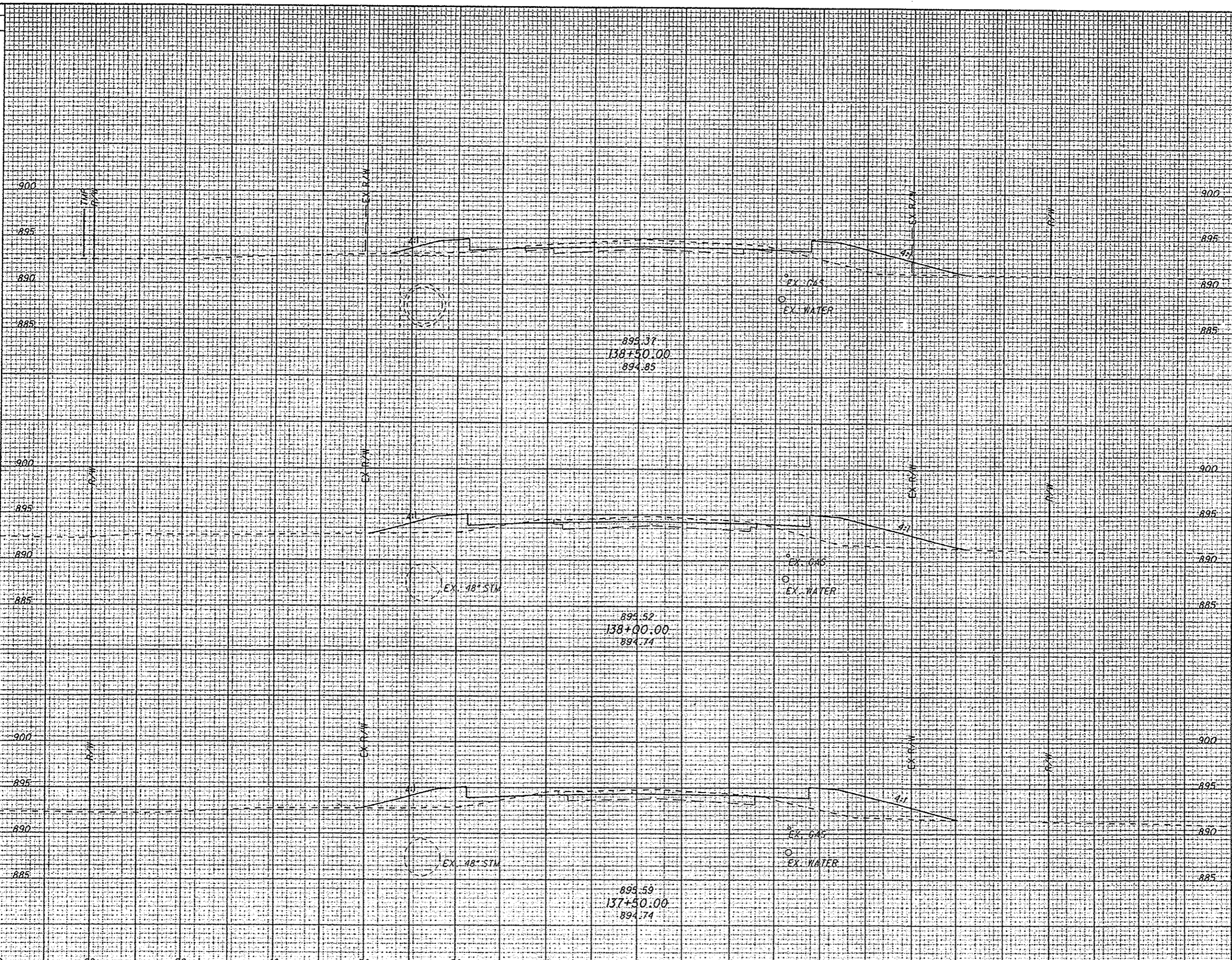
LIC - THORNWOOD

P:\WP-dm\08268\78116XS001.dgn 02-SEP-2009 9:47AM jlove

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



895.37
138+50.00
894.85

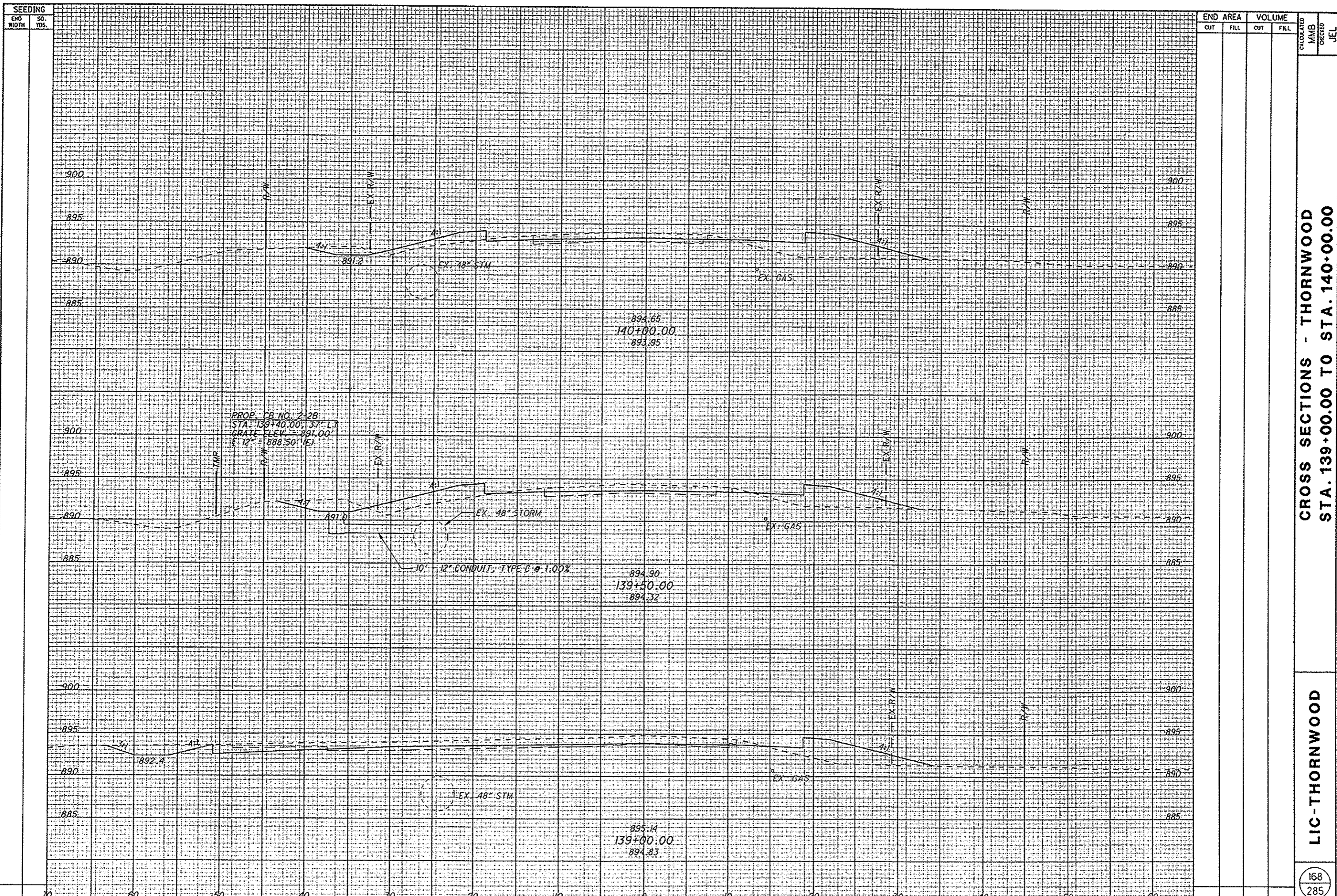
895.52
138+00.00
894.74

895.59
137+50.00
894.74

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

LIC-THORNWOOD

P:\PWP.dms\08266\78116XS001.dgn 02-SEP-2009 9:47AM jrove



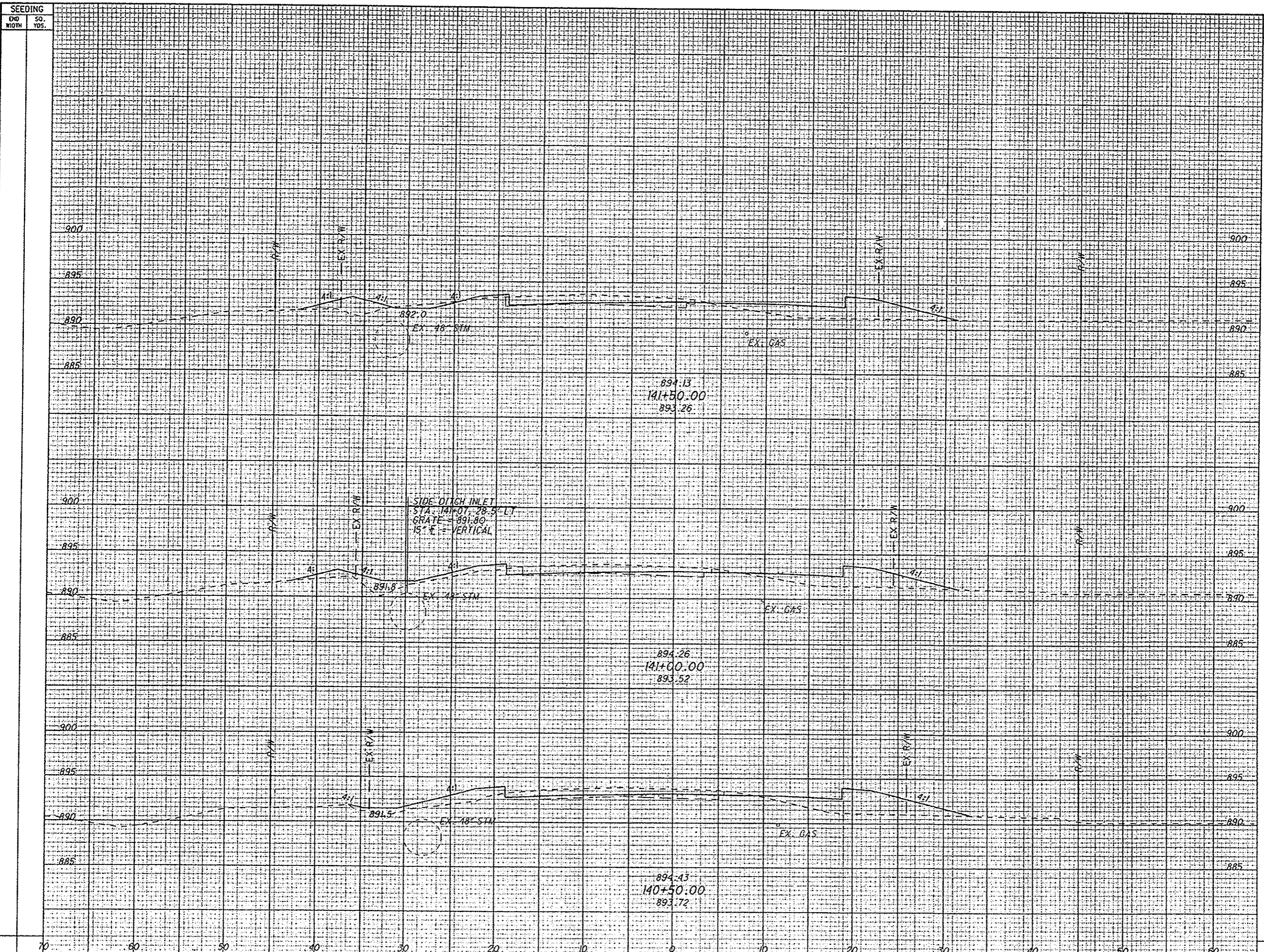
| END AREA | | VOLUME | | CALCULATED | MMMB | CHECKED | JEL |
|----------|------|--------|------|------------|------|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

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

LIC-THORNWOOD

| SEEDING | |
|-----------|----------|
| END MONTH | SQ. YDS. |
| | |

| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

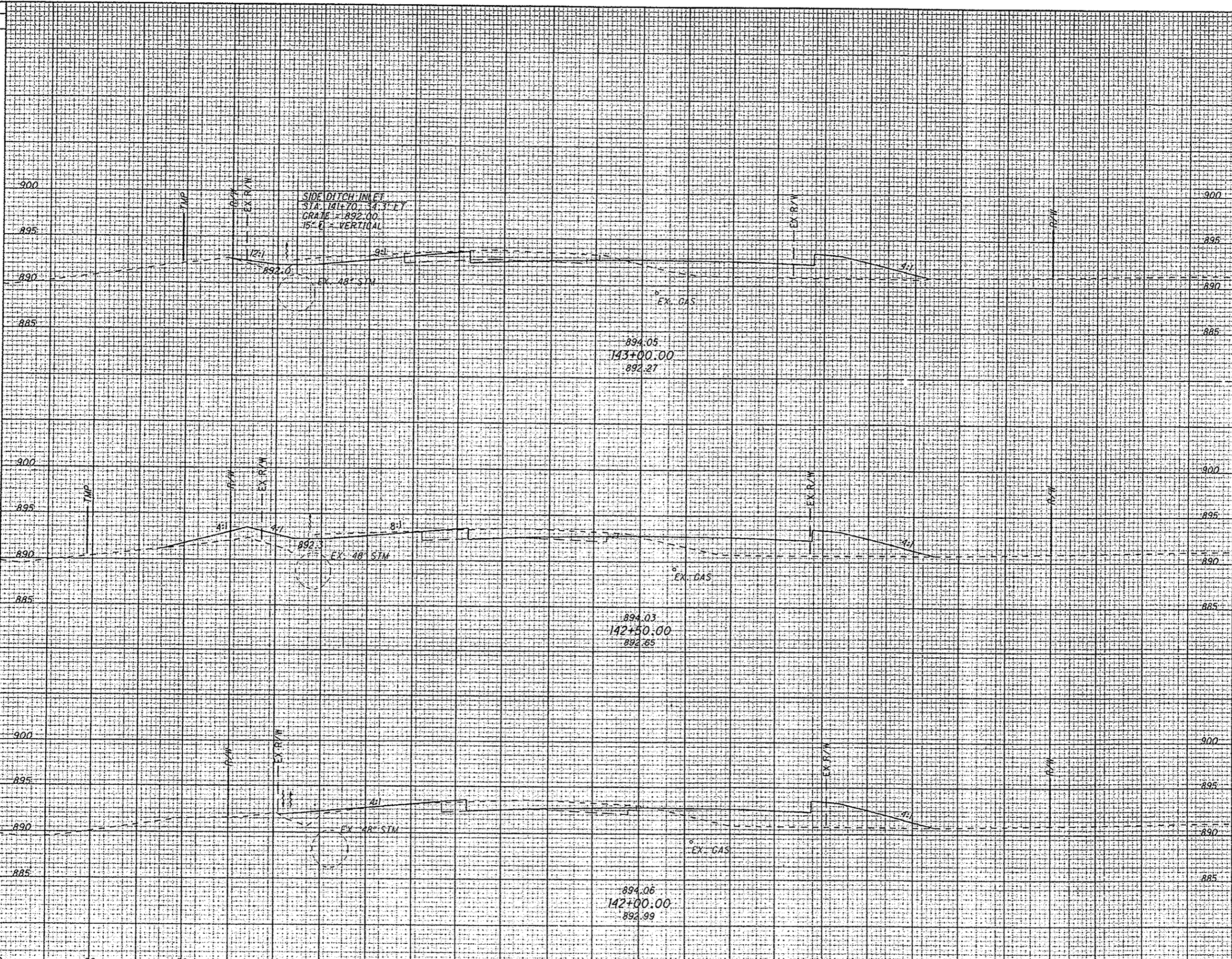


CROSS SECTIONS - THORNWOOD
 STA. 140+50.00 TO STA. 141+50.00

LIC-THORNWOOD

P:\P\dm808268\78116\S001.dgn 02-SEP-2009 9:47AM flove

SEEDING
ERO. SO.
WOTH. YOS.

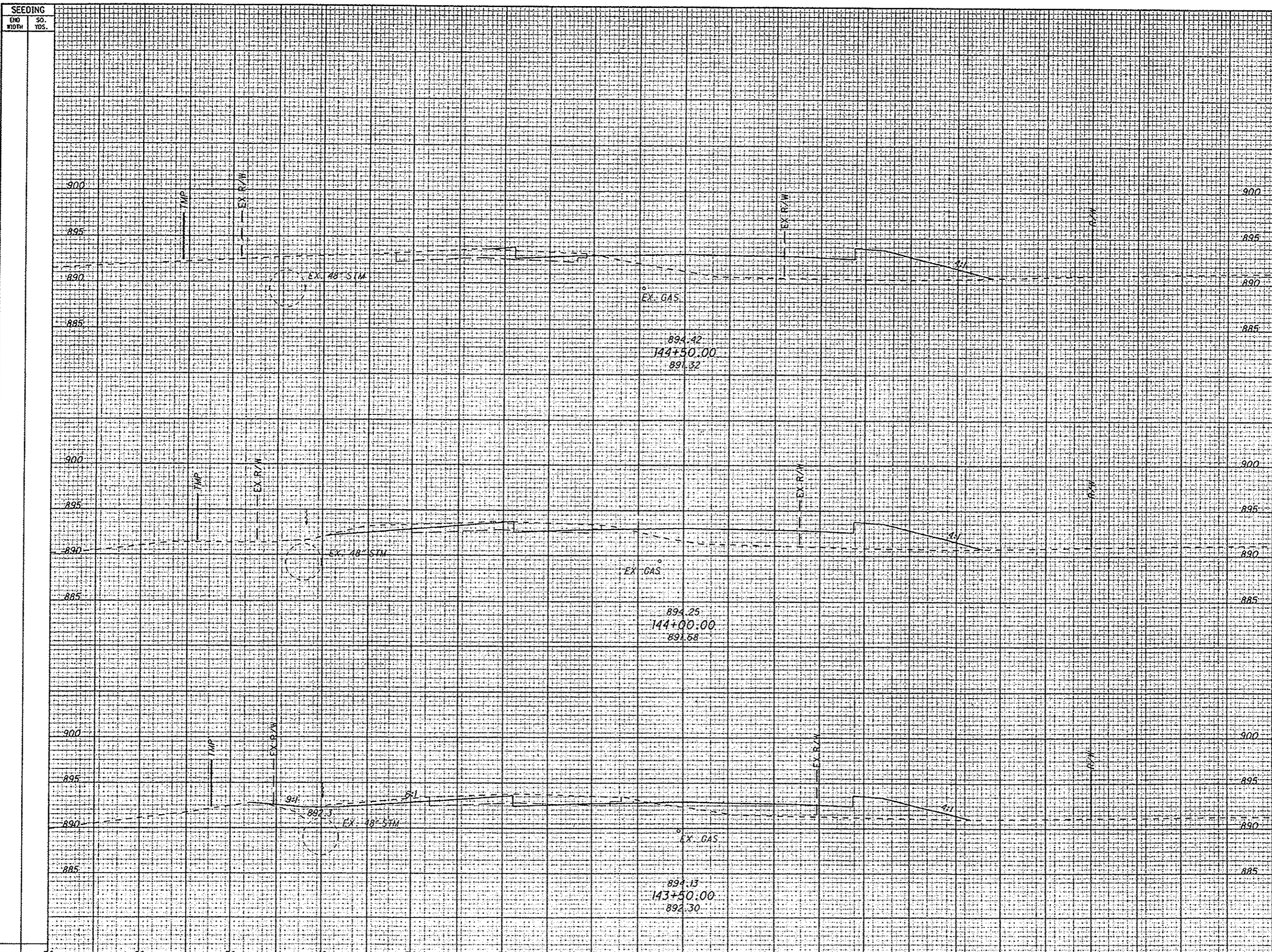


| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

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

LIC-THORNWOOD

P:\MP\4ms08266\78116XS001.dgn 02-SEP-2009 9:48AM jfove



| STATION | END AREA | | VOLUME | |
|-----------|----------|------|--------|------|
| | CUT | FILL | CUT | FILL |
| 144+50.00 | | | | |
| 144+00.00 | | | | |
| 143+50.00 | | | | |

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

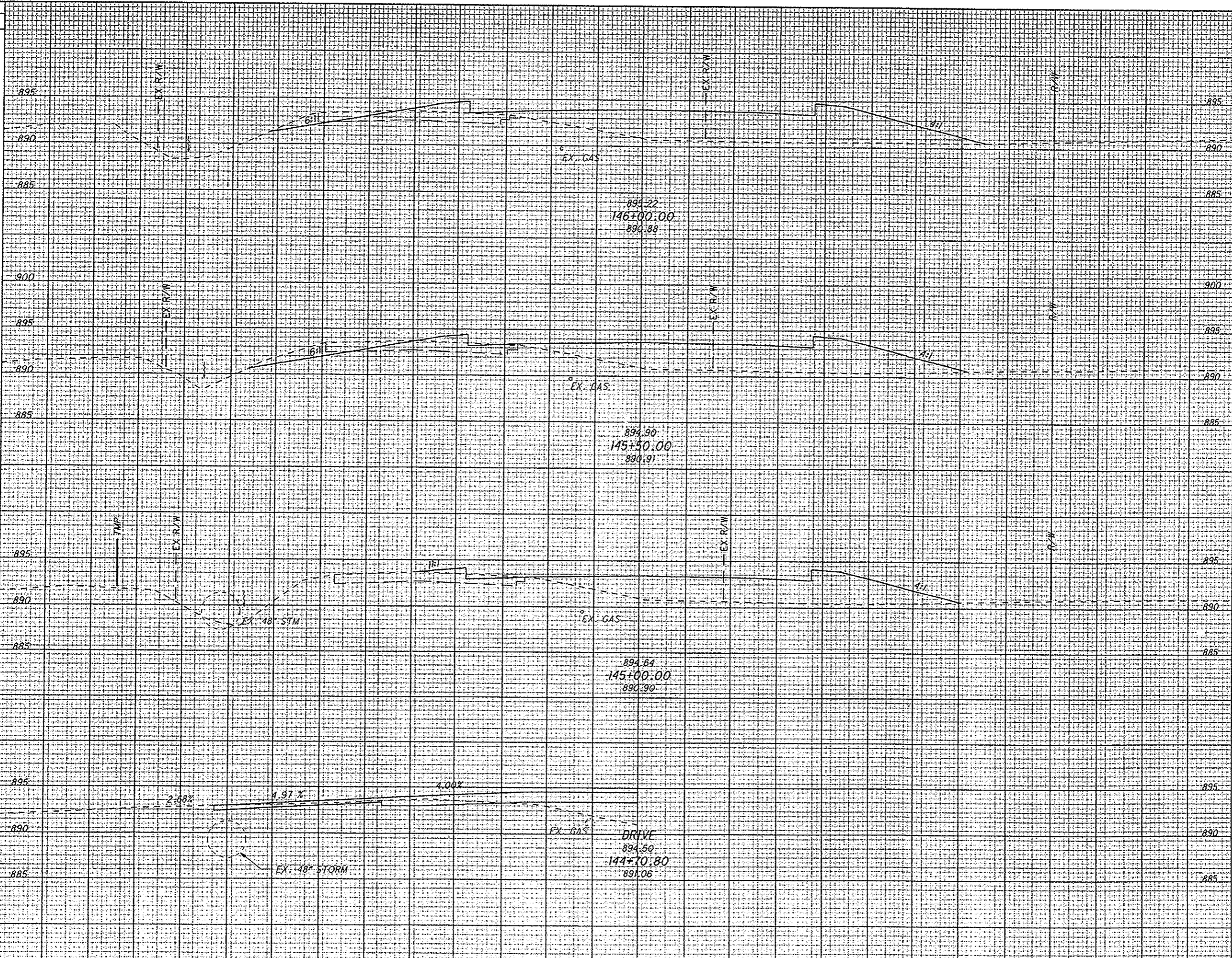
LIC-THORNWOOD

CALCULATED MMB CHECKED JEL

171
285

P:\WP_dms08268\78116\5001.dgn 02-SEP-2008 9:48AM jlove

SEEDING
END WIDTH SO. YDS.



| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| OUT | FILL | OUT | FILL | | |
| | | | | | |

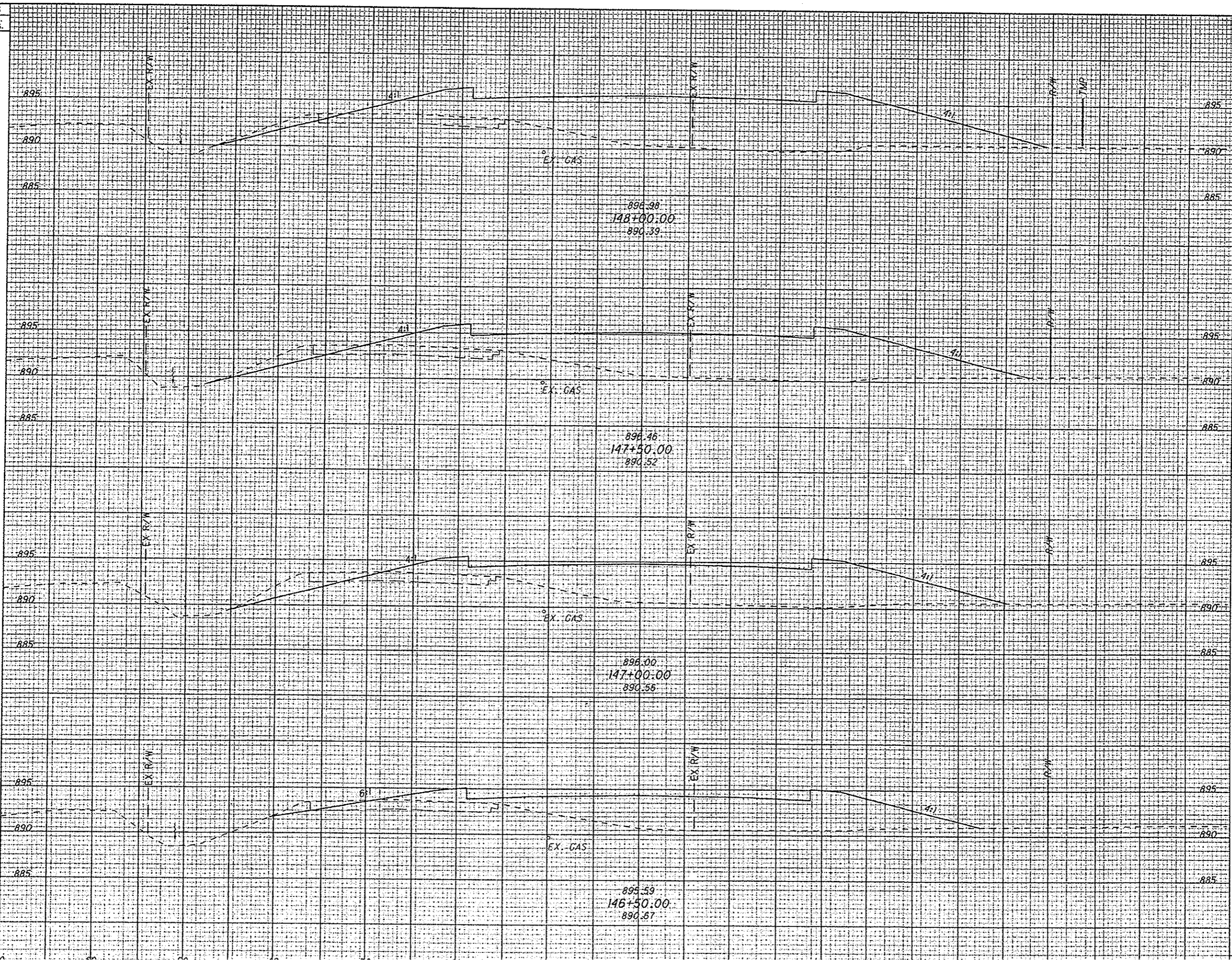
CROSS SECTIONS - THORNWOOD
STA. 144+70.80 TO STA. 146+00.00

LIC-THORNWOOD

172
985

P:\PWP_dms\08268\78116X5001.dgn 02-SEP-2009 9:48AM ftlove

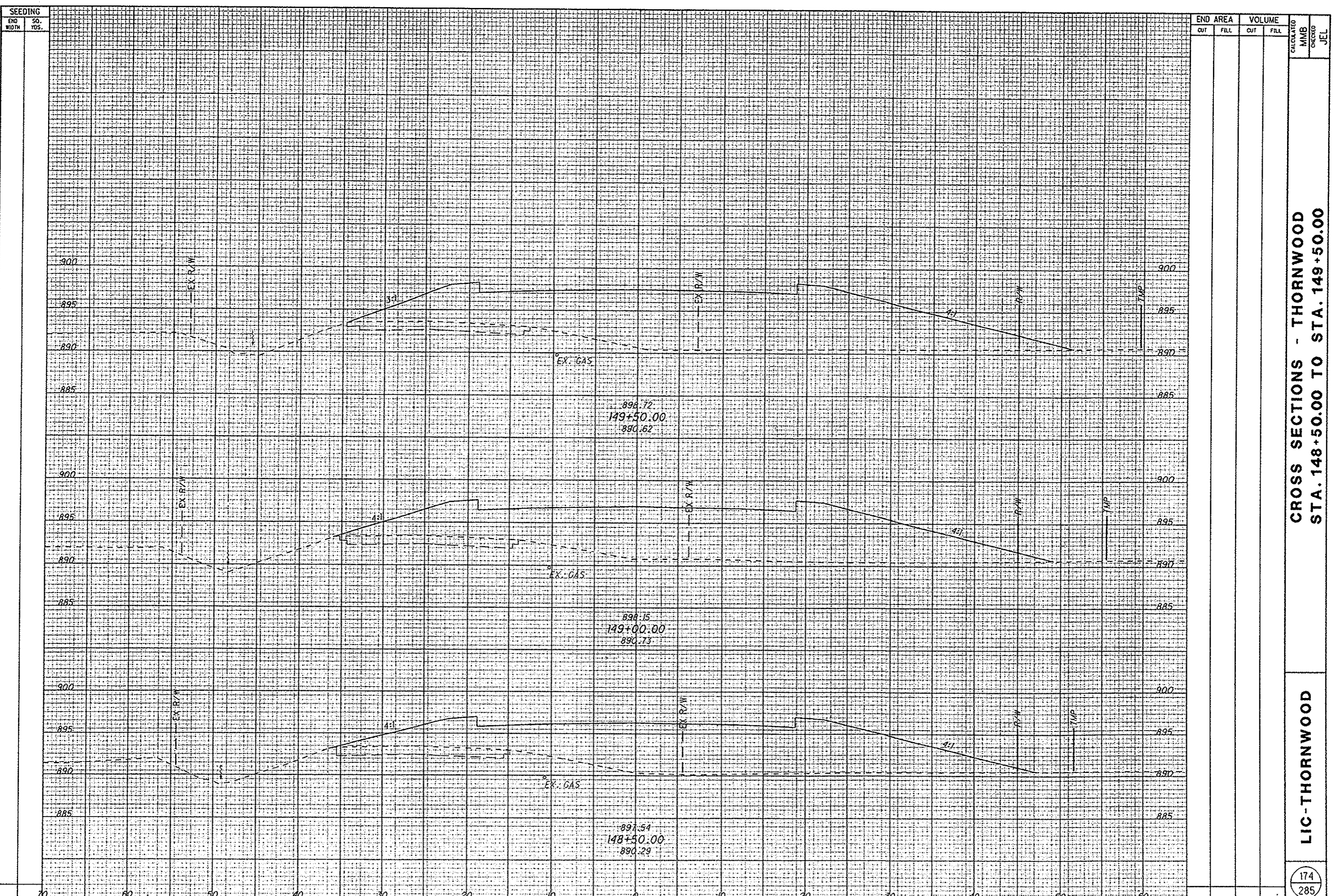
| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |



| END | AREA | | VOLUME | | CALCULATED | MMB | CREGED | JEL |
|-----|------|------|--------|------|------------|-----|--------|-----|
| | CUT | FILL | CUT | FILL | | | | |
| | | | | | | | | |

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

P:\PWP\dms08268\78116XS001.dgn 02-SEP-2009 9:48AM jlove



| SEEDING | | END AREA | | VOLUME | | CALCULATED | MINOR | CHECKED | JEL |
|-----------|----------|----------|------|--------|------|------------|-------|---------|-----|
| END WIDTH | SO. YDS. | OUT | FILL | OUT | FILL | | | | |
| | | | | | | | | | |

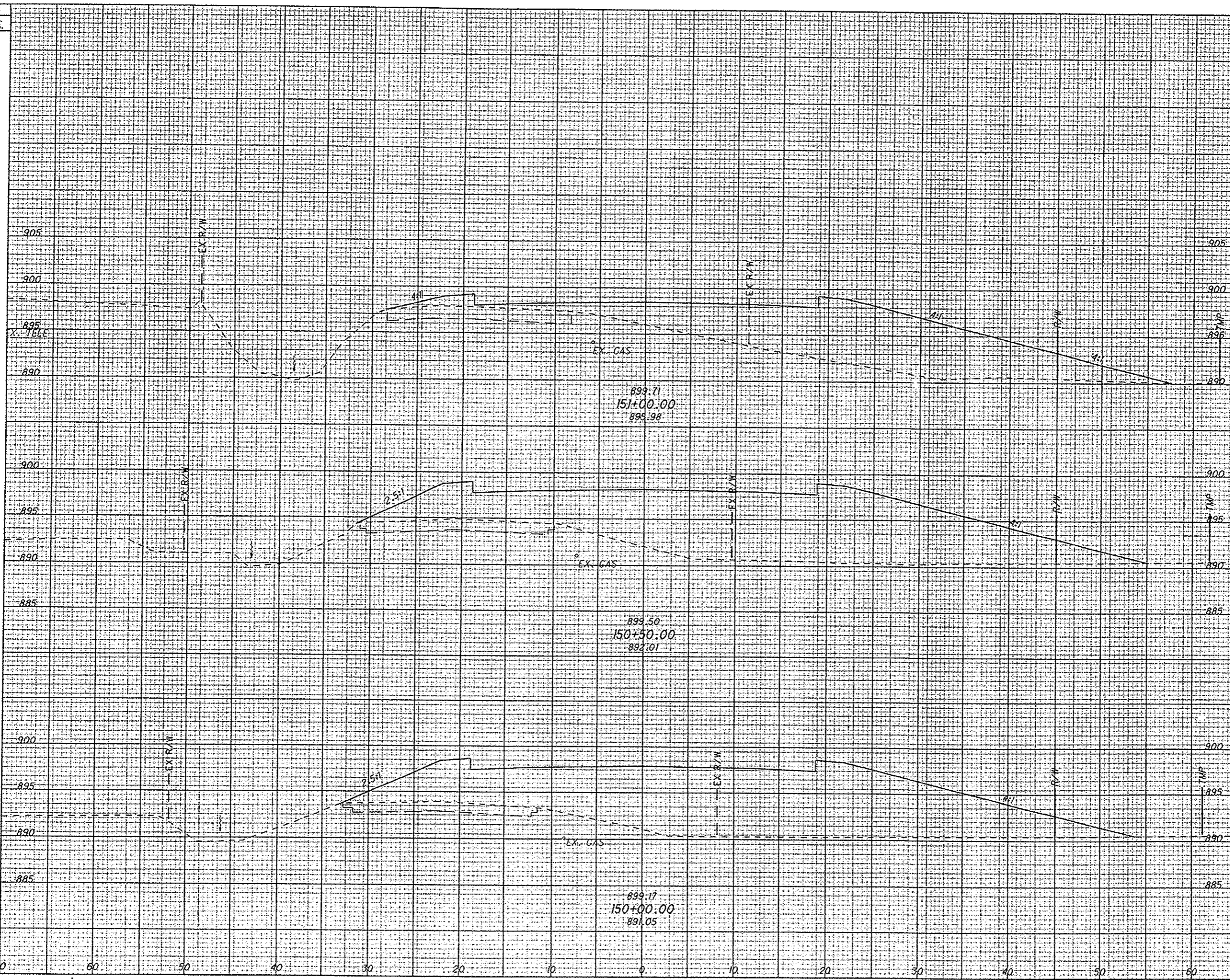
CROSS SECTIONS - THORNWOOD
STA. 148+50.00 TO STA. 149+50.00

LIC-THORNWOOD

IP_P:\WP\dms08268\78116XS001.dgn 02-SEP-2009 9:48AM jlove

SEEDING
END WIDTH SO. YDS.

| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |



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

LIC-THORNWOOD

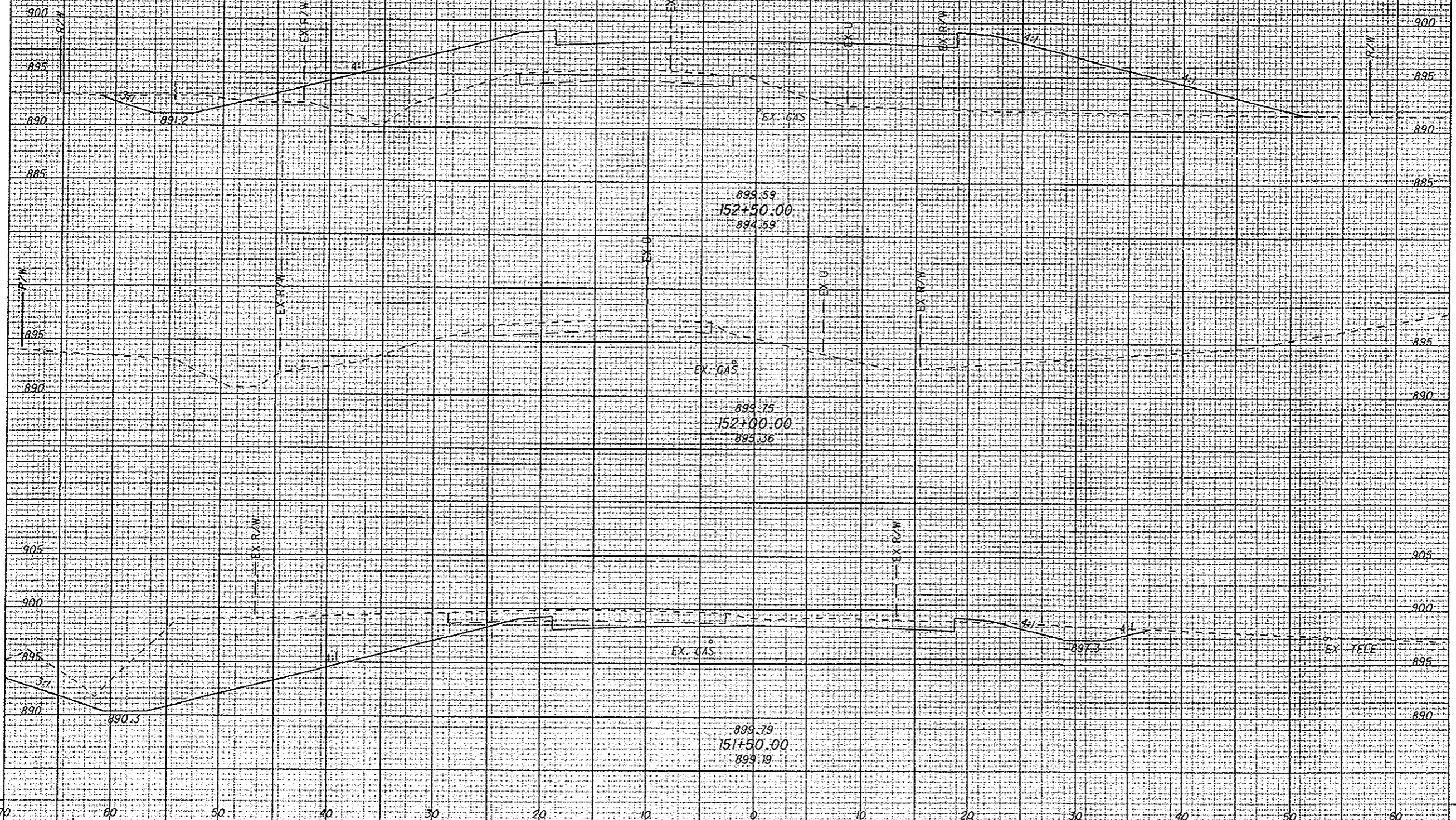
175
285

P:\PWP_dms08268\78116XS001.dgn 02-SEP-2009 9:48AM flove

SEEDING
END SQ.
WIDTH YDS.

END AREA VOLUME
OUT FILL OUT FILL

CALCULATED
MMB
CREGG
JEL



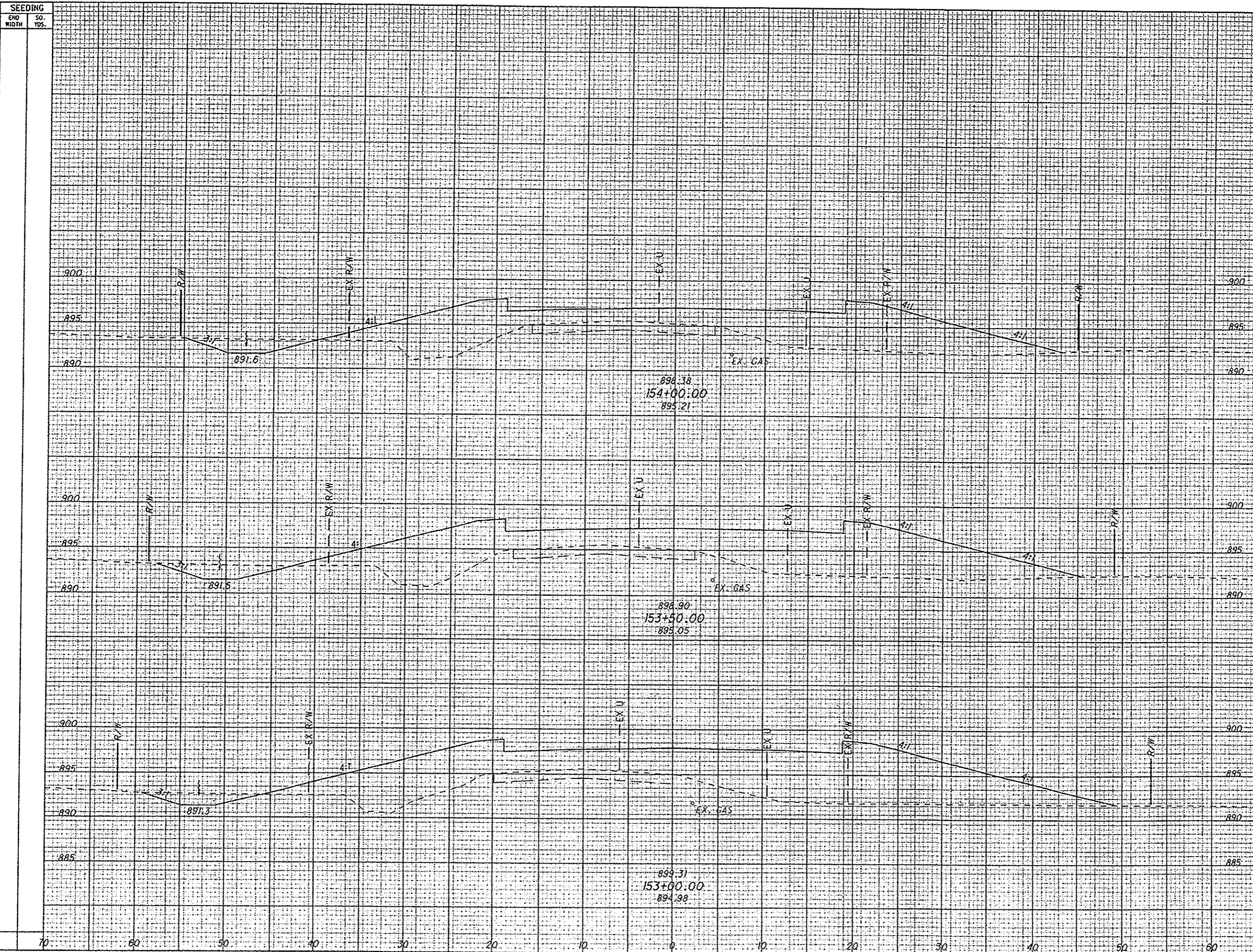
CROSS SECTIONS - THORNWOOD
STA. 151+50.00 TO STA. 152+50.00

LIC-THORNWOOD

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:49AM jrove

SEEDING
END WIDTH SO.
YDS. YDS.

END AREA VOLUME
OUT FILL OUT FILL
CALCULATED
MMB
CHECKED
JEL



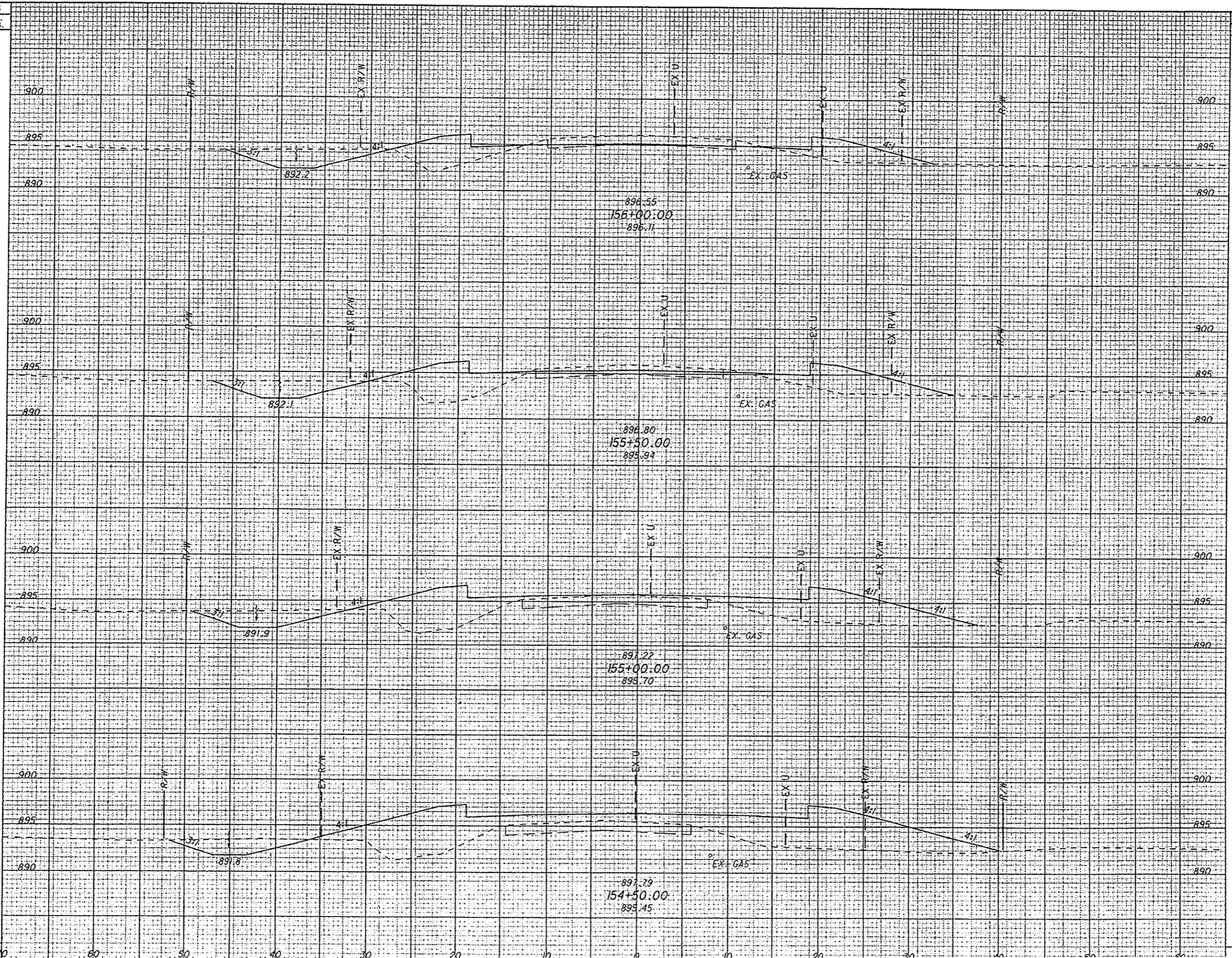
CROSS SECTIONS - THORNWOOD
STA. 153+00.00 TO STA. 154+00.00

LIC-THORNWOOD

2_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:49AM jlove

SEEDING
END WIDTH SO. YDS.

| END AREA | | VOLUME | | CALCULATED | MMB | CREED | JEL |
|----------|------|--------|------|------------|-----|-------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

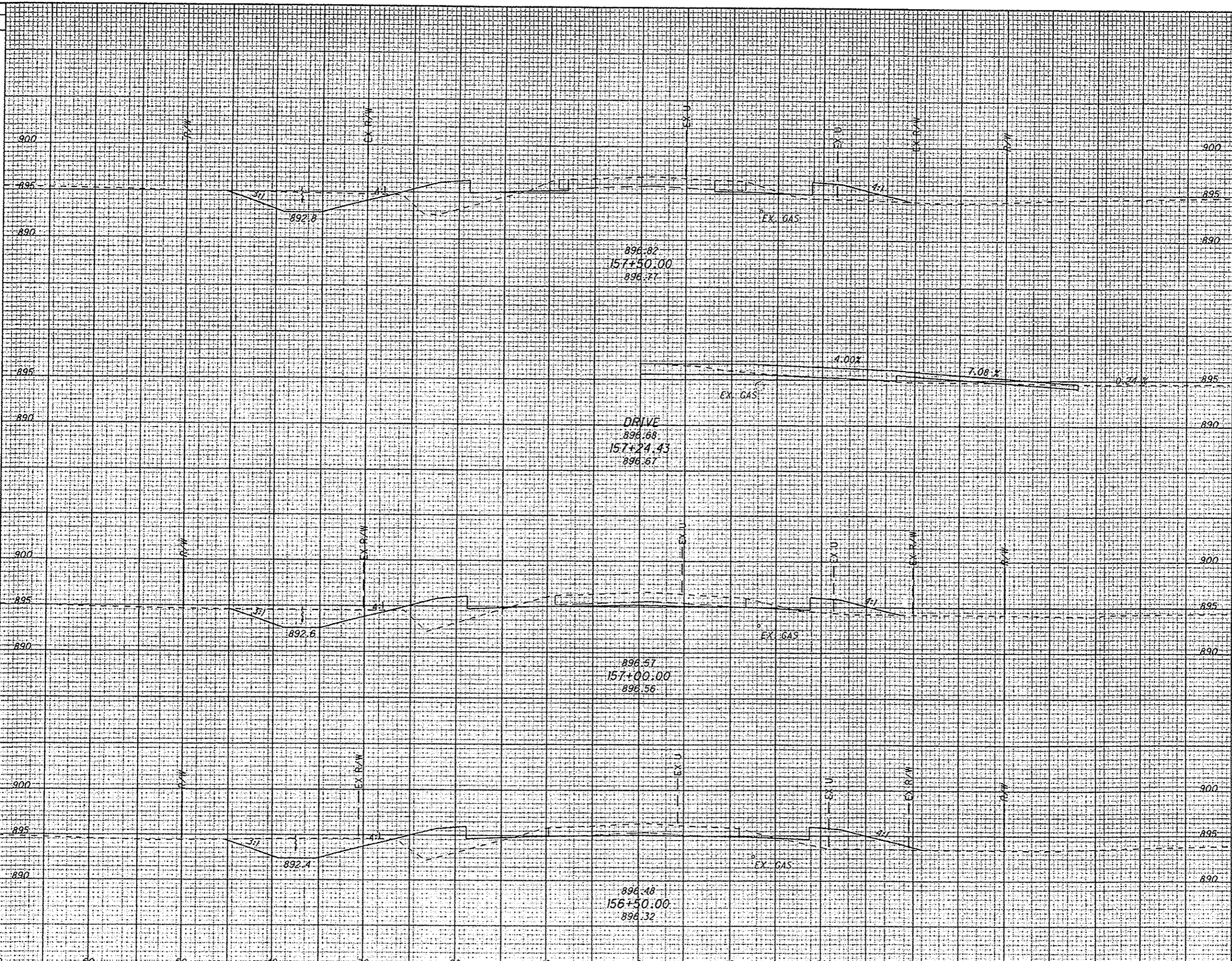


CROSS SECTIONS - THORNWOOD
STA. 154+50.00 TO STA. 156+00.00

LIC-THORNWOOD

P:\WP\dms08288\78116XS001.dgn 02-SEP-2009 9:49AM rlove

SEEDING
END SO.
WIDTH YDS.

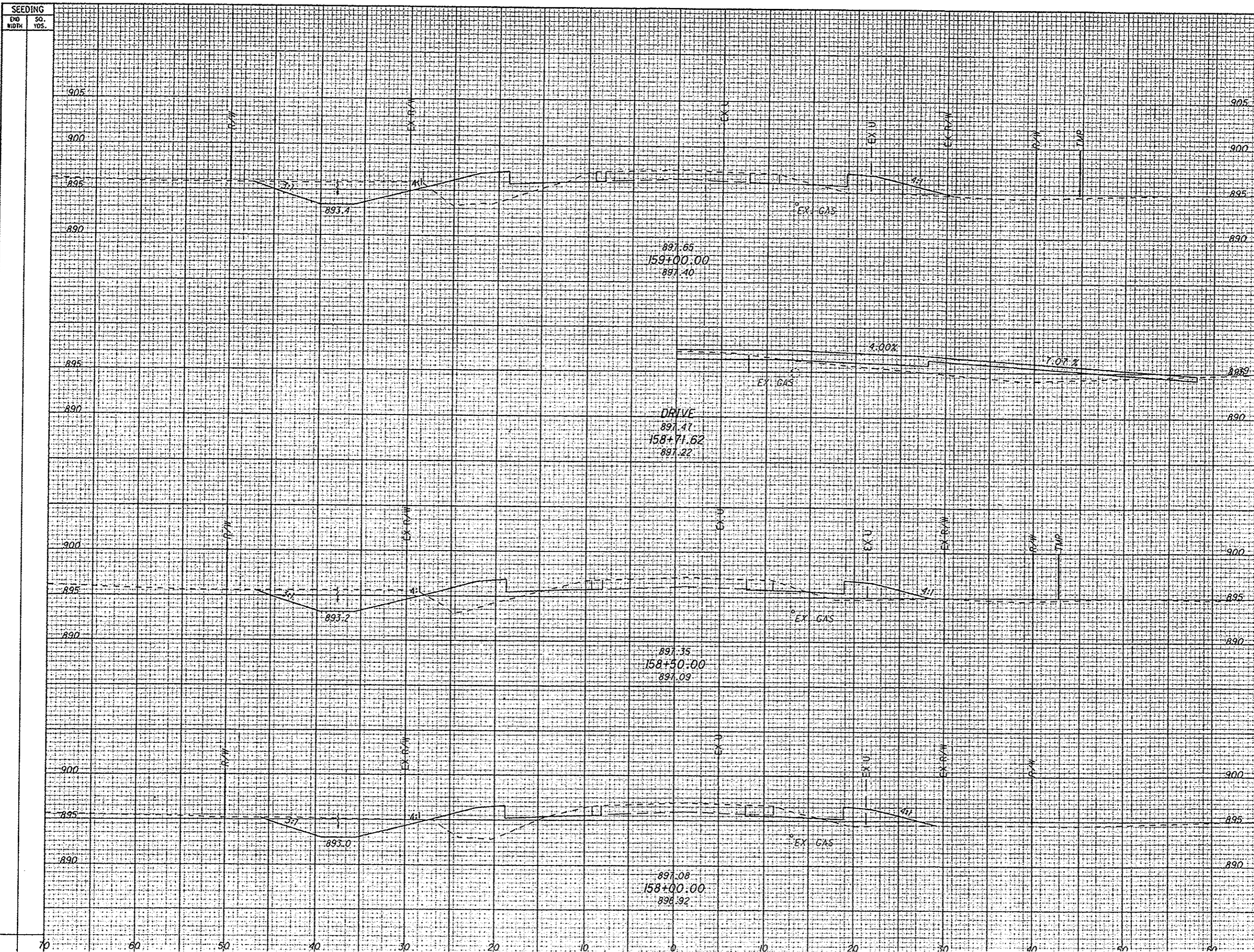


| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

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

LIC-THORNWOOD

P:\PWP_dms08268\78116XS001.dgn 02-SEP-2009 9:49AM jlove



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

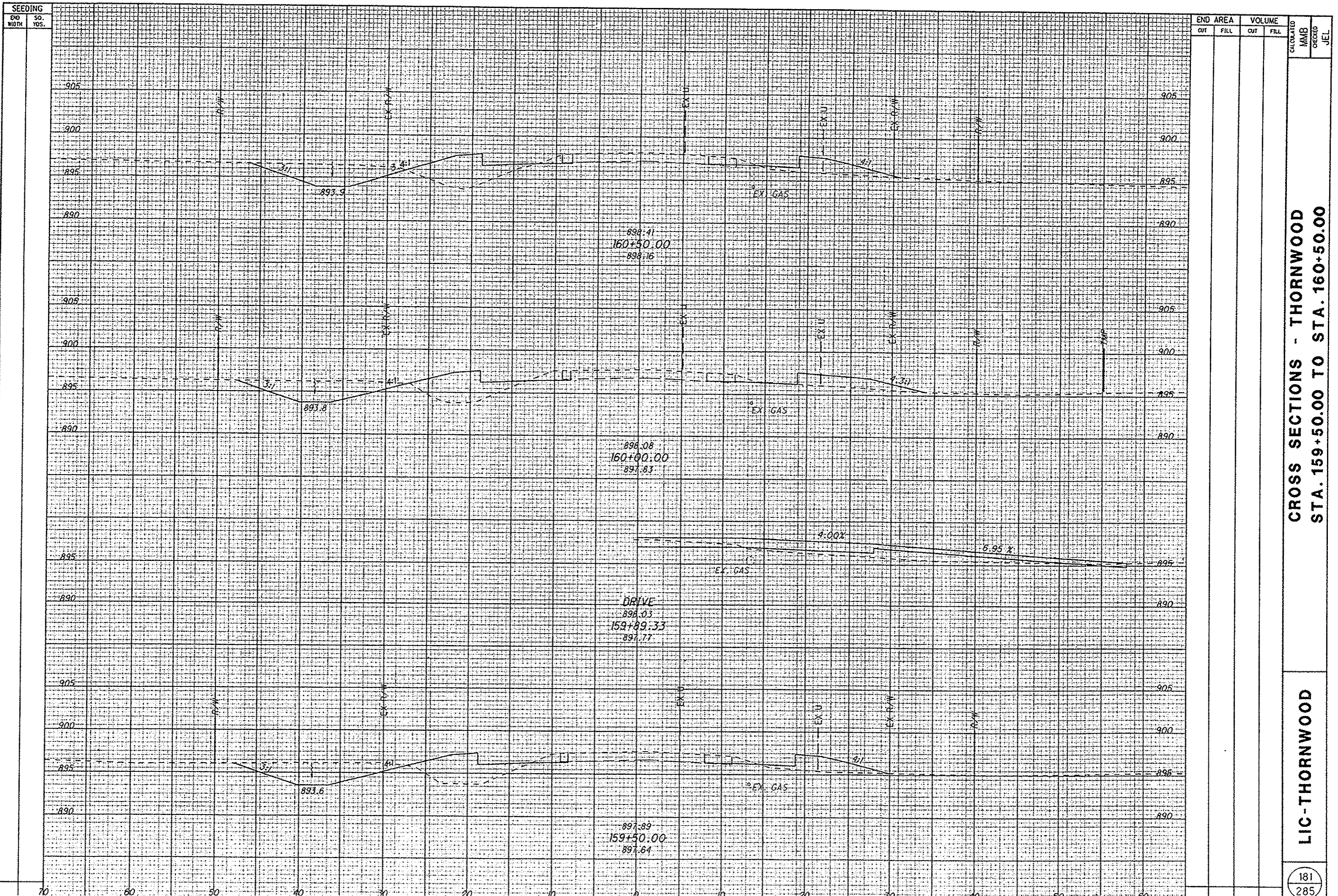
| CALCULATED | |
|------------|-----|
| MMB | UFL |
| | |

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

LIC-THORNWOOD

180
285

2_PWP.dms08268\78116\5001.dgn 02-SEP-2009 9:49AM jlove



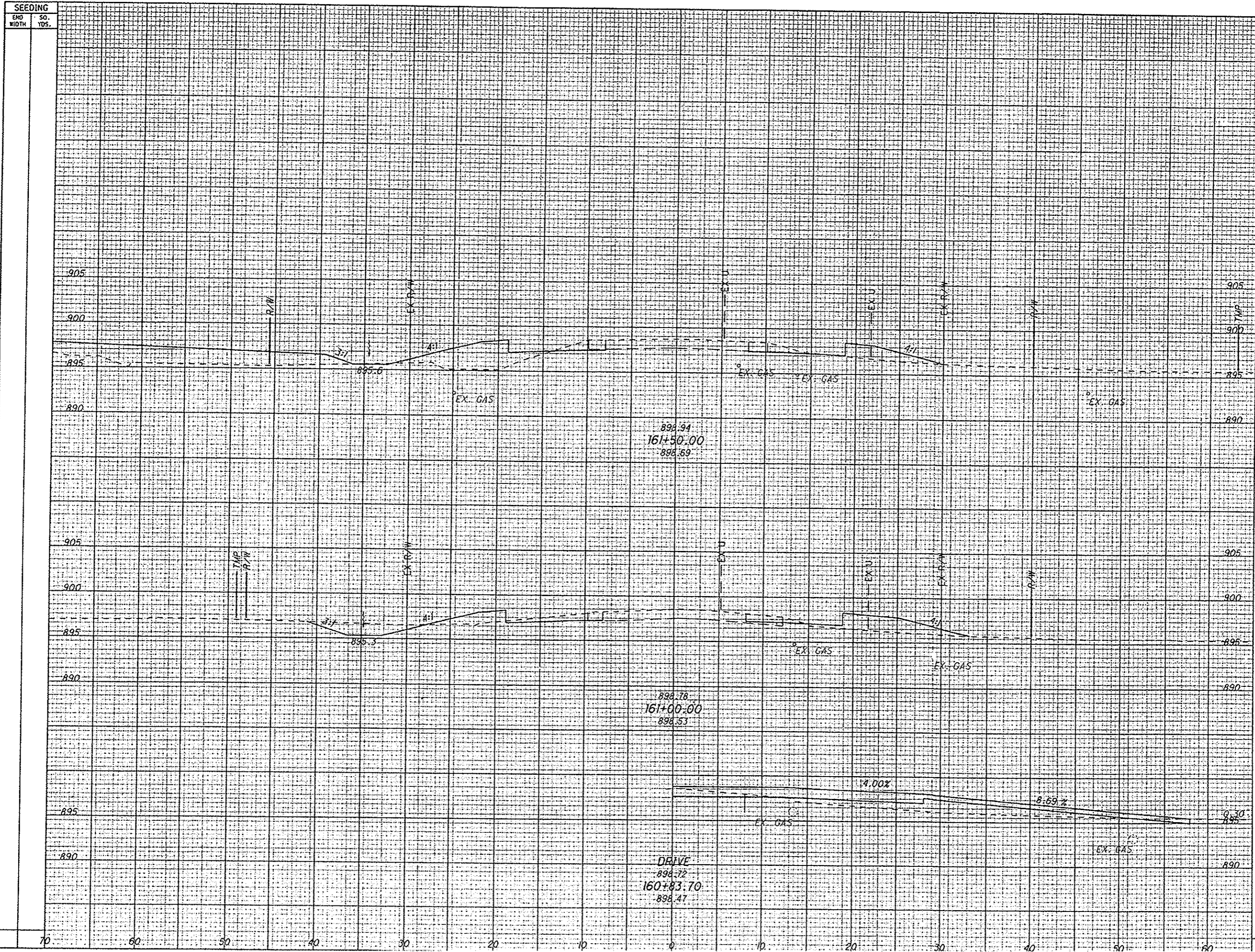
CROSS SECTIONS - THORNWOOD
 STA. 159+50.00 TO STA. 160+50.00

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:50AM jrlv

SEEDING
END WIDTH SO. YDS.

| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

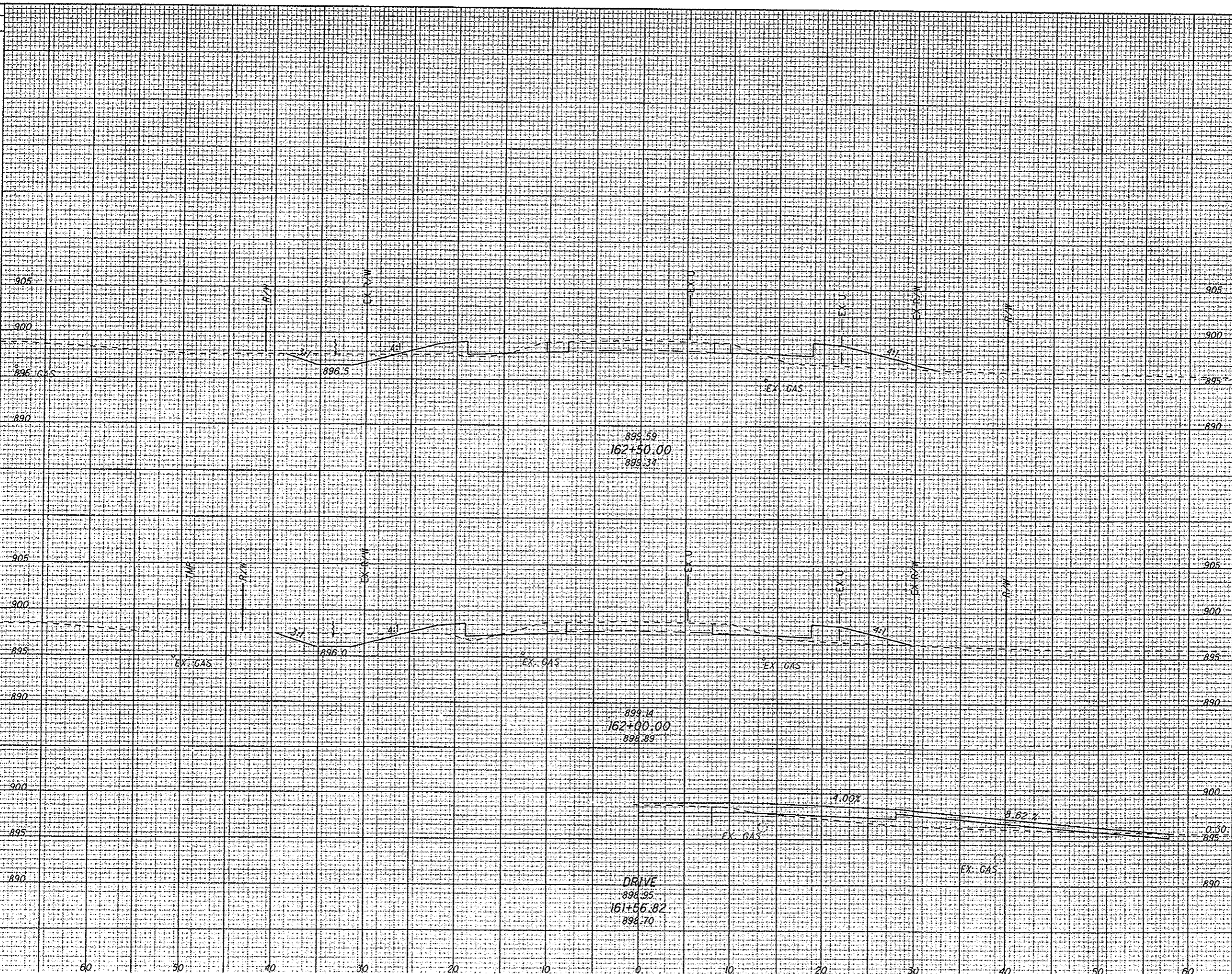


CROSS SECTIONS - THORNWOOD
STA. 160+83.70 TO STA. 161+50.00

LIC-THORNWOOD

P:\PWP\dms08268\78116XS001.dgn 02-SEP-2009 9:50AM flove

SEEDING
END SO.
WIDTH YDS.



END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

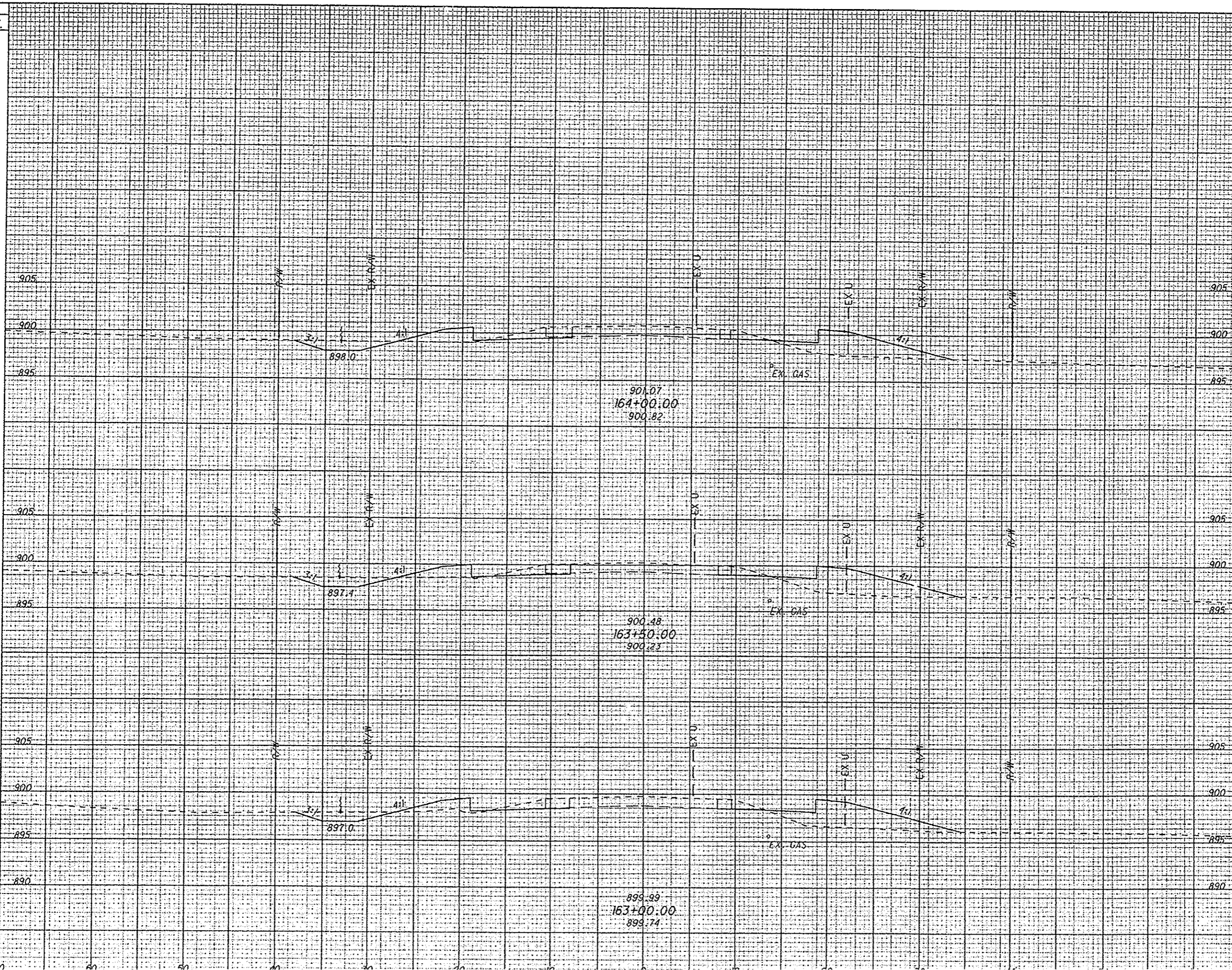
CROSS SECTIONS - THORNWOOD
STA. 161+56.82 TO STA. 162+50.00

LIC-THORNWOOD

183
285

P:\PWP.dms\08268\78116XS001.dgn 02-SEP-2009 9:50AM rlove

SEEDING
END WIDTH SO.
YDS.



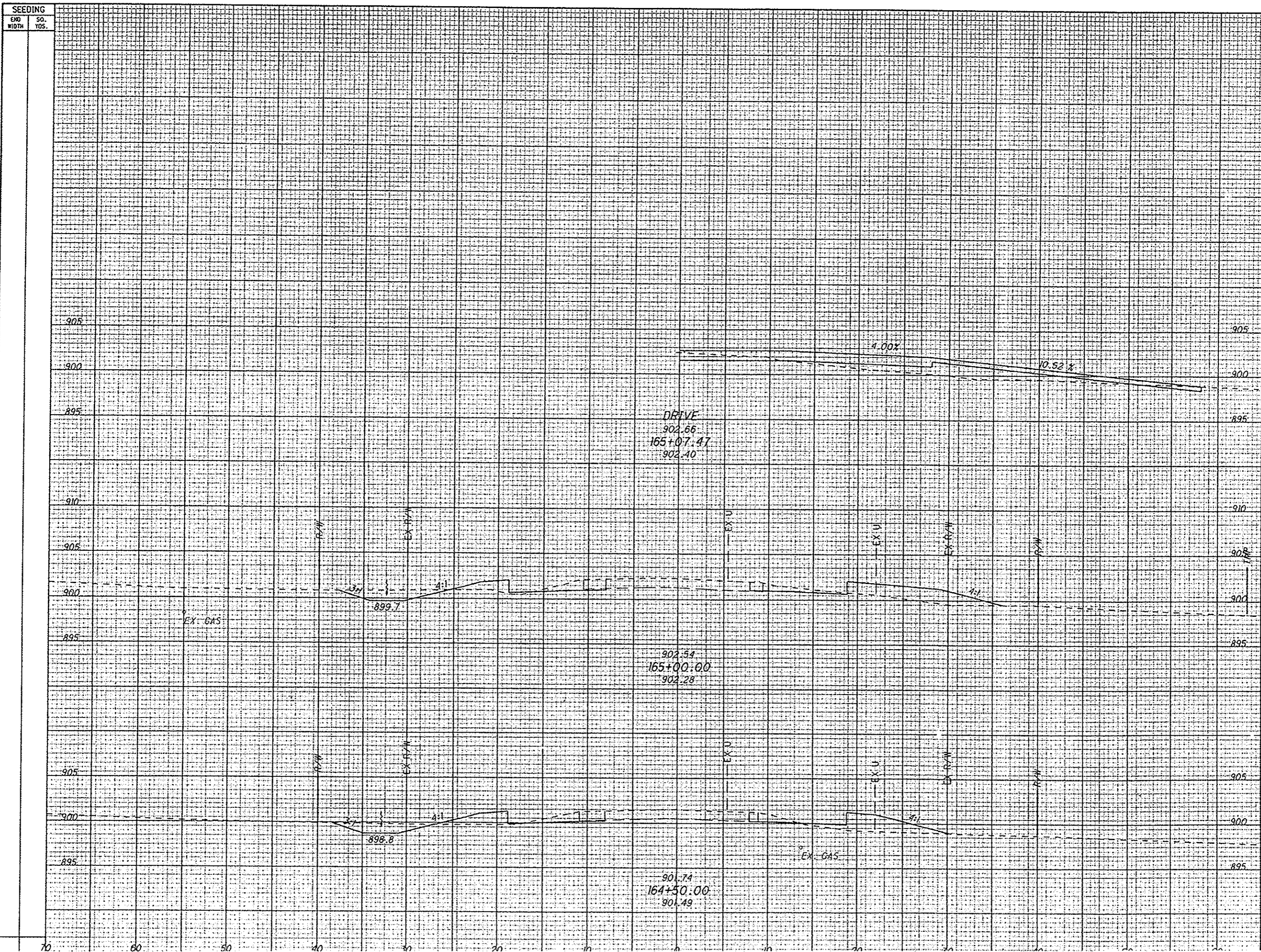
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

2_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:50AM f1rove



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

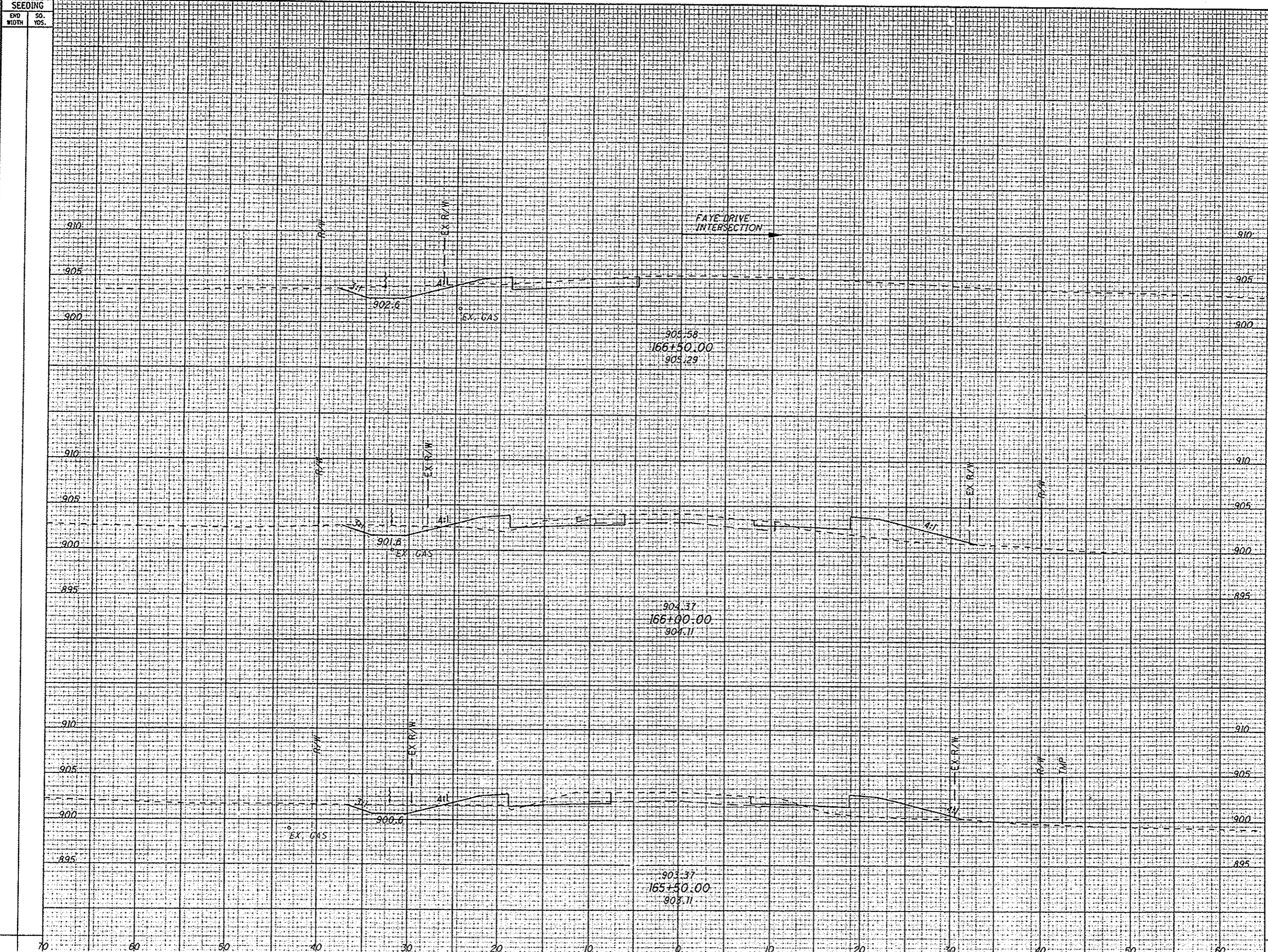
CROSS SECTIONS - THORNWOOD
STA. 164+50.00 TO STA. 165+07.47

LIC-THORNWOOD

p:\pwp_dms08268\78116\S001.dgn 02-SEP-2009 9:50AM jlove

SEEDING
END WIDTH SO. YDS.

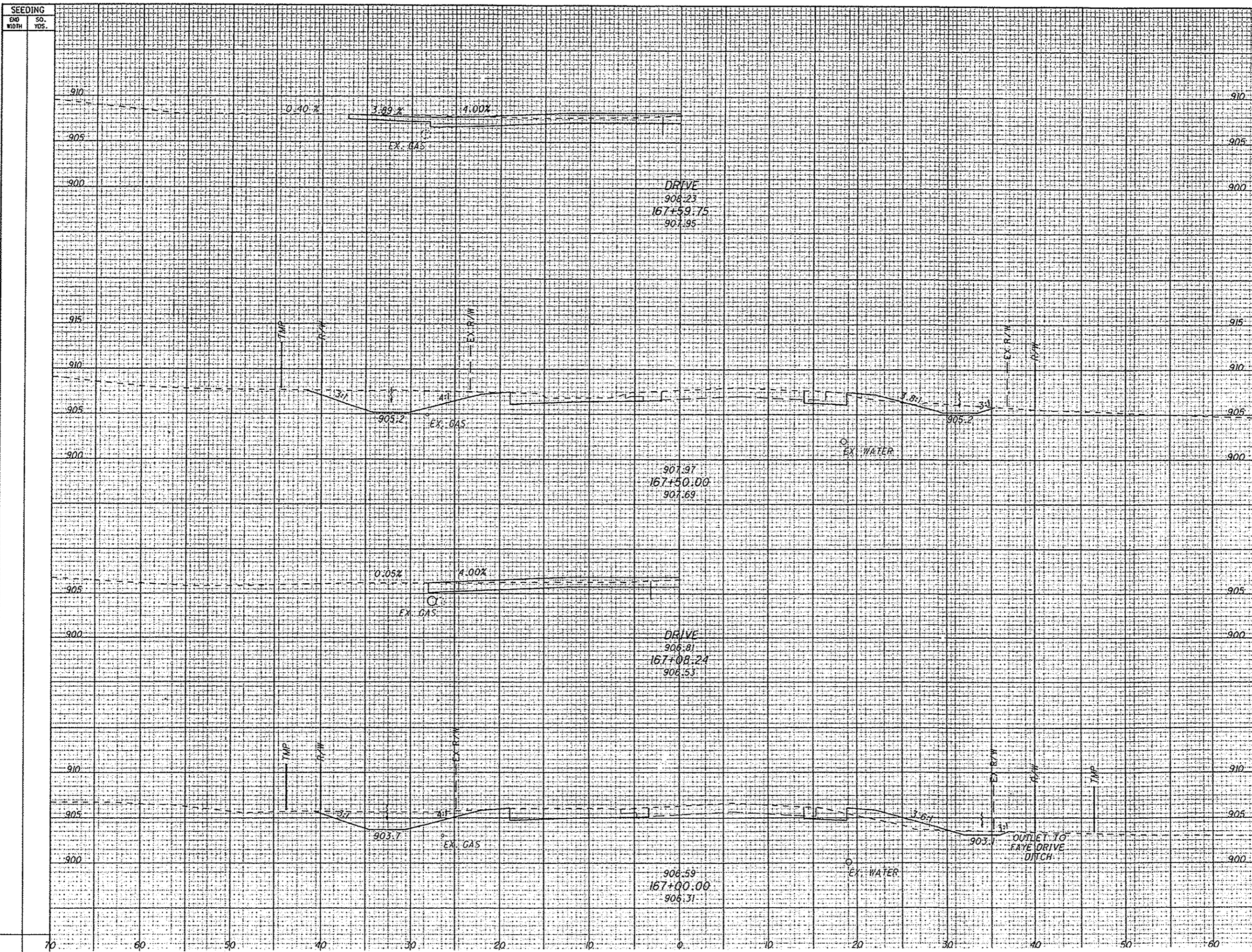
| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |



CROSS SECTIONS - THORNWOOD
STA. 165+50.00 TO STA. 166+50.00

LIC-THORNWOOD

P:\PWP.dms\08268\78116\X001.dgn 02-SEP-2009 9:50AM flove



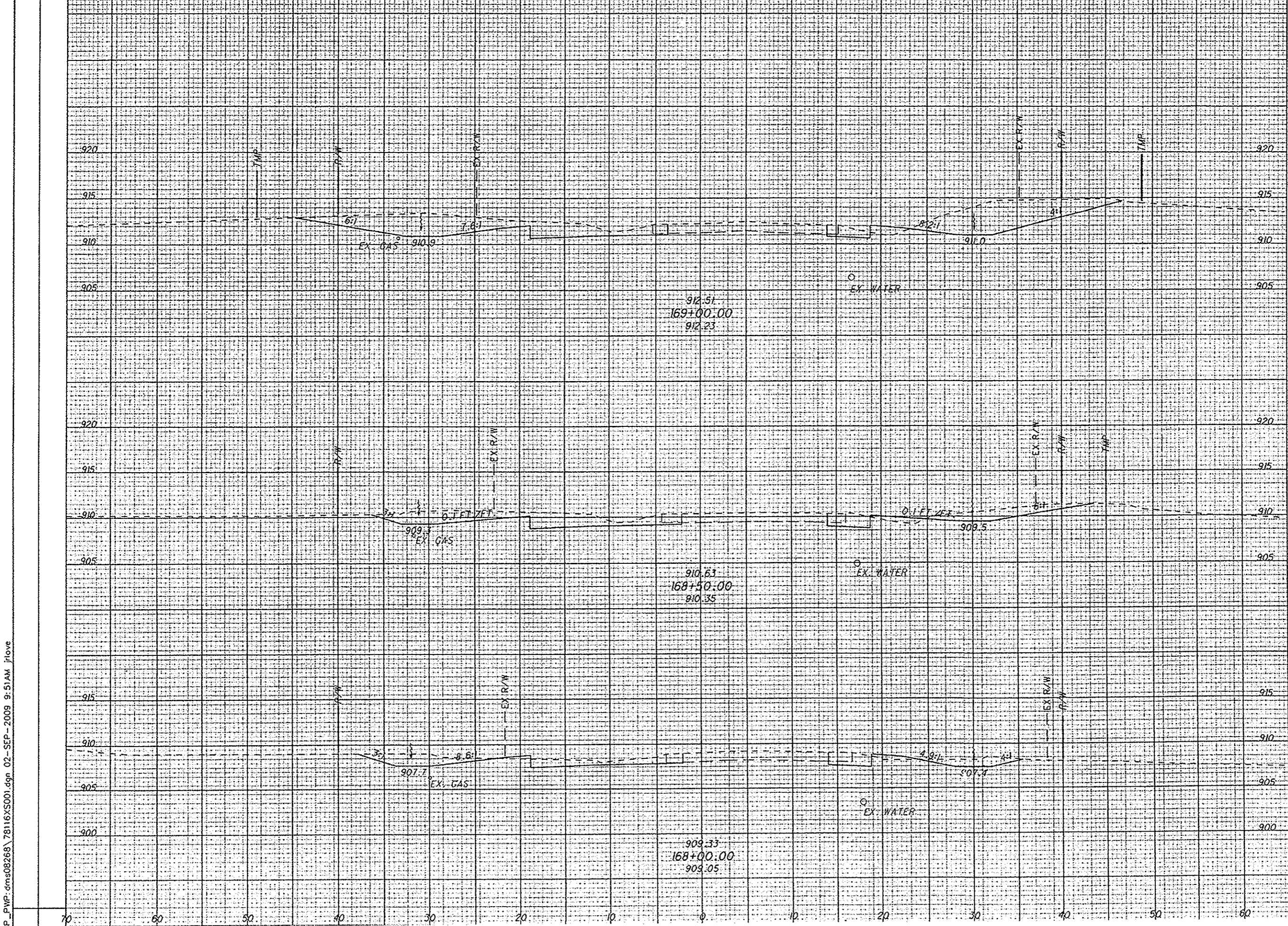
| END STA. | AREA | | VOLUME | |
|----------|------|------|--------|------|
| | CUT | FILL | CUT | FILL |
| 910 | | | | |
| 905 | | | | |
| 900 | | | | |
| 915 | | | | |
| 910 | | | | |
| 905 | | | | |
| 900 | | | | |
| 905 | | | | |
| 900 | | | | |
| 910 | | | | |
| 905 | | | | |
| 900 | | | | |

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

LIC-THORNWOOD

SEEDING
 END SO.
 WIDTH YDS.

END AREA VOLUME
 CUT FILL CUT FILL
 CALCULATED MMB MMB
 CHECKED JEL JEL



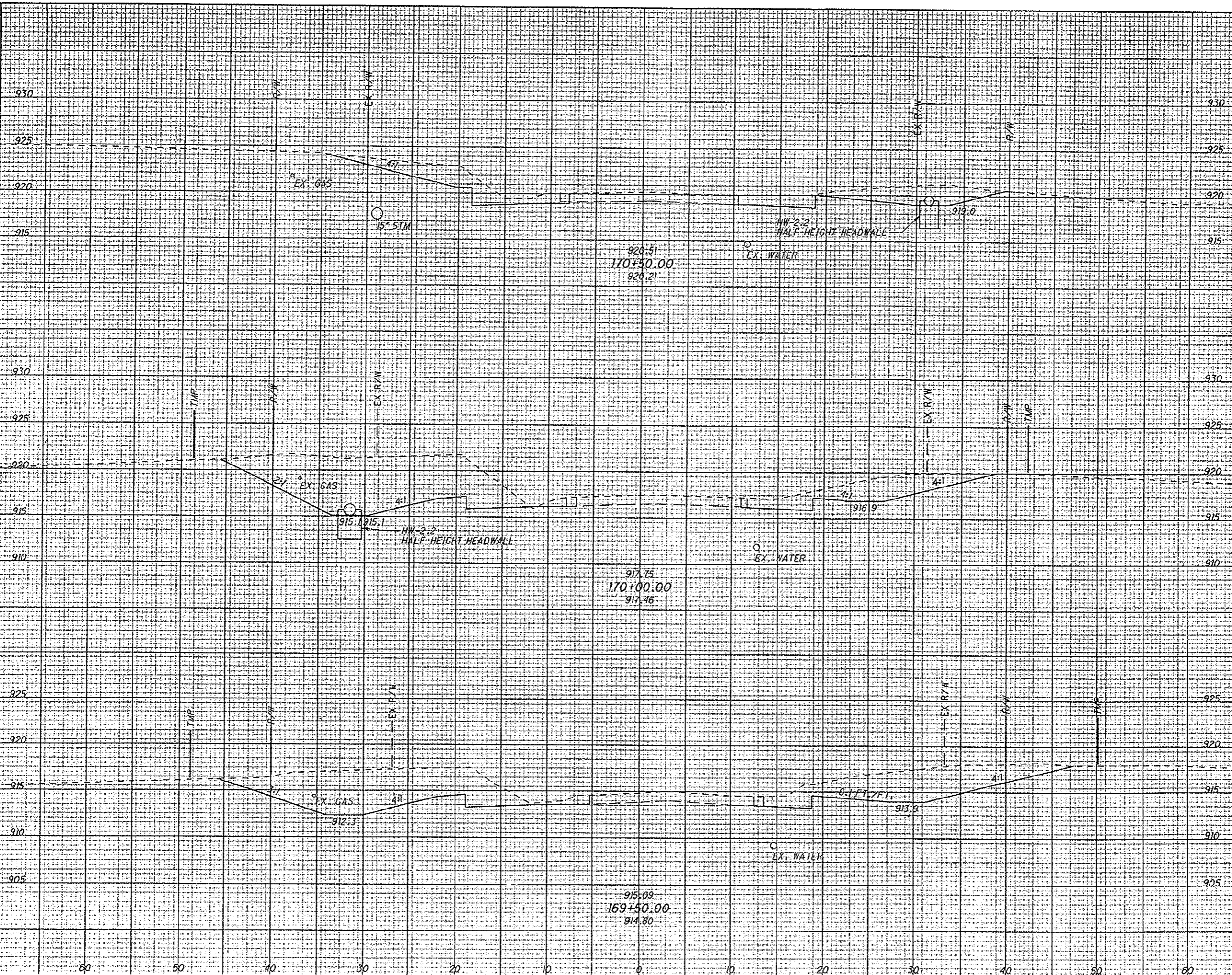
CROSS SECTIONS - THORNWOOD
 STA. 168+00.00 TO STA. 169+00.00

LIC-THORNWOOD

P:\PWP-dms08268\78116x5001.dgn 02-SEP-2009 9:51AM jrove

P:\PWP.dms\08268\78116XS001.dgn 02-SEP-2009 9:51AM flove

SEEDING
END SO.
WIDTH NOS.



END AREA VOLUME
CUT FILL CUT FILL

| STATION | END AREA | | VOLUME | |
|-----------|----------|------|--------|------|
| | CUT | FILL | CUT | FILL |
| 170+50.00 | | | | |
| 170+00.00 | | | | |
| 169+50.00 | | | | |

CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

P:\WP_dms08268\78116\5001.dgn 02-SEP-2009 9:51AM jrlave

SEEDING

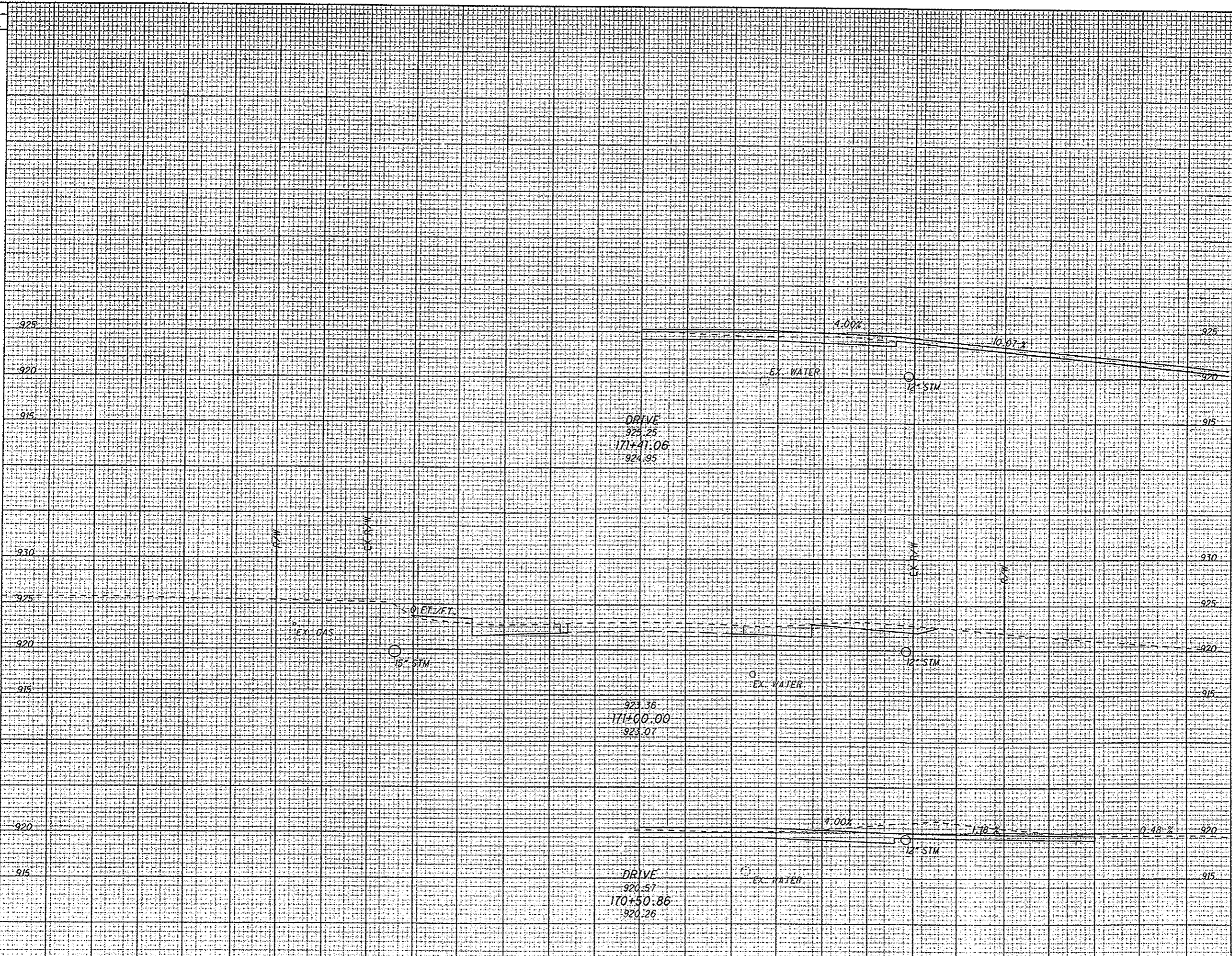
END SO. WIDTH YDS.

END AREA

VOLUME

CUT FILL CUT FILL

CALCULATED MMB CHECKED JEL



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

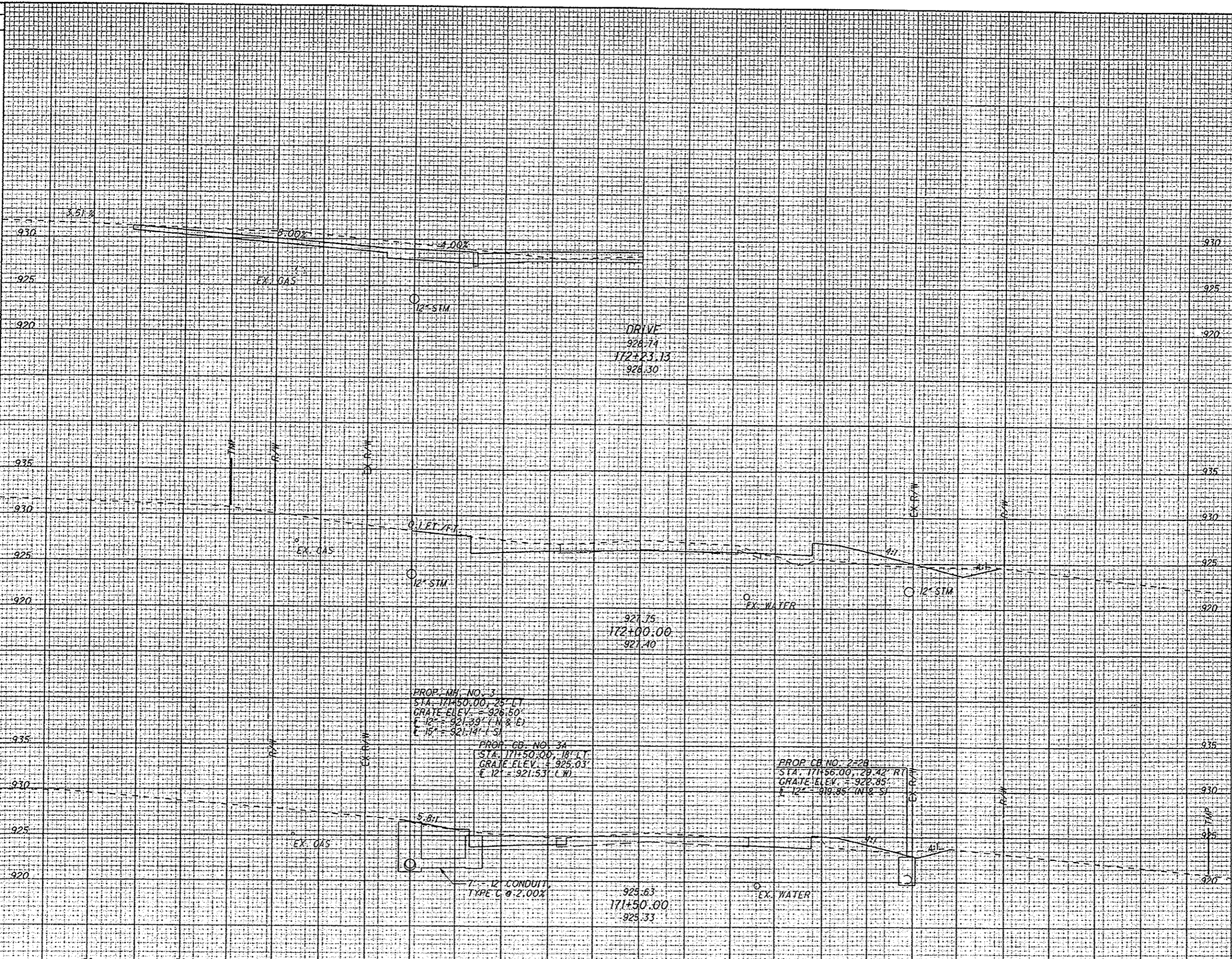
LIC-THORNWOOD

P:\WP_dms\08268\78116\5001.dgn 02-SEP-2009 9:51AM jlove

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CREATED
JEL

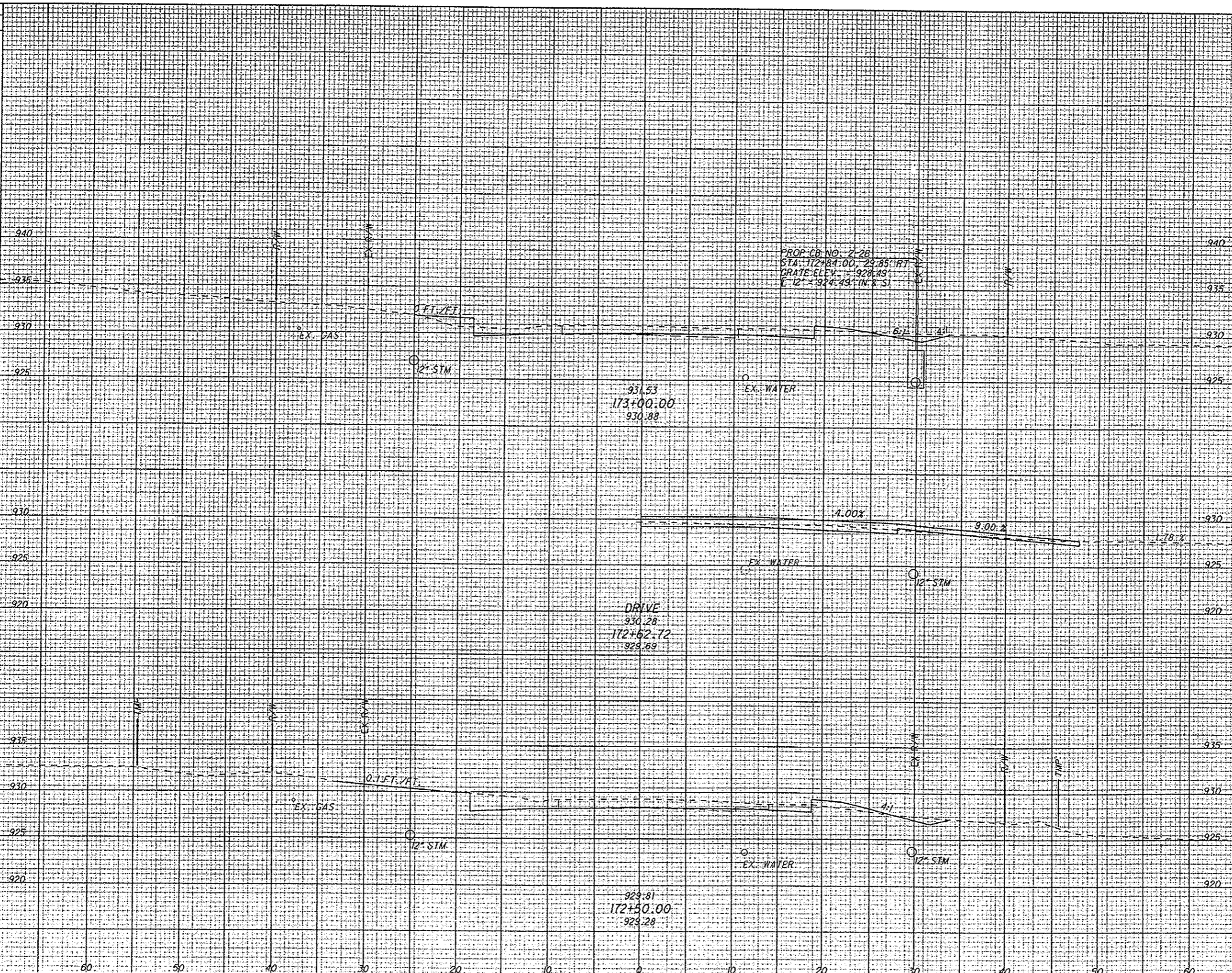


CROSS SECTIONS - THORNWOOD
STA. 171+50.00 TO STA. 172+23.13

LIC-THORNWOOD

P:\PWP_dms08268\78116X5001.dgn 02-SEP-2009 9:51AM jrlcve

SEEDING
END SO.
WIDTH YOS.



| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

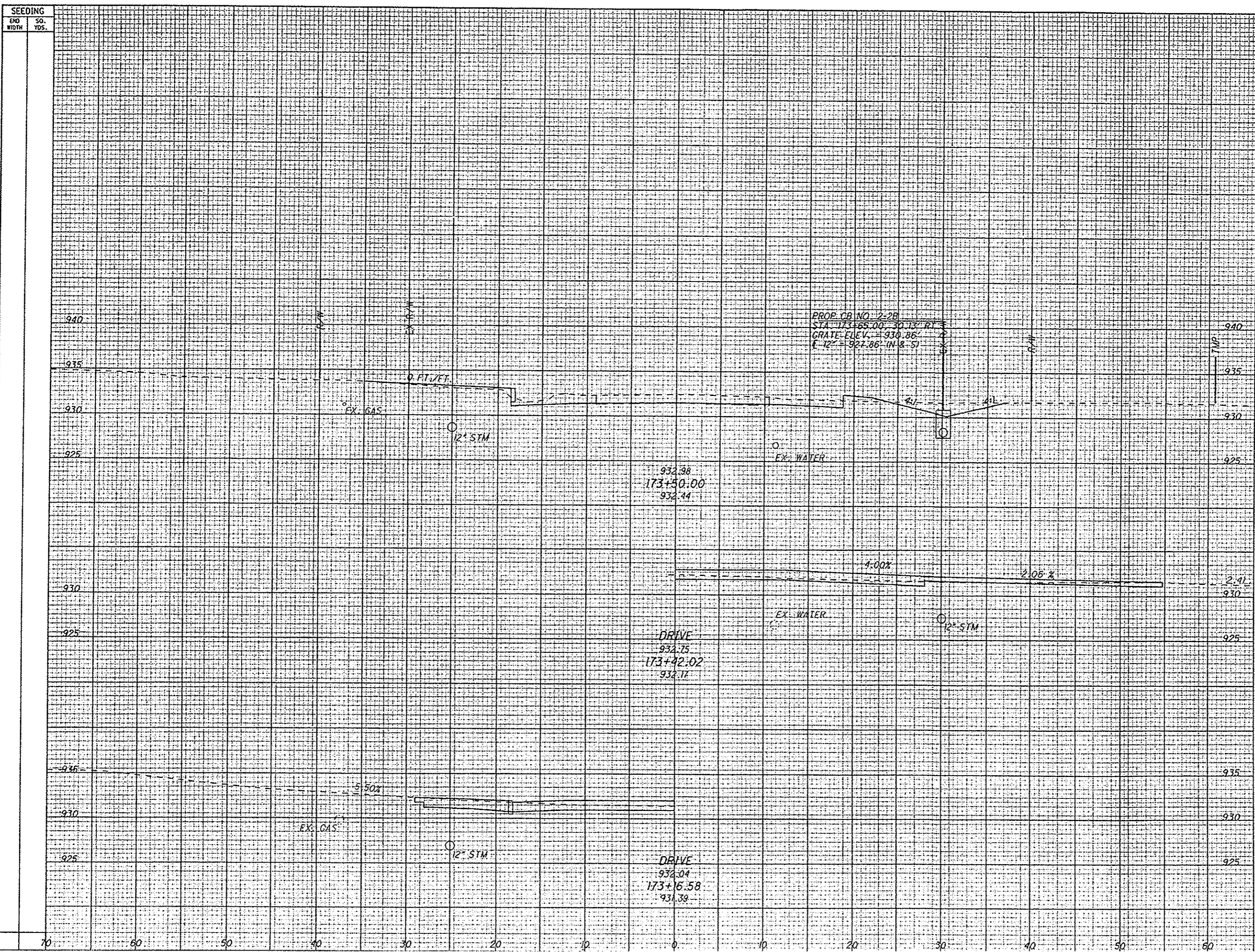
CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

192
285

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:51AM jlove



| END AREA | | VOLUME | |
|----------|------|--------|------|
| OUT | FILL | OUT | FILL |
| | | | |

CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

193
285

P:\PWP.dms\08268\78116X5001.dgn 02-SEP-2009 9:52AM flove

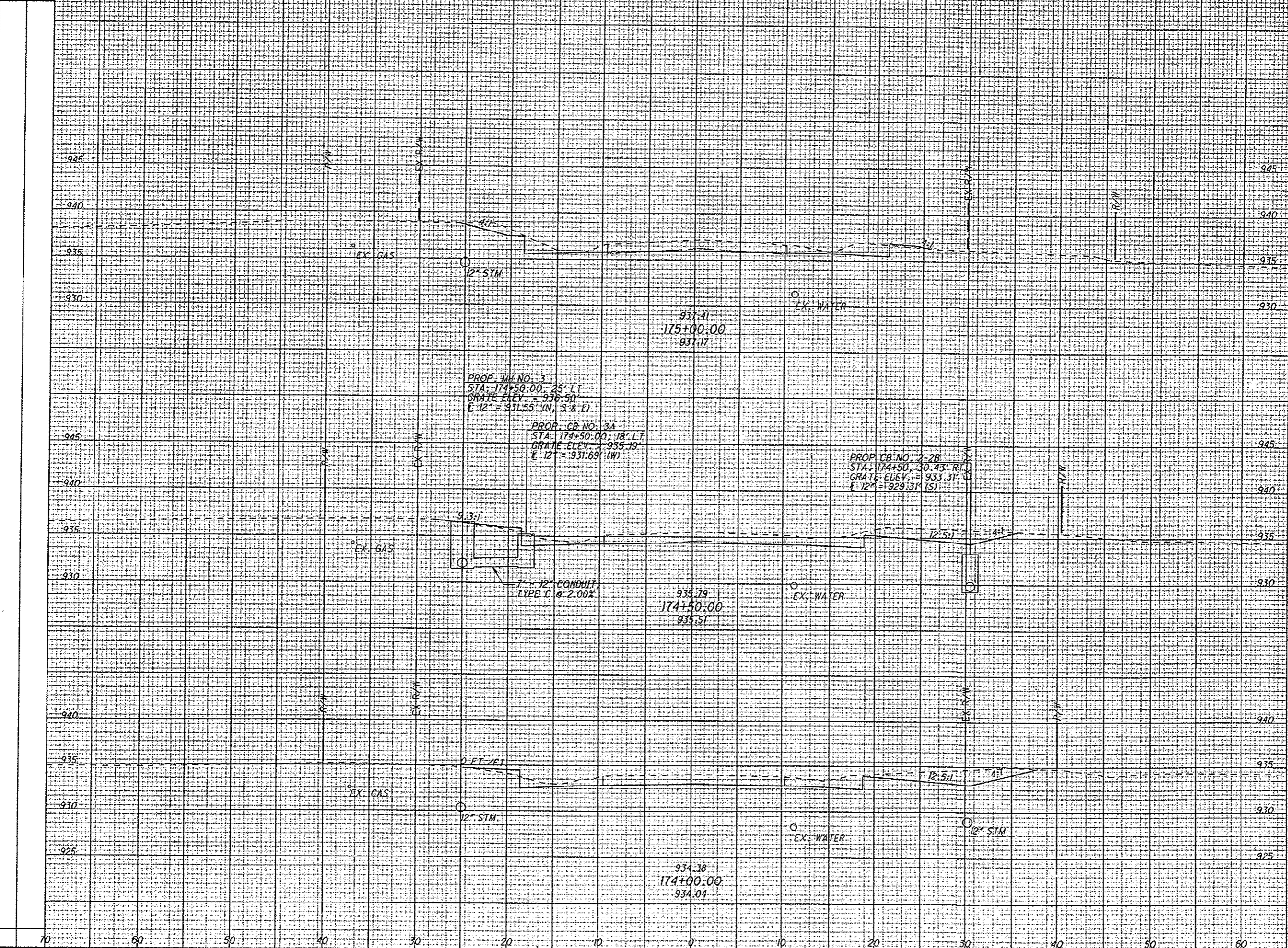
SEEDING

ERO WIDTH SO. YDS.

END AREA VOLUME

CUT FILL CUT FILL

CALCULATED MMB CHECKED JEL



PROP. M. NO. 3
 STA. 174+50.00, 25' LT.
 GRATE ELEV. = 936.50
 F. 12" = 931.55' (N, S & E)

PROP. CB NO. 3A
 STA. 174+50.00, 18' LT.
 GRATE ELEV. = 935.19
 F. 12" = 931.69' (W)

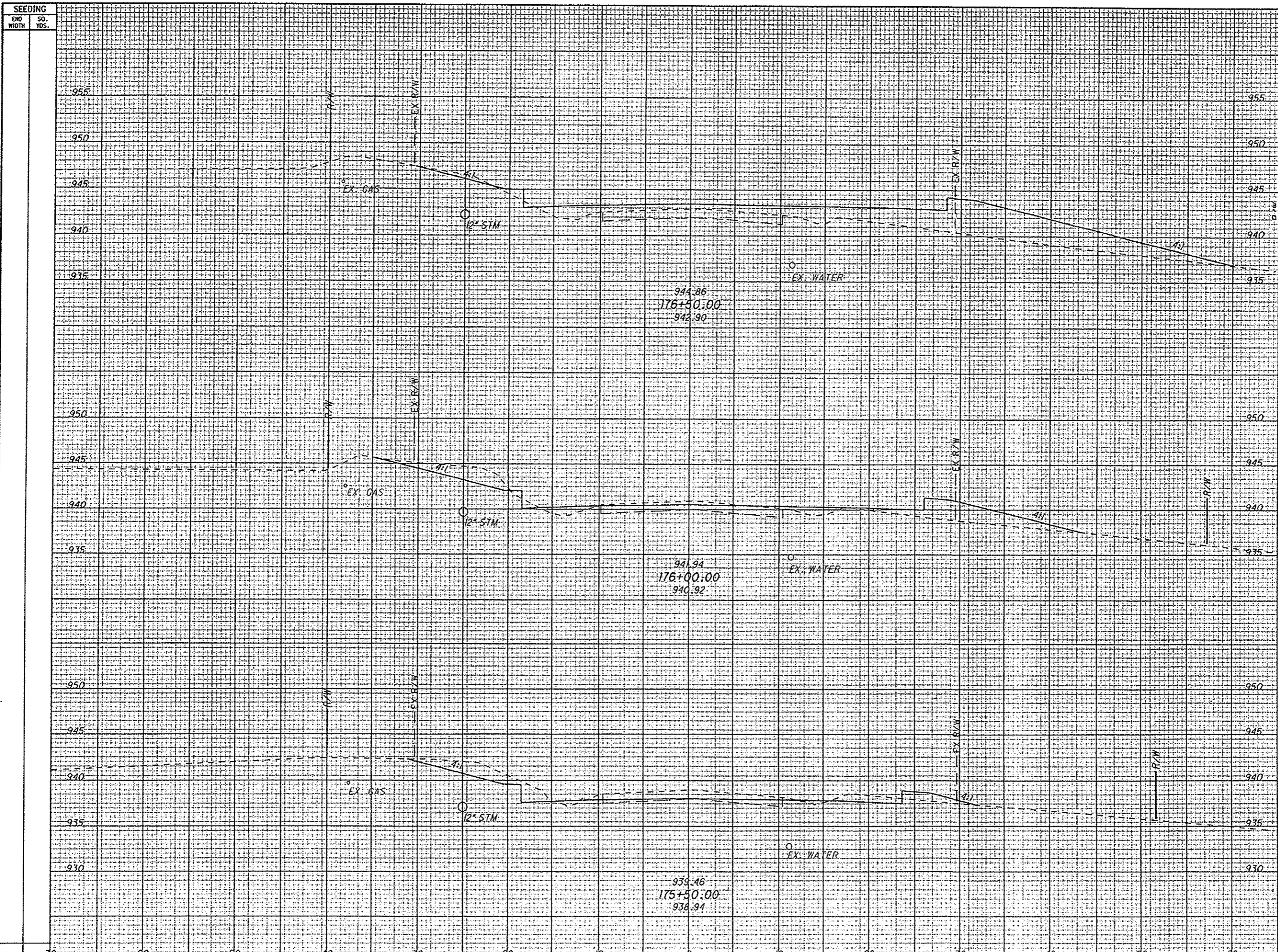
PROP. CB NO. 2-2B
 STA. 174+50.00, 30.43' RT.
 GRATE ELEV. = 933.31
 F. 12" = 929.31' (S)

1" - 12" CONDUIT,
 TYPE C @ 2.00%

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

LIC-THORWOOD

P:\P\p.dms\08268\78116.X5001.dgn 02-SEP-2009 9:52AM flove



| SEEDING | END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|--------------------------|----------|------|--------|------|------------|-----|---------|-----|
| | CUT | FILL | CUT | FILL | | | | |
| END WIDTH SO. YDS. | | | | | | | | |
| 955 | | | | | | | | |
| 950 | | | | | | | | |
| 945 | | | | | | | | |
| 940 | | | | | | | | |
| 935 | | | | | | | | |
| 930 | | | | | | | | |

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

LIC-THORNWOOD

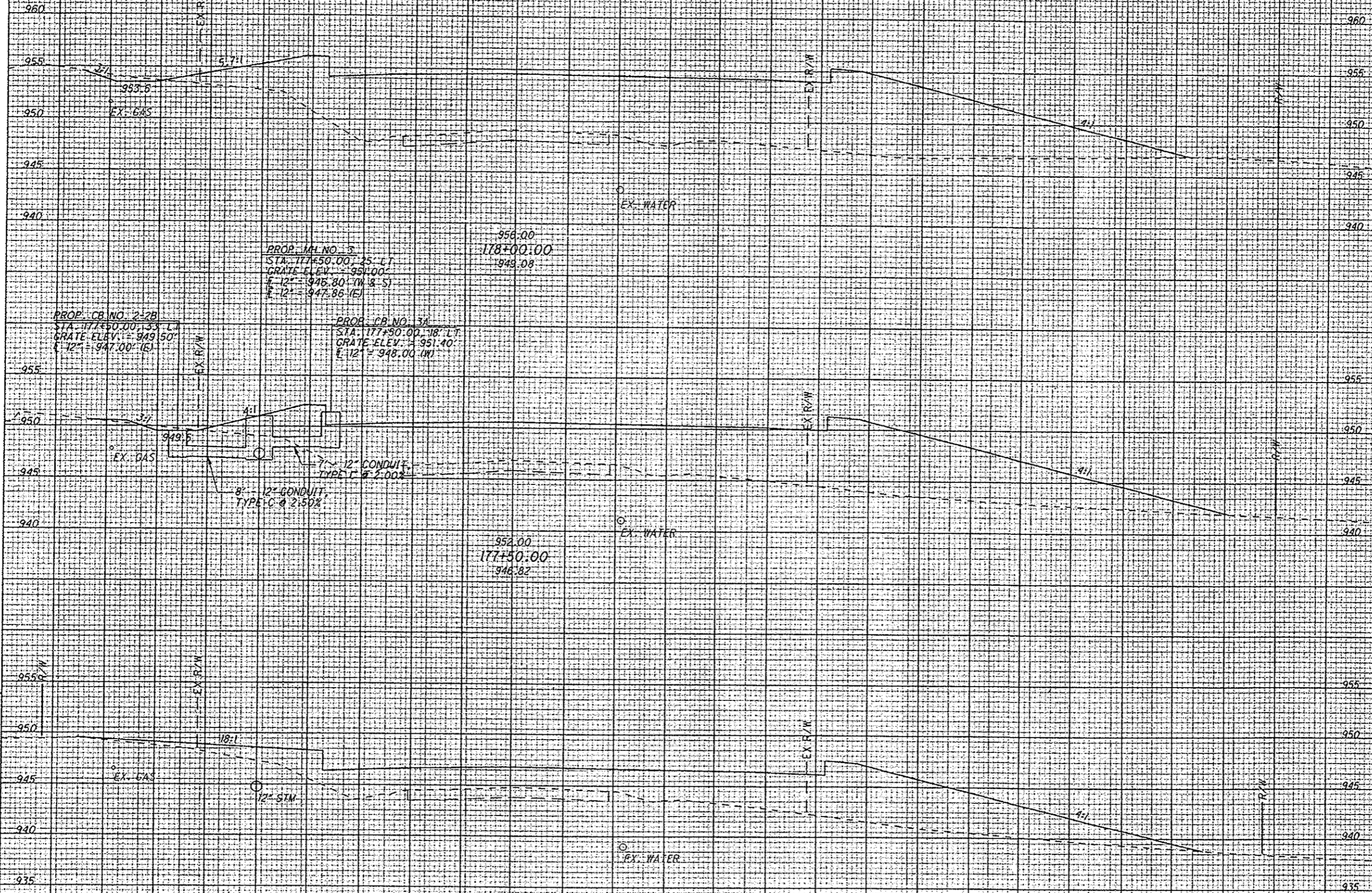
SEEDING

END WIDTH SQ. YDS.

END AREA VOLUME

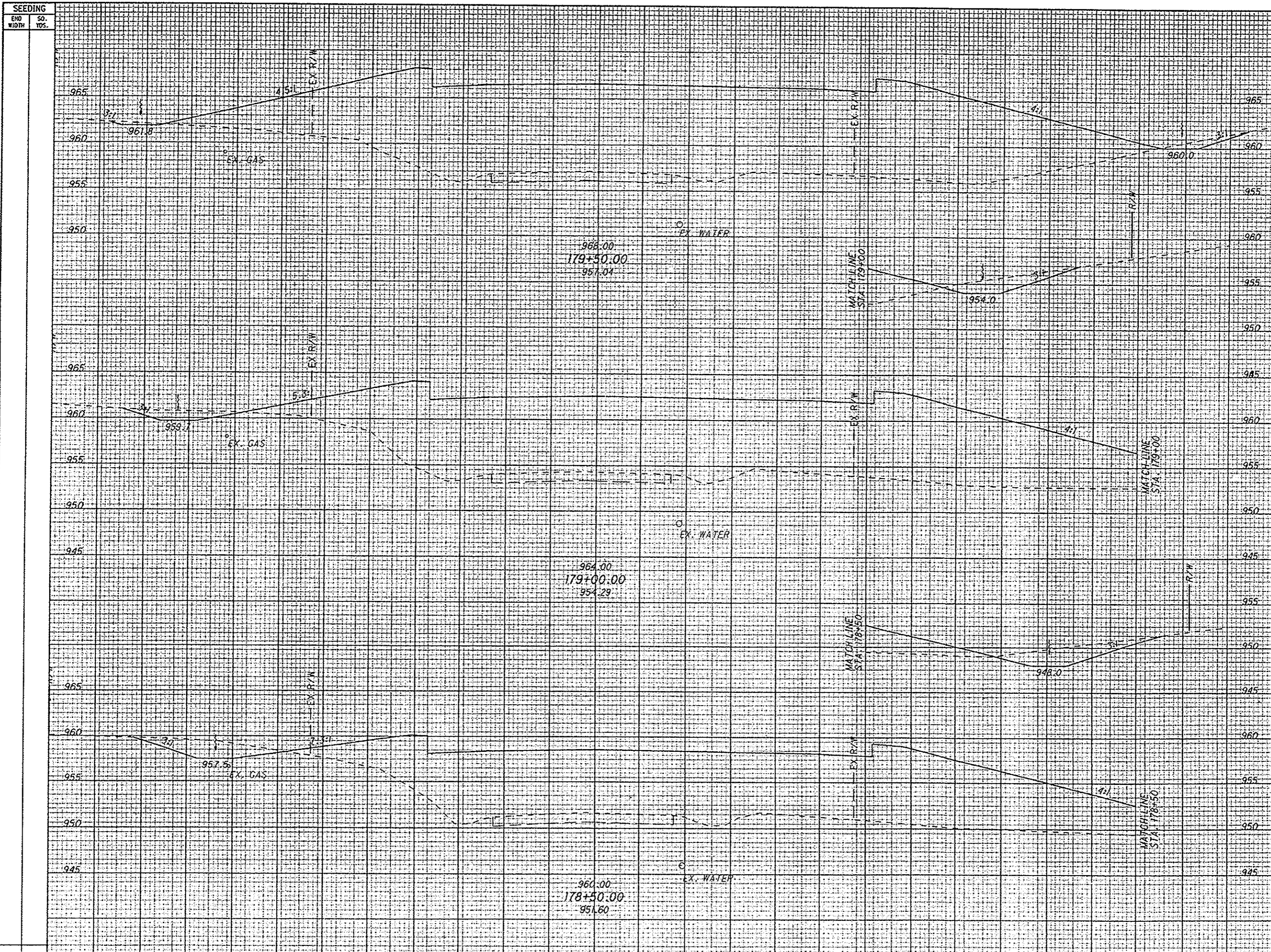
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



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

LIC-THORNWOOD



| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |
| | |

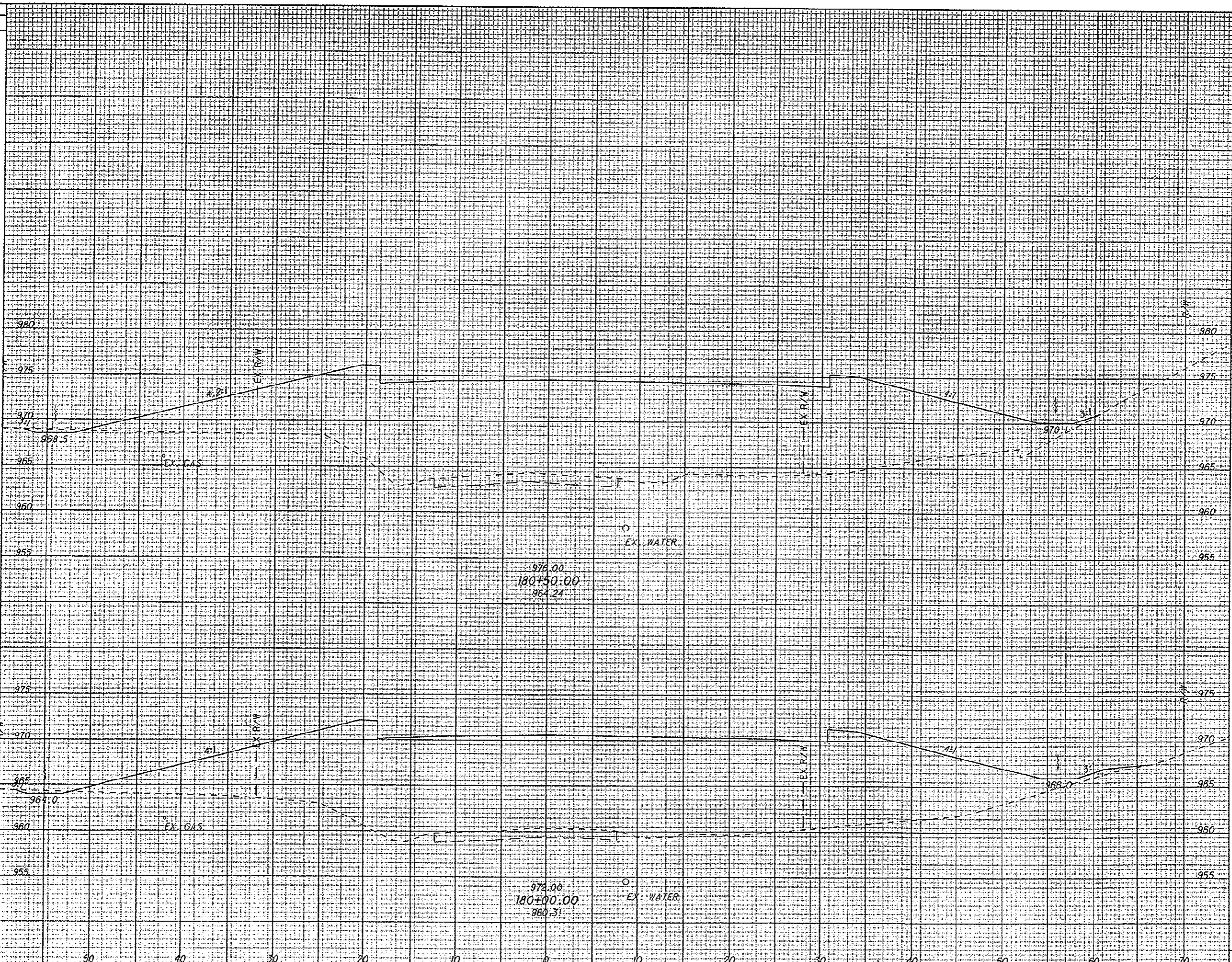
| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

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

LIC-THORNWOOD

P:\WP\dms08268\78116XS001.dgn 02-SEP-2009 9:52AM jlove

SEEDING
END SO-
WIDTH YOS.



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

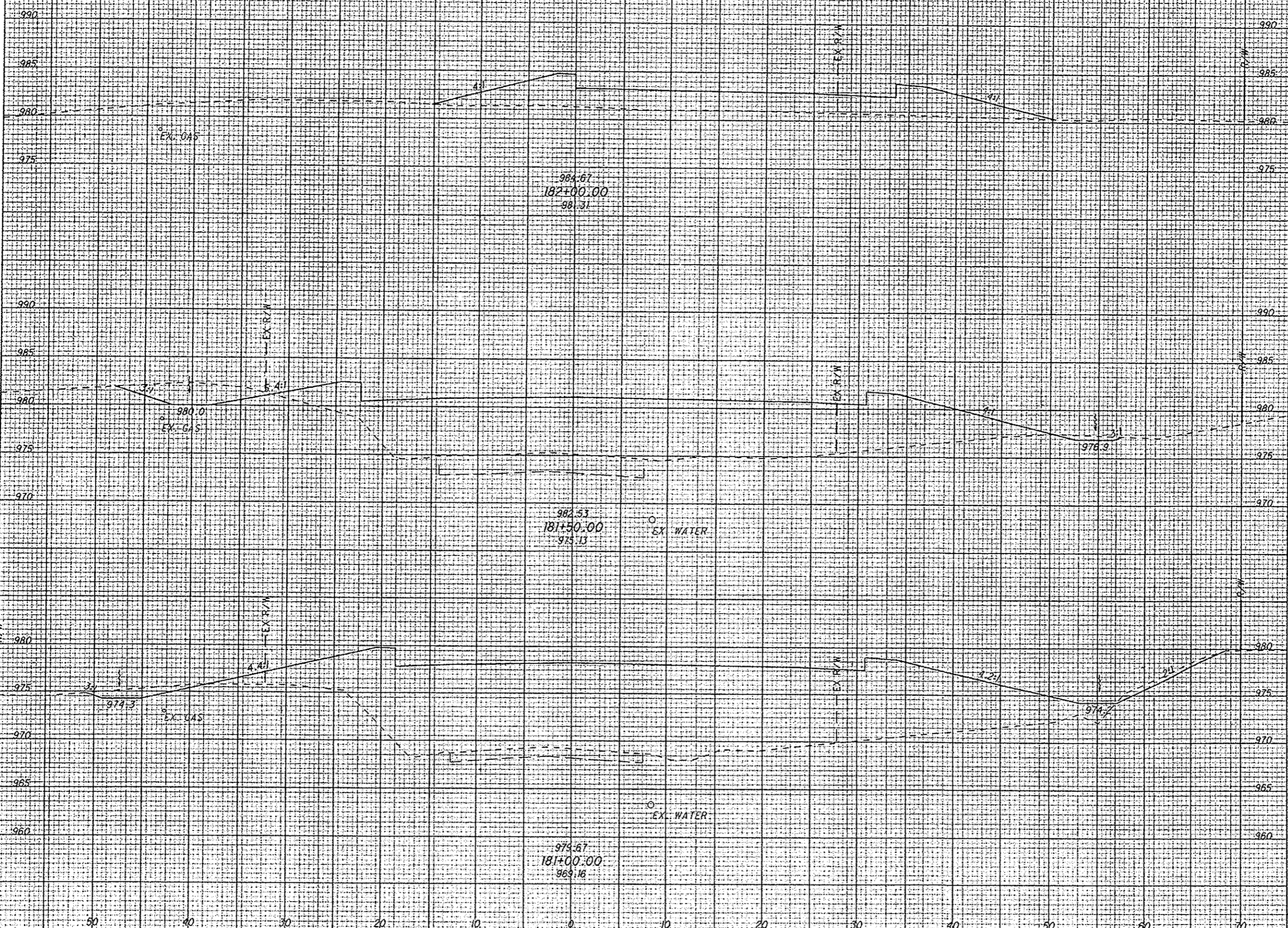
IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:53AM Flove

SEEDING
END SO.
WIDTH YOS.

END AREA
CUT FILL

VOLUME
CUT FILL

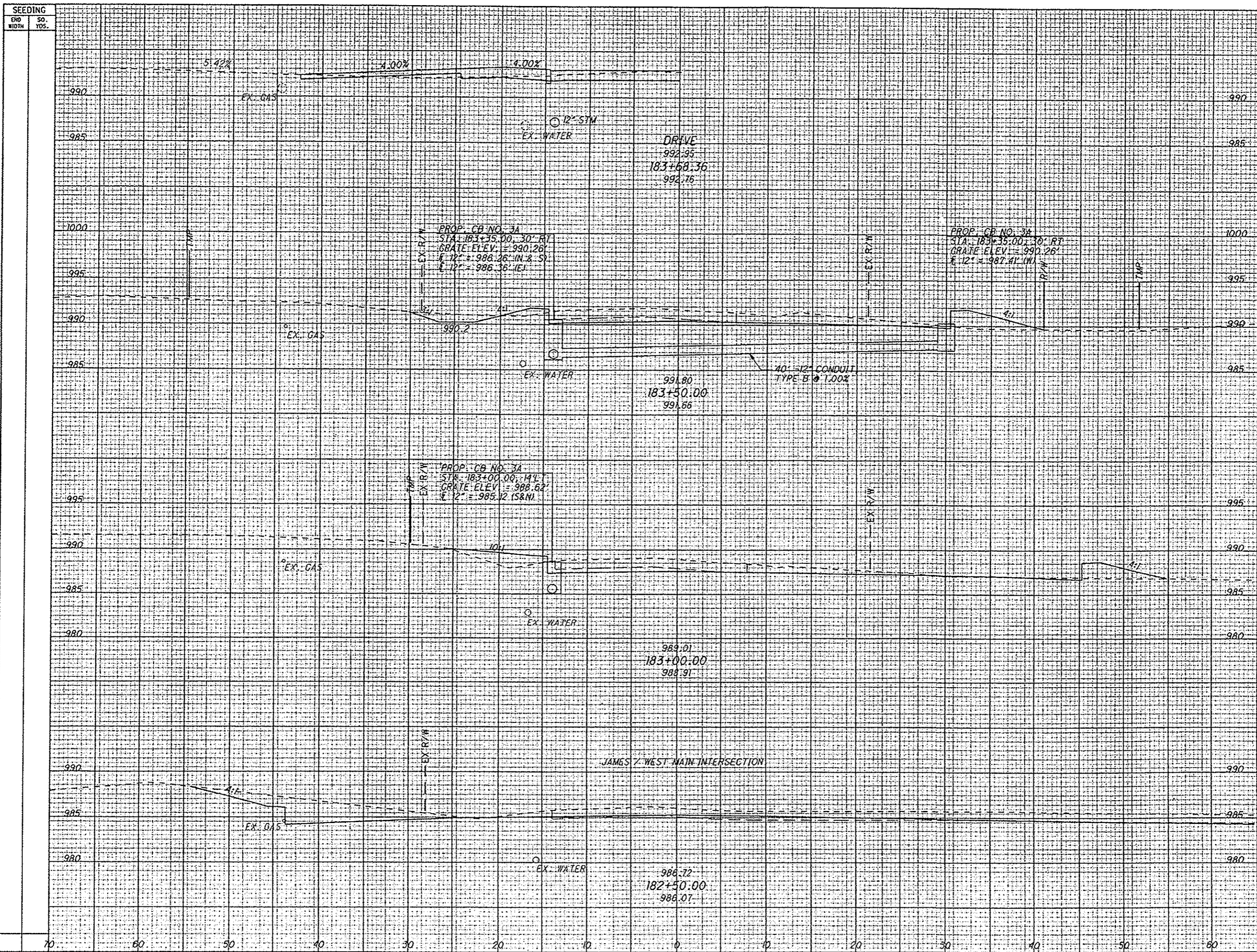
CALCULATED
MMB
CHECKED
JEL



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

LIC-THORNWOOD

IP_PWF.dms08268\78116XS001.dgn 02-SEP-2009 9:53AM Prove



| STATION | END AREA | | VOLUME | |
|-----------|----------|------|--------|------|
| | CUT | FILL | CUT | FILL |
| 182+50.00 | | | | |
| 183+00.00 | | | | |
| 183+50.00 | | | | |

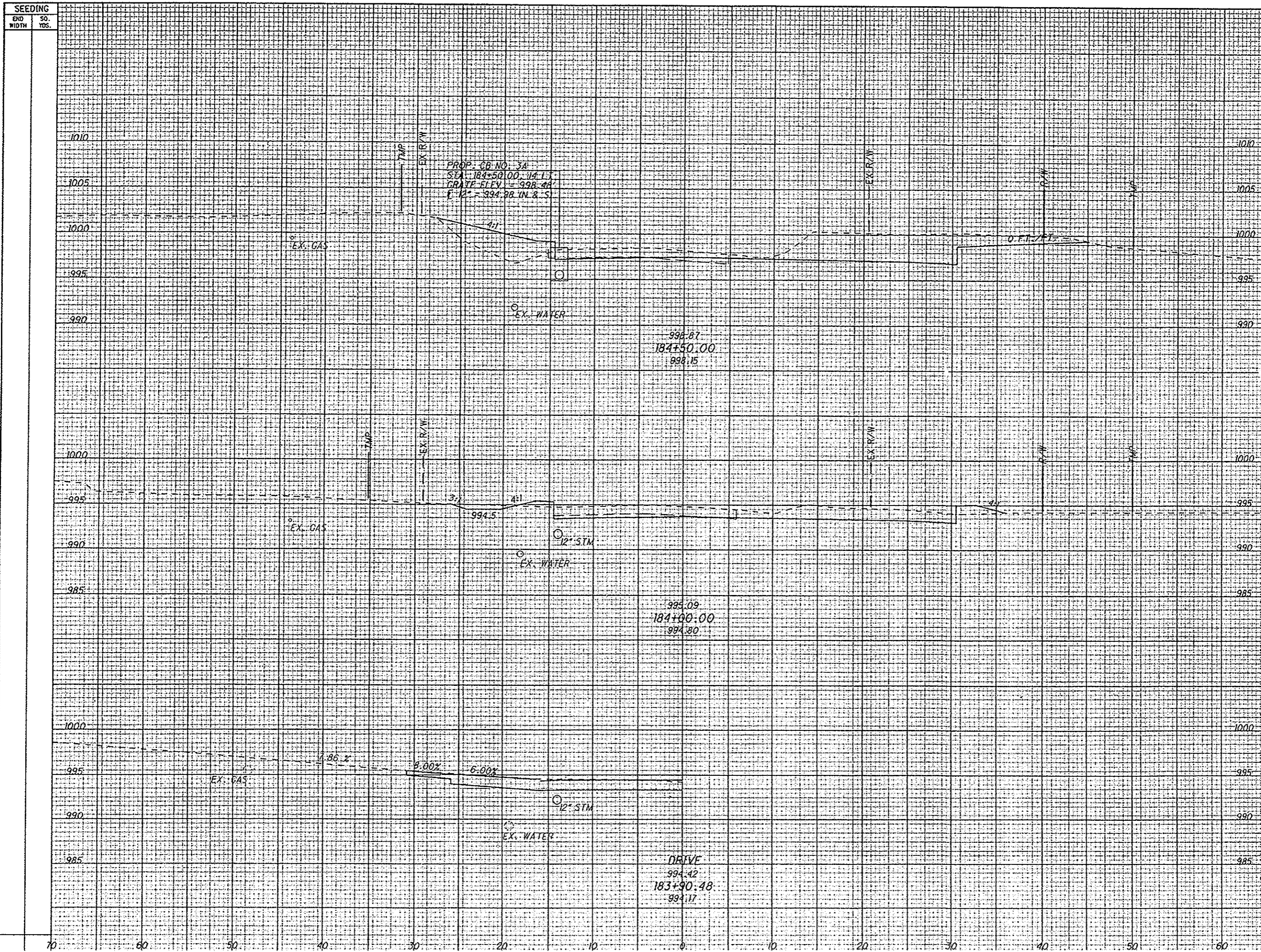
LIC-THORNWOOD

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

| | |
|------------|-----|
| CALCULATED | MMB |
| CHECKED | JEL |

200
285

P:\PWP_dms08268\78116\5001.dgn 02-SEP-2009 9:53AM flove



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

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

LIC-THORNWOOD

P:\WP-dms\08266\78116XS001.dgn_02-SEP-2009 9:53AM flove

SEEDING

END WIDTH SQ. YDS.

END AREA

VOLUME

CUT FILL

CUT FILL

CALCULATED
MMMB
CHECKED
JEL

1020
1015
1010
1005
1000
1015
1010
1005
1000
995

1020
1015
1010
1005
1000
1015
1010
1005
1000
995

EX. GAS

0 FT. / FT.

EX. WATER

1007.81
185+50:00
1006.21

EX. GAS

0 FT. / FT.

PROP. CB NO. 3A
STA. 185+00:00, 14 L.
GRATE ELEV. = 1002.76
E-12 = 999.26' (S)

EX. WATER

1008.15
185+00:00
1002.07

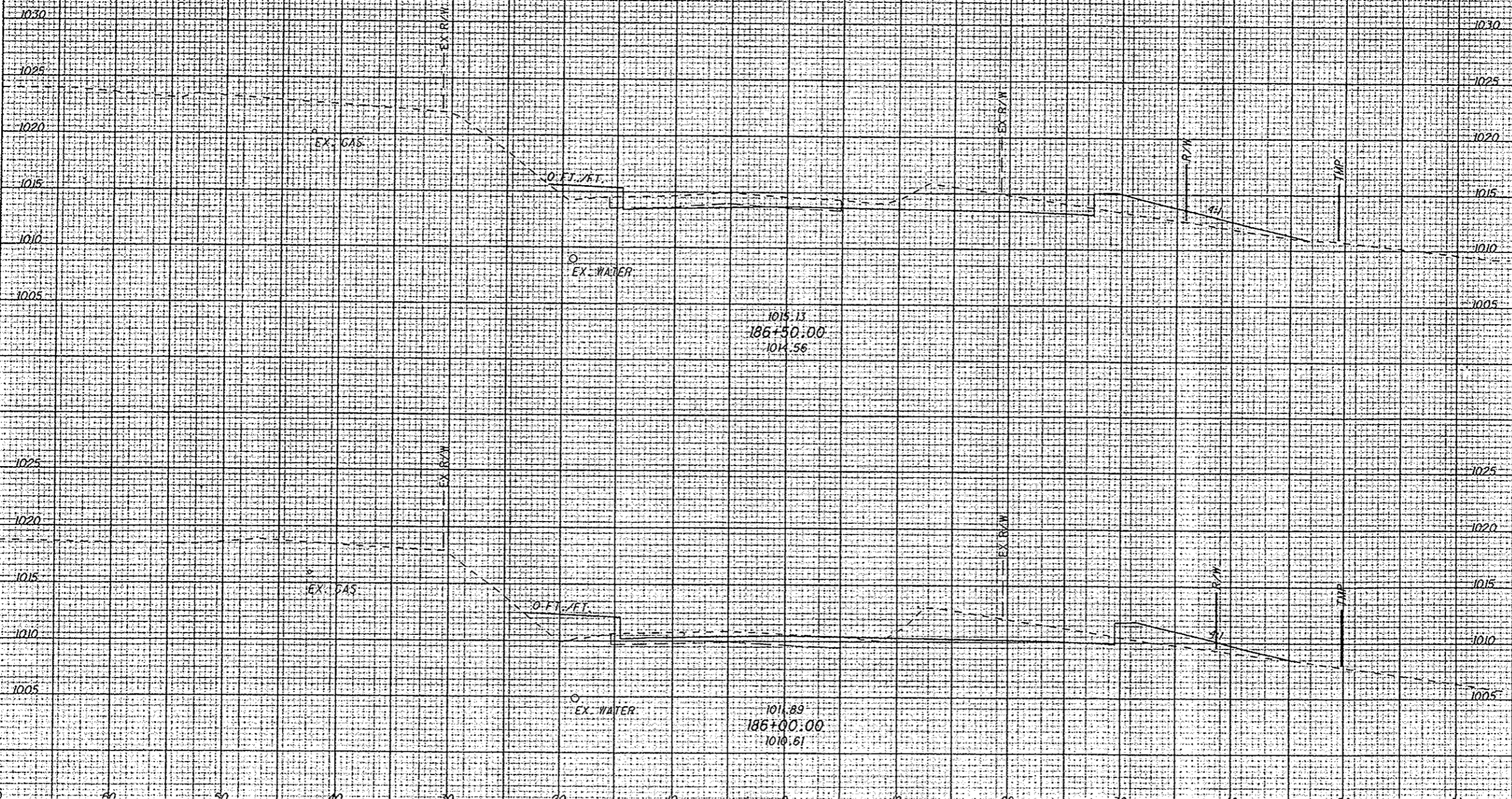
CROSS SECTIONS - THORNWOOD
STA. 185+00.00 TO STA. 185+50.00

LIC-THORNWOOD

202
285

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
OUT FILL OUT FILL
CALCULATED
MMB CHECKED
JEL



1015.13
186+50.00
1014.56

1011.89
186+00.00
1010.61

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

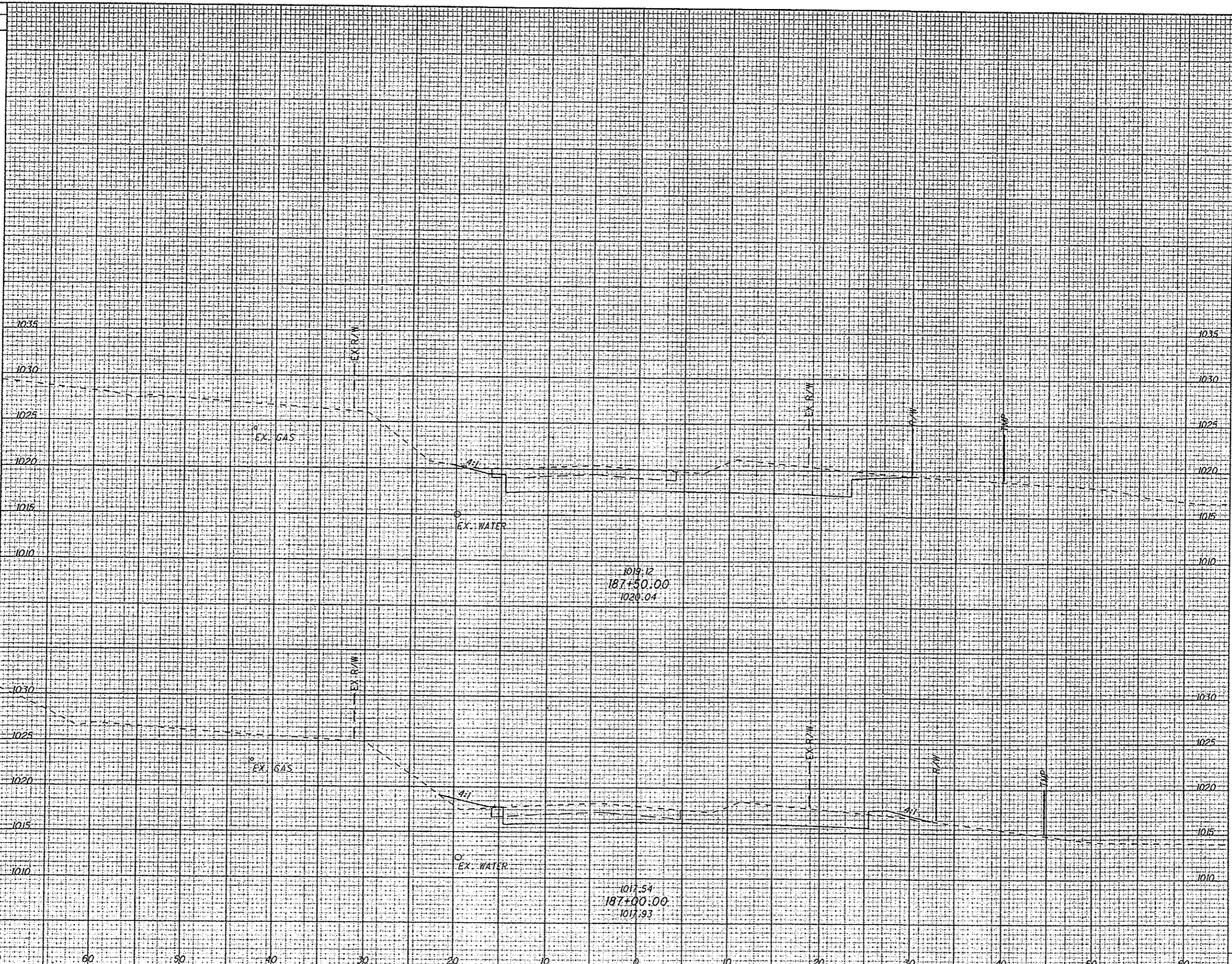
LIC-THORNWOOD

P:\PWP-dms08268\78116X5001.dgn 02-SEP-2009 9:54AM jrllove

SEEDING

END SO. WIDTH YDS.

| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

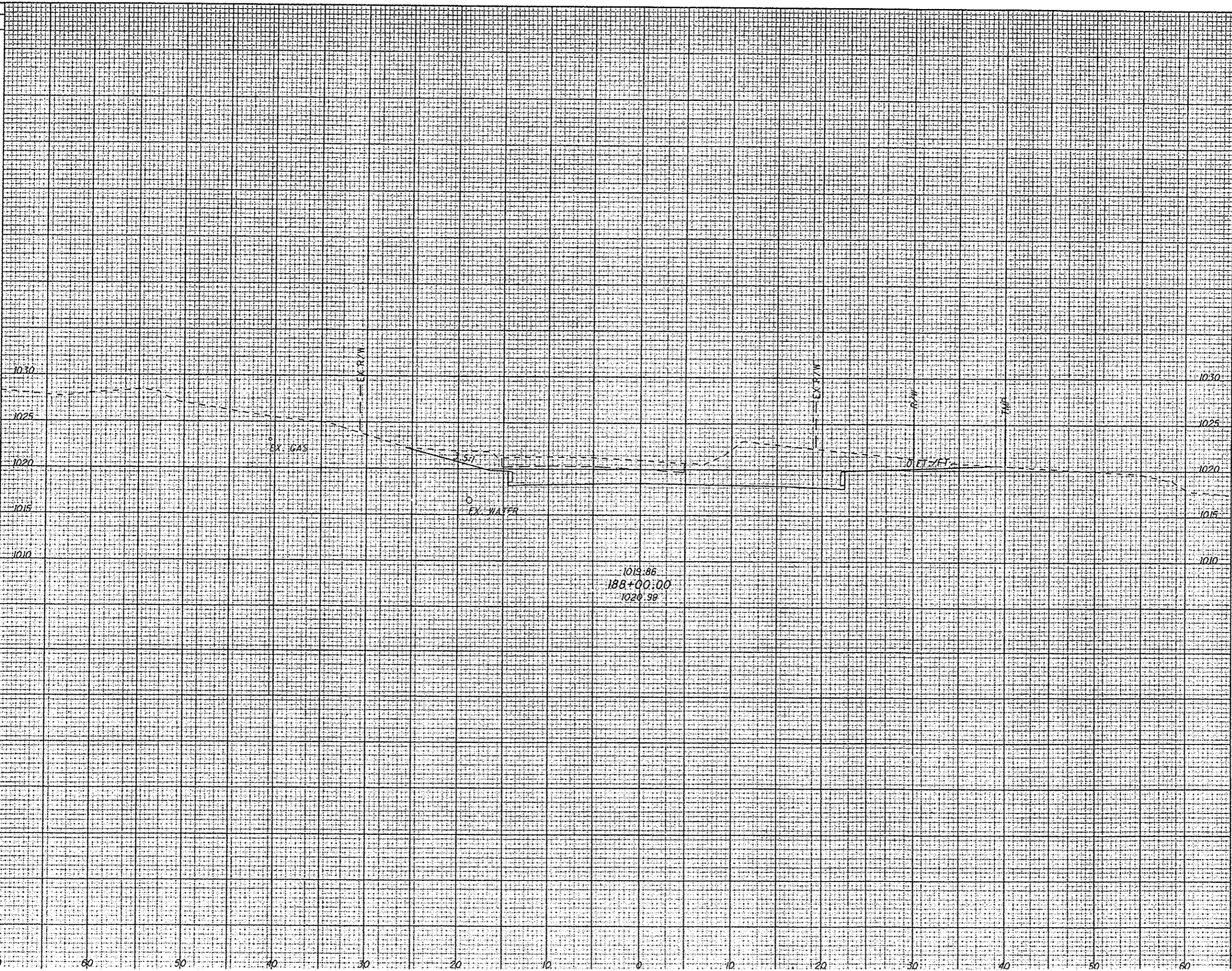


CROSS SECTIONS - THORNWOOD
STA. 187+00.00 TO STA. 187+50.00

LIC-THORNWOOD

204
285

SEEDING
END SO.
WIDTH YDS.



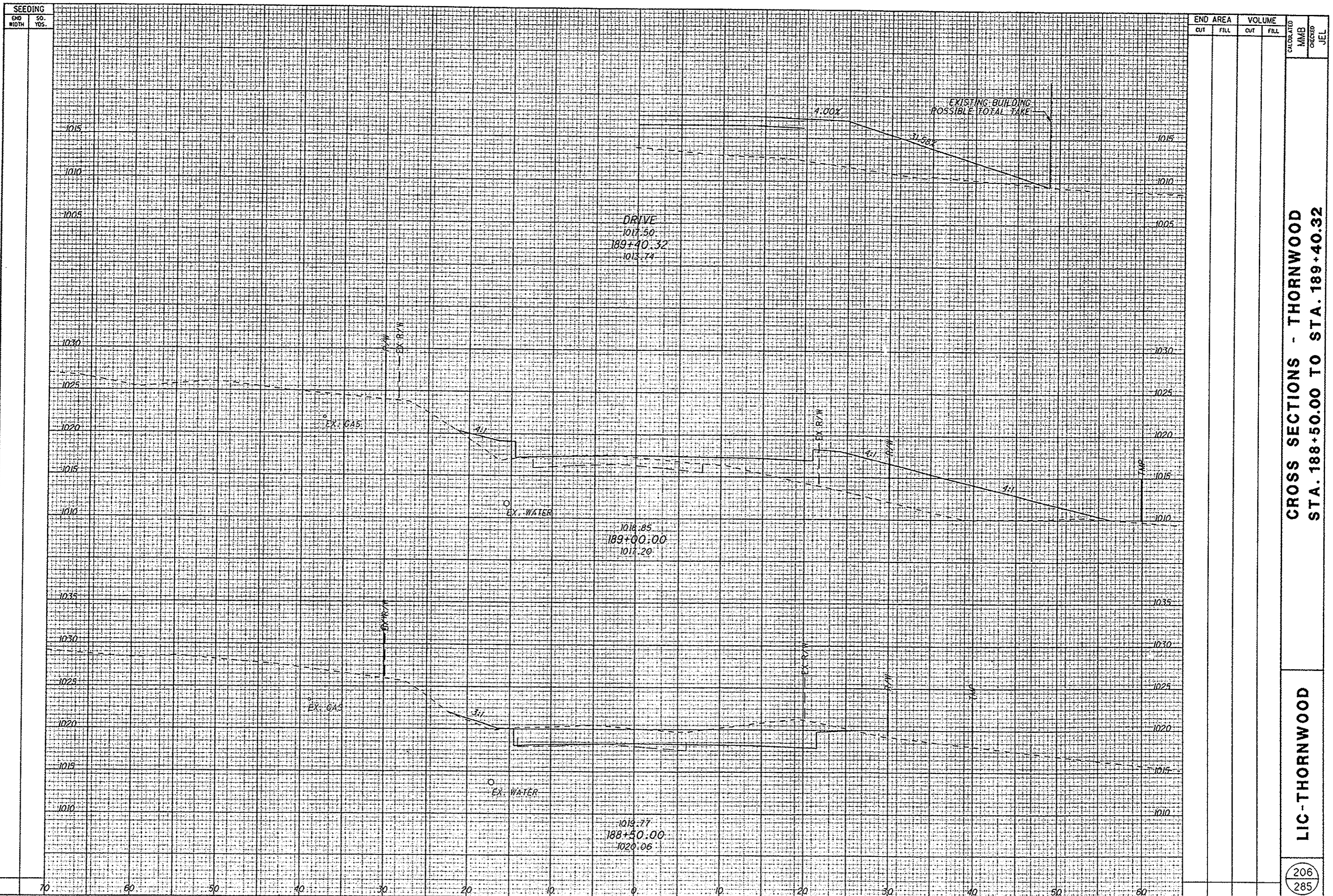
| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

| | |
|------------|-----|
| CALCULATED | MMB |
| CHECKED | JEL |

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

LIC-THORNWOOD

IP_PWP.dms08288\78116XS001.dgn 02-SEP-2009 9:54AM jlove



| SEEDING | | END AREA | | VOLUME | | CALCULATED | CHECKED |
|-----------|----------|----------|------|--------|------|------------|---------|
| END WIDTH | SO. YDS. | CUT | FILL | CUT | FILL | | |
| | | | | | | | |

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

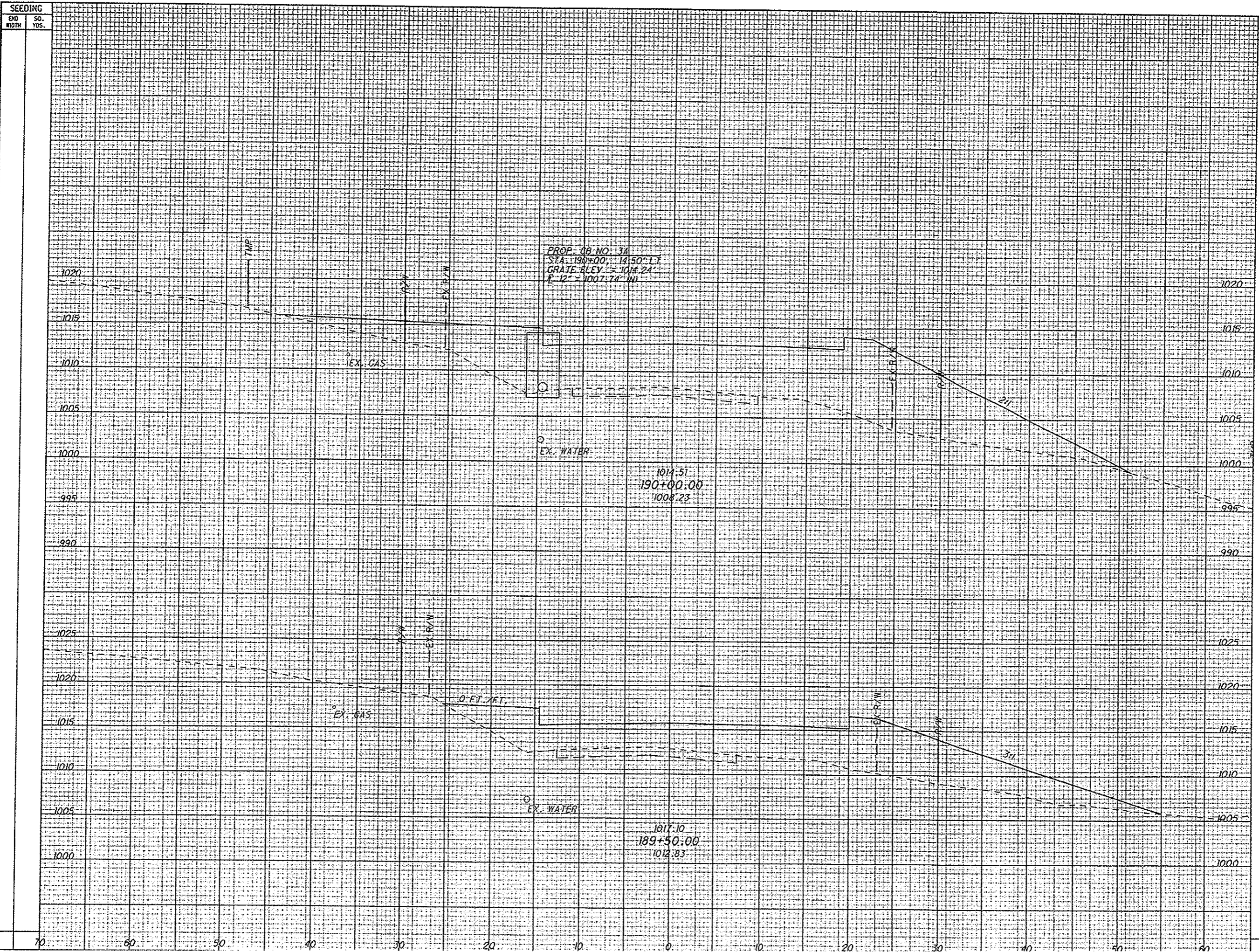
LIC-THORNWOOD

IP_PWP.dms08268\78116\5001.dgn_02-SEP-2009 9:54AM ptlove

SEEDING
 END SO.
 NORTH YDS.

END AREA
 OUT FILL
 VOLUME
 OUT FILL

CALCULATED
 MMB
 CUBIC YDS
 JEL



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

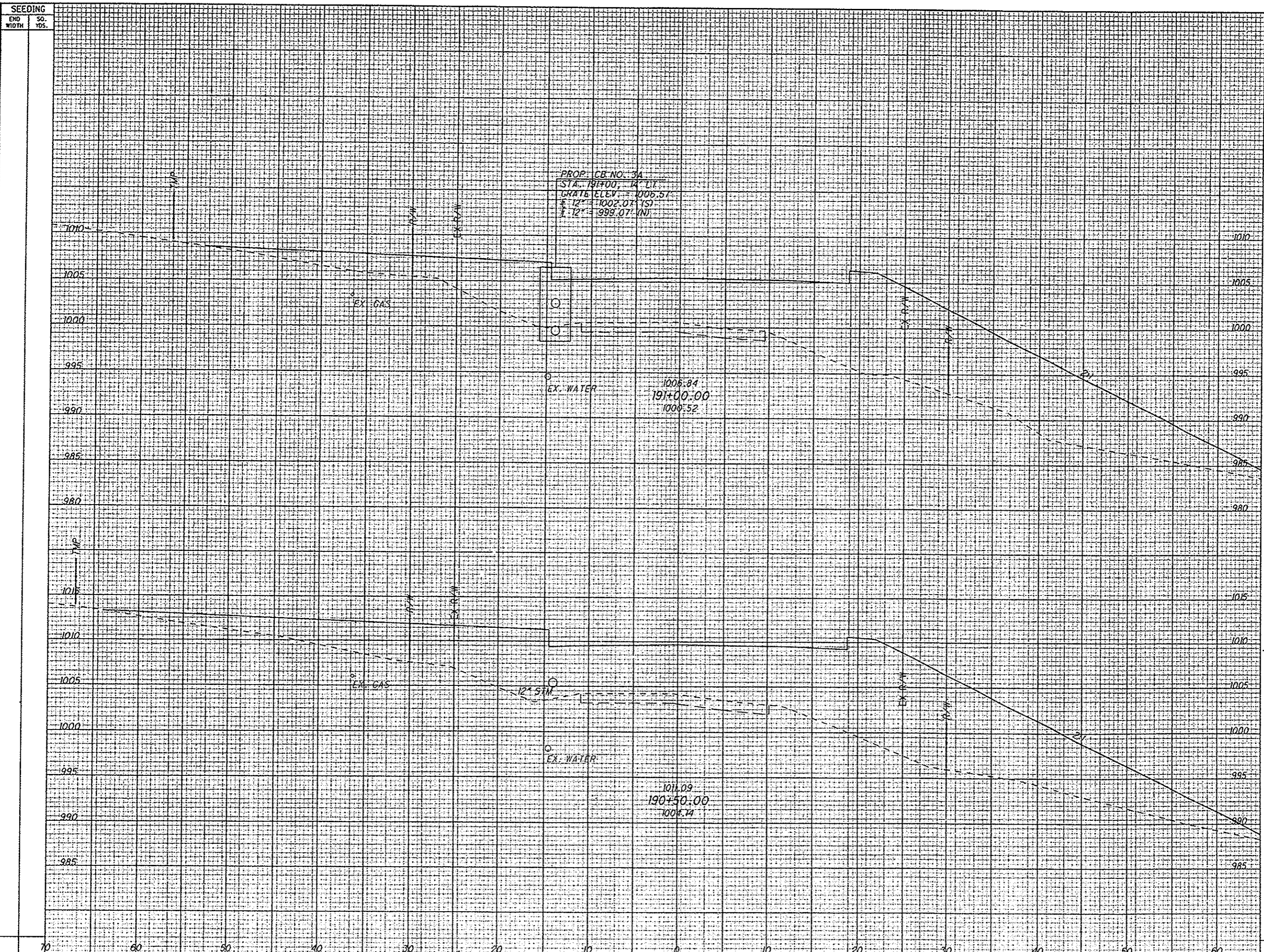
LIC-THORNWOOD

SEEDING
END WIDTH SQ. YDS.

| END AREA | | VOLUME | | CALCULATED | CHECKED |
|----------|------|--------|------|------------|---------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

LIC-THORNWOOD

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



SEEDING

END WIDTH SO. YDS.

| END WIDTH | SO. YDS. | |
|-----------|----------|------|
| | CUT | FILL |
| | | |

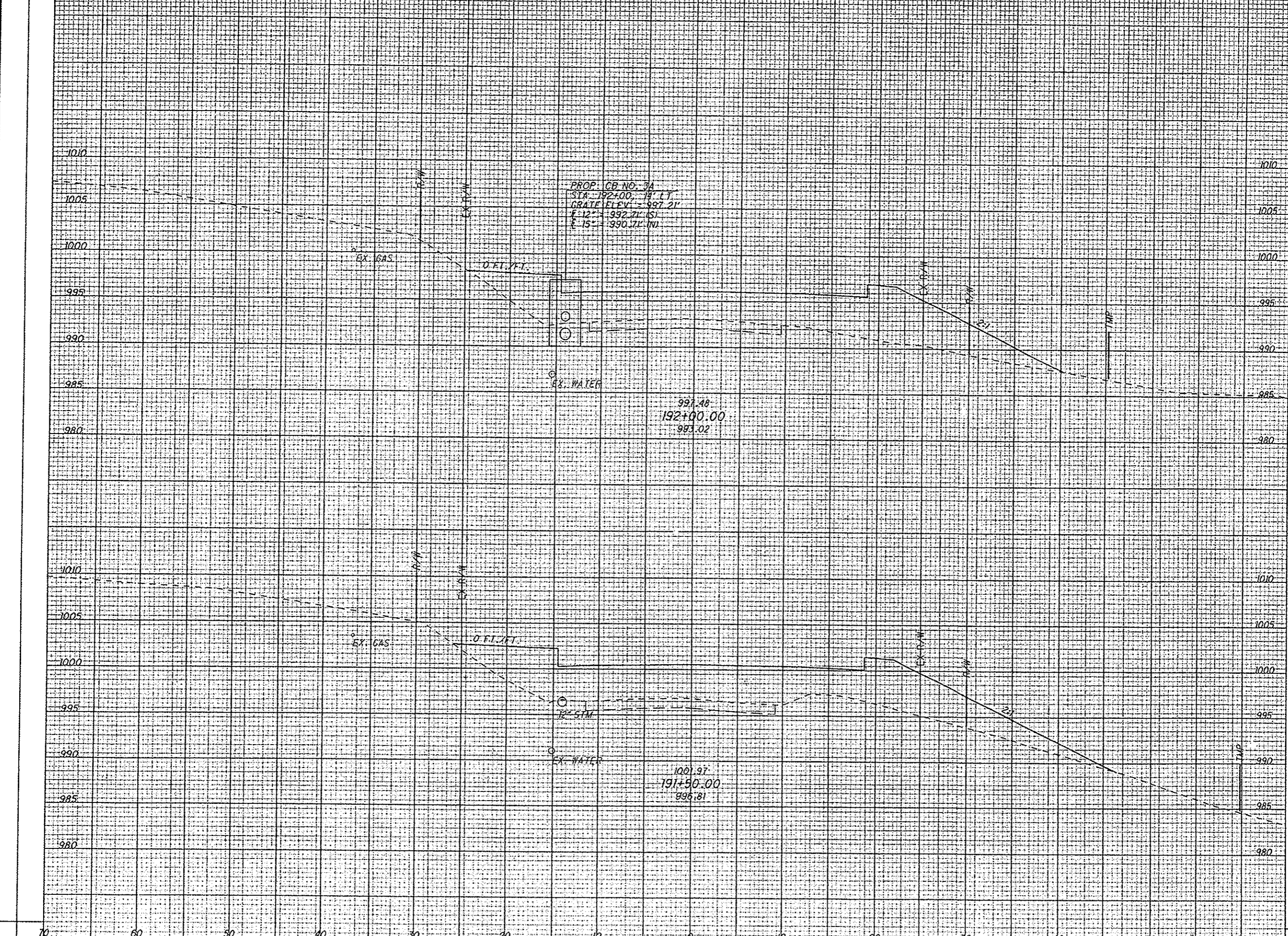
END AREA VOLUME

| END AREA | VOLUME | |
|----------|--------|------|
| | CUT | FILL |
| | | |

| CALCULATED | MMB | CHECKED | JEL |
|------------|-----|---------|-----|
| | | | |

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

LIC-THORNWOOD



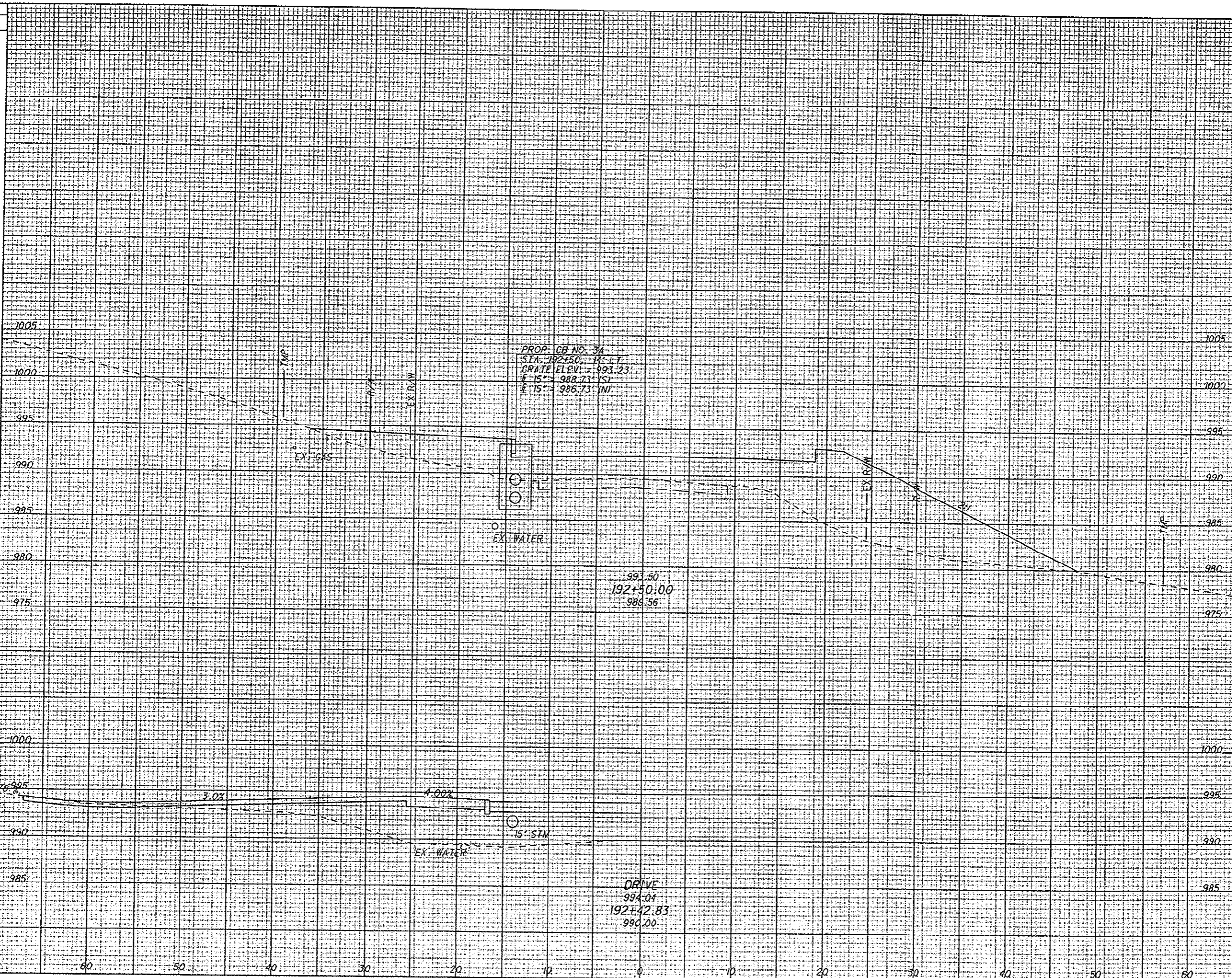
PROP. CB NO. 34
STA. 192+00.00 12' L.T.
GRATE ELEV. = 997.21'
E. 12" = 992.71' (S)
E. 15" = 990.71' (W)

997.48
192+00.00
993.02

1001.97
191+50.00
996.81

IP_PWP-dms08268\78116XS001.dgn 02-SEP-2009 9:55AM jlove

SEEDING
END WIDTH SO. YDS.



PROP. CB NO. 34
 STA. 192+50.14' LT.
 GRATE ELEV. = 993.23'
 15" - 988.73' (S)
 15" - 986.73' (N)

993.50
 192+50:00
 988.56

DRIVE
 994.04
 192+42.83
 990.00

| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

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

LIC-THORNWOOD

IP_PWP:dms08268\78116XS001.dgn 02-SEP-2009 9:55AM jrove

SEEDING
END WIDTH SO. YDS.

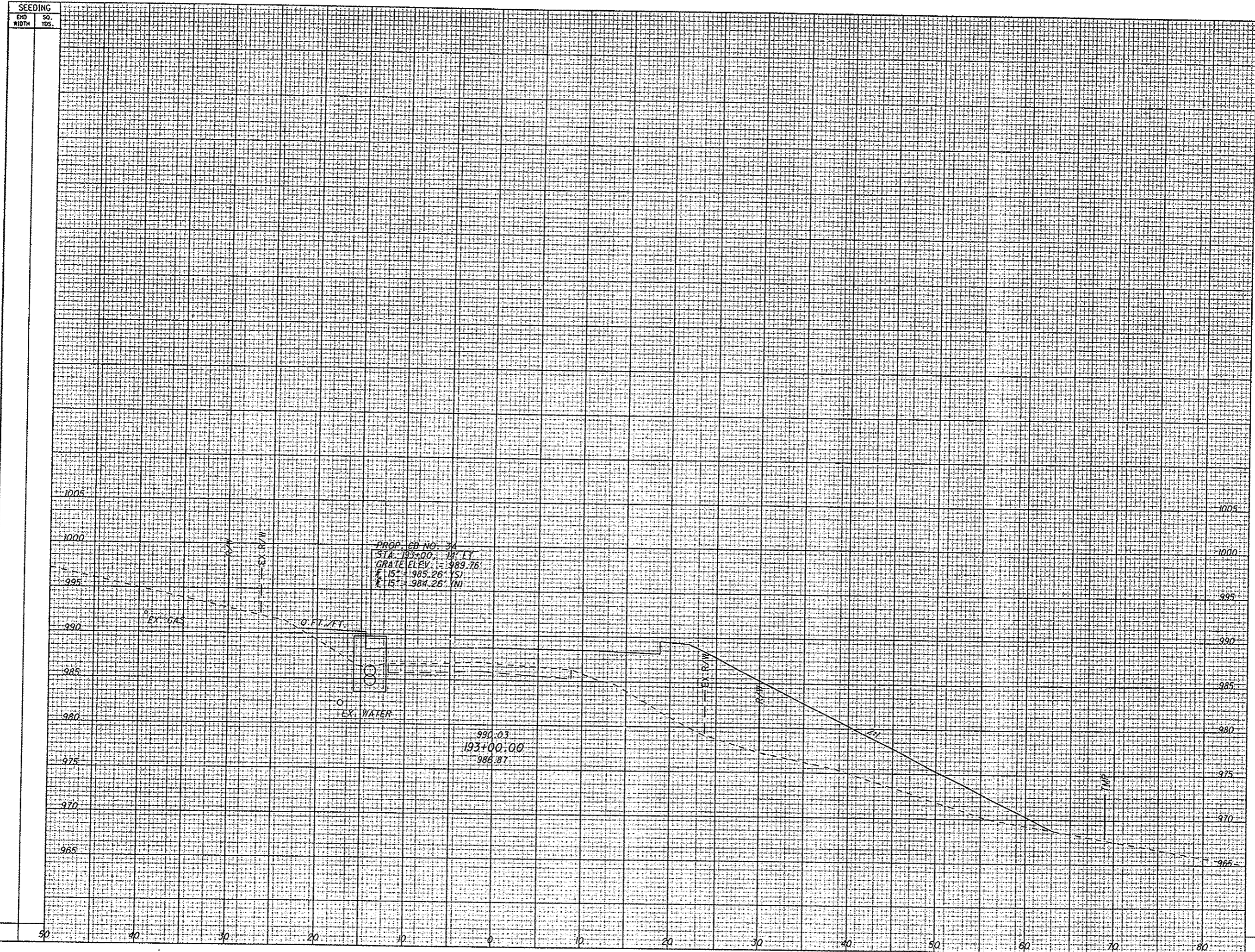
| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

| | | | |
|------------|-----|---------|-----|
| CALCULATED | MMB | CHECKED | JEL |
|------------|-----|---------|-----|

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

LIC-THORNWOOD

211
285



IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:55AM jlove

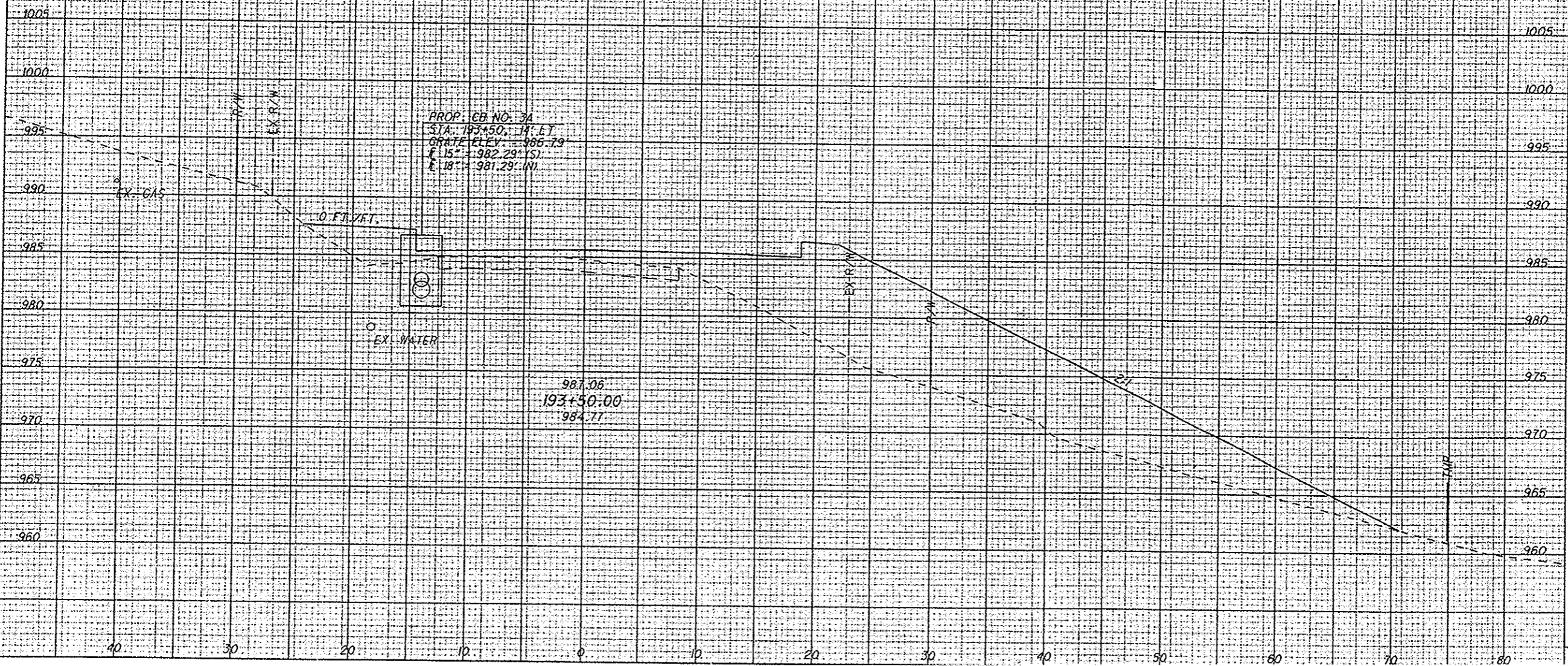
SEEDING

END SO.
WIDTH YDS.

END AREA
OUT FILL

VOLUME
OUT FILL

CALCULATED
MMB
CHECKED
JEL



PROP. CB NO. 3A
 STA. 193+50.14' LT
 GRATE ELEV. = 986.79
 F 15' = 982.29' (S)
 F 18' = 981.29' (N)

987.06
 193+50.00
 984.77

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

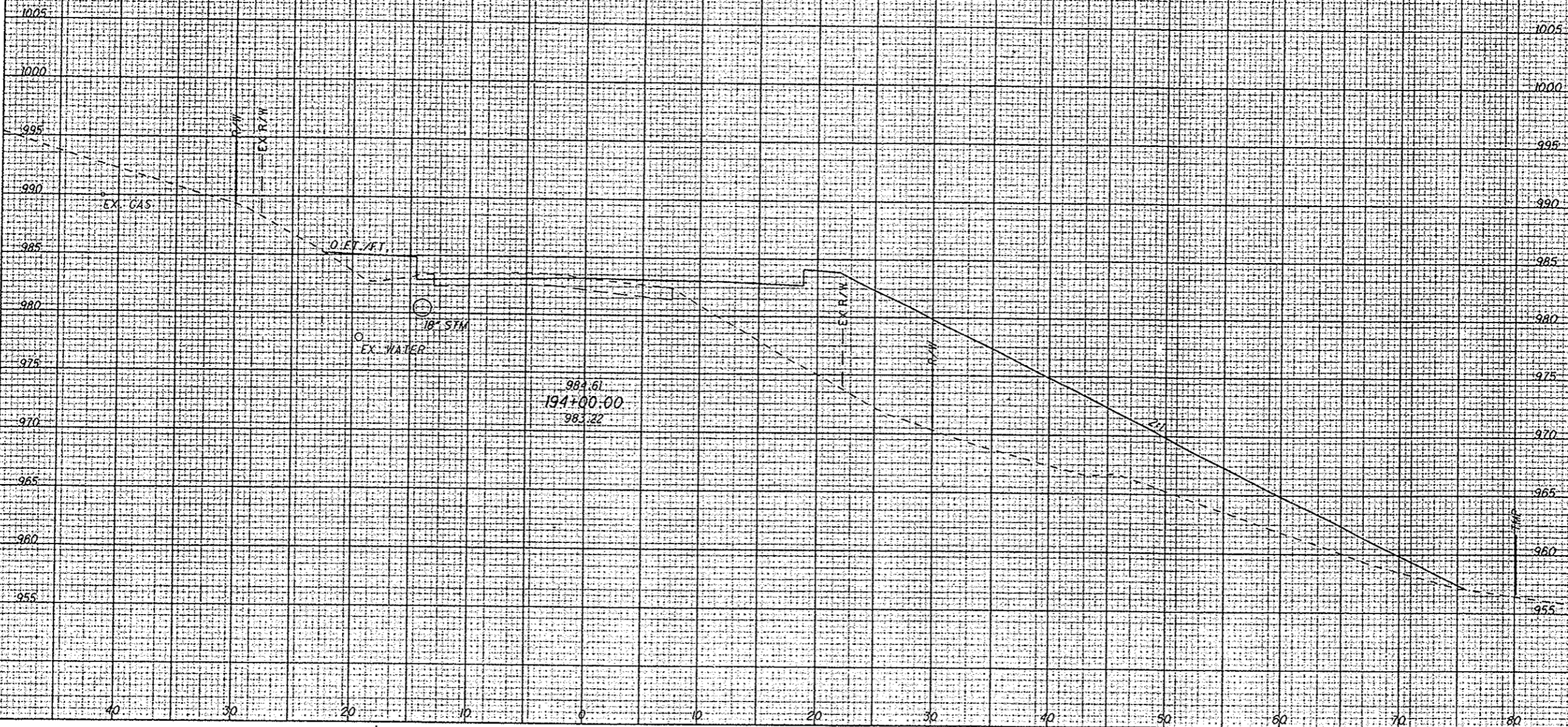
LIC-THORNWOOD

212
 285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:55AM jlove

SEEDING
END WIDTH SO. YDS.

| END AREA | | VOLUME | | CALCULATED | MMB | CREATED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| OUT | FILL | OUT | FILL | | | | |
| | | | | | | | |



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

LIC-THORNWOOD

213
285

IP_PWP.dms08268\78116\S001.dgn 02-SEP-2009 9:55AM jlove

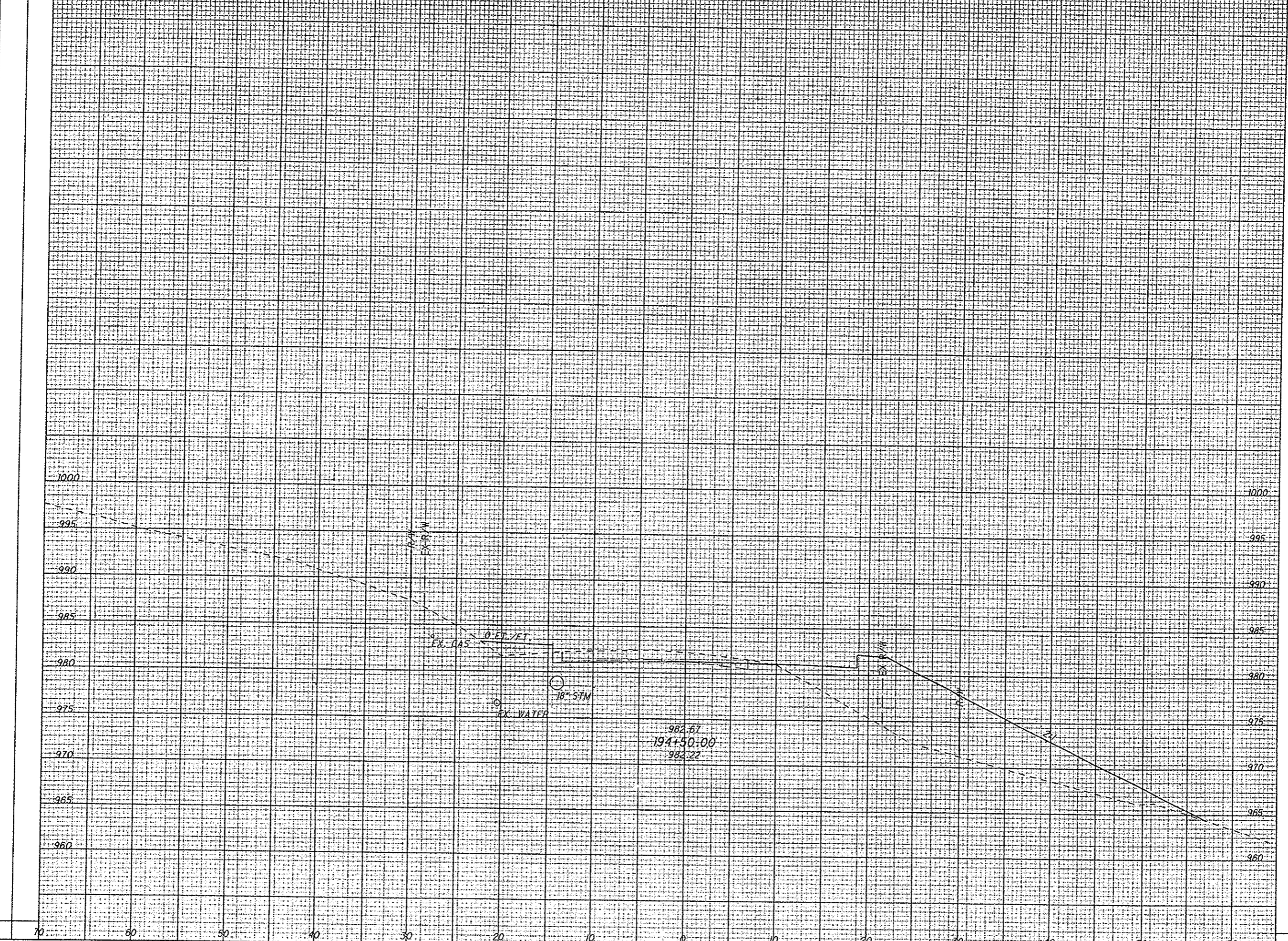
SEEDING

END WIDTH SO. YDS.

END AREA VOLUME

CUT FILL CUT FILL

CALCULATED
MINI
CHECKED
JEL



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

LIC-THORNWOOD

214
285

P:\PWP_dms08268\78116\5001.dgn 02-SEP-2009 9:55AM jlove

SEEDING

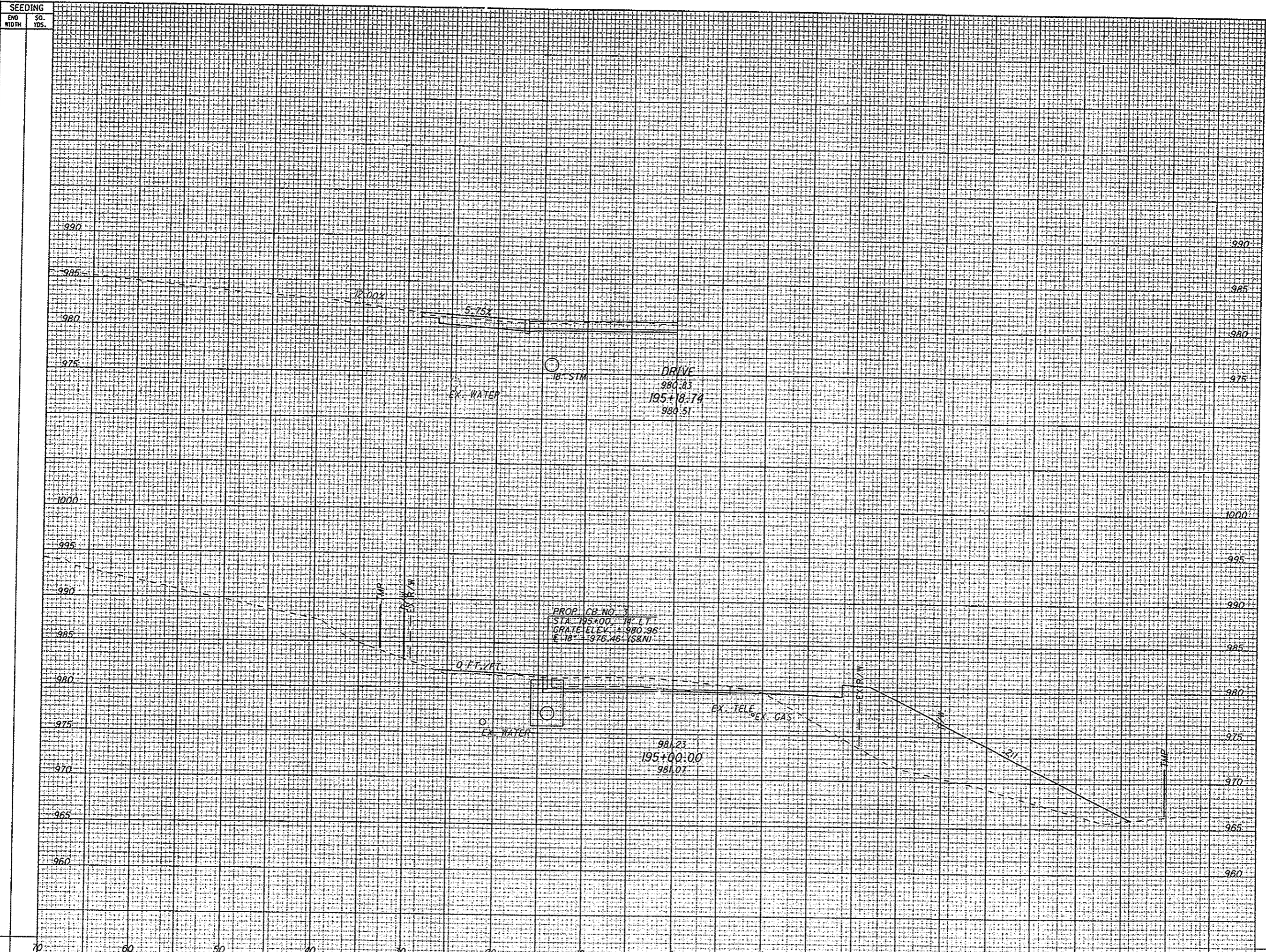
END WIDTH SQ. YDS.

| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| OUT | FILL | OUT | FILL | | |
| | | | | | |

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

LIC-THORNWOOD

215
200

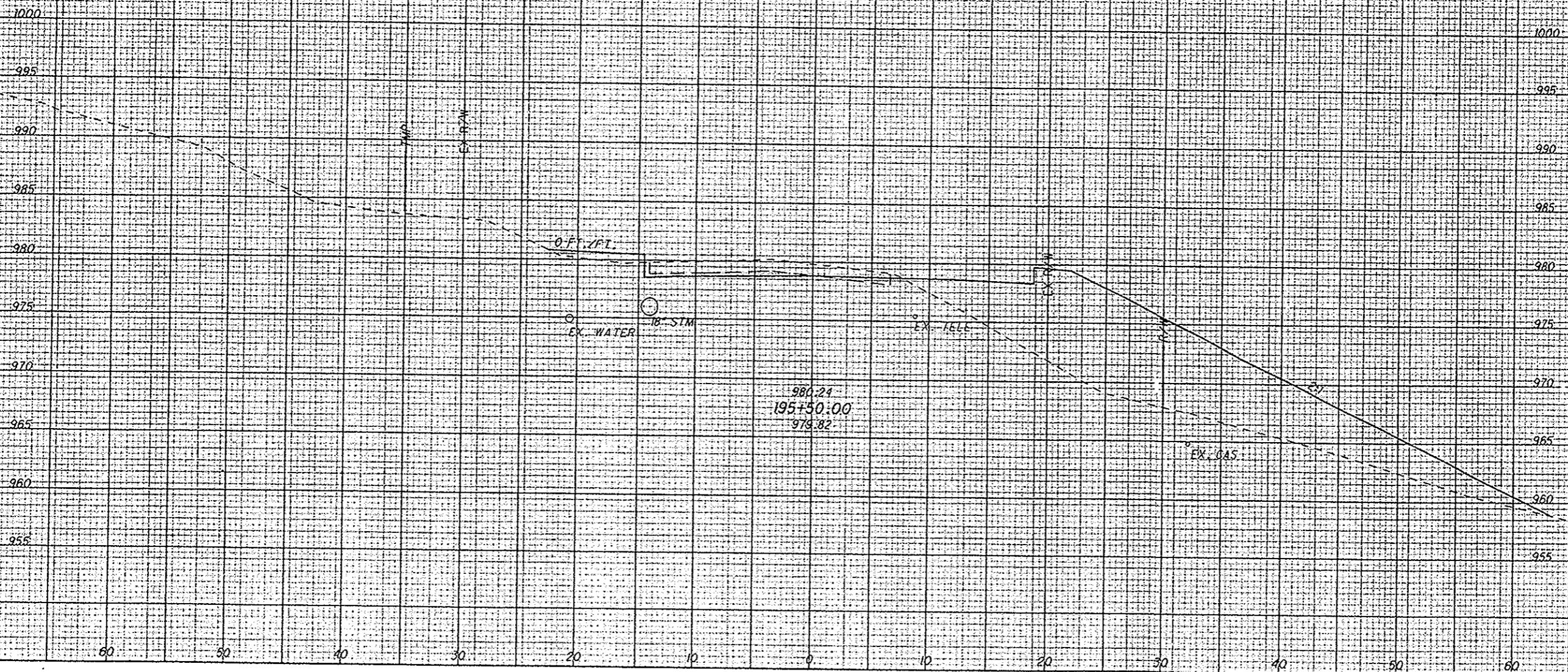


| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| OUT | FILL | OUT | FILL | | |
| | | | | | |

IP_PWP.dms08268\78116X5001.dgn 02-SEP-2009 9:56AM jlove

| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |

| END AREA | | VOLUME | | CALCULATED | MMB | CREED | JEL |
|----------|------|--------|------|------------|-----|-------|-----|
| OUT | FILL | OUT | FILL | | | | |



980.21
195+50:00
979.82

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

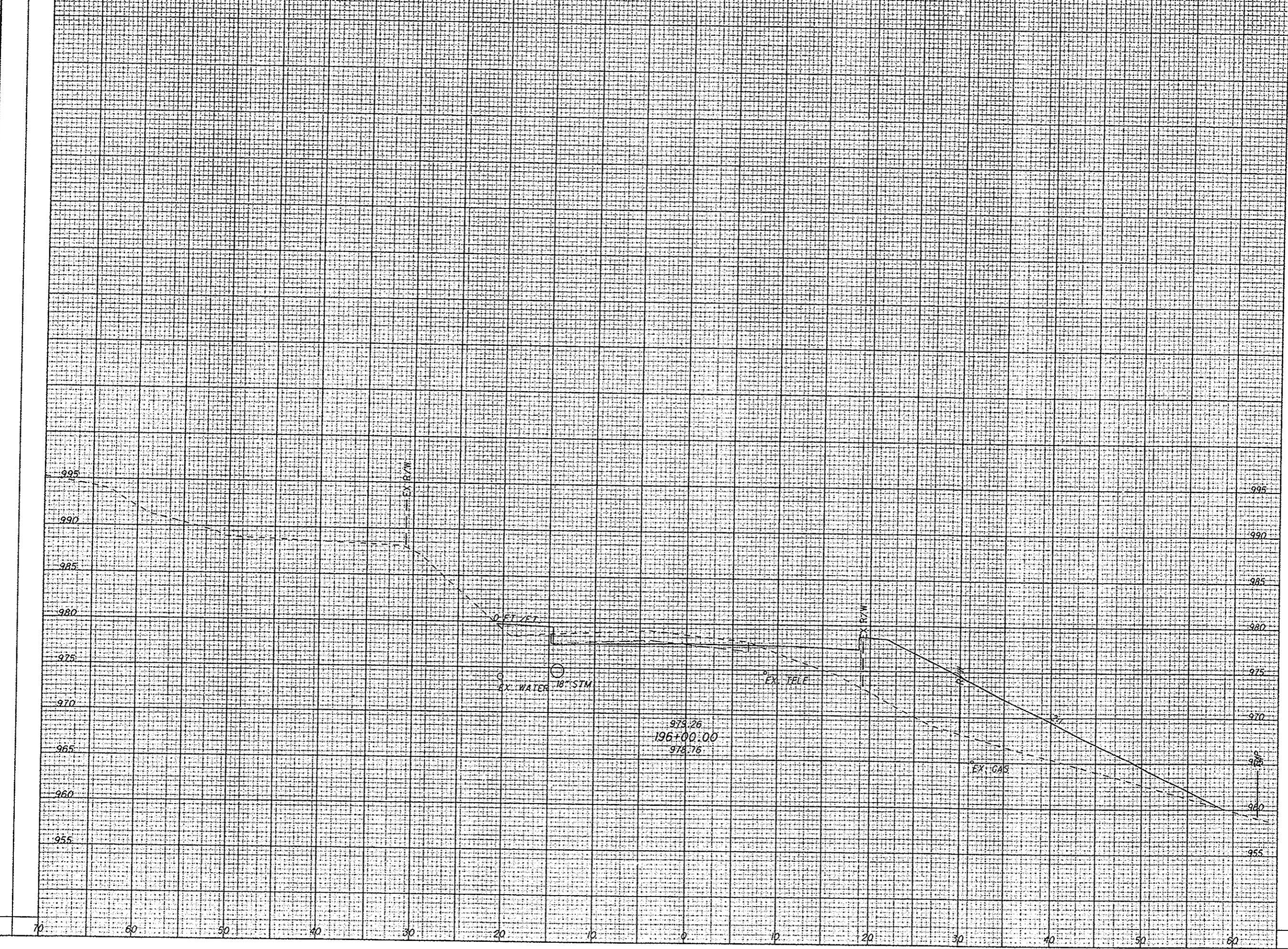
LIC-THORNWOOD

216
285

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:56AM jlove

SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED
MMB
CHECKED
JEL



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

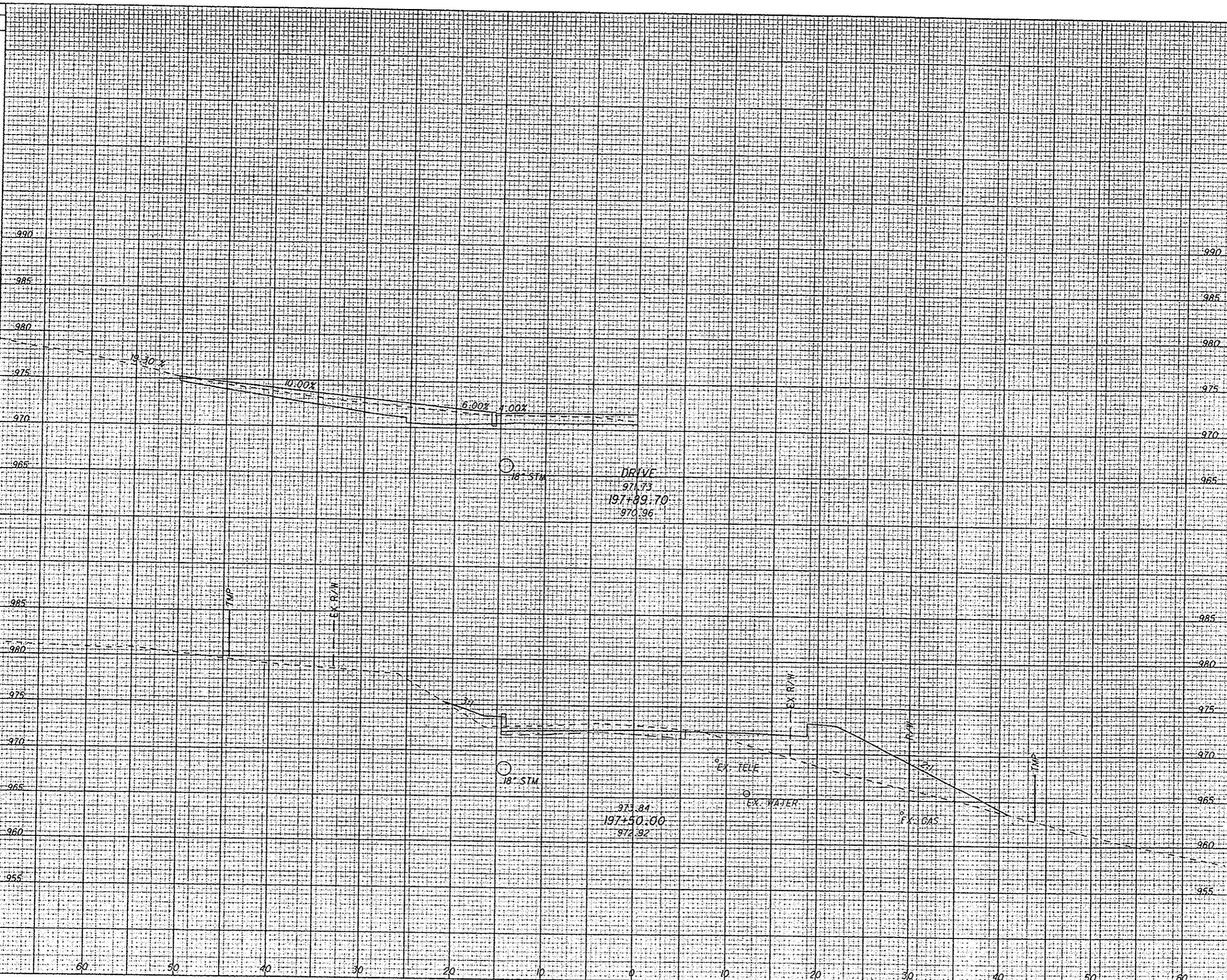
LIC-THORNWOOD

217
285

P:\PWP\dms08268\78116XS001.dgn 02-SEP-2009 9:56AM rlove

SEEDING
Exp. WIDTH. SQ. YDS.

| END AREA | | VOLUME | | CALCULATED | CHECKED |
|----------|------|--------|------|------------|---------|
| CUT | FILL | CUT | FILL | | |
| | | | | MMB | JEL |



DRIVE
971.73
197+89.70
970.96

973.84
197+50.00
972.92

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:56AM plove

SEEDING

END WIDTH SO. YDS.

END AREA VOLUME

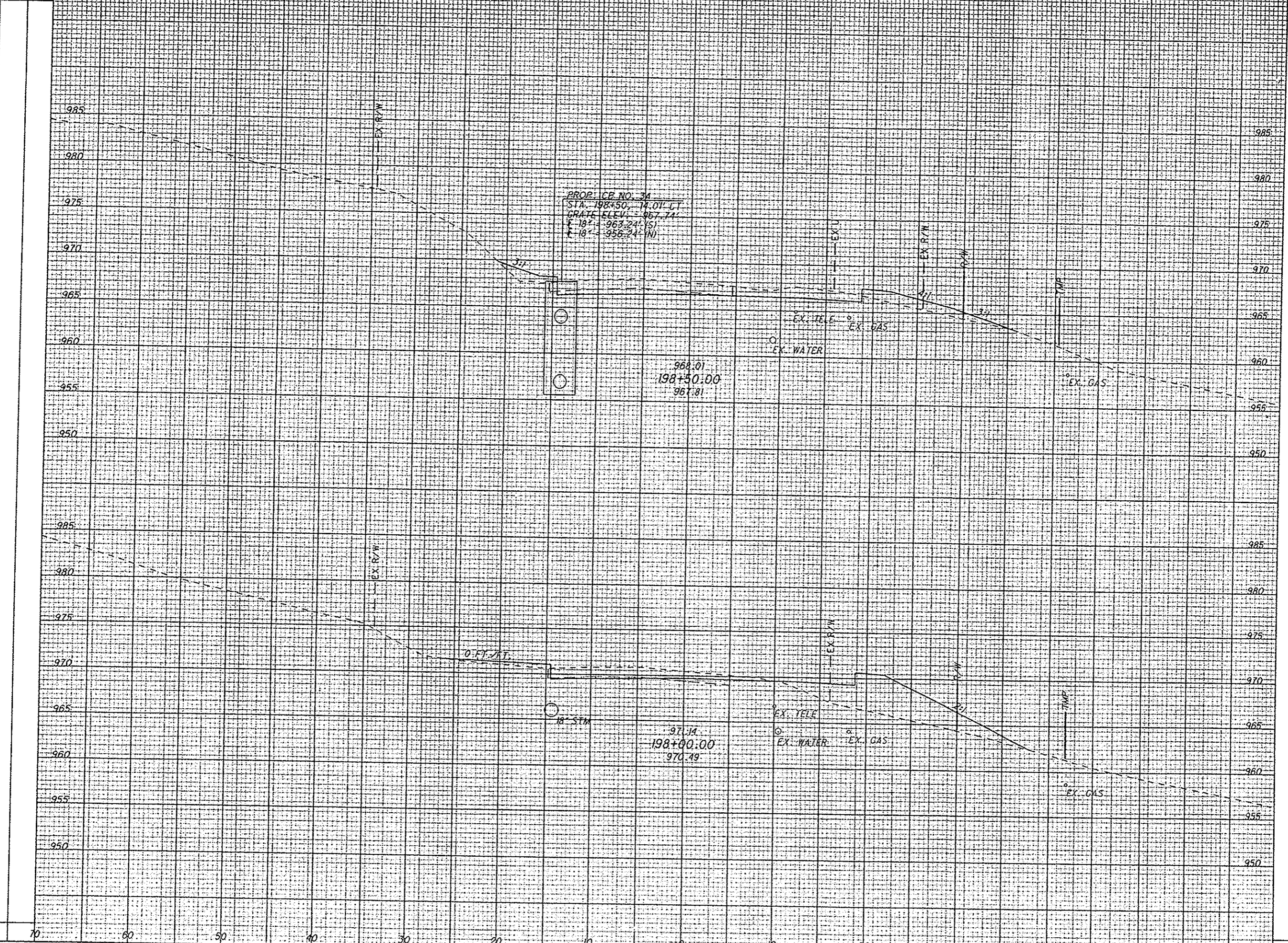
CUT FILL CUT FILL

CALCULATED
MINIB
CHECKED
JEL

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

LIC-THORNWOOD

220
285

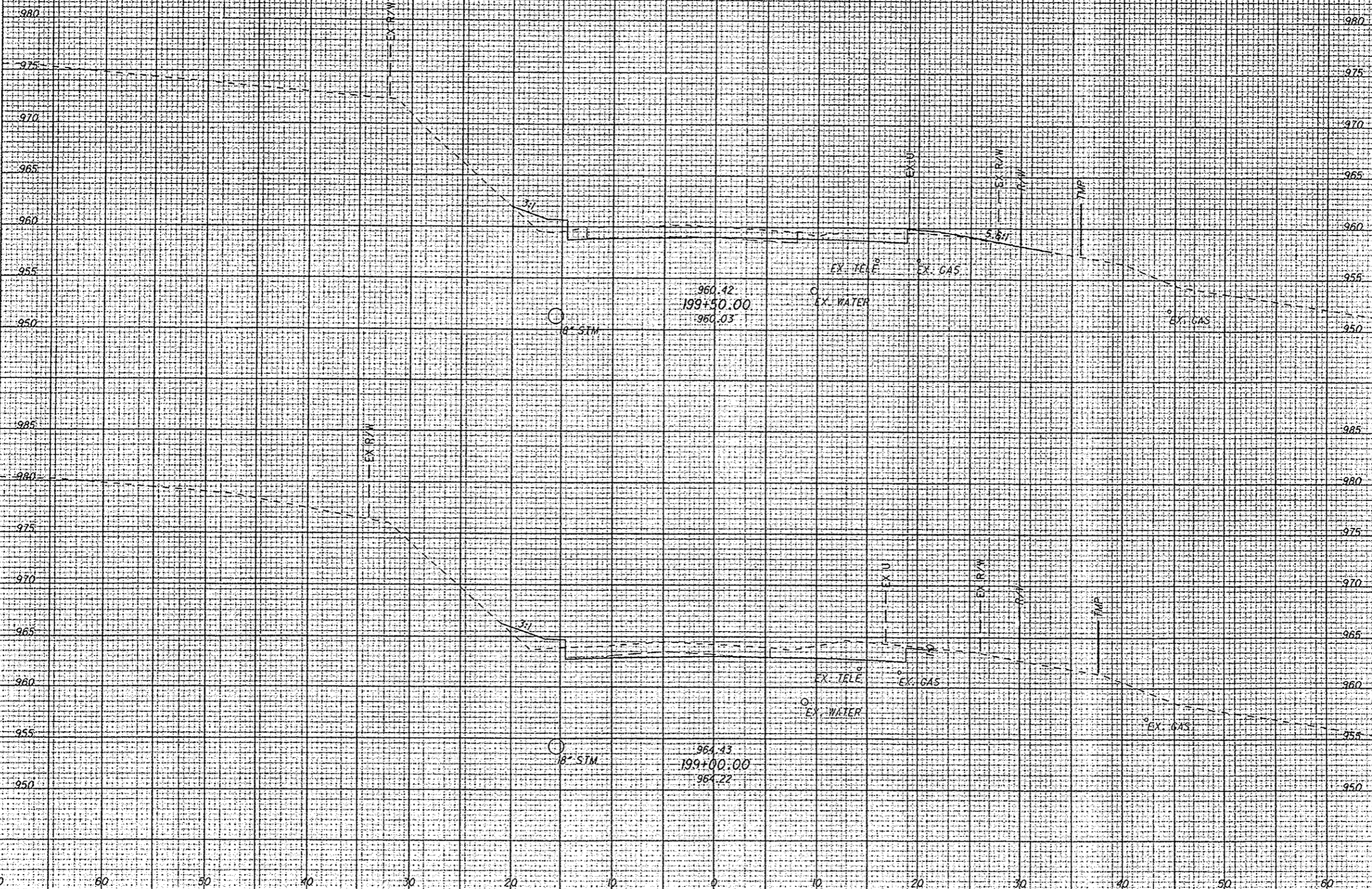


SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL

VOLUME
CUT FILL

CALCULATED
MMB
CREATED
JEL



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

LIC-THORNWOOD

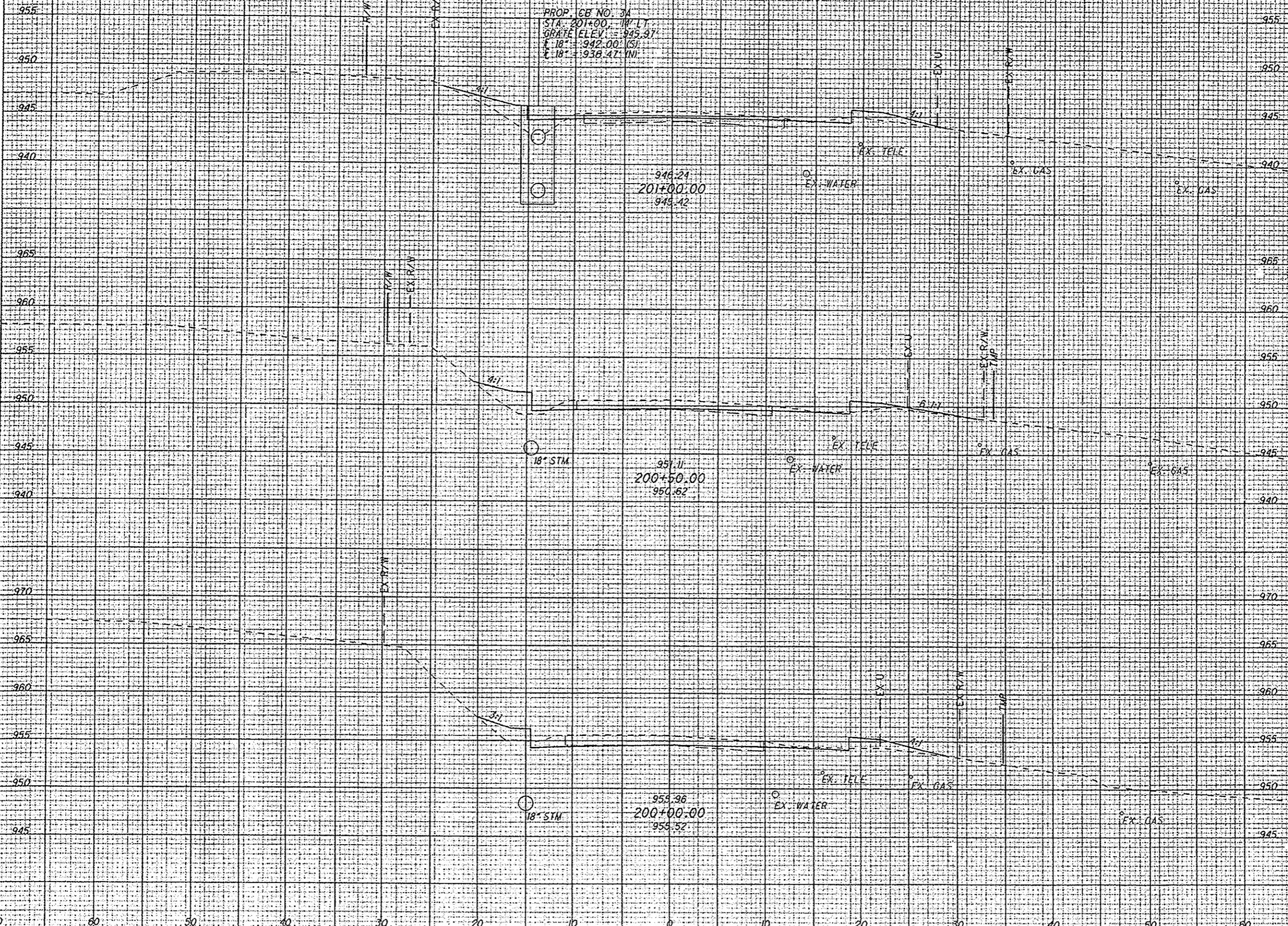
IP_PWP.dms08268\78116X500.dgn 02-SEP-2009 9:57AM jlove

SEEDING

END SO. WIDTH YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB
CHECKED
JEL



PROP. CB NO. 3A
 STA. 201+00.00 18" LT.
 GRATE ELEV. = 945.97'
 18" = 942.00' (S)
 18" = 936.47' (N)

946.21
 201+00.00
 945.42

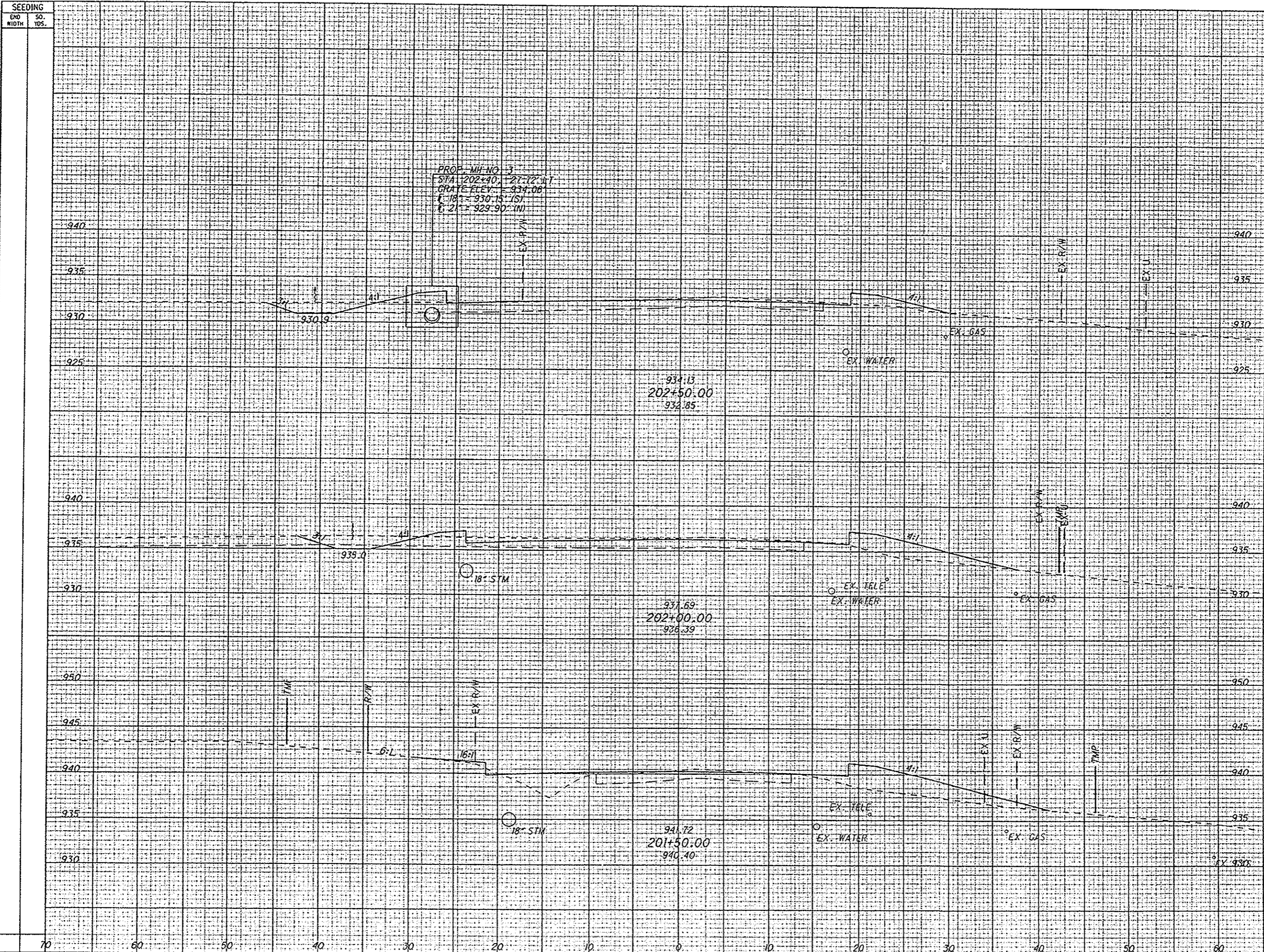
951.11
 200+50.00
 950.62

956.36
 200+00.00
 956.52

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

LIC-THORNWOOD

IP_PWP.dms08266\78116XS001.dgn 02-SEP-2009 9:57AM jlove

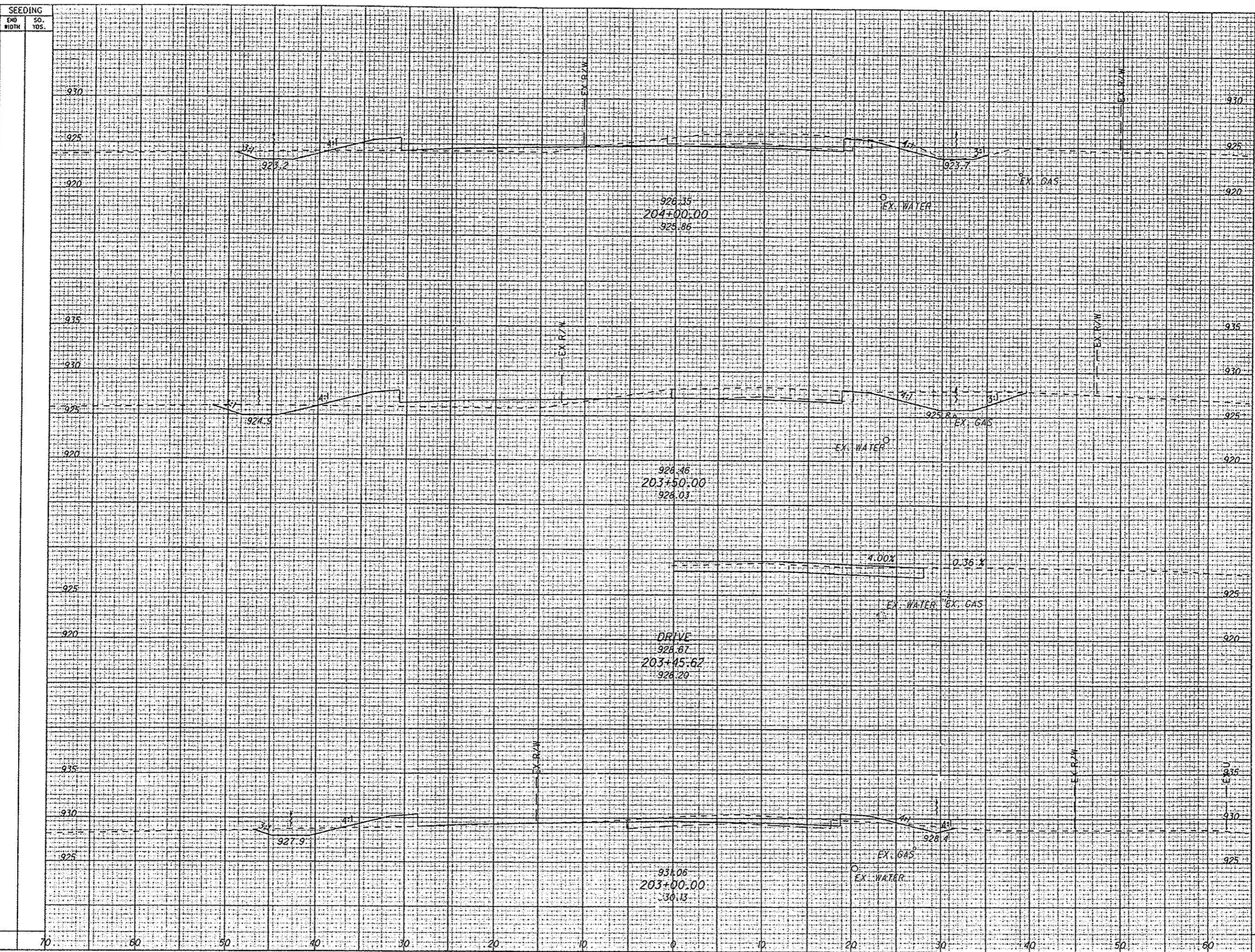


| SEEDING | | END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|---------|----|----------|------|--------|------|------------|-----|---------|-----|
| EQ | SO | CUT | FILL | CUT | FILL | | | | |
| | | | | | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116\S001.dgn 02-SEP-2009 9:57AM jrl'love



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

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS001.dgn 02-SEP-2009 9:57AM jrlvve

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MMB
CHECKED
JEL

PROP. FB NO. 2.3
STA. 29+50.00 - 50+50.00
GRATE ELEV. 918.00
E 21' = 915.50 (NE)

EX. R/W

922.90
205+50.00
919.79

EX. R/W

923.57
205+00.00
921.93

EX. R/W

924.72
204+50.00
923.92

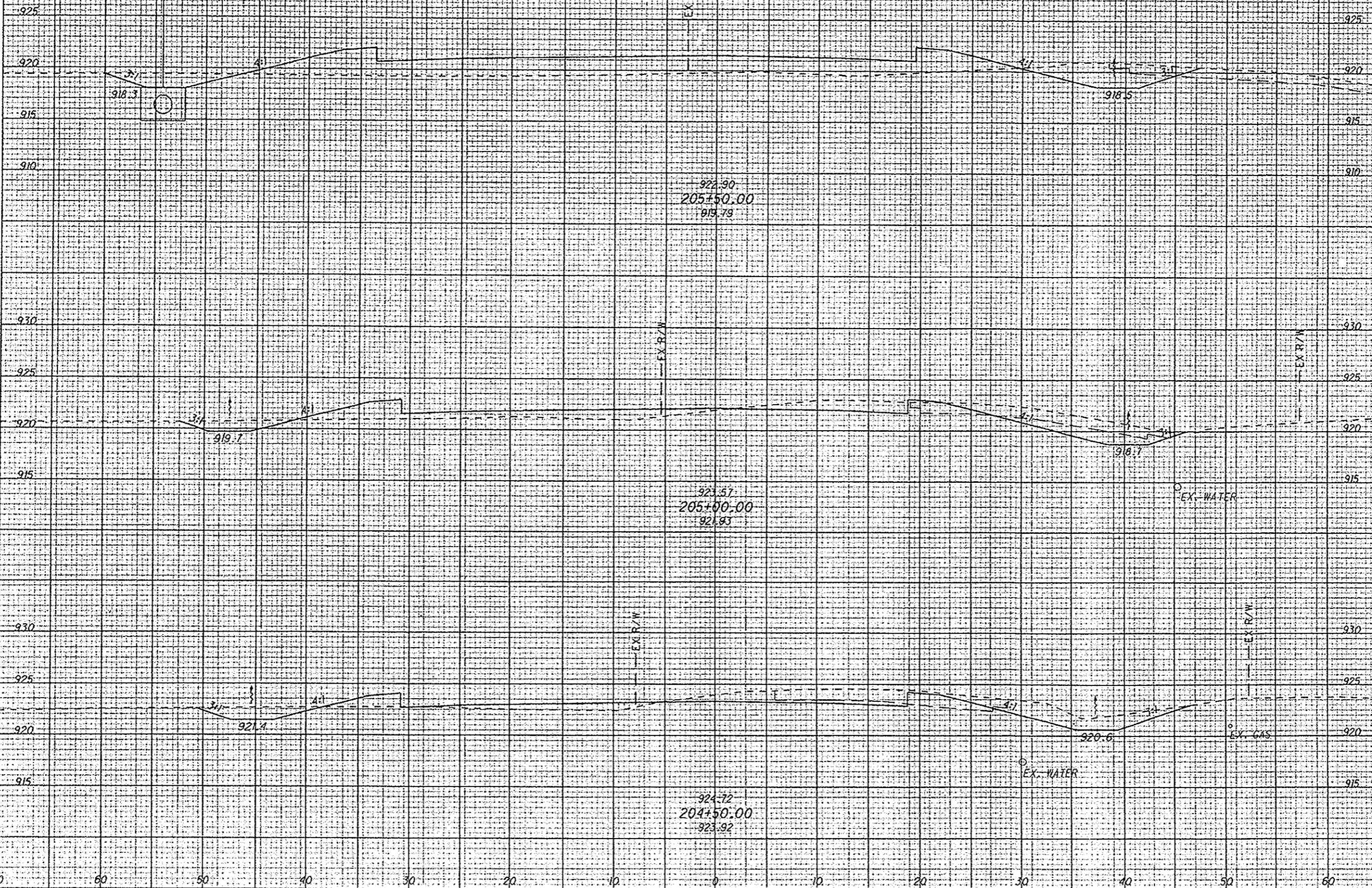
EX. R/W

EX. WATER

EX. R/W

EX. GAS

EX. WATER



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

LIC-THORNWOOD

225
285

IP_PWP_dms08268\78116\5001.dgn 02-SEP-2009 9:58AM jlove

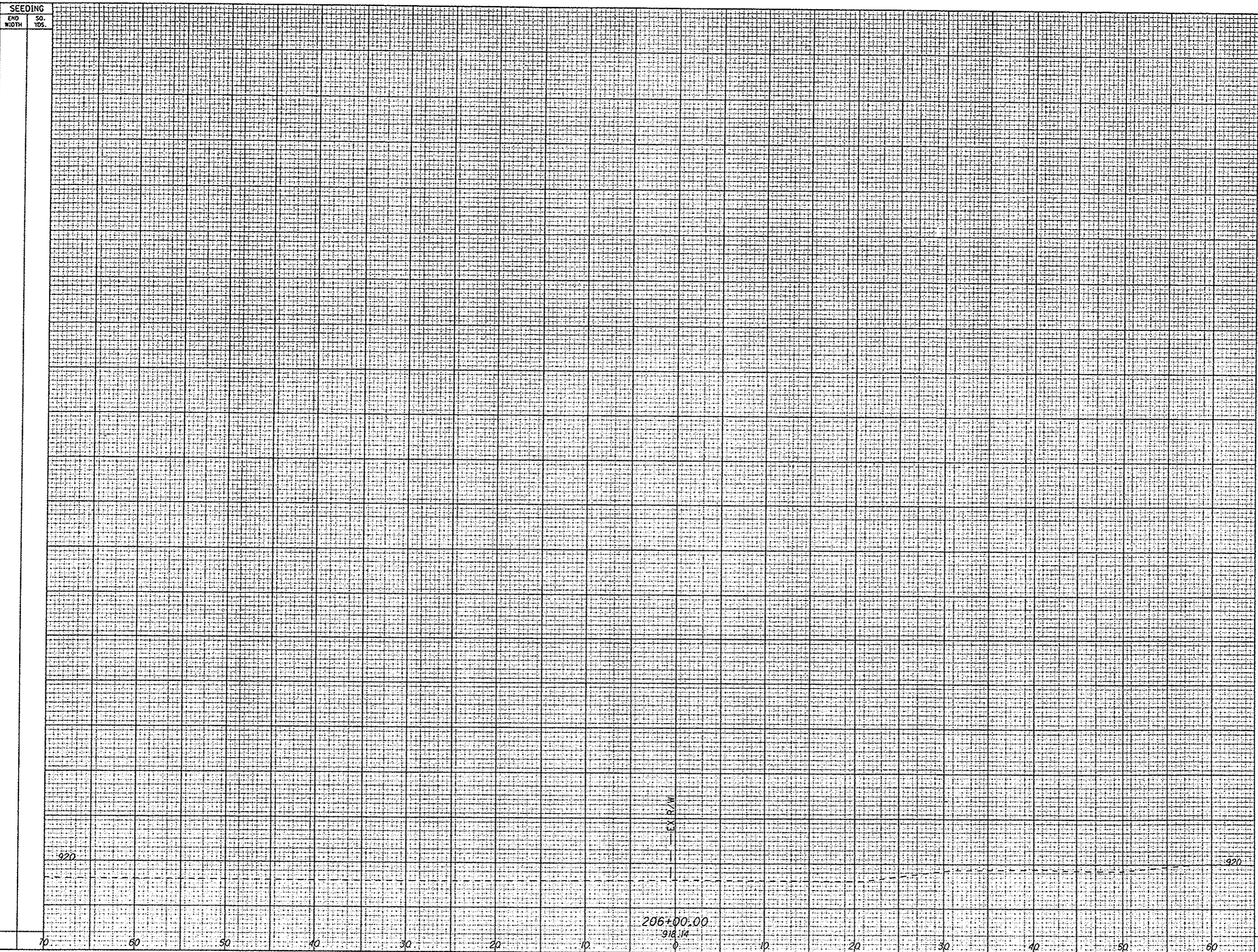
SEEDING

END SO.
WIDTH YDS.

END AREA
CUT FILL

VOLUME
CUT FILL

CALCULATED
MMB
CHECKED
JEL



CROSS SECTIONS - THORNWOOD
STA. 206+00.00 TO STA. 206+00.00

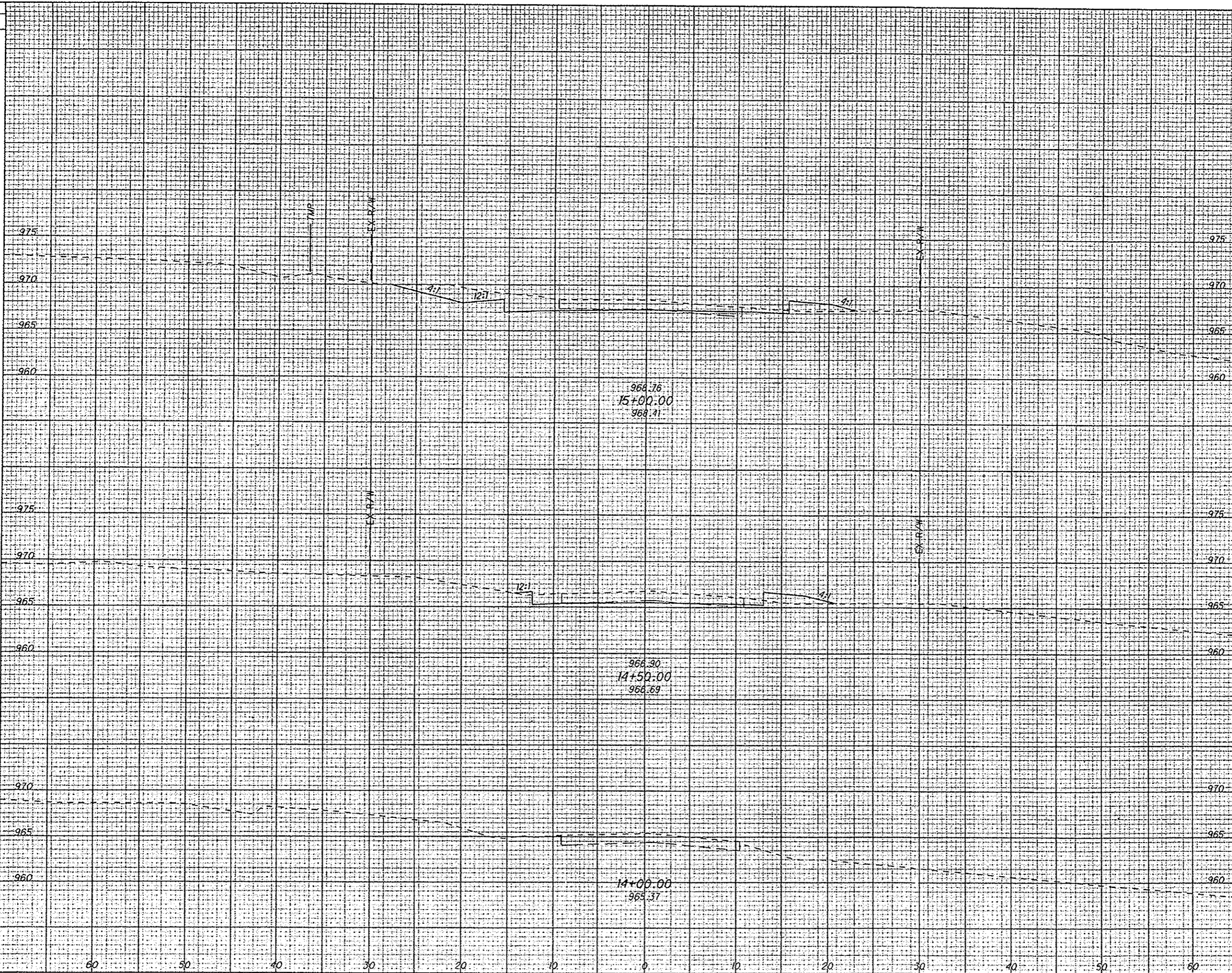
LIC-THORNWOOD

226
285

IP_PWP:dms08268\78116XS004.DGN 02-SEP-2009 9:58AM jlove

SEEDING

END SO. WIDTH YDS.



| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

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

LIC-THORNWOOD

227
285

IP_PWP.dms08268_78116XS004.DGN 02-SEP-2009 9:58AM jlove

SEEDING
END WIDTH SO. YDS.

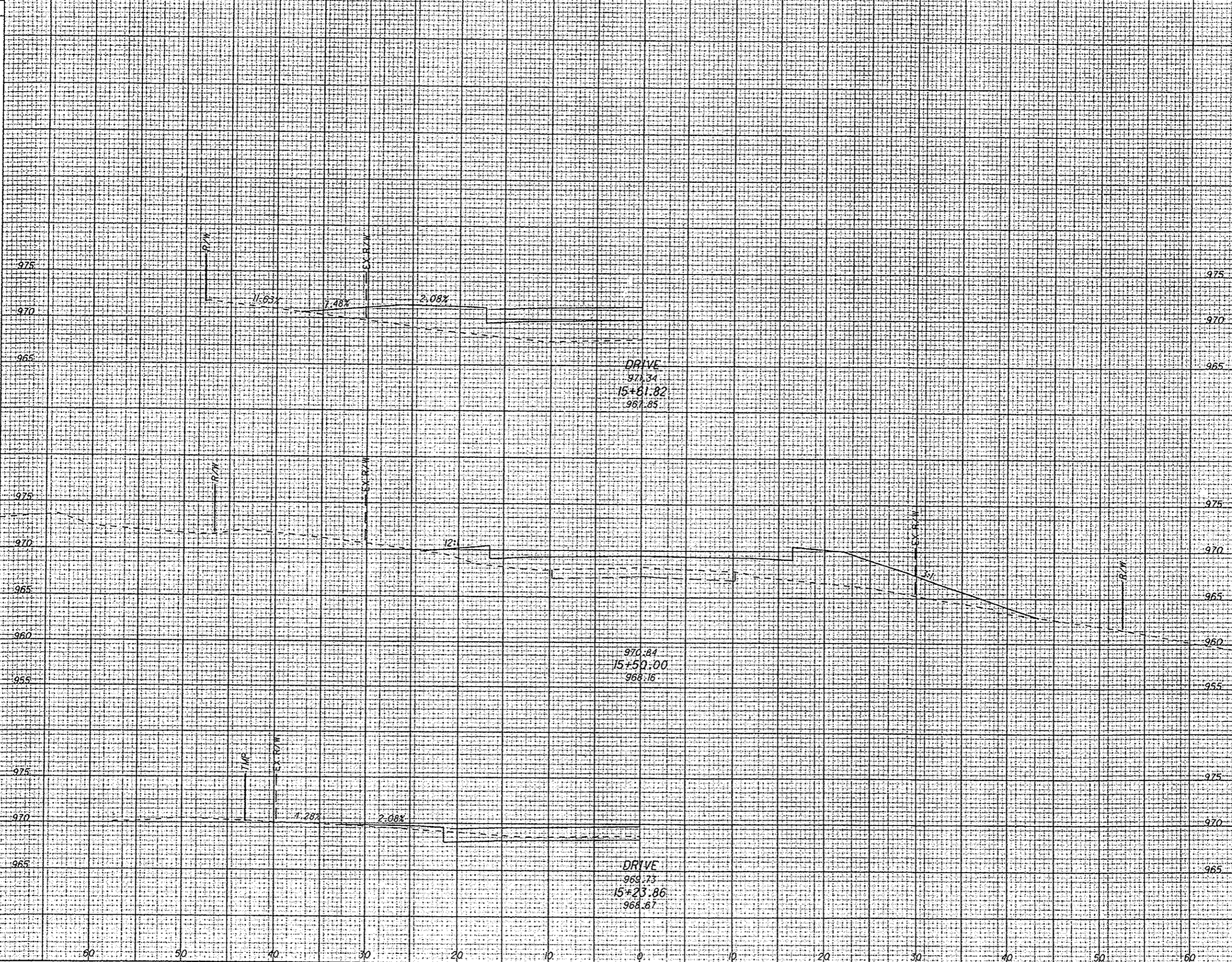
END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MINUS
CHECKED
JEL

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

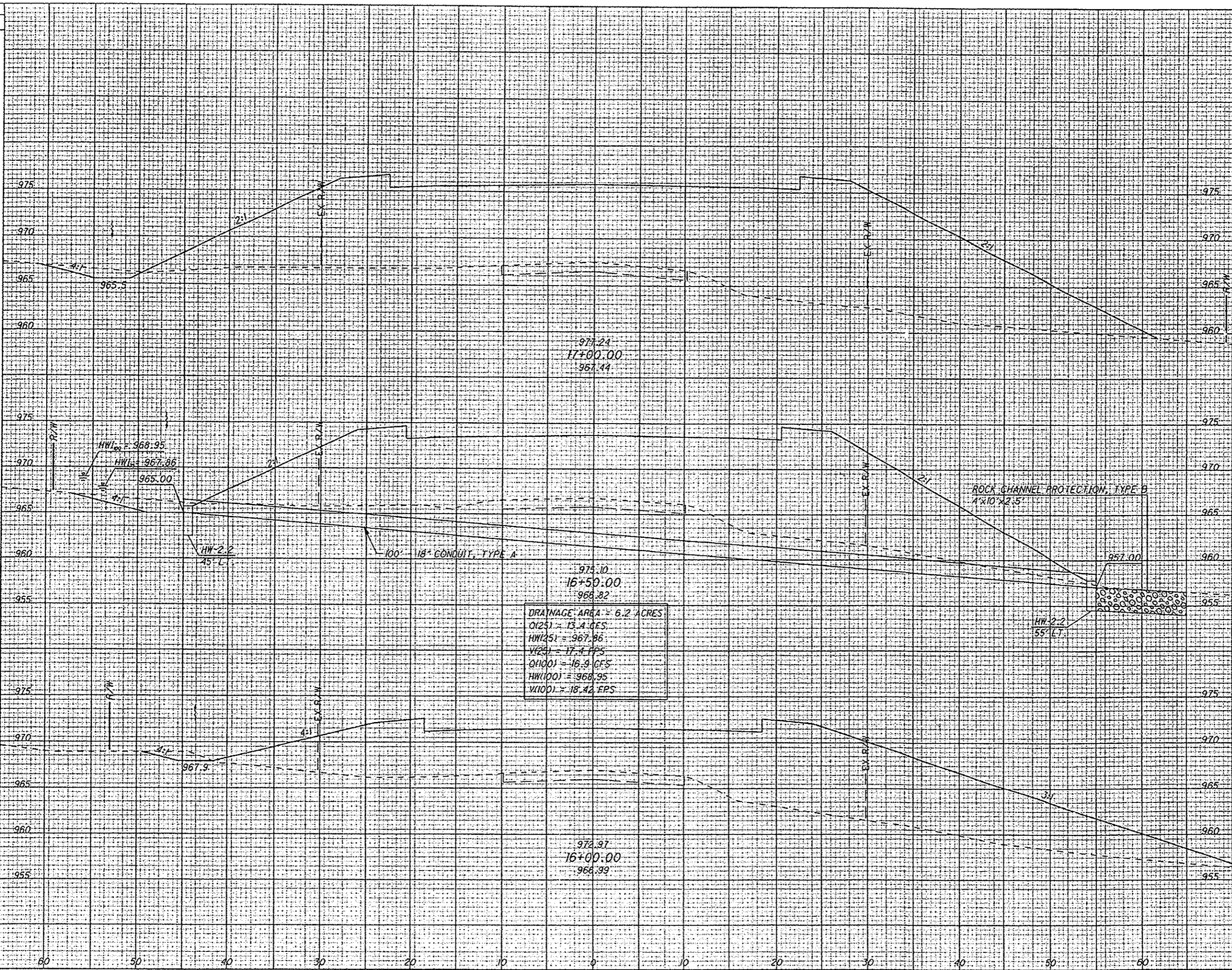
LIC-THORNWOOD

228
285



IP_PWP.dms08268\78116XS004.DGN 02-SEP-2009 9:58AM flove

SEEDING
END WIDTH SO. YDS.



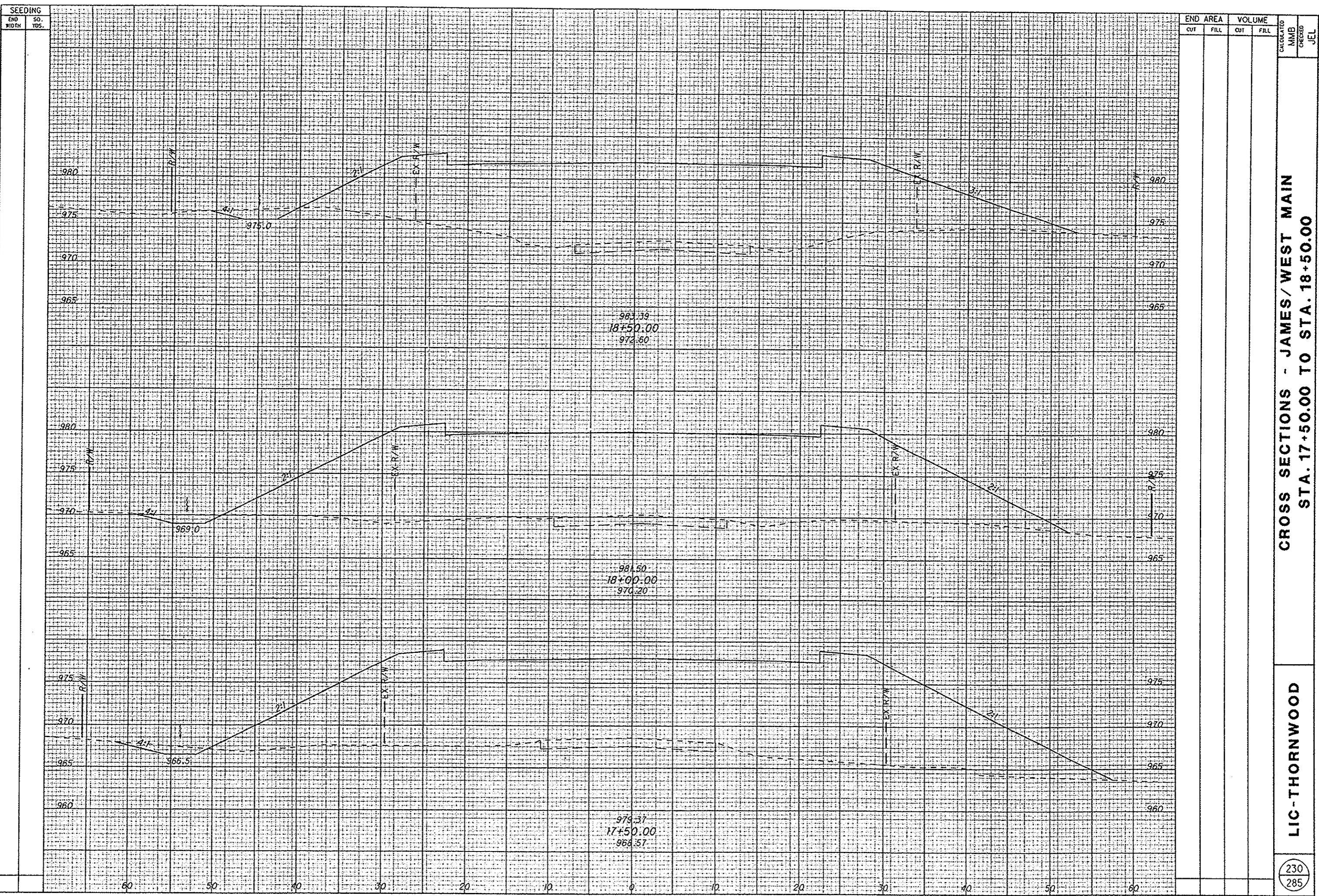
DRAINAGE AREA = 6.2 ACRES
 Q(25) = 13.4 CFS
 HW(25) = 967.86
 V(25) = 17.4 FPS
 Q(100) = 46.9 CFS
 HW(100) = 968.95
 V(100) = 18.42 FPS

| END AREA | | VOLUME | | CALCULATED | MMB CHECKED | JEL |
|----------|------|--------|------|------------|-------------|-----|
| CUT | FILL | CUT | FILL | | | |
| | | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08288\78116XS004.DGN 02-SEP-2009 9:58AM jrove



| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |
| | |

| END AREA | | VOLUME | | CALCULATED | MMB | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

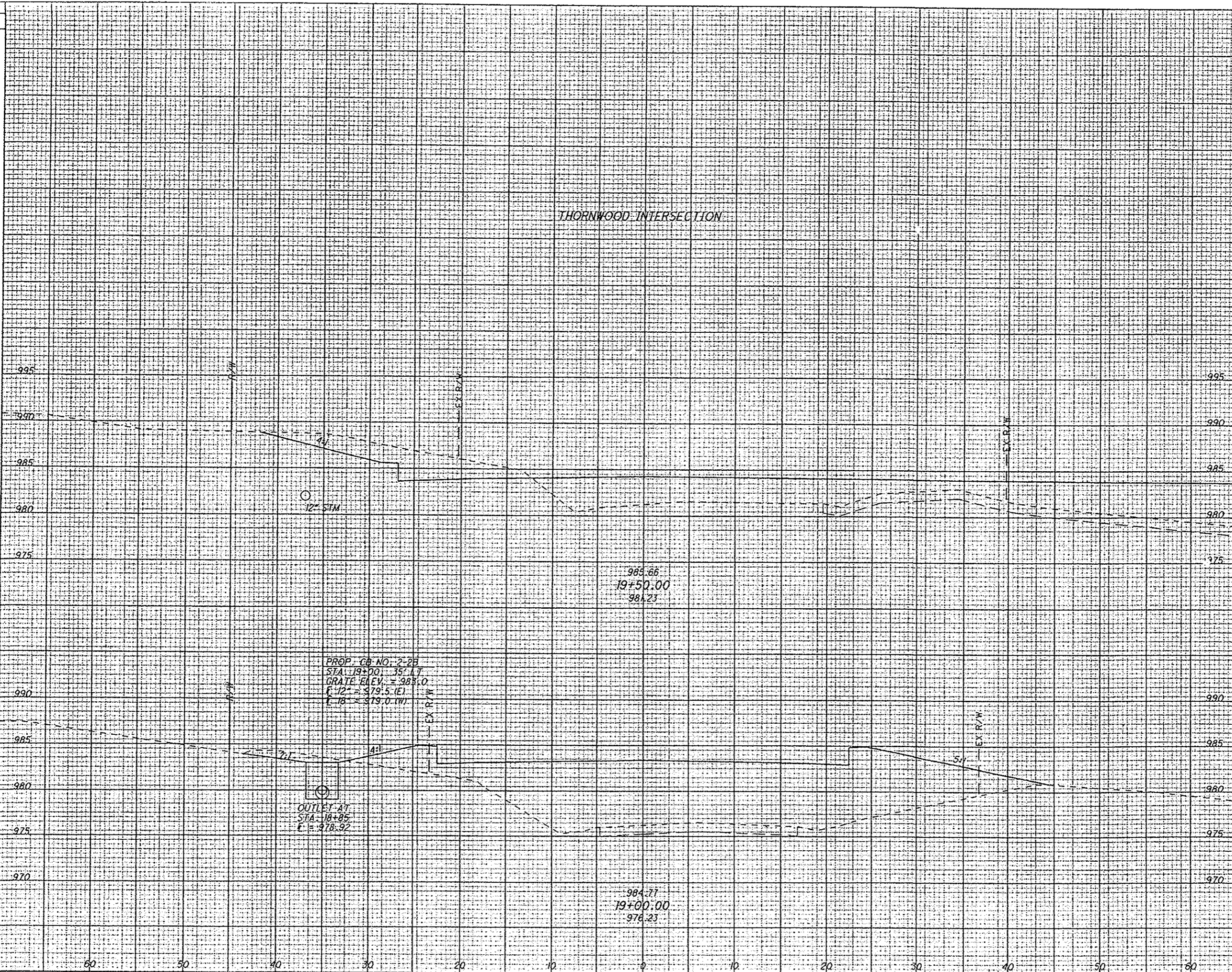
CROSS SECTIONS - JAMES / WEST MAIN
 STA. 17+50.00 TO STA. 18+50.00

LIC-THORNWOOD

230
285

IP_PWP.dms08268_78116X5004.DGN 02-SEP-2009 9:58AM jlove

SEEDING
END SO.
WIDTH YOS.



THORNWOOD INTERSECTION

PROP. CB NO. 2-28
 STA. 19+00: 35' LT
 GRATE ELEV. = 988.0
 E 12" = 979.5 (E)
 E 18" = 979.0 (W)

OUTLET AT
 STA. 18+85
 E = 978.92

985.66
 19+50:00
 984.23

984.77
 19+00:00
 976.23

| END AREA | | VOLUME | | CALCULATED MMB | CHECKED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |

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

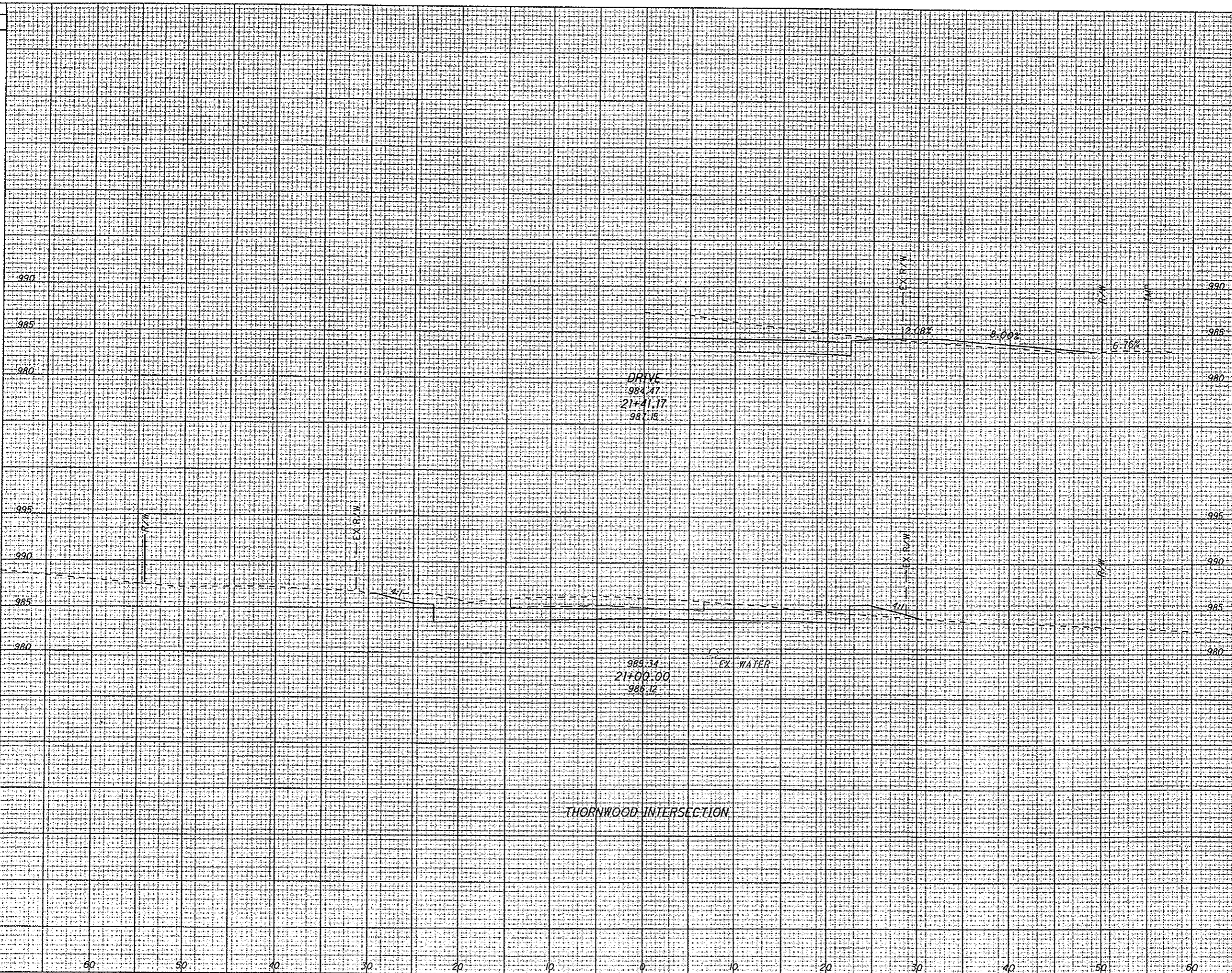
LIC-THORNWOOD

231
285

IP_PWP:dms08268\78116XS004.DGN 02-SEP-2009 9:59AM jrove

SEEDING

END SQ. YDS.
NOTH



END AREA VOLUME

CUT FILL CUT FILL

CALCULATED
MMB
CREC'D
JEL

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

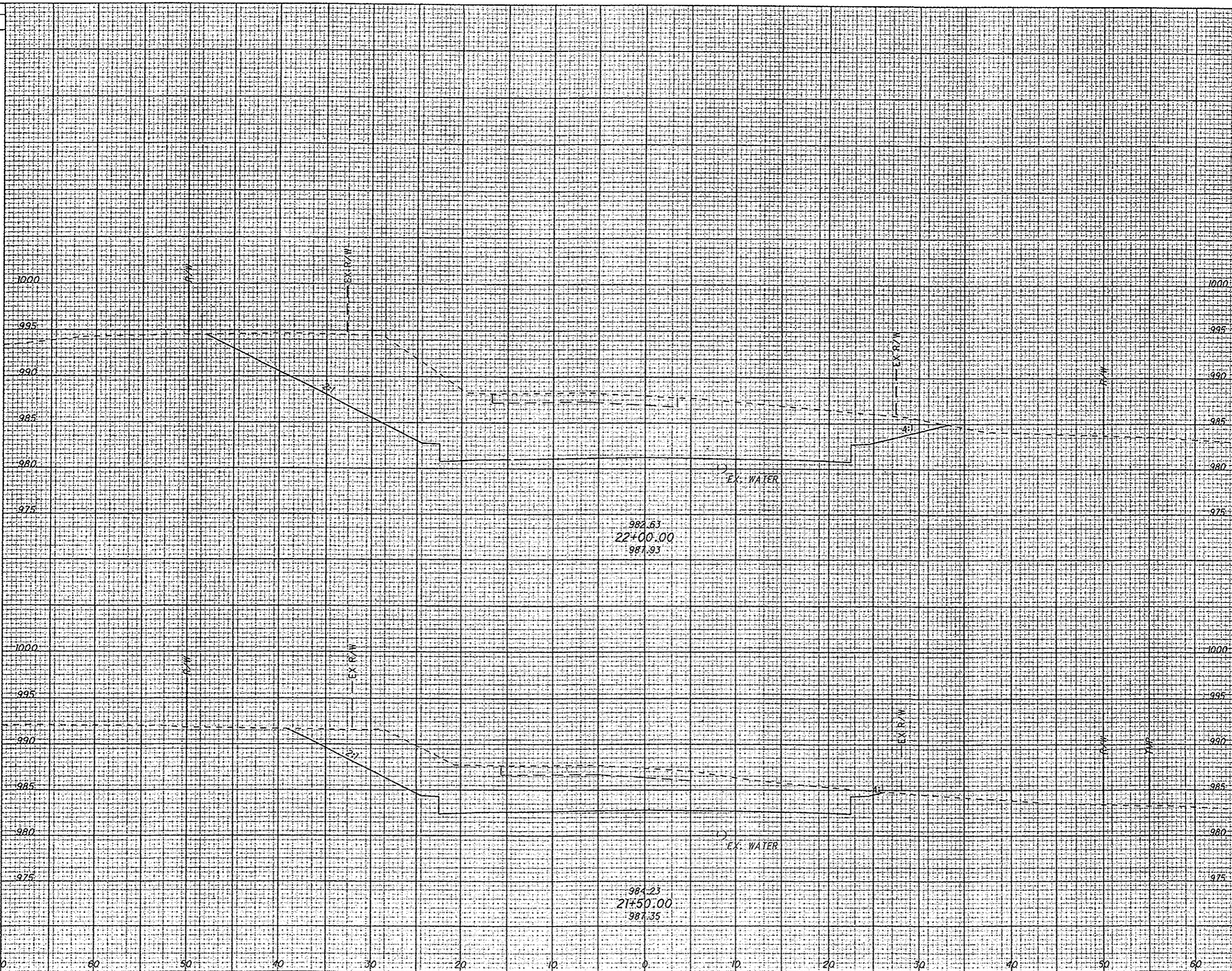
LIC-THORNWOOD

232
285

P:\PWP-dms08268\78116XS004.DGN 02-SEP-2009 9:59AM jlove

SEEDING

END SO.
WIDTH YDS.



END AREA
CUT FILL

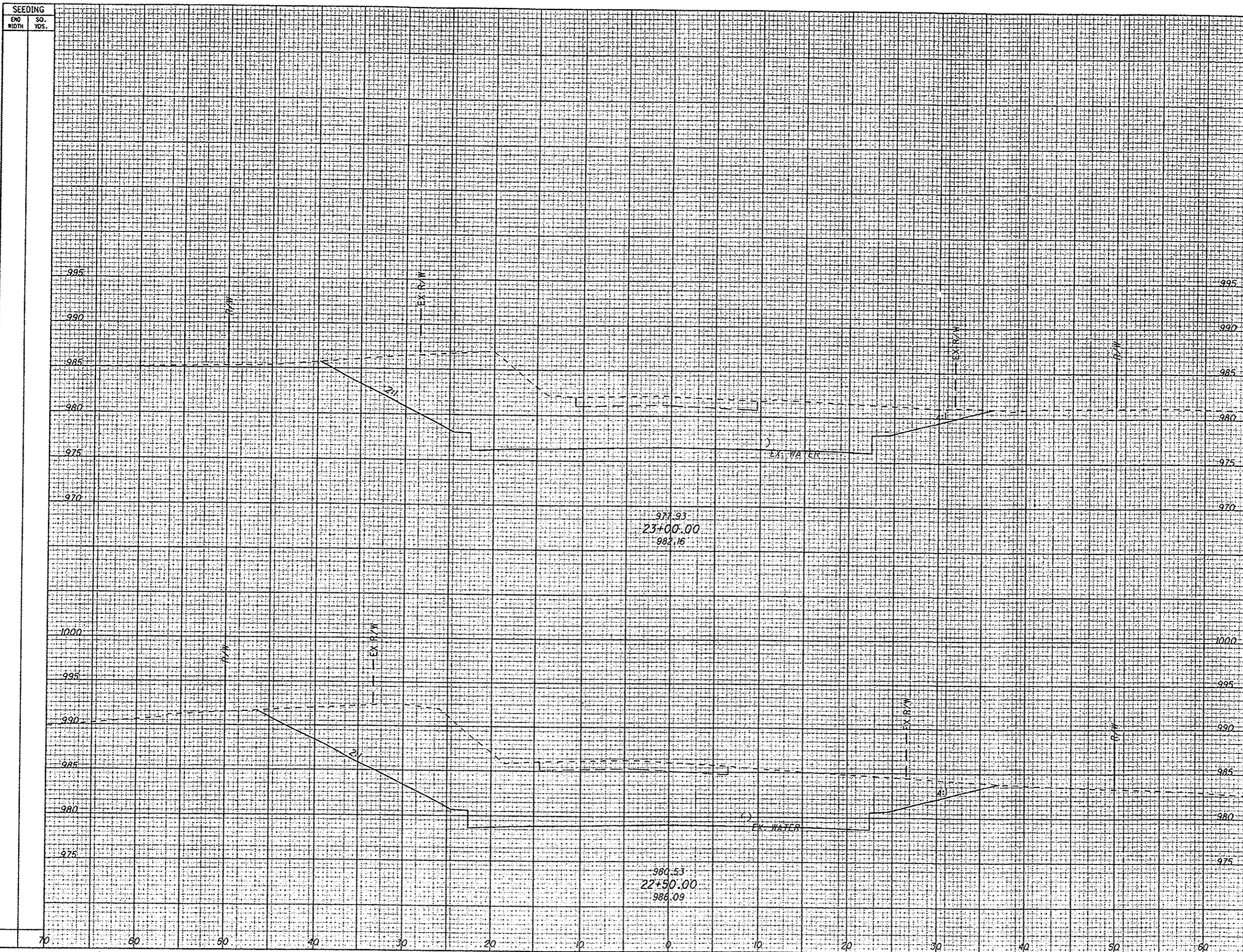
VOLUME
CUT FILL

CALCULATED
MMB
CHECKED
JEL

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

LIC-THORNWOOD

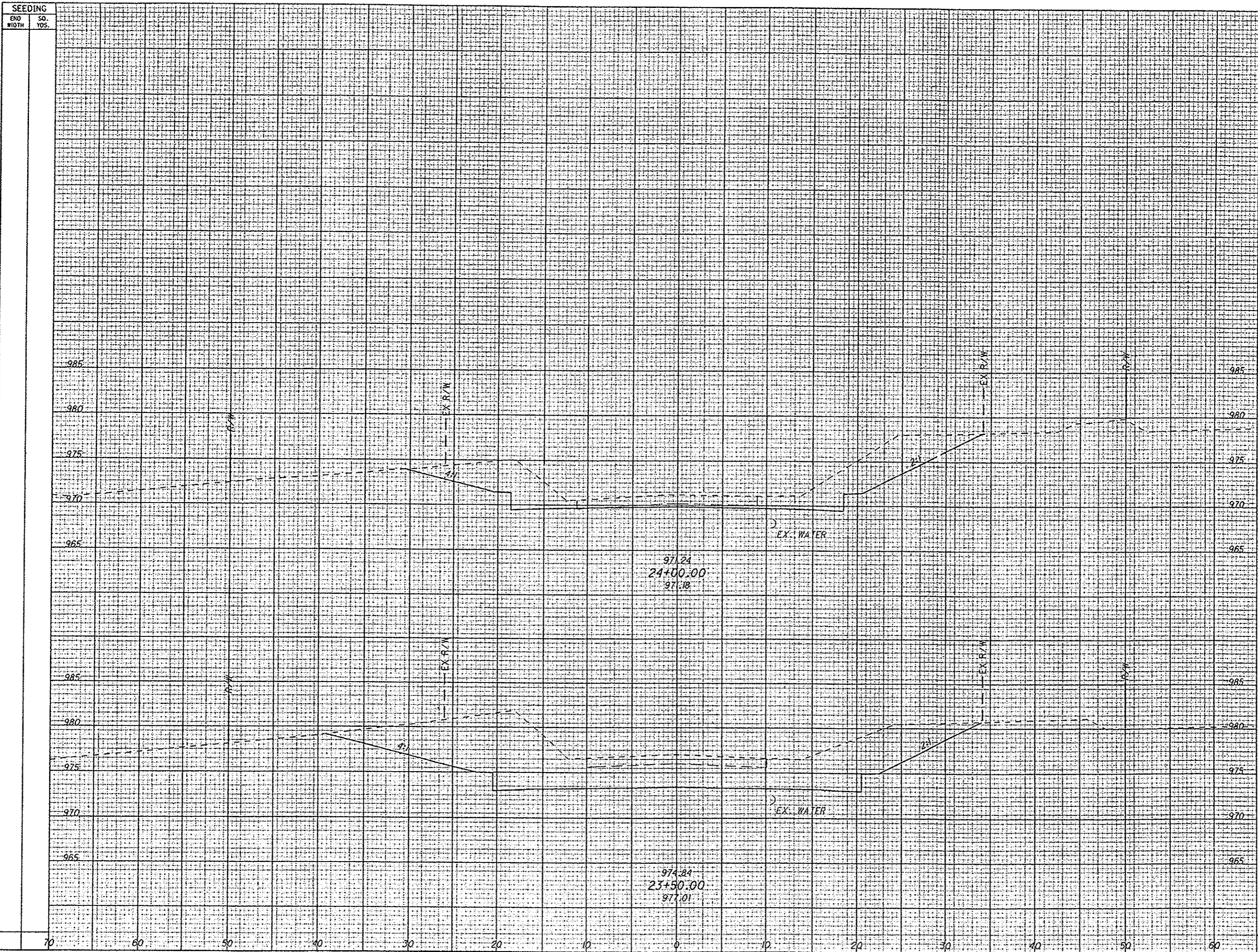
233
285



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

LIC-THORNWOOD

IP_PWP.dms08288\78116X5004.DGN 02-SEP-2009 9:59AM jrove



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

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

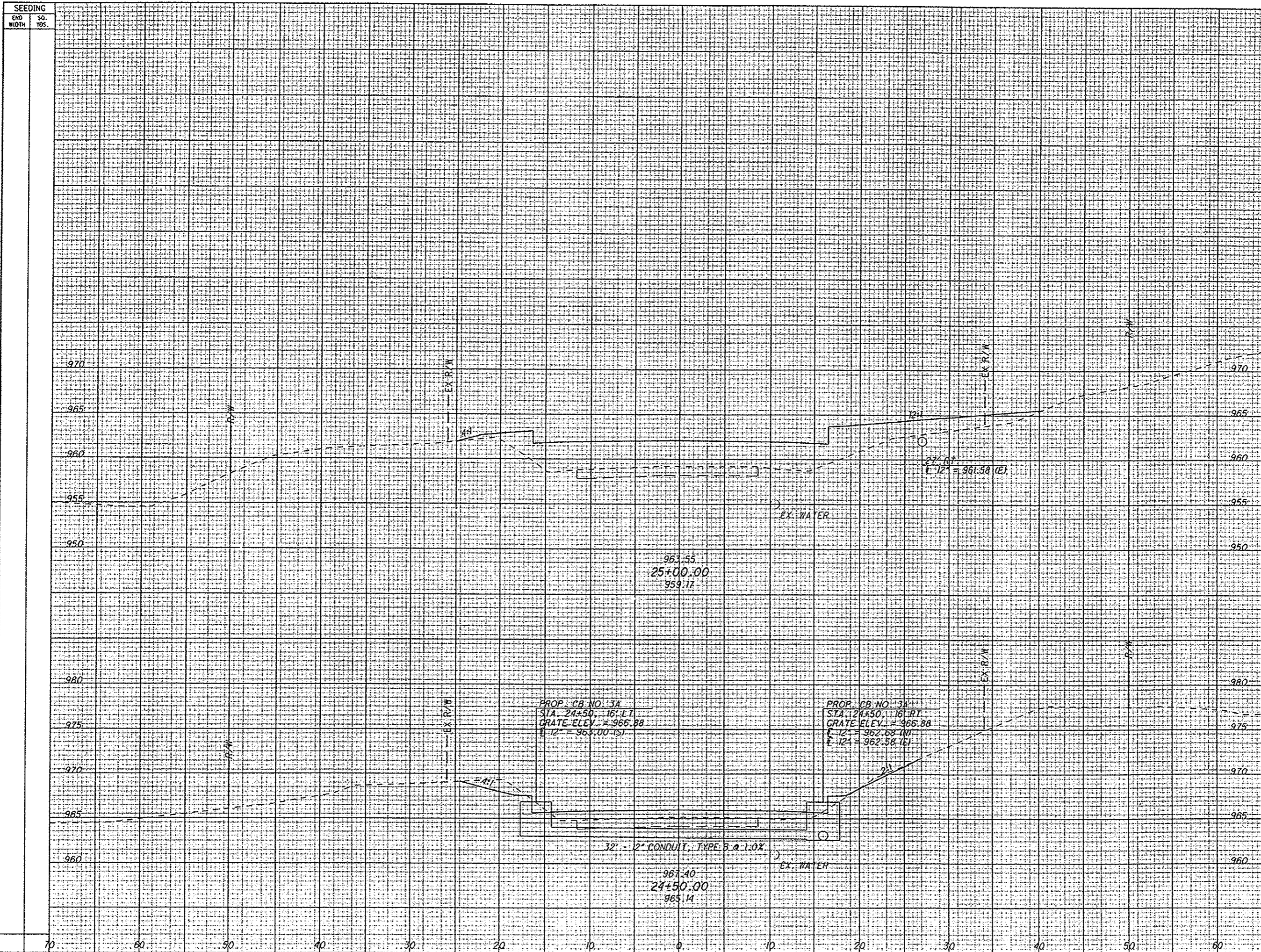
LIC-THORNWOOD

235
285

IP_PWP.dms08268\78116\X004.DGN 02-SEP-2009 9:59AM jlove

SEEDING
END WIDTH SO. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED MMB CHECKED JEL



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

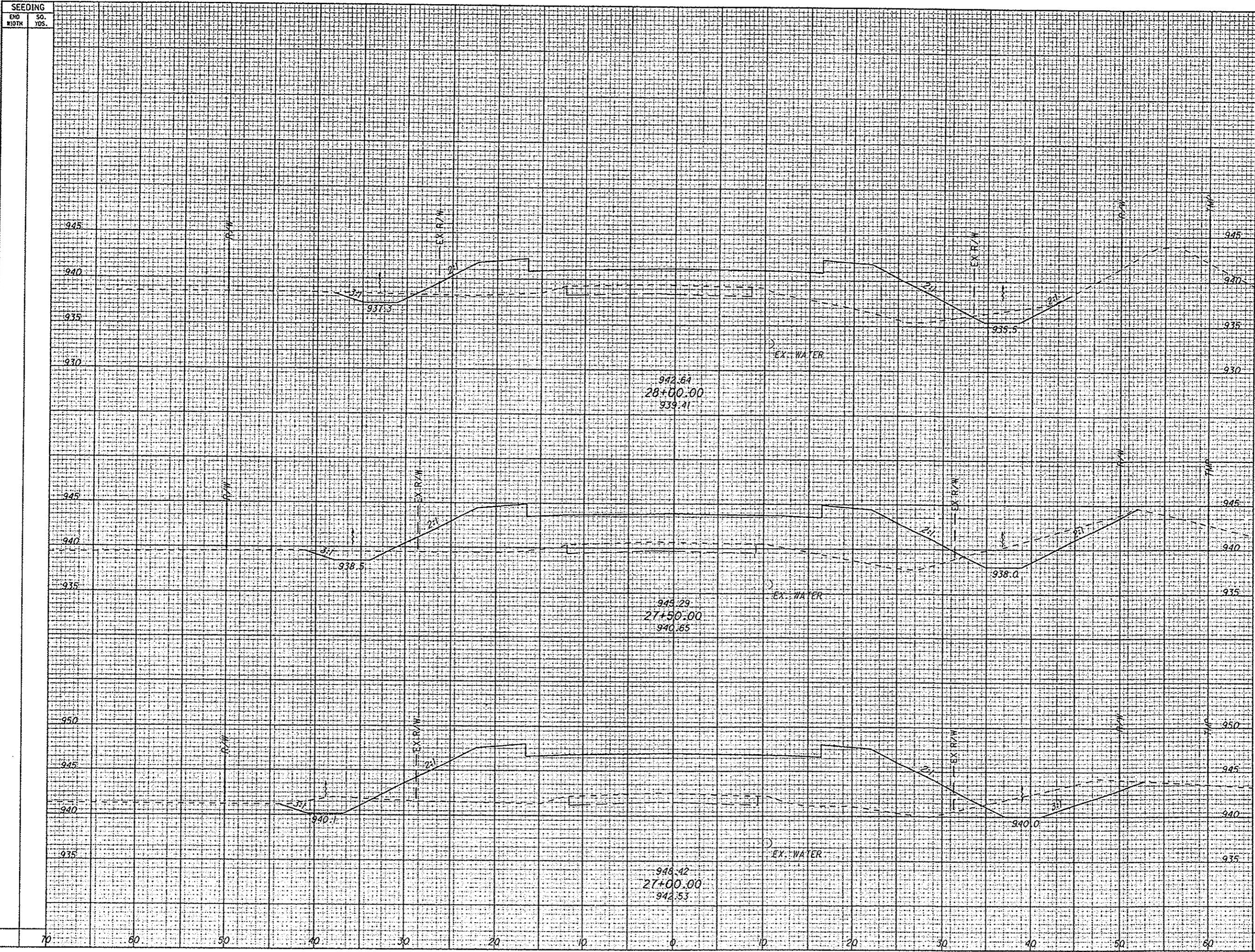
LIC-THORNWOOD

236
285

IP_PWP.dms08268\78116XS004.DGN 02-SEP-2009 10:00AM jlove

| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |
| | |

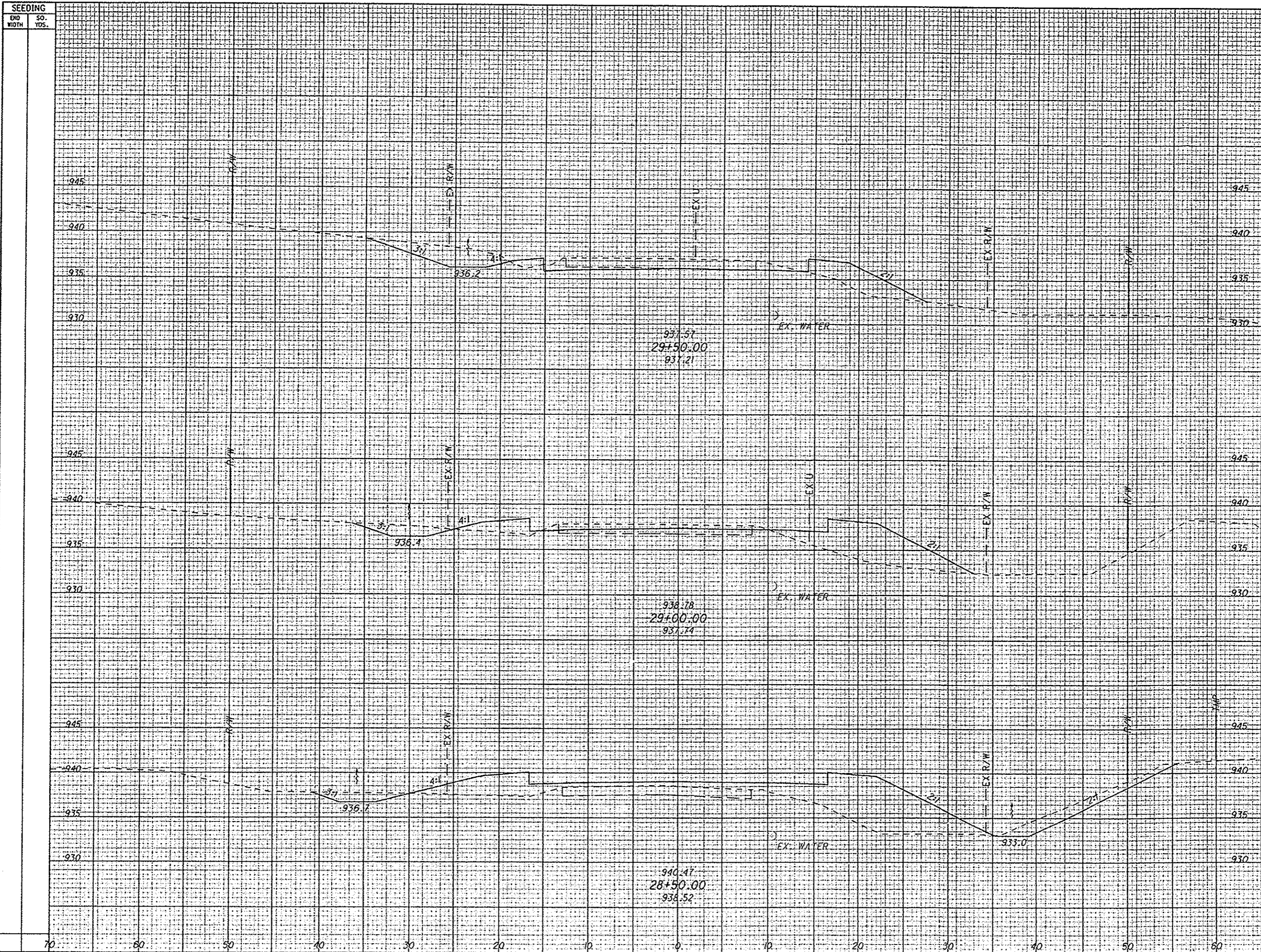
| END AREA | | VOLUME | | CALCULATED | MMB CHECKED | JEL |
|----------|------|--------|------|------------|-------------|-----|
| CUT | FILL | CUT | FILL | | | |
| | | | | | | |



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

LIC-THORNWOOD

P:\PWP.dms08288\78116XS004.DGN 02-SEP-2009 10:00AM /love

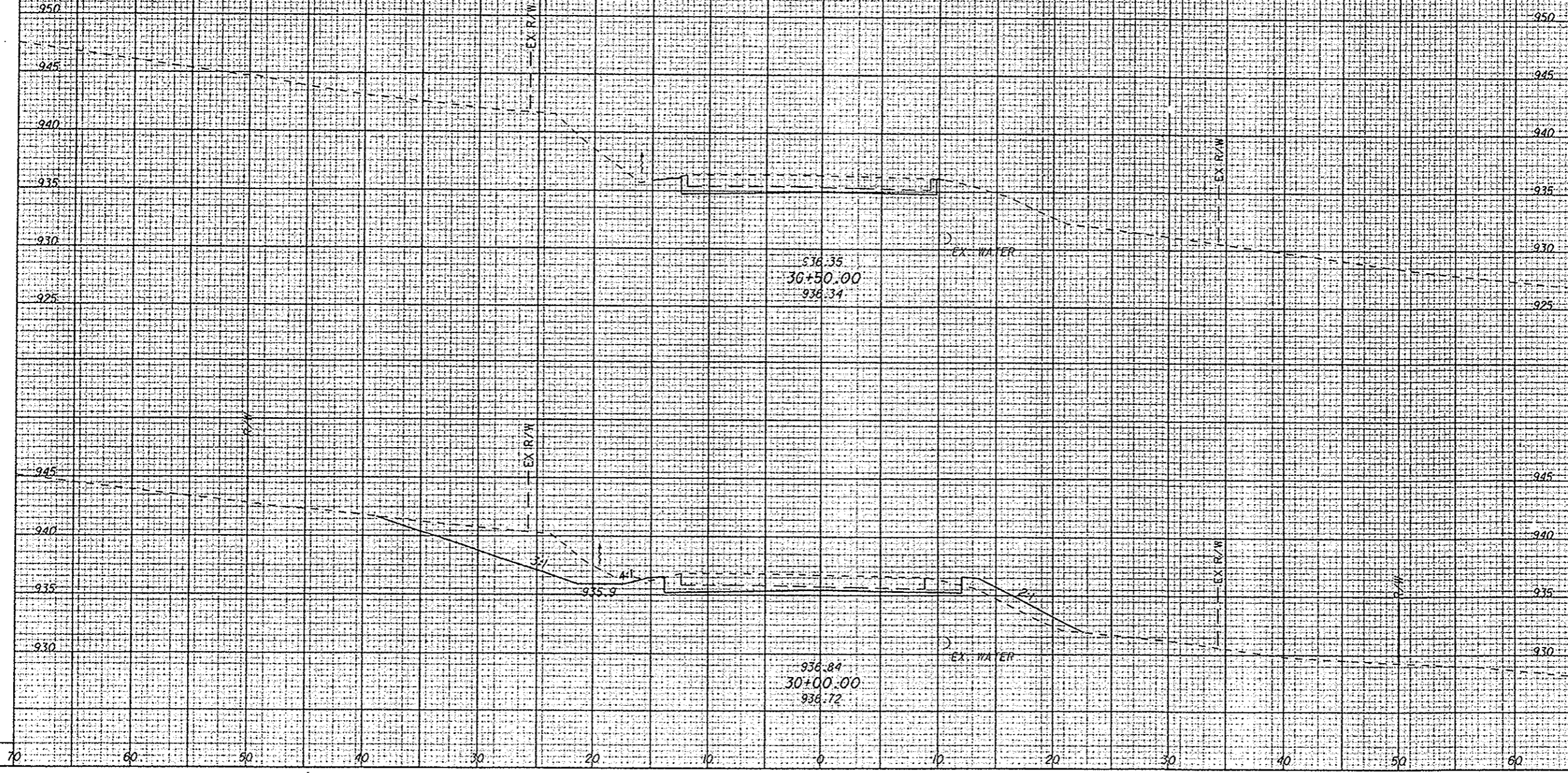


| SEEDING | | END AREA | | VOLUME | |
|-----------|----------|----------|------|--------|------|
| EXO WIDTH | SO. YDS. | OUT | FILL | OUT | FILL |
| | | | | | |

CALCULATED MMB CHECKED JEL
CROSS SECTIONS - JAMES/WEST MAIN
STA. 28+50.00 TO STA. 29+50.00
 239
 285

SEEDING
END SO.
WIDTH NOS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
MINIB
CHECKED
RAT



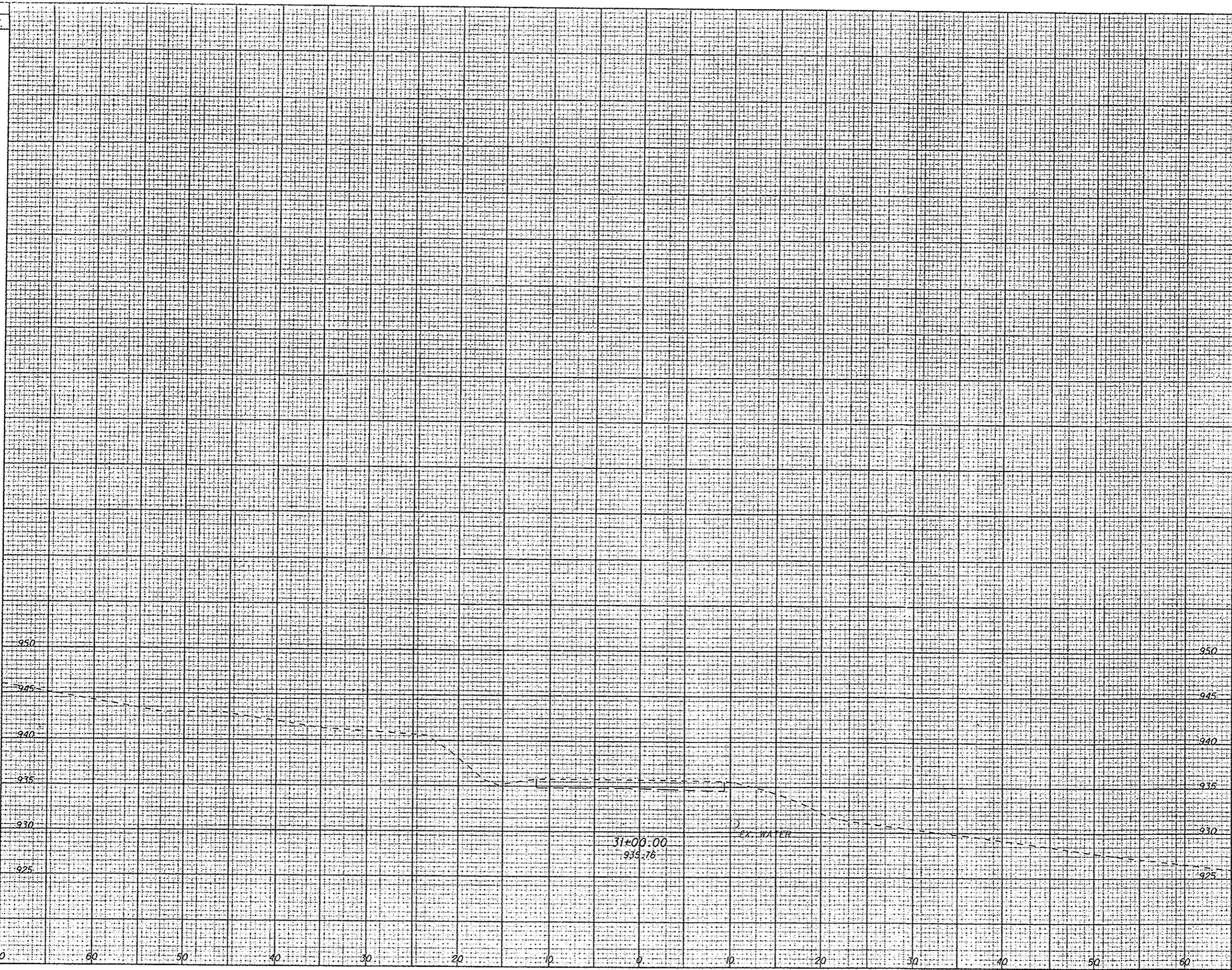
CROSS SECTIONS - JAMES / WEST MAIN
STA. 30+00.00 TO STA. 30+50.00

LIC-THORNWOOD

IP_PWP.dms08268\78116XSC04.DGN 02-SEP-2009 10:00AM jlove

SEEDING

END SO.
WIDTH POS.



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

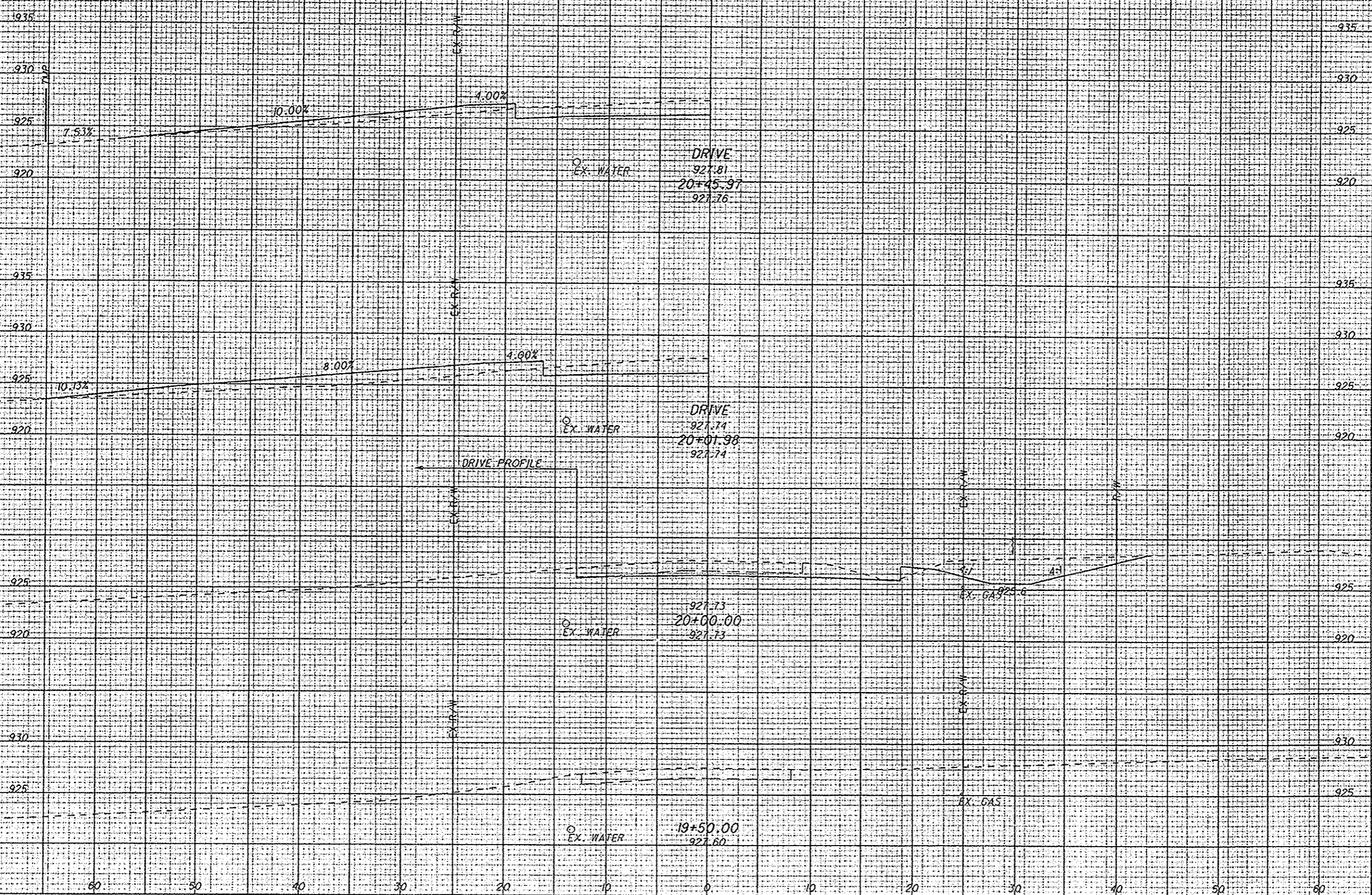
LIC-THORNWOOD

241
285

IP_PWP:dms08268\78116XS003.DGN 02-SEP-2009 10:00AM jrove

SEEDING
END SO.
WIDTH YDS.

| END AREA | | VOLUME | | CALCULATED RAT | CREATED JEL |
|----------|------|--------|------|-------------------|----------------|
| CUT | FILL | CUT | FILL | | |
| | | | | | |



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

LIC-THORNWOOD

IP_PWP_dms08268\78116XS003.DGN 02-SEP-2009 10:00AM jlove

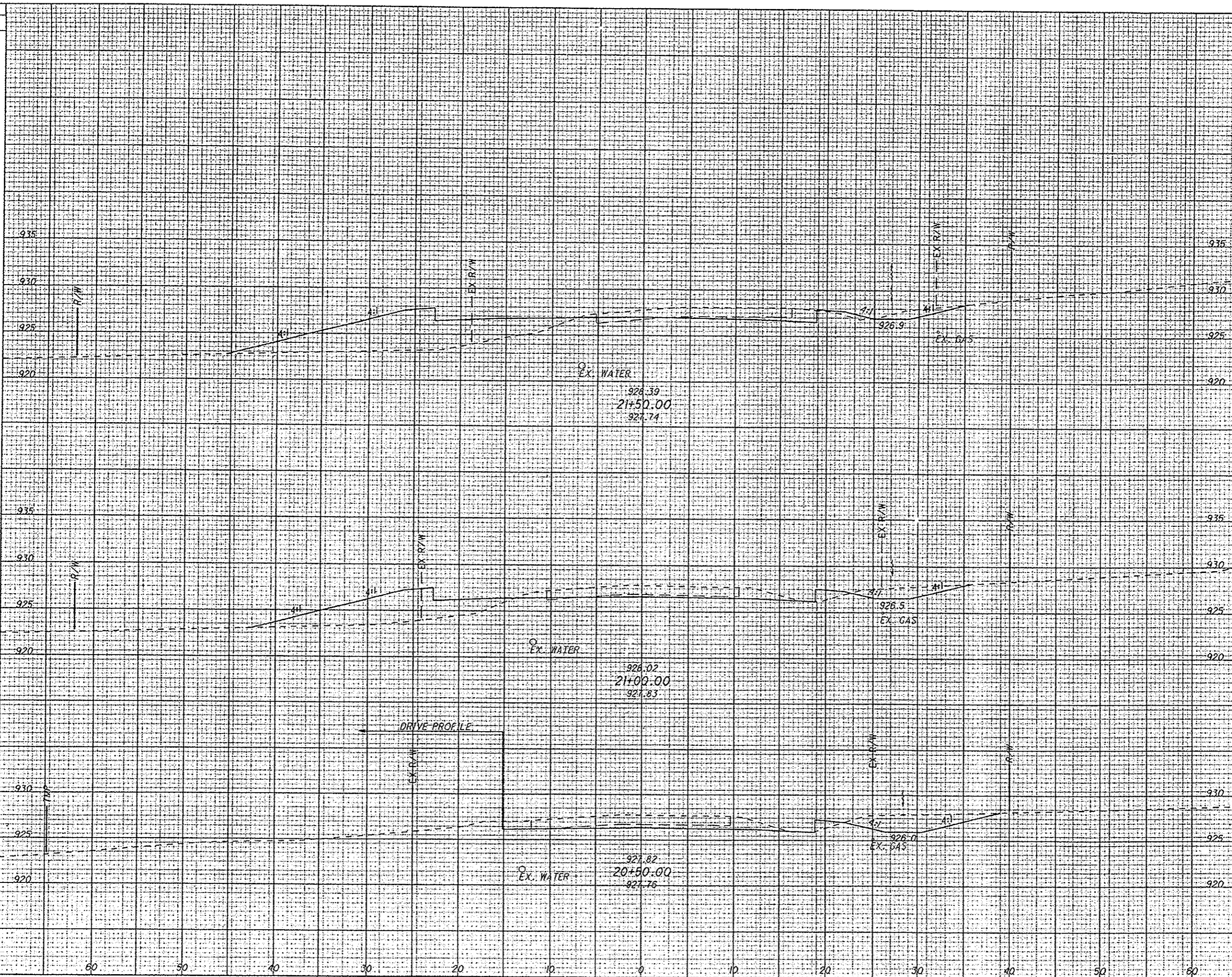
SEEDING
END WIDTH SO. 105.

| END AREA | | VOLUME | |
|----------|------|--------|------|
| OUT | FILL | OUT | FILL |
| | | | |

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

LIC-THORNWOOD

243
285



IP_PWP.dms08268\78116\XS003.DGN 02-SEP-2009 10:00AM jlove

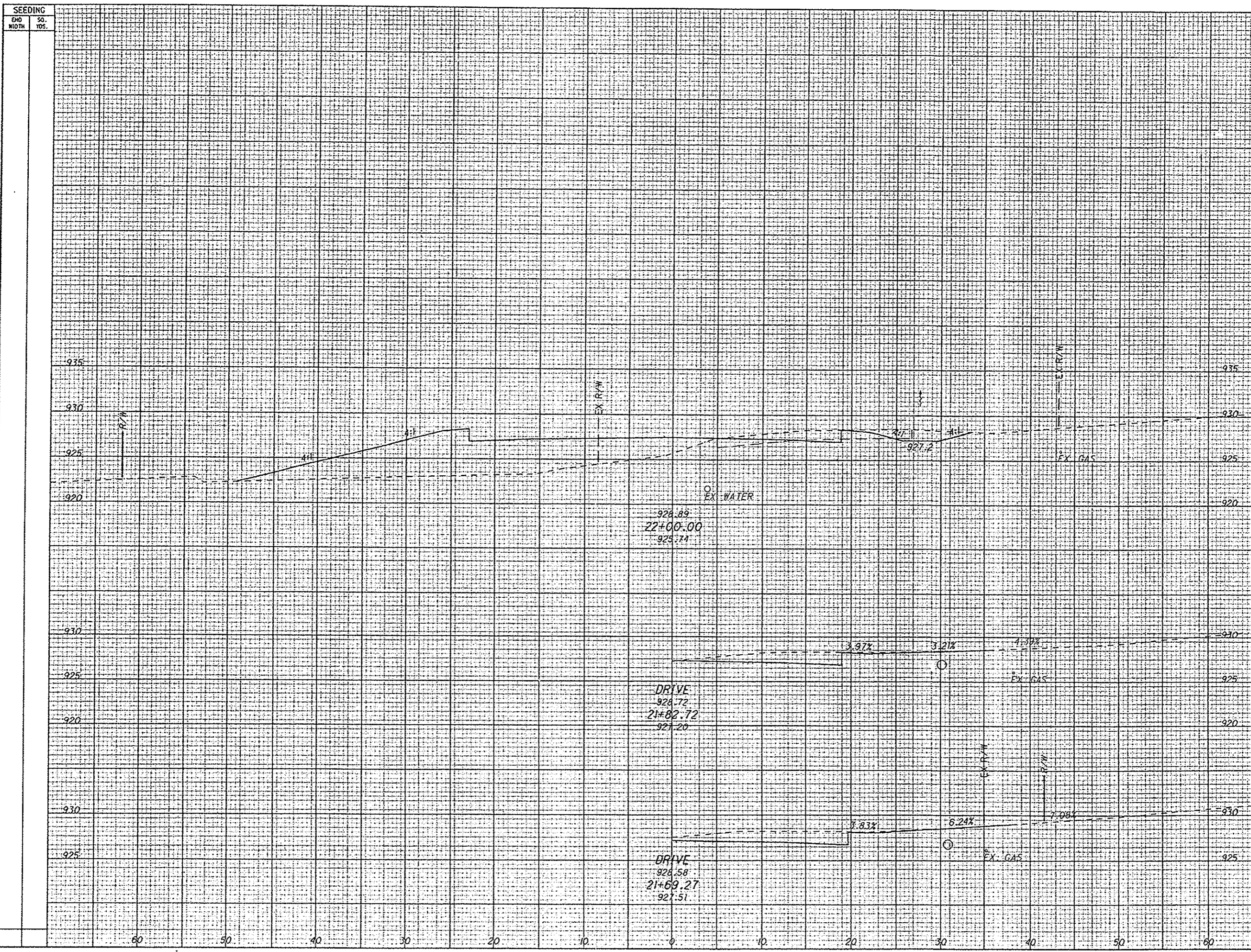
SEEDING
END SO.
WIDTH YDS.

| END AREA | | VOLUME | |
|----------|------|--------|------|
| CUT | FILL | CUT | FILL |
| | | | |

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

LIC-THORNWOOD

244
285



IP_PWP.dms08288\78116XS003.DGN 02-SEP-2009 10:01AM jlove

SEEDING

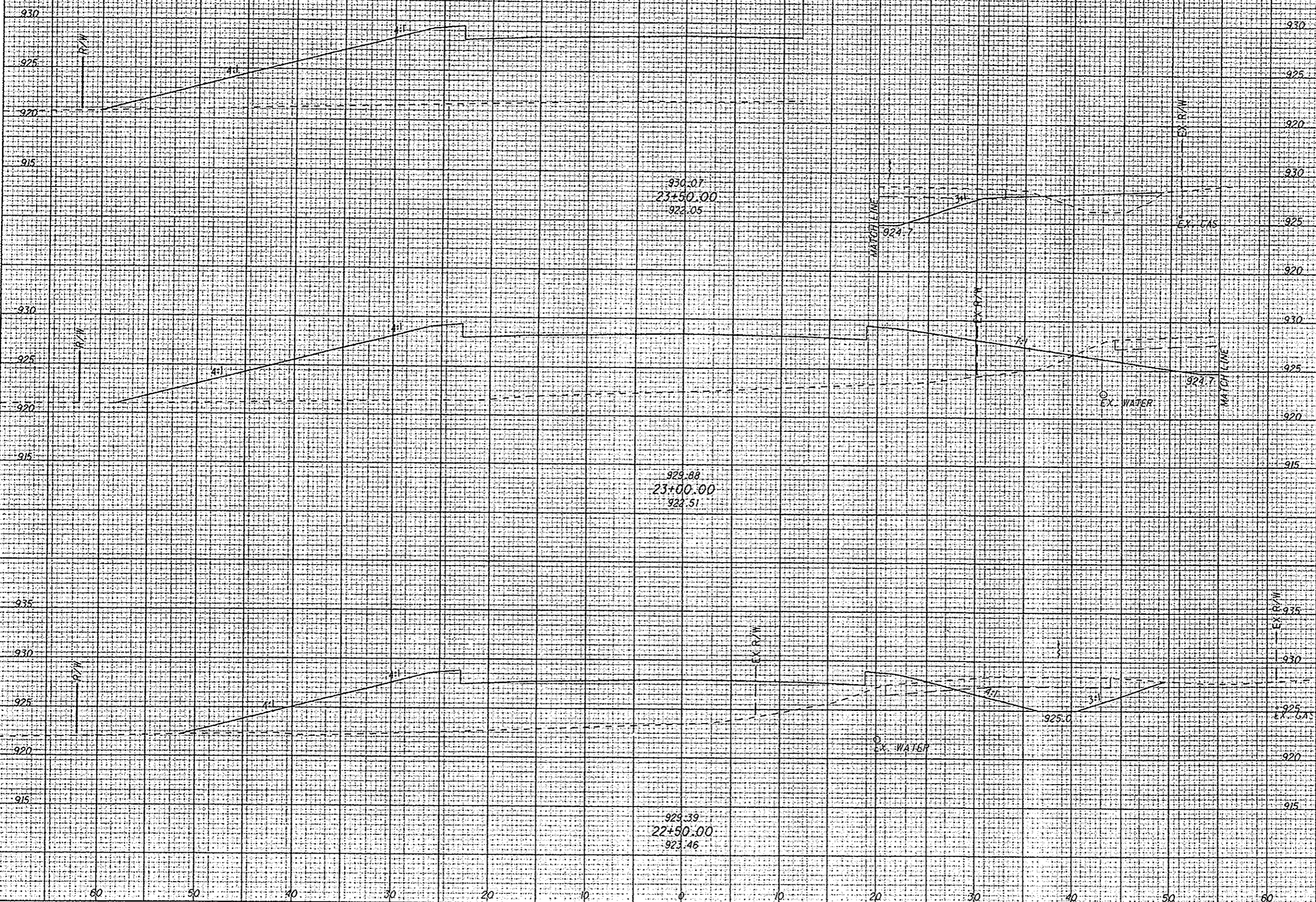
END SO. WIDTH YDS.

END AREA

VOLUME

CALCULATED RAT

CHECKED JEL



930.07
23+50.00
922.05

929.88
23+00.00
922.51

929.39
22+50.00
923.46

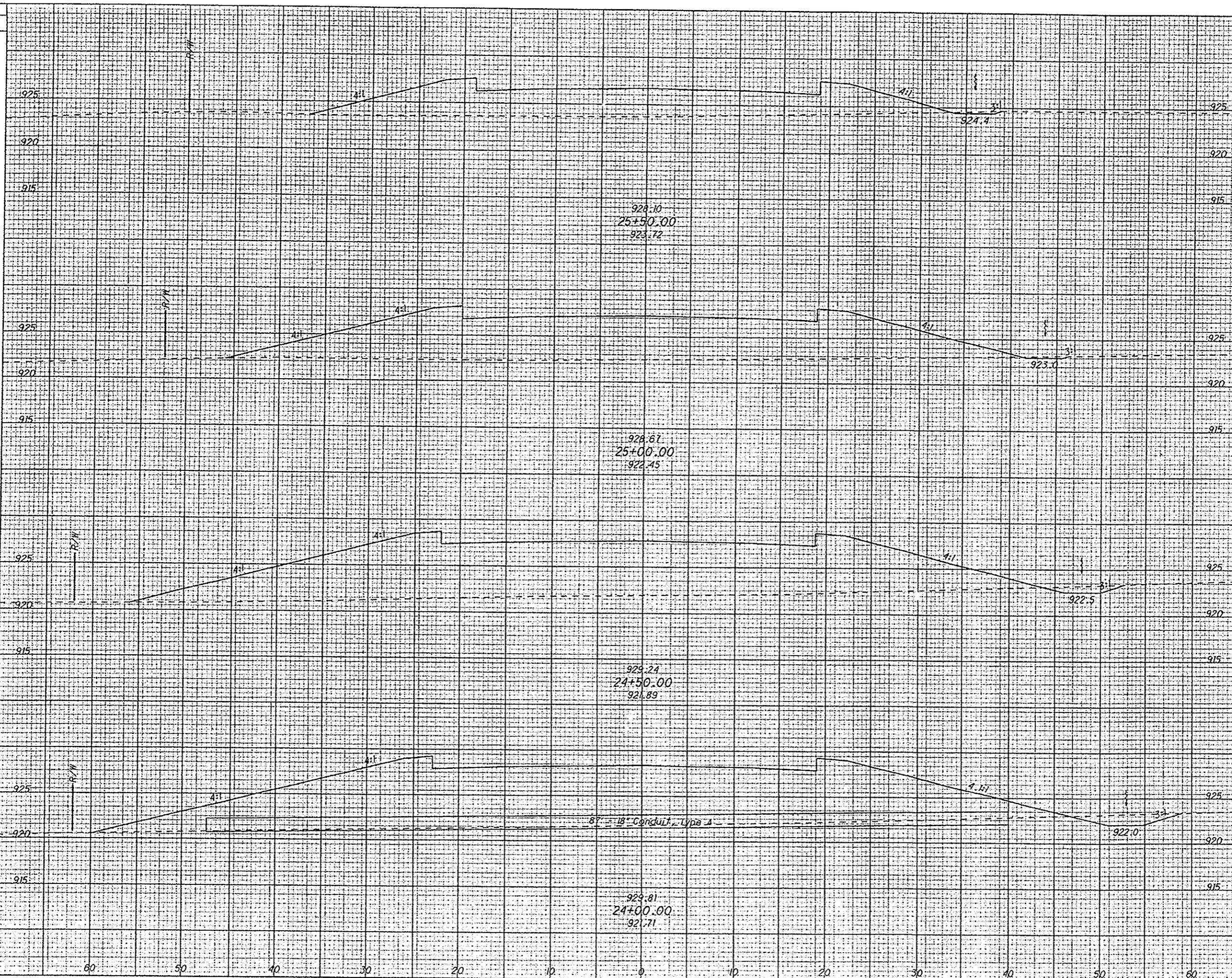
CROSS SECTIONS - RELOC. RIVER/REDDINGTON
STA. 22+50.00 TO STA. 23+50.00

LIC-THORNWOOD

245
285

IP_PWP.dms08268\78116X5003.DGN 02-SEP-2009 10:01 AM jlove

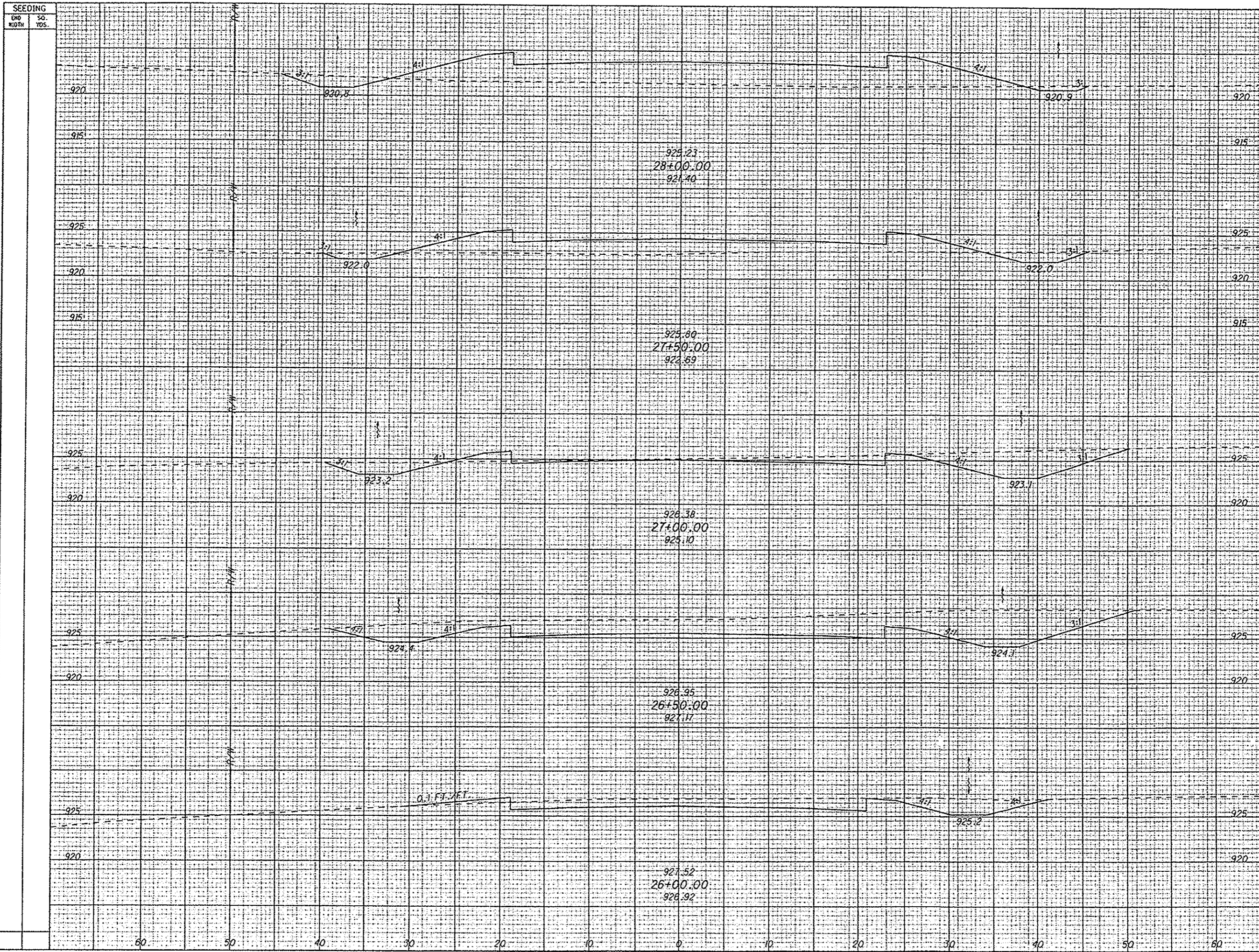
SEEDING
END SO.
WIDTH YDS.



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

LIC-THORNWOOD

IP_PWP.dms08268\78116x5003.DGN 02-SEP-2009 10:01 AM jlove



| SEEDING | | END AREA | | VOLUME | | CALCULATED RAT | CHECKED JEL |
|-----------|----------|----------|------|--------|------|----------------|-------------|
| END WIDTH | SG. NOS. | CUT | FILL | CUT | FILL | | |
| | | | | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116XS003.DGN 02-SEP-2009 10:01AM jrove

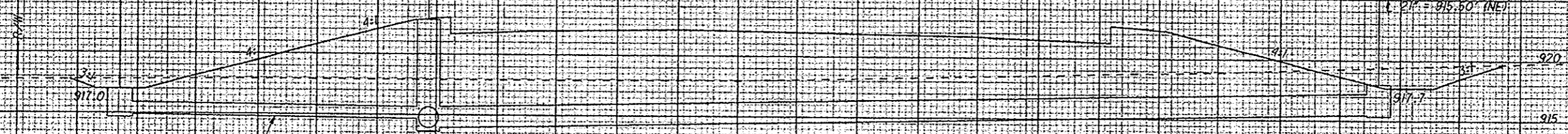
SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL
CALCULATED
RAT
CREGEO
JEL

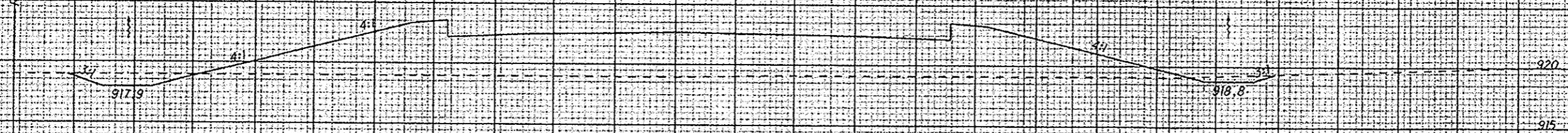
PROP. CB NO. 2-28
STA. 29+50.00 - 46.40' LT
GRATE ELEV. = 917.00'
E 12" = 914.90' (S)

PROP. MH NO. 3
STA. 29+55.34 - 20.67' LT
GRATE ELEV. = 922.78'
E 21" = 913.90' (SW NE)
E 12" = 914.65' (N)

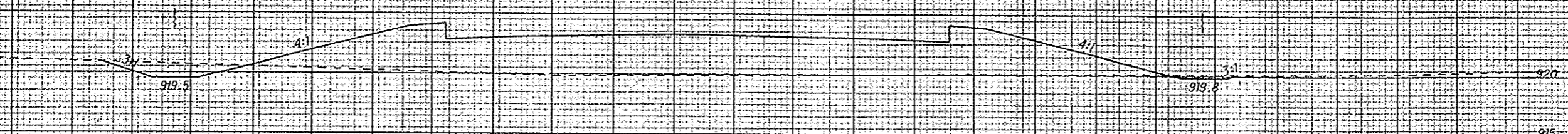
PROP. CB NO. 2-3
STA. 29+43.00 - 58.22' RT
GRATE ELEV. = 918.00'
E 21" = 915.50' (NE)



923.50
29+50.00
917.92



924.08
29+00.00
918.91



924.66
28+50.00
919.87

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

LIC-THORNWOOD

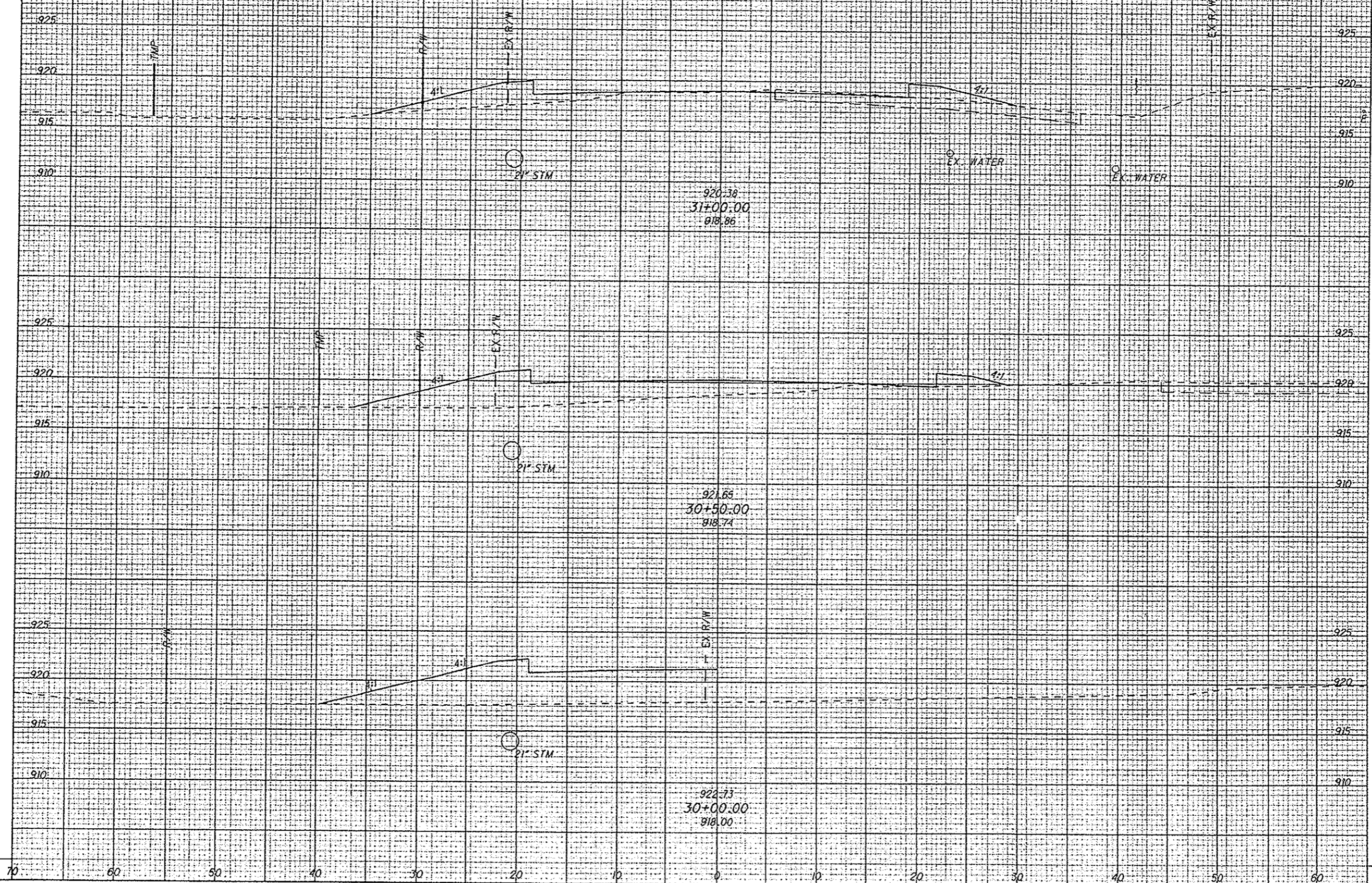
IP_PWP:dms08268\78116XS003.DGN 02-SEP-2009 10:01AM jlove

SEEDING
END SO.
WIDTH YDS.

END AREA
CUT FILL

VOLUME
CUT FILL

CALCULATED
RAT
CHECKED
JEL

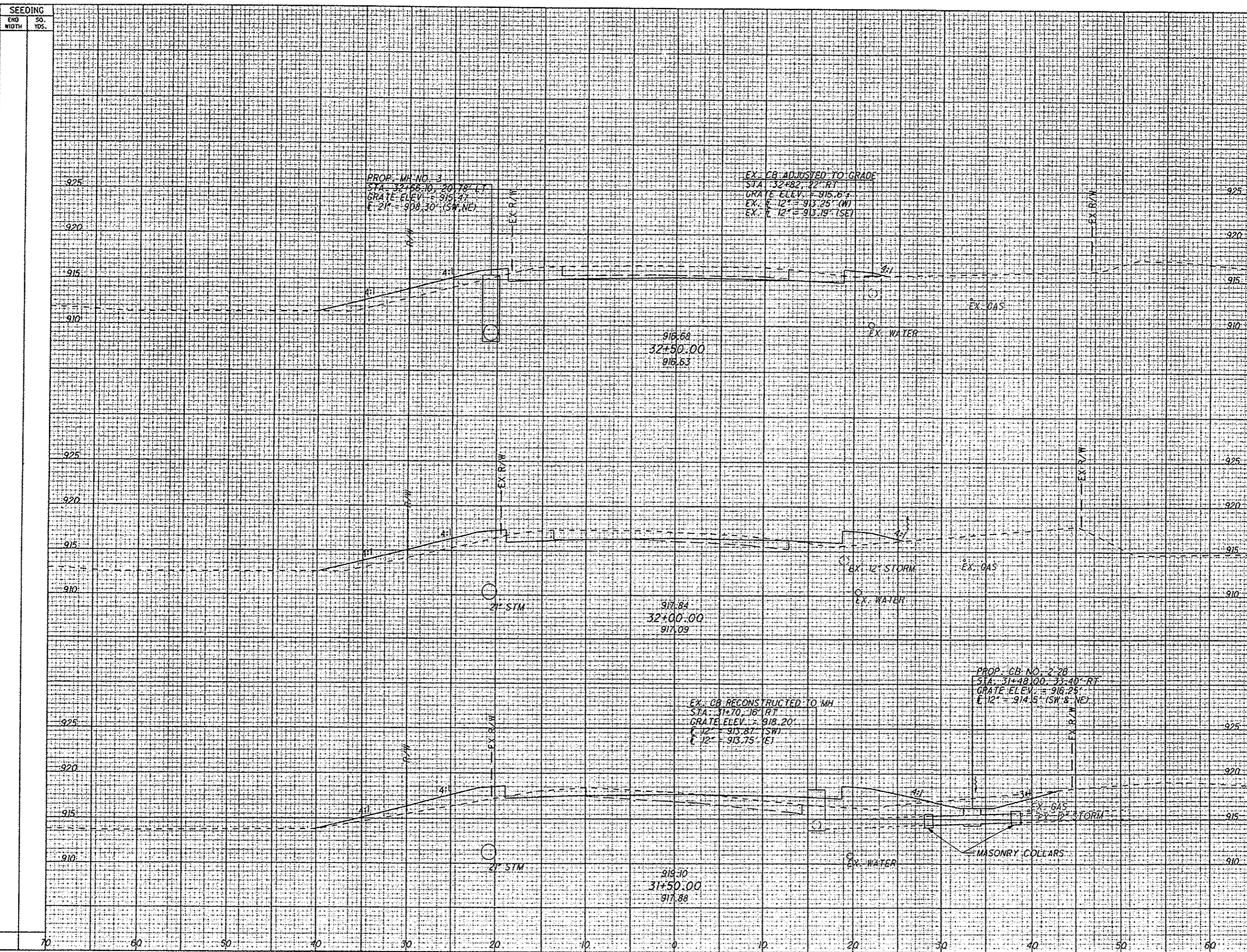


CROSS SECTIONS - RELOC. RIVER/REDDINGTON
STA. 30+00.00 TO STA. 31+00.00

LIC - THORNWOOD

249
285

P:\PWP_dms08268\78116\5003.DGN 02-SEP-2009 10:01AM flove

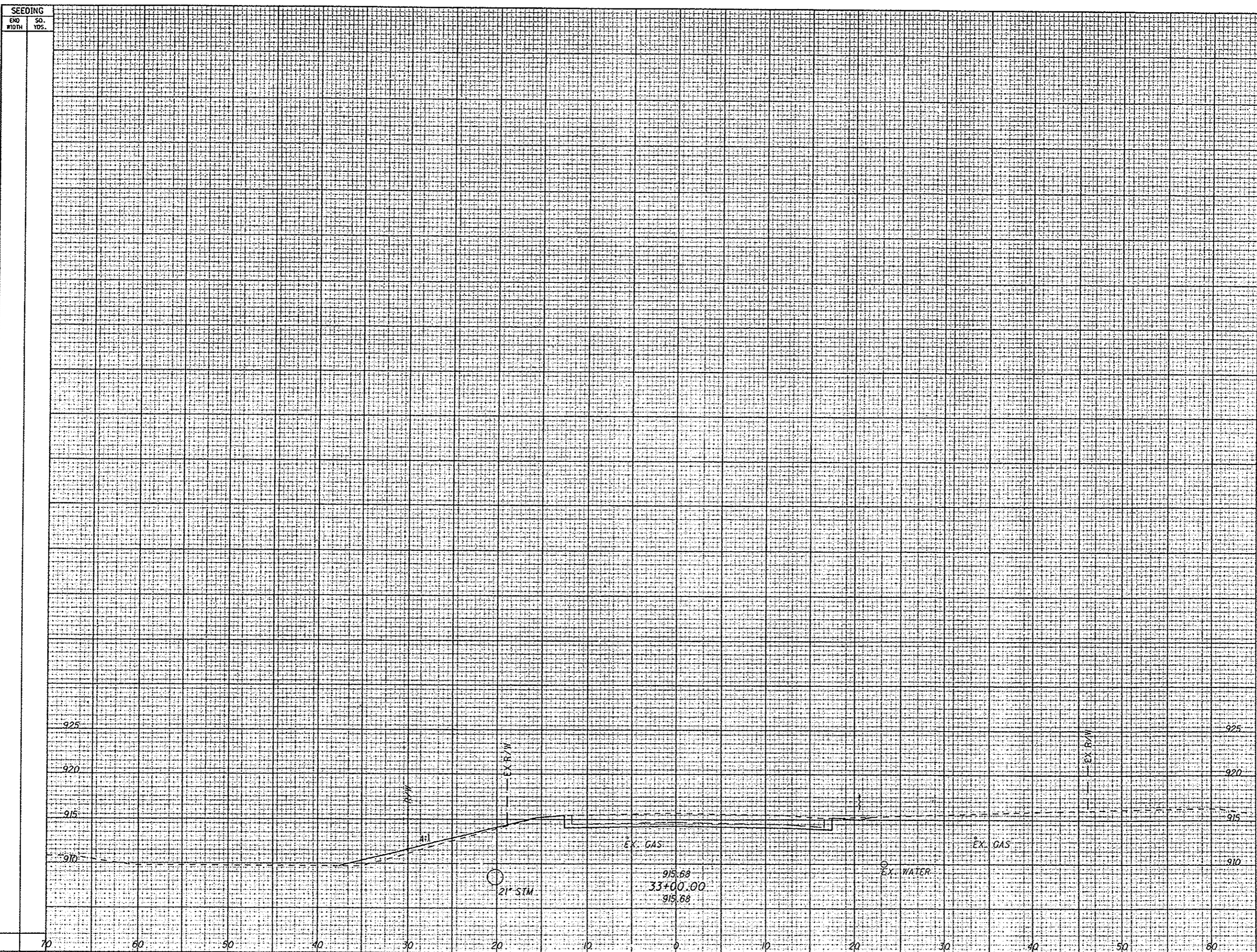


| END AREA | VOLUME | | CALCULATED RAT | CHECKED JEL |
|----------|--------|------|----------------|-------------|
| | OUT | FILL | | |
| | | | | |

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

LIC-THORNWOOD

IP_PWP.dms08268\78116X5003.DGN 02 - SEP - 2009 10:02AM jlove



| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |

| END AREA | | VOLUME | | CALCULATED | RAT | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

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

LIC-THORNWOOD

251
285

IP_PWP:dms08268\78116XS005.DGN 02-SEP-2009 7:39AM jlove

SEEDING

END SO-
WIDTH YDS.

END AREA

VOLUME

CALCULATED
MMB
CHECKED
JEL

920

915

910

905

920

915

910

905

910

920

915

910

905

920

915

910

905

910

912.79
16+00.00
912.79

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

CROSS SECTIONS - LEES
STA. 15+00.00 TO STA. 16+00.00

LIC-THORNWOOD

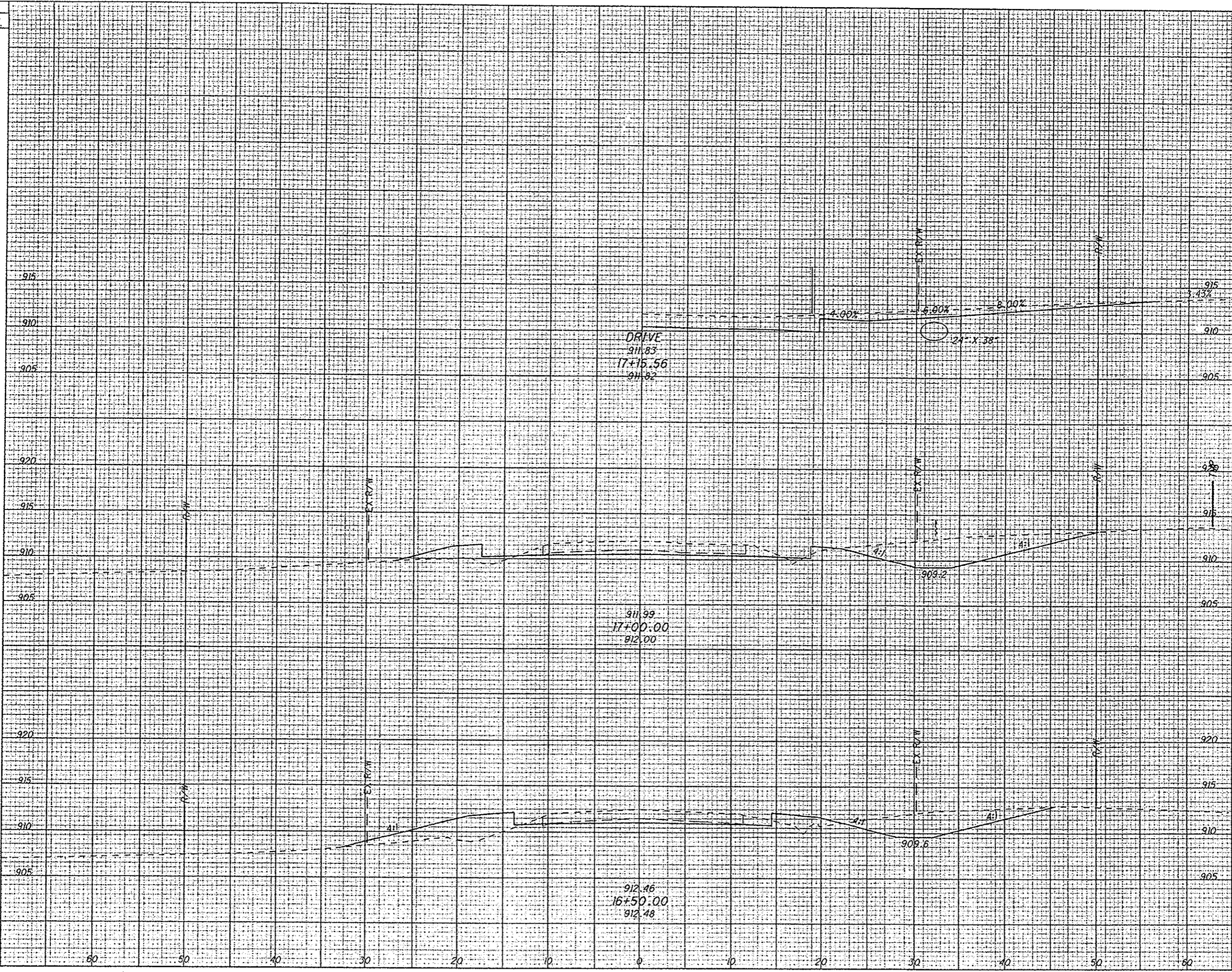
252
285

IP_P:\WF\dms08268\78116\X5005.DGN 02-SEP-2009 7:39AM jrlv

SEEDING
END WIDTH SQ. YDS.

END AREA VOLUME
CUT FILL CUT FILL

CALCULATED
MMB CHECKED
JEL



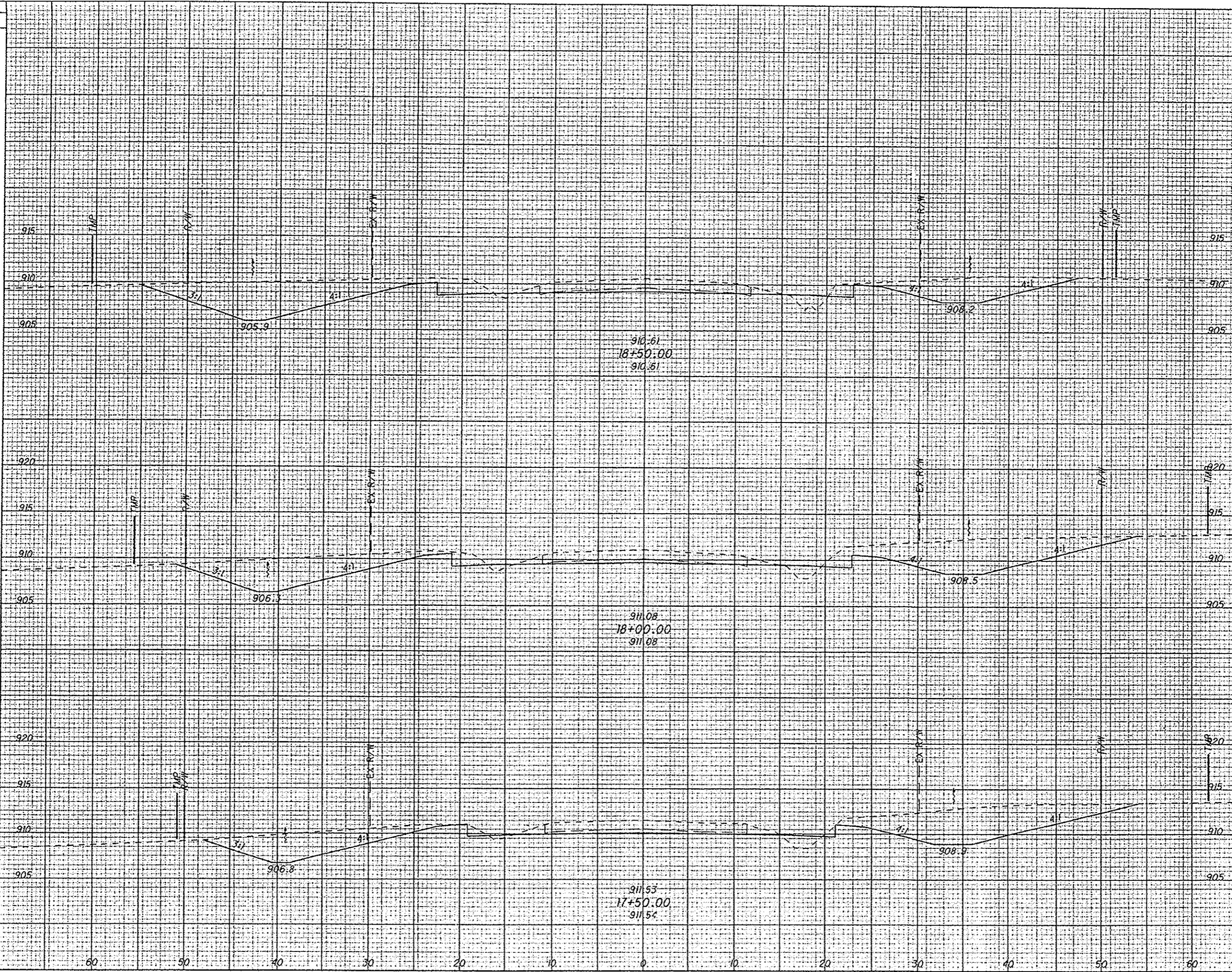
CROSS SECTIONS - LEES
STA. 16+50.00 TO STA. 17+15.56

LIC-THORNWOOD

253
285

IP_PWP.dms08268\78116\S005.DGN 02-SEP-2009 7:39AM jlove

SEEDING
 END SO. NO. MOTH YRS.



910.61
 18+50.00
 910.61

911.08
 18+00.00
 911.08

911.53
 17+50.00
 911.54

| END AREA | VOLUME | | CALCULATED | MMB CHECKED | JEL |
|----------|--------|------|------------|-------------|-----|
| | CUT | FILL | | | |
| | | | | | |

CROSS SECTIONS - LEES
 STA. 17+50.00 TO STA. 18+50.00

LIC - THORNWOOD

254
 285

IP_PWP_dms08268_78116X5005.DGN_02-SEP-2009 7:39AM jlove

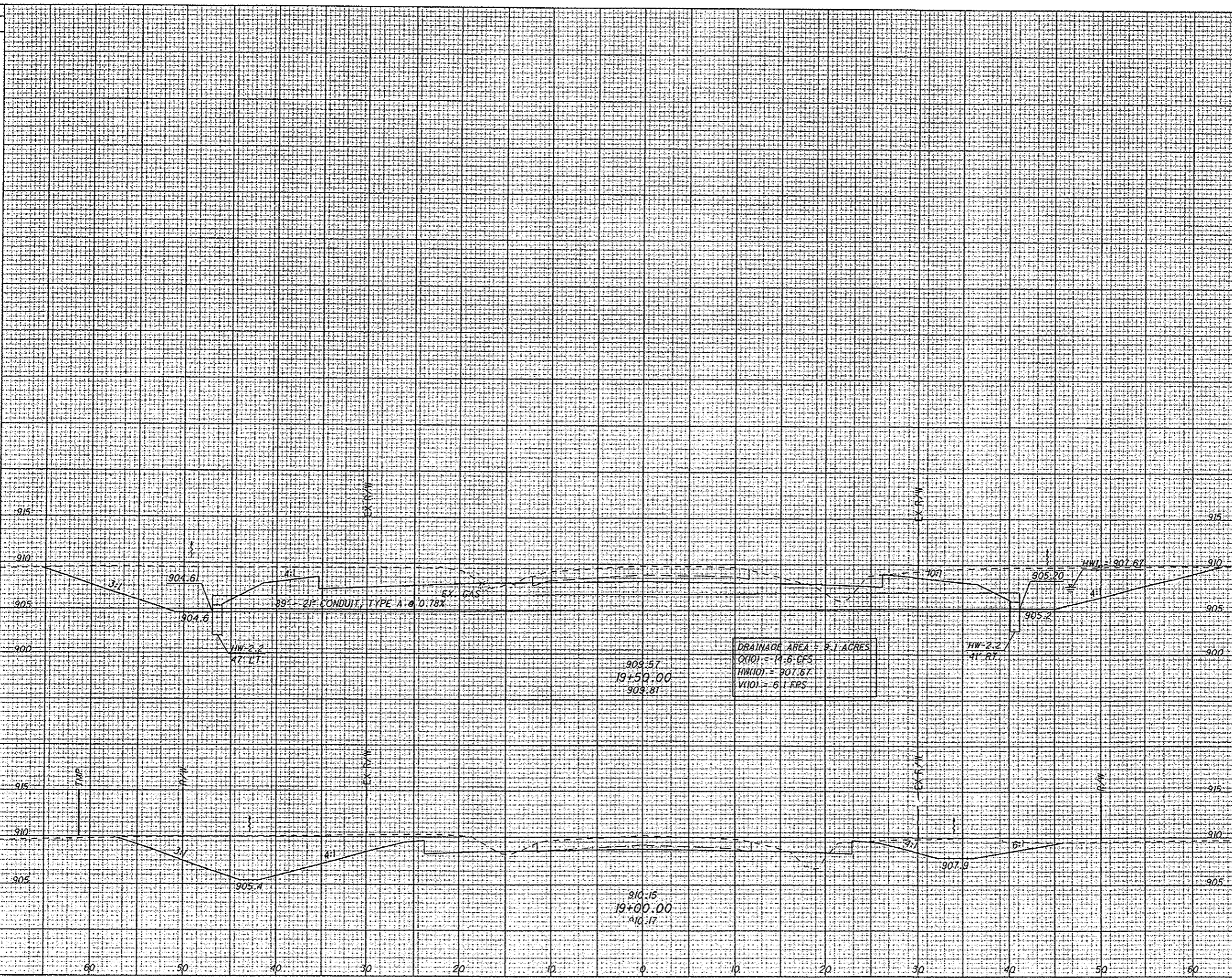
SEEDING

END SO.
WIDTH YDS.

END AREA
CUT FILL

VOLUME
CUT FILL

CALCULATED
MMB
CHECKED
JEL



DRAINAGE AREA = 8.1 ACRES
 Q(10) = 19.6 CFS
 HW(10) = 907.67
 V(10) = 6.1 FPS

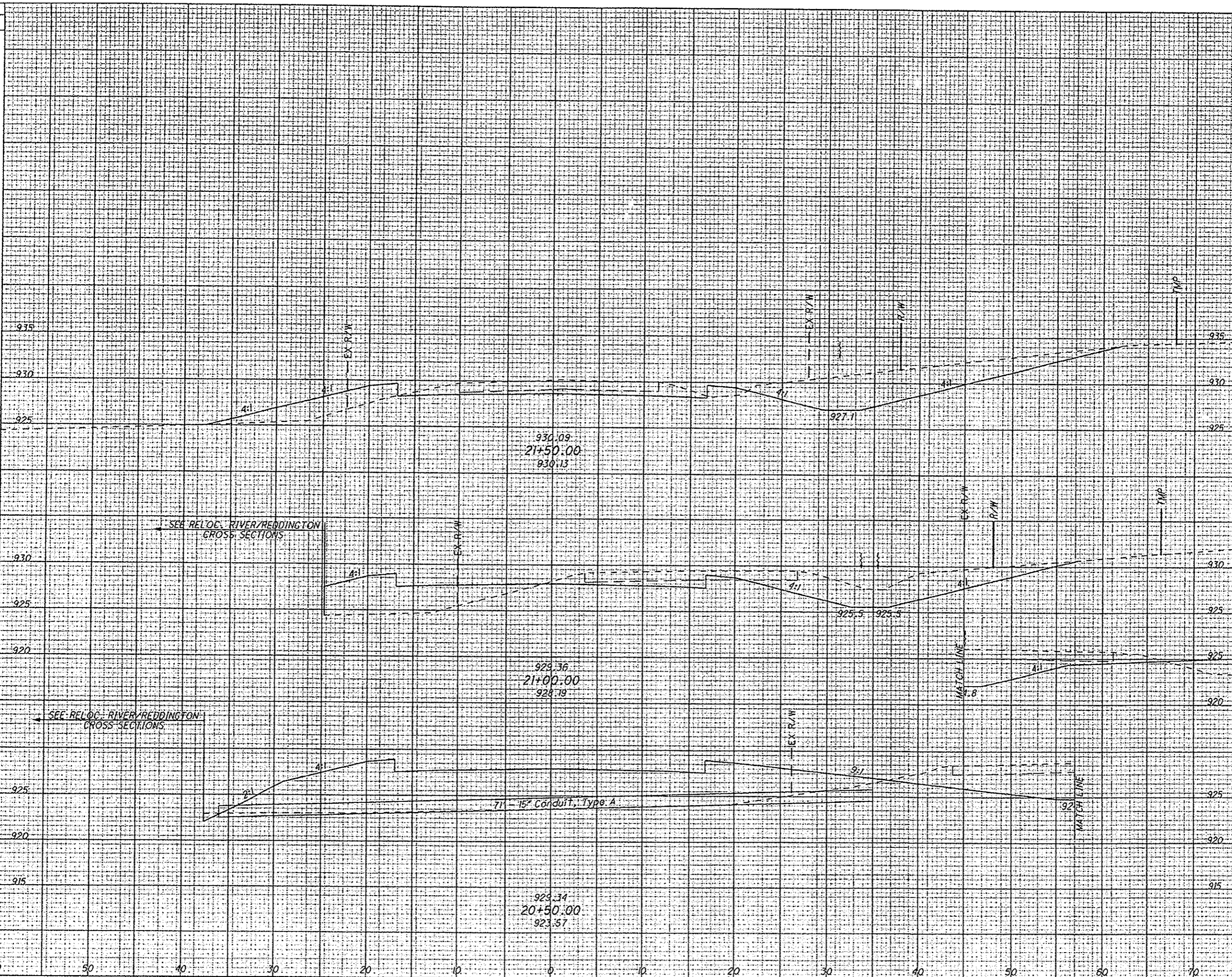
CROSS SECTIONS - LEES
 STA. 19+00.00 TO STA. 19+50.00

LIC-THORNWOOD

255
285

P:\PWP-dms08268\78116X5007.dgn 02-SEP-2009 7:40AM jlove

SEEDING
END WIDTH SO. YDS.



| END AREA | | VOLUME | | CALCULATED | RAT | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

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

LIC-THORNWOOD

256
285

IP_P:\WF\dms08268\78116\5007.dgn 02-SEP-2009 7:40AM jlove

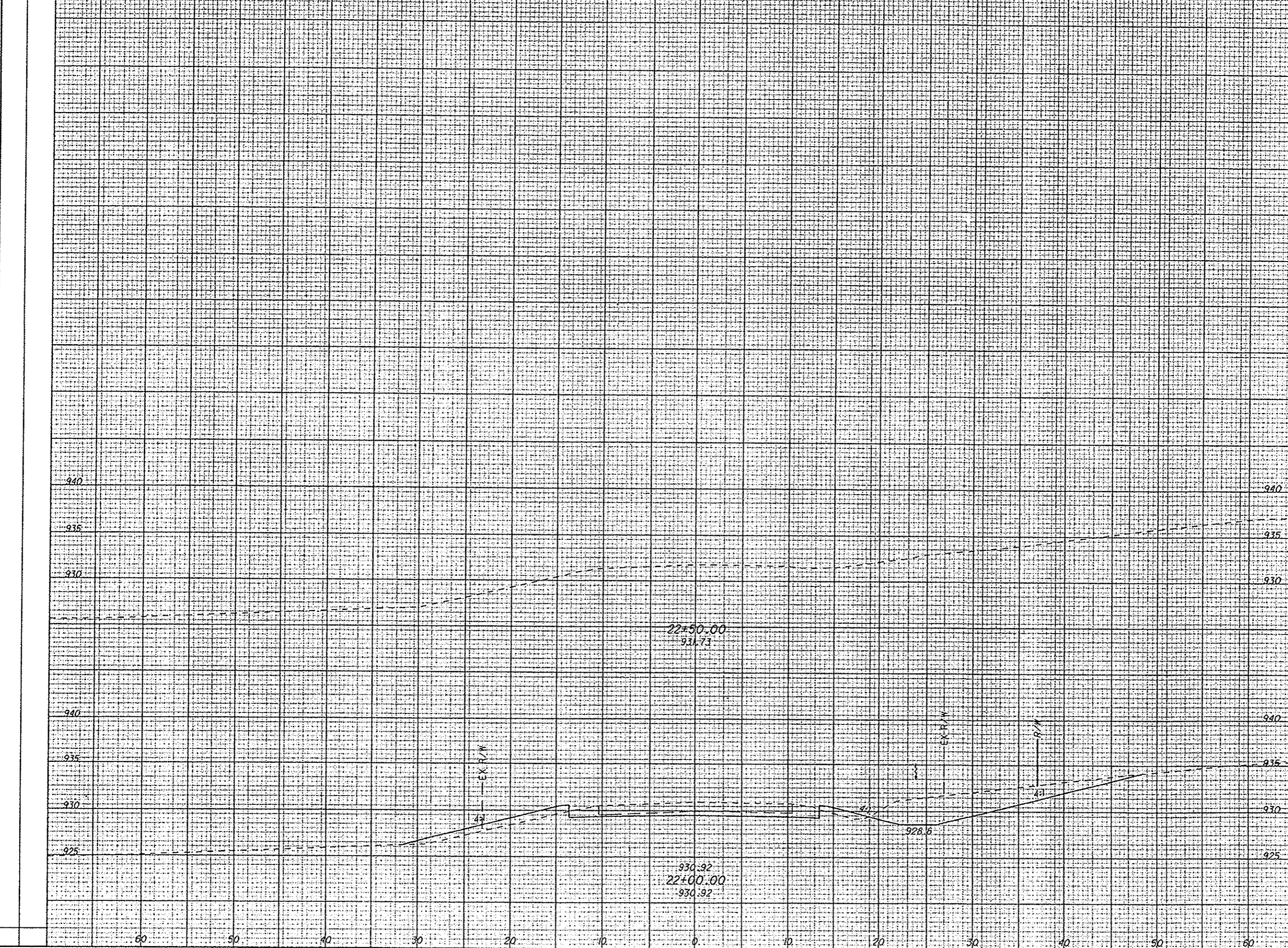
SEEDING

END SO.
WIDTH YDS.

END AREA

VOLUME

CALCULATED
RAI
CROSS
JEL



| END AREA | | VOLUME | |
|----------|------|--------|------|
| Cut | Fill | Cut | Fill |
| | | | |

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

LIC-THORNWOOD

257
285

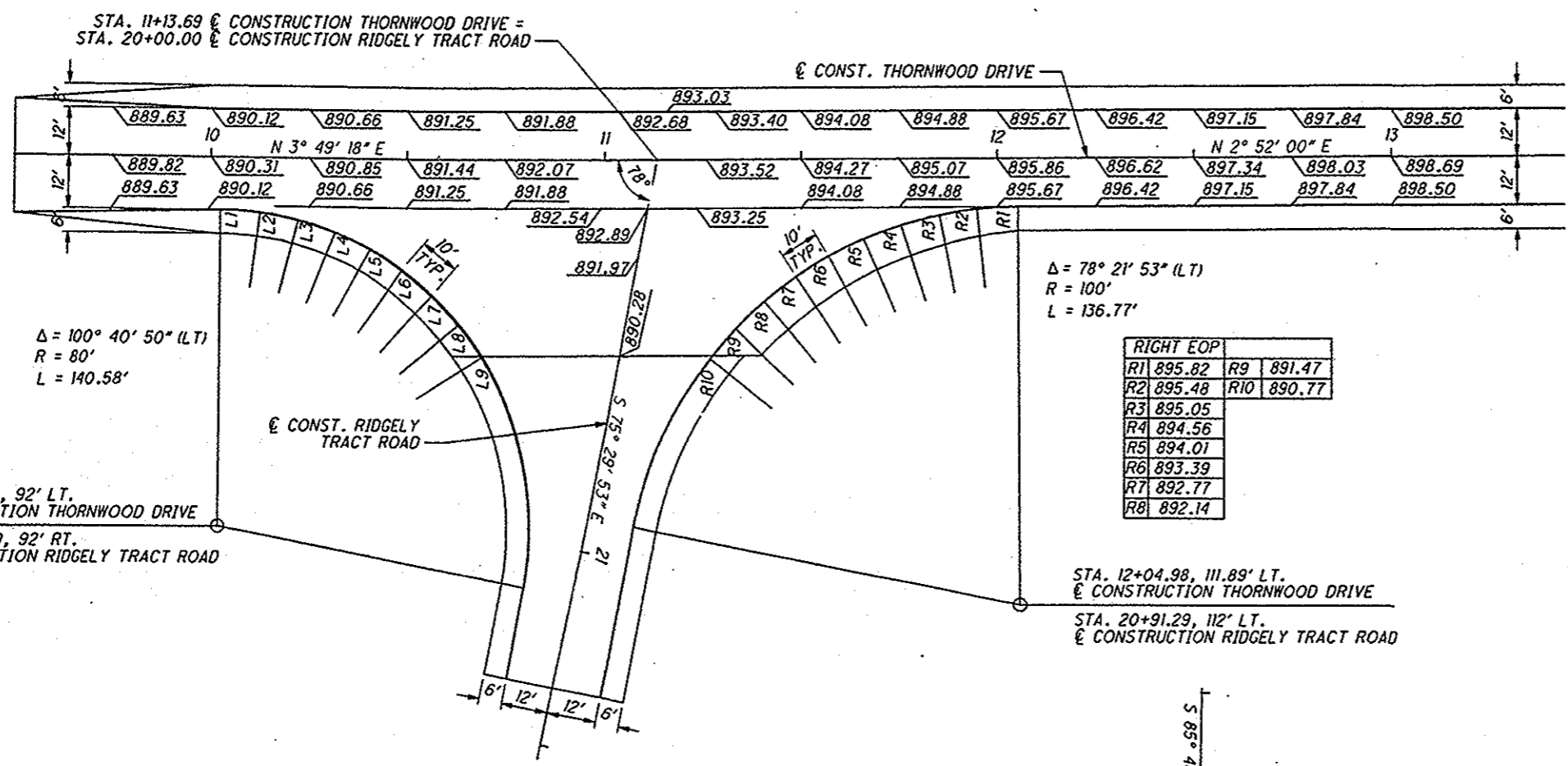


HORIZONTAL SCALE IN FEET

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.
 CONST. THORNWOOD DRIVE
 21+11.49, 92' RT.
 NSTRUCTION RIDGELY TRACT ROAD

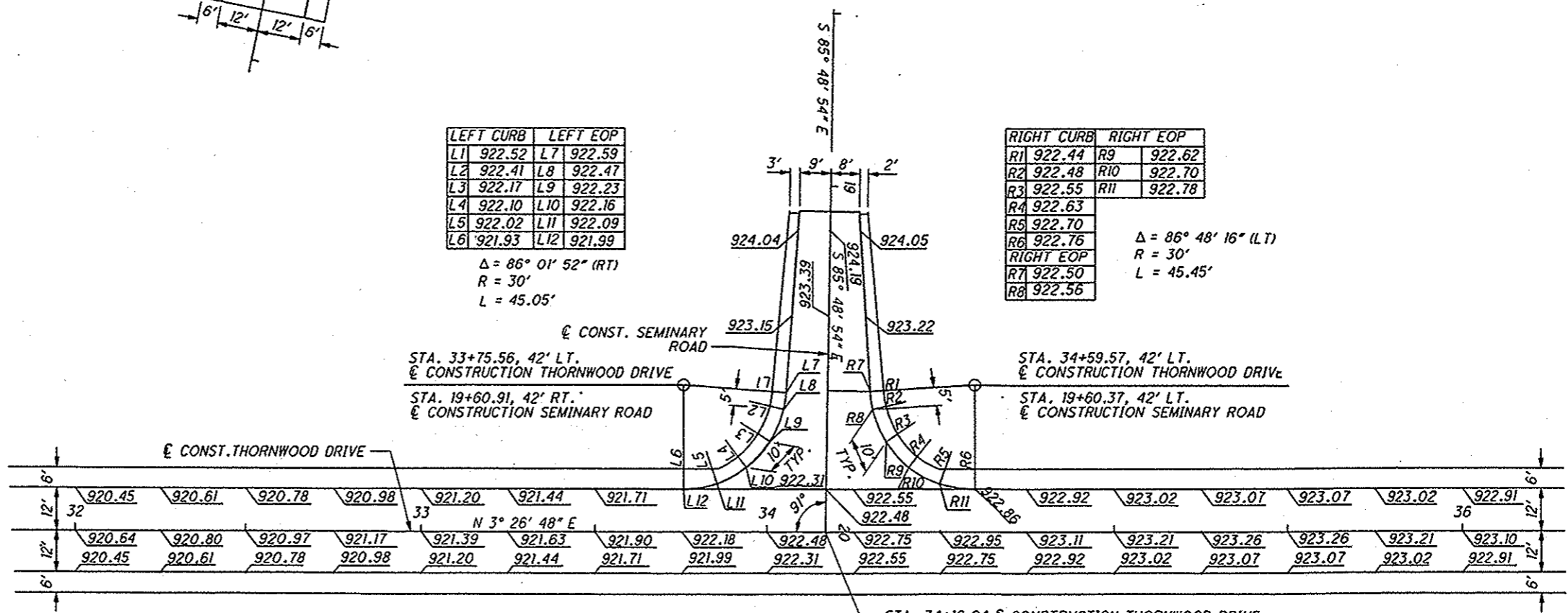
STA. 12+04.98, 111.89' LT.
 CONST. THORNWOOD DRIVE
 STA. 20+91.29, 112' LT.
 CONST. RIDGELY TRACT ROAD

| 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.
 CONST. THORNWOOD DRIVE
 STA. 19+60.91, 42' RT.
 CONST. SEMINARY ROAD

STA. 34+59.57, 42' LT.
 CONST. THORNWOOD DRIVE
 STA. 19+60.37, 42' LT.
 CONST. SEMINARY ROAD

STA. 34+16.94 CONST. THORNWOOD DRIVE =
 STA. 20+00.00 CONST. SEMINARY ROAD

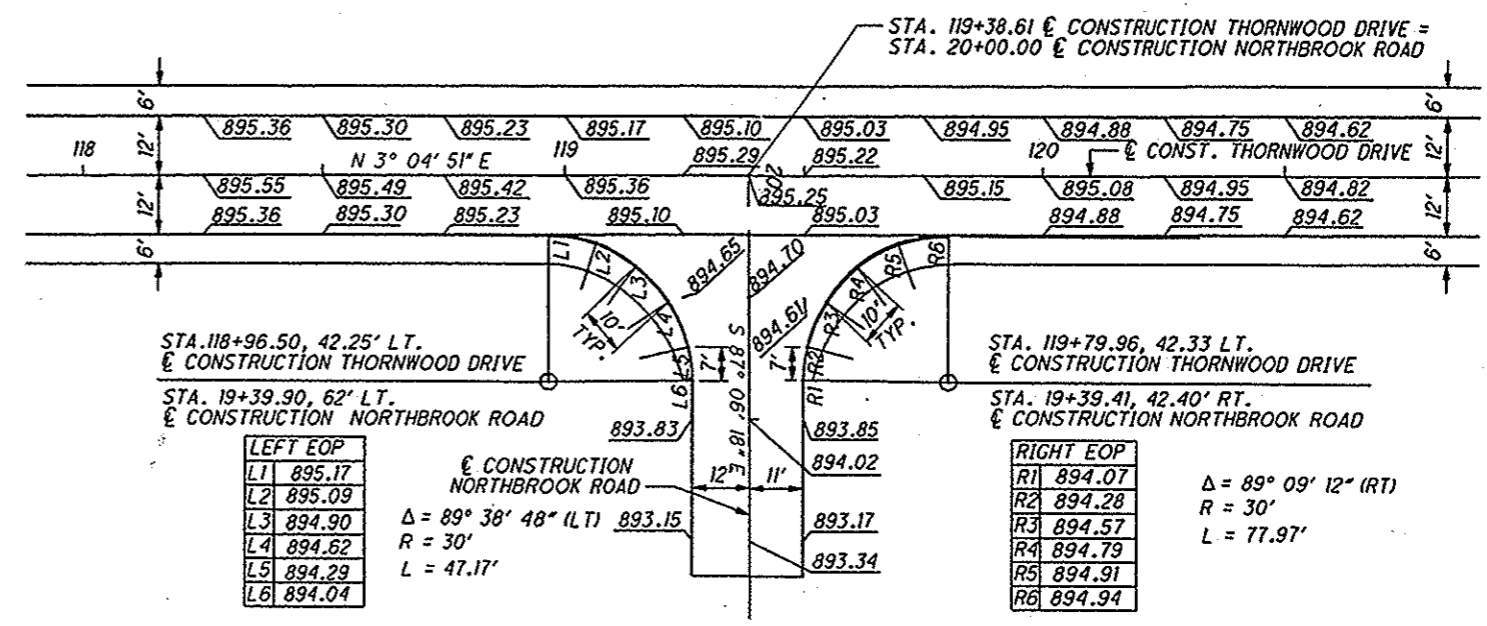


HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

INTERSECTION DETAILS
LEES ROAD & NORTHBROOK COURT

LIC-THORNWOOD

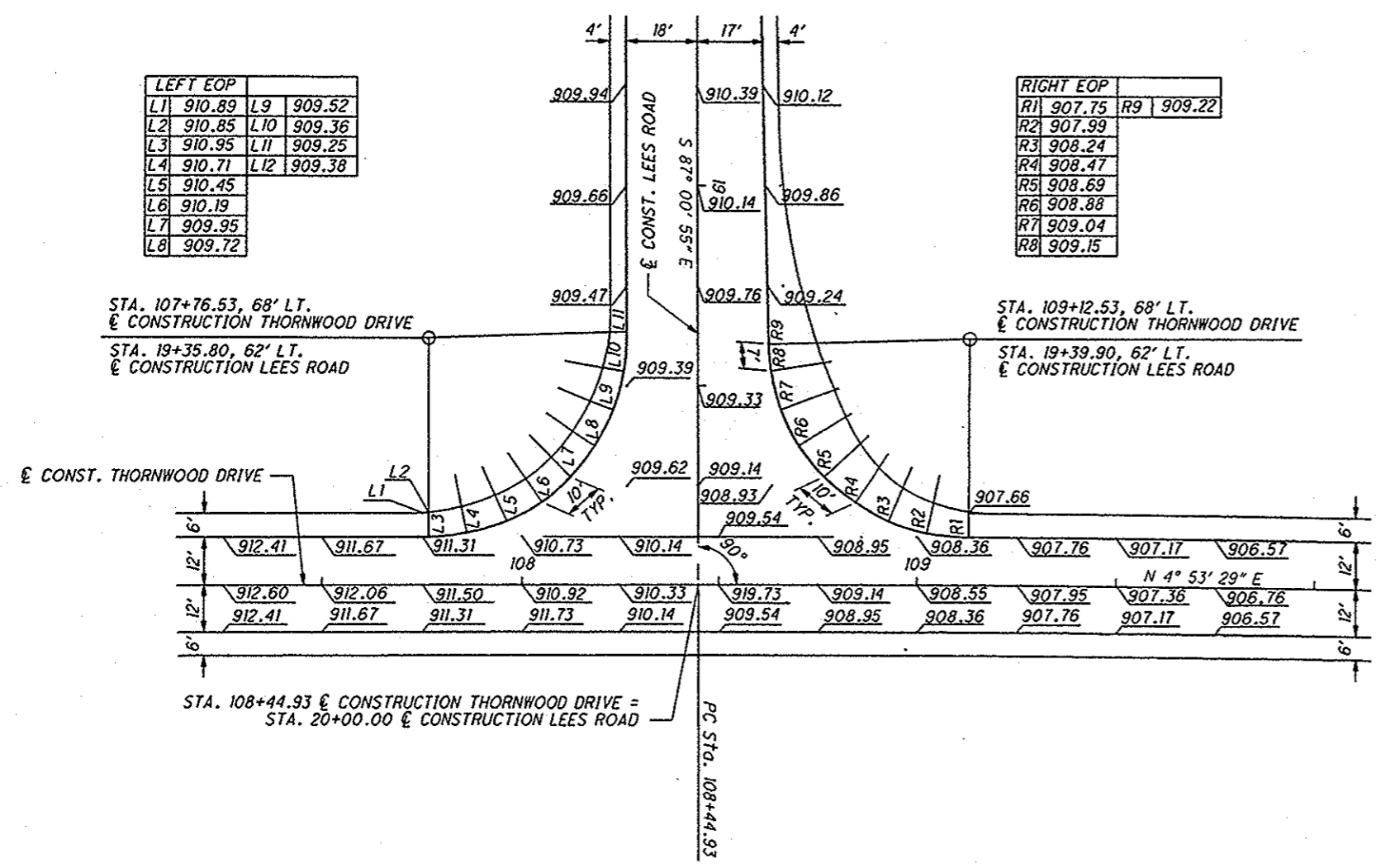


| LEFT EOP | |
|----------|--------|
| L1 | 895.17 |
| L2 | 895.09 |
| L3 | 894.90 |
| L4 | 894.62 |
| L5 | 894.29 |
| L6 | 894.04 |

| RIGHT EOP | |
|-----------|--------|
| R1 | 894.07 |
| R2 | 894.28 |
| R3 | 894.57 |
| R4 | 894.79 |
| R5 | 894.91 |
| R6 | 894.94 |

| LEFT EOP | |
|----------|--------|
| L1 | 910.89 |
| L2 | 910.85 |
| L3 | 910.95 |
| L4 | 910.71 |
| L5 | 910.45 |
| L6 | 910.19 |
| L7 | 909.95 |
| L8 | 909.72 |
| L9 | 909.52 |
| L10 | 909.36 |
| L11 | 909.25 |
| L12 | 909.38 |

| RIGHT EOP | |
|-----------|--------|
| R1 | 907.75 |
| R2 | 907.99 |
| R3 | 908.24 |
| R4 | 908.47 |
| R5 | 908.69 |
| R6 | 908.88 |
| R7 | 909.04 |
| R8 | 909.15 |
| R9 | 909.22 |



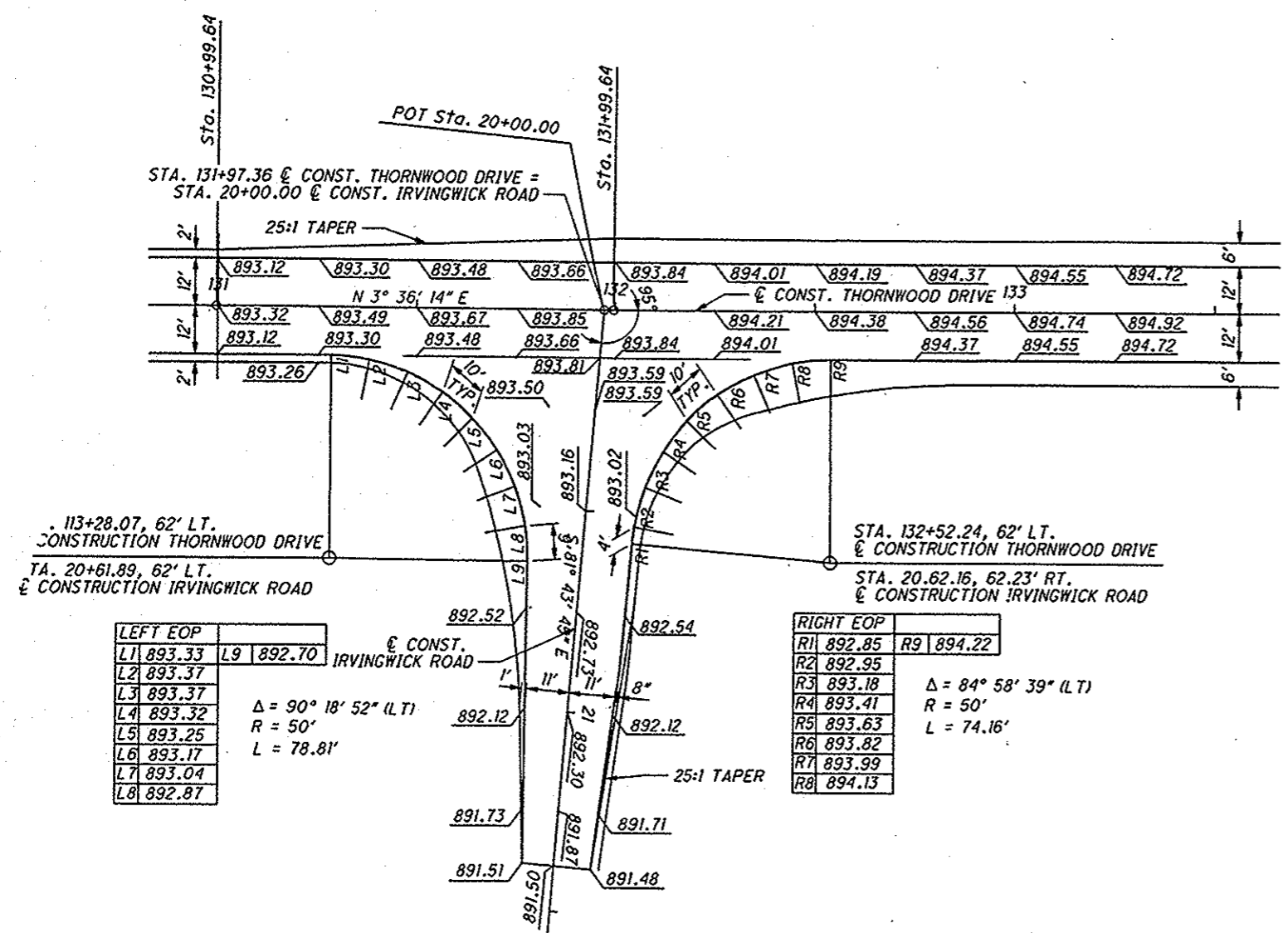


HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

INTERSECTION DETAILS
IRVING WICK DRIVE & HALLIE ROAD

LIC-THORNWOOD

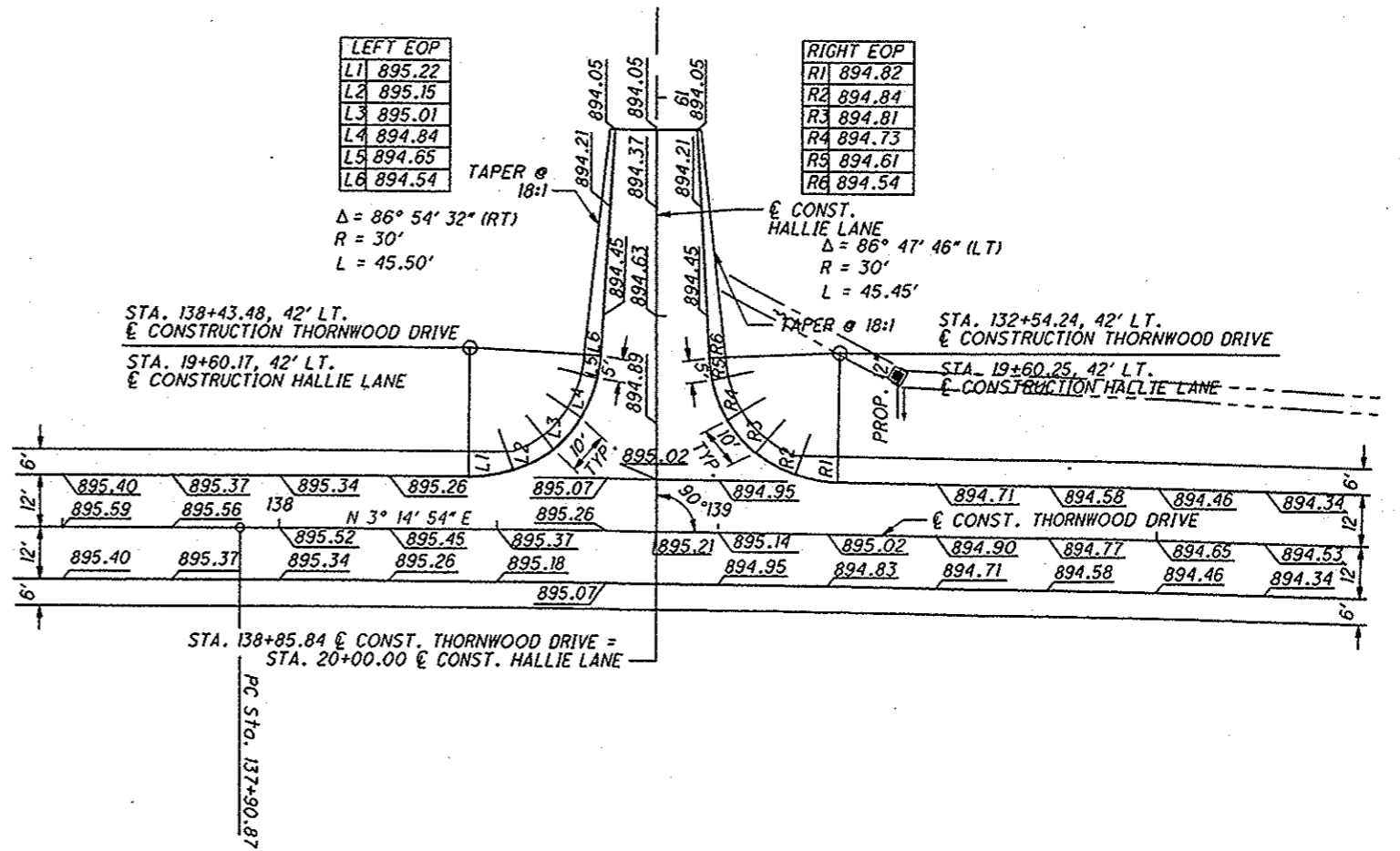


| LEFT EOP | |
|----------|--------|
| L1 | 893.33 |
| L2 | 893.37 |
| L3 | 893.37 |
| L4 | 893.32 |
| L5 | 893.25 |
| L6 | 893.17 |
| L7 | 893.04 |
| L8 | 892.87 |

$\Delta = 90^\circ 18' 52''$ (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 |

$\Delta = 84^\circ 58' 39''$ (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)
 $R = 30'$
 $L = 45.45'$

IP_PWP:dms08268\781160003.dgn 02-SEP-2009 7:40AM jlove

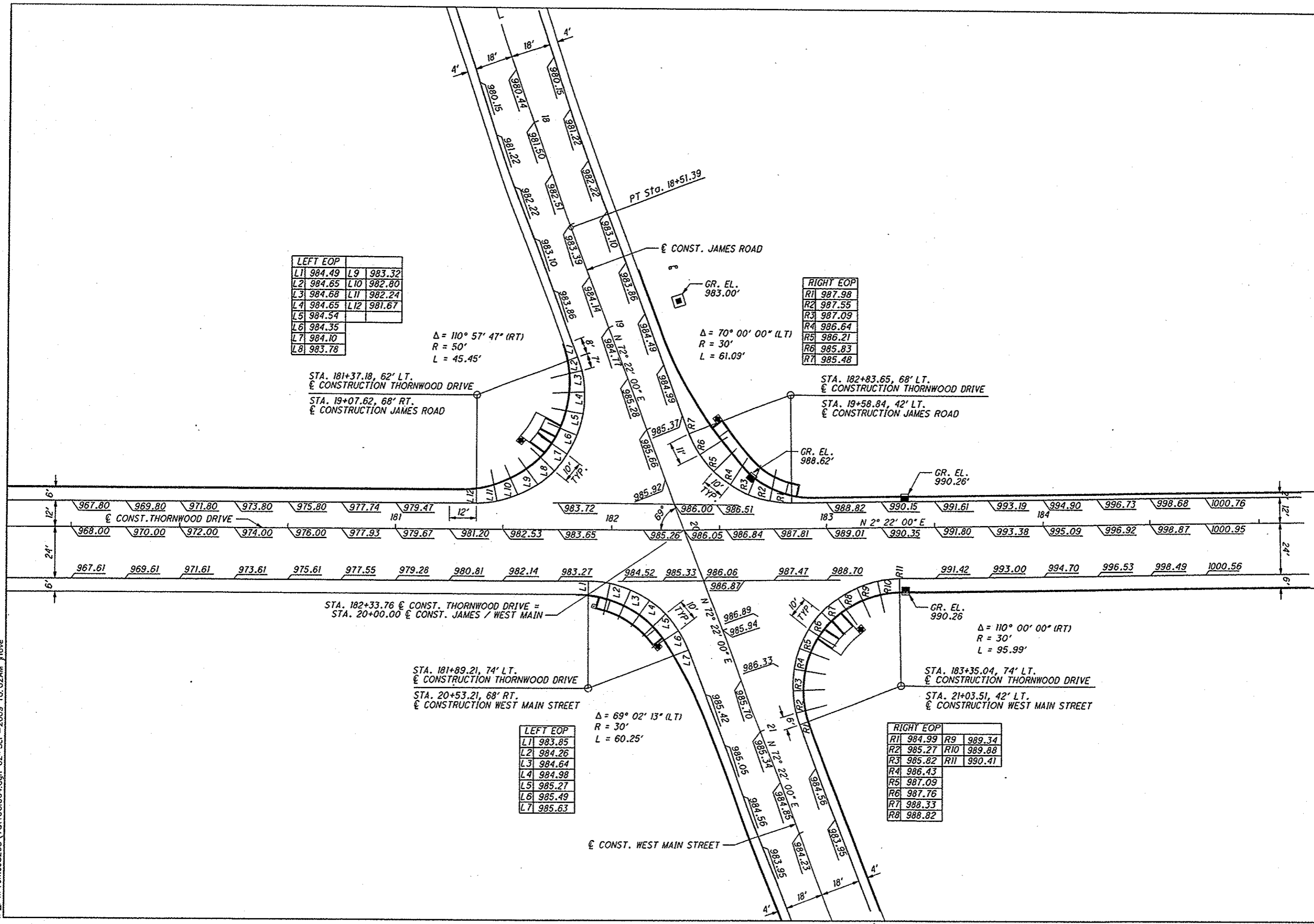


HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

INTERSECTION DETAIL
JAMES ROAD / WEST MAIN STREET

LIC-THORNWOOD



| 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 | 984.99 |
| R2 | 985.27 |
| R3 | 985.82 |
| R4 | 986.43 |
| R5 | 987.09 |
| R6 | 987.76 |
| R7 | 988.33 |
| R8 | 988.82 |
| R9 | 989.34 |
| R10 | 989.88 |
| R11 | 990.41 |

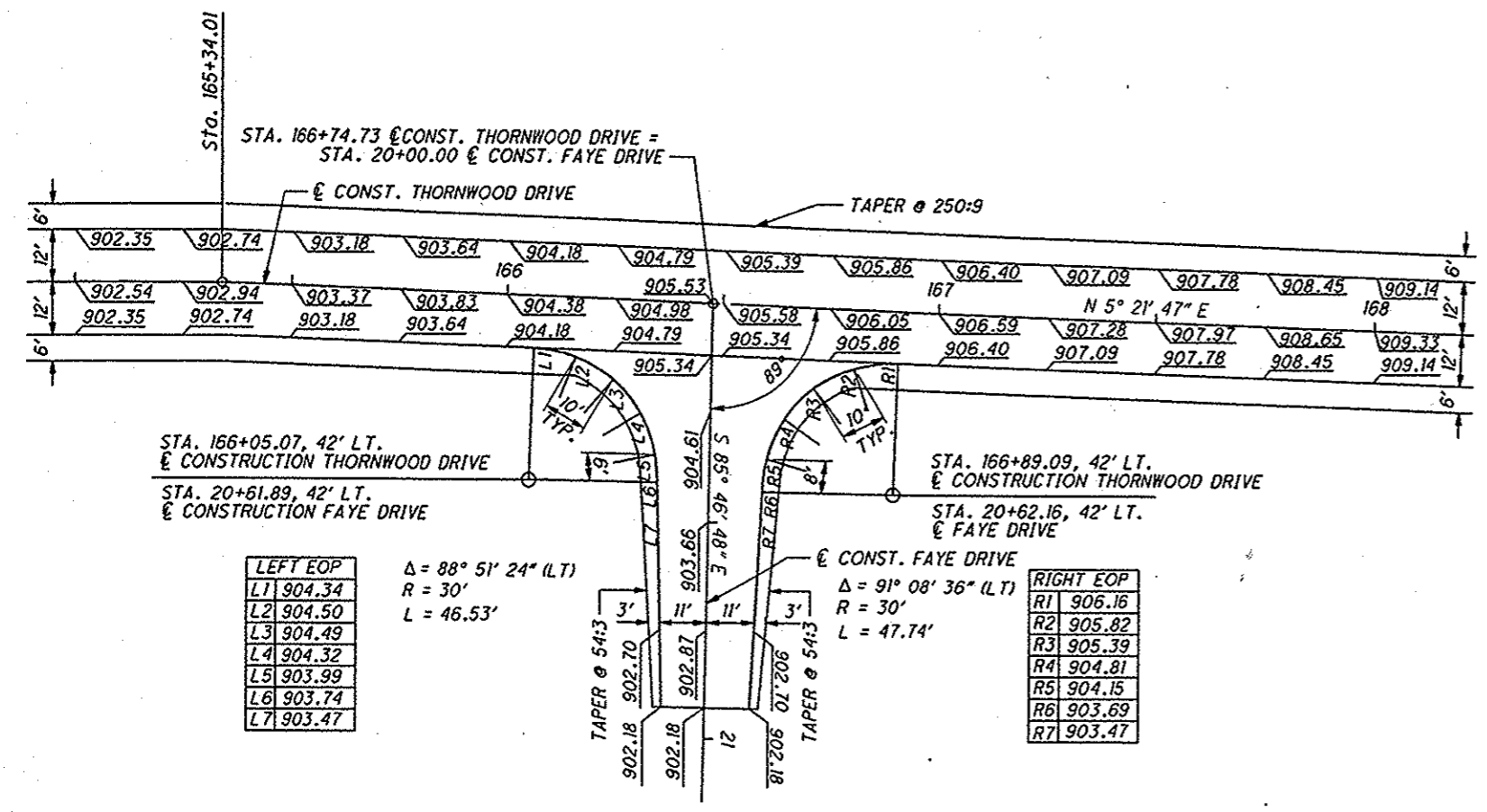


HORIZONTAL SCALE IN FEET

CALCULATED
CHECKED

INTERSECTION DETAILS FAYE DRIVE & RIVER ROAD CONNECTOR

LIC-THORNWOOD

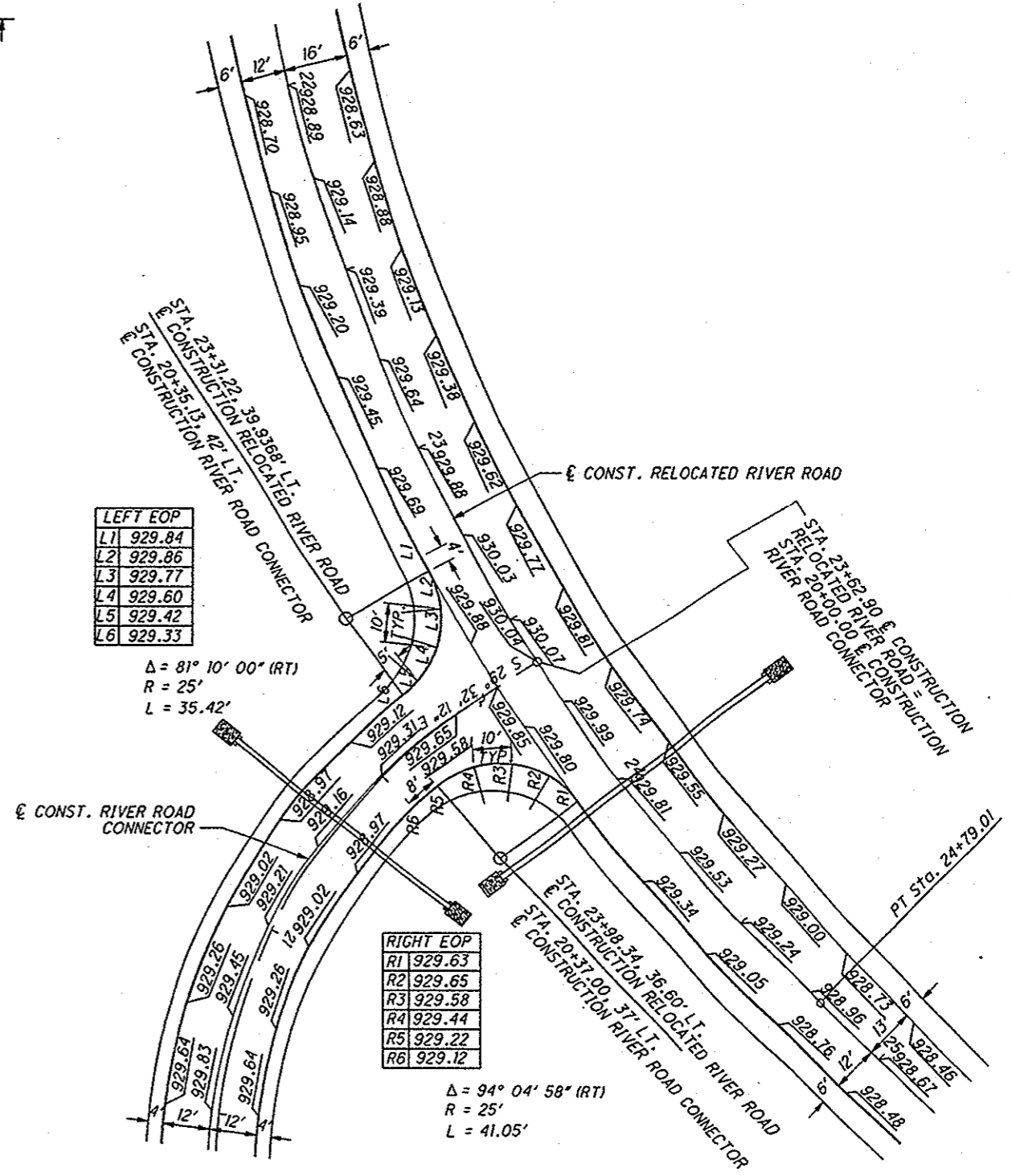


| LEFT EOP | |
|----------|--------|
| L1 | 904.34 |
| L2 | 904.50 |
| L3 | 904.49 |
| L4 | 904.32 |
| L5 | 903.99 |
| L6 | 903.74 |
| L7 | 903.47 |

Δ = 88° 51' 24" (LT)
R = 30'
L = 46.53'

| RIGHT EOP | |
|-----------|--------|
| R1 | 906.16 |
| R2 | 905.82 |
| R3 | 905.39 |
| R4 | 904.81 |
| R5 | 904.15 |
| R6 | 903.69 |
| R7 | 903.47 |

Δ = 91° 08' 36" (LT)
R = 30'
L = 47.74'



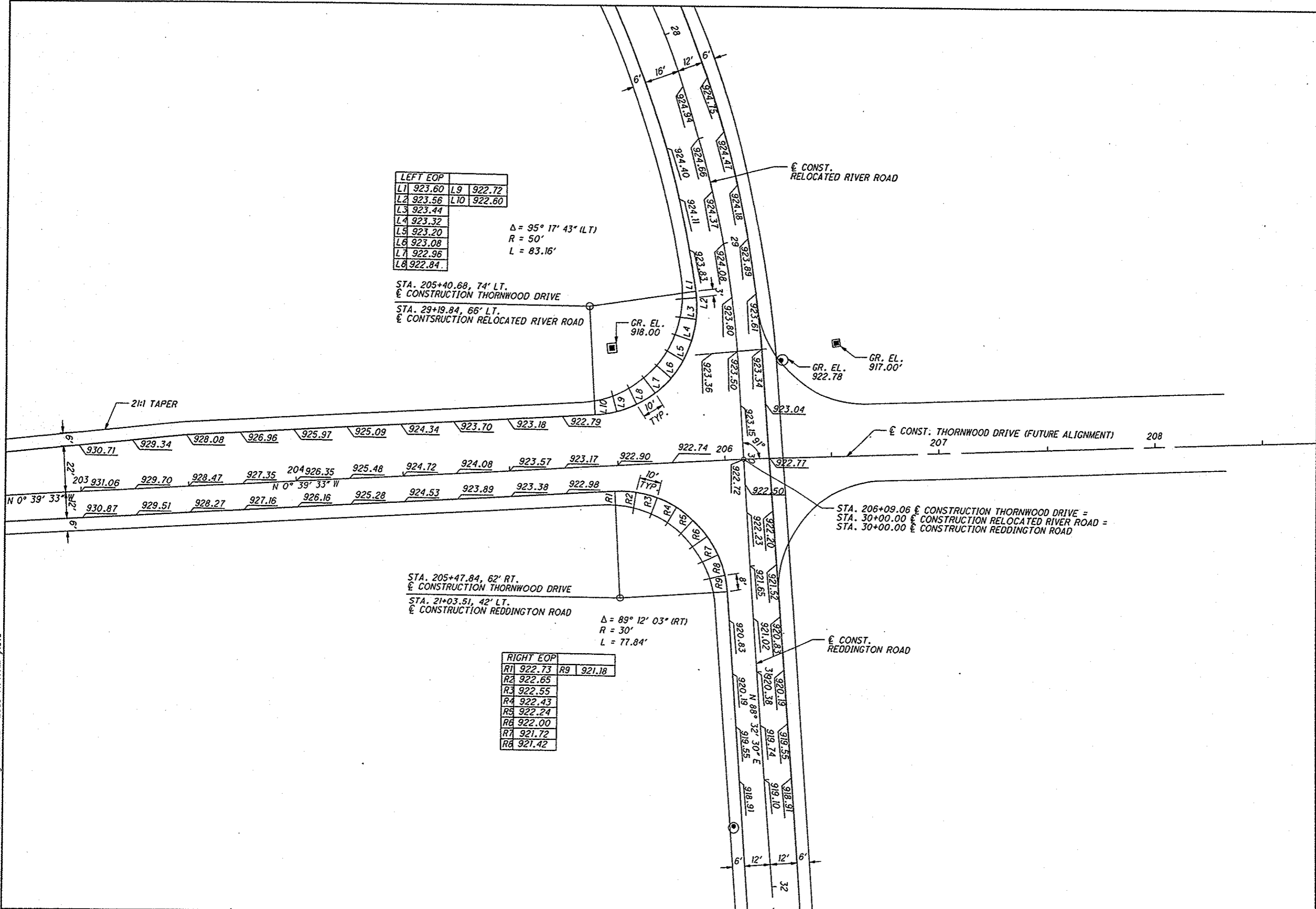
| LEFT EOP | |
|----------|--------|
| L1 | 929.84 |
| L2 | 929.86 |
| L3 | 929.77 |
| L4 | 929.60 |
| L5 | 929.42 |
| L6 | 929.33 |

Δ = 81° 10' 00" (RT)
R = 25'
L = 35.42'

| RIGHT EOP | |
|-----------|--------|
| R1 | 929.63 |
| R2 | 929.65 |
| R3 | 929.58 |
| R4 | 929.44 |
| R5 | 929.22 |
| R6 | 929.12 |

Δ = 94° 04' 58" (RT)
R = 25'
L = 41.05'

IP_P:\WP\dms08268\78116\006.dgn 02-SEP-2009 11:47AM jfove



| LEFT EOP | |
|----------|--------|
| L1 | 923.60 |
| L2 | 923.56 |
| L3 | 923.44 |
| L4 | 923.32 |
| L5 | 923.20 |
| L6 | 923.08 |
| L7 | 922.96 |
| L8 | 922.84 |


Δ = 95° 17' 43" (LT)
R = 50'
L = 83.16'


STA. 205+40.68, 74' LT.
E CONSTRUCTION THORNWOOD DRIVE
STA. 29+19.84, 66' LT.
E CONSTRUCTION RELOCATED RIVER ROAD

STA. 205+47.84, 62' RT.
E CONSTRUCTION THORNWOOD DRIVE
STA. 21+03.51, 42' LT.
E CONSTRUCTION REDDINGTON ROAD

Δ = 89° 12' 03" (RT)
R = 30'
L = 77.84'

| RIGHT EOP | |
|-----------|--------|
| R1 | 922.73 |
| R2 | 922.65 |
| R3 | 922.55 |
| R4 | 922.43 |
| R5 | 922.24 |
| R6 | 922.00 |
| R7 | 921.72 |
| R8 | 921.42 |





 HORIZONTAL SCALE IN FEET

CALCULATED

CHECKED

INTERSECTION DETAIL

THORNWOOD AND RELOCATED RIVER ROAD

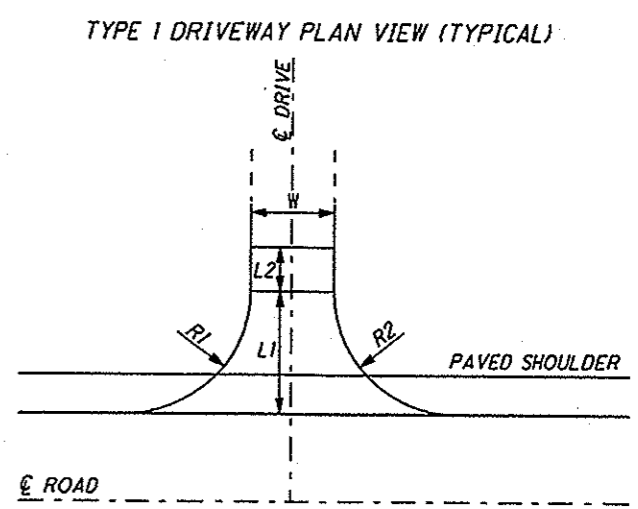
LIC-THORNWOOD

263

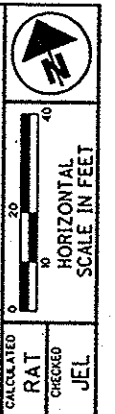
285

IP_PWP: dms08268\781160003.dgn 02-SEP-2009 7:41AM Flove

| 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 E) | R2 (RIGHT SIDE RADIUS OF DRIVE LOOKING FROM E) | CADD GENERATED SURFACE AREA | | | | | | | | | | | |
|--|---------------|-----------|------|------------|-------------|------------------|---------------------|----------|---|--|-----------------------------|-----|-----|---------|---|---|---|---|---|---|---|---|
| | | | | | DEG. | FT. | FT. | FT. | FT. | FT. | FT. | FT. | FT. | SO. FT. | | | | | | | | |
| THORNWOOD DRIVE | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | 14+57.84 | LT. | FIELD | 90 | 26 | 30 | 20 | 25 | 25 | | | | | | | | | | | | |
| 16 | | 14+58.13 | RT. | FIELD | 89 | 27 | 11 | 20 | 25 | 25 | | | | | | | | | | | | |
| 17 | | 16+49.16 | RT. | CONC. | 91 | 26 | 12 | 20 | 25 | 25 | | | | | | | | | | | | |
| 25 | | 55+24.44 | LT. | GRAV. | 87 | 24 | 13 | 39 | 25 | 25 | | | | | | | | | | | | |
| 25 | | 59+59.34 | LT. | GRAV. | 89 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 26 | | 63+87.67 | LT. | GRAV. | 89 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 27 | | 66+59.90 | LT. | GRAV. | 74 | 33 | 7 | 12 | 25 | 25 | | | | | | | | | | | | |
| 27 | | 67+86.02 | LT. | GRAV. | 90 | 27 | 11 | 57 | 25 | 25 | | | | | | | | | | | | |
| 28 | | 70+52.69 | LT. | GRAV. | 83 | 29 | 9 | 12 | 25 | 25 | | | | | | | | | | | | |
| 28 | | 71+01.33 | RT. | FIELD | 91 | 25 | 13 | 17 | 25 | 25 | | | | | | | | | | | | |
| 28 | | 71+60.75 | LT. | GRAV. | 90 | 27 | 11 | 12 | 25 | 25 | | | | | | | | | | | | |
| 29 | | 75+06.56 | RT. | ASPH. | 91 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 29 | | 76+25.06 | RT. | ASPH. | 90 | 26 | 16 | 15 | 25 | 25 | | | | | | | | | | | | |
| 29 | | 79+33.23 | LT. | GRAV. | 109 | 34 | 9 | 22 | 25 | 25 | | | | | | | | | | | | |
| 29 | | 79+43.70 | RT. | CONC. | 89 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 29 | | 79+72.01 | RT. | CONC. | 92 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 29 | | 79+84.21 | LT. | GRAV. | 89 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 30 | | 80+27.65 | RT. | GRAV. | 92 | 28 | 11 | 20 | 25 | 25 | | | | | | | | | | | | |
| 30 | | 81+24.80 | RT. | GRAV. | 92 | 27 | 11 | 20 | 25 | 25 | | | | | | | | | | | | |
| 30 | | 83+65.48 | RT. | GRAV. | 91 | 26 | 12 | 13 | 25 | 25 | | | | | | | | | | | | |
| 31 | | 85+02.32 | RT. | GRAV. | 93 | 27 | 11 | 14 | 25 | 25 | | | | | | | | | | | | |
| 31 | | 87+50.44 | RT. | GRAV. | 78 | 31 | 8 | 12 | 25 | 25 | | | | | | | | | | | | |
| 31 | | 88+36.42 | RT. | ASPH. | 91 | 26 | 12 | 20 | 25 | 25 | | | | | | | | | | | | |
| 31 | | 89+97.67 | RT. | GRAV. | 90 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 33 | | 97+82.74 | LT. | GRAV. | 90 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 33 | | 97+99.19 | RT. | GRAV. | 91 | 26 | 15 | 12 | 25 | 25 | | | | | | | | | | | | |
| 33 | | 98+45.50 | LT. | GRAV. | 85 | 28 | 39 | 12 | 25 | 25 | | | | | | | | | | | | |
| 34 | | 101+13.80 | LT. | GRAV. | 90 | 26 | 50 | 14 | 25 | 25 | | | | | | | | | | | | |
| 34 | | 101+51.43 | RT. | ASPH. | 92 | 27 | 12 | 42 | 25 | 25 | | | | | | | | | | | | |
| 35 | | 105+74.34 | RT. | GRAV. | 86 | 26 | 12 | 12 | 25 | 25 | | | | | | | | | | | | |
| 36 | | 111+22.07 | RT. | ASPH. | 88 | 26 | 7 | 34 | 25 | 25 | | | | | | | | | | | | |
| 36 | | 113+07.11 | LT. | GRAV. | 90 | 26 | 12 | 17 | 25 | 25 | | | | | | | | | | | | |
| 36 | | 114+76.80 | LT. | GRAV. | 94 | 28 | 10 | 12 | 25 | 25 | | | | | | | | | | | | |
| 38 | | 120+94.00 | RT. | ASPH. | 88 | 27 | 10 | 18 | 25 | 25 | | | | | | | | | | | | |
| 38 | | 122+15.71 | RT. | ASPH. | 89 | 26 | 10 | 13 | 25 | 25 | | | | | | | | | | | | |
| 38 | | 122+50.63 | RT. | ASPH. | 89 | 26 | 0 | 26 | 25 | 25 | | | | | | | | | | | | |
| 38 | | 124+36.21 | RT. | CONC. | 89 | 26 | 9 | 22 | 25 | 25 | | | | | | | | | | | | |
| 39 | | 127+32.44 | RT. | ASPH. | 92 | 27 | 39 | 12 | 25 | 25 | | | | | | | | | | | | |
| 39 | | 128+90.51 | RT. | ASPH. | 89 | 26 | 7 | 12 | 25 | 25 | | | | | | | | | | | | |
| 39 | | 129+00.57 | LT. | GRAV. | 90 | 37 | 0 | 24 | 34 | 21 | | | | | | | | | | | | |
| 40 | | 132+99.27 | LT. | GRAV. | 70 | 34 | 12 | 13 | 25 | 25 | | | | | | | | | | | | |
| 42 | | 144+70.80 | LT. | GRAV. | 92 | 27 | 8 | 39 | 25 | 25 | | | | | | | | | | | | |
| 45 | | 157+24.43 | RT. | GRAV. | 90 | 26 | 10 | 12 | 25 | 25 | | | | | | | | | | | | |
| 45 | | 158+71.62 | RT. | GRAV. | 86 | 27 | 19 | 12 | 25 | 25 | | | | | | | | | | | | |
| 45 | | 159+89.33 | RT. | GRAV. | 90 | 27 | 19 | 12 | 30 | 25 | | | | | | | | | | | | |
| 46 | | 160+83.70 | RT. | GRAV. | 88 | 26 | 20 | 18 | 25 | 25 | | | | | | | | | | | | |
| 46 | | 161+56.82 | RT. | GRAV. | 91 | 26 | 20 | 12 | 25 | 25 | | | | | | | | | | | | |
| 47 | | 165+07.47 | RT. | GRAV. | 82 | 26 | 20 | 12 | 25 | 25 | | | | | | | | | | | | |
| 47 | | 167+08.24 | LT. | GRAV. | 90 | 27 | 0 | 12 | 25 | 25 | | | | | | | | | | | | |
| 47 | | 167+59.75 | LT. | GRAV. | 90 | 25 | 0 | 13 | 24 | 25 | | | | | | | | | | | | |
| 48 | | 171+41.06 | RT. | GRAV. | 87 | 27 | 40 | 12 | 25 | 25 | | | | | | | | | | | | |
| 48 | | 172+23.13 | LT. | CONC. | 87 | 27 | 18 | 16 | 25 | 25 | | | | | | | | | | | | |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



CALCULATED
 CHECKED
DRIVEWAY SUBSUMMARY
LIC-THORNWOOD
 264
 285



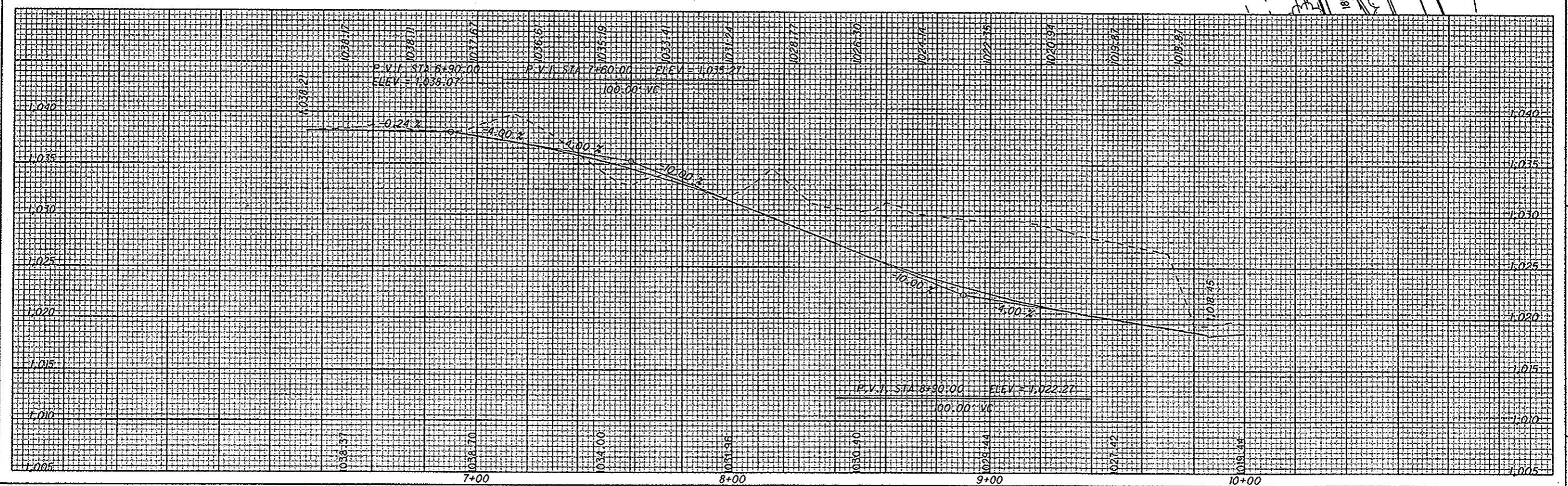
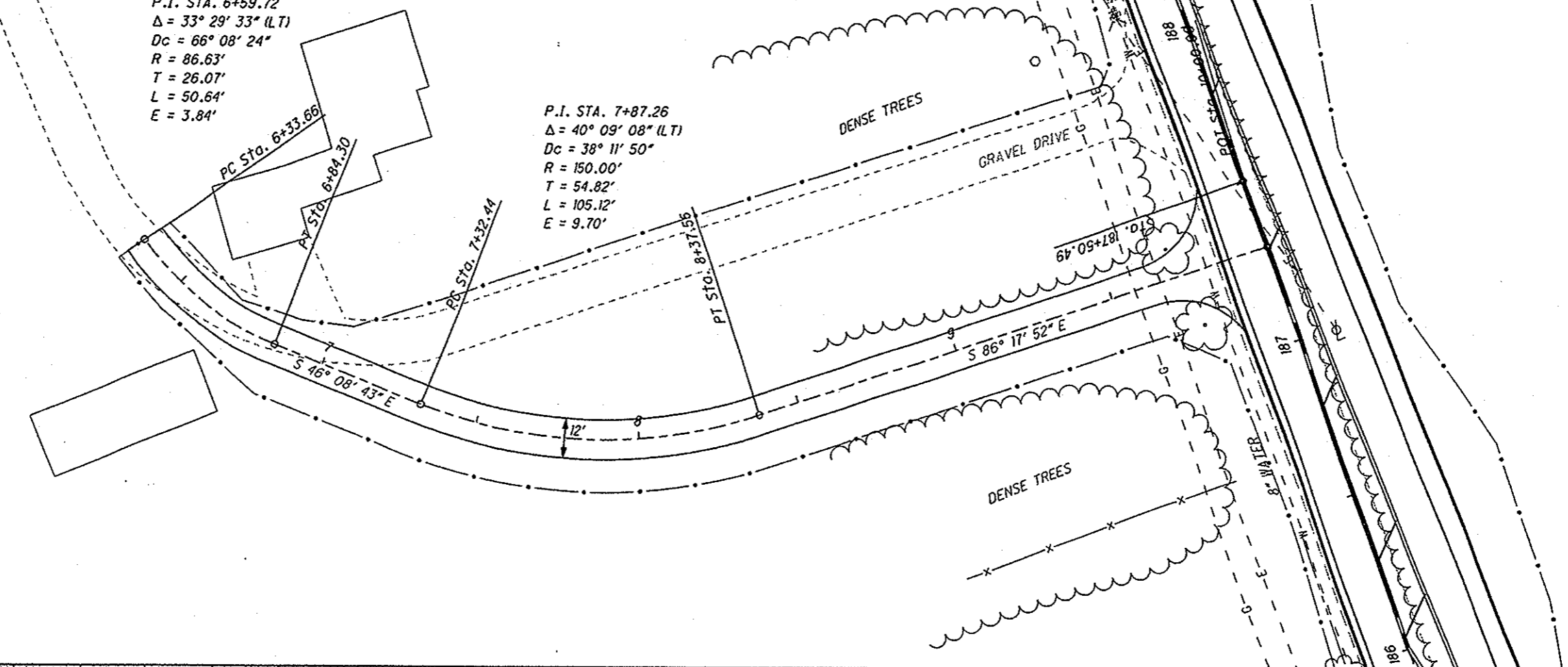
CALCULATED
 RAT
 CHECKED
 JEL

LIC-THORNWOOD
 DRIVE DETAIL
 STA. 187+29.27 LT.

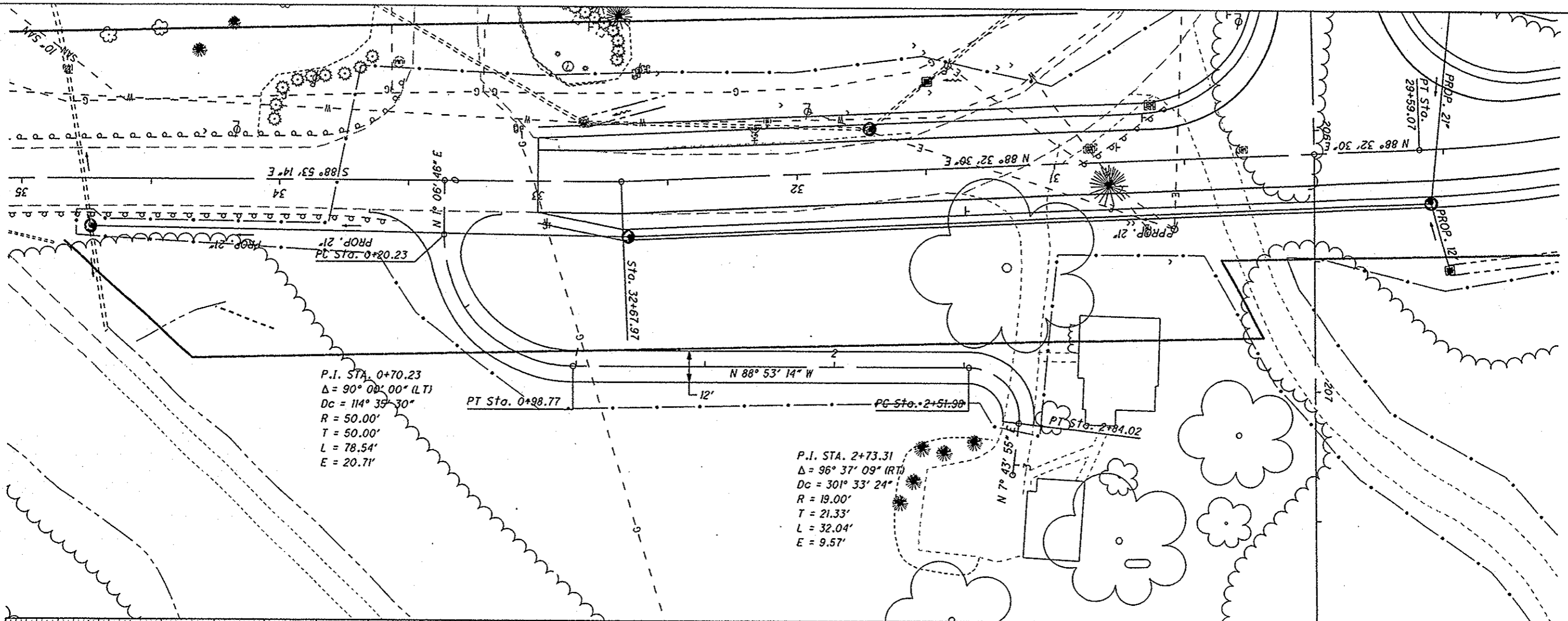
266
 285

P.I. STA. 6+59.72
 $\Delta = 33^\circ 29' 33''$ (LT)
 $Dc = 66^\circ 08' 24''$
 $R = 86.63'$
 $T = 26.07'$
 $L = 50.64'$
 $E = 3.84'$

P.I. STA. 7+87.26
 $\Delta = 40^\circ 09' 08''$ (LT)
 $Dc = 38^\circ 11' 50''$
 $R = 150.00'$
 $T = 54.82'$
 $L = 105.12'$
 $E = 9.70'$

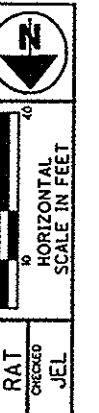
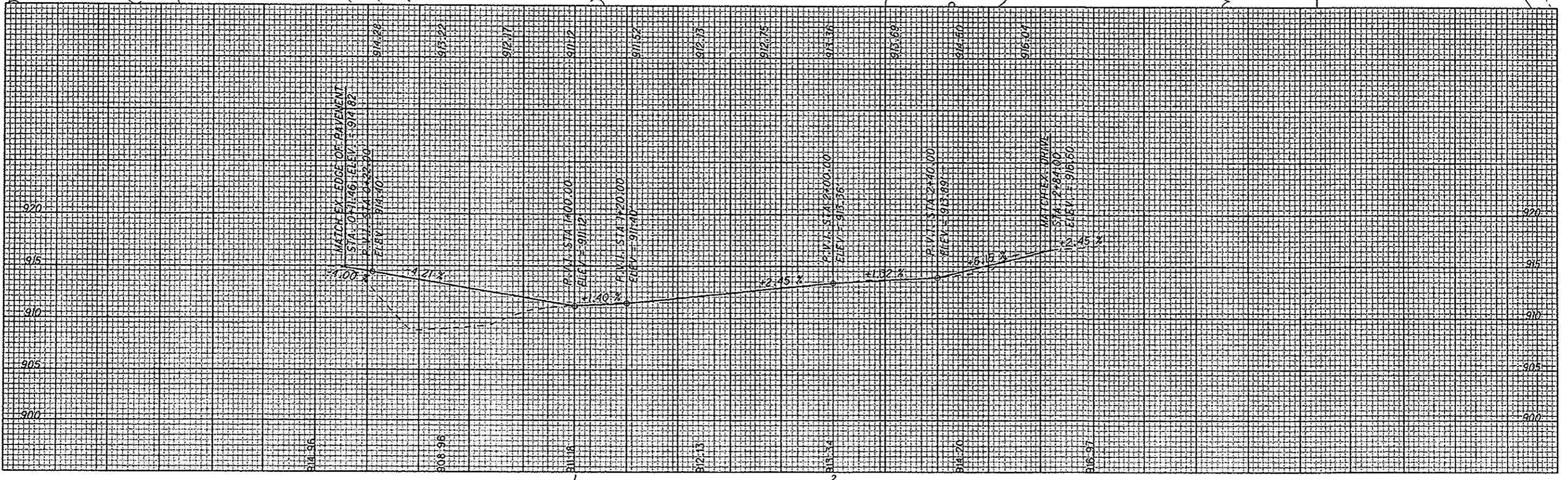


P:\PWP_dms08268\781160005.DGN 02-SEP-2009 7:41AM jrove



P.I. STA. 0+70.23
 $\Delta = 90^\circ 00' 00''$ (LT)
 $Dc = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 50.00'$
 $L = 78.54'$
 $E = 20.71'$

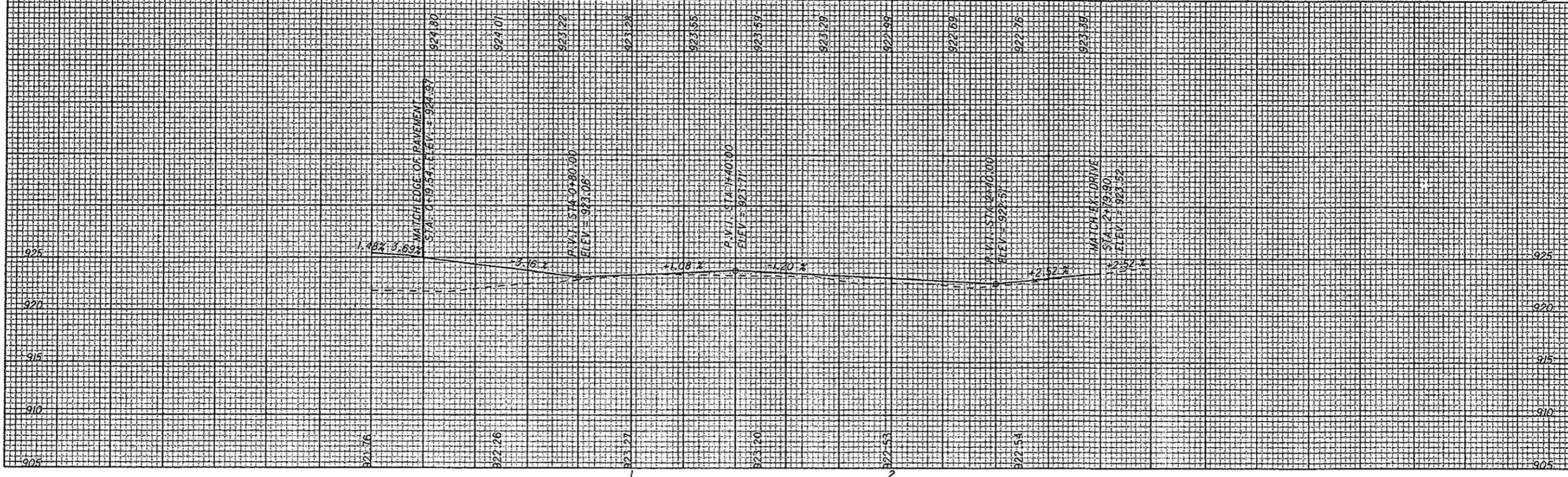
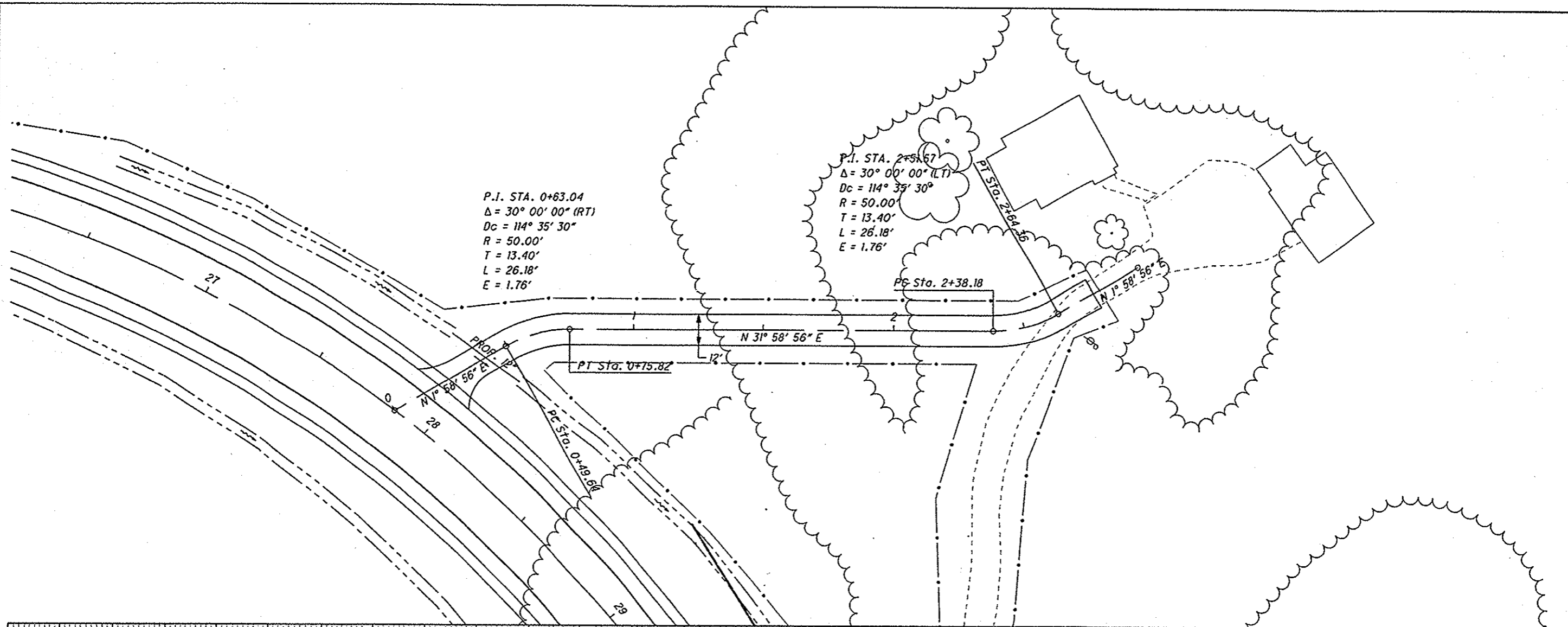
P.I. STA. 2+73.31
 $\Delta = 96^\circ 37' 09''$ (RT)
 $Dc = 301^\circ 33' 24''$
 $R = 19.00'$
 $T = 21.33'$
 $L = 32.04'$
 $E = 9.57'$



| | | | |
|------------|-----|---------|-----|
| CALCULATED | RAT | CHECKED | JEL |
|------------|-----|---------|-----|

DRIVE DETAIL
STA. 33+36.23 LT.

LIC-THORNWOOD



HORIZONTAL SCALE IN FEET

| | |
|------------|-----|
| CALCULATED | RAT |
| ORDERED | JEL |

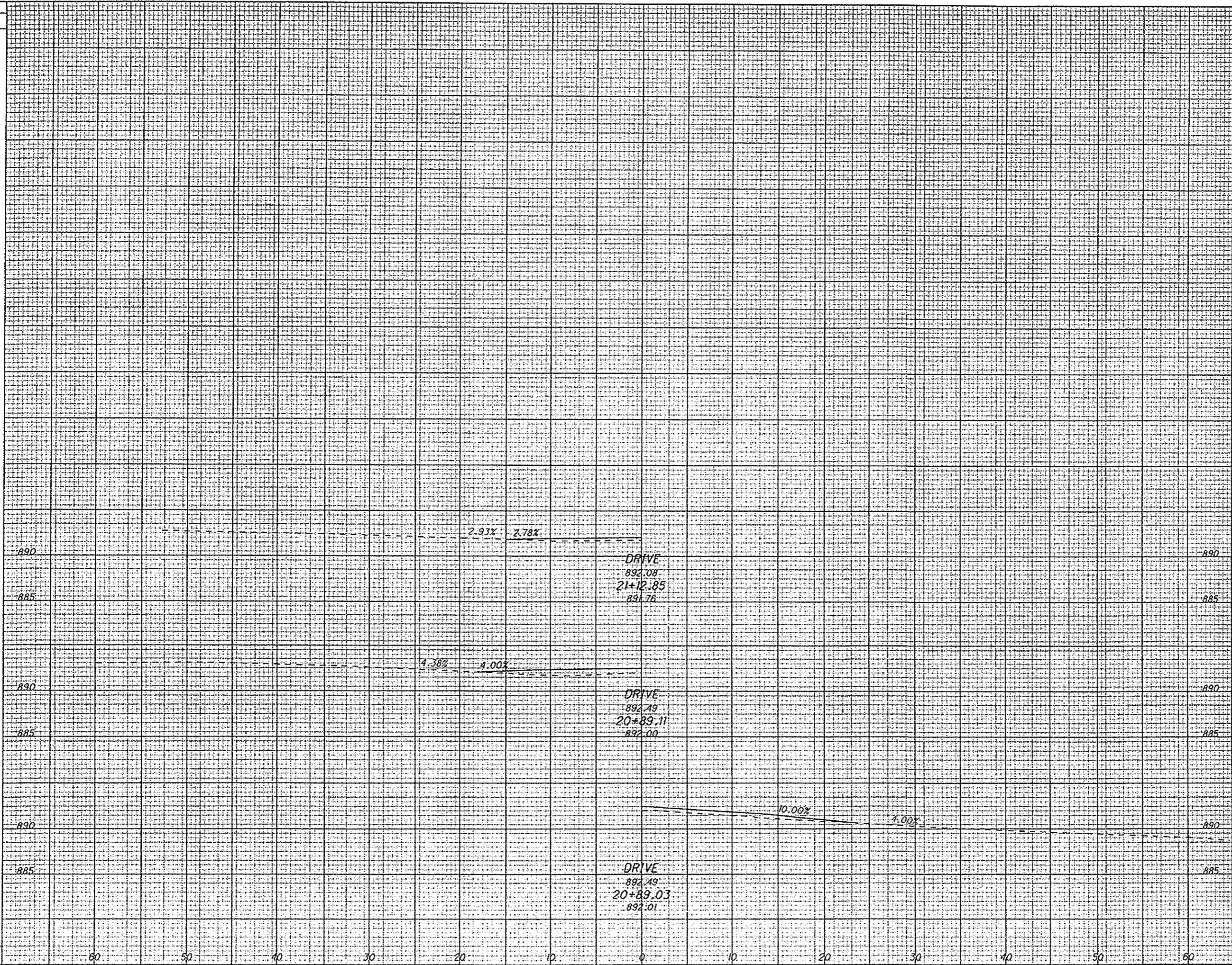
DRIVE DETAIL
STA. 27+85.37 LT.

LIC-THORNWOOD

IP_P:\WP.dms\08288\78116X5002.dgn 02-SEP-2009 7:42AM jllove

SEEDING

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

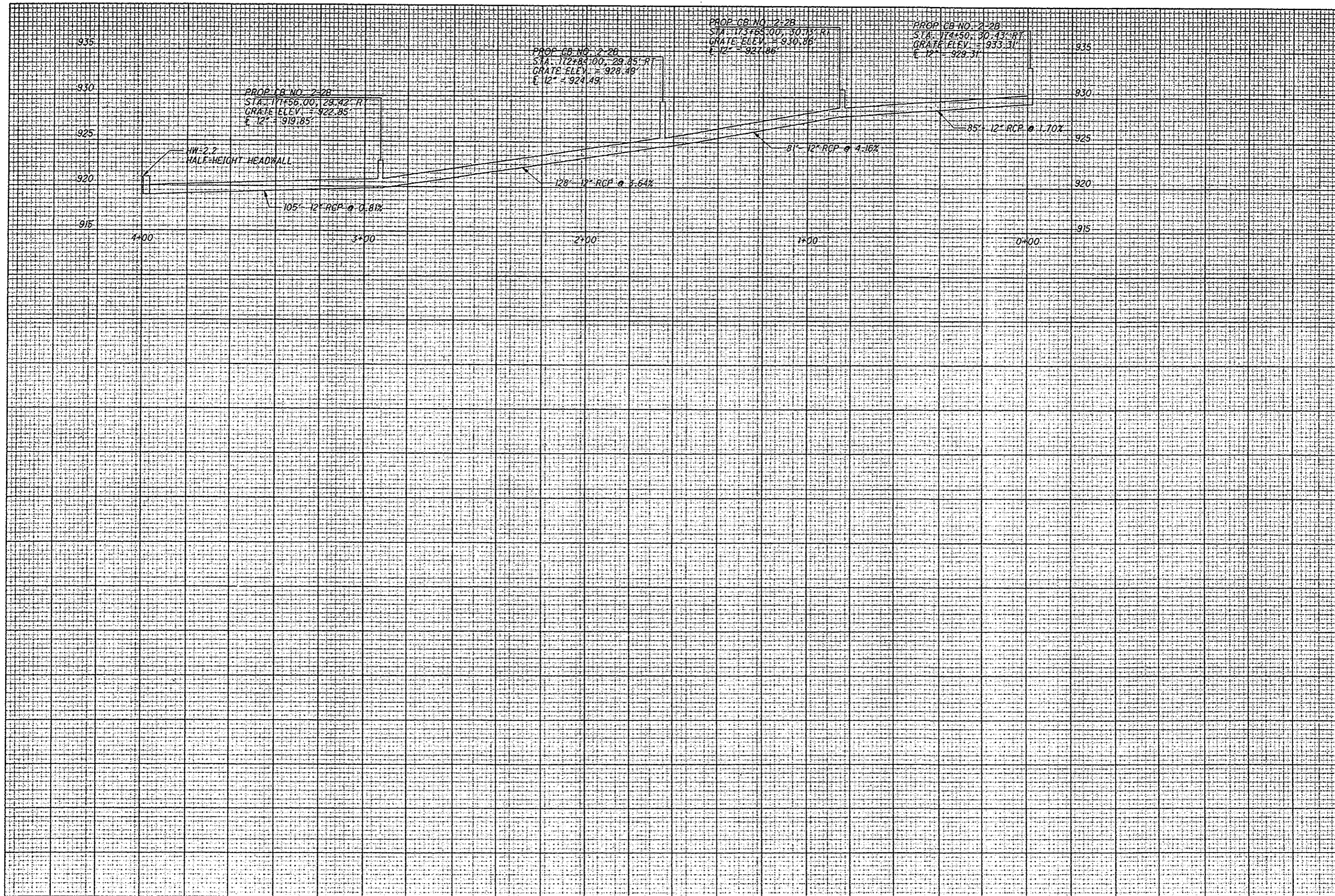


| END AREA | | VOLUME | | CALCULATED | JRL | CHECKED | JEL |
|----------|------|--------|------|------------|-----|---------|-----|
| CUT | FILL | CUT | FILL | | | | |
| | | | | | | | |

DRIVE PROFILES - IRVING WICK
STA. 20+89.03 TO STA. 21+12.85

LIC-THORNWOOD

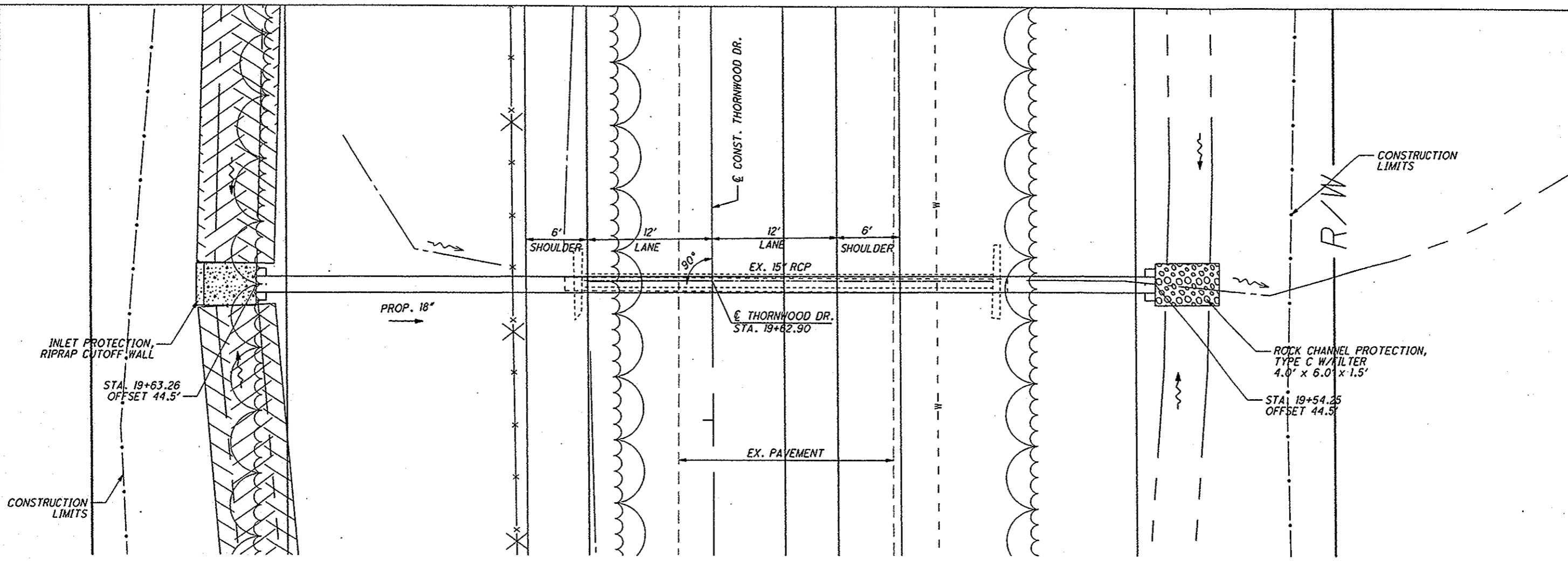
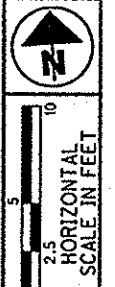
269
285



CALCULATED
MAS
CHECKED

STORM SEWER PROFILE

LIC-THORNWOOD

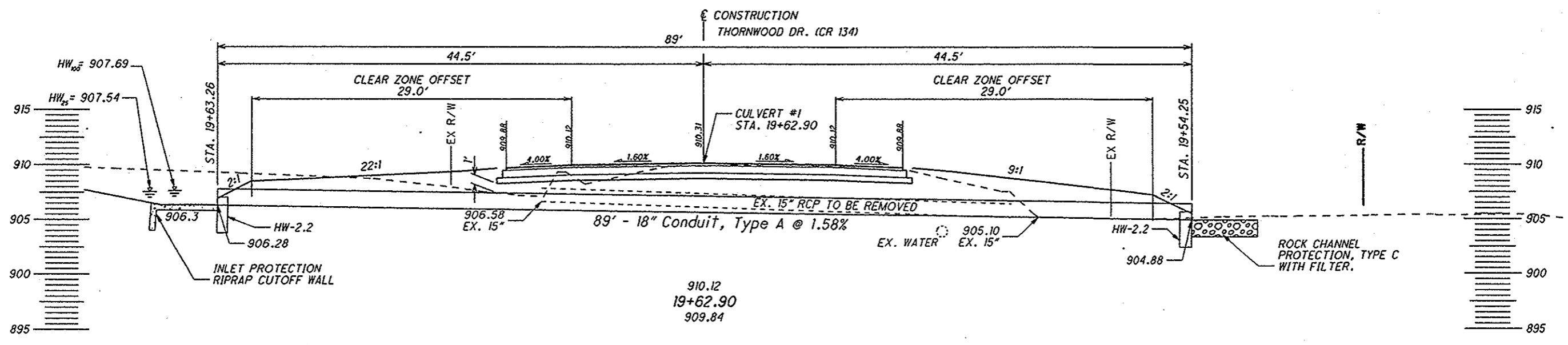


| EXISTING STRUCTURE |
|---|
| TYPE: 15" REINFORCED CONCRETE PIPE SKEW: 1° L.F. ALIGNMENT: TANGENT |

| PROPOSED STRUCTURE |
|--|
| TYPE: 18" CONCRETE PIPE SKEW: 0° L.F. ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|------------------------|
| DRAINAGE AREA: 5 ACRES |
| Q(25): 5.12 CFS |
| HW(25): 907.54 FT |
| V(25): 7.44 FT/S |
| Q(100): 6.18 CFS |
| HW(100): 907.69 FT |
| V(100): 7.82 FT/S |

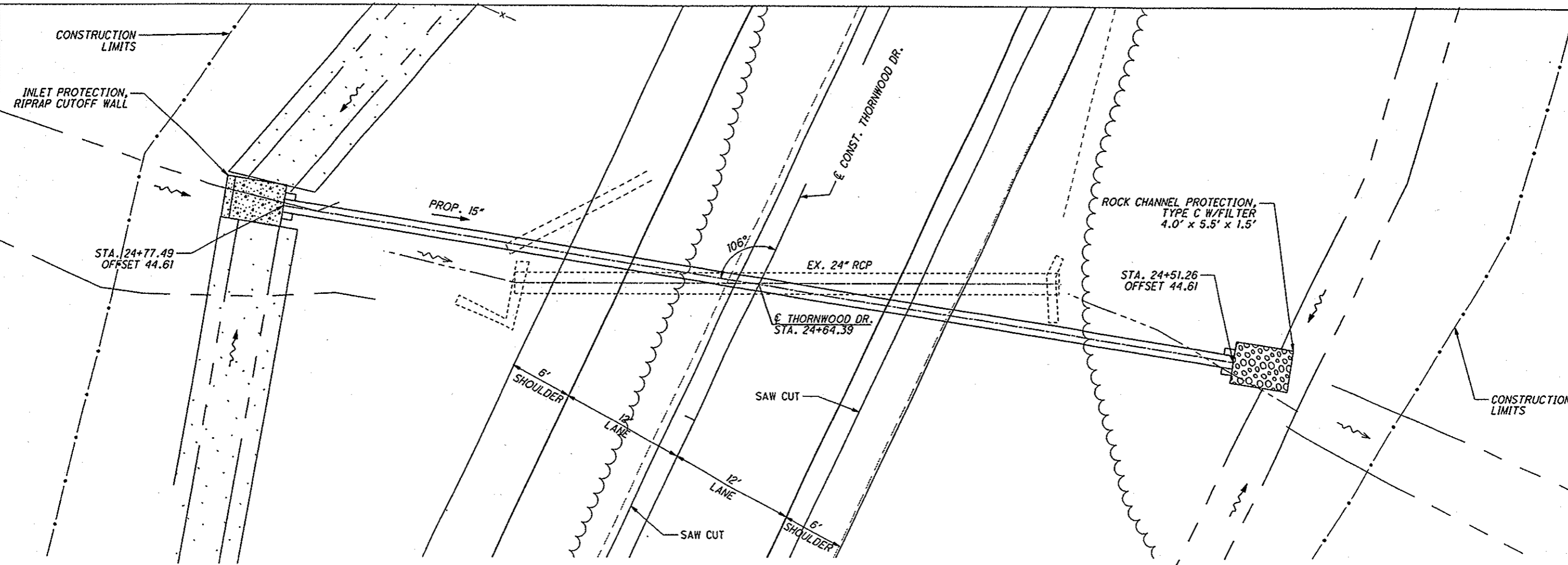
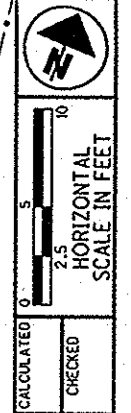
| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



IP_PWP:dms08245\78116DC001.dgn 02-SEP-2009 7:42AM jlove

CULVERT DETAIL
CULVERT #1 STA. 19+62.90

LIC-THORNWOOD

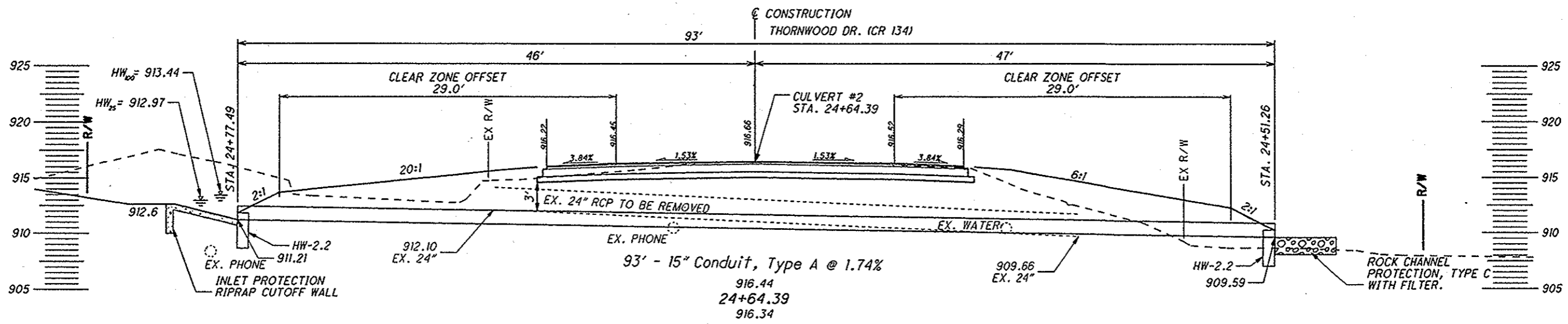


| EXISTING STRUCTURE |
|--|
| TYPE: 24" REINFORCED CONCRETE PIPE SKEW: 25° L.F. ALIGNMENT: TANGENT |

| PROPOSED STRUCTURE |
|---|
| TYPE: 15" CONCRETE PIPE SKEW: 16° L.F. ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|------------------------|
| DRAINAGE AREA: 6 ACRES |
| Q(25): 6.58 CFS |
| HW(25): 912.97 FT |
| V(25): 8.18 FT/S |
| Q(100): 8.14 CFS |
| HW(100): 913.44 FT |
| V(100): 8.49 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |

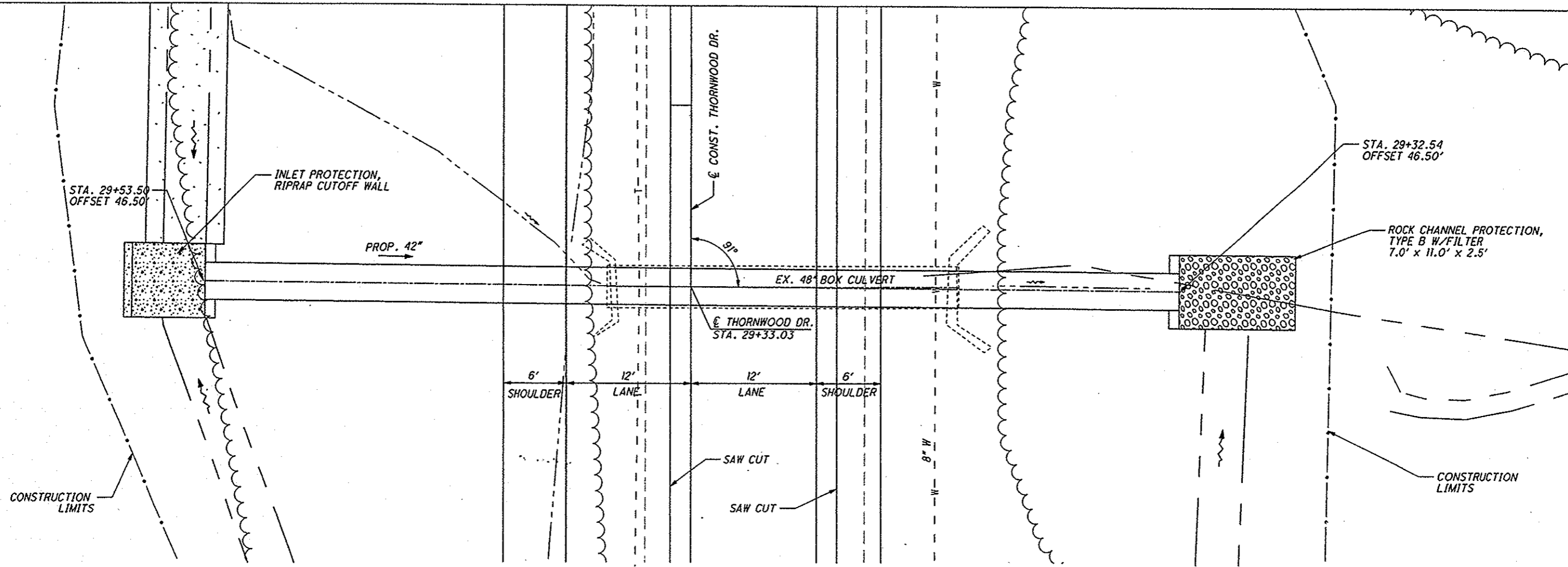


IP_PWP: dms08245\781160C002.dgn 02-SEP-2009 7:42AM jrlvov

CULVERT DETAIL
CULVERT #2 STA. 24+64.39

LIC-THORNWOOD

272
 285

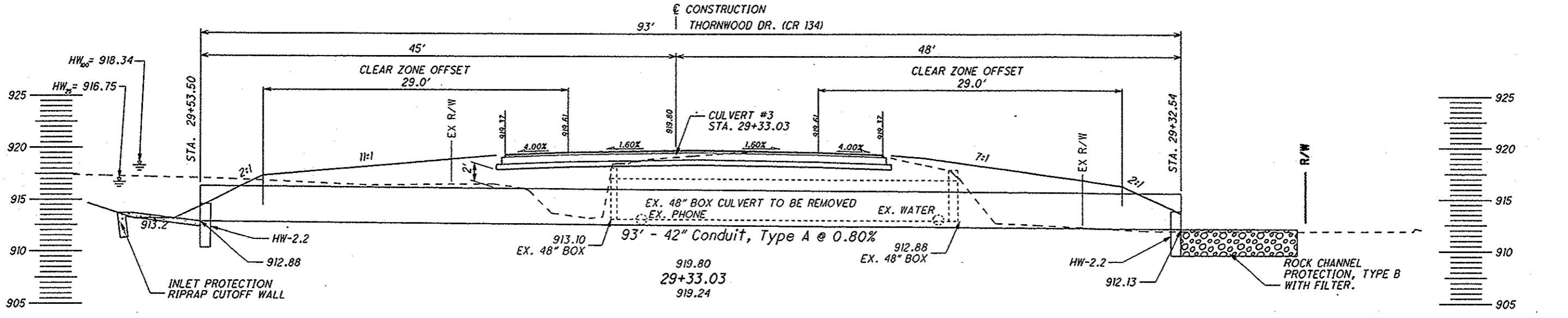


| EXISTING STRUCTURE |
|---|
| TYPE: 48" CONCRETE BOX SKEW: 0° L.F. ALIGNMENT: TANGENT |

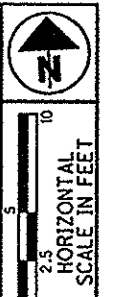
| PROPOSED STRUCTURE |
|--|
| TYPE: 42" CONCRETE PIPE SKEW: 0° L.F. ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|--|
| DRAINAGE AREA: 35 ACRES Q(25): 65 CFS HW(25): 916.75 FT V(25): 10.88 FT/S Q(100): 95 CFS HW(100): 918.34 FT V(100): 10.80 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX XXXXXX XXXXX XXXXX |



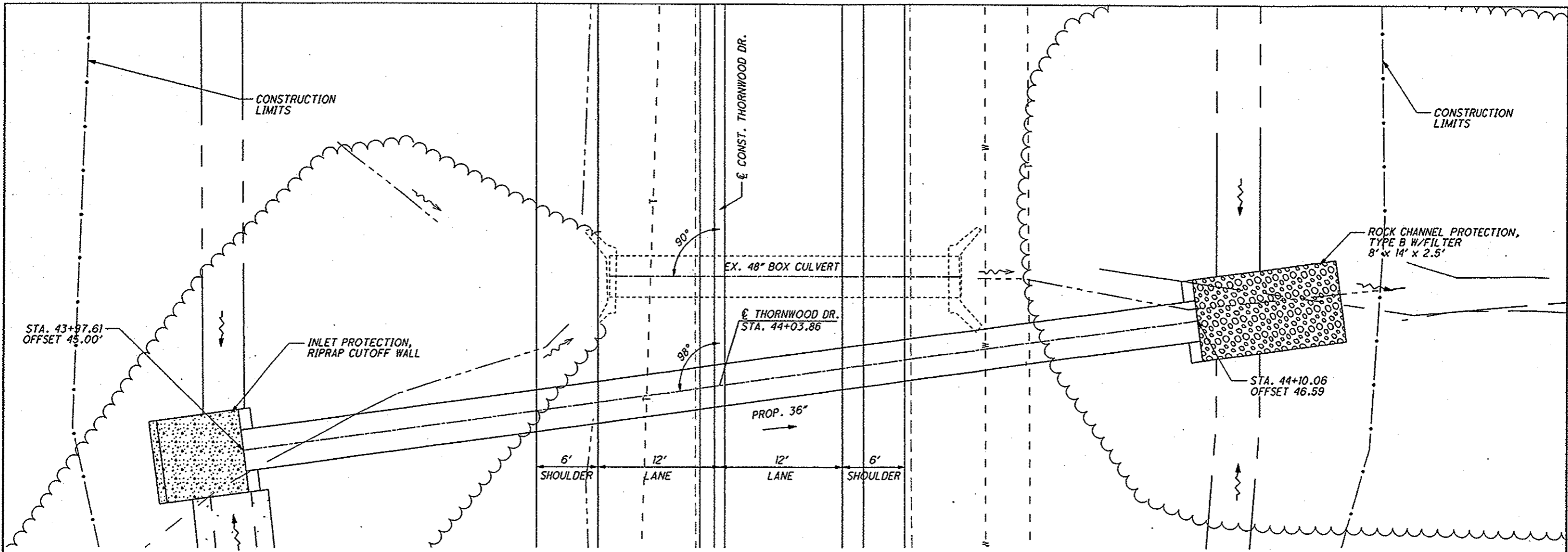
IP_PWP:dms08245\781160003.dgn 02-SEP-2009 7:42AM jlove



CALCULATED
CHECKED

CULVERT DETAIL
CULVERT #4 STA. 44+03.86

LIC-THORNWOOD
274
285

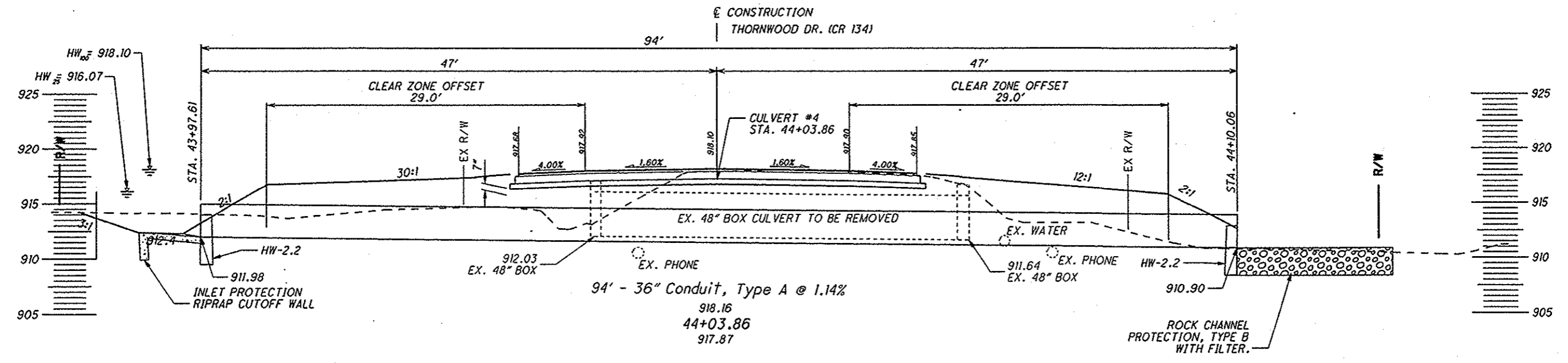


| EXISTING STRUCTURE |
|---|
| TYPE: 48" CONCRETE BOX SKEW: 0° L.F. ALIGNMENT: TANGENT |

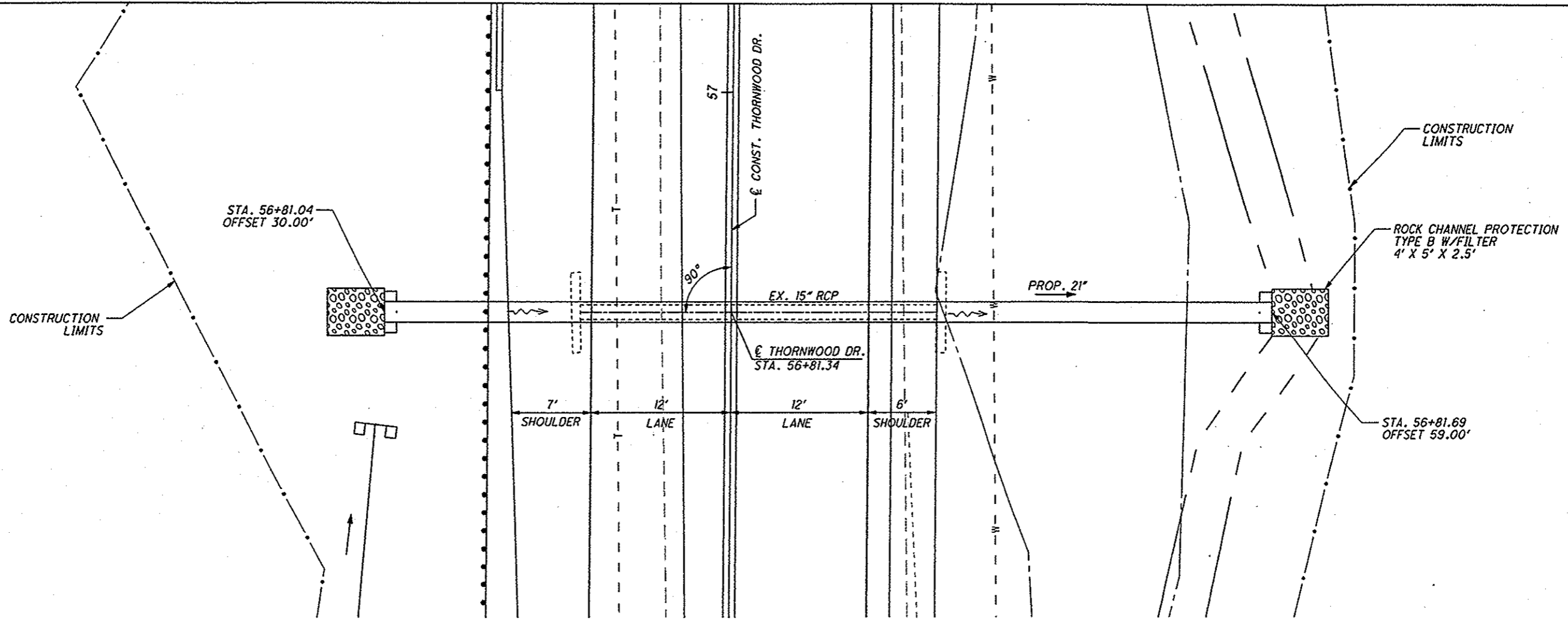
| PROPOSED STRUCTURE |
|--|
| TYPE: 48" CONCRETE PIPE SKEW: 8° L.F. ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|-------------------------|
| DRAINAGE AREA: 43 ACRES |
| Q(25): 70 CFS |
| HW(25): 916.07 FT |
| V(25): 12.69 FT/S |
| Q(100): 105 CFS |
| HW(100): 918.10 FT |
| V(100): 13.61 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



IP_PWP:dms08245\78116DC004.dgn 02-SEP-2009 7:43AM jlove

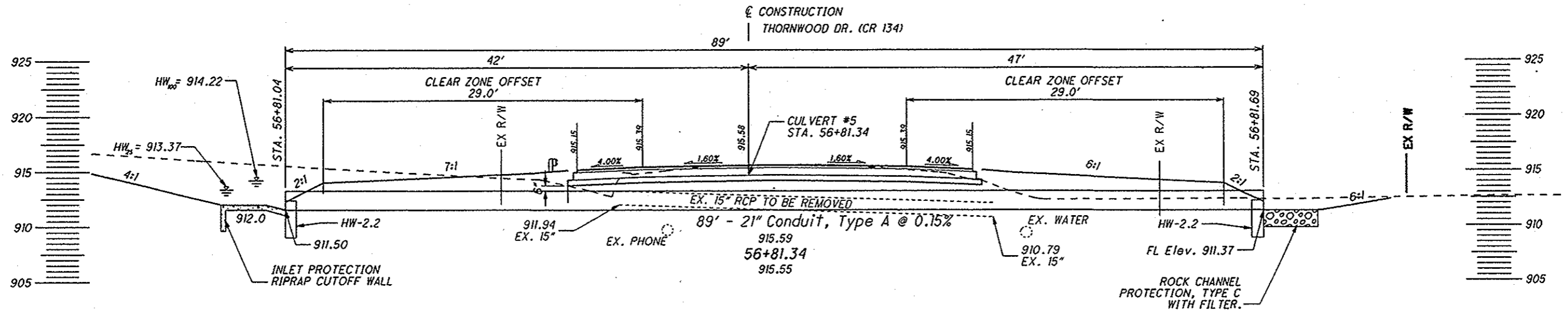


| EXISTING STRUCTURE |
|------------------------------------|
| TYPE: 15" REINFORCED CONCRETE PIPE |
| SKEW: 0° L.F. |
| ALIGNMENT: TANGENT |

| PROPOSED STRUCTURE |
|-------------------------|
| TYPE: 21" CONCRETE PIPE |
| SKEW: 0° L.F. |
| ALIGNMENT: TANGENT |

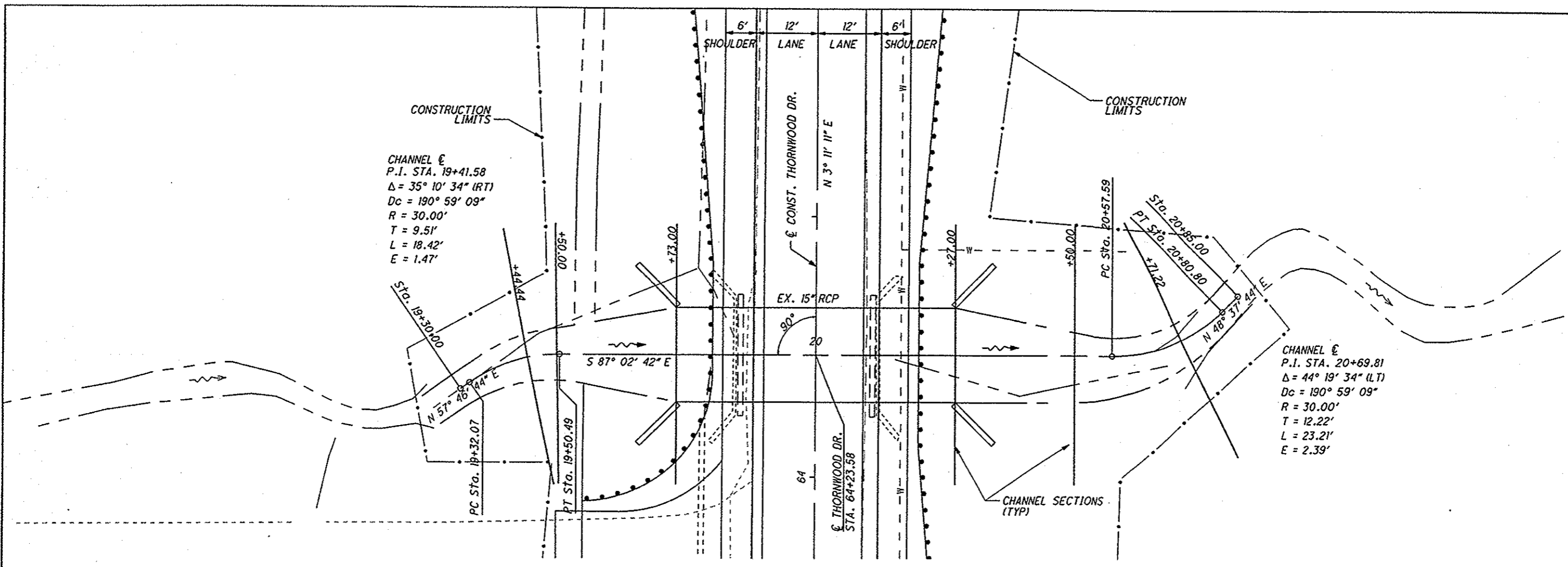
| HYDRAULIC DESIGN DATA |
|------------------------|
| DRAINAGE AREA: 6 ACRES |
| Q(25): 10 CFS |
| HW(25): 913.37 FT |
| V(25): 5.80 FT/S |
| Q(100): 15 CFS |
| HW(100): 914.22 FT |
| V(100): 7.11 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



CULVERT DETAIL
CULVERT #5 STA. 56+81.34

LIC-THORNWOOD

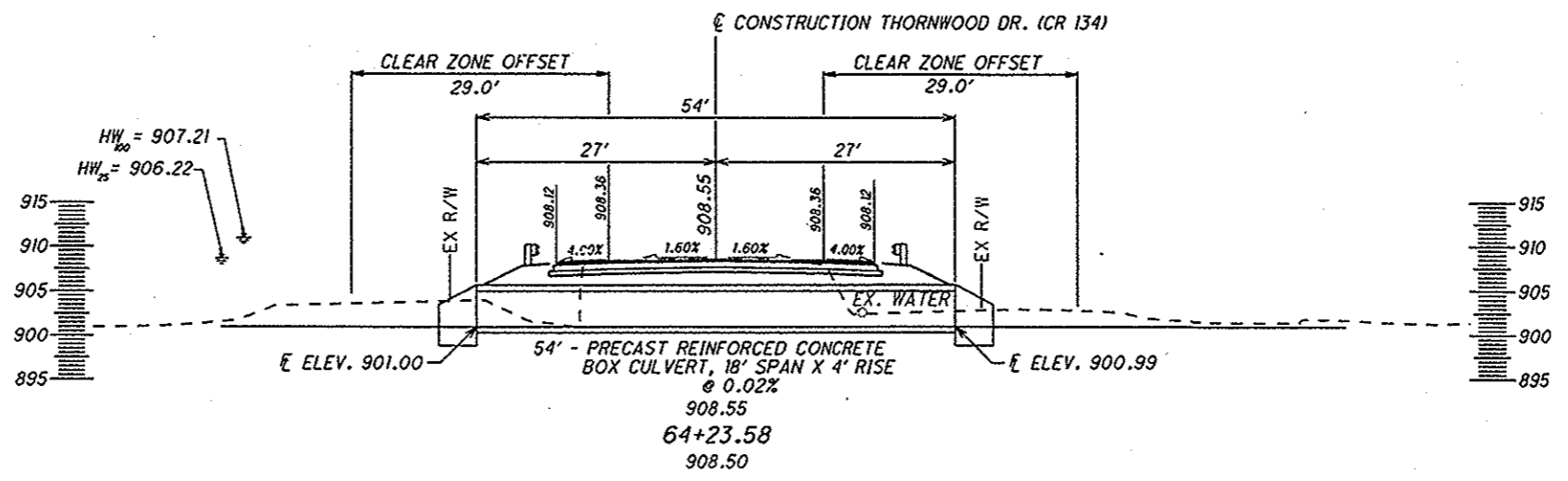


| EXISTING STRUCTURE |
|-------------------------------------|
| TYPE: 22' SPAN CONCRETE SLAB BRIDGE |
| SFN: 4561708 |
| SKEW: 0° L.F. |
| ALIGNMENT: TANGENT |

| PROPOSED STRUCTURE |
|---------------------------|
| TYPE: 18'X4' CONCRETE BOX |
| SKEW: 0° L.F. |
| ALIGNMENT: TANGENT |

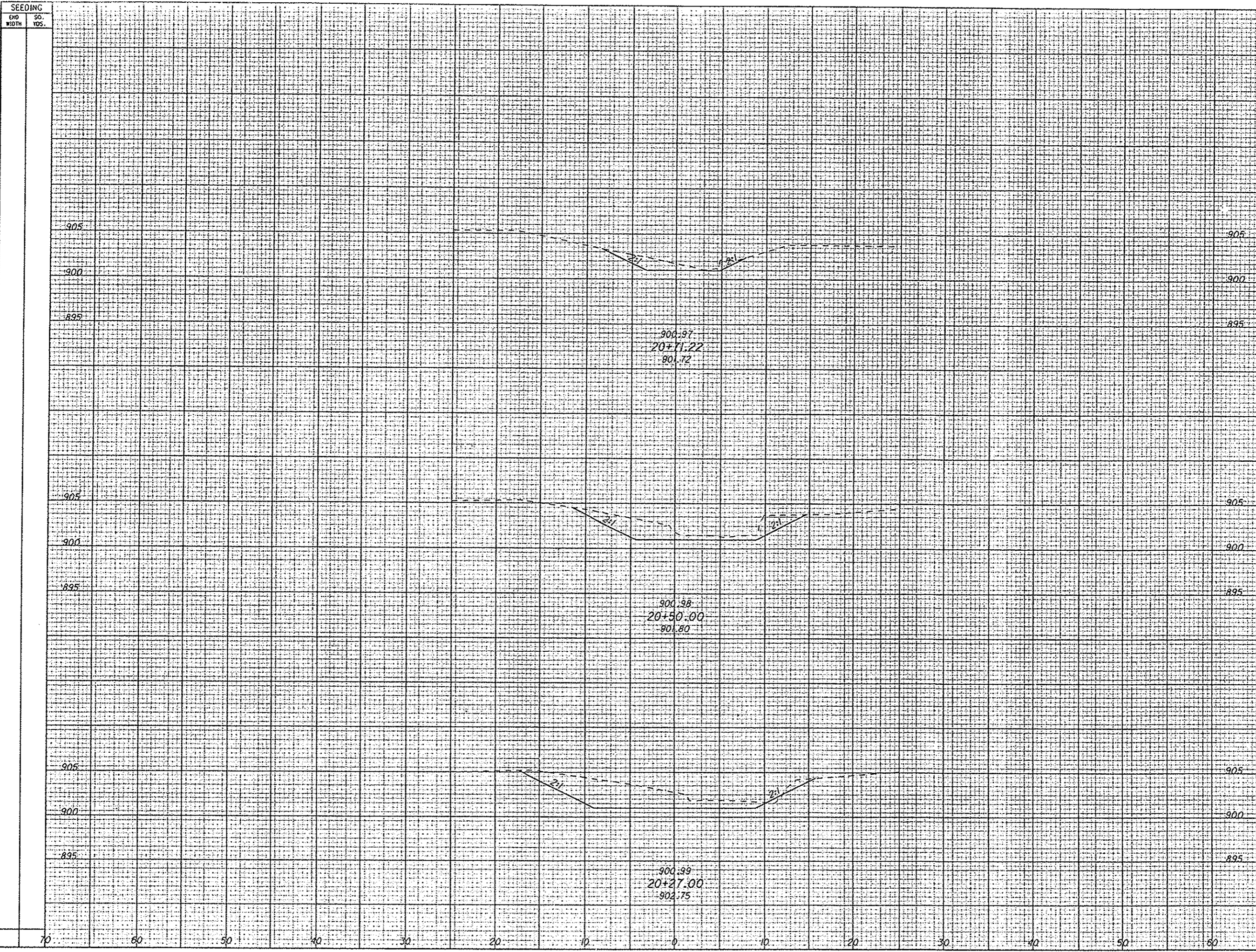
| HYDRAULIC DESIGN DATA |
|--------------------------|
| DRAINAGE AREA: 512 ACRES |
| Q(25): 332 CFS |
| HW(25): 906.22 FT |
| V(25): 2.26 FT/S |
| Q(100): 471 CFS |
| HW(100): 907.21 FT |
| V(100): 1.93 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



IP_PWP_dms08245\78116DC006.dgn 02-SEP-2009 7:43AM jlove

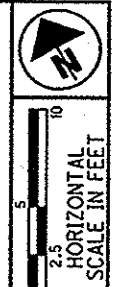
IP_P:\WP-dms08245\78116XD001.dgn 02-SEP-2009 7:43AM jlove



| SEEDING | | END AREA | | VOLUME | | CALCULATED RAT | CHECKED JEL |
|-----------|----------|----------|------|--------|------|----------------|-------------|
| END WIDTH | SO. YDS. | CUT | FILL | CUT | FILL | | |
| 905 | | | | | | | |
| 900 | | | | | | | |
| 895 | | | | | | | |
| 905 | | | | | | | |
| 900 | | | | | | | |
| 895 | | | | | | | |
| 905 | | | | | | | |
| 900 | | | | | | | |
| 895 | | | | | | | |
| 905 | | | | | | | |
| 900 | | | | | | | |
| 895 | | | | | | | |
| 905 | | | | | | | |
| 900 | | | | | | | |
| 895 | | | | | | | |

CROSS SECTIONS - CULVERT #6
 STA. 20+27.00 TO STA. 20+71.22

LIC-THORNWOOD

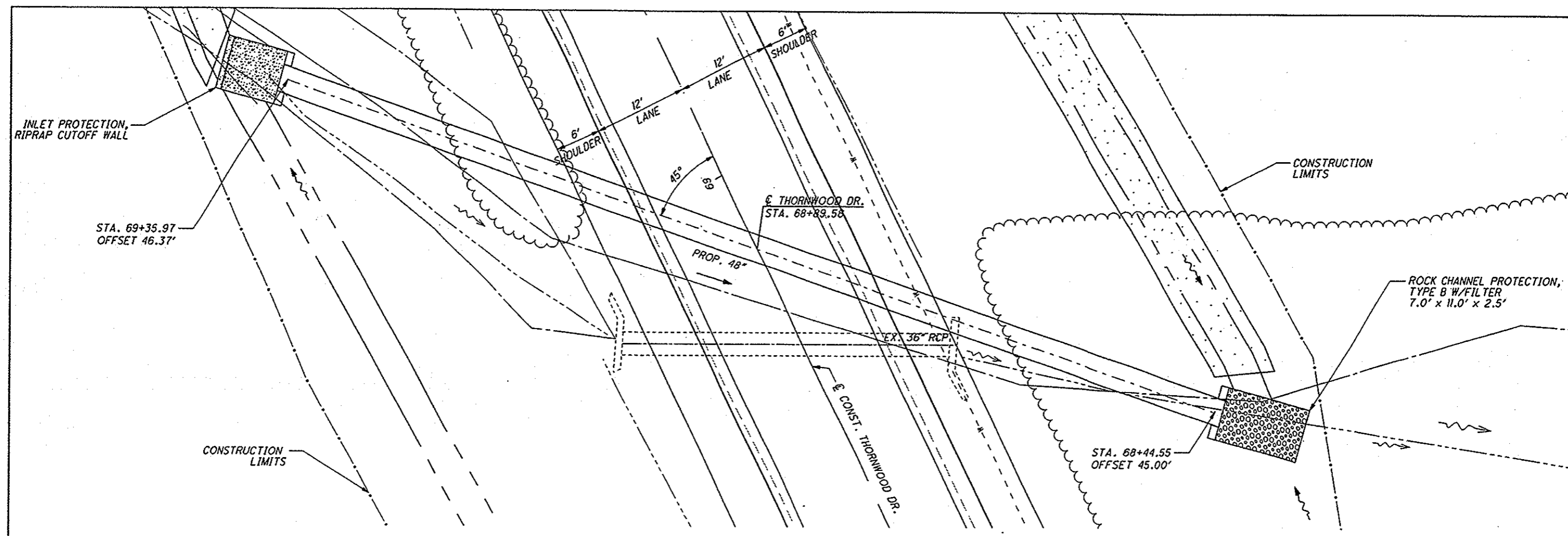


CALCULATED
CHECKED

CULVERT DETAIL
CULVERT #7 STA. 68+83.88

LIC-THORNWOOD

279
285

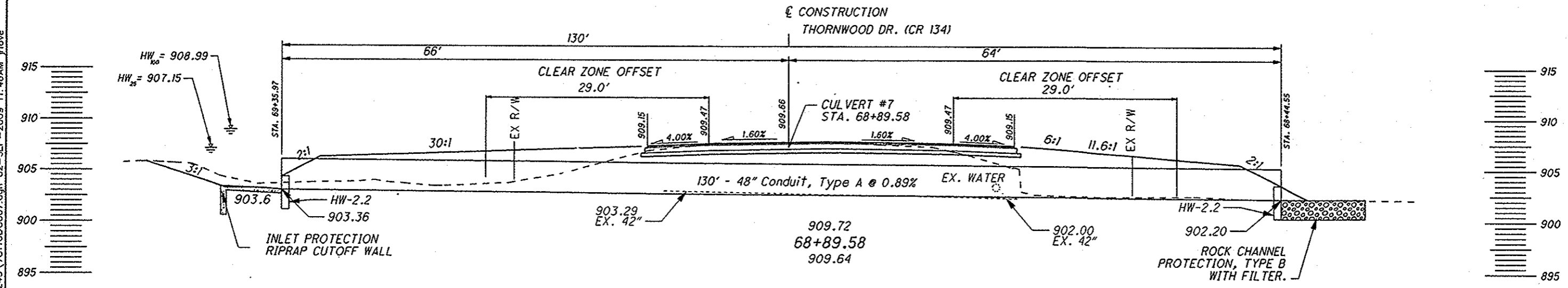


| EXISTING STRUCTURE |
|--|
| TYPE: 36" REINFORCED CONCRETE PIPE SKEW: 26° L.F. ALIGNMENT: TANGENT |

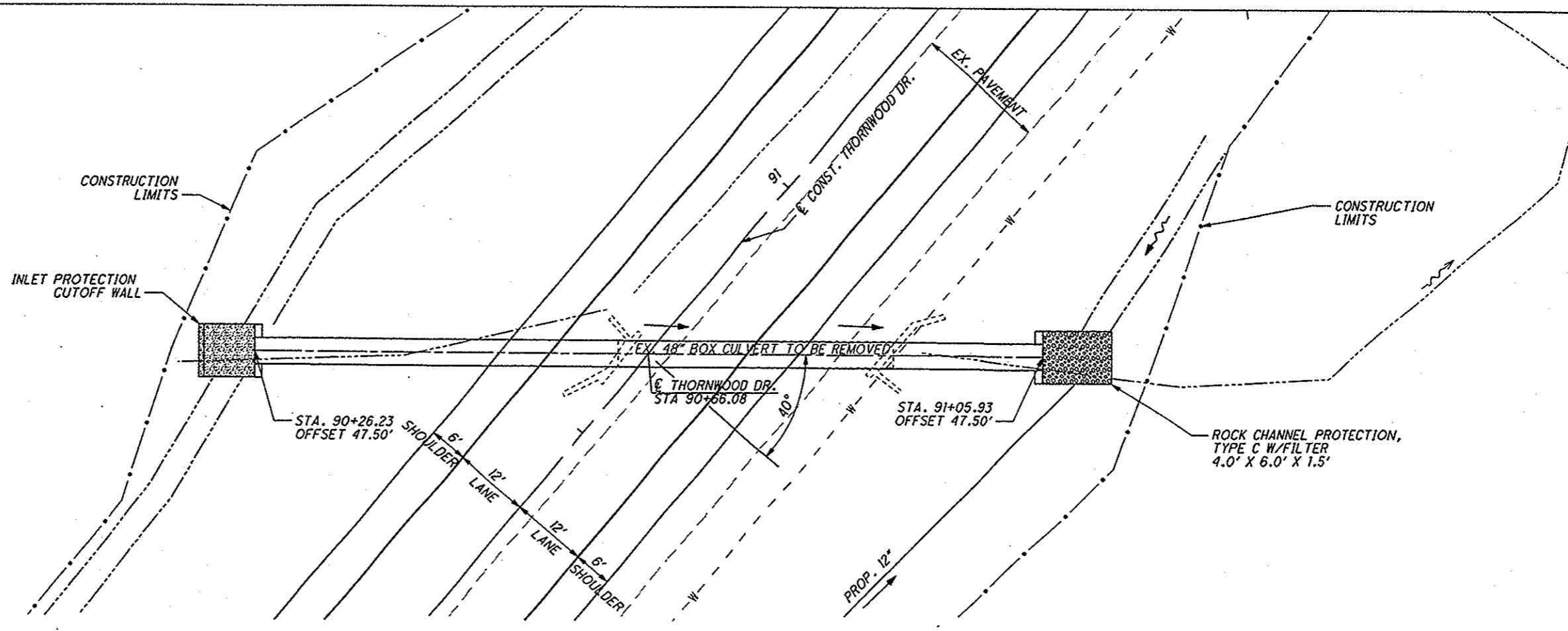
| PROPOSED STRUCTURE |
|---|
| TYPE: 42" CONCRETE PIPE SKEW: 45° L.F. ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|-------------------------|
| DRAINAGE AREA: 58 ACRES |
| Q(25): 71 CFS |
| HW(25): 907.15 FT |
| V(25): 11.11 FT/S |
| Q(100): 103 CFS |
| HW(100): 908.99 FT |
| V(100): 11.43 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



IP_PWF: dms08245\78116DC007.dgn 02-SEP-2009 11:46AM jrlve

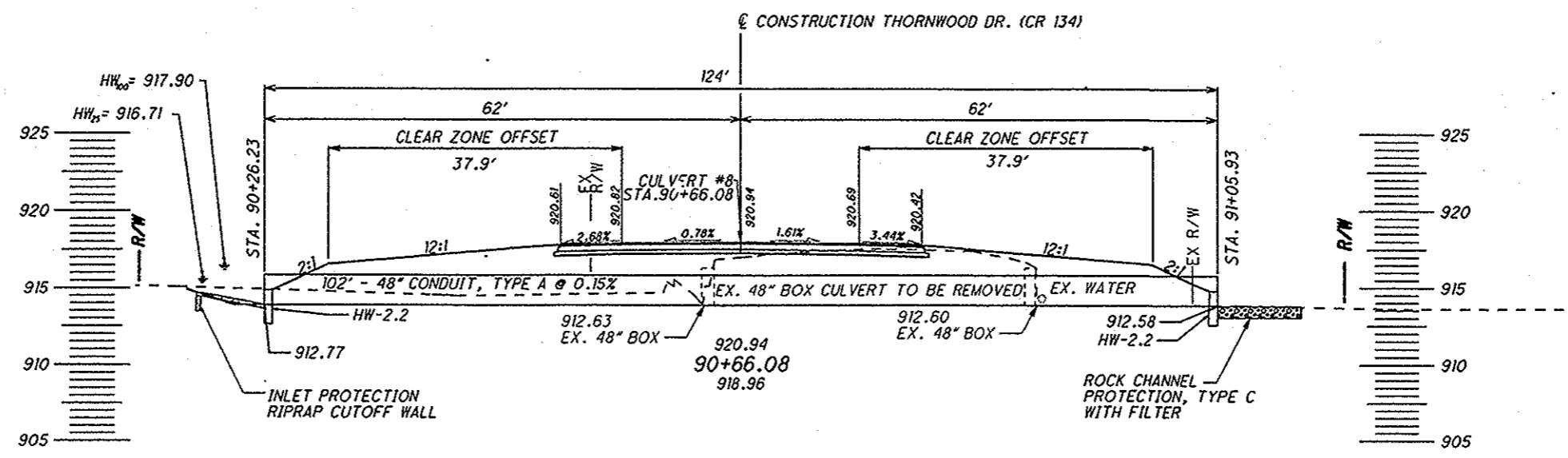


| EXISTING STRUCTURE |
|--|
| TYPE: 48" CONCRETE BOX SKEW: 40° R.F. ALIGNMENT: TANGENT |

| PROPOSED STRUCTURE |
|---|
| TYPE: 48" CONCRETE PIPE SKEW: 40° R.F. ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|-------------------------|
| DRAINAGE AREA: 83 ACRES |
| O(25): 77 CFS |
| HW(25): 916.71 FT |
| V(25): 6.53 FT/S |
| O(100): 109 CFS |
| HW(100): 917.90 FT |
| V(100): 9.25 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



CULVERT DETAIL
CULVERT #8 STA. 90+66.08

LIC-THORNWOOD

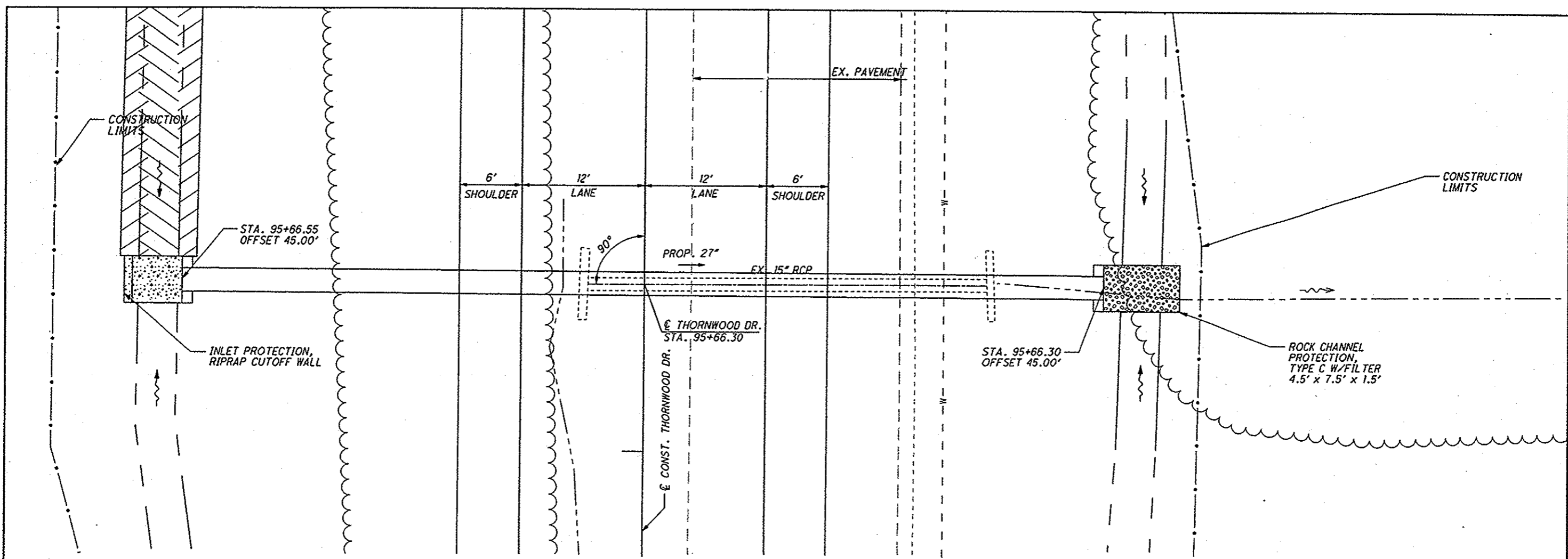


CALCULATED
CHECKED

CULVERT DETAIL
CULVERT #9 STA. 95+66.30

LIC-THORNWOOD

281
285

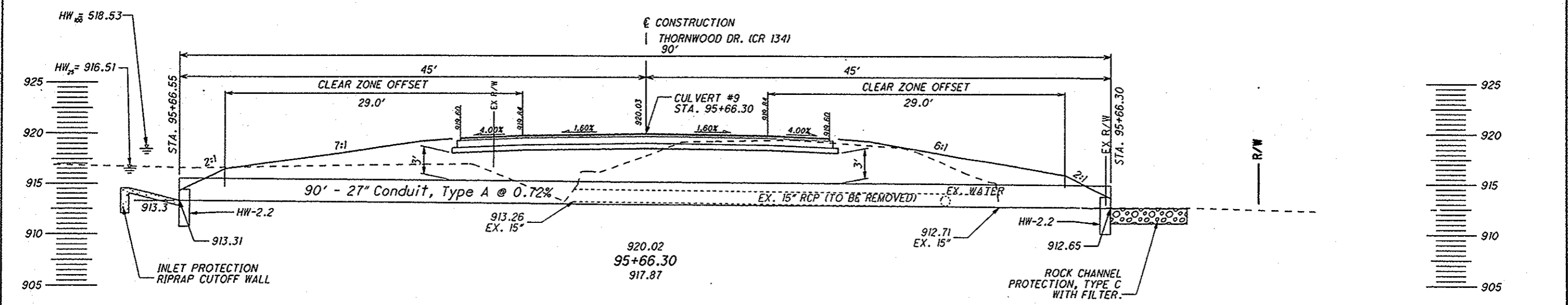


| EXISTING STRUCTURE |
|------------------------------------|
| TYPE: 15" REINFORCED CONCRETE PIPE |
| SKEW: 0° L.F. |
| ALIGNMENT: TANGENT |

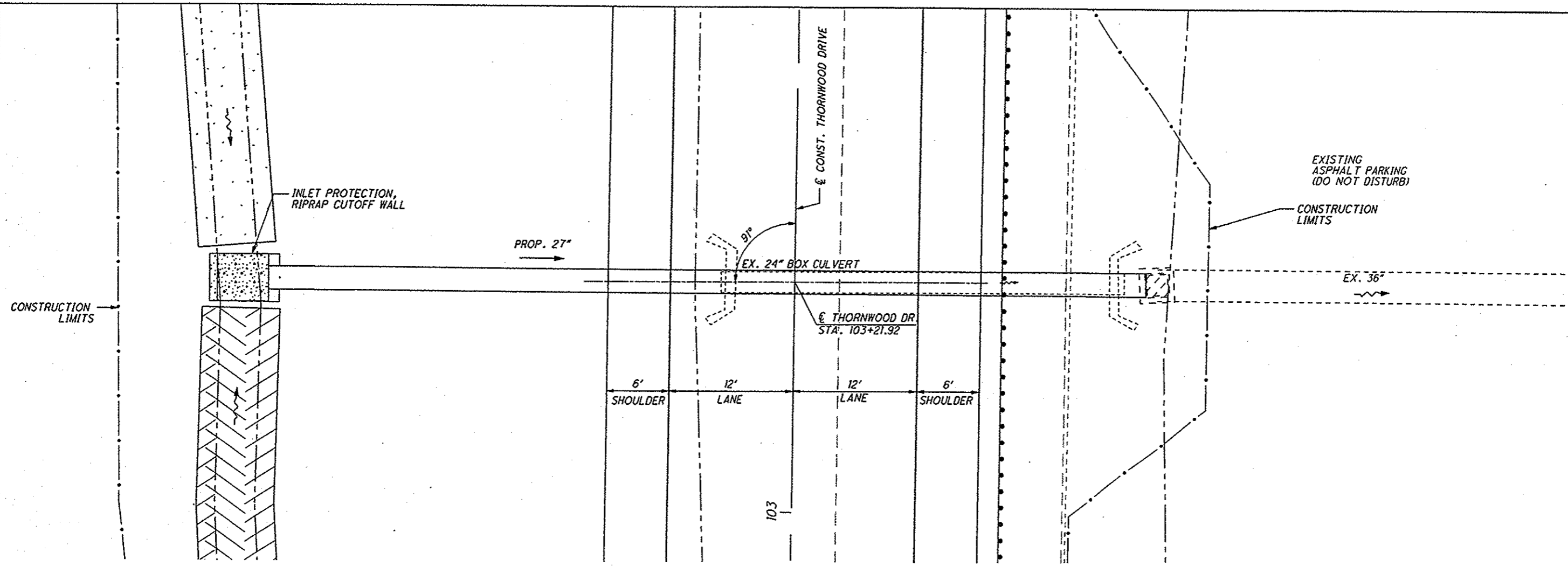
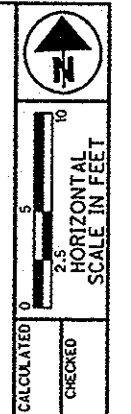
| PROPOSED STRUCTURE |
|-------------------------|
| TYPE: 24" CONCRETE PIPE |
| SKEW: 0° L.F. |
| ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|-------------------------|
| DRAINAGE AREA: 26 ACRES |
| Q(25): 24 CFS |
| HW(25): 916.02 FT |
| V(25): 8.09 FT/S |
| Q(100): 35 CFS |
| HW(100): 917.27 FT |
| V(100): 9.33 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



IP_PWP.dms08245\78116DC009.dgn 02-SEP-2009 7:44AM jrtlove

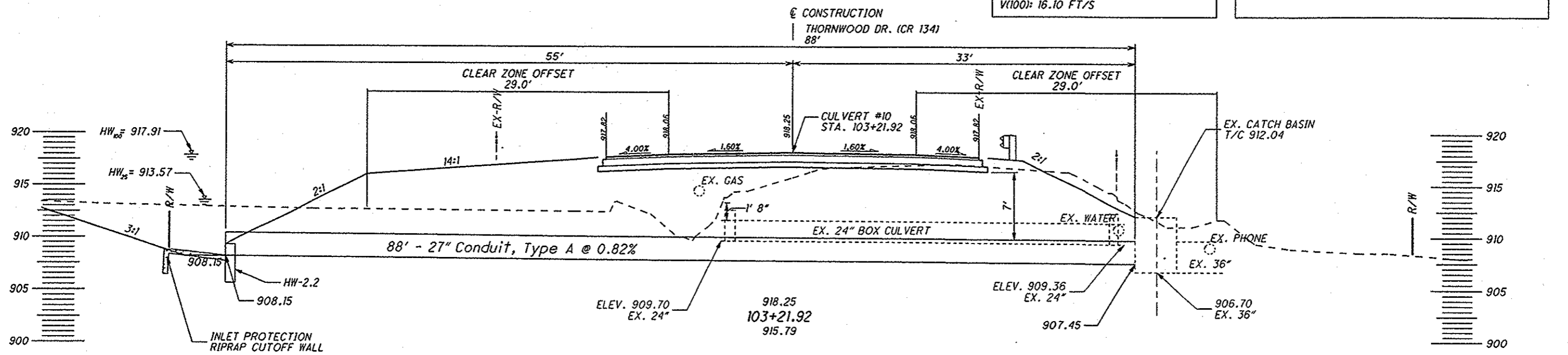


| EXISTING STRUCTURE |
|---|
| TYPE: 24" CONCRETE BOX SKEW: 1° L.F. ALIGNMENT: TANGENT |

| PROPOSED STRUCTURE |
|--|
| TYPE: 27" CONCRETE PIPE SKEW: 1° L.F. ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|-------------------------|
| DRAINAGE AREA: 32 ACRES |
| Q(25): 44 CFS |
| HW(25): 913.57 FT |
| V(25): 11.07 FT/S |
| Q(100): 63 CFS |
| HW(100): 917.91 FT |
| V(100): 16.10 FT/S |

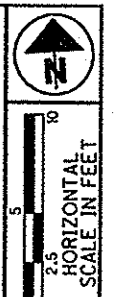
| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



CULVERT DETAIL
CULVERT #10 STA. 103+21.92

LIC-THORNWOOD

IP_PWP:dms08245\78160C010.dgn 02-SEP-2009 7:44AM jlove

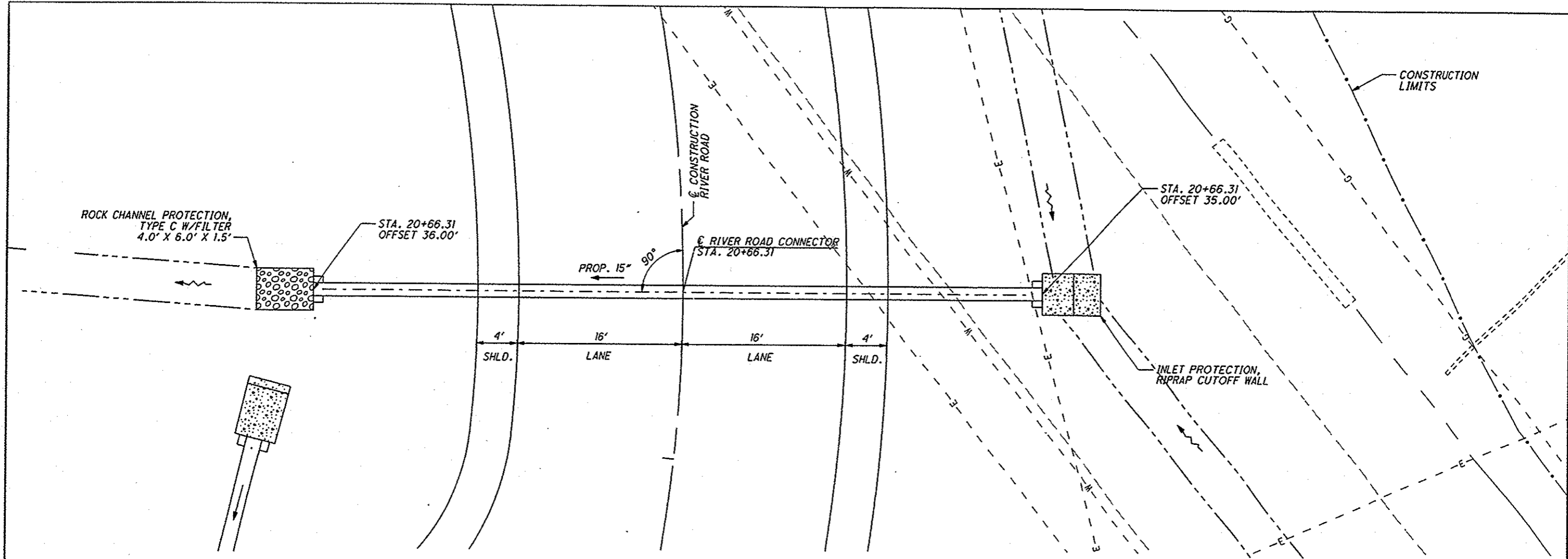


CALCULATED
CHECKED

CULVERT DETAIL
CULVERT #12 STA. 20+66.31

LIC-THORNWOOD

283
285

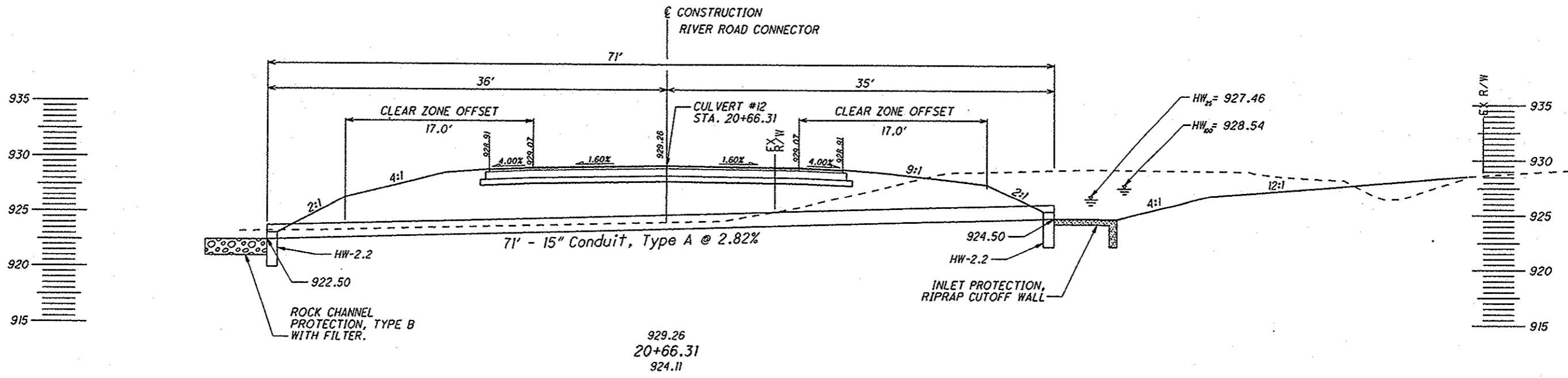


| EXISTING STRUCTURE |
|--------------------|
| TYPE: NONE |
| SKEW: NONE |
| ALIGNMENT: NONE |

| PROPOSED STRUCTURE |
|-------------------------|
| TYPE: 15" CONCRETE PIPE |
| SKEW: 0° L.F. |
| ALIGNMENT: TANGENT |

| HYDRAULIC DESIGN DATA |
|---------------------------|
| DRAINAGE AREA: 6.21 ACRES |
| Q(25): 10.10 CFS |
| HW(25): 927.46 FT |
| V(25): 8.23 FT/S |
| Q(100): 12.50 CFS |
| HW(100): 928.54 FT |
| V(100): 10.19 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



IP_PWP.dms08245\78116DC012.dgn 02-SEP-2009 11:47AM jlove



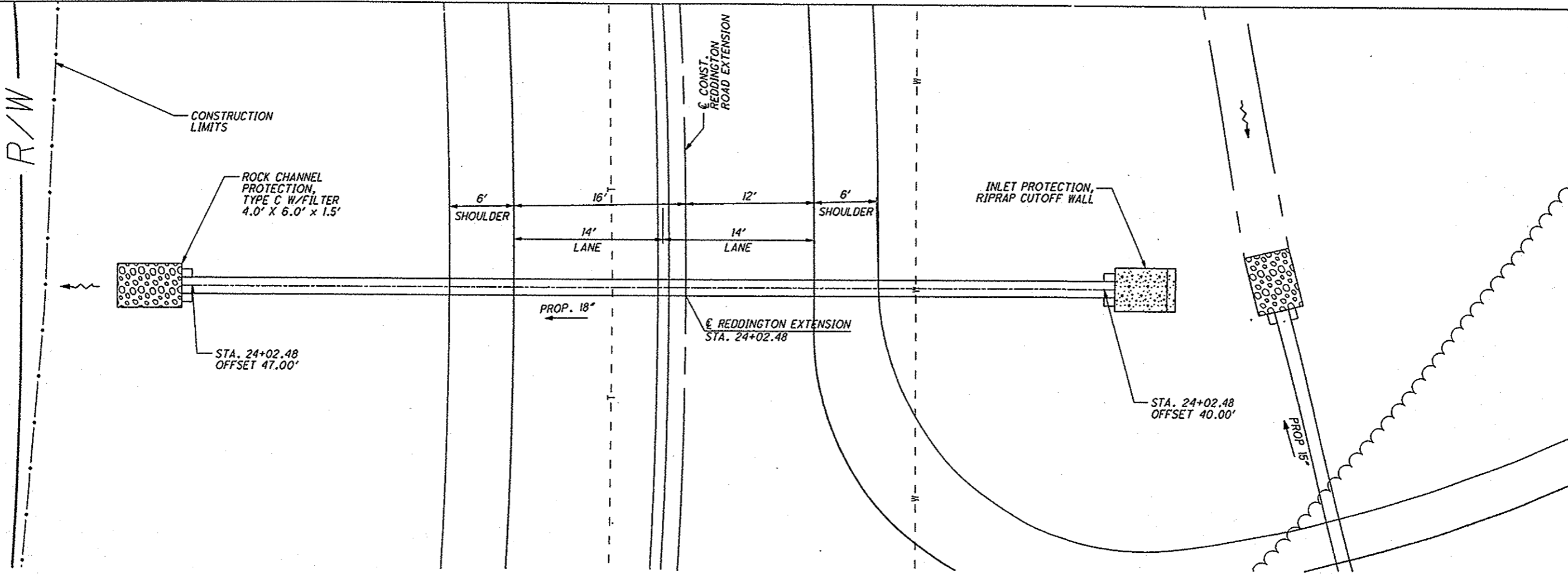
2.5
HORIZONTAL
SCALE IN FEET

CALCULATED
CHECKED

CULVERT DETAIL
CULVERT #13 STA. 24+02.48

LIC-THORNWOOD

284
285

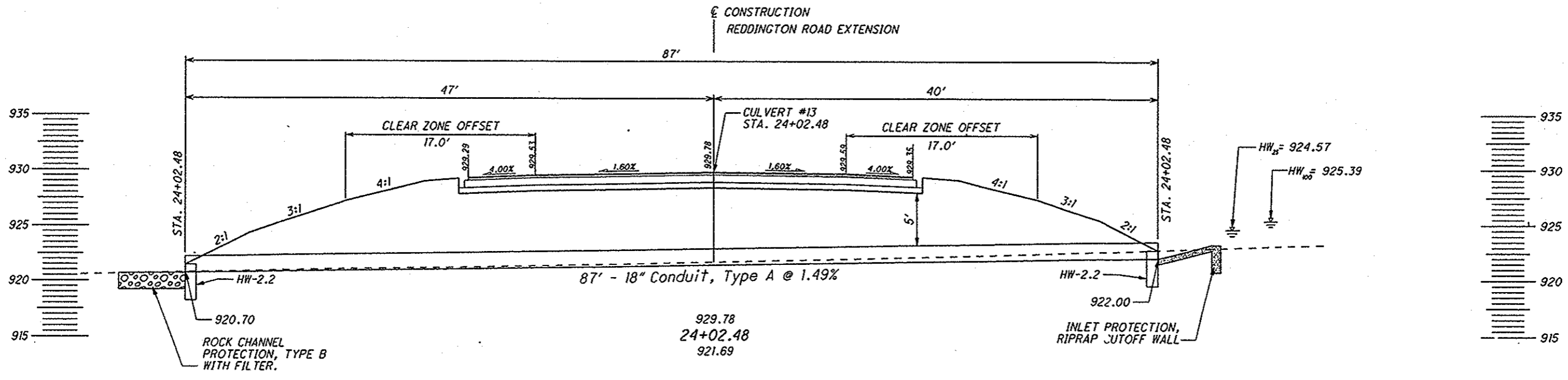


| EXISTING STRUCTURE |
|--------------------|
| NONE |

| PROPOSED STRUCTURE |
|--|
| TYPE: 18" CONCRETE PIPE SKEW: 0° L.F. ALIGNMENT: CURVE |

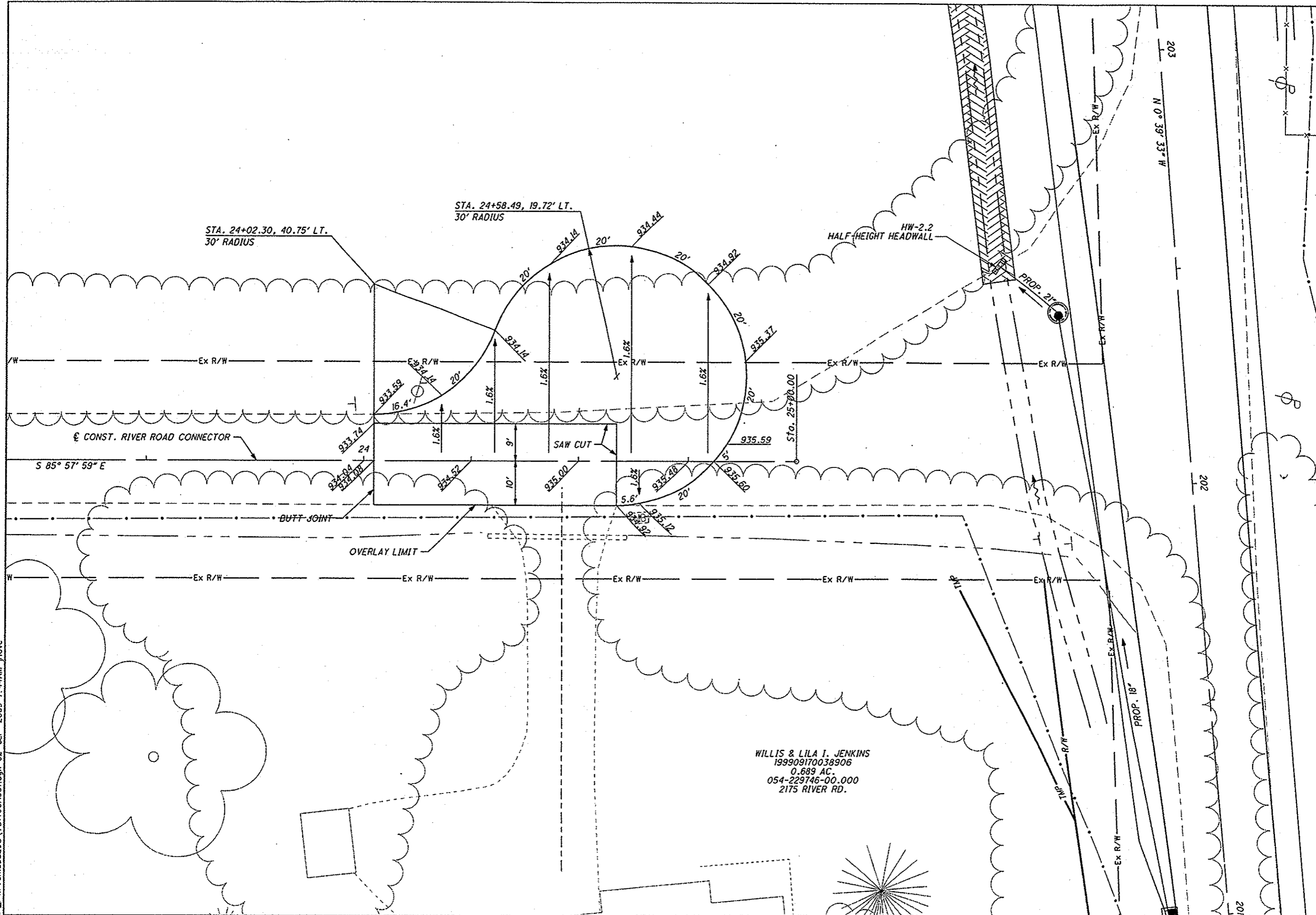
| HYDRAULIC DESIGN DATA |
|---------------------------|
| DRAINAGE AREA: 7.68 ACRES |
| Q(25): 12.40 CFS |
| HW(25): 924.57 FT |
| V(25): 8.90 FT/S |
| Q(100): 15.40 CFS |
| HW(100): 925.39 FT |
| V(100): 8.71 FT/S |

| ESTIMATED QUANTITIES CARRIED TO GENERAL SUMMARY |
|---|
| XXXXXX |
| XXXXXX |
| XXXXXX |
| XXXXXX |



IP_P:\WP\dms08245\78116DC013.dgn 02-SEP-2009 11:47AM jrllove

IP_PWP: dms08268\78116GA001.dgn 02-SEP-2009 7:44AM jlove



WILLIS & LILA J. JENKINS
 199909170038906
 0.689 AC.
 054-229746-00.000
 2175 RIVER RD.

CALCULATED
 RAT
 CHECKED
 JEL

0 10 20
 HORIZONTAL
 SCALE IN FEET

203
 N 0° 39' 33" W

PAVEMENT DETAIL
RIVER ROAD CONNECTOR CUL-DE-SAC

LIC-THORNWOOD

285
 285