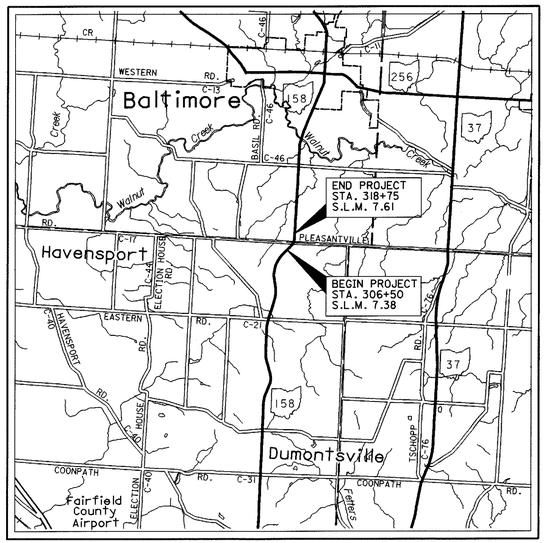

LOCATION MAP

LATITUDE: 39 °50'0 ″ LONGITUDE: 82 °36'0 ″

SCALE IN MILES

0 1 2 3 4

N

INTERSTATE & DIVIDED HIGHWAY
UNDIVIDED STATE & FEDERAL ROUTES
OTHER ROADS

DESIGN DESIGNATION

CURRENT ADT (1999)	4850
DESIGN YEAR ADT (2019)	7210
DESIGN HOURLY VOLUME (2019)	865
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	3%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH

DESIGN FUNCTIONAL CLASSIFICATION - RURAL COLLECTOR

DESIGN EXCEPTIONS

NONE REQUIRED

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

FAI-158-7.38

LIBERTY TOWNSHIP
GREENFIELD TOWNSHIP
FAIRFIELD COUNTY

INDEX OF SHEETS:

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PLAN AND PROFILE S.R. 158	16-18
CROSS SECTIONS S.R. 158	19-25
PLAN AND PROFILE PLEASANTVILLE ROAD	26 & 27
CROSS SECTIONS PLEASANTVILLE ROAD	28-31
DRIVE PROFILES	32-34
TRAFFIC CONTROL	35 & 36
RIGHT OF WAY	37- 45

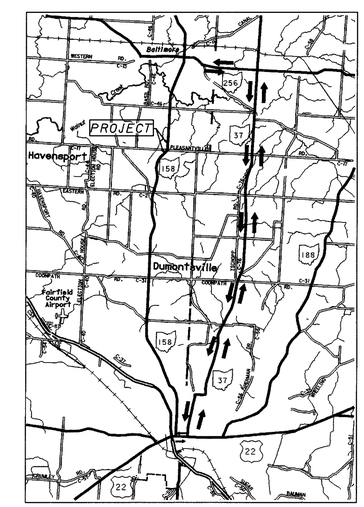
PROJECT DESCRIPTION

THIS PROJECT WILL IMPROVE THE VERTICAL AND HORIZONTAL ALIGNMENT OF S.R. 158 AT PLEASANTVILLE ROAD AND THE IMPROVED APPROACHES OF PLEASANTVILLE ROAD TO S.R. 158. THE LENGTH OF THIS PROJECT WILL BE 0.23 MILE

1997 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS SHOWN BELOW



DETOUR MAP

SCALE IN MILES

0 1 2 3 4

N

STATE OF OHIO JAMES G. ROBERTS 52927 REGISTERED PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT I DID SUPERVISE THE PREPARATION OF THESE PLANS THIS 30TH DAY OF DECEMBER 1999.

James G. Roberts

JAMES G. ROBERTS, P.E. 52927

PLAN PREPARED BY:
JOBES HENDERSON & ASSOCIATES INC.
59 GRANT STREET
NEWARK, OHIO 43055

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

STANDARD CONSTRUCTION DRAWINGS					SUPPLEMENTAL SPECIFICATIONS	
BP-4.1	2-21-92	TC-65.12	7-7-95		877	4-13-99
CB-2-2 A&B	5-1-79	MT-101.60	7-1-92		1056	2-22-00
HW-4A	4-1-80	MT-105.10	7-1-92		806	9/9/97
HW-4B	4-1-80	MT-105.11	7-1-92		870	8/10/99
MC-1	6-13-69				906	5/5/98
MC-4	7-26-76				908	3/28/00
MC-11	8-1-78				905	4/1/98
DM-1.1M	10-21-97				907	10/21/98
DM-1.2M	10-21-97					
TC-41.20	6-21-94					
TC-42.20	3-26-79					
TC-52.10	4-3-79					
TC-52.20	4-3-79					
TC-65.10	7-7-95					

APPROVED Christopher T. Rupe
DATE 2/20/01 DISTRICT DEPUTY DIRECTOR

APPROVED Gordon Proctor
DATE 3-2-01 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. TE21-0.00(253)

PID NO. 20379

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

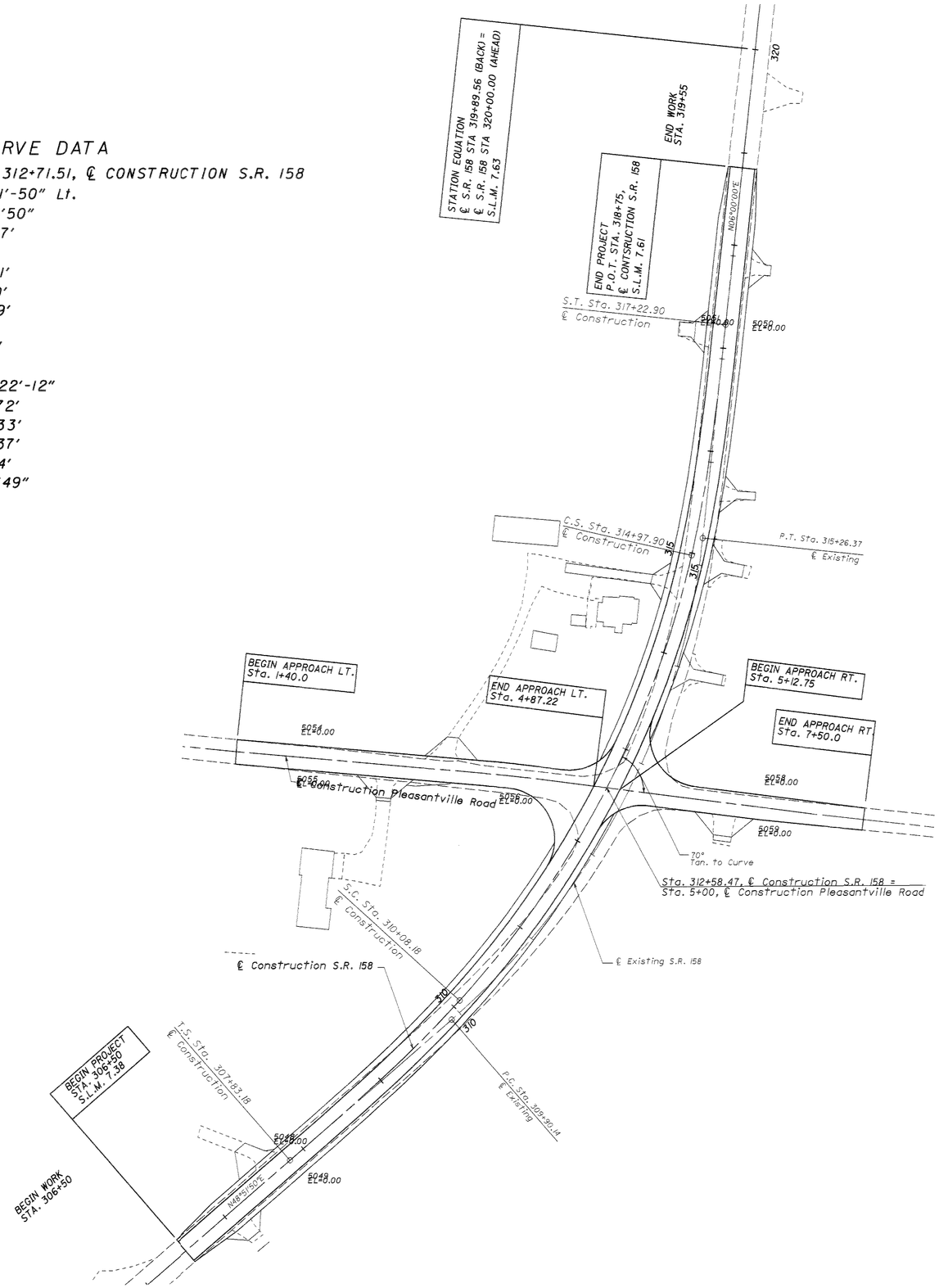
FAI-158-7.38

FAI - SR 158 - 7.38
010248 PID - 20379
Dist 5 5/31/01

FAI158GTS.DGN

CURVE DATA

P.I. STA. 312+71.51, ℄ CONSTRUCTION S.R. 158
Δ = 42°-51′-50″ Lt.
Dc = 5°59′50″
R = 955.37′
Ls = 225′
LT = 150.11′
ST = 75.10′
x = 224.69′
y = 8.82′
k = 112.45′
p = 2.21′
Δc = 29°-22′-12″
Lc = 489.72′
Ts = 488.33′
Tc = 250.37′
Es = 73.34′
Ø = 6°44′49″



CURVE DATA (EXISTING)

P.I. STA. 312+71.50, ℄ EXISTING S.R. 158
Δ = 42°-51′-50″ Lt.
Dc = 7°59′37″
R = 716.78′
T = 281.36′
L = 536.24′
E = 53.25′

N

HORIZONTAL SCALE IN FEET
0 60 120

CALCULATED CMS
CHECKED DRM

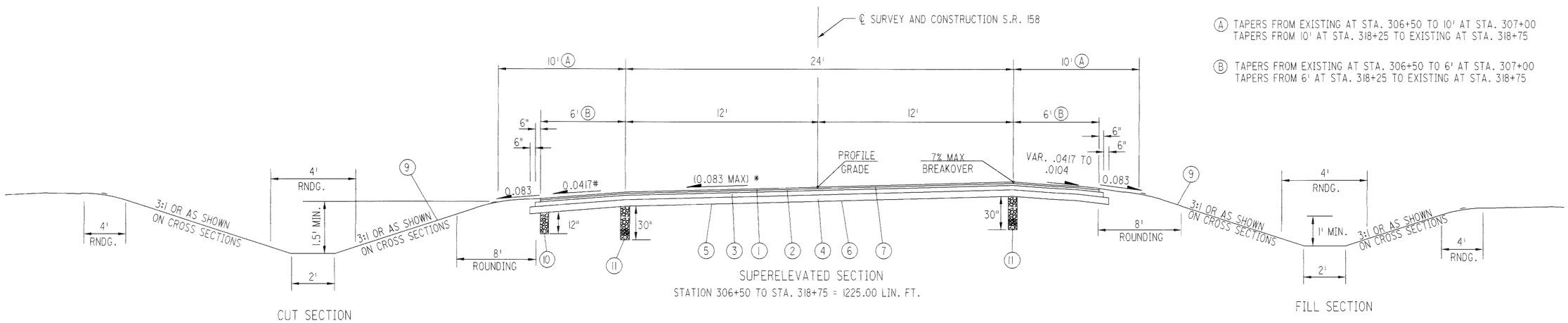
SCHEMATIC PLAN

FAI-158-7.38

FAI158GSP.DGN

TYPICAL SECTION

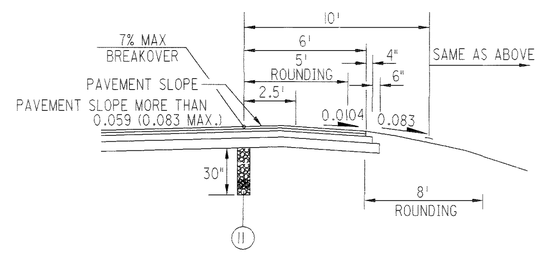
STATE ROUTE 158



(A) TAPERS FROM EXISTING AT STA. 306+50 TO 10' AT STA. 307+00
TAPERS FROM 10' AT STA. 318+25 TO EXISTING AT STA. 318+75

(B) TAPERS FROM EXISTING AT STA. 306+50 TO 6' AT STA. 307+00
TAPERS FROM 6' AT STA. 318+25 TO EXISTING AT STA. 318+75

*SEE SUPERELEVATION TABLES ON SHEET 10.
#OR PAVEMENT SLOPE IF GREATER



LEGEND

MARK	ITEM	DESCRIPTION
1	ITEM 448	1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
2	ITEM 448	1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
3	ITEM 301	9" BITUMINOUS AGGREGATE BASE, PG64-22
4	ITEM 304	6" AGGREGATE BASE
5	ITEM 203	SUBGRADE COMPACTION
6	ITEM 203	PROOF ROLLING
7	ITEM 407	TACK COAT FOR INTERMEDIATE COURSE
8	NOT USED	
9	ITEM 659	SEEDING AND MULCHING
10	ITEM 605	4" SHALLOW PIPE UNDERDRAIN (12" DEPTH)
11	ITEM 605	4" SHALLOW PIPE UNDERDRAIN (30" DEPTH)

CALCULATED CMS
CHECKED DRM

PROPOSED TYPICAL SECTIONS S.R 158

FAI-158-7.38

FAI158PTSI.DGN

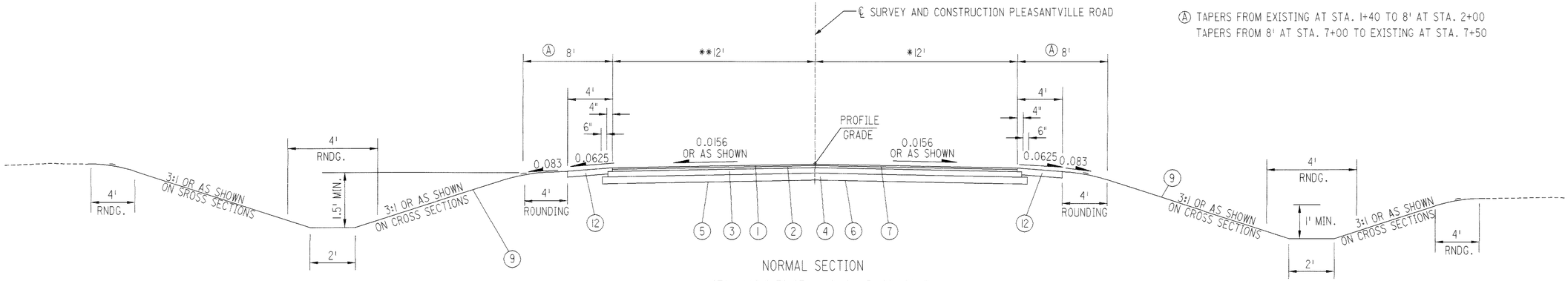
TYPICAL SECTION

PLEASANTVILLE ROAD

**TAPERS FROM 11.8' STA. 1+40.0
TO 12' STA. 1+60.0
TAPERS FROM 12' STA. 6+50 TO
11.26' STA. 7+50.0

*TAPERS FROM 11.7' STA. 1+40.0
TO 12' STA. 1+60.0
TAPERS FROM 12' STA. 6+50 TO
10.21' STA. 7+50.0

(A) TAPERS FROM EXISTING AT STA. 1+40 TO 8' AT STA. 2+00
TAPERS FROM 8' AT STA. 7+00 TO EXISTING AT STA. 7+50

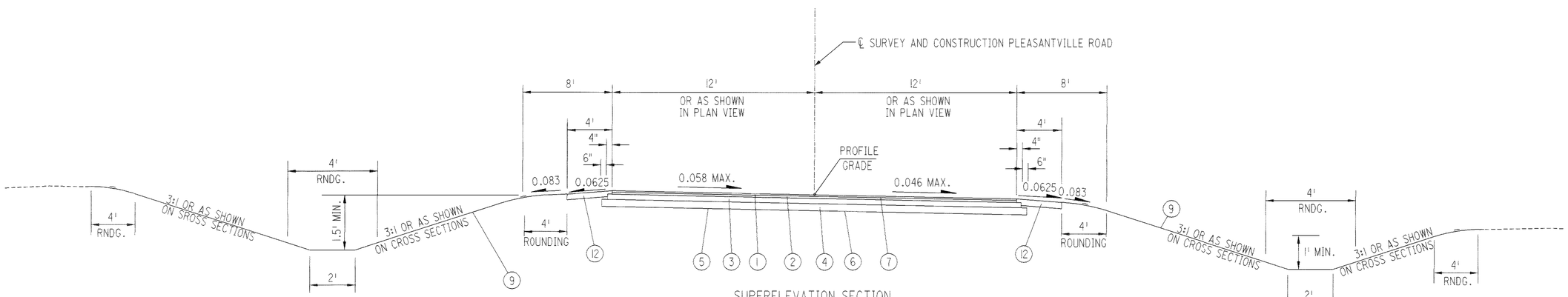


CUT SECTION

NORMAL SECTION

STA. 1+40.0 TO STA. 1+94.8 = 54.80 LIN. FT.
STA. 5+12.75 TO STA. 7+50.0 = 237.25 LIN. FT.
TOTAL = 292.05 LIN. FT.

FILL SECTION



CUT SECTION

SUPERELEVATION SECTION

STA. 1+94.80 TO STA. 4+87.22 = 292.42 LIN. FT.
TOTAL = 292.42 LIN. FT.

FILL SECTION

LEGEND

MARK	ITEM	DESCRIPTION
(1)	ITEM 448	1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
(2)	ITEM 448	1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
(3)	ITEM 301	6" BITUMINOUS AGGREGATE BASE, PG64-22
(4)	ITEM 304	6" AGGREGATE BASE
(5)	ITEM 203	SUBGRADE COMPACTION
(6)	ITEM 203	PROOF ROLLING
(7)	ITEM 407	TACK COAT FOR INTERMEDIATE COURSE
(8)	NOT USED	
(9)	ITEM 659	SEEDING AND MULCHING
(12)	ITEM 304	8" AGGREGATE BASE

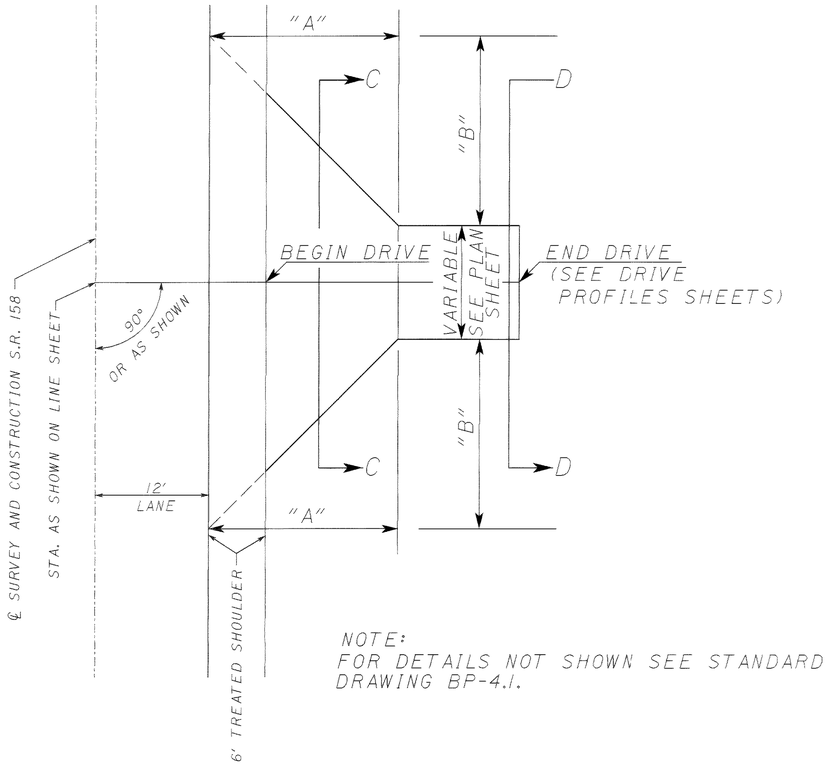
CALCULATED CMS
CHECKED DRM

PROPOSED TYPICAL SECTIONS PLEASANTVILLE RD.

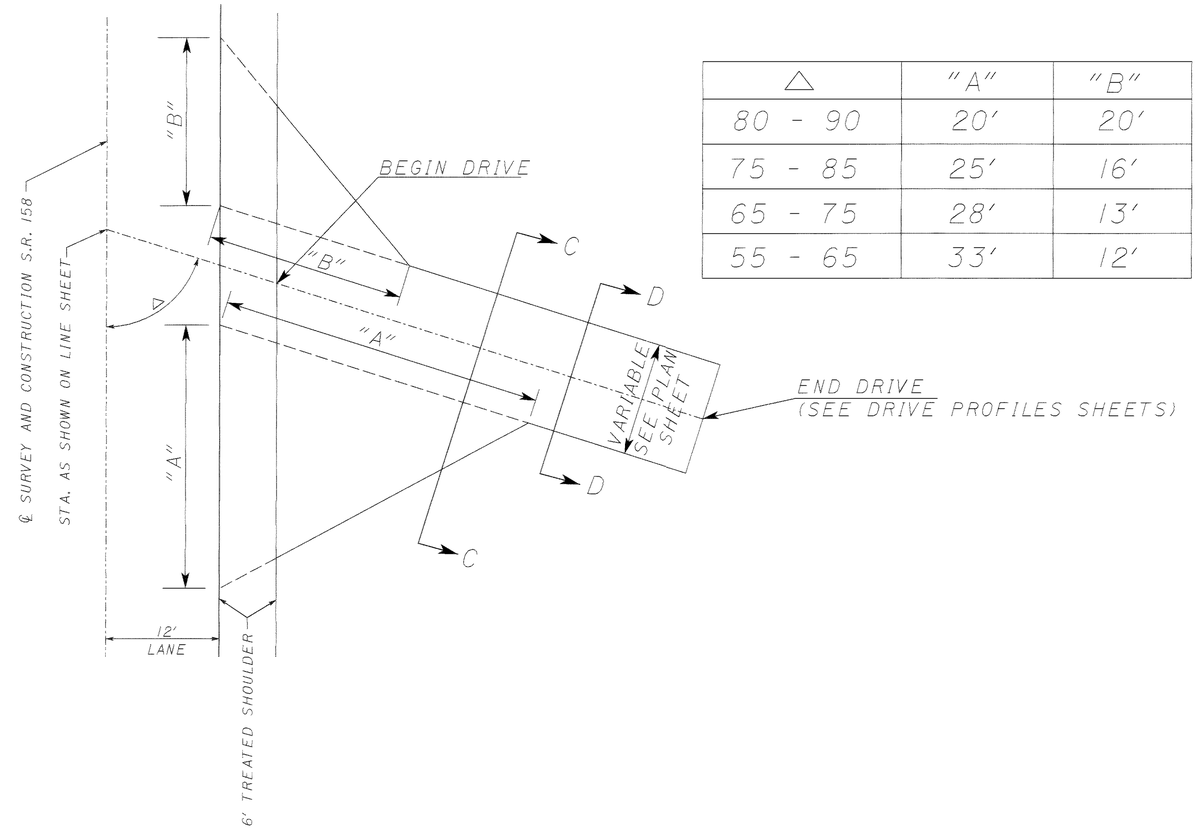
FAI-158-7.38

FAI158PTS2.DGN

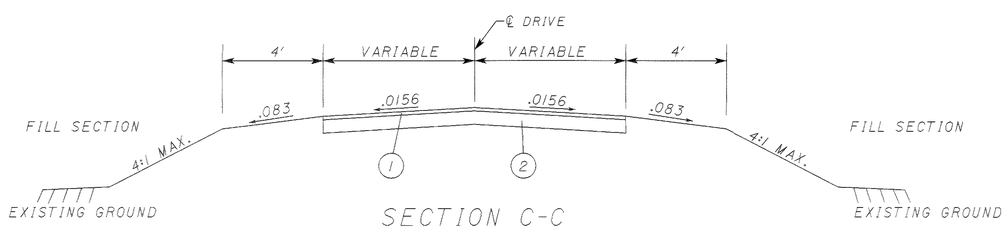
DRIVE TYPICALS



NOTE:
FOR DETAILS NOT SHOWN SEE STANDARD DRAWING BP-4.1.



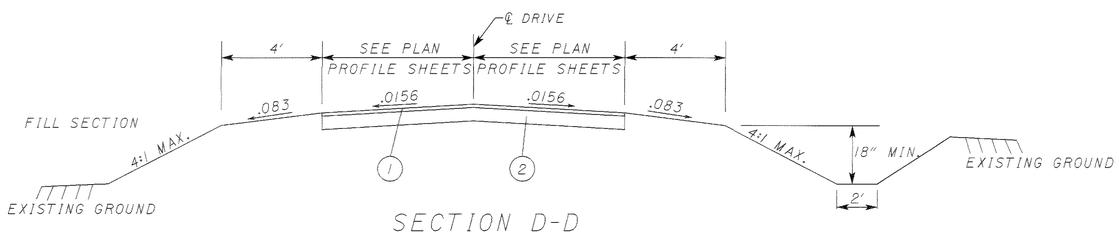
△	"A"	"B"
80 - 90	20'	20'
75 - 85	25'	16'
65 - 75	28'	13'
55 - 65	33'	12'



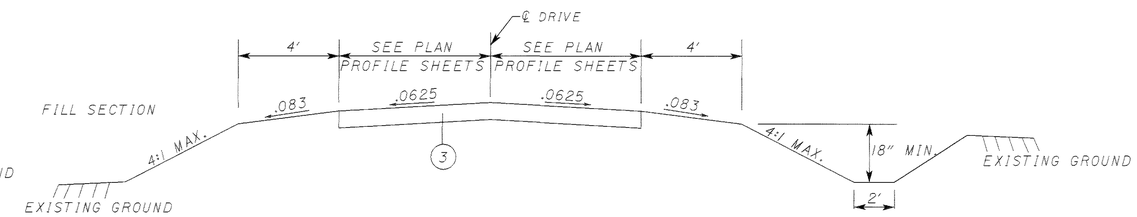
SECTION C-C

LEGEND

MARK	ITEM	DESCRIPTION
1	448	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22 (FOR DRIVEWAYS)
2	301	3 3/4" BITUMINOUS AGGREGATE BASE, PG64-22 (FOR DRIVEWAYS)
3	304	8" AGGREGATE BASE



SECTION D-D
RESIDENCE DRIVE (EXISTING ASPHALT)



SECTION D-D
RESIDENCE DRIVE (EXISTING GRAVEL)

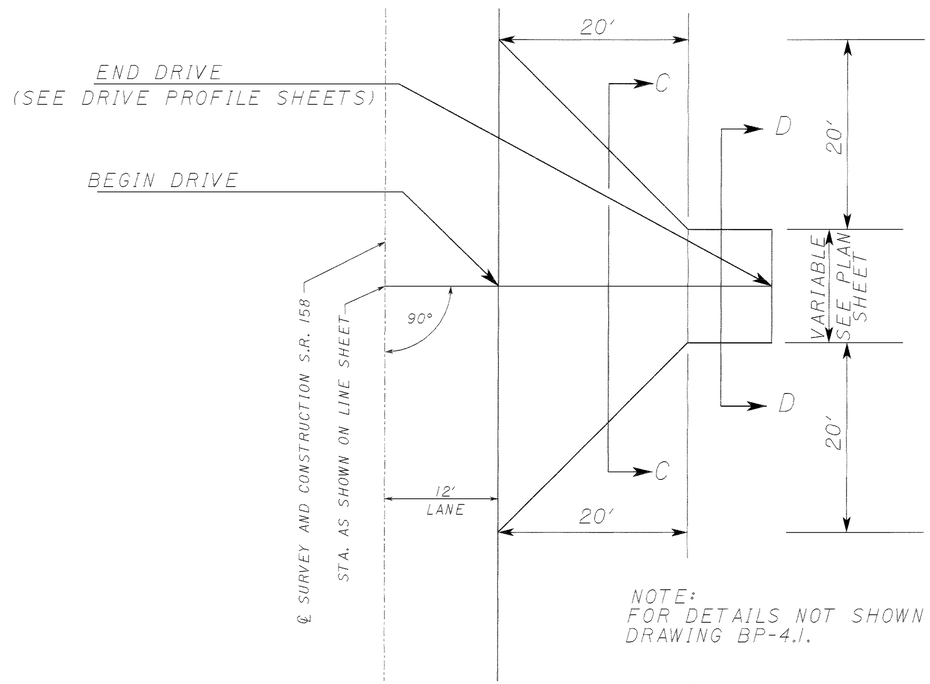
CALCULATED CMS
CHECKED DRM

DRIVE TYPICALS WITH PAVED SHOULDERS

FAI-158-7.38

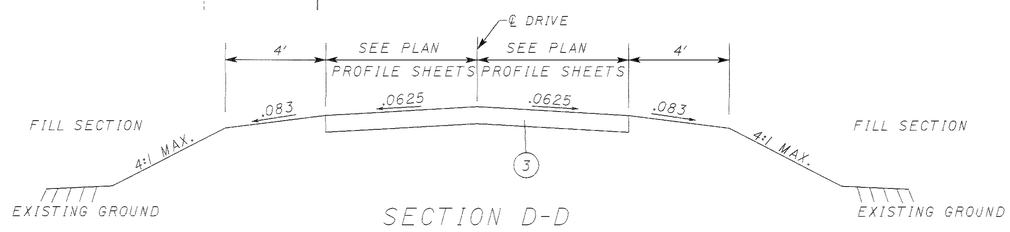
FAI158PTS3.DGN

DRIVE TYPICALS

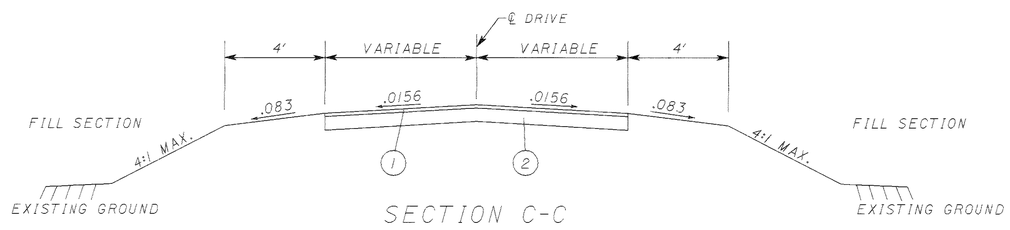


NOTE:
9-DR, STA. 2+85.5 FOR DETAILS OF COMBINED DRIVEWAY AND MAIL BOX APPROACH NOT SHOWN SEE STANDARD DRAWING BP-4.1. (TWO MAIL BOXES)

NOTE:
FOR DETAILS NOT SHOWN SEE STANDARD DRAWING BP-4.1.



SECTION D-D



SECTION C-C

LEGEND

MARK	ITEM	DESCRIPTION
1	448	1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (FOR DRIVEWAYS)
2	301	3 3/4" BITUMINOUS AGGREGATE BASE, PG64-22 (FOR DRIVEWAYS)
3	304	8" AGGREGATE BASE

CALCULATED CMS
CHECKED DRM

DRIVE TYPICALS WITHOUT PAVED SHOULDERS

FAI-158-7.38

FAI158PTS4.DGN

GENERAL NOTES

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

UTILITIES
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.

UTILITY OWNERS

GTE NORTH INCORPORATED
500 LANCASTER PIKE
CIRCLEVILLE, OH 43113
ATTN: MIKE EDWARDS
(740) 474-7197

SOUTH CENTRAL POWER CO.
2780 COONPATH ROAD, N.E.
LANCASTER, OH 43130-0250
ATTN: RALPH JONES
(740) 653-4422

AMERITECH
160 N. SIXTH STREET
ZANESVILLE, OHIO 43701
ATTN: SANDY RANDOLF
(740) 454-3455

TIME WARNER CABLE
1315 GRANVILE PIKE
LANCASTER, OH 43130
ATTN: JIM JONES
(740) 653-6899

CONTINGENCY QUANTITIES
THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM
ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

WORK LIMITS
THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ITEM 203, PROOF ROLLING
AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

REMOVAL OF TREES OR STUMPS
ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED:

SIZES	NO. TREES	NO. STUMPS	TOTAL
15"	8	0	8

ITEM 659, SEEDING AND MULCHING
SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR ITEM 659, SEEDING AND MULCHING, ARE BASED ON THESE LIMITS.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

CARRIED FROM SHEET 25	7458 SQ. YD.
CARRIED FROM SHEET 29	1889 SQ. YD.
CARRIED FROM SHEET 31	1315 SQ. YD.
TOTAL	10,662 SQ. YD.

ITEM 659, SEEDING AND MULCHING 10,662 SQ. YD.
ITEM 659, COMMERCIAL FERTILIZER 1 TON
ITEM 659, AGRICULTURAL LIMING 2 TON

SEEDING AND MULCHING OF LAWNS
IN ADDITION TO "AREAS IN FRONT OF RESIDENCES" REFERRED TO IN 659.09, THE SPECIAL PREPARATION SHALL BE EXTENDED TO ENCOMPASS ALL LAWNS AND/OR LAWN-LIKE AREAS AS DETERMINED BY THE ENGINEER.

WATERING PERMANENT SEEDED AREAS
THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR PERMANENT SEEDED AREAS PER 659.09:

ITEM 659, WATER 23 M.GAL.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL
THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE PLACED BY THE CONTRACTOR WITH THE ENGINEER'S CONCURRENCE FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

ITEM 877, TEMPORARY INLET PROTECTION FILTER FABRIC FENCE 300 LIN. FT.
ITEM 877, TEMPORARY SEEDING AND MULCHING 2100 SQ.YD.

EROSION CONTROL
ITEMS 601 AND 670 ARE PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS AND TURF OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE 660, 667 OR 668. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THESE ITEMS SHALL MEET THE REQUIREMENT OF 108.04.

Indiana Bat Note:

Clearing of any trees that have a suitable summer brood rearing or roosting habitat for the federally endangered Indiana Bat (e.g. trees with a dbh of 9 inches or greater, exfoliating bark and/or cavities), shall occur before April 15 or after September 15 when the bats would not be using such habitat.

CALCULATED CMS
CHECKED DRM

GENERAL NOTES

FAI-158-7.38

FAI158GGN1.DGN

GENERAL NOTES

FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT-OF-WAY)(CONSTRUCTION) LIMITS BY ITEM 603 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 603 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 603, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING MC-4, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEM.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 603 6" CONDUIT, TYPE B	50	LIN.FT.
ITEM 603 6" CONDUIT, TYPE E	50	LIN.FT.
ITEM 603 6" CONDUIT, TYPE F	100	LIN.FT.
ITEM 603 8" CONDUIT, TYPE B	50	LIN.FT.
ITEM 603 8" CONDUIT, TYPE E	50	LIN.FT.
ITEM 603 8" CONDUIT, TYPE F	50	LIN.FT.
ITEM 601 ROCK CHANNEL PROTECTION TYPE C WITH FABRIC FILTER	5	CU.YDS.

ITEM 407, TACK COAT FOR INTERMEDIATE COURSE

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF .05 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ITEM 604, CATCH BASIN NO. 2-2B, AS PER PLAN

CATCH BASINS SHALL BE CONSTRUCTED IN CONFORMANCE WITH ITEM 604 EXCEPT THAT THE CATCH BASIN SHALL BE PRECAST OR CAST IN PLACE CONCRETE. BRICK OR CONCRETE BLOCK WILL NOT BE PERMITTED. ALL CATCH BASINS SHALL HAVE BICYCLE SAFE GRATES.

ITEM 304 AGGREGATE BASE FOR MAINTAINING DRIVE ACCESS

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO MAINTAIN DRIVE ACCESS AS DIRECTED BY THE PROJECT ENGINEER.

ITEM 304 AGGREGATE BASE 75 CU. YD.

ITEM 621 RAISED PAVEMENT MARKER

THE FOLLOWING QUANTITIES HAS BEEN CARRIED TO THE GENERAL SUMMARY TO CONSTRUCT ITEM 621 RAISED PAVEMENT MARKERS AS PER STANDARD DRAWINGS TC-65.10 & TC-65.12.

ITEM 202 RAISED PAVEMENT MARKER REMOVED FOR STORAGE
32 EACH

ITEM 621 RAISED PAVEMENT MARKER (TWO WAY YELLOW/YELLOW)
25 EACH

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 WATER	7	M-GAL.
ITEM 616 CALCIUM CHLORIDE	1	TONS

ITEM 614, MAINTAINING TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48"X30" "ROAD CLOSED" SIGNS, SIGN SUPPORTS, BARRICADES, GATES, AND LIGHTS, AS DETAILED IN STANDARD CONSTRUCTION DRAWING MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC:

S.R. 158 NORTH OF THE PROJECT
S.R. 158 SOUTH OF THE PROJECT
PLEASANTVILLE ROAD WEST OF THE PROJECT
PLEASANTVILLE ROAD EAST OF THE PROJECT

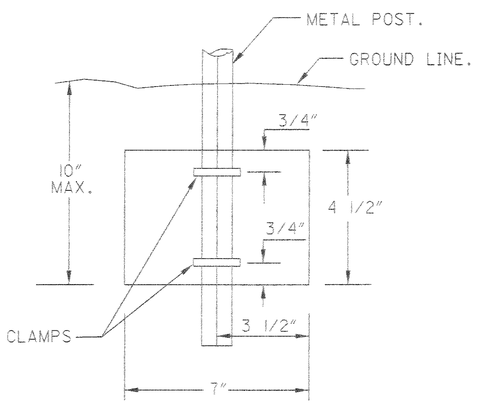
ALL DRIVE ACCESS TO S.R. 158 AND PLEASANTVILLE RD. SHALL BE TEMPORARILEY MAINTAINED BY THE CONTRACTOR. MATERIAL AND ACCESS SHALL IN ALL CASES BE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER. AN ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE PLANS FOR MAINTAINING DRIVE ACCESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

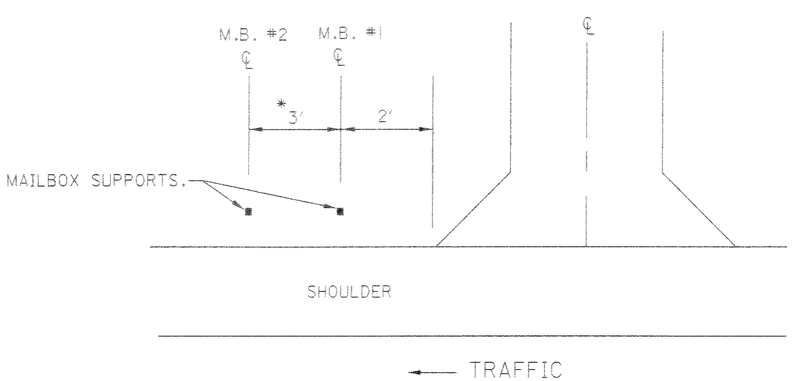
MAILBOX DETAILS

MARK	℄ DRIVE STATION	SIDE	SEE SHEET	SPECIAL: MAILBOX SUPPORT SYSTEM SINGLE	SPECIAL: MAILBOX SUPPORT SYSTEM DOUBLE
				EACH	EACH
	S.R. 158				
1-DR	307+10.0	RT.		1	
	307+78.0	RT.		1	
5-DR	314+92.5	RT.		1	
	317+20.0	RT.		1	
8-DR	317+79.2	RT.		1	
	PLEASENTVILLE RD.				
9-DR	2+85.5	RT.			1
TOTALS				5	1

QUANTITIES CARRIED TO GENERAL SUMMARY.



ANTI-TWIST PLATE



* ADD 3' FOR EACH ADDITIONAL MAILBOX.

ITEM SPECIAL - MAILBOX SUPPORT

DESCRIPTION

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATION SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING POSTS AND OTHER MATERIAL NOT CONSIDERED SALVAGEABLE AND DISPOSED OF IN ACCORDANCE WITH 202.02.

MATERIALS

WOOD POSTS SHALL BE NOMINAL 4" x 4" SQUARE OR 4 1/2" DIAMETER ROUND, AND CONFORM TO 710.14.

THE WOOD PLATE THAT IS ATTACHED TO THE TOP OF THE POST SHALL BE PRESSURE TREATED WOOD.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., AND CONFORM TO AASHTO M 181.

HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

SETTING POSTS

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03 AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

MOUNTING BOXES

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

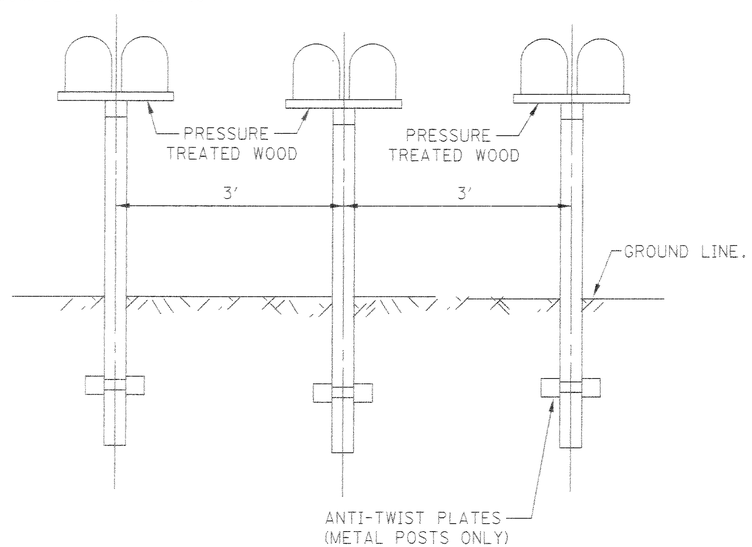
BASIS OF PAYMENT

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.12. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

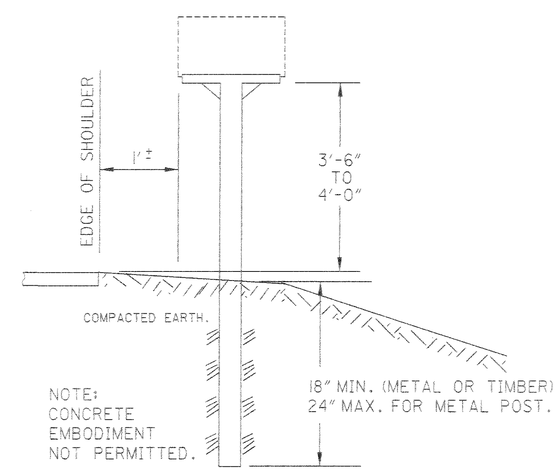
MAILBOX SUPPORTS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR THE TYPE SPECIFIED, COMPLETE IN PLACE.

PAYMENT WILL BE MADE UNDER:

ITEM	UNIT	DESCRIPTION
SPECIAL	EACH	MAILBOX SUPPORT SYSTEM SINGLE
SPECIAL	EACH	MAILBOX SUPPORT SYSTEM DOUBLE



GROUP MAILBOX INSTALLATION



TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT

CALCULATED CMS
CHECKED DRM

MAILBOX DETAILS AND QUANTITIES

FAI-158-7.38

FAI158GN2.DGN 10-22-99

SUPERELEVATION TABLE

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					
SHOULDER ELEVATION	WIDTH	EDGE ELEVATION	ELEVATION CORRECTION	WIDTH	STATION	PROFILE GRADE	WIDTH	ELEVATION CORRECTION	EDGE ELEVATION	WIDTH	SHOULDER ELEVATION	REMARKS
					S.R. 158							
EXIST.		957.20	-0.35	12'	306+50	957.55	12'	-0.39	957.16		EXIST.	GRAPHIC GRADE
		956.93	-0.28	12'	306+75	957.21	12'	-0.32	956.89			
956.36	18'	956.61	-0.25	12'	307+00	956.86	12'	-0.27	956.59	18'	956.34	
956.19	18'	956.44	-0.19	12'	307+16.17	956.63	12'	-0.19	956.44	18'	956.19	
956.06	18'	956.31	-0.19	12'	307+25.00	956.50	12'	-0.19	956.31	18'	956.06	
955.71	18'	955.96	-0.19	12'	307+50.00	956.15	12'	-0.14	956.01	18'	955.76	
955.35	18'	955.60	-0.19	12'	307+75.00	955.79	12'	-0.04	955.75	18'	955.50	
955.23	18'	955.48	-0.19	12'	307+83.18	955.67	12'	0.00	955.67	18'	955.42	
954.99	18'	955.24	-0.19	12'	308+00.00	955.43	12'	0.08	955.51	18'	955.26	
954.59	18'	954.84	-0.23	12'	308+25.00	955.07	12'	0.20	955.27	18'	955.02	
954.15	18'	954.40	-0.32	12'	308+50.00	954.72	12'	0.32	955.04	18'	954.79	
953.56	18'	953.91	-0.44	12'	308+75.00	954.35	12'	0.43	954.78	18'	954.83	
953.12	18'	953.40	-0.56	12'	309+00.00	953.96	12'	0.55	954.51	18'	954.58	
952.54	18'	952.88	-0.67	12'	309+25.00	953.55	12'	0.67	954.22	18'	954.32	
951.93	18'	952.33	-0.79	12'	309+50.00	953.12	12'	0.79	953.91	18'	954.03	
951.29	18'	951.75	-0.91	12'	309+75.00	952.66	12'	0.91	953.57	18'	953.72	
950.72	18'	951.21	-0.98	12'	310+00.00	952.19	12'	0.98	953.17	18'	953.33	
950.54	18'	951.04	-0.99	12'	310+08.18	952.03	12'	0.99	953.02	18'	953.19	
950.19	18'	950.69	-1.00	12'	310+25.00	951.69	12'	1.00	952.69	18'	952.86	
949.68	18'	950.18	-1.00	12'	310+50.00	951.18	12'	1.00	952.18	18'	952.35	
949.14	18'	949.64	-1.00	12'	310+75.00	950.64	12'	1.00	951.64	18'	951.81	
948.58	18'	949.08	-1.00	12'	311+00.00	950.08	12'	1.00	951.08	18'	951.25	
948.00	18'	948.50	-1.00	12'	311+25.00	949.50	12'	1.00	950.50	18'	950.67	
947.39	18'	947.89	-1.00	12'	311+50.00	948.89	12'	1.00	949.89	18'	950.06	
		947.27	-1.00	12'	311+75.00	948.27	12'	1.00	949.27	18'	949.44	
		946.63	-1.00	12'	312+00.00	947.63	12'	1.00	948.63	18'	948.80	
		945.96	-1.00	12'	312+25.00	946.96	12'	1.00	947.96			
		945.27	-1.00	12'	312+50.00	946.27	12'	1.00	947.27			
		944.56	-1.00	12'	312+75.00	945.56	12'	1.00	946.56			
943.33		943.83	-1.00	12'	313+00.00	944.83	12'	1.00	945.83			
942.58	18'	943.08	-1.00	12'	313+25.00	944.08	12'	1.00	945.08			
841.81	18'	942.31	-1.00	12'	313+50.00	943.31	12'	1.00	944.31	18'	944.48	
841.01	18'	941.51	-1.00	12'	313+75.00	942.51	12'	1.00	943.51	18'	943.68	
940.20	18'	940.70	-1.00	12'	314+00.00	941.70	12'	1.00	942.70	18'	942.87	
939.36	18'	939.86	-1.00	12'	314+25.00	940.86	12'	1.00	941.86	18'	942.03	
938.50	18'	939.00	-1.00	12'	314+50.00	940.00	12'	1.00	941.00	18'	941.17	
937.62	18'	938.12	-1.00	12'	314+75.00	939.12	12'	1.00	940.12	18'	940.29	
936.81	18'	937.31	-0.99	12'	314+97.90	938.30	12'	0.99	939.29	18'	939.46	
936.73	18'	937.23	-0.99	12'	315+00.00	938.22	12'	0.99	939.21	18'	939.38	
935.90	18'	936.37	-0.93	12'	315+25.00	937.30	12'	0.93	938.23	18'	938.38	
935.12	18'	935.53	-0.82	12'	315+50.00	936.35	12'	0.82	937.17	18'	937.30	
934.34	18'	934.69	-0.70	12'	315+75.00	935.39	12'	0.70	936.09	18'	936.20	
933.53	18'	933.82	-0.58	12'	316+00.00	934.40	12'	0.58	934.98	18'	935.07	
932.68	18'	932.93	-0.47	12'	316+25.00	933.40	12'	0.46	933.86	18'	933.92	
931.77	18'	932.02	-0.35	12'	316+50.00	932.37	12'	0.34	932.71	18'	932.74	

SUPERELEVATION TABLE

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					
SHOULDER ELEVATION	WIDTH	EDGE ELEVATION	ELEVATION CORRECTION	WIDTH	STATION	PROFILE GRADE	WIDTH	ELEVATION CORRECTION	EDGE ELEVATION	WIDTH	SHOULDER ELEVATION	REMARKS
930.83	18'	931.08	-0.25	12'	316+75.00	931.33	12'	0.23	931.56	18'	931.31	
929.84	18'	930.09	-0.20	12'	317+00.00	930.29	12'	0.11	930.40	18'	930.15	
928.90	18'	929.15	-0.19	12'	317+22.90	929.34	12'	0.00	929.34	18'	929.09	
928.81	18'	929.06	-0.19	12'	317+25.00	929.25	12'	-0.01	929.24	18'	928.99	
927.77	18'	928.02	-0.19	12'	317+50.00	928.21	12'	-0.12	928.09	18'	927.84	
926.73	18'	926.98	-0.19	12'	317+75.00	927.17	12'	-0.18	926.99	18'	926.74	
926.11	18'	926.36	-0.19	12'	317+89.89	926.55	12'	-0.19	926.36	18'	926.11	
925.64	18'	925.89	-0.26	12'	318+00	926.15	12'	-0.26	925.89	18'	925.64	GRAPHIC GRADE
924.60	18'	924.85	-0.28	12'	318+25	925.13	12'	-0.34	924.79	18'	924.54	
		923.82	-0.33	12'	318+50	924.15	12'	-0.41	923.74			
EXIST.		922.81	-0.45	12'	318+75	923.26	12'	-0.56	922.70		EXIST.	
				PLEASANTVILLE RD.								
		939.98	-.19	12'	1+94.8	940.17	12'	-.19	939.98			
		940.06	-.17	12'	2+00	940.23	12'	-.19	940.04			
		940.49	-.05	12'	2+25	940.54	12'	-.19	940.35			
		940.67	.00	12'	2+34.8	940.67	12'	-.19	940.48			
		940.95	.07	12'	2+50	940.88	12'	-.19	940.69			
		941.45	.19	12'	2+75	941.26	12'	-.19	941.07			
		941.97	.31	12'	3+00	941.66	12'	-.31	941.35			
		942.50	.43	12'	3+25	942.07	12'	-.43	941.64			
		943.03	.55	12'	3+50	942.48	12'	-.55	941.93			
		943.55	.66	12'	3+75	942.89	12'	-.53	942.36			
		943.71	.70	12'	3+82.20	943.01	12'	-.47	942.54			
		944.04	.74	12'	4+00	943.30	12'	-.25	943.05			
		944.25	.54	12'	4+25	943.71						
		944.32	.20	12'	4+50	944.12						

CALCULATED CMS
CHECKED DRM

SUPERELEVATION TABLE S.R. 158 & PLEASANTVILLE RD.

FAI-158-7.38

FAI158GST1.DGN

STATION FROM	TO	LIN. FT.	WIDTH FEET	SQ. YD.	448 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 CU. YD.	448 1¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22 CU. YD.	301 9" BITUMINOUS AGGREGATE BASE PG64-22 CU. YD.	301 6" BITUMINOUS AGGREGATE BASE PG64-22 CU. YD.	304 6" AGGREGATE BASE CU. YD.	304 8" AGGREGATE BASE CU. YD.	407 TACK COAT FOR INTERMEDIATE COURSE @ 0.05 GAL./S.Y. GAL.		203 SUBGRADE COMPACTION SQ. YD.	203 PROOF ROLLING HOURS	
S.R. 158															
306+50	318+75	1225.0	36	4900.0	170.1	238.2	1225.0		816.7		245.0		4900.0	2	
EXTRA AREA		1225.0	1	136			34.0								
EXTRA AREA		1225.0	2	273					45.5						
APPROACH LT.															
1+40	1+60	20.0	23.75	52.8	1.8	2.6		8.8	8.8		2.6		52.8		
1+60	4+87.22	327.22	24	872.6	30.3	42.4		145.4	145.4		43.6		872.6	1	
EXTRA AREA RADIUS LT.				28	1.0	1.4		4.7	4.7		1.4		28.0		
EXTRA AREA RADIUS RT.				166	5.8	8.1		27.7	27.7		8.3		166.0		
EXTRA AREA		747	0.33	27.4				4.6							
EXTRA AREA		747	0.83	68.9					11.5						
AGGREGATE SHOULDERS		(747'-102')	4	287						63.8					
APPROACH RT.															
5+12.75	6+50	137.25	24	366.0	12.7	17.8		61.0	61.0		18.3		366.0		
6+50	7+50	100.0	22.74	252.7	8.8	12.3		42.1	42.1		12.6		252.7	1	
EXTRA AREA RADIUS RT.				23	0.8	1.1		3.8	3.8		1.2		23.0		
EXTRA AREA RADIUS LT.				113	3.9	5.5		18.8	18.8		5.7		113.0		
EXTRA AREA		524	0.33	19.2				3.2							
EXTRA AREA		524	0.83	48.3					8.1						
AGGREGATE SHOULDERS		(524'-53')	4	209.3						46.5					
SUB-TOTALS							1259.0	320.1	1194.1	110.3					
TOTALS (CARRIED TO GENERAL SUMMARY)					235.2	329.4	1579.1		1304.4		338.7		6774.1	4	

CALCULATED CMS
CHECKED DRM

PAVEMENT CALCULATIONS

FAI-158-7.38

FAI158PCS.DGN

MARK	STATION	SIDE	CALCULATION	SQ. YD.	448 1¼" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG64-22 (FOR DRIVEWAYS) CU. YD.		301 3¾" BITUMINOUS AGGREGATE BASE PG64-22 (FOR DRIVEWAYS) CU. YD.	304 8" AGGREGATE BASE CU. YD.
	S.R. 158							
1-DR	307+10.0	RT.	14'x14.1'+14'x14'	43.7	1.5		4.6	
			14'x14.1'	21.9				4.9
2-DR	307+76.2	LT.	26.23'x12.9'+6'x12'+16.5'x33'	106.1	3.7		11.1	
3-DR	313+84.7	RT.	43.63'x10.2'+14'x14'	71.2	2.5		7.5	
4-DR	314+70.1	LT.	14.1'x9'+14'x14'	35.9	1.2		3.7	
			84.16'x9'	84.2				18.7
5-DR	314+92.5	RT.	33.89'x11.7'+14'x14'	65.8	2.3		6.9	
6-DR	315+58.8	RT.	14.09'x7.7'+14'x14'	33.8	1.2		3.5	
			17.4'x7.7'	14.9				3.3
7-DR	317+14.5	LT.	14'x13.7'+14'x14'	43.1	1.5		4.5	
			12.74'x13.7'	19.4				4.3
8-DR	317+79.2	RT.	14'x9.9'+14'x14'	37.2	1.3		3.9	
			5.78'x9.9'	6.4				1.4
	PLEASANTVILLE RD.							
9-DR	2+85.5	RT.	20'x14.2'+20'x20'	76.0	2.6		7.9	
	MAIL BOX APPROACH		6'x6'+21'x1'+21'x2.5'	12.2	0.4		1.3	
			3'x14.2'	4.7				1.0
10-DR	3+47.6	LT.	20'x11.3'+20'x20'	69.6	2.4		7.3	
11-DR	6+16.2	RT.	20'x17.1'+20'x20'	82.4	2.9		8.6	
			5'x17.1'	9.5				2.1
			TOTALS (CARRIED TO GENERAL SUMMARY)		23.5		70.8	35.7

CALCULATED CMS
CHECKED DRM

DRIVE CALCULATIONS

FAI-158-7.38

FAI158PCS2.DGN

MARK	STATION FROM	STATION TO	SIDE	202 PIPE REMOVED 24" AND UNDER (LIN. FT.)	202 CATCH BASIN REMOVED (EACH)	202 CATCH BASIN ABANDONED (EACH)	601 ROCK CHANNEL PROTECTION, TYPE D WITH FABRIC FILTER (CU. YD.)	602 CONCRETE MASONRY (CU. YD.)	603 8" CONDUIT, TYPE F (LIN. FT.)	603 12" CONDUIT, TYPE D (LIN. FT.)	603 18" CONDUIT, TYPE B (LIN. FT.)	604 CATCH BASIN NO. 2-2B, AS PER PLAN (EACH)	605 4" SHALLOW PIPE UNDERDRAIN (12" DEPTH) (LIN. FT.)	605 4" SHALLOW PIPE UNDERDRAIN (30" DEPTH) (LIN. FT.)	603 6" CONDUIT, TYPE F (UNDERDRAIN OUTLETS) (LIN. FT.)	604 PRECAST REINFORCED CONCRETE OUTLET (EACH)	BENDS (INFORMATION ONLY) EACH WYE	BENDS EACH 45°	BENDS EACH 90°
	S.R. 158																		
1-D	306+91.8	307+27.8	RT.	22						36									
2-D	314+50.8	314+85.8	LT.							34									
3-D	314+76.6	315+15.6	RT.							40									
4-D	315+46.2	315+80.5	RT.	24						35									
5-D	316+96.2	317+34.3	LT.	30						38									
6-D	317+62.4	318+00.4	RT.	24						38									
3-S	313+04.4 LT.	318+11.6 RT.					2.2	0.33			100								
1-U	306+50.0	312+00.0	RT.											550	30	1			1
2-U	306+50.0	312+05.0	LT.											555	77	1	1		2
3-U	306+50.0	312+05.0	LT.										555					1	
4-U	313+25.0	318+50.0	RT.											525	86	1			3
5-U	313+25.0	318+50.0	LT.											525	112	1	1		3
6-U	313+25.0	318+50.0	LT.										525					1	
	PLEASANTVILLE RD.																		
7-D	2+60.5	3+07.5	RT.	25						47									
8-D	3+10.0	3+57.0	LT.	47															
9-D	5+97.0	6+35.9	RT.	31						39									
1-S	5+70		RT. & LT.					0.33			67	1							
2-S	5+70	6+79	LT.			1			111										
1-R	313+05 LT.	5+72.5	RT.	104	1														
	(S.R. 158)																		
TOTALS (CARRIED TO GENERAL SUMMARY)				307	1	1	2.2	0.66	111	307	167	1	1080	2155	305	4	2	2	9

CALCULATED CMS
CHECKED DRM

DRAINAGE QUANTITIES

FAI-158-7.38

FAII58PCS4.DGN

SHEET NUMBER 7	8	9	11	13	17	18	25	29	31	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
														ROADWAY	
LUMP										201	11000	LUMP		CLEARING AND GRUBBING	
				307						202	35100	307	LIN. FT.	PIPE REMOVED 24" AND UNDER	
	32									202	54100	32	EACH	RAISED PAVEMENT MARKER REMOVED FOR STORAGE	
				1						202	58100	1	EACH	CATCH BASIN REMOVED	
				1						202	58500	1	EACH	CATCH BASIN ABANDONED	
										202	11000	LUMP		STRUCTURE REMOVED: 1 1/2 STORY FRAME HOUSE	
										202	11000	LUMP		STRUCTURE REMOVED: FRAME SHED	
							4645	826	416	203	12000	5887	CU. YD.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION	
							410	152	362	203	20000	924	CU. YD.	EMBANKMENT	
			4							203	45000	4	HOURS	PROOF ROLLING	
			6775							203	50000	6775	SQ. YD.	SUBGRADE COMPACTION	
		5								SPECIAL	69050100	5	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	
		1								SPECIAL	69050200	1	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE	
														EROSION CONTROL	
	5									601	32204	5	CU. YD.	ROCK CHANNEL PROTECTION, TYPE C WITH FABRIC FILTER	
				3						601	32304	3	CU. YD.	ROCK CHANNEL PROTECTION, TYPE D WITH FABRIC FILTER	
10662										870	10000	10662	SQ. YD.	SEEDING AND MULCHING	
1										870	20000	1	TON	COMMERCIAL FERTILIZER	
2										870	30000	2	TON	AGRICULTURAL LIMING	
23										870	35000	23	M. GAL.	WATER	
					62	363				670	40000	425	SQ. YD.	DITCH EROSION PROTECTION	
2100										877	10000	2100	SQ. YD.	TEMPORARY SEEDING AND MULCHING	
300										877	30300	300	LIN. FT.	TEMPORARY INLET PROTECTION FILTER FABRIC FENCE	
														DRAINAGE	
				0.66						602	20000	0.66	CU. YD.	CONCRETE MASONRY	
	50									603	00900	50	LIN. FT.	6" CONDUIT, TYPE B	
	50									603	01400	50	LIN. FT.	6" CONDUIT, TYPE E	
	100			305						603	01500	405	LIN. FT.	6" CONDUIT, TYPE F	
	50									603	01800	50	LIN. FT.	8" CONDUIT, TYPE B	
	50									603	02500	50	LIN. FT.	8" CONDUIT, TYPE E	
	50			111						603	02600	161	LIN. FT.	8" CONDUIT, TYPE F	
				307						603	04900	307	LIN. FT.	12" CONDUIT, TYPE D	
				167						603	07400	167	LIN. FT.	18" CONDUIT, TYPE B	
				1						604	04501	1	EACH	CATCH BASIN NO. 2-2B, AS PER PLAN	8
				4						604	36600	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	
				1080						605	05100	1080	LIN. FT.	4" SHALLOW PIPE UNDERDRAIN (12" DEPTH)	
				2155						605	05100	2155	LIN. FT.	4" SHALLOW PIPE UNDERDRAIN (30" DEPTH)	

CALCULATED CMS
CHECKED DRM

GENERAL SUMMARY

FAI-158-7.38

FAI158GGSI.DWG

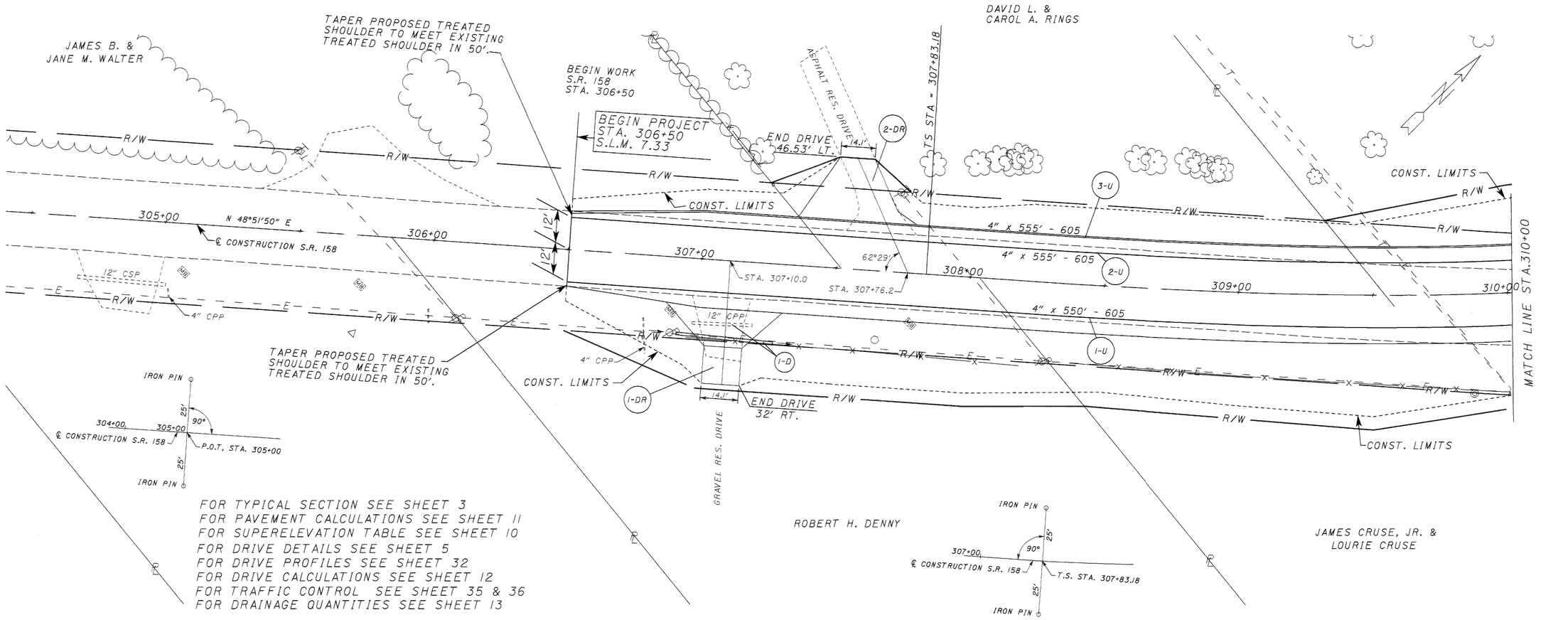
SHEET NUMBER											ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		8		11		12		36								
															GENERAL SUMMARY CONTINUED	
															PAVEMENT	
				1580							301	46000	1580	CU. YD.	BITUMINOUS AGGREGATE BASE, PG64-22	
						71					301	48000	71	CU. YD.	BITUMINOUS AGGREGATE BASE, PG64-22 (FOR DRIVEWAYS)	
		75		1305		36					304	20000	1416	CU. YD.	AGGREGATE BASE	
				339							407	14000	339	GAL.	TACK COAT FOR INTERMEDIATE COURSE	
				330							448	46050	330	CU. YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22	
				236							448	47020	236	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	
						24					448	48020	24	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (FOR DRIVEWAYS)	
															TRAFFIC CONTROL	
		25									621	00100	25	EACH	RAISED PAVEMENT MARKER	
								99			630	02100	99	LIN. FT.	GROUND MOUNTED SUPPORTS, NO. 2 POST, TYPE S	
								26			630	03100	26	LIN. FT.	GROUND MOUNTED SUPPORTS, NO. 3 POST, TYPE S	
								63			630	80102	63	SQ. FT.	SIGN, FLAT SHEET, TYPE G	
								23			630	84900	23	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
								4			630	85100	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
								18			630	86002	18	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORTS AND DISPOSAL	
								0.67			642	00100	0.67	MILE	EDGE LINE, TYPE 1	
								0.34			642	00300	0.34	MILE	CENTER LINE, TYPE 1	
								102			644	00500	102	LIN. FT.	STOP LINE	
															MAINTENANCE OF TRAFFIC	
		7									616	10000	7	M. GAL.	WATER	
		1									616	20000	1	TON	CALCIUM CHLORIDE	
											806	16000	2	MONTH	FIELD OFFICE, TYPE A	
		LUMP									614	11000	LUMP		MAINTAINING TRAFFIC	
											623	10000	LUMP		CONSTRUCTION LAYOUT STAKES	
											624	10000	LUMP		MOBILIZATION	

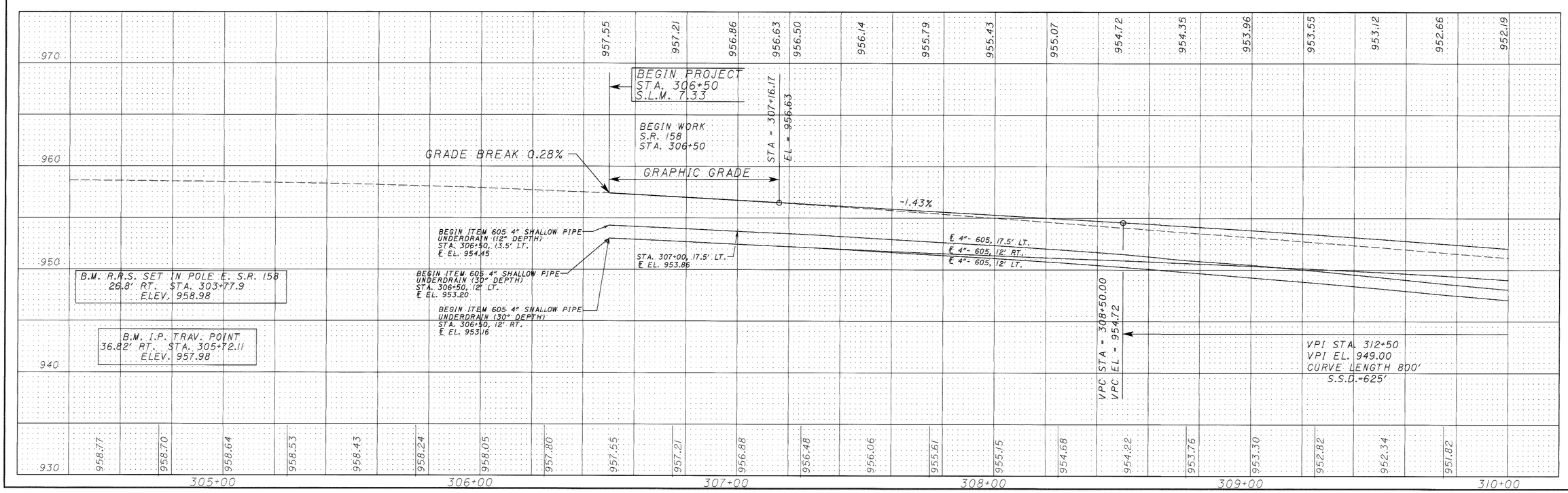
CALCULATED CMS
CHECKED DRM

GENERAL SUMMARY

FAI-158-7.38

FAI158GCS2.DWG





HORIZONTAL SCALE IN FEET 0 20 40

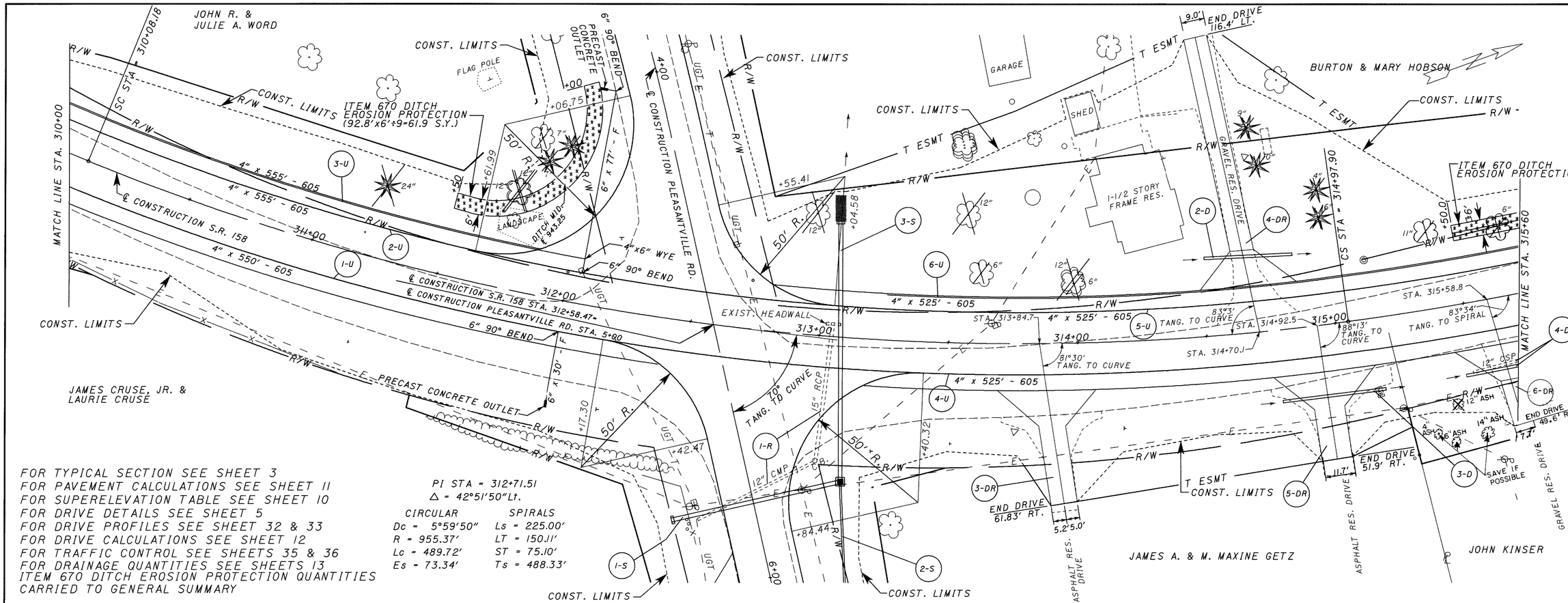
CALCULATED CMS
CHECKED DRM

PLAN AND PROFILE
305+00-310+00

FAI-158-7.38

16
45

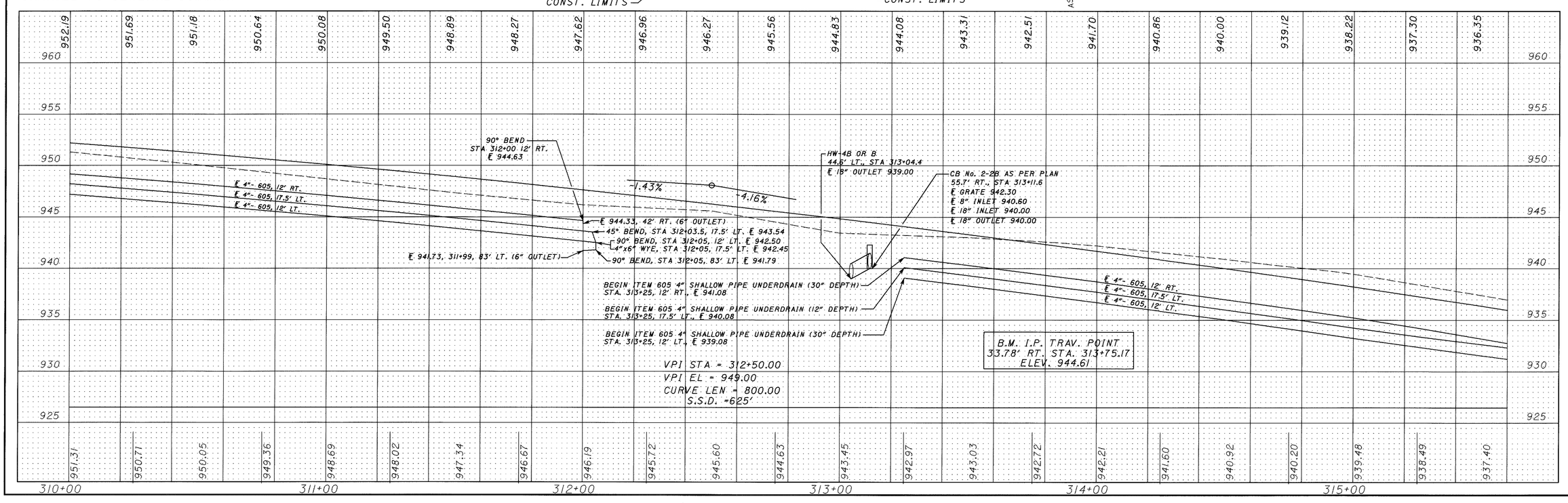
FAI158PPPI.DGN



FOR TYPICAL SECTION SEE SHEET 3
FOR PAVEMENT CALCULATIONS SEE SHEET 11
FOR SUPERELEVATION TABLE SEE SHEET 10
FOR DRIVE DETAILS SEE SHEET 5
FOR DRIVE PROFILES SEE SHEET 32 & 33
FOR DRIVE CALCULATIONS SEE SHEET 12
FOR TRAFFIC CONTROL SEE SHEETS 35 & 36
FOR DRAINAGE QUANTITIES SEE SHEETS 13
ITEM 670 DITCH EROSION PROTECTION QUANTITIES CARRIED TO GENERAL SUMMARY

PI STA = 312+71.51
Δ = 42°51'50" Lt.

CIRCULAR	SPIRALS
Dc = 5°59'50"	Ls = 225.00'
R = 955.37'	LT = 150.11'
Lc = 489.72'	ST = 75.10'
Es = 73.34'	Ts = 488.33'



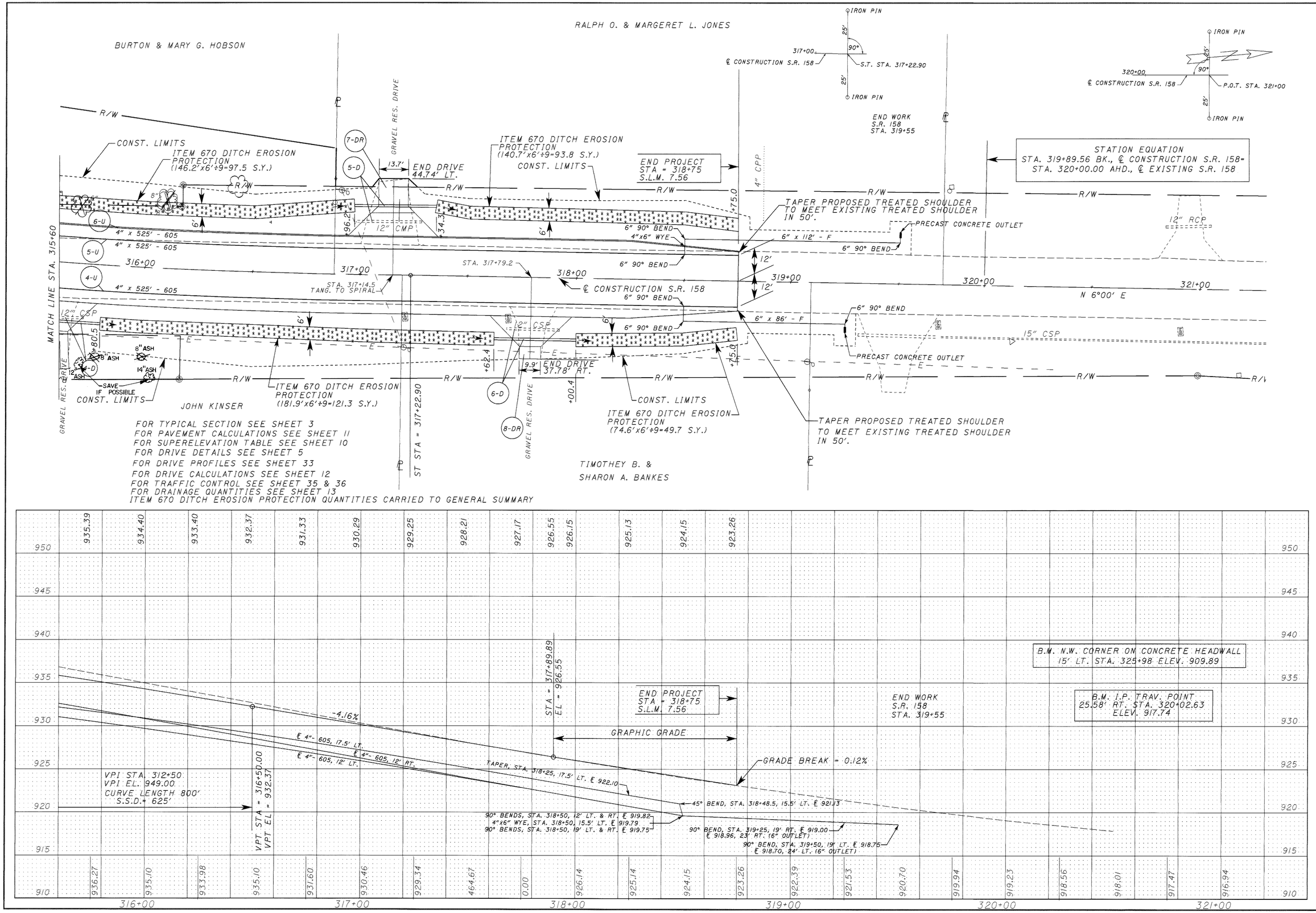
HORIZONTAL SCALE IN FEET 0 20 40

CALCULATED CMS
CHECKED DRM

PLAN AND PROFILE
310+00-315+60

FAI-158-7.38

FAI158PPP2.DGN



HORIZONTAL SCALE IN FEET 0 20 40

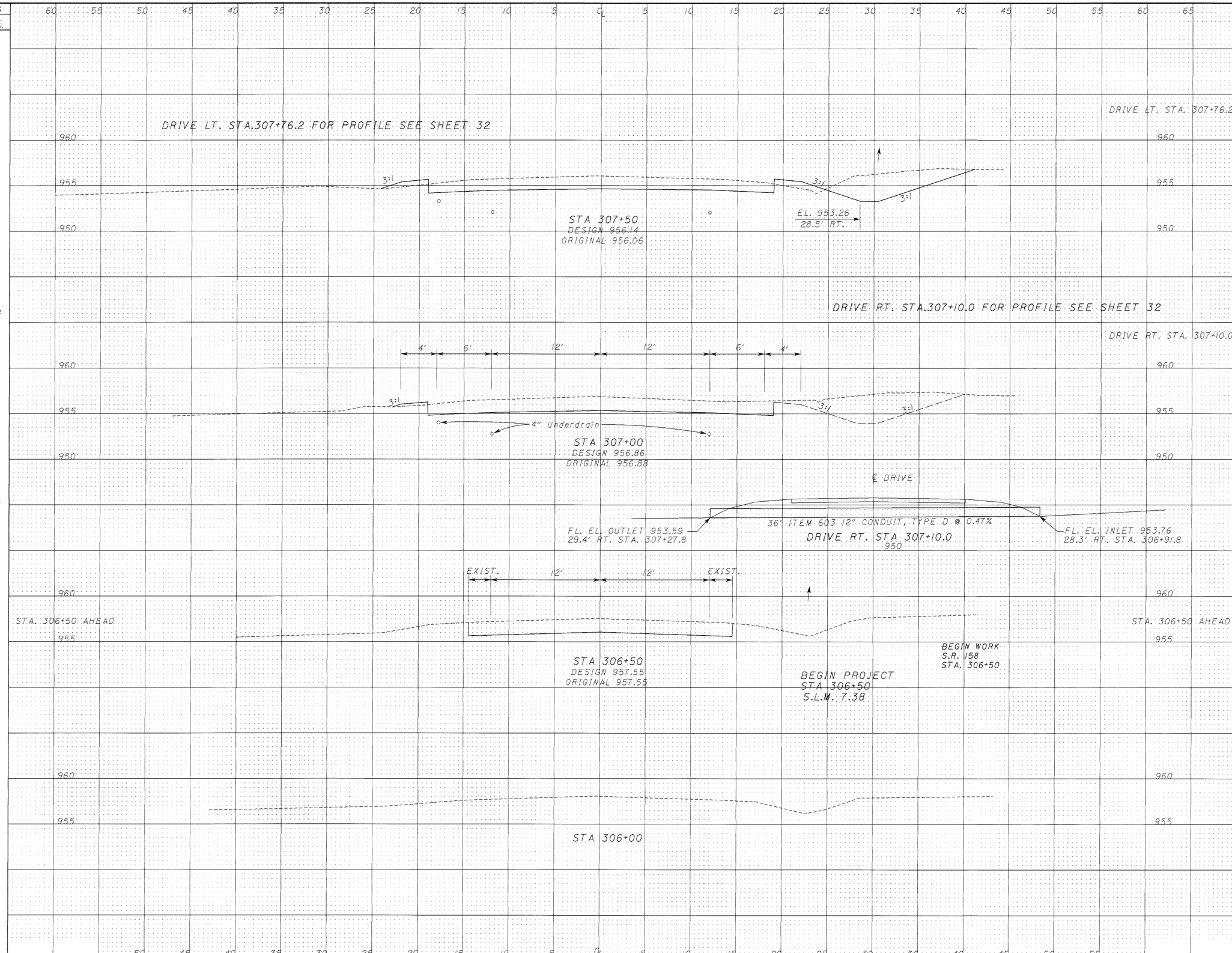
CALCULATED CMS
CHECKED DRM

PLAN AND PROFILE
STA. 315+60-STA. 320+00

FAI-158-7.38

FAI158PPP3.DGN

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
49				6	0
		77	6		
				154	6
	264				
				5	3
46		89	1		
	183			123	1
20		44	0		



CALCULATED CMS
CHECKED DRM

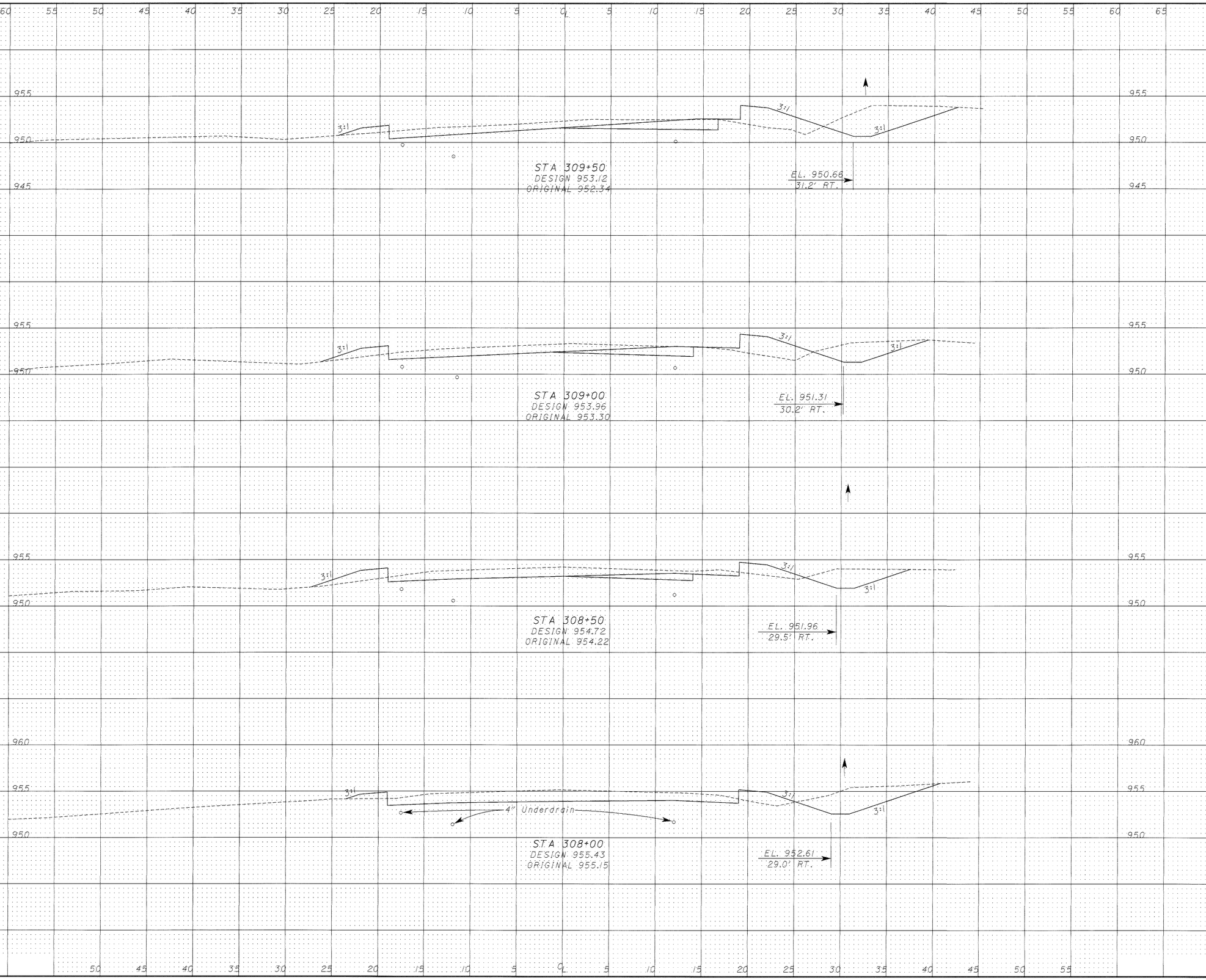
CROSS SECTIONS
S.R. 158 STA. 306+00 TO STA. 307+50

FAI-158-7.38

19
45

FAI158PXS1.DGN

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
50	278	59	18	96	35
50	272	45	19	86	31
48	261	48	14	100	21
46	264	60	8	127	13



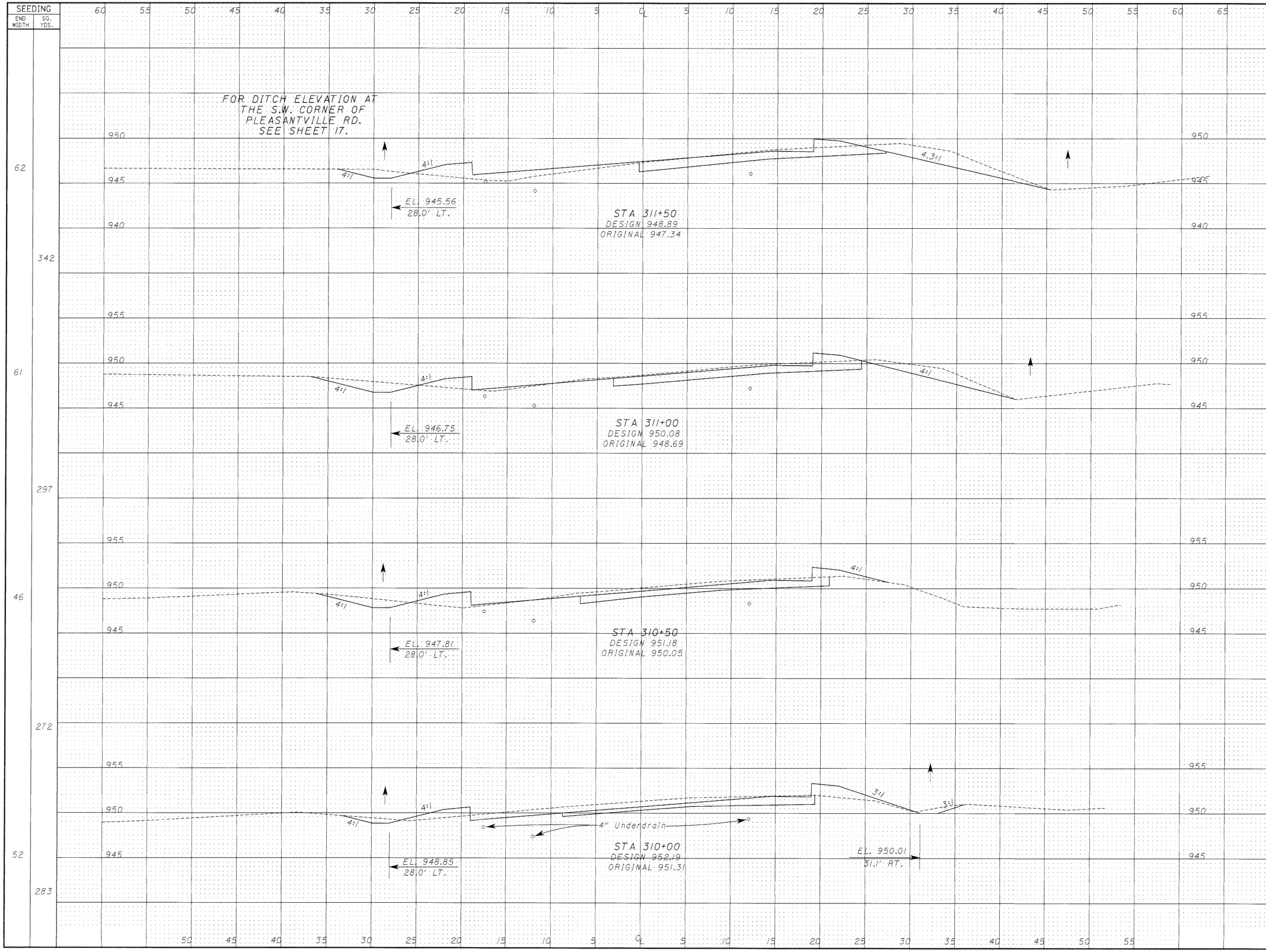
CALCULATED CMS
CHECKED DRM

CROSS SECTIONS
STA. 308+00 TO STA. 309+50

S.R. 158

FAI-158-7.38

FAI158PXS2.DGN



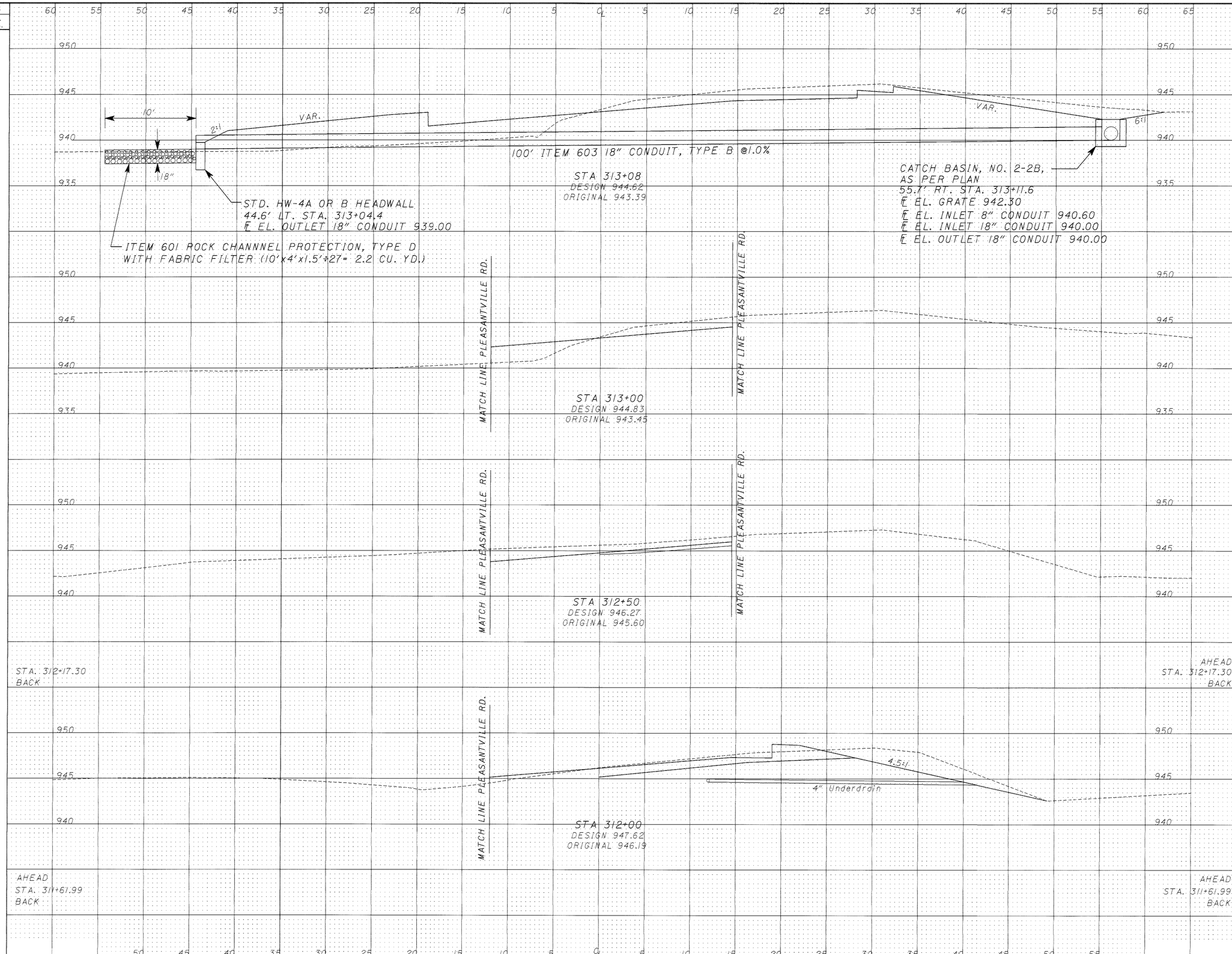
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
62	342	56	21	98	28
61	297	49	10	78	20
46	272	35	12	64	26
52	283	35	17	87	32

CALCULATED CMS
CHECKED DRM

CROSS SECTIONS
S.R. 158 STA. 310+00 TO STA. 311+50

FAI-158-7.38

FAI158PXS3.DGN



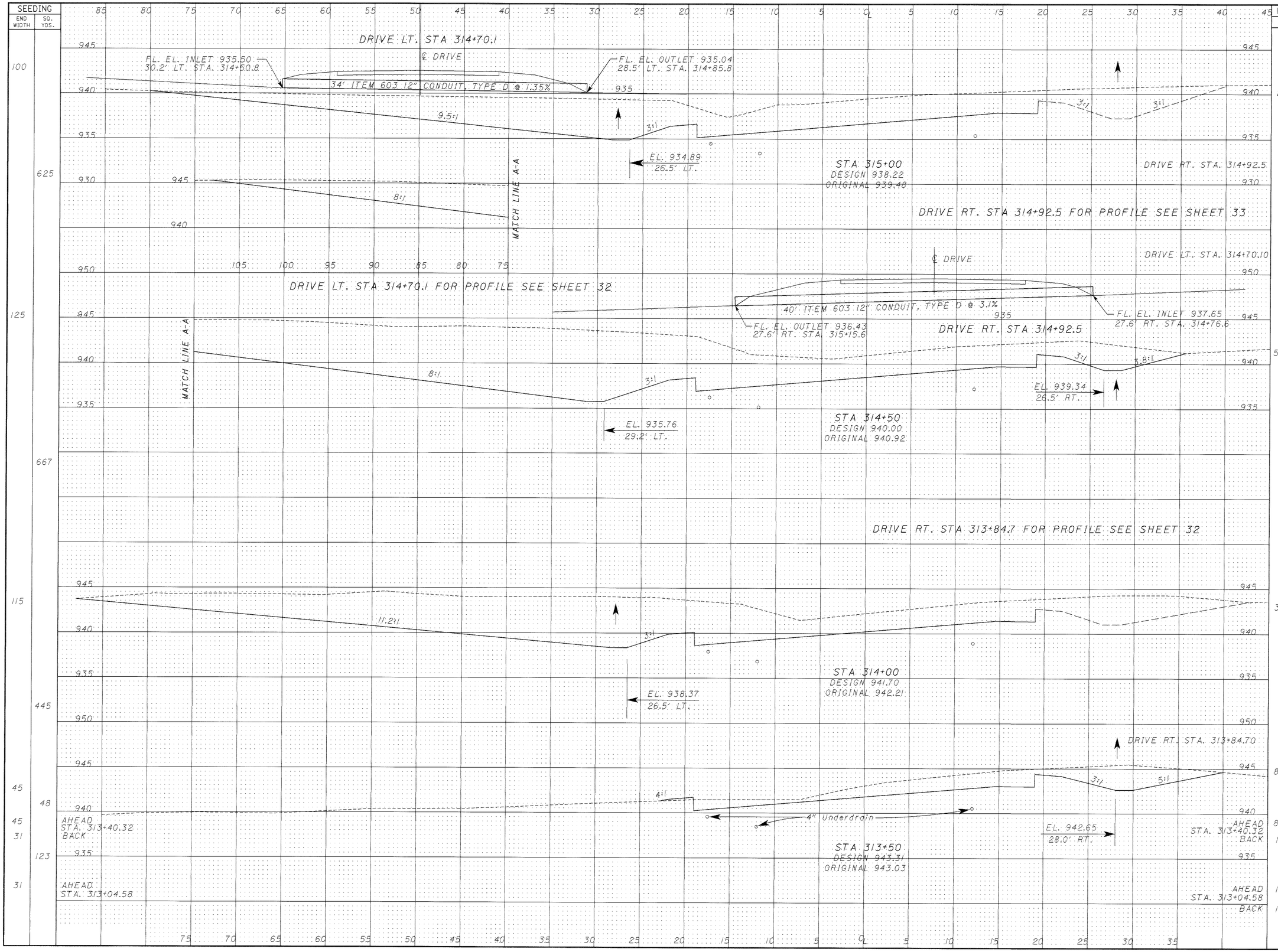
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		13	0		
				38	0
		28	0		
				34	0
51		28	0		
		56	6		
	98			36	4
51					
		56	6		
	215			79	19
51		56	6		
62		56	21		
	83			25	9

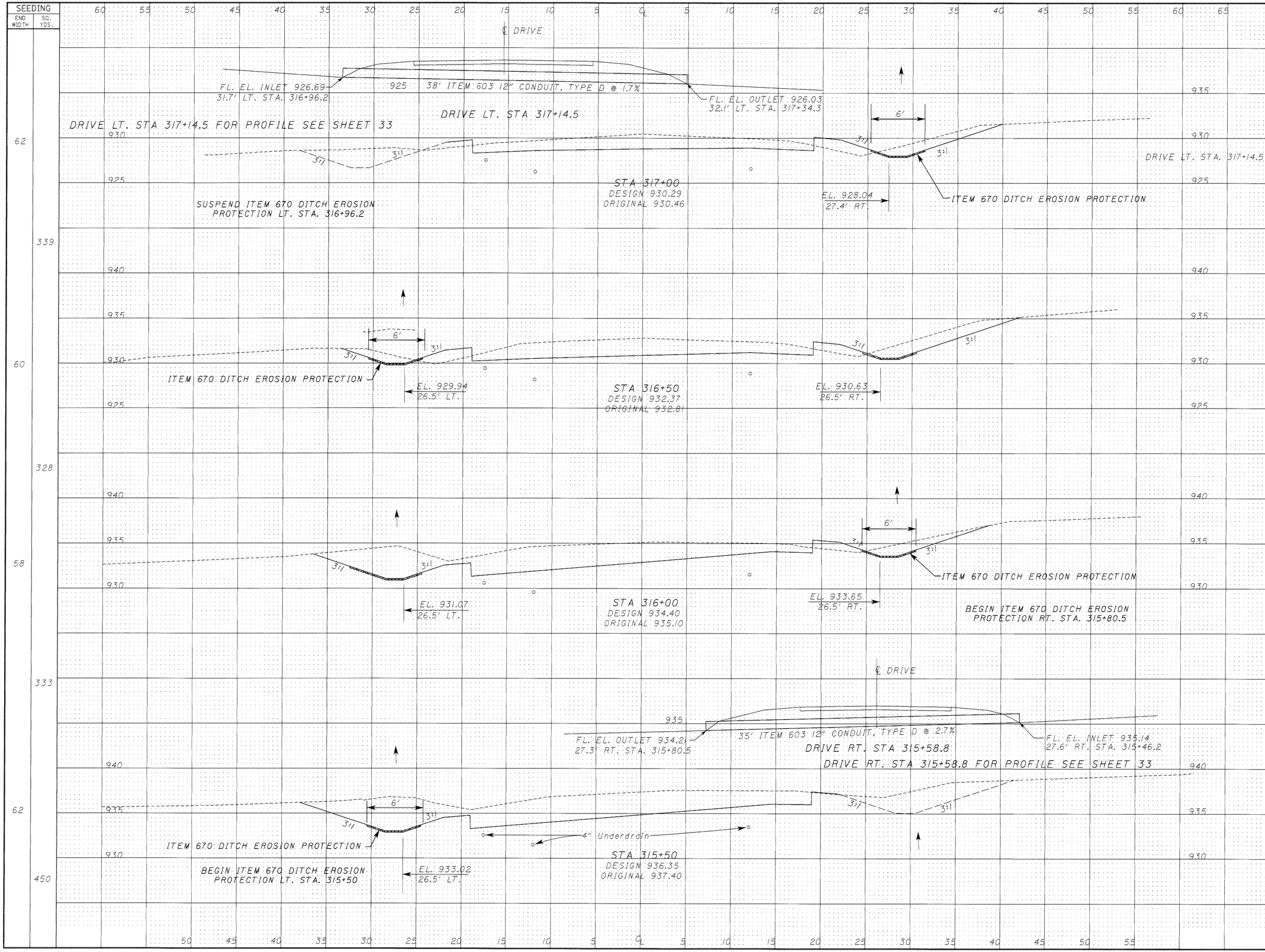
CALCULATED CMS
CHECKED DRM

CROSS SECTIONS
S.R. 158 STA. 312+00 TO STA. 313+50

FAI-158-7.38

FAI158PXS4.DGN


SEEDING
END WIDTH
SQ. YDS.
DRIVE LT. STA 314+70.1
℄ DRIVE
FL. EL. INLET 935.50
30.2' LT. STA. 314+50.8
FL. EL. OUTLET 935.04
28.5' LT. STA. 314+85.8
34' ITEM 603 12" CONDUIT, TYPE D @ 1.35%
9.5:1
3:1
EL. 934.89
26.5' LT.
STA 315+00
DESIGN 938.22
ORIGINAL 939.48
DRIVE RT. STA. 314+92.5
DRIVE RT. STA 314+92.5 FOR PROFILE SEE SHEET 33
8:1
MATCH LINE A-A
DRIVE LT. STA. 314+70.10
DRIVE LT. STA 314+70.1 FOR PROFILE SEE SHEET 32
40' ITEM 603 12" CONDUIT, TYPE D @ 3.1%
FL. EL. OUTLET 936.43
27.6' RT. STA. 315+15.6
FL. EL. INLET 937.65
27.6' RT. STA. 314+76.6
DRIVE RT. STA 314+92.5
3.8:1
EL. 939.34
26.5' RT.
EL. 935.76
29.2' LT.
STA 314+50
DESIGN 940.00
ORIGINAL 940.92
DRIVE RT. STA 313+84.7 FOR PROFILE SEE SHEET 32
11.2:1
EL. 938.37
26.5' LT.
STA 314+00
DESIGN 941.70
ORIGINAL 942.21
DRIVE RT. STA. 313+84.70
4:1
5:1
4" Underdrain
EL. 942.65
28.0' RT.
STA 313+50
DESIGN 943.31
ORIGINAL 943.03
AHEAD
STA. 313+40.32
BACK
AHEAD
STA. 313+04.58
END AREA
CUT
FILL
VOLUME
CUT
FILL
CALCULATED CMS
CHECKED DRM
CROSS SECTIONS
S.R. 158 STA. 313+50 TO STA. 315+00
FAI-158-7.38
23
45
FAI158PXS5.DGN



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
50	10		
		2	8
		127	19
87	11		
		187	14
115	4		
		235	4
139	0		
		394	0

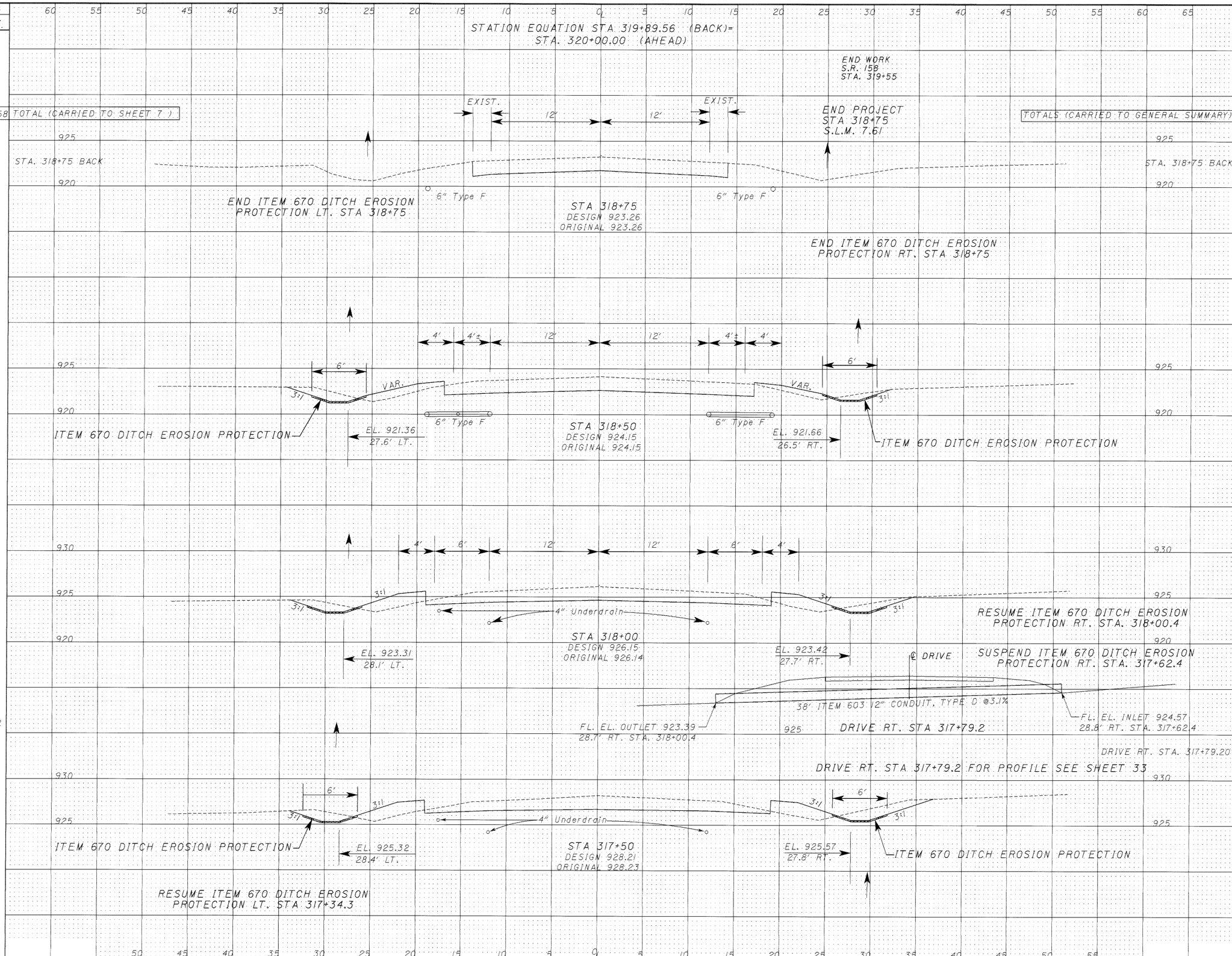
CALCULATED CMS
CHECKED DRM

CROSS SECTIONS
S.R. 158 STA. 313+50 TO STA. 317+00

FAI-158-7.38

FAI158PXS6.DGN

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	7458	TOTAL (CARRIED TO SHEET 7)			4645	410
20	96	STA. 318+75 BACK	58	0	54	5
49	281		59	11	105	26
52	292		54	16	90	31
53	319		43	17	86	25

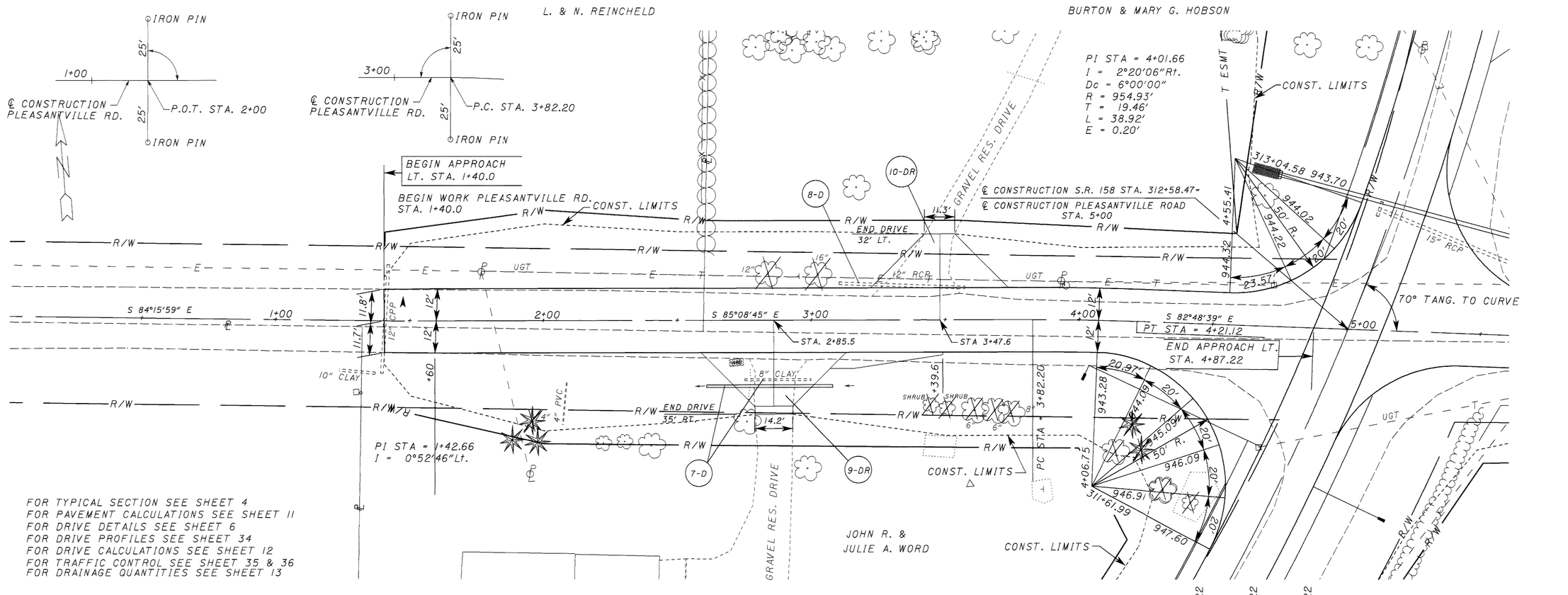


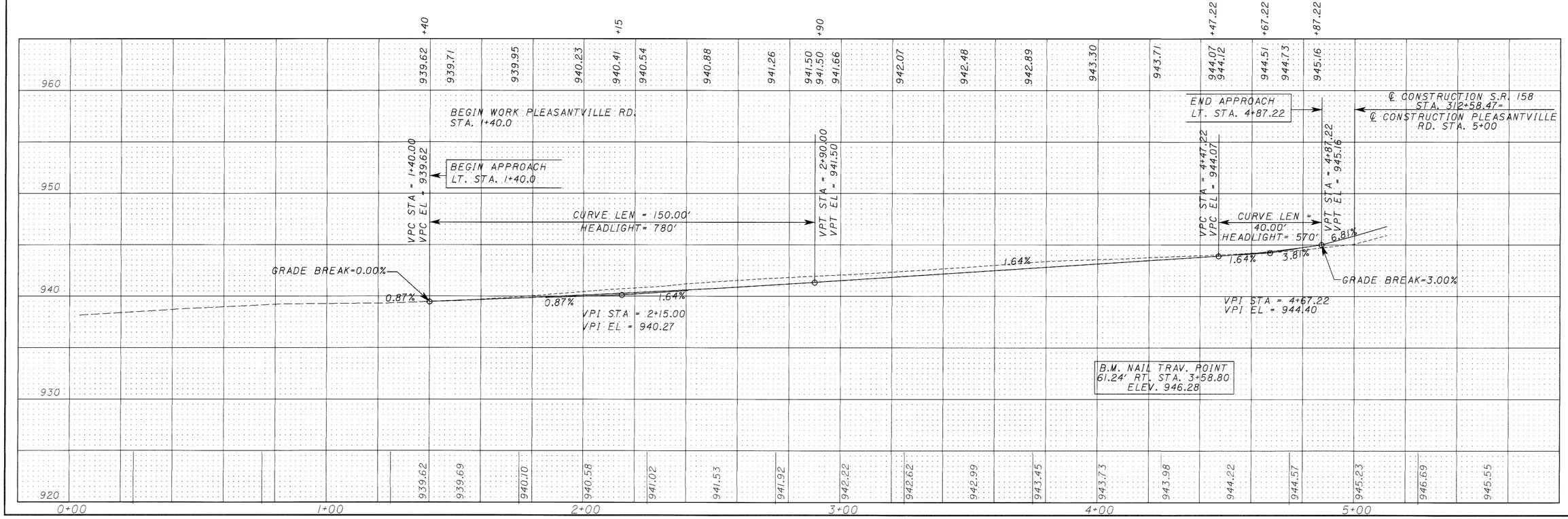
CALCULATED CMS
CHECKED DRM

CROSS SECTIONS
S.R. 158 STA. 317+50 TO STA. 318+75

FAI-158-7.38

FAI158PXS7.DGN





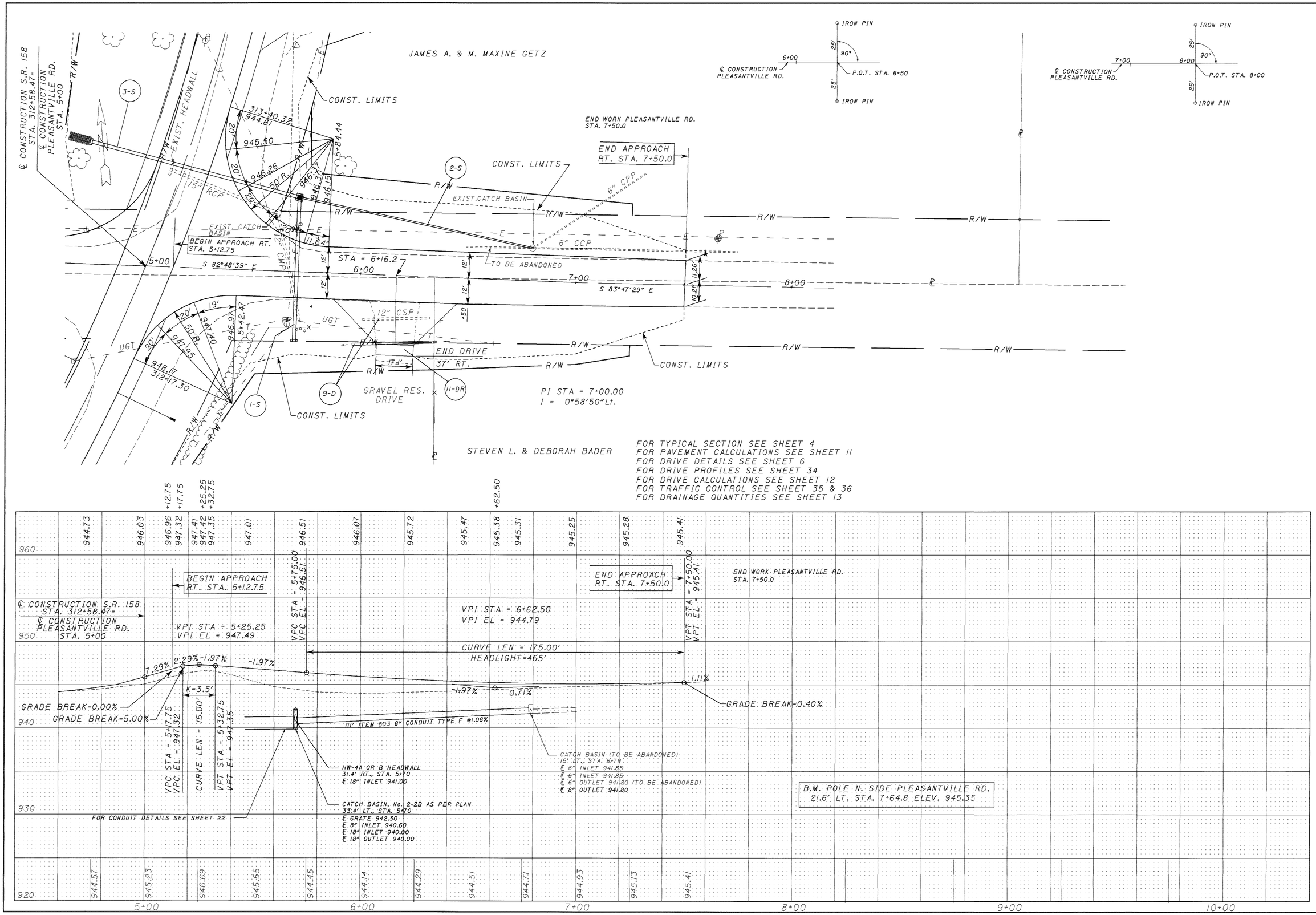
FAI158PPP4.DGN

HORIZONTAL SCALE IN FEET

CALCULATED CMS
CHECKED DRM

PLAN AND PROFILE
PLEASANTVILLE RD. LT. STA. 1+40 - STA. 4+87.22

FAI-158-7.38



HORIZONTAL SCALE IN FEET

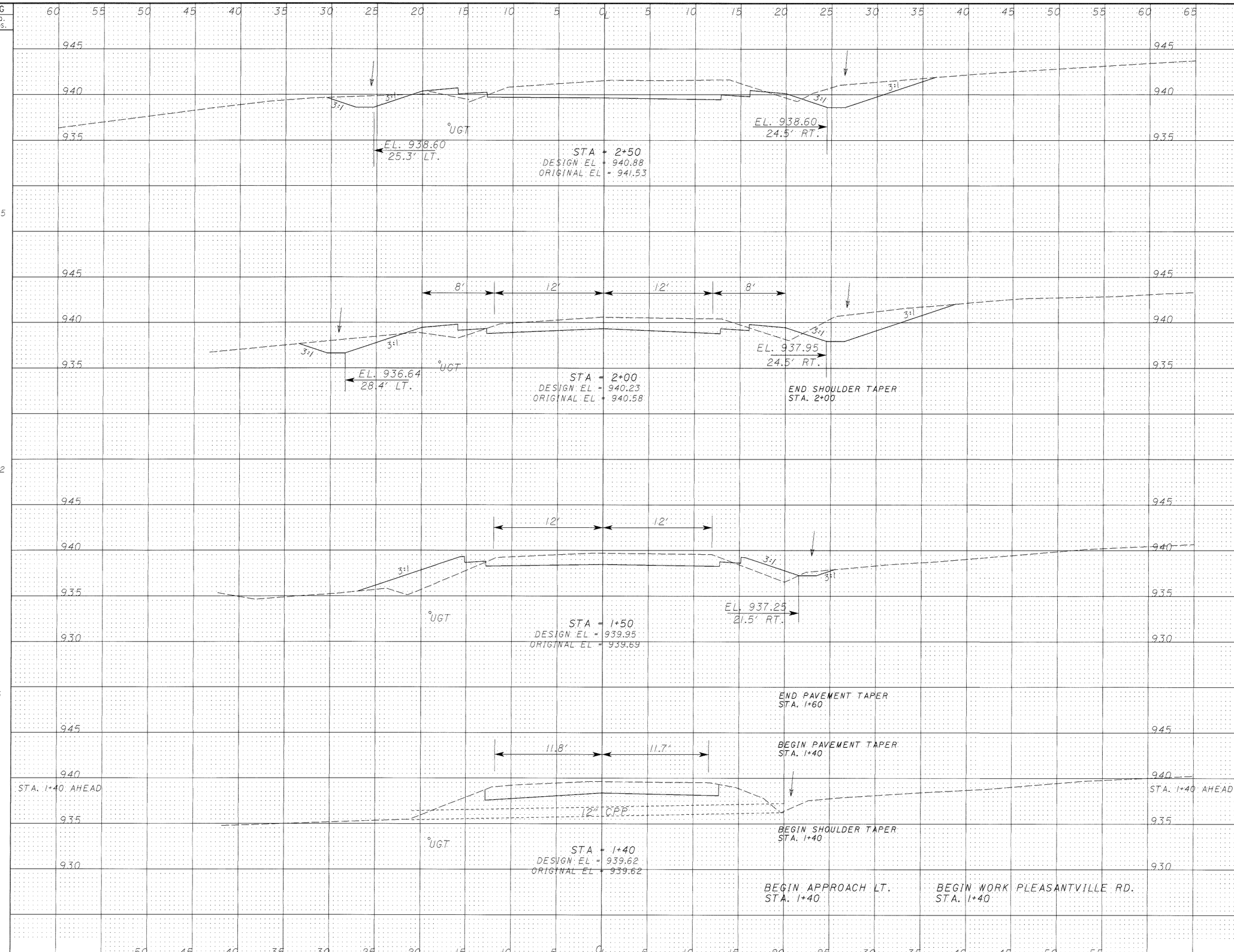
CALCULATED CMS
CHECKED DRM

PLAN AND PROFILE
PLEASANTVILLE RD. RT. STA. 5+12.75 - STA. 7+50

FAI-158-7.38

FAI158PPP5.DGN

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
56	325	78	4	138	14
61		71	11		
44	292	32	25	95	33
20	36	38	0	13	4

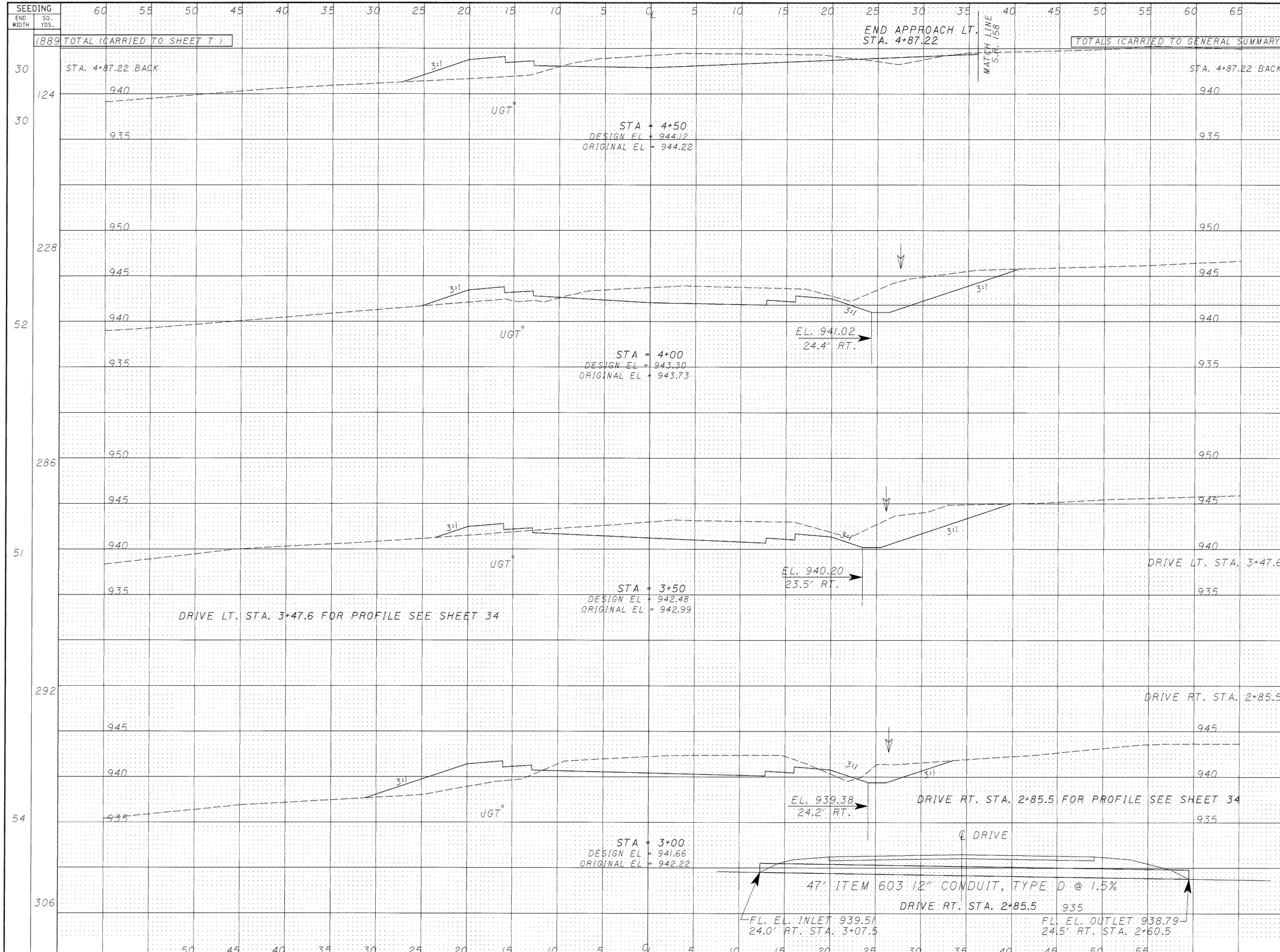


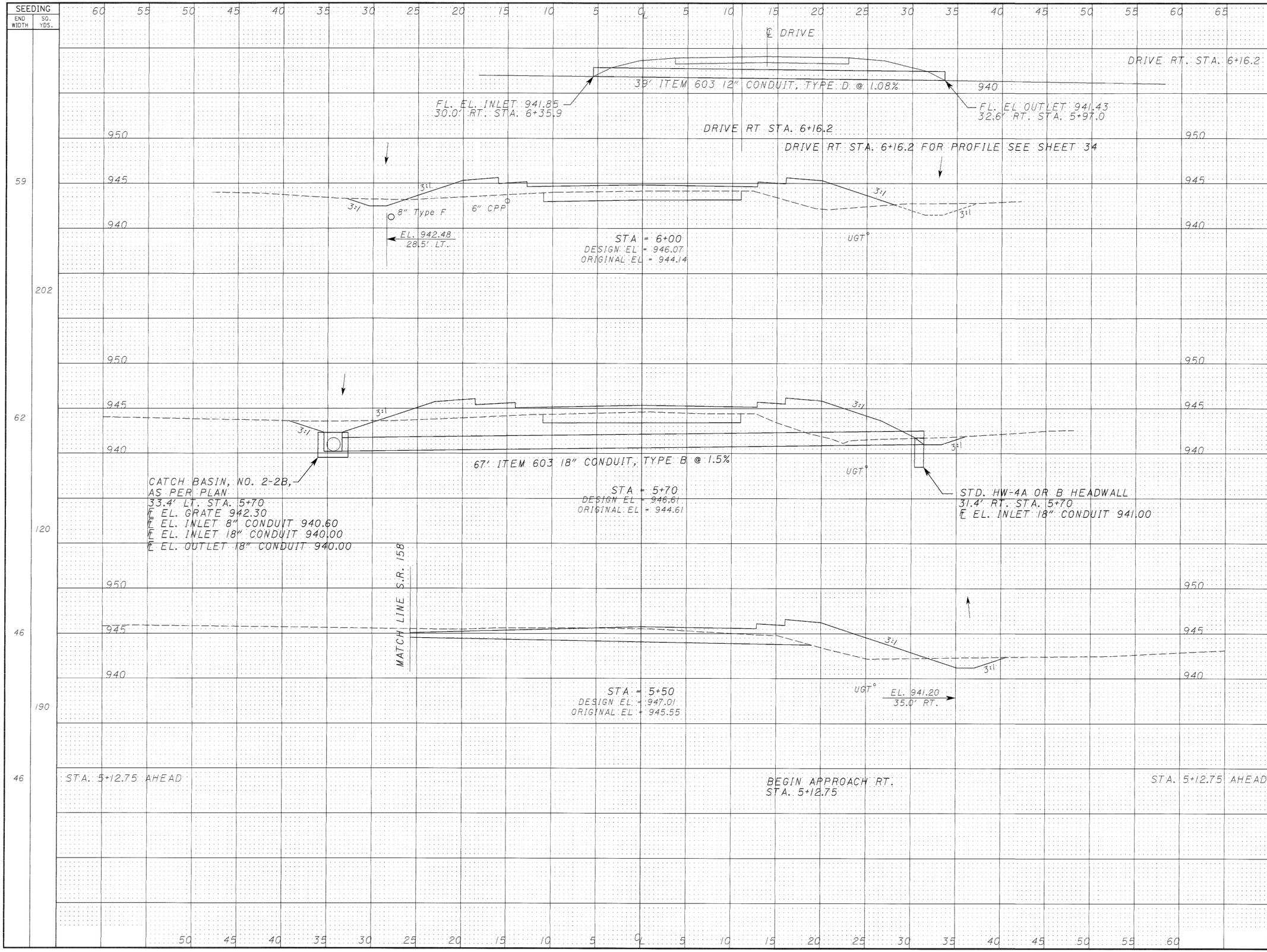
CALCULATED CMS
CHECKED DRM

CROSS SECTIONS
PLEASANTVILLE RD. STA. 1+40 TO STA. 2+50

FAI-158-7.38

FAI158PXS8.DGN


SEEDING
END WIDTH
SQ. YDS.
1889 TOTAL (CARRIED TO SHEET 7)
END APPROACH LT.
STA. 4+87.22
MATCH LINE S.R. 158
TOTALS (CARRIED TO GENERAL SUMMARY)
STA. 4+87.22 BACK
STA = 4+50
DESIGN EL = 944.12
ORIGINAL EL = 944.22
STA = 4+00
DESIGN EL = 943.30
ORIGINAL EL = 943.73
EL. 941.02
24.4' RT.
STA = 3+50
DESIGN EL = 942.48
ORIGINAL EL = 942.99
EL. 940.20
23.5' RT.
DRIVE LT. STA. 3+47.6 FOR PROFILE SEE SHEET 34
DRIVE LT. STA. 3+47.6
DRIVE RT. STA. 2+85.5
EL. 939.38
24.2' RT.
DRIVE RT. STA. 2+85.5 FOR PROFILE SEE SHEET 34
STA = 3+00
DESIGN EL = 941.66
ORIGINAL EL = 942.22
℄ DRIVE
47' ITEM 603 12" CONDUIT, TYPE D @ 1.5%
DRIVE RT. STA. 2+85.5
FL. EL. INLET 939.51
24.0' RT. STA. 3+07.5
FL. EL. OUTLET 938.79
24.5' RT. STA. 2+60.5
UGT
3:1
940
935
950
945
30
124
30
228
52
286
51
292
54
306
END AREA
CUT
FILL
VOLUME
CUT
FILL
826
152
33
19
46
26
33
19
105
20
81
2
157
3
89
1
2
0
140
22
62
22
0
5
130
25
CALCULATED
CMS
CHECKED
DRM
CROSS SECTIONS
PLEASANTVILLE RD. STA. 3+00 TO STA. 4+87.22
FAI-158-7.38
29
45
FAI158PXS9.DGN



CALCULATED CMS
CHECKED DRM

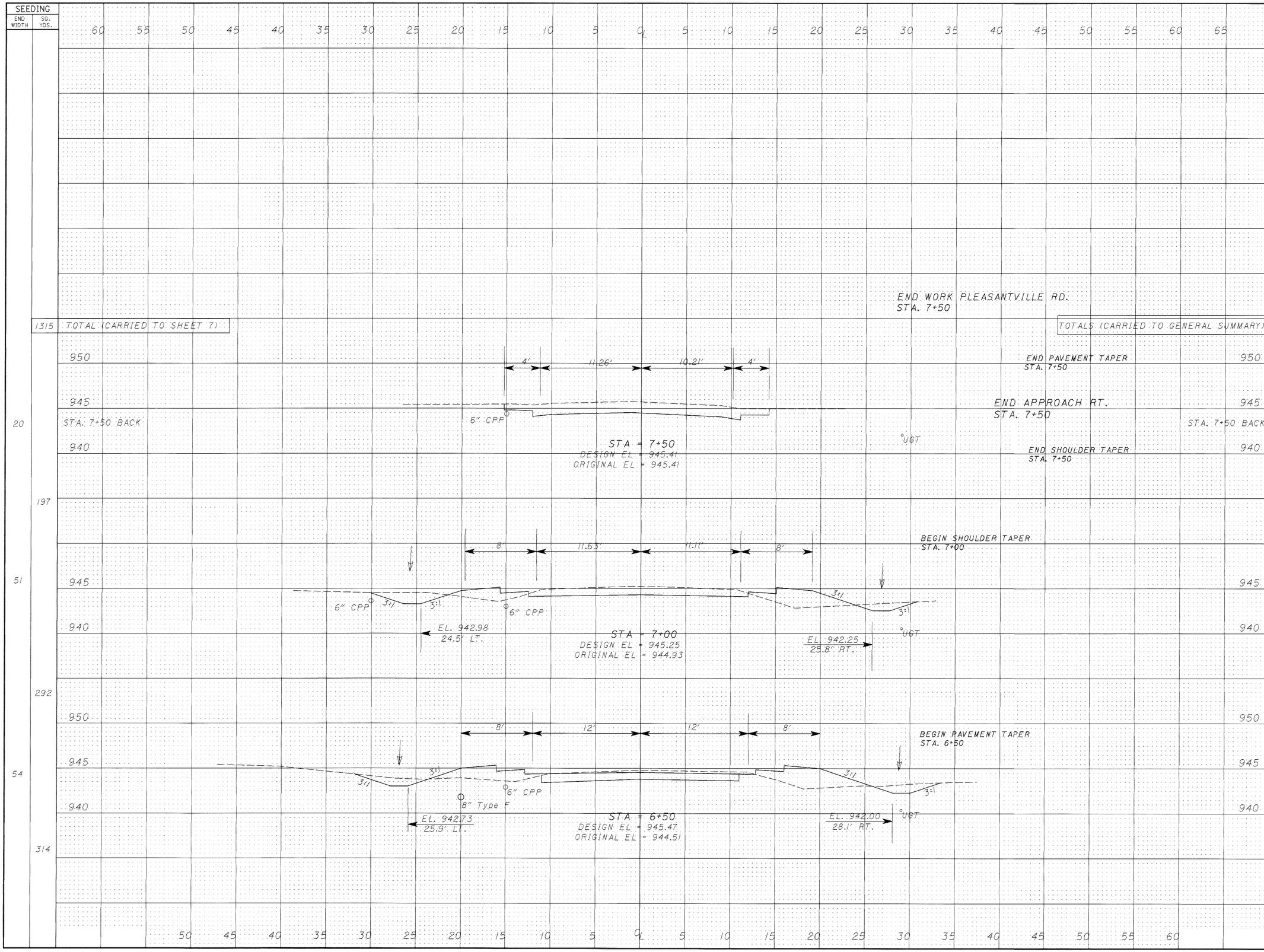
CROSS SECTIONS
PLEASANTVILLE RD. STA. 5+12.75 TO STA. 6+00

FAI-158-7.38

30
45

FAI158PXS10.DGN

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	1315	TOTAL (CARRIED TO SHEET 7)			416	362
20	197	STA. 7+50 BACK	33	0	71	19
51	292		43	21	83	46
54	314		28	29	83	85



CALCULATED CMS
CHECKED DRM

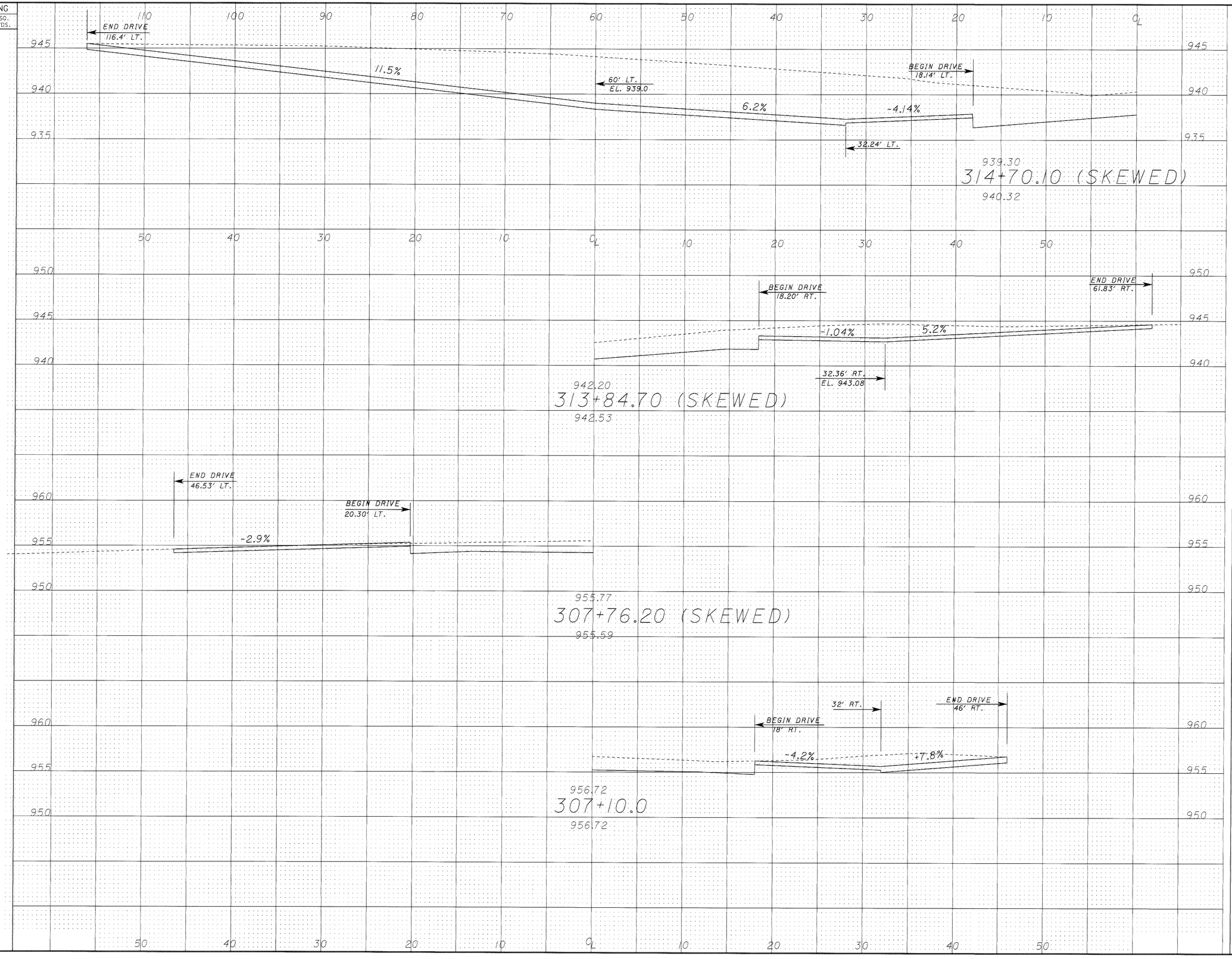
CROSS SECTIONS
PLEASANTVILLE RD. STA. 6+50 TO STA. 7+50

FAI-158-7.38

31
45

FAI158PXS11.DGN

SEEDING	
END WIDTH	SQ. YDS.



END AREA		VOLUME	
CUT	FILL	CUT	FILL

CALCULATED CMS
CHECKED DRM

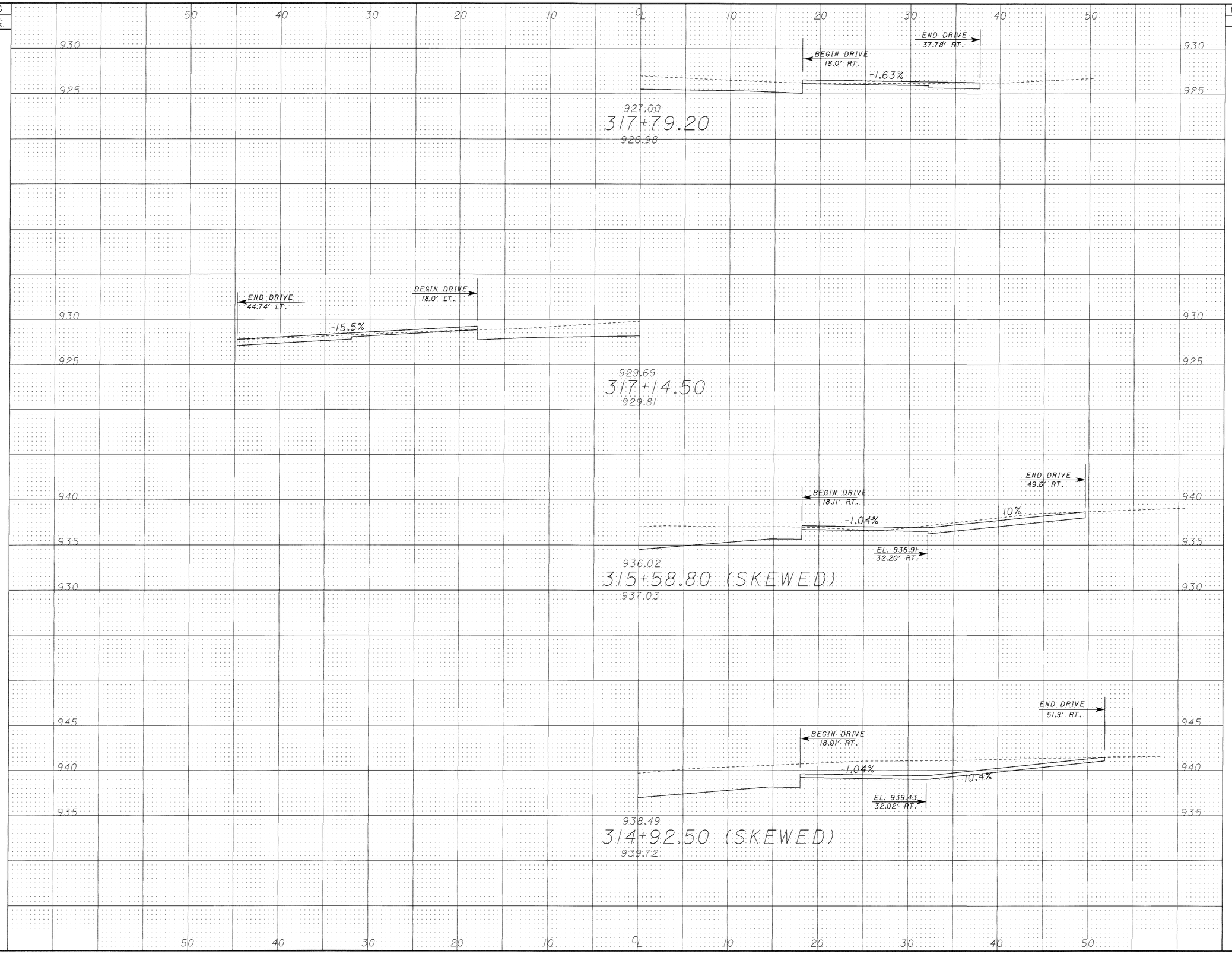
DRIVE PROFILES S.R. 158

FAI-158-7.38

FAI158PXS12.DWG

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



CALCULATED CMS
CHECKED DRM

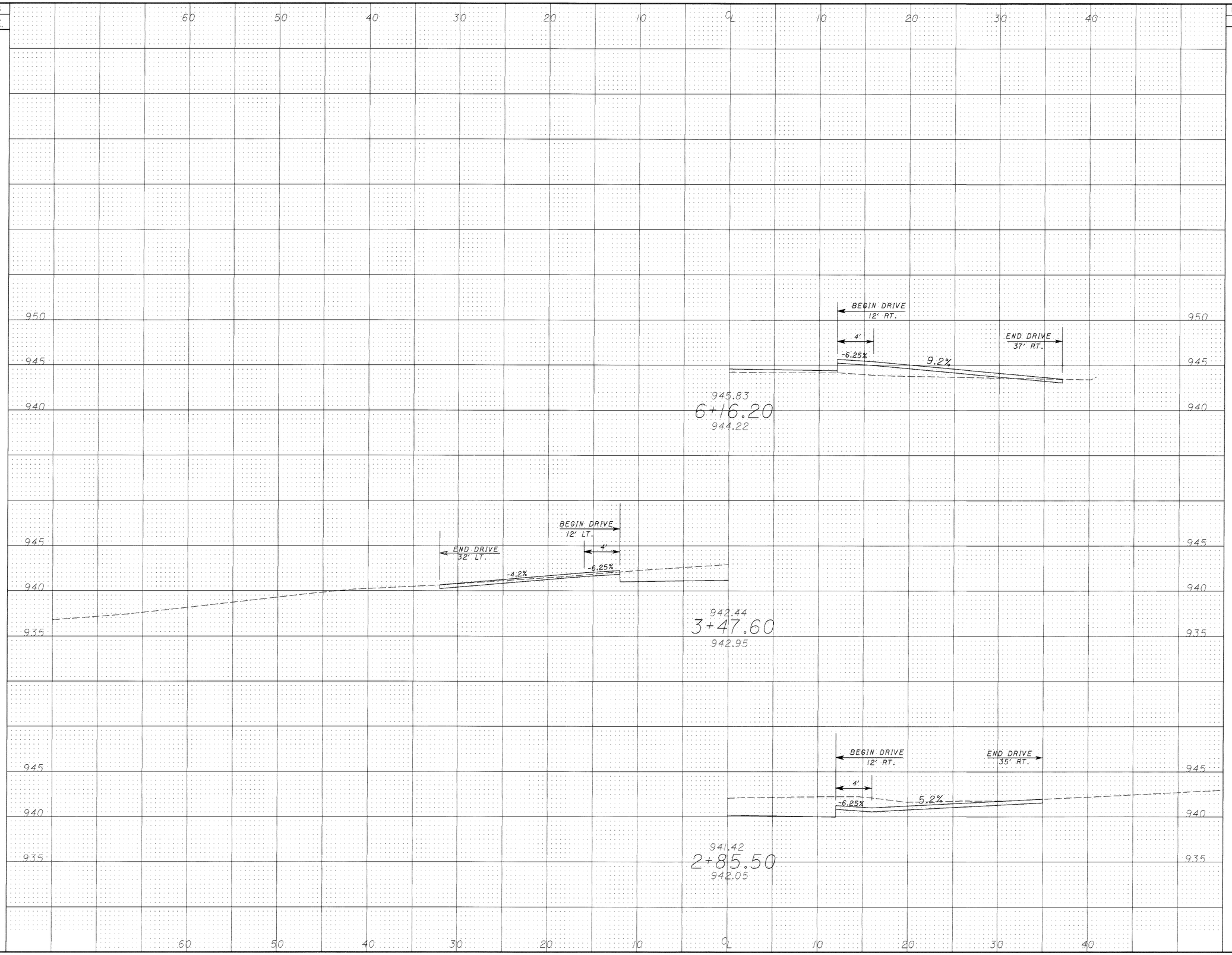
DRIVE PROFILES S.R. 158

FAI-158-7.38

FAI158PXS13.DWG

SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL

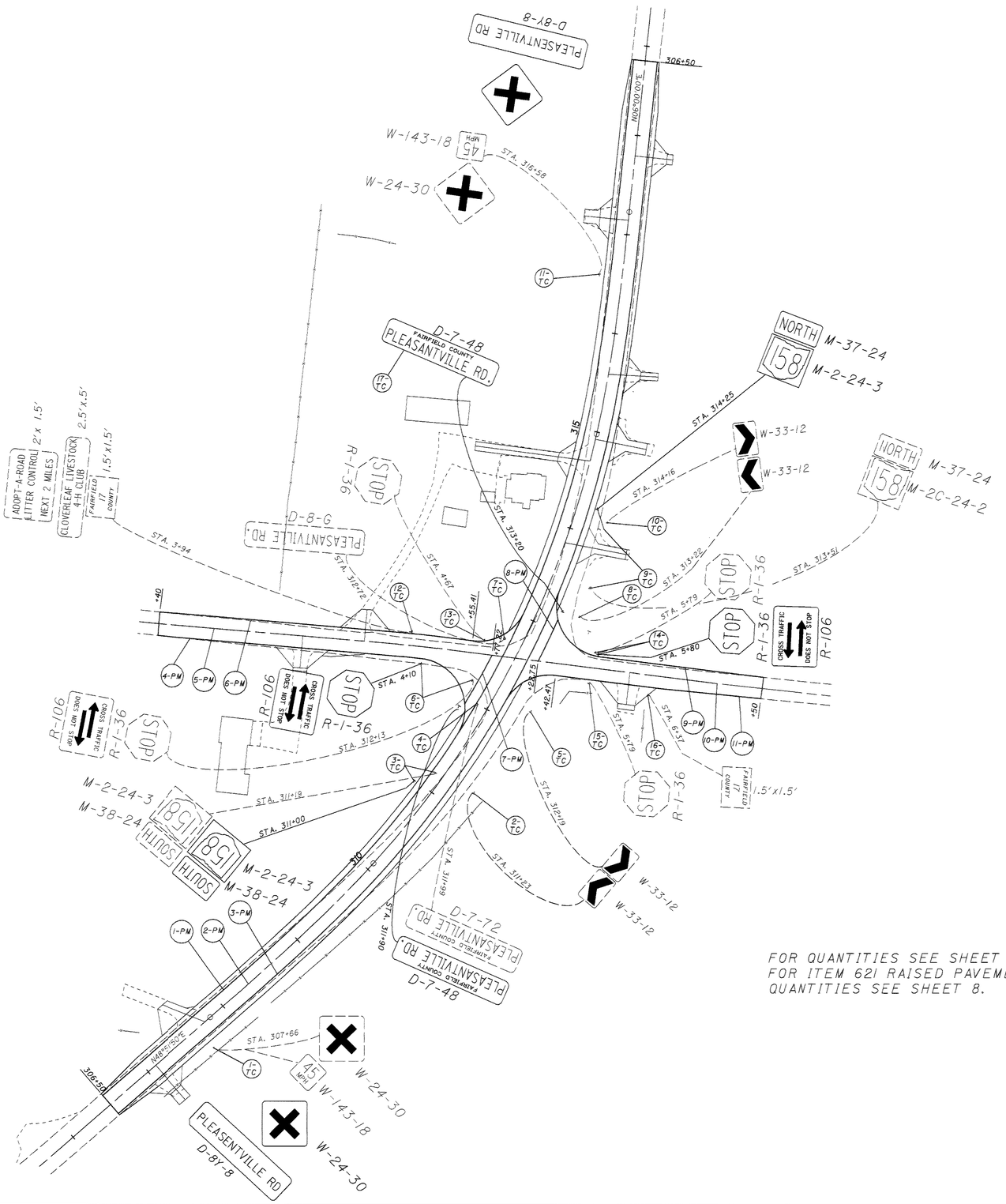


CALCULATED CMS
CHECKED DRM

DRIVE PROFILES PLEASANTVILLE RD.

FAI-158-7.38

FAI158PXS14.DGN



FOR QUANTITIES SEE SHEET 36.
FOR ITEM 621 RAISED PAVEMENT MARKERS
QUANTITIES SEE SHEET 8.

N

0 60 120
HORIZONTAL
SCALE IN FEET

CALCULATED CMS
CHECKED DRM

TRAFFIC CONTROL PLAN

FAI-158-7.33

FAI158TPSI.DGN

MARK	STATION TO STATION		SIGN REFERENCE NUMBER OR SIZE		642 EDGE LINE, TYPE 1	642 CENTER LINE, TYPE 1 (TWO DIRECTION NO-PASSING)	644 STOP LINE, TYPE 1	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	630 SIGN, FLAT SHEET TYPE G	630 GROUND MOUNTED SUPPORT, NO. 2 POST, TYPE S	630 GROUND MOUNTED SUPPORT, NO. 3 POST, TYPE S		WORK REQUIRED
	STATION	STATION	(FT. x FT.)		MILE	MILE	LIN. FT.	EACH	EACH	EACH	SQ. FT.	LIN. FT.	LIN. FT.		
	S.R. 158														
1-PM	306+50	318+75			0.232										
2-PM	306+50	318+75				0.232									
3-PM	306+50	318+75			0.232										
	PLEASANTVILLE RD.														
4-PM	1+40	4+77.22			0.064										
5-PM	1+40	4+77.22				0.064									
6-PM	1+40	4+55.41			0.060										
7-PM	4+77.22						56								
8-PM	5+22.75						46								
9-PM	5+22.75	7+50.0			0.043										
10-PM	5+22.75	7+50.0				0.043									
11-PM	5+42.47	7+50.0			0.039										
	TOTALS (CARRIED TO GENERAL SUMMARY)				0.670	0.339	102								
	S.R. 158														
	EXISTING	PROPOSED													
1-TC	307+66 RT.	307+66 RT.	W-24-30	D-8Y-8					2	1	8.92	12			REMOVE & REPLACE WITH NEW SIGNS
2-TC	311+23 RT.								2	1					REMOVE
3-TC	311+19 LT.	311+00 LT.	M-2-24-3	M-38-24					2	1	7	12			REMOVE & REPLACE WITH NEW SIGNS
4-TC	311+99 LT.	311+90 LT.	D-7-48						1	2	3.32	10-10			REMOVE & REPLACE WITH NEW SIGN
5-TC	312+19 RT.								2	1					REMOVE
6-TC	312+13 LT.	4+10 RT.	R-1-36	R-106					2	1	12.00		13		REMOVE & REPLACE WITH NEW SIGNS
7-TC	312+72 LT.								1	2					REMOVE
8-TC	313+22 RT.								2	1					REMOVE
9-TC	313+51 RT.	314+25 RT.	M-2-24-3	M-37-24					2	1	7	12			REMOVE & REPLACE WITH NEW SIGNS
10-TC	314+16 RT.								2	1					REMOVE
11-TC	316+58 LT.	316+58 LT.	W-24-30	D-8Y-8					2	1	8.92	12			REMOVE & REPLACE WITH NEW SIGNS
	PLEASANTVILLE RD.														
12-TC	3+94 LT.	3+94 LT.						3		1					REMOVE & REPLACE
13-TC	4+67 LT.								1	1					REMOVE
14-TC	5+79 LT.	5+80 LT.	R-1-36	R-106					1	1	12.00		13		REMOVE & REPLACE WITH NEW SIGNS
15-TC	5+79 RT.								1	1					REMOVE
16-TC	6+37 RT.	6+37 RT.						1		1		11			REMOVE & REPLACE
17-TC		313+20 RT.	D-7-48								3.32	10-10			NEW SIGN
	TOTALS (CARRIED TO GENERAL SUMMARY)							4	23	18	62.48	99	26		

CALCULATED CMS
CHECKED DRM

TRAFFIC CONTROL QUANTITIES

FAI-158-7.38

FAI158PCS3.DGN

FAI-158-7.38

S.E. QTR. SECTION 35 AND S.W. QTR.,
SECTION 36, TWP-16, RNG-19, LIBERTY TOWNSHIP,
SEC. 1, TWP-15, RNG-19,
GREENFIELD TOWNSHIP
FAIRFIELD COUNTY, OHIO

EXISTING MONUMENTS		
STATION	LOCATION	DESCRIPTION
306+11.08	29.15 RT.	IRON PIN
307+23.94	29.24 LT.	IRON PIPE
308+30.26	29.20 RT.	IRON PIN
309+31.01	27.53 LT.	IRON PIPE
309+86.42	36.95 RT.	CONCRETE R/W MONUMENT
315+15.77	22.77 LT.	IRON PIPE
315+24.12	54.81 RT.	CONCRETE R/W MONUMENT
316+15.31	28.96 LT.	CONCRETE R/W MONUMENT
316+15.43	39.07 LT.	CONCRETE R/W MONUMENT
316+17.81	50.91 RT.	CONCRETE R/W MONUMENT
316+87.08	44.12 LT.	IRON PIN

THE PROPOSED RIGHT-OF-WAY SHALL BE REFERENCED FROM THE CENTERLINE OF SURVEY AND CONSTRUCTION.

ADJUSTABLE CENTERLINE MONUMENTS, REFERENCE MONUMENTS AND RIGHT-OF-WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM 1.1 (REV.4-21-99) OF THE OHIO DEPARTMENT OF TRANSPORTION. THE PLACING OF THE MONUMENTS SHALL BE UNDER THE DIRECTION OF A SURVEYOR REGISTERED IN THE STATE OF OHIO AND ARE TO BE SET, AS SHOWN BY THE HIGHWAY CONTRACTOR AT THE TIME OF CONSTRUCTION. ANY ALTERATIONS, WITH PRIOR APPROVAL OF THE OHIO DEPARTMENT OF TRANSPORATION, SHALL BE NOTED AND O.D.O.T. SHALL BE NOTIFIED OF THE NEW LOCATIONS.

RECEIVED _____, 20____
RECORDED _____, 20____
BOOK _____ PAGE _____
_____
COUNTY RECORDER

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING:

FAI-158-1.75, 9.46

FAI 158-7.54

FAI 158-01.55

END PROJECT STATION EQUATION
STA 319+89.56 BK ℄ CONSTRUCTION S.R. 158
STA 320+00.00 AHD ℄ EXISTING S.R. 158
FAI-158-7.61

SECTION CORNER
STA 312+77.67/63.37' RT. ℄ CONSTR. S.R.158
STA 5+66.35/2.26' RT. ℄ CONSTR.
PLEASANTVILLE RD. (C.R. 17)

END PROJECT STA 7+50

S.W. QTR. SEC. 36, TWP. 16, RNG. 19 - LIBERTY TWP.
S 84°21'52" E

8+00 S83°47'29"E 2.03' STA 7+50

7+00 PI Sta = 7+00.00
Δ = 0°58'50" LT
NO CURVE

EXISTING ℄ & SEC. LINE

278.88' (T) S82°48'39"E

6+00

EX. CENTERLINE INTERSECTION
STA 312+61.92/20.08' RT. CONSTR S.R. 158
STA 5+22.97/8.50' RT. CONSTR.
PLEASANTVILLE RD. (C.R. 17)

EX.CENTERLINE
P.I. STA. = 312+71.50
CH = N27°25'55"E
CD = 523.82'
RAD = 716.78'
Δc = 42°51'50" LT
Lc = 536.24'
Dc = 07°59'37"
E= 53.24'
T= 281.36

320 319 N06°00'00"E 318 266.66' ST Sta = 317+22.90 317 316 PT Sta. 315+26.37 CS Sta = 314+97.90 315 N06°00'00"E S.W. QTR. SEC. 36 314 S.E. QTR. SEC. 35 313 312 311 310 309 308 307 306 305

EXISTING CENTERLINE
PROPOSED S.R. 158
LANCASTER KIRKERSVILLE ROAD

℄ CONSTRUCTION
PROPOSED S.R. 158
LANCASTER KIRKERSVILLE ROAD

66.31' TO OLD P1

5+00

312 EXISTING ℄

STA 312+58.47 CONSTRUCTION S.R. 158
STA 5+00 CONSTRUCTION PLEASANTVILLE RD. (C.R. 17)

PLEASANTVILLE RD. (C.R. 17)

4+00 PT Sta = 4+21.12

PC Sta = 3+82.20

SC Sta = 310+08.18

PC Sta. 305+90.14

PLEASANTVILLE ROAD (C.R. 17)
℄ CONSTRUCTION

EXISTING ℄ & SEC. LINE

3+00

PROPOSED CURVE
PLEASANTVILLE ROAD (C.R. 17)
P.I. STA 4+01.66
RAD = 954.93'
Dc = 6°00'00"
T = 19.46
Lc = 38.92'
Ec = 0.20'
Δ= 2°20'06" RT.

LANCASTER-KIRKERSVILLE ROAD
STATE ROUTE 158

TS Sta = 307+83.18

N48°51'50"E 133.18'

BEGIN PROJECT
STA 306+50
FAI-158-7.38

BEGIN PROJECT STA 1+40

S85°08'45"E 239.54'

SEC. 1, TWP. 15, RNG. 19, GREENFIELD TWP.
S 84°12'57" E

2+00

PI STA. = 1+42.66
Δ = 0°52'46" LT
NO CURVE

2.18' STA 1+00

1+00

S.E. QTR. SEC. 35, TWP. 16, RNG. 19 LIBERTY TWP.
S84°15'53"E 142.66

* STA. 347+61.58 BACK = STA 345+18.72 AHEAD
∓ STA. 381+96.85 BACK = STA 381+31.55 AHEAD

* CURVE NO. 1
∓ CURVE NO. 2

*TS Sta = 312+50.35
∓TS Sta = 310+53.95
*SC Sta = 314+53.95
∓SC Sta = 312+50.35
*CS Sta = 356+29.95
∓CS Sta = 388+74.45
*ST Sta = 360+29.95
∓ST Sta = 392+74.45

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

BASIS FOR BEARINGS:
ALL BEARINGS SHOWN ARE FOR PROJECT USE ONLY.

BEARINGS ARE BASED ON MONUMENTED EXISTING RIGHT-OF-WAY OF STATE ROUTE 158 AS SHOWN ON PLANS FAI-158-1.75, 9.46. CENTERLINE BEARING BEING N 6°00'00" E.

DETAIL OF ALTERNATE METHOD OF STATION SPIRAL CURVES (AS OUTLINED IN "TRANSITION CURVES FOR HIGHWAYS" BY JOSEPH BARRET)

ALL ANGLE POINTS IN RIGHT-OF-WAY AND PROPERTY LINES, PROPERTY CORNERS FALLING WITHIN THE SPIRALED PORTION OF THE CURVE SHALL BE REFERENCED FROM THE TANGENT LINE IN LIEU OF THE SPIRAL. OBTAIN STATIONING THEREON BY BEGINNING AT THE T.S. AND RUNNING STATION AHEAD ON THE TANGENT LINE THROUGH ENTRY SPIRAL. FROM THE S.T., BACK STATIONING ALONG THE TANGENT LINE THROUGH EXIST SPIRAL. THIS AVOIDS ANY STATIONS EQUATIONS ON THE CENTERLINE. FROM S.C. TO C.S. USE NORMAL CENTERLINE STATION.

PROPOSED CURVE
STATE ROUTE 158

P.I. STA 312+71.51	Xc = 224.69'
Δ = 42°51'50" LT.	Yc = 8.82'
Δc = 29°22'12" LT.	Lc = 489.72'
Dc = 5°59'50"	Ts = 488.33
Rc = 955.366'	Es = 73.34'
Ls = 225.00'	TS STA 307+83.18
Os = 13°26'40"	SC STA 310+08.18
L.T. = 150.11'	CS STA 314+97.90
S.T. = 75.10'	ST STA 317+22.90

MONUMENTS TO BE SET DURING CONSTRUCTION				
STATION	DIST. FROM ℄ OF SURVEY		ADJUSTABLE ℄ MONUMENTS	REFERENCE MONUMENTS
	LEFT	RIGHT		
TS STA 307+83.18	ON ℄	ON ℄	1	
SC STA 310+08.18	ON ℄	ON ℄	1	
STA 312+58.47	ON ℄	ON ℄	1	
CS STA 314+97.90	ON ℄	ON ℄	1	
ST STA 317+22.90	ON ℄	ON ℄	1	
TOTAL			5	

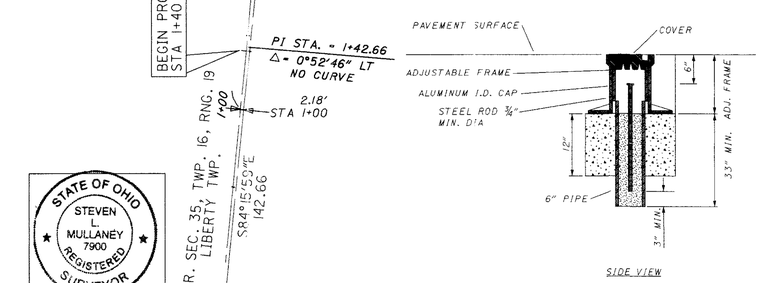
I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINIATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF TRANSPORTATION IN 2000 BY JOBES HENDERSON & ASSOCIATES, INC.

THE ESTABLISHMENT OF THE PROPERTY LINES AND EXISTING RIGHT-OF-WAY LINES SHOWN ON THIS PLAN AS OF THIS DATE WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.

BY _____
STEVEN L MULLANEY P.S.

SURVEYOR NO. 7900 DATE 9/12/00

STATE OF OHIO
STEVEN L MULLANEY
7900
REGISTERED SURVEYOR
SEAL



ADJUSTABLE CENTERLINE MONUMENT DETAILS

HORIZONTAL SCALE IN FEET 0 25 50 100

PID NO. 20379

JEFFREY L. KLINGLER 9/12/00 RIGHT OF WAY PLAN DESIGNER DATE
STEVEN L. MULLANEY 9/12/00 RIGHT OF WAY PLAN REVIEWER DATE

CENTERLINE PLAT

FAI-158-7.38
FAIRFIELD COUNTY

1 / 9

37 / 45

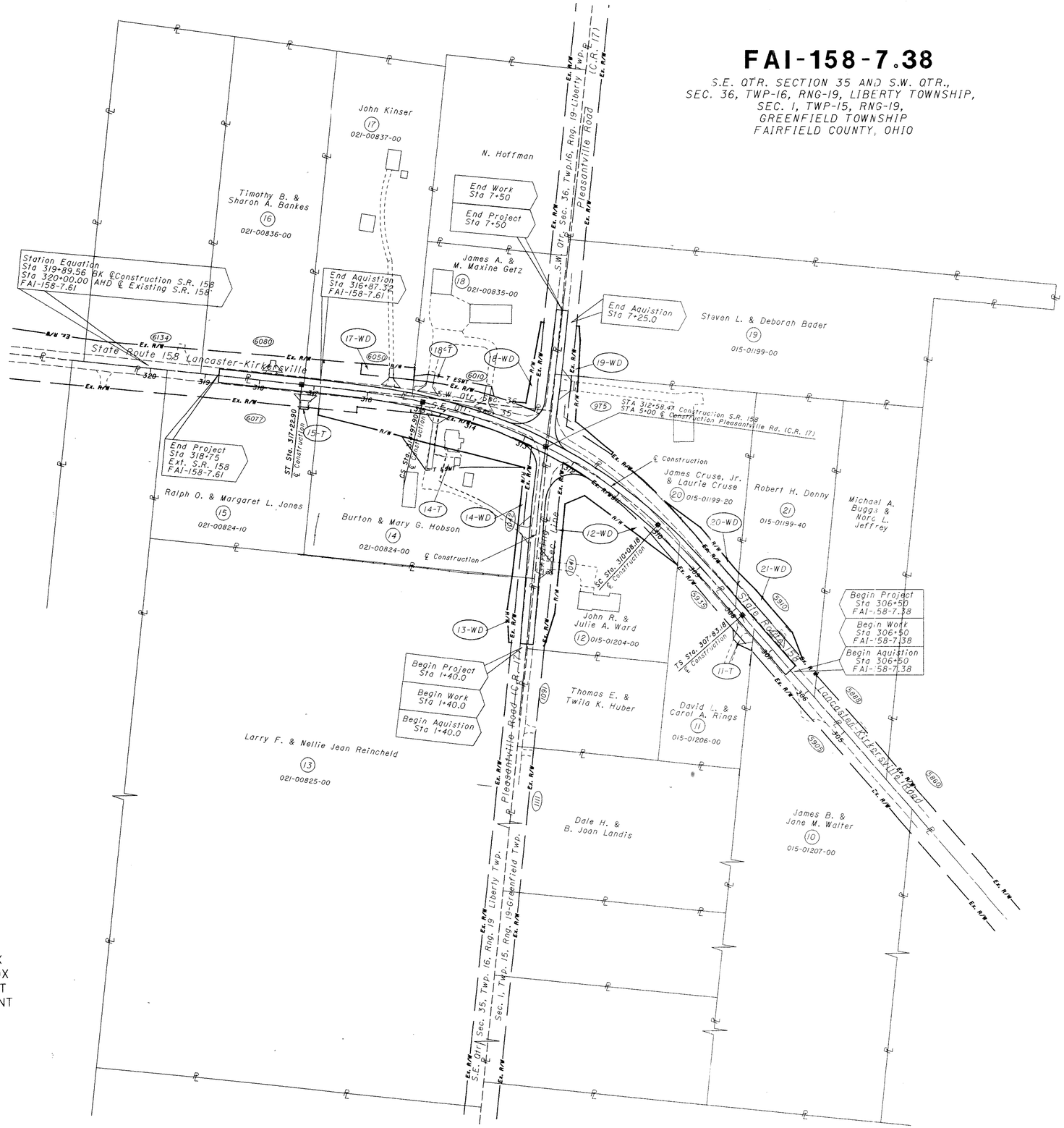
T:/001-30/rightway/fai158738rcp.dgn

FAI-158-7.38

S.E. QTR. SECTION 35 AND S.W. QTR.,
SEC. 36, TWP-16, RNG-19, LIBERTY TOWNSHIP,
SEC. 1, TWP-15, RNG-19,
GREENFIELD TOWNSHIP
FAIRFIELD COUNTY, OHIO

REV. BY	DATE	DESCRIPTION

DATE COMPLETED



STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

CONVENTIONAL SIGNS

- County Line
- Township Line
- Section Line
- Corporation Line or
- Fence Line (existing) (proposed)
- Center Line
- Trees ,Stumps (to be removed)
- Utility Poles: Telephone , Power , Light
- Limited Access (only) LA
- Right of Way (only) R/W
- Limited Access & Right of Way LA-R/W
- Exist. Right of Way R/W
- Temp. Right of Way T ESMT
- Slope Easement SL ESMT
- Utility Easement U ESMT
- Property Line (in existing fence)
- Railroad or
- Guardrail (existing) (proposed)
- Construction Limits Construction Limits
- Temporary Right-of-Way

SCALE IN FEET: 0, 100, 200

PID NO. 20379

JEFFREY L. KLINGLER 9/12/00 RIGHT OF WAY DESIGNER DATE
STEVEN L. MULLANEY 9/12/00 RIGHT OF WAY REVIEWER DATE

PROPERTY MAP

FAI-158-7.38 FAIRFIELD COUNTY

2 / 9

38 / 45

T:/001-30/RGHTWAY/fai158738.rpm

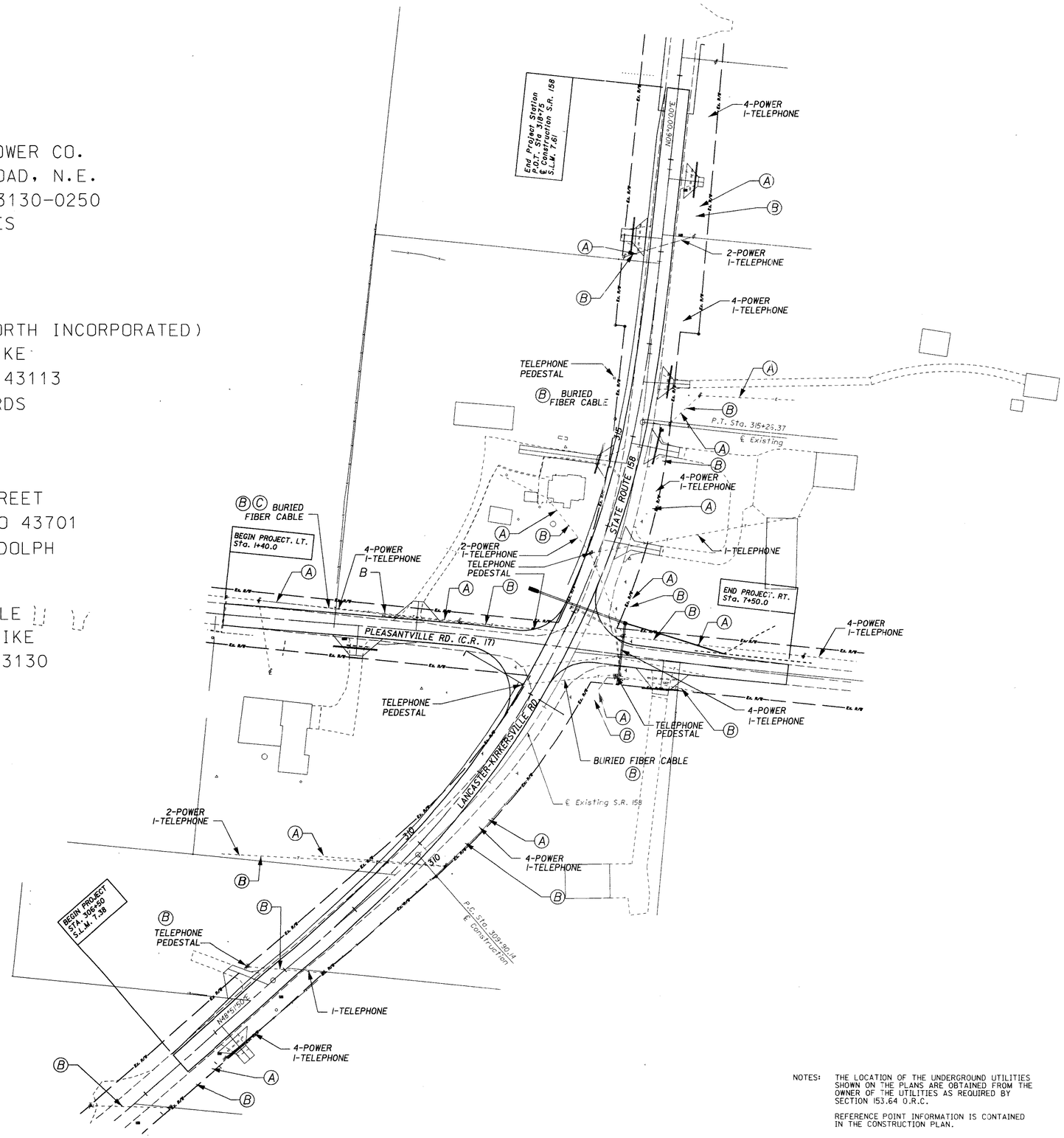
UTILITY OWNERS

(A) SOUTH CENTRAL POWER CO.
2780 COONPATH ROAD, N.E.
LANCASTER, OH 43130-0250
ATTN: RALPH JONES
(740) 653-4422

(B) VERIZON
(formerly GTE NORTH INCORPORATED)
500 LANCASTER PIKE
CIRCLEVILLE, OH 43113
ATTN: MIKE EDWARDS
(740) 474-7197

(C) AMERITECH
160 N. SIXTH STREET
ZANESVILLE, OHIO 43701
ATTN: SANDY RANDOLPH
(740) 454-3455

(A) (B) TIME WARNER CABLE
1315 GRANVILE PIKE
LANCASTER, OH 43130
ATTN: JIM DEEDS
(740) 653-6899



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

REFERENCE POINT INFORMATION IS CONTAINED IN THE CONSTRUCTION PLAN.

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET 0 60 120

P.I.D. NO. 20379

Jeffrey L. Klingler 9/12/00
Right of Way Designer Date
Steven L. Mullaney 9/12/00
Right of Way Reviewer Date

ULITLITY PLAN

FAI-158-7.38
FAIRFIELD COUNTY

T:/001-30/rightway/FAI158UPD.DGN

TOTAL NUMBER OF :
10 OWNERSHIPS
12 PARCELS
0 TOTAL TAKES
1 OWNERSHIPS WITH STRUCTURES INVOLVED
0 OWNERSHIPS WITH "P" ITEMS

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN

GRANTEE:
ALL RIGHT OF WAY ACQUIRED IN THE NAME OF STATE OF OHIO UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD BOOK	OWNERS RECORD PAGE	AUDITOR'S PARCEL	RECORD AREA(AC.)	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED BOOK	AS ACQUIRED PAGE
10	James B. & Jane M. Walter	41	D.B. 449	597	015-01207-00	8.03	0.302	No Take		No Take				STATE			
11-T	David L. & Carol A. Rings	41	D.B. 574	540	015-01206-00	1.14		0.008		0.008	N				To regrade at drive connection		
12-WD	John R. & Julie A. Ward	41 & 42	D.B. 594	666	015-01204-00	1.85	0.455	0.685	0.455	0.230	N	1.165			*Landscape Area		
13-WD	Larry F. & Nellie Jean Reincheld	44	D.B. 568	375	021-00825-00	27.58	1.292	1.322	1.292	0.030	N	26.258					
14-WD	Burton & Mary G. Hobson	42 & 43	D.B. 475	220	021-00824-00	3.00	0.563	0.994	0.563	0.431	Y	2.006			Remove 1 1/2 - Story Frame House & Frame Shed		
14-T	Burton & Mary G. Hobson	42 & 43	D.B. 475	220	021-00824-00	3.00		0.123		0.123					To regrade at drive connection		
15-T	Ralph O. & Margaret L. Jones	43	D.B. 655	285	021-00824-10	2.00		0.001		0.001	N				To regrade at drive connection		
16	Timothy B. & Sharon A. Bankes	43	D.B. 625	439	021-00836-10	2.662	0.199	No Take		No Take							
17-WD	John Kinser	42 & 43	D.B. 425	70	021-00837-00	2.75	0.182	0.229	0.182	0.047	N		2.521				
18-WD	James A. & M. Maxine Getz	42 & 45	D.B. 534	421	021-00835-00	2.00	0.332	0.378	0.332	0.046	N		1.622				
18-T	James A. & M. Maxine Getz	42 & 45	D.B. 534	421	021-00835-00	2.00		0.042		0.042					To regrade at drive connection		
19-WD	Steven L. & Deborah Bader	45	D.B. 645	813	015-01199-00	24.24	0.444	0.082	0.062	0.020	N		23.776				
20-WD	James Cruse Jr. & Laurie Cruse	41,42,45	D.B. 647	726	015-01199-20	1.973	0.379	0.482	0.379	0.103	N		1.491				
21-WD	Robert H. Denny	41	D.B. 668	117	015-01199-40	1.714	0.151	0.181	0.115	0.066	N		1.497	STATE			

* DENOTES RIGHT OF WAY ENCROACHMENT

NOTE: ALL TEMPORARY PARCELS TO BE OF 18 MONTHS DURATION

UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS ACQUIRED FOR THE PURPOSE OF STRUCTURE REMOVAL TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR. UPON COMPLETION OF THE WORK REQUIRED FOR SUCH REMOVAL AND SUBSEQUENT RECLAMATION, THE EASEMENT SHALL BE VACATED IMMEDIATELY.

PLAN COMPLETED:		
REV	DATE	DESCRIPTION

FEDERAL PROJECT NO.

PID NO. 20379

STATE JOB NO.

JEFFREY L. KLINGLER 9/12/00
RIGHT OF WAY DESIGNER DATE
STEVEN L. MULLANEY 9/12/00
RIGHT OF WAY REVIEWER DATE

SUMMARY OF ADDITIONAL RIGHT OF WAY

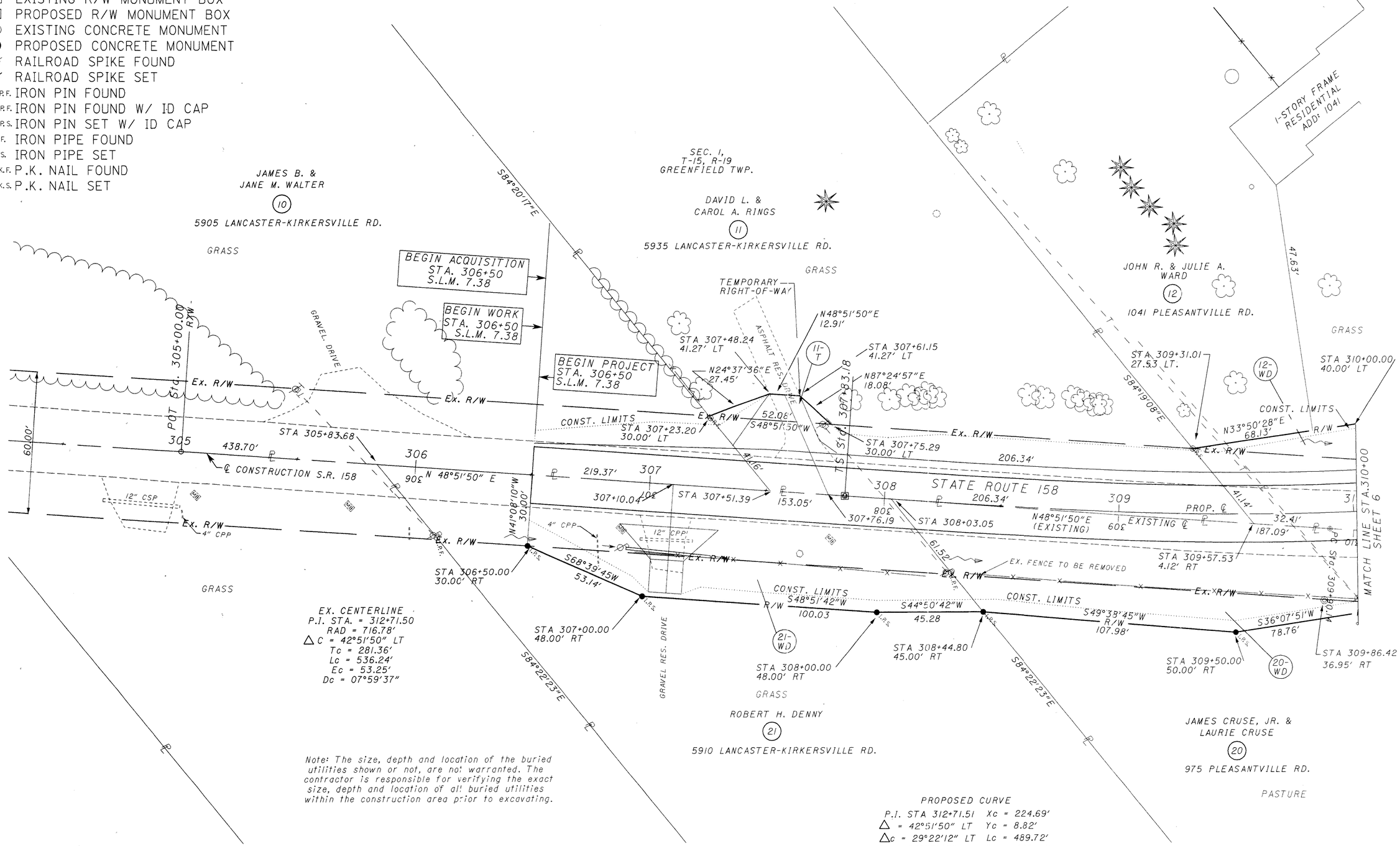
FAI-158-7.38
FAIRFIELD COUNTY

T:/001-30/rightway/fai158738.rss

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.R.F. IRON PIN FOUND
- I.R.F. IRON PIN FOUND W/ ID CAP
- I.R.S. IRON PIN SET W/ ID CAP
- R.F. IRON PIPE FOUND
- R.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

NOTE: ALL STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION FOR STATE ROUTE 158 AND PLEASANTVILLE ROAD (C.R. 17).



Note: The size, depth and location of the buried utilities shown or not, are not warranted. The contractor is responsible for verifying the exact size, depth and location of all buried utilities within the construction area prior to excavating.

PROPOSED CURVE

P.I. STA 312+71.51	Xc = 224.69'
△ = 42°51'50" LT	Yc = 8.82'
△c = 29°22'12" LT	Lc = 489.72'
Dc = 05°59'50"	Ts = 488.33'
Rc = 955.366'	Es = 73.34'
Ls = 225.00'	TS STA 307+83.18
Os = 13°25'40"	SC STA 310+08.18
L.T. = 150.11'	CS STA 314+97.90
S.T. = 75.10'	ST STA 317+22.90

NOTE: THE EXISTING R/W WIDTH AND AND LOCATION WERE DETERMINED USING:

FAI 158-1.75, 9.46

FAI 158-7.54

FAI 158-01.55

NOTE: THE UNDERGROUND UTILITIES ARE TO REMAIN IN PLACE AAND NOT BE DISTURBED UNLESS OTHERWISE DIRECTED BY THE UTILITY OWNERS.

PLAN COMPLETED:		
REV	DATE	DESCRIPTION

SCALE IN FEET 0 20 40

PID NO. 20379

JEFFREY L. KLINGLER 9/12/00 RIGHT OF WAY DESIGNER DATE
STEVEN L. MULLANEY 9/12/00 RIGHT OF WAY REVIEWER DATE

ST. RT. 158

RIGHT OF WAY PLAN
STA 306+50 TO STA 310+00

FAI-158-7.38
FAIRFIELD COUNTY

5 / 9

41 / 45

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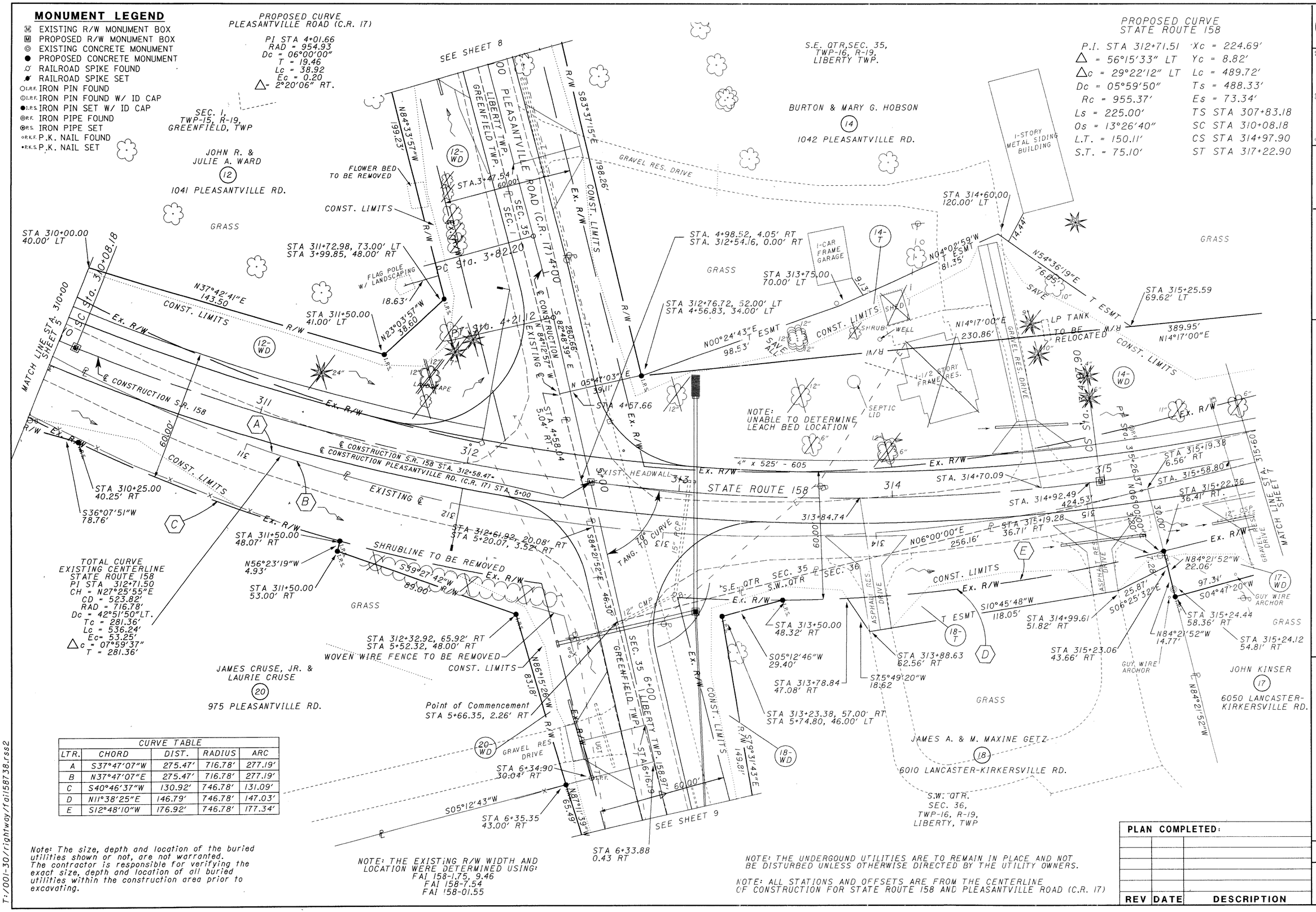
MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET



CURVE TABLE				
LTR.	CHORD	DIST.	RADIUS	ARC
A	S37°47'07"W	275.47'	716.78'	277.19'
B	N37°47'07"E	275.47'	716.78'	277.19'
C	S40°46'37"W	130.92'	746.78'	131.09'
D	N11°38'25"E	146.79'	746.78'	147.03'
E	S12°48'10"W	176.92'	746.78'	177.34'

Note: The size, depth and location of the buried utilities shown or not, are not warranted. The contractor is responsible for verifying the exact size, depth and location of all buried utilities within the construction area prior to excavating.

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING:
FAI 158-1.75, 9.46
FAI 158-7.54
FAI 158-01.55

NOTE: THE UNDERGOUND UTILITIES ARE TO REMAIN IN PLACE AND NOT BE DISTURBED UNLESS OTHERWISE DIRECTED BY THE UTILITY OWNERS.

NOTE: ALL STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION FOR STATE ROUTE 158 AND PLEASANTVILLE ROAD (C.R. 17)

PLAN COMPLETED:		
REV	DATE	DESCRIPTION

PID NO. 20379

JEFFREY L. KLINGLER 9/2/00 — RIGHT OF WAY DESIGNER — DATE
STEVEN L. MULLANEY 9/2/00 — RIGHT OF WAY REVIEWER — DATE

ST. RT. 158

RIGHT OF WAY PLAN
STA 310+00 TO STA 315+60

FAI-158-7.38
FAIRFIELD COUNTY

6 / 9

42 / 45

T:/001-30/rightway/fai158738.rss2

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.R.F. IRON PIN FOUND
- I.R.F. IRON PIN FOUND W/ ID CAP
- I.R.S. IRON PIN SET W/ ID CAP
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- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
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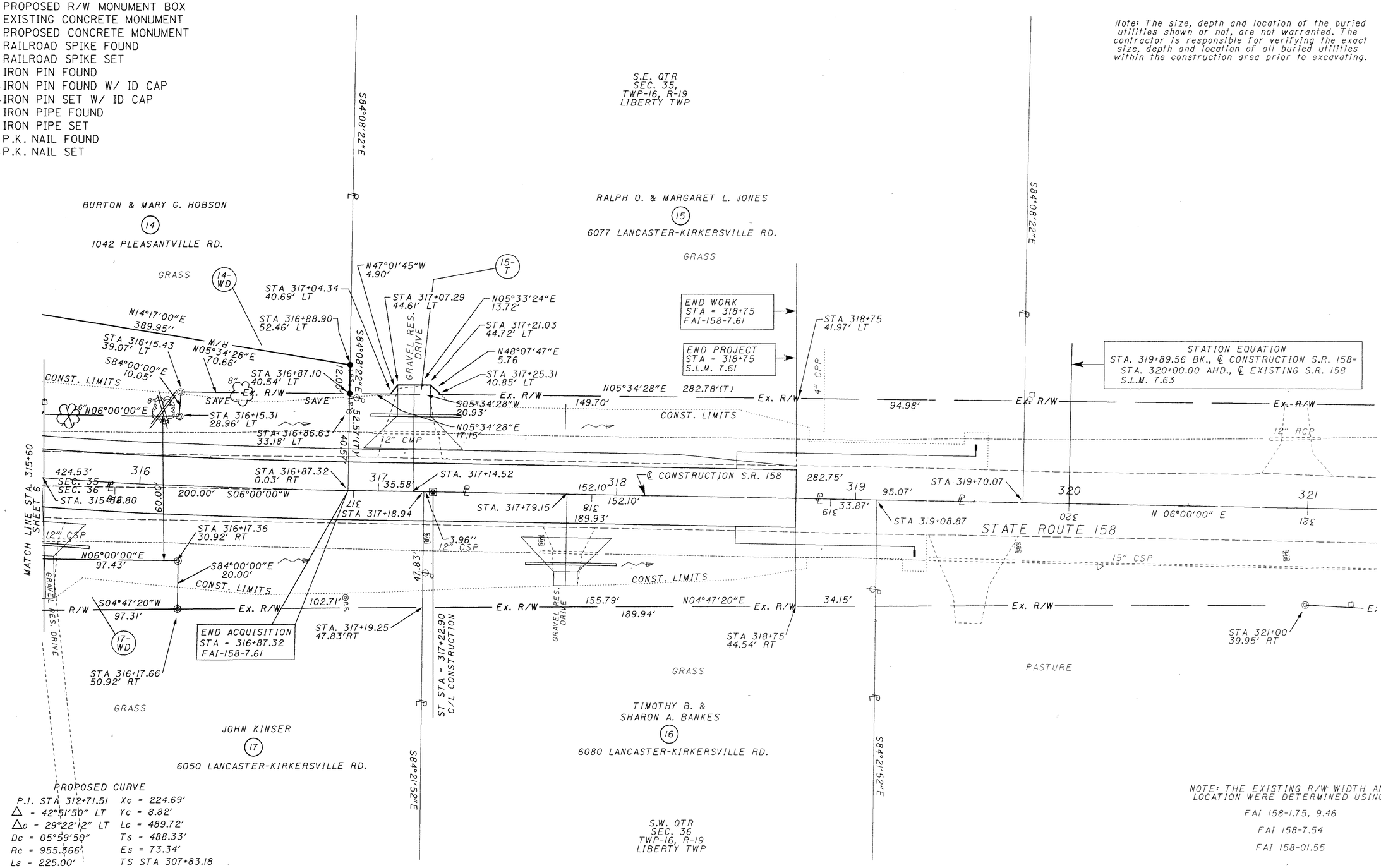

PROPOSED CURVE

P.I. STA 312+71.51	Xc = 224.69'
Δ = 42°51'50" LT	Yc = 8.82'
Δc = 29°22'12" LT	Lc = 489.72'
Dc = 05°59'50"	Ts = 488.33'
Rc = 955.366'	Es = 73.34'
Ls = 225.00'	TS STA 307+83.18
Os = 13°26'40"	SC STA 310+08.18
L.T. = 150.11'	CS STA 314+97.90
S.T. = 75.10'	ST STA 317+22.90

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NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING:

FAI 158-1.75, 9.46

FAI 158-7.54

FAI 158-01.55

PLAN COMPLETED:		
REV	DATE	DESCRIPTION

SCALE IN FEET 0 20 40

PID NO. 20379

JEFFREY L. KLINGLER 9/12/00 RIGHT OF WAY DESIGNER DATE

STEVEN L. MULLANEY 9/12/00 RIGHT OF WAY REVIEWER DATE

ST. RT. 158

RIGHT OF WAY PLAN
STA 315+60 TO STA 318+75

FAI-158-7.38
FAIRFIELD COUNTY

7 / 9

43 / 45

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MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
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- I.R.F. IRON PIN FOUND W/ ID CAP
- I.R.S. IRON PIN SET W/ ID CAP
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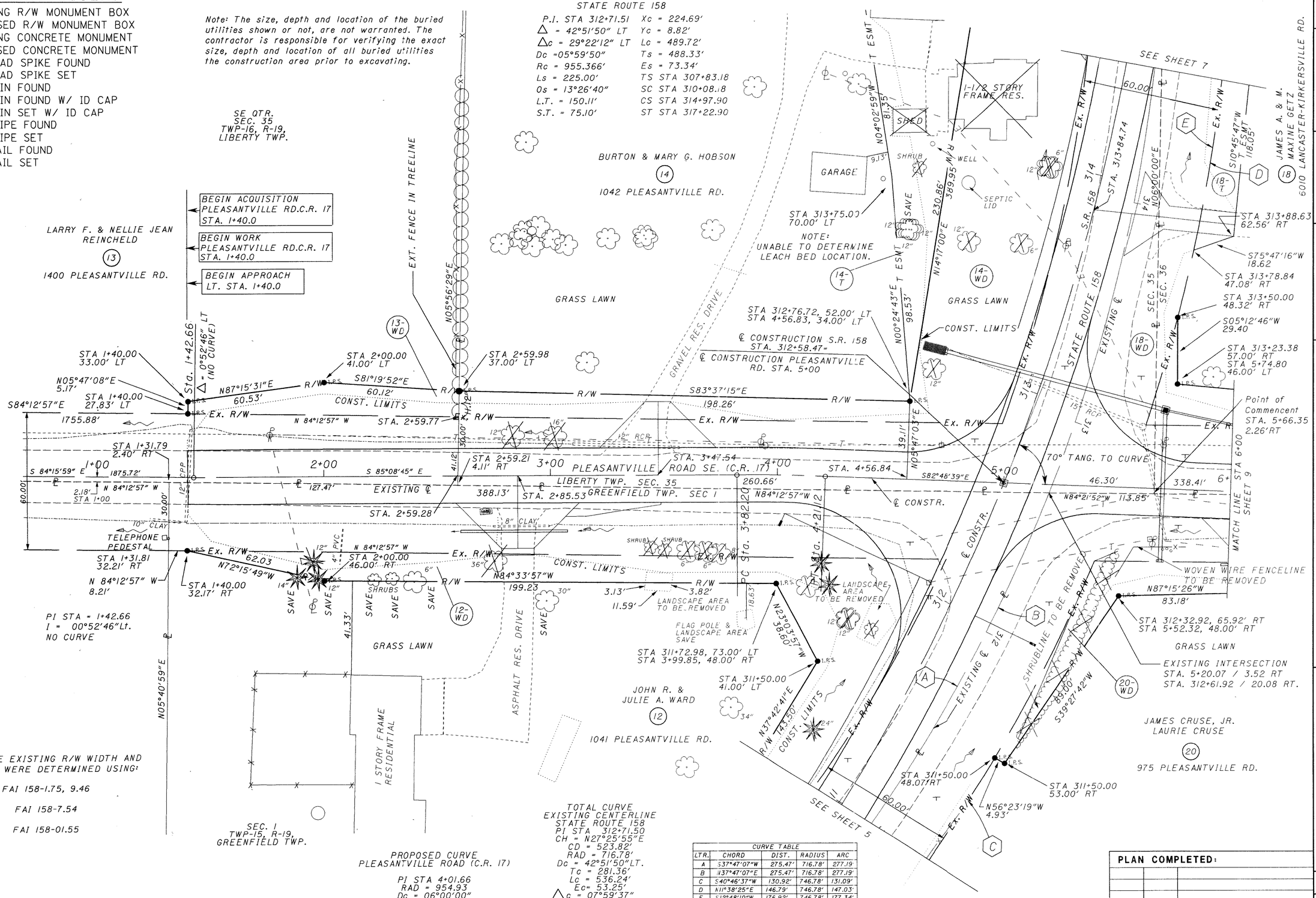

NOTE: THE EXISTING R/W WIDTH AND LOCATION WERE DETERMINED USING:

FAI 158-1.75, 9.46

FAI 158-7.54

FAI 158-01.55

TOTAL CURVE
EXISTING CENTERLINE
STATE ROUTE 158
PI STA 312+71.50
CH = N27°25'55"E
CD = 523.82'
RAD = 716.78'
Dc = 42°51'50"LT.
Tc = 281.36'
Lc = 536.24'
Ec = 53.25'
Δc = 07°59'37"
T = 281.36'

PROPOSED CURVE
PLEASANTVILLE ROAD (C.R. 17)

PI STA 4+01.66
RAD = 954.93
Dc = 06°00'00"
T = 19.46
Lc = 38.72
Ec = 0.20
Δ = 2°20'06" RT

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PLAN COMPLETED:		
REV	DATE	DESCRIPTION

SCALE IN FEET 0 20 40

PID NO. 20379

JEFFREY L. KLINGLER 9/12/00 RIGHT OF WAY DESIGNER DATE
STEVEN L. MULLANEY 9/12/00 RIGHT OF WAY REVIEWER DATE

RIGHT OF WAY PLAN
STA 1+40 TO STA 6+00
C.R. 17

FAI-158-7.38
FAIRFIELD COUNTY

8 / 9

44 / 45

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MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
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- RAILROAD SPIKE FOUND
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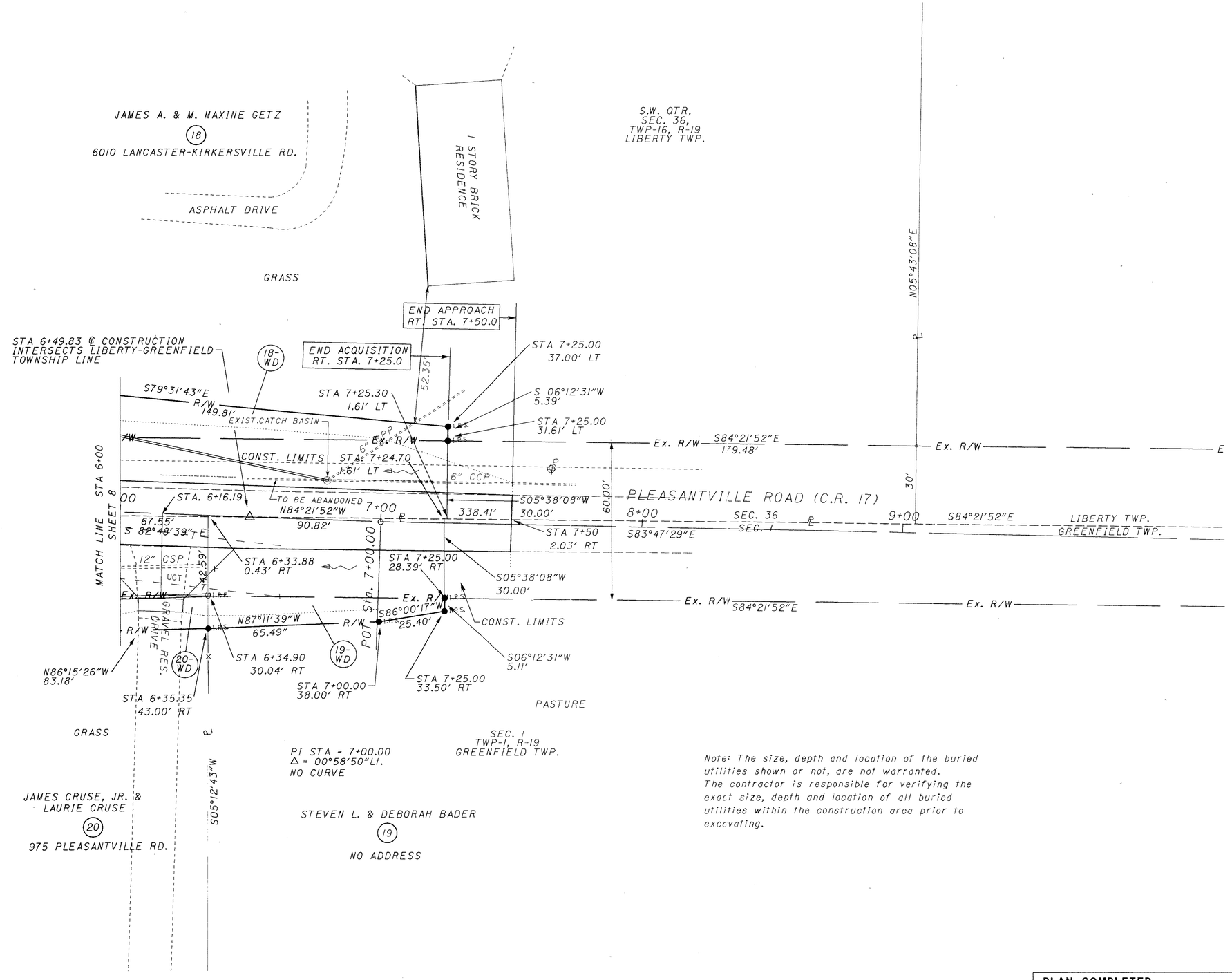

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PLAN COMPLETED:		
REV	DATE	DESCRIPTION

SCALE IN FEET 0 20 40

PID NO. 20379

JEFFREY L. KLINGLER 9/12/00 RIGHT OF WAY DESIGNER DATE
STEVEN L. MULLANEY 9/12/00 RIGHT OF WAY REVIEWER DATE

RIGHT OF WAY PLAN C.R. 17
STA 6+00 TO STA 7+50

FAI-158-7.38
FAIRFIELD COUNTY

9/9

45/45

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