

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

FAI-158-07.25

LIBERTY TOWNSHIP GREENFIELD TOWNSHIP FAIRFIELD COUNTY

PROJECT DESCRIPTION

PAVEMENT WIDENING FOR THE ADDITION OF LEFT TURN LANES ON S.R. 158 AND A TRAFFIC SIGNAL AT THE INTERSECTION OF S.R. 158 AND PLEASANTVILLE ROAD (CR-17).

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 4.89 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 5.14 ACRES

2019 SPECIFICATIONS

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

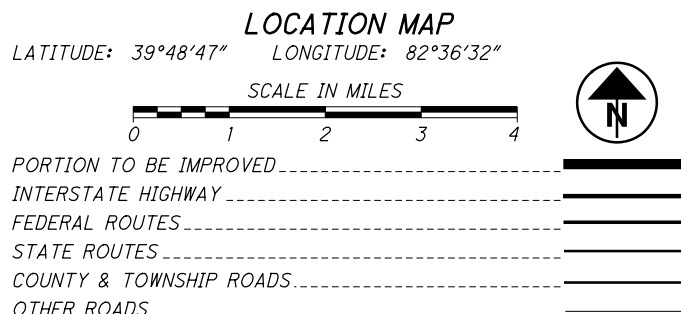
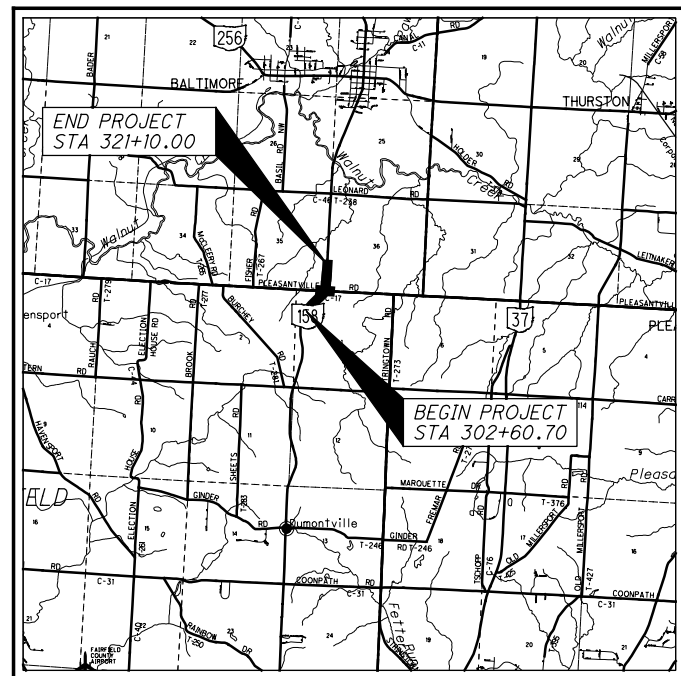
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 19-21, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

ADA DESIGN WAIVER

NONE REQUIRED

APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION



DESIGN DESIGNATION

| | |
|------------------------------------|--------|
| CURRENT ADT (2022) | 5,000 |
| DESIGN YEAR ADT (2042) | 5,600 |
| DESIGN HOURLY VOLUME (2042) | 750 |
| DIRECTIONAL DISTRIBUTION | 61% |
| TRUCKS (24 HOUR B&C) | 7% |
| DESIGN SPEED | 55 MPH |
| LEGAL SPEED | 55 MPH |
| DESIGN FUNCTIONAL CLASSIFICATION: | |
| MAJOR COLLECTOR (RURAL) (S.R. 158) | |
| MINOR COLLECTOR (RURAL) (C.R. 17) | |
| NHS PROJECT | NO |

DESIGN EXCEPTIONS

| DESIGN EXCEPTIONS | APPROVAL SHEET DATE | NUMBER |
|-------------------------|---------------------|--------|
| SUPERELEVATION RATE | 5/6/20 | 2 |
| STOPPING SIGHT DISTANCE | 5/6/20 | 53 |
| SHOULDER WIDTH | 3/29/21 | 6 |

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:
M M
MOTT MACDONALD
18013 CLEVELAND PARKWAY DRIVE, SUITE 200, CLEVELAND, OHIO 44135
PHONE: (216) 535-3640
FAX: (216) 265-2816

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ENGINEERS SEAL: ROADWAY



SIGNED: Chris Preto
DATE: 9/20/2021

ENGINEERS SEAL: TRAFFIC SIGNALS



SIGNED: Samuel Bobko, Jr.
DATE: 9/20/2021

| STANDARD CONSTRUCTION DRAWINGS | | | | | | | | SUPPLEMENTAL SPECIFICATIONS | SPECIAL PROVISIONS | |
|--------------------------------|---------|----------|---------|-----------|----------|----------|----------|-----------------------------|--------------------|--------------------------|
| BP-3.1 | 1/21/22 | HW-2.1 | 7/20/18 | MT-101.60 | 1/17/20 | TC-71.10 | 7/16/21 | 800 | 1/21/22 | TECHNICAL REPORT 6/30/20 |
| BP-4.1 | 7/19/18 | HW-2.2 | 7/20/18 | MT-101.70 | 1/17/20 | TC-81.11 | 7/16/21 | 809 | 1/21/22 | |
| | | | | MT-101.75 | 1/17/20 | TC-83.10 | 1/17/20 | 813 | 10/19/18 | |
| CB-2-2A, | 7/16/21 | HL-10.11 | 1/15/21 | MT-101.90 | 7/17/20 | TC-83.20 | 7/21/17 | 821 | 4/20/12 | |
| 2-2B, 2-2C | | HL-10.12 | 1/20/17 | MT-105.10 | 1/17/20 | TC-84.20 | 10/18/13 | 832 | 10/19/18 | |
| CB-2-3, 2-4 | 7/16/21 | HL-10.13 | 4/20/20 | MT-120.00 | 1/19/18 | TC-84.21 | 10/18/13 | 836 | 1/19/18 | |
| | | HL-20.11 | 1/15/21 | | | TC-85.10 | 4/17/20 | 872 | 1/21/22 | |
| | | HL-30.11 | 1/15/21 | TC-17.11 | 1/21/22 | TC-85.21 | 7/16/21 | 874 | 4/17/20 | |
| | | ML-38.22 | 7/15/21 | TC-21.21 | 7/16/21 | TC-85.22 | 1/19/18 | 875 | 1/18/19 | |
| DM-1.1 | 7/17/20 | | | TC-41.20 | 10/18/13 | | | 902 | 10/31/12 | |
| DM-1.2 | 7/16/21 | HL-60.11 | 7/20/17 | TC-42.20 | 10/18/13 | | | 909 | 1/21/22 | |
| DM-4.3 | 1/15/16 | HL-60.12 | 7/16/21 | TC-52.10 | 10/18/13 | | | 913 | 4/20/12 | |
| DM-4.4 | 1/15/16 | | | TC-52.20 | 1/15/21 | | | 921 | 4/20/12 | |
| | | MT-97.10 | 4/19/19 | TC-64.10 | 7/16/21 | | | | | |
| RM-1.1 | 1/15/21 | MT-97.12 | 1/20/17 | TC-65.10 | 1/17/14 | | | | | |
| RM-4.2 | 4/17/20 | MT-99.20 | 4/19/19 | TC-65.11 | 7/21/17 | | | | | |

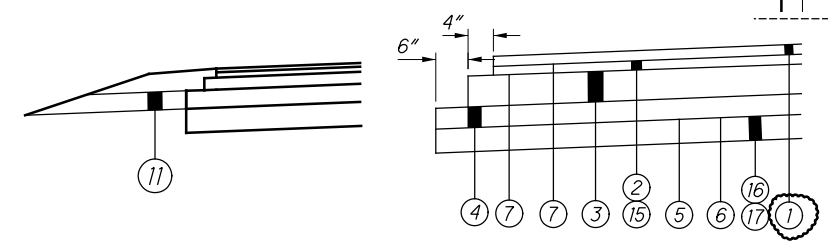
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FEDERAL PROJECT NO. E191(295)
PID NO. 110409
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
FAI-158-07.25
1/131

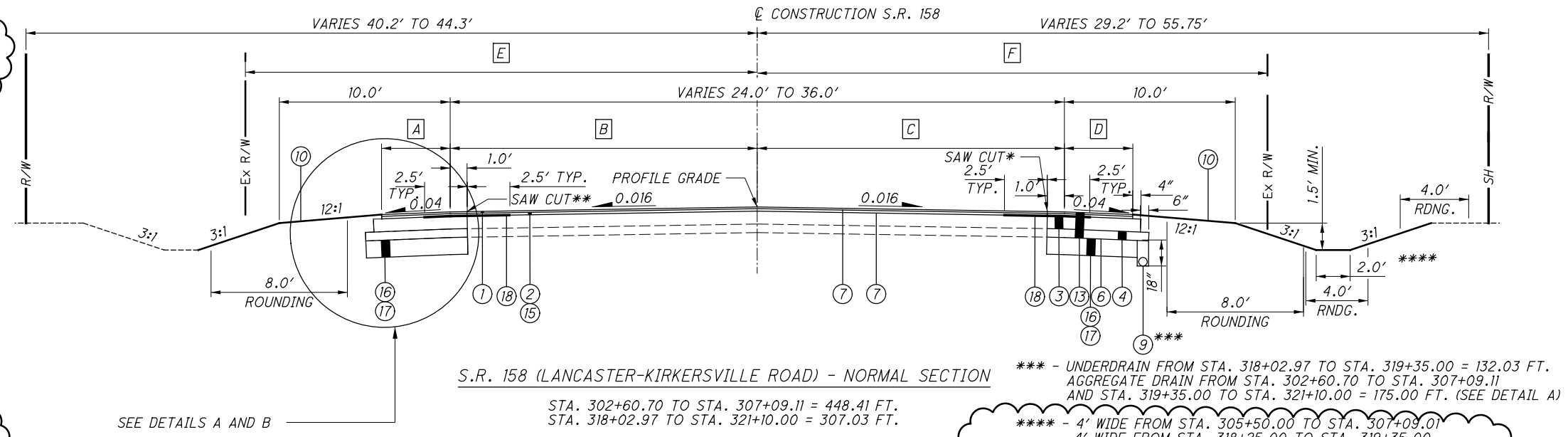
PROPOSED LEGEND

- ① ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M
- ② ITEM 441 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
- ③ ITEM 301 - 3" ASPHALT CONCRETE BASE
- ④ ITEM 304 - 6" AGGREGATE BASE
- ⑤ ITEM 204 - SUBGRADE COMPACTION
- ⑥ ITEM 204 - PROOF ROLLING
- ⑦ ITEM 407 - NON-TRACKING TACK COAT
- ⑧ ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
- ⑨ ITEM 605 - 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC
- ⑩ ITEM 659 - SEEDING AND MULCHING
- ⑪ ITEM 605 - AGGREGATE DRAINS
- ⑫ ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, 3" AVERAGE
- ⑬ ITEM 202 - PAVEMENT REMOVED
- ⑭ ITEM 441 - 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- ⑮ ITEM 441 - ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), (VARIABLE THICKNESS)
- ⑯ ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
- ⑰ ITEM 206 - CURING COAT
- ⑱ ITEM 690 - SPECIAL - REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS

- A 2.0'± STA. 302+60.70
VARIES 2.0'± TO 4.0' STA. 302+60.70 TO STA. 302+82.86
4.0' STA. 302+82.86 TO STA. 317+38.00
VARIES 4.0' TO 2.1'± STA. 317+38.00 TO STA. 321+10.00
2.1'± STA. 321+10.00
- B 12.0' STA. 302+60.70 TO STA. 304+50.00
VARIES 12.0' TO 18.0' STA. 304+50.00 TO STA. 309+30.00
18.0' STA. 309+30.00 TO STA. 317+38.00
VARIES 18.0' TO 12.4' STA. 317+38.00 TO STA. 321+10.00
12.4'± STA. 321+10.00
- C 12.0' STA. 302+60.70 TO STA. 304+50.00
VARIES 12.0' TO 18.0' STA. 304+50.00 TO STA. 307+80.00
18.0' STA. 307+80.00 TO STA. 315+88.00
VARIES 18.0' TO 11.6' STA. 315+88.00 TO STA. 321+10.00
11.6'± STA. 321+10.00
- D 2.0'± STA. 302+60.70
VARIES 2.0'± TO 4.0' STA. 302+60.70 TO STA. 302+82.86
4.0' STA. 302+82.86 TO STA. 315+88.00
VARIES 4.0' TO 4.1'± STA. 317+38.00 TO STA. 320+52.07
VARIES 4.1'± TO 3.0'± STA. 320+52.07 TO STA. 321+10.00
3.0'± STA. 321+10.00
- E 30.0' STA. 302+60.70
VARIES 30.0' TO 34.6'± STA. 302+60.70 TO STA. 307+09.11
VARIES 34.6'± TO 49.0'± STA. 307+09.11 TO STA. 310+50.00
VARIES 49.0'± TO 69.6'± STA. 310+50.00 TO STA. 316+00.00
VARIES 69.6'± TO 45.1'± STA. 316+00.00 TO STA. 318+02.97
VARIES 45.1'± TO 43.5'± STA. 318+02.97 TO STA. 321+10.00
43.5'± STA. 321+10.00
- F 30.0' STA. 302+60.70
VARIES 30.0' TO 43.3'± STA. 302+60.70 TO STA. 307+09.11
VARIES 43.3'± TO 35.9'± STA. 307+09.11 TO STA. 310+50.00
VARIES 35.9'± TO 46.6'± STA. 310+50.00 TO STA. 316+00.00
VARIES 46.6'± TO 42.2'± STA. 316+00.00 TO STA. 318+02.97
VARIES 42.2'± TO 40.6'± STA. 318+02.97 TO STA. 321+10.00
40.6'± STA. 321+10.00



DETAIL A - AGGREGATE DRAINS DETAIL B - SHOULDER STEP DETAIL SEE DETAILS A AND B

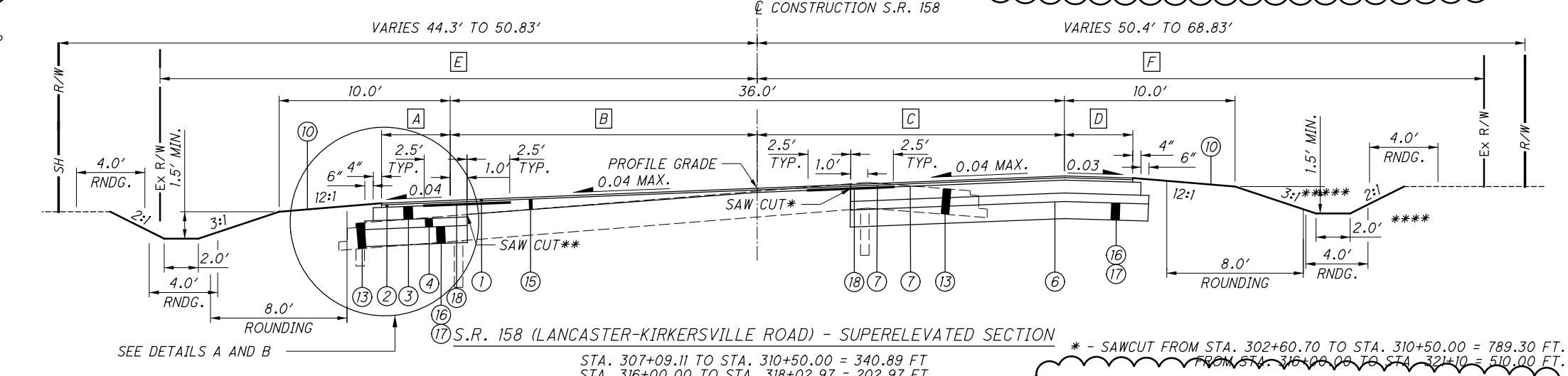


S.R. 158 (LANCASTER-KIRKERSVILLE ROAD) - NORMAL SECTION

STA. 302+60.70 TO STA. 307+09.11 = 448.41 FT.
STA. 318+02.97 TO STA. 321+10.00 = 307.03 FT.

*** - UNDERDRAIN FROM STA. 318+02.97 TO STA. 319+35.00 = 132.03 FT.
AGGREGATE DRAIN FROM STA. 302+60.70 TO STA. 307+09.11
AND STA. 319+35.00 TO STA. 321+10.00 = 175.00 FT. (SEE DETAIL A)

**** - 4' WIDE FROM STA. 305+50.00 TO STA. 307+09.01
4' WIDE FROM STA. 318+25.00 TO STA. 319+35.00



S.R. 158 (LANCASTER-KIRKERSVILLE ROAD) - SUPERELEVATED SECTION

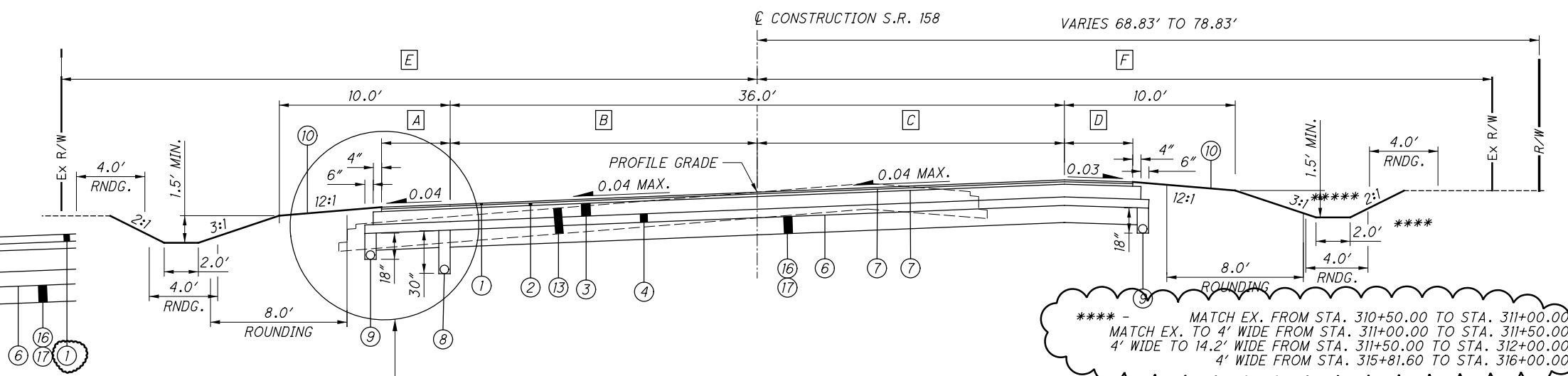
STA. 307+09.11 TO STA. 310+50.00 = 340.89 FT
STA. 316+00.00 TO STA. 318+02.97 = 202.97 FT

** - SAWCUT FROM STA. 302+60.70 TO STA. 310+50.00 = 789.30 FT.
FROM STA. 316+00.00 TO STA. 321+10.00 = 510.00 FT.

* - SAWCUT FROM STA. 302+60.70 TO STA. 310+50.00 = 789.30 FT.
FROM STA. 316+00.00 TO STA. 321+10.00 = 510.00 FT.

**** - 4' WIDE TO MATCH EX. FROM STA. 310+00.00 TO STA. 310+50.00
4' WIDE FROM STA. 307+09.11 TO STA. 310+00.00

***** - TRANSITIONS FROM 3:1 SLOPE TO 4:1 SLOPE
FROM STA. 310+00.00 TO STA. 310+50.00



S.R. 158 (LANCASTER-KIRKERSVILLE ROAD) - SUPERELEVATED SECTION

STA. 310+50.00 TO STA. 316+00.00 = 550 FT.

**** - MATCH EX. FROM STA. 310+50.00 TO STA. 311+00.00
MATCH EX. TO 4' WIDE FROM STA. 311+00.00 TO STA. 311+50.00
4' WIDE TO 14.2' WIDE FROM STA. 311+50.00 TO STA. 312+00.00
4' WIDE FROM STA. 315+81.60 TO STA. 316+00.00

***** - 4:1 SLOPE FROM STA. 310+50.00 TO STA. 313+50.00
TRANSITIONS FROM 4:1 SLOPE TO 3:1 SLOPE
FROM STA. 313+50.00 TO STA. 314+00.00

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PROPOSED TYPICAL SECTIONS - S.R. 158

FAI-158-07.25

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ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 623 CONSTRUCTION LAYOUT STAKES AND SURVEYING, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION TO THE DEPARTMENT:

THE CONTRACTOR SHALL PROVIDE AS-BUILT DATA FOR THE SPECIFIED COMPLETED CONSTRUCTION ITEMS IN OHIO STATE PLANE COORDINATES (GRID). THE CONSTRUCTION ITEMS SHALL BE LOCATED AS PER THE SURVEY FEATURE CODE LIST FOUND ON THE OHIO DEPARTMENT OF TRANSPORTATION OFFICE OF CADD & MAPPING SERVICES WEBSITE. AN EMAIL CONTAINING A COMMA DELIMITED ASCII FILE AND A SURVEYOR'S CERTIFICATION SHALL BE DELIVERED TO CODY.GIERHART@DOT.OHIO.GOV AFTER ALL INFORMATION HAS BEEN COLLECTED. THE ASCII FILE SHALL INCLUDE A HEADER CONTAINING NAME OF SURVEYOR, DATE(S) OF COLLECTION, HORIZONTAL DATUM (I.E. NAD83 (2011), OHIO STATE PLANE COORDINATE SYSTEM NORTH OR SOUTH), VERTICAL DATUM (I.E. NAVD 88, GEOID12A) AND METHOD OF COLLECTION (I.E. OHIO VRS, GPS RTK, TOTAL STATION, ETC.) AND BE IN A TABLE FORM AS FOLLOWS:

POINT NUMBER, NORTHING, EASTING, ELEVATION, FEATURE CODE, DESCRIPTION

BELOW IS A LIST OF THE ITEMS THE CONTRACTOR IS REQUIRED TO PROVIDE FOR THE PROJECT:

- CATCH BASINS
- CULVERTS (INLET AND OUTLET INVERTS, TYPE AND SIZE)
- STORM SEWERS (INLET AND OUTLET INVERTS, TYPE AND SIZE)
- UNDERDRAIN OUTLETS
- POST-CONSTRUCTION BMPS
- SIGNS
- TRAFFIC SIGNAL POLES, PULL BOXES, AND CABINET

THE ABOVE ITEMS SHALL BE COLLECTED USING SURVEY GRADE EQUIPMENT MEETING THE REQUIREMENTS OF SECTION 400 IN THE OHIO DEPARTMENT OF TRANSPORTATION SURVEY & MAPPING SPECIFICATIONS MANUAL.

ALL COST ASSOCIATED WITH OBTAINING THE INFORMATION LISTED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 623 CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT AT MAXIMUM OPERATING HEIGHT SHALL EXCEED A HEIGHT OF 50 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA), AND ODOT OFFICE OF AVIATION, WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1, ADVISING THE FAA THAT AERONAUTICAL STUDY NO. 2021-AGL-26255-OE, 2021-AGL-26256-OE, 2021-AGL-26257-OE, 2021-AGL-26258-OE, 2021-AGL-26290-OE AND 2021-AGL-26291-OE IS BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION IS REQUESTED.

THE PROPOSED SIGNAL POLES HAVE BEEN CLEARED UNDER 2021-AGL-26290-OE AND 2021-AGL-26291-OE

THE PROPOSED ROADWAY HAS BEEN CLEARED UNDER 2021-AGL-26255-OE, 2021-AGL-26256-OE, 2021-AGL-26257-OE AND 2021-AGL-26258-OE

NOTIFY THE ODOT OFFICE OF AVIATION WHEN RESUBMITTING AN FAA FORM 7460-1. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL A COPY OF THE FAA APPROVAL AND THE ODOT OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKE UP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
OBSTRUCTION EVALUATION GROUP
10101 HILLWOOD PARKWAY
FORT WORTH, TX 76177
FAX: (817)-222-5920
<http://ceaaa.faa.gov>

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OHIO 43235

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

- 659, TOPSOIL 1,108 CU. YD.
111.2 CU. YD. PER 1,000 SQ. YD. OF SEEDING AND MULCHING
 $111.2 \times (9,958 \div 1000) = 1,108 \text{ CU. YD.}$
- 659, SEEDING AND MULCHING, CLASS 1 9,958 SQ. YD.
- 659, REPAIR SEEDING AND MULCHING 498 SQ. YD.
5% OF PERMANENT SEEDED AREA
 $0.05 \times 9,958 = 498 \text{ SQ. YD.}$
- 659, COMMERCIAL FERTILIZER 1.34 TON
30 LBS PER 1,000 SQ. FT
 $[(30 \times ((9,958 \times 9) \div 1,000))] \div 2,000 = 1.34 \text{ TON}$
- 659, LIME 2.06 ACRES
 $9,958 \div 4,840 = 2.06 \text{ ACRES}$
- 659, WATER 54 M. GAL.
2 APPLICATIONS AT 0.0027 M. GAL. PER SQ. YD.
 $2 \times (0.0027 \times 9,958) = 54 \text{ M. GAL.}$

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 SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

POST CONSTRUCTION STORM WATER TREATMENT

THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS.

CALCULATED
SHR
CHECKED
CWP

GENERAL NOTES

FAI-158-0725

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| SHEET NUM. | | | | | | | | | | | | | PART. | ITEM | ITEM | GRAND | UNIT | DESCRIPTION | SEE SHEET NO. |
|------------------------|---|-------|----|----|-------|-------|-------|-------|-----|-------|-------|-----|------------|---------|----------|--------|------|--|---------------|
| 8 | 9 | 10 | 15 | 39 | 40 | 41 | 42 | 43 | 44 | 71 | 76 | 110 | 01/SAF /PV | EXT | TOTAL | | | | |
| ROADWAY | | | | | | | | | | | | | | | | | | | |
| LS | | | | | | | 3 | | | | | | LS | 201 | 11000 | LS | | CLEARING AND GRUBBING | |
| | | | | | | | | | | | | | 3 | 202 | 20010 | 3 | EACH | HEADWALL REMOVED | |
| | | 50 | | | 5,643 | 501 | | | | | | | 6,194 | 202 | 23000 | 6,194 | SY | PAVEMENT REMOVED | |
| | | 35 | | | | | 1,009 | | | | | | 1,044 | 202 | 35100 | 1,044 | FT | PIPE REMOVED, 24" AND UNDER | |
| | | | | 16 | | | | | | | | | 16 | 202 | 53100 | 16 | EACH | MAILBOX REMOVED | |
| | | | | | | | | | | | | | 2 | 202 | 58100 | 2 | EACH | CATCH BASIN REMOVED | |
| | | | | | | | | | | | | | 2 | 202 | 75000 | 2 | FT | FENCE REMOVED | |
| | | | | | | 230 | | | | 1,678 | 511 | | 2,419 | 203 | 10000 | 2,419 | CY | EXCAVATION | |
| | | | | | | | | | | 1,486 | 2,801 | | 4,287 | 203 | 20000 | 4,287 | CY | EMBANKMENT | |
| | | | | | 1,628 | 1,499 | | | | | | | 3,127 | 204 | 10000 | 3,127 | SY | SUBGRADE COMPACTION | |
| 2 | | | | | | | | | | | | | 2 | 204 | 45000 | 2 | HOUR | PROOF ROLLING | |
| | | | | | 169 | | | | | | | | 169 | 206 | 10500 | 169 | TON | CEMENT | |
| | | | | | 6,514 | | | | | | | | 6,514 | 206 | 11000 | 6,514 | SY | CURING COAT | |
| | | | | | 6,514 | | | | | | | | 6,514 | 206 | 15010 | 6,514 | SY | CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP | |
| 27 | | | | | | | | | | | | | 27 | 209 | 60200 | 27 | STA | LINEAR GRADING | |
| | | | | | | | | | | | | 9 | 9 | 623 | 40500 | 9 | EACH | REFERENCE MONUMENT | |
| 1,608 | | | | | | | | | | | | | 1,608 | SPECIAL | 69012050 | 1,608 | SY | REINFORCED MESH FOR TRANSVERSE AND/OR LONGITUDINAL JOINTS AND CRACKS | |
| | | | | 16 | | | | | | | | | 16 | SPECIAL | 69050100 | 16 | EACH | MAILBOX SUPPORT SYSTEM, SINGLE | |
| EROSION CONTROL | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | 2 | 8 | | | | | 12 | 601 | 21050 | 12 | SY | TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT | |
| | | | | | | | | | | | | | 2 | 604 | 32204 | 2 | CY | ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC | |
| | | 1,108 | | | | | | | | | | | 1,108 | 659 | 00300 | 1,108 | CY | TOPSOIL | |
| | | 9,958 | | | | | | | | | | | 9,958 | 659 | 00500 | 9,958 | SY | SEEDING AND MULCHING, CLASS 1 | |
| | | 498 | | | | | | | | | | | 498 | 659 | 14000 | 498 | SY | REPAIR SEEDING AND MULCHING | |
| | | 1.34 | | | | | | | | | | | 1.34 | 659 | 20000 | 1.34 | TON | COMMERCIAL FERTILIZER | |
| | | 2.06 | | | | | | | | | | | 2.06 | 659 | 31000 | 2.06 | ACRE | LIME | |
| | | 54 | | | | | | | | | | | 54 | 659 | 35000 | 54 | MGAL | WATER | |
| | | | | | | | 566 | | | | | | 566 | 670 | 00700 | 566 | SY | DITCH EROSION PROTECTION | |
| | | | | | | | 33 | | | | | | 33 | 670 | 00700 | 33 | SY | DITCH EROSION PROTECTION MAT, TYPE A | |
| | | | | | | | | | | | | | 209 | 670 | 00720 | 209 | SY | DITCH EROSION PROTECTION MAT, TYPE B | |
| | | | | | | | | | | | | | LS | 832 | 15000 | LS | | STORM WATER POLLUTION PREVENTION PLAN | |
| | | | | | | | | | | | | | LS | 832 | 15002 | LS | | STORM WATER POLLUTION PREVENTION INSPECTIONS | |
| | | | | | | | | | | | | | LS | 832 | 15010 | LS | | STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE | |
| | | | | | | | | | | | | | 33,873 | 832 | 30000 | 33,873 | EACH | EROSION CONTROL | |
| DRAINAGE | | | | | | | | | | | | | | | | | | | |
| | | | | | | | 1.3 | | | | | | 1.3 | 602 | 20000 | 1.3 | CY | CONCRETE MASONRY | |
| | | | | | | | | 1,143 | | | | | 1,143 | 605 | 11110 | 1,143 | FT | 6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC | |
| 100 | | | | | | | | | | | | | 100 | 605 | 13300 | 100 | FT | 6" UNCLASSIFIED PIPE UNDERDRAINS | |
| | | | | | | | | 384 | | | | | 384 | 605 | 14020 | 384 | FT | 6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC | |
| 50 | | | | | | | | | 526 | | | | 576 | 605 | 31100 | 576 | FT | AGGREGATE DRAINS | |
| 50 | | | | | | | | | | | | | 50 | 611 | 00400 | 50 | FT | 4" CONDUIT, TYPE E | |
| 50 | | | | | | | | | | | | | 50 | 611 | 00406 | 50 | FT | 4" CONDUIT, TYPE F | |
| | | | | | | | | 57 | | | | | 57 | 611 | 00510 | 57 | FT | 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS | |
| 50 | | | | | | | | | | | | | 50 | 611 | 01500 | 50 | FT | 6" CONDUIT, TYPE F | |
| | | | | | | | 101 | | | | | | 101 | 611 | 02000 | 101 | FT | 8" CONDUIT, TYPE C | |
| | | | 35 | | | | 315 | | | | | | 350 | 611 | 04900 | 350 | FT | 12" CONDUIT, TYPE D | |
| | | | | | | | 64 | | | | | | 64 | 611 | 06400 | 64 | FT | 15" CONDUIT, TYPE D | |
| | | | | | | | 10 | | | | | | 10 | 611 | 07900 | 10 | FT | 18" CONDUIT, TYPE D | |
| | | | | | | | 94 | | | | | | 94 | 611 | 08900 | 94 | FT | 21" CONDUIT, TYPE B | |
| | | | | | | | 108 | | | | | | 108 | 611 | 10400 | 108 | FT | 24" CONDUIT, TYPE B | |
| | | | | | | | | | | | | | 17 | 611 | 10600 | 17 | FT | 24" CONDUIT, TYPE C, 706.02 | |
| | | | | | | | | | | | | | 2 | 611 | 98471 | 2 | EACH | CATCH BASIN, NO. 2-2B, AS PER PLAN | |
| | | | | | | | | | | | | | 1 | 611 | 98510 | 1 | EACH | CATCH BASIN, NO. 2-3 | |
| 2 | | | | | | | | 4 | | | | | 6 | 611 | 99710 | 6 | EACH | PRECAST REINFORCED CONCRETE OUTLET | |

GENERAL SUMMARY

FAI-158-07.25

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| STATION | | SIDE | ITEM NO. | | | | 202 | 204 | 255 | 254 | 206 | 206 | 206 | 301 | 304 | 407 | 407 | 441 | 441 | 441 | 441 | SPECIAL | |
|---|-----------|-------|----------|-------------|-----------|-------|------------------|---------------------|----------------------------|--|--------------------------------|--------|-------------|--|-------------------|---|---|--|---|---|---|--|------|
| FROM | TO | | LENGTH | BEGIN WIDTH | END WIDTH | AREA | PAVEMENT REMOVED | SUBGRADE COMPACTION | FULL DEPTH PAVEMENT SAWING | PAVEMENT PLANING, ASPHALT CONCRETE, 3" AVERAGE | 12" CEMENT STABILIZED SUBGRADE | CEMENT | CURING COAT | 9" ASPHALT CONCRETE BASE, PG64-22, (449) | 6" AGGREGATE BASE | NON-TRACKING TACK COAT (0.05 GAL/SQ YD) | NON-TRACKING TACK COAT (0.08 GAL/SQ YD) | 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG70-22M | 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 | 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) | ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449), VARIABLE THICKNESS | MALTENE BASES LONGITUDINAL JOINT STABILIZER @ .10 GAL/SY | |
| | | | FT | FT | FT | SQ FT | SY | SY | FT | SY | TON | SY | CY | CY | GAL | GAL | CY | CY | CY | CY | SF | | |
| LANCASTER-KIRKERSVILLE ROAD (SR 158) | | | | | | | | | | | | | | | | | | | | | | | |
| 302+60.70 | 310+50.00 | LT/RT | 789.30 | 3.5 / 2.8 | 5.7 / 8.3 | 8532 | 948 | | | | | | | | | | | | | | | | |
| 310+50.00 | 316+00.00 | LT/RT | 550.00 | 36.10 | 35.38 | 19529 | 2170 | | | | | | | | | | | | | | | | |
| 316+00.00 | 321+10.00 | LT/RT | 510.00 | 5.08 / 6.4 | 3.1 / 4.6 | 4991 | 555 | 1605 | | | | | | | | | | | | | | | |
| 302+60.70 | 310+50.00 | LT | 789.30 | 3.45 | 2.80 | 2673 | | | | | | | | | | | | | | | | | |
| 302+60.70 | 310+50.00 | RT | 789.30 | 2.79 | 19.08 | 10067 | | | | 429 | 11 | 429 | 82 | 62 | 30 | | | | | | | | |
| 310+50.00 | 311+47.69 | LT/RT | 97.69 | 44.00 | 44.00 | 4292 | | | | 1250 | 32 | 1250 | 287 | 199 | 112 | | | | | | | | |
| 313+45.42 | 316+00.00 | LT/RT | 254.58 | 44.00 | 44.00 | 11284 | | | | 493 | 13 | 493 | 120 | 81 | 48 | | | | | | | | |
| 316+00.00 | 321+10.00 | LT | 510.00 | 3.44 | 3.07 | 2587 | | | | 1296 | 34 | 1296 | 316 | 213 | 125 | | | | | | | | |
| 316+00.00 | 321+10.00 | RT | 510.00 | 16.48 | 4.58 | 5853 | | | | 372 | 10 | 372 | 77 | 56 | 29 | | | | | | | | |
| 316+00.00 | 321+10.00 | | | | | | | | | 735 | 19 | 735 | 167 | 116 | 65 | | | | | | | | |
| 302+60.70 | 307+09.11 | LT/RT | 448.41 | 22.09 | 21.86 | 9891 | | | 1099 | | | | | | | 176 | | | | | | | |
| 307+09.11 | 310+50.00 | LT/RT | 340.89 | 21.86 | 22.13 | 7458 | | | 829 | | | | | | | 133 | | | | | | | |
| 316+00.00 | 318+02.97 | LT/RT | 202.97 | 23.93 | 22.40 | 4591 | | | 510 | | | | | | | 82 | | | | | | | |
| 318+02.97 | 321+10.00 | LT/RT | 307.03 | 22.40 | 21.43 | 6758 | | | 751 | | | | | | | 120 | | | | | | | |
| 302+60.70 | 311+80.00 | LT | 919.30 | 2.00 | 2.00 | 1839 | | | | | | | | | | | | | | | 1839 | | |
| 313+80.00 | 321+10.00 | RT | 730.00 | 2.00 | 2.00 | 1460 | | | | | | | | | | | | | | | 1460 | | |
| INTERSECTION OF PLEASANTVILLE ROAD (CR 17) AND LANCASTER-KIRKERSVILLE ROAD (SR 158) | | | | | | | | | | | | | | | | | | | | | | | |
| 311+47.69 | 313+45.42 | LT/RT | 197.73 | 44.00 | 44.00 | 16643 | | | | | | | | | | | | | | | | | |
| 104+89.99 | 106+97.71 | | 207.72 | 30.00 | 30.32 | | | | | | 1938 | 50 | 1938 | 466 | 315 | 185 | | | 64 | | 90 | | |
| PLEASANTVILLE ROAD (CR 17) | | | | | | | | | | | | | | | | | | | | | | | |
| 103+25.00 | 104+17.00 | LT/RT | 92.00 | 2.3 / 2.5 | 5.6 / 3.7 | 530 | 59 | | | | | | | | | | | | | | | | |
| 104+17.00 | 105+80.63 | LT/RT | 163.63 | 28.00 | 99.79 | 5352 | 595 | | | | | | | | | | | | | | | | |
| 106+19.35 | 110+75.00 | LT/RT | 455.65 | 83.51 | 20.89 | 11527 | 1281 | | | | | | | | | | | | | | | | |
| 110+75.00 | 111+67.00 | LT/RT | 92.00 | 1.9 / 1.0 | 1.8 / 1.7 | 326 | 36 | | | | | | | | | | | | | | | | |
| 103+25.00 | 104+17.00 | LT | 92.00 | 2.31 | 5.62 | 366 | | | | | | | 11 | 8 | 4 | | | | | | | | |
| 103+25.00 | 104+17.00 | RT | 92.00 | 2.48 | 3.68 | 278 | | | | | | | 9 | 7 | 3 | | | | | | | | |
| 104+17.00 | 104+89.99 | LT/RT | 72.99 | 28.00 | 30.00 | 2087 | | | | | | | 59 | 40 | 23 | | | | | | | | |
| 106+97.71 | 110+75.00 | LT/RT | 377.29 | 30.32 | 28.00 | 10613 | | | | | | | 298 | 202 | 118 | | | | | | | | |
| 110+75.00 | 111+67.00 | LT | 92.00 | 6.56 | 1.82 | 385 | | | | | | | 12 | 9 | 4 | | | | | | | | |
| 110+75.00 | 111+67.00 | RT | 92.00 | 3.43 | 1.71 | 236 | | | | | | | 7 | 6 | 3 | | | | | | | | |
| 103+25.00 | 104+17.00 | LT/RT | 92.00 | 19.16 | 18.70 | 1742 | | | | | | | | | | 31 | | | | | | | |
| 110+75.00 | 111+67.00 | LT/RT | 92.00 | 18.01 | 18.04 | 1658 | | | | | | | | | | 29 | | | | | | | |
| SUBTOTAL | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | | | 5643 | 1628 | 3076 | 3567 | 6514 | 169 | 6514 | 1911 | 1313 | 749 | 571 | | 318 | 67 | 538 | 183 | 3299 |

PAVEMENT SUBSUMMARY

FAI-158-07.25

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CWP

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131

P:\CLE\DOT\Projects\50710\073 - FAI-158-07.25\FAI\0409\Design\Roadway\Sheets\BMP_Changes\10409_G5003.dgn Sheet 2/10/2022 8:20:58 AM PRE47802

| ITEM NO. | | | | | | | | 202 | 203 | 204 | 301 | 304 | 407 | 441 | | | | | | | | | | |
|--------------------------------------|---------------|-----------|------|-----------------------------------|--|------------|------------|------------------|------------|---------------------|---|-------------------|--|---|----|--|--|--|--|--|--|--|--|--|
| SHEET NO. | REFERENCE NO. | STATION | SIDE | DRIVE TYPE (RESID / COMM / FIELD) | EXISTING SURFACE (ASPHALT / CONCRETE / GRAVEL) | APRON AREA | DRIVE AREA | PAVEMENT REMOVED | EXCAVATION | SUBGRADE COMPACTION | 3.5" ASPHALT CONCRETE BASE, PG64-22, (449), (DRIVEWAYS) | 8" AGGREGATE BASE | NON-TRACKING TACK COAT, (0.05 GAL/SQ YD) | 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS) | | | | | | | | | | |
| | | | | (R/C/F) | (A/C/G) | SQ FT | SQ FT | SY | CY | SY | CY | CY | CY | GAL | CY | | | | | | | | | |
| LANCASTER-KIRKERSVILLE ROAD (SR 158) | | | | | | | | | | | | | | | | | | | | | | | | |
| 47 | DR-1 | 303+48.51 | RT | R | A | | 297 | 40 | | 34 | 4 | | 2 | 2 | | | | | | | | | | |
| 47 | DR-2 | 304+83.69 | RT | R | G | 104 | 249 | | 11 | 40 | 1 | 9 | 1 | 1 | | | | | | | | | | |
| 47 | DR-3 | 305+70.00 | LT | R | A | | 644 | 58 | | 72 | 7 | | 4 | 3 | | | | | | | | | | |
| 47 | DR-4 | 307+10.00 | RT | R | G | 123 | 260 | | 14 | 43 | 1 | 10 | 1 | 1 | | | | | | | | | | |
| 47 | DR-5 | 307+56.75 | LT | R | A | | 384 | 28 | | 43 | 5 | | 3 | 2 | | | | | | | | | | |
| 49 | DR-6 | 313+88.00 | RT | R | A | | 298 | 54 | | 34 | 4 | | 2 | 2 | | | | | | | | | | |
| 49 | DR-7 | 314+70.10 | LT | R | A | | 498 | 50 | | 56 | 6 | | 3 | 2 | | | | | | | | | | |
| 49 | DR-8 | 314+92.50 | RT | R | A | | 561 | 73 | | 63 | 7 | | 4 | 3 | | | | | | | | | | |
| 49 | DR-9 | 315+58.80 | RT | R | G | 123 | 291 | | 13 | 46 | 2 | 11 | 1 | 1 | | | | | | | | | | |
| 49 | DR-10 | 317+14.50 | LT | R | A | | 544 | 58 | | 61 | 6 | | 4 | 3 | | | | | | | | | | |
| 49 | DR-11 | 317+79.20 | RT | R | G | 107 | 200 | | 11 | 35 | 2 | 8 | 1 | 1 | | | | | | | | | | |
| 50 | DR-12 | 319+48.87 | RT | R | G | 114 | 141 | | 10 | 29 | 2 | 7 | 1 | 1 | | | | | | | | | | |
| 50 | DR-13 | 320+82.90 | LT | R | G | 89 | 248 | | 9 | 38 | 1 | 9 | 1 | 1 | | | | | | | | | | |
| 50 | DR-14 | 322+88.45 | LT | R | G | 107 | 272 | | 9 | 43 | 2 | 10 | 1 | 1 | | | | | | | | | | |
| 51 | DR-15 | 323+52.84 | LT | R | G | 190 | 482 | | 14 | 75 | 3 | 17 | 2 | 1 | | | | | | | | | | |
| 51 | DR-16 | 325+13.49 | LT | R | G | 111 | 190 | | 6 | 34 | 2 | 8 | 1 | 1 | | | | | | | | | | |
| PLEASANTVILLE ROAD (CR 17) | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | DR-17 | 103+86.90 | RT | R | A | | 819 | 82 | | 91 | 9 | | 5 | 4 | | | | | | | | | | |
| 52 | DR-18 | 104+47.29 | LT | R | A | | 476 | 58 | | 53 | 6 | | 3 | 2 | | | | | | | | | | |
| 53 | DR-19 | 107+19.28 | RT | R | G | | 1227 | | 30 | | | | | | | | | | | | | | | |
| 54 | DR-20 | 110+62.71 | LT | R | G | 111 | 126 | | 8 | 27 | 2 | 6 | 1 | 1 | | | | | | | | | | |
| 54 | DR-21 | 110+62.71 | RT | R | G | 156 | 5082 | | | 582 | 2 | 130 | 1 | 1 | | | | | | | | | | |
| 54 | DR-22 | 111+33.23 | RT | R | G | | 3862 | | 95 | | | | | | | | | | | | | | | |
| TOTALS CARRIED TO GENERAL SUMMARY | | | | | | | | 501 | 230 | 1499 | 75 | 225 | 42 | 34 | | | | | | | | | | |

| | | | |
|----------------------------|-----|---------|-----|
| CALCULATED | SHR | CHECKED | CWP |
| DRIVEWAY SUBSUMMARY | | | |
| FAI-158-07.25 | | | |
| 41 | | 131 | |

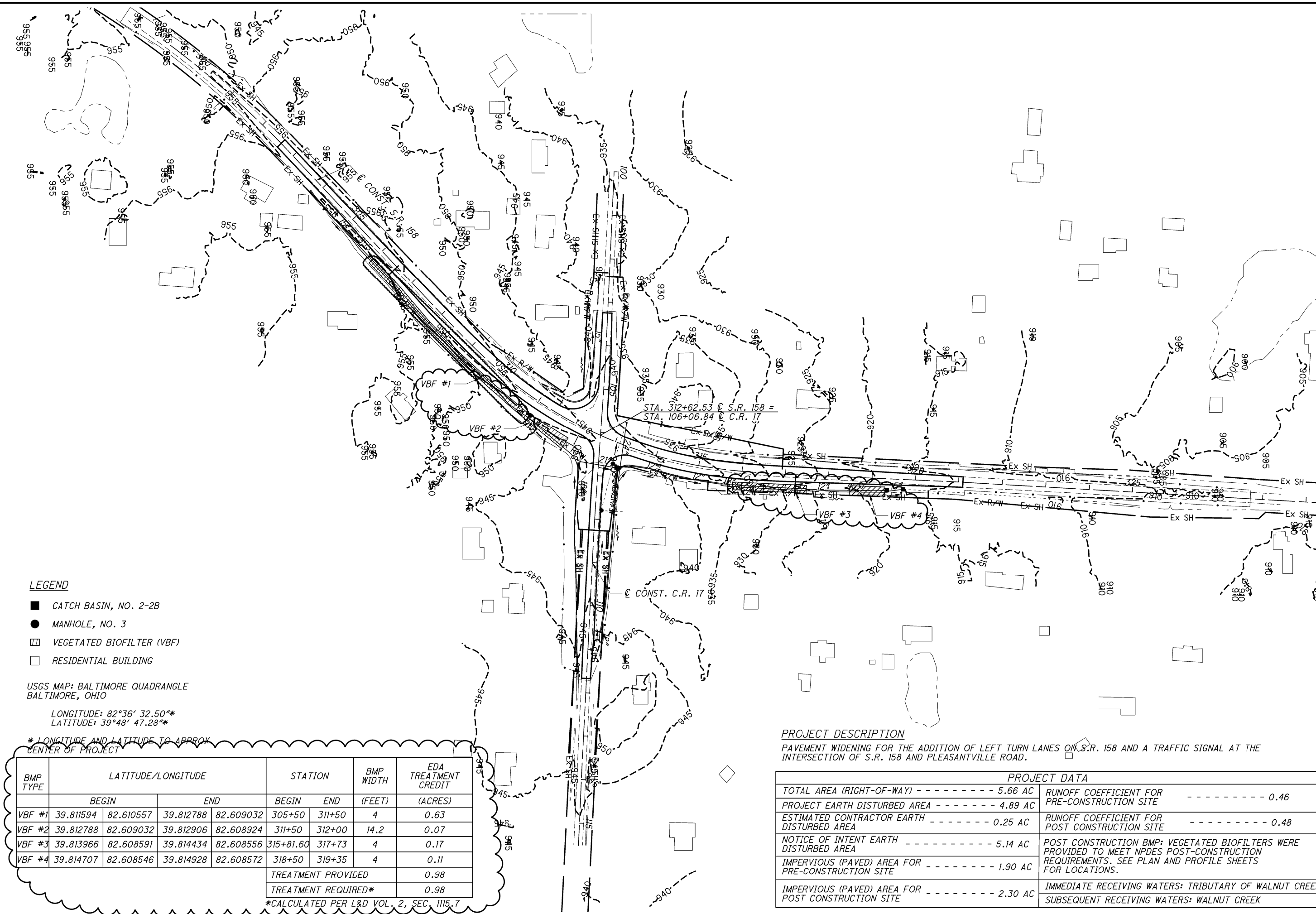
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HORIZONTAL
SCALE IN FEET

PROJECT SITE PLAN

FAI-158-07.25



LEGEND

- CATCH BASIN, NO. 2-2B
- MANHOLE, NO. 3
- ▨ VEGETATED BIOFILTER (VBF)
- RESIDENTIAL BUILDING

USGS MAP: BALTIMORE QUADRANGLE
BALTIMORE, OHIO

LONGITUDE: 82°36' 32.50"*
LATITUDE: 39°48' 47.28"*

* LONGITUDE AND LATITUDE TO APPROX
CENTER OF PROJECT

| BMP TYPE | LATITUDE/LONGITUDE | | | | STATION | | BMP WIDTH (FEET) | EDA TREATMENT CREDIT (ACRES) |
|---------------------|--------------------|-----------|-----------|-----------|-----------|--------|------------------|------------------------------|
| | BEGIN | END | BEGIN | END | BEGIN | END | | |
| VBF #1 | 39.811594 | 82.610557 | 39.812788 | 82.609032 | 305+50 | 311+50 | 4 | 0.63 |
| VBF #2 | 39.812788 | 82.609032 | 39.812906 | 82.608924 | 311+50 | 312+00 | 14.2 | 0.07 |
| VBF #3 | 39.813966 | 82.608591 | 39.814434 | 82.608556 | 315+81.60 | 317+73 | 4 | 0.17 |
| VBF #4 | 39.814707 | 82.608546 | 39.814928 | 82.608572 | 318+50 | 319+35 | 4 | 0.11 |
| TREATMENT PROVIDED | | | | | | | | 0.98 |
| TREATMENT REQUIRED* | | | | | | | | 0.98 |

*CALCULATED PER L&D VOL. 2, SEC. 1115.7

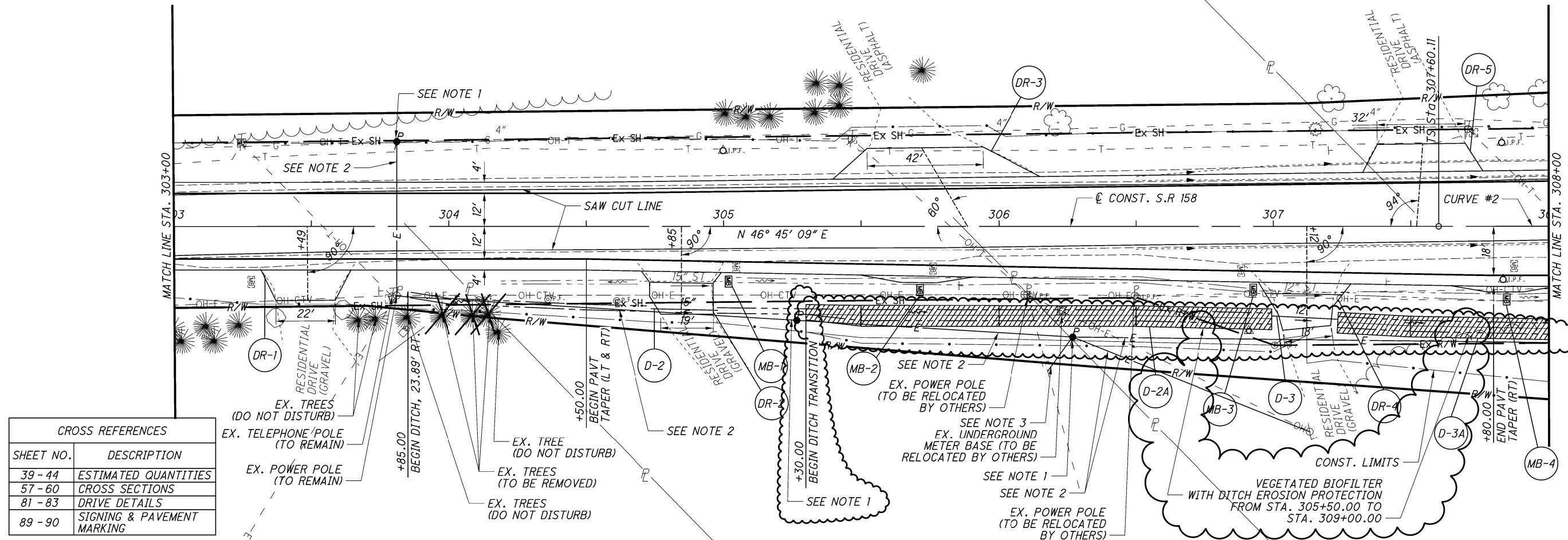
PROJECT DESCRIPTION

PAVEMENT WIDENING FOR THE ADDITION OF LEFT TURN LANES ON S.R. 158 AND A TRAFFIC SIGNAL AT THE INTERSECTION OF S.R. 158 AND PLEASANTVILLE ROAD.

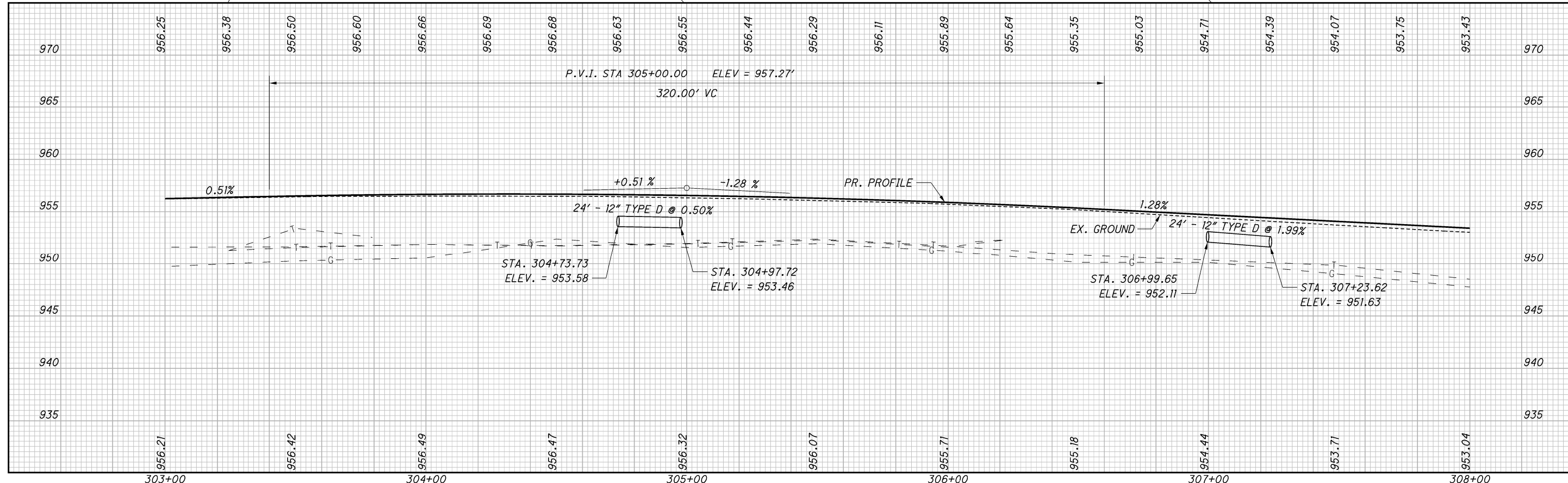
| PROJECT DATA | |
|--|---------|
| TOTAL AREA (RIGHT-OF-WAY) ----- | 5.66 AC |
| PROJECT EARTH DISTURBED AREA ----- | 4.89 AC |
| ESTIMATED CONTRACTOR EARTH DISTURBED AREA ----- | 0.25 AC |
| NOTICE OF INTENT EARTH DISTURBED AREA ----- | 5.14 AC |
| IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE ----- | 1.90 AC |
| IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE ----- | 2.30 AC |
| RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE ----- | 0.46 |
| RUNOFF COEFFICIENT FOR POST CONSTRUCTION SITE ----- | 0.48 |
| POST CONSTRUCTION BMP: VEGETATED BIOFILTERS WERE PROVIDED TO MEET NPDES POST-CONSTRUCTION REQUIREMENTS. SEE PLAN AND PROFILE SHEETS FOR LOCATIONS. | |
| IMMEDIATE RECEIVING WATERS: TRIBUTARY OF WALNUT CREEK SUBSEQUENT RECEIVING WATERS: WALNUT CREEK | |

NOTES:

1. PROPOSED POWER POLE (BY OTHERS)
2. PROPOSED OVERHEAD ELECTRIC (BY OTHERS)
3. PROPOSED UNDERGROUND ELECTRIC (BY OTHERS)



| CROSS REFERENCES | |
|------------------|----------------------------|
| SHEET NO. | DESCRIPTION |
| 39 - 44 | ESTIMATED QUANTITIES |
| 57 - 60 | CROSS SECTIONS |
| 81 - 83 | DRIVE DETAILS |
| 89 - 90 | SIGNING & PAVEMENT MARKING |



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PLAN AND PROFILE - S.R. 158
STA. 303+00.00 TO STA. 308+00.00

FAI-158-07.25

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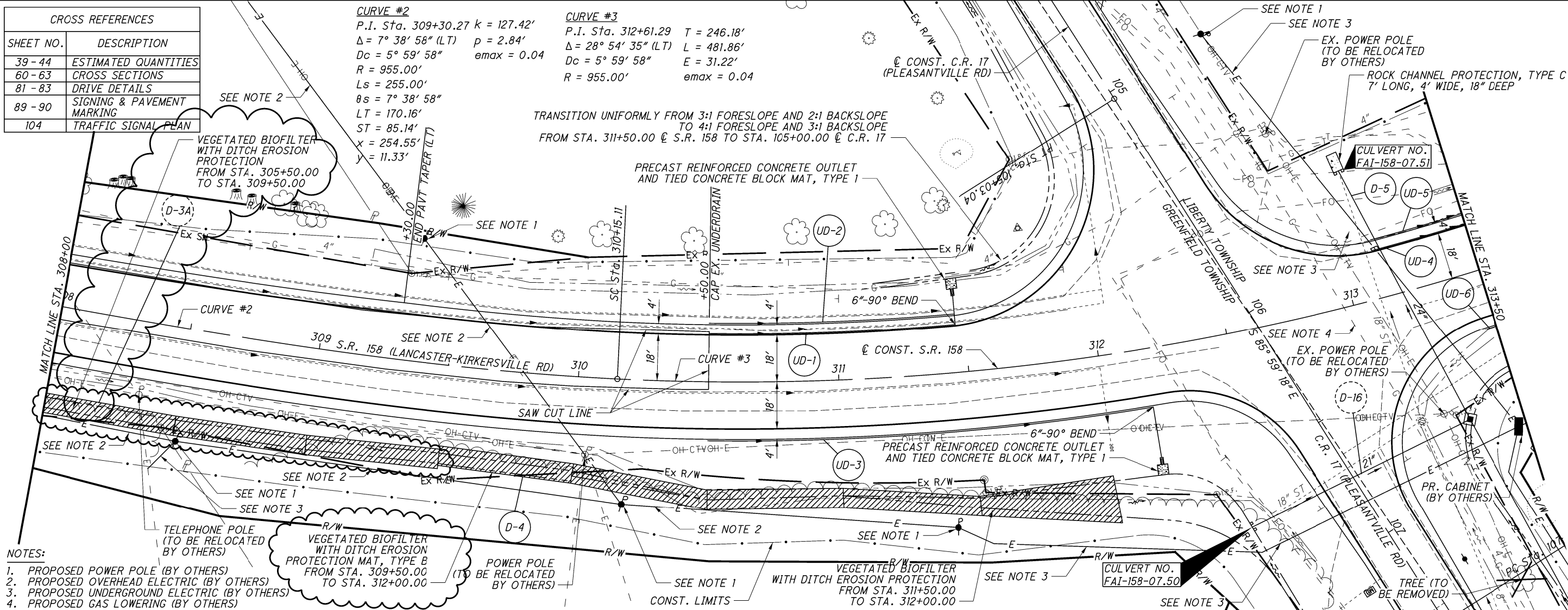
| CROSS REFERENCES | |
|------------------|----------------------------|
| SHEET NO. | DESCRIPTION |
| 39 - 44 | ESTIMATED QUANTITIES |
| 60 - 63 | CROSS SECTIONS |
| 81 - 83 | DRIVE DETAILS |
| 89 - 90 | SIGNING & PAVEMENT MARKING |
| 104 | TRAFFIC SIGNAL PLAN |

CURVE #2
 P.I. Sta. 309+30.27 $k = 127.42'$
 $\Delta = 7^\circ 38' 58" (LT)$ $p = 2.84'$
 $Dc = 5^\circ 59' 58"$ $e_{max} = 0.04$
 $R = 955.00'$
 $Ls = 255.00'$
 $\theta_s = 7^\circ 38' 58"$
 $LT = 170.16'$
 $ST = 85.14'$
 $X = 254.55'$
 $Y = 11.33'$

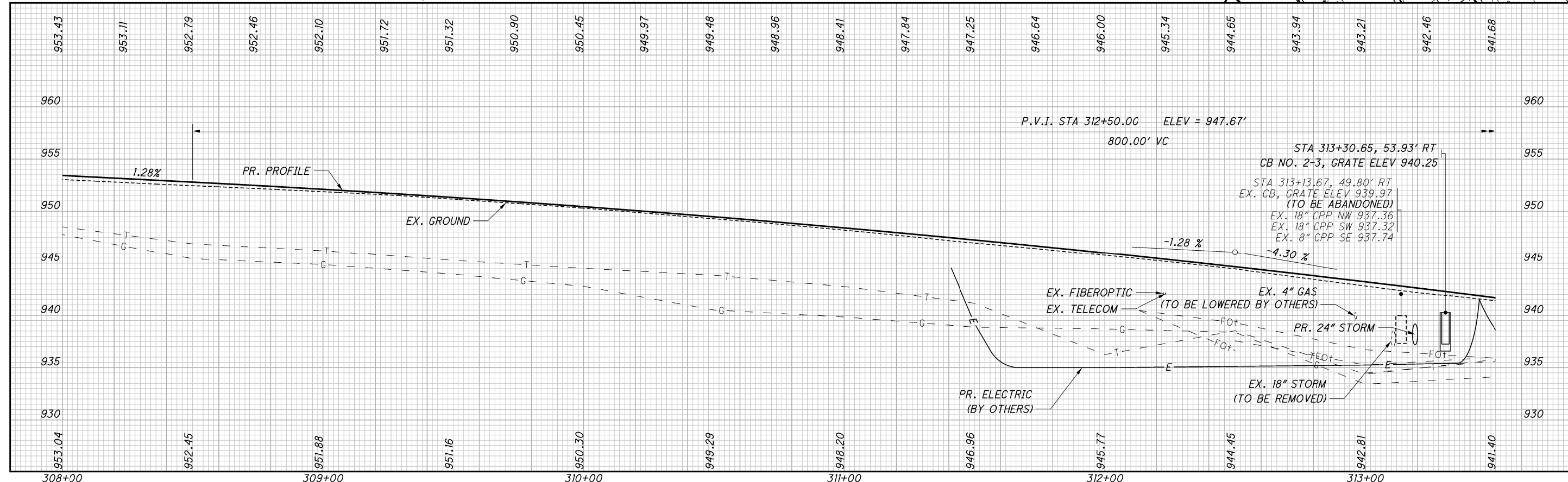
CURVE #3
 P.I. Sta. 312+61.29 $T = 246.18'$
 $\Delta = 28^\circ 54' 35" (LT)$ $L = 481.86'$
 $Dc = 5^\circ 59' 58"$ $E = 31.22'$
 $R = 955.00'$ $e_{max} = 0.04$

TRANSITION UNIFORMLY FROM 3:1 FORESLOPE AND 2:1 BACKSLOPE TO 4:1 FORESLOPE AND 3:1 BACKSLOPE FROM STA. 311+50.00 @ S.R. 158 TO STA. 105+00.00 @ C.R. 17

PRECAST REINFORCED CONCRETE OUTLET AND TIED CONCRETE BLOCK MAT, TYPE 1



- NOTES:**
1. PROPOSED POWER POLE (BY OTHERS)
 2. PROPOSED OVERHEAD ELECTRIC (BY OTHERS)
 3. PROPOSED UNDERGROUND ELECTRIC (BY OTHERS)
 4. PROPOSED GAS LOWERING (BY OTHERS)



PLAN AND PROFILE - S.R. 158
STA. 308+00.00 TO STA. 313+50.00

FAI-158-07.25

48
131

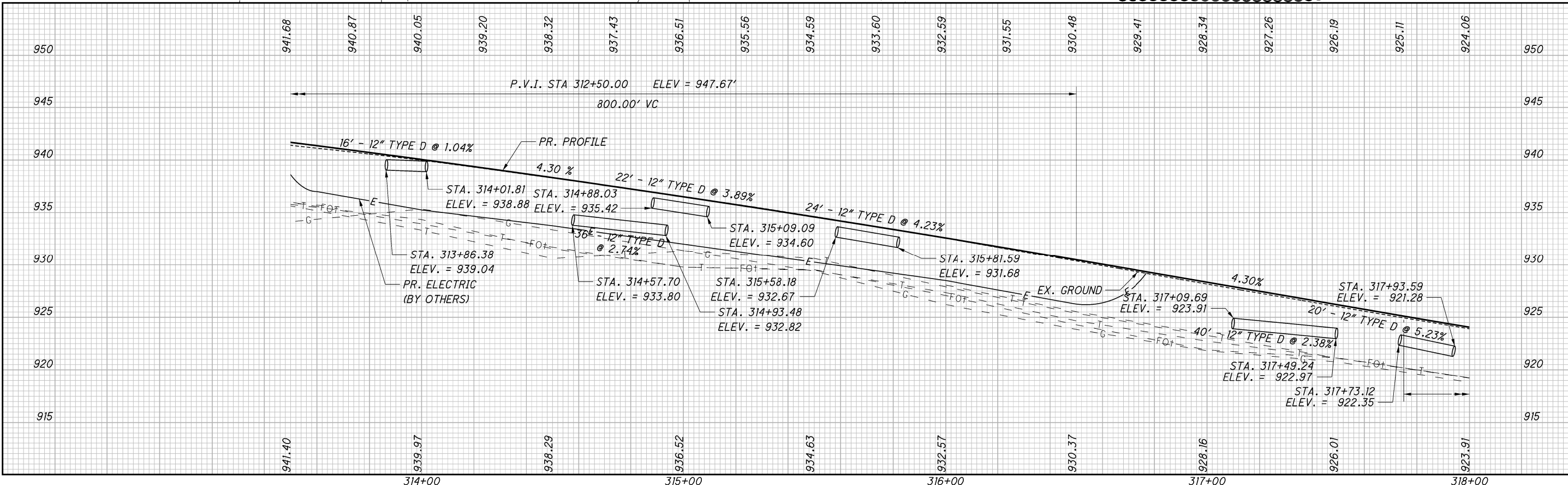
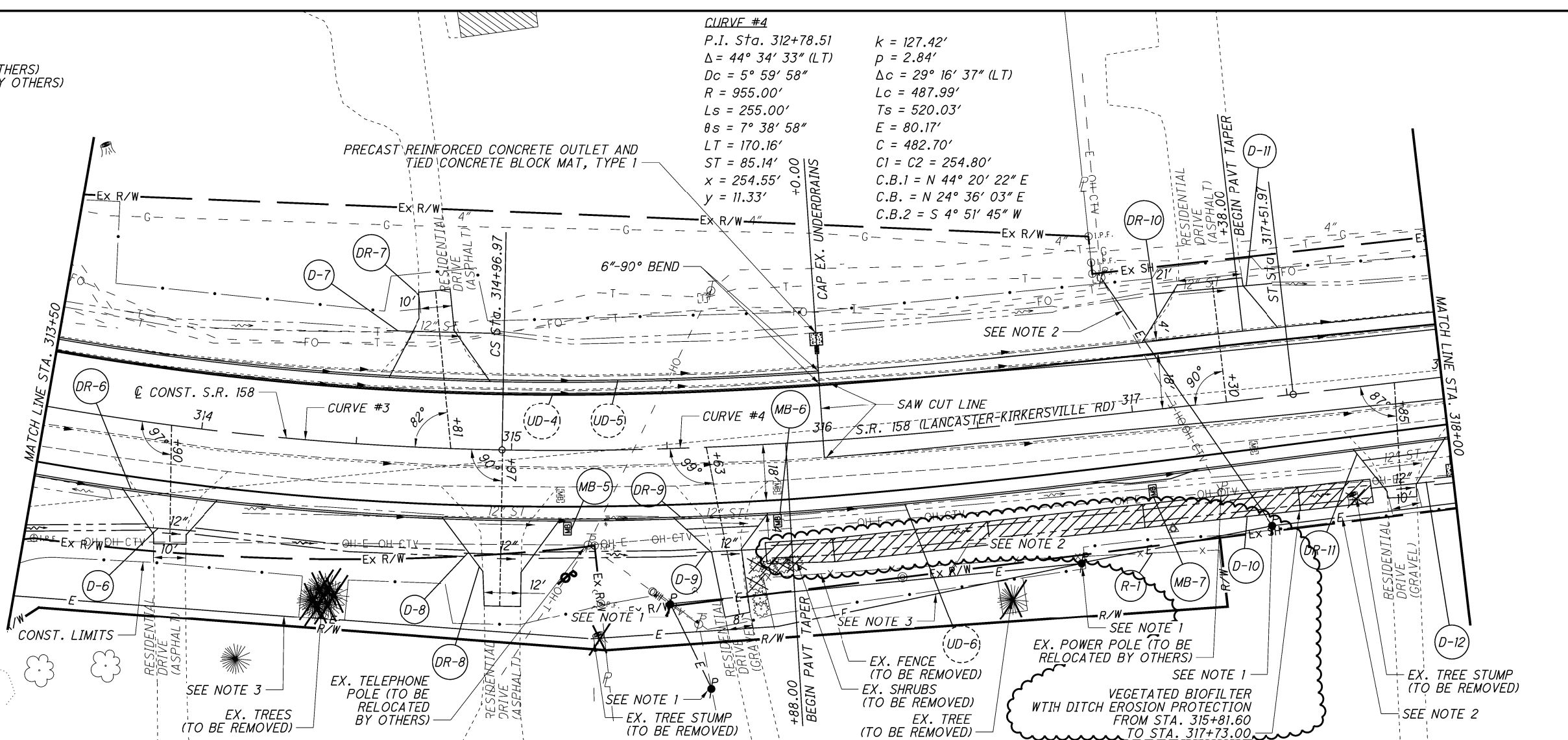
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NOTES:

1. PROPOSED POWER POLE (BY OTHERS)
2. PROPOSED OVERHEAD ELECTRIC (BY OTHERS)
3. PROPOSED UNDERGROUND ELECTRIC (BY OTHERS)

CURVE #4
 P.I. Sta. 312+78.51 $K = 127.42'$
 $\Delta = 44^\circ 34' 33''$ (LT) $p = 2.84'$
 $Dc = 5^\circ 59' 58''$ $\Delta c = 29^\circ 16' 37''$ (LT)
 $R = 955.00'$ $Lc = 487.99'$
 $Ls = 255.00'$ $E = 520.03'$
 $\theta s = 7^\circ 38' 58''$ $C = 482.70'$
 $LT = 170.16'$ $C1 = C2 = 254.80'$
 $ST = 85.14'$ $C.B.1 = N 44^\circ 20' 22'' E$
 $x = 254.55'$ $C.B.2 = N 24^\circ 36' 03'' E$
 $y = 11.33'$ $C.B.2 = S 4^\circ 51' 45'' W$

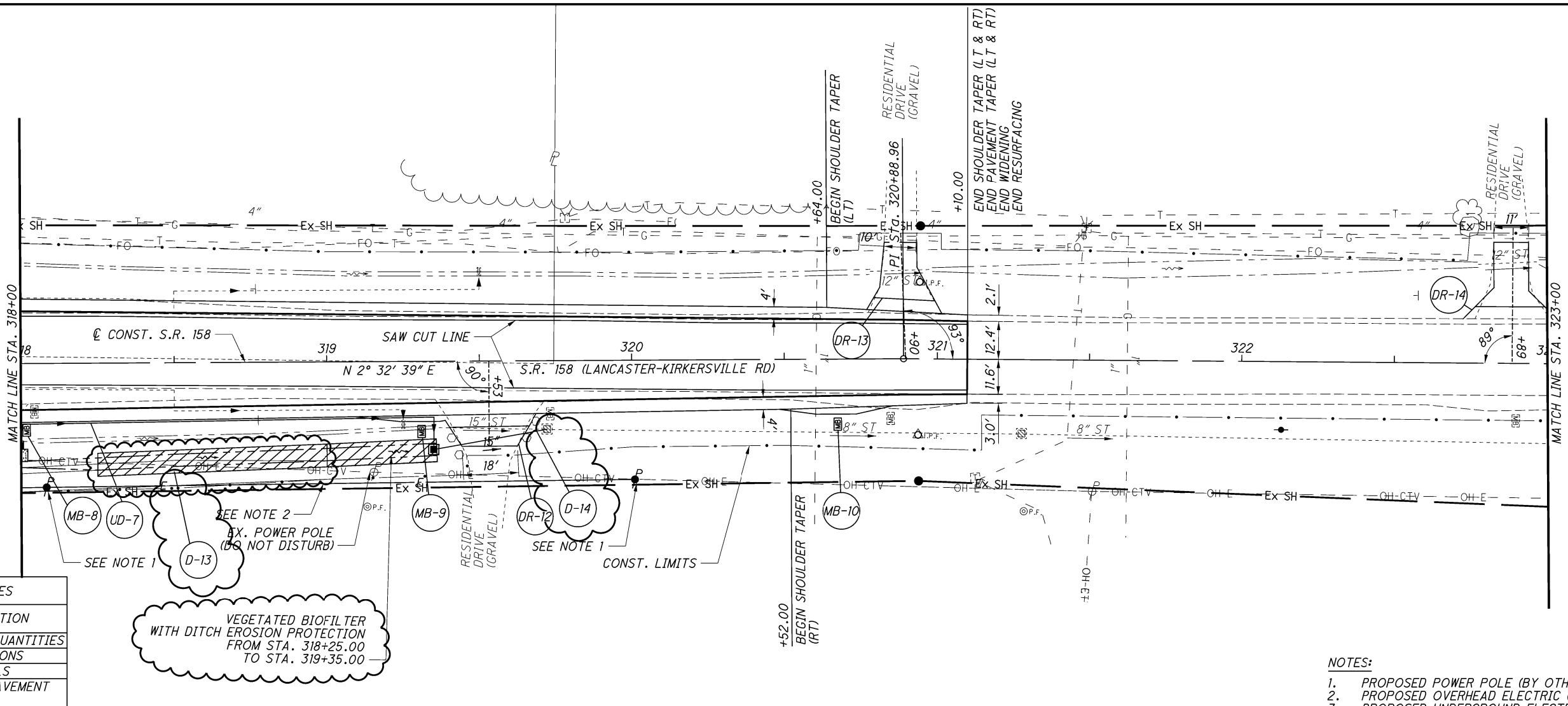
| CROSS REFERENCES | |
|------------------|----------------------------|
| SHEET NO. | DESCRIPTION |
| 39 - 44 | ESTIMATED QUANTITIES |
| 63 - 66 | CROSS SECTIONS |
| 81 - 83 | DRIVE DETAILS |
| 90 - 91 | SIGNING & PAVEMENT MARKING |



PLAN AND PROFILE - S.R. 158
 STA. 313+50.00 TO STA. 318+00.00

FAI-158-07.25

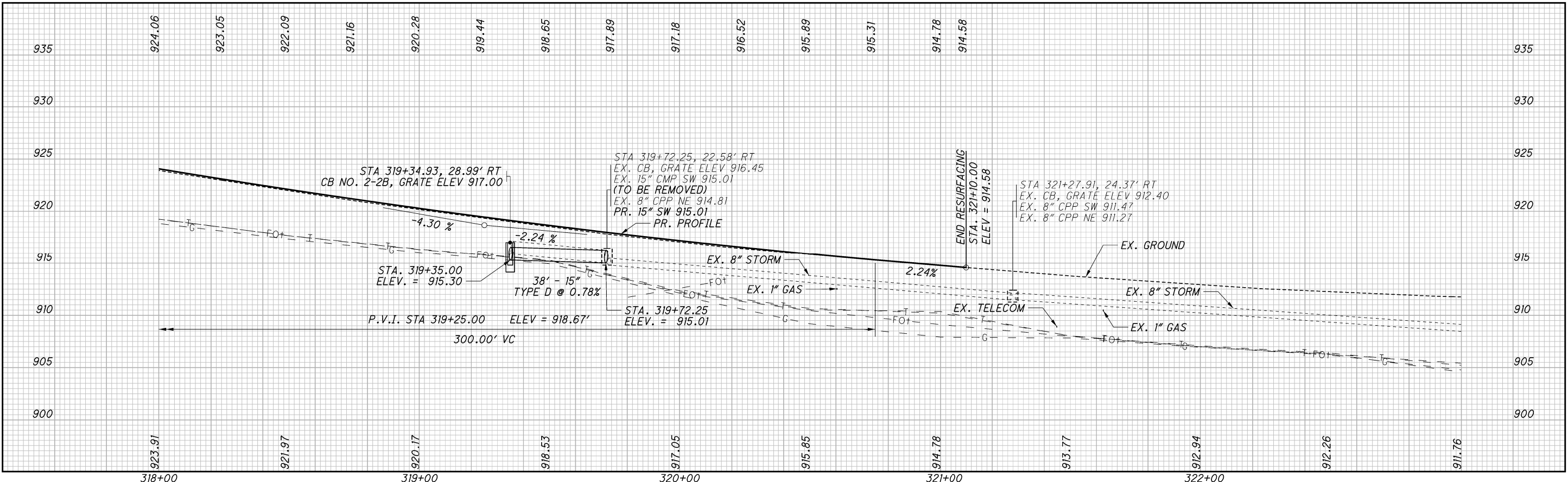
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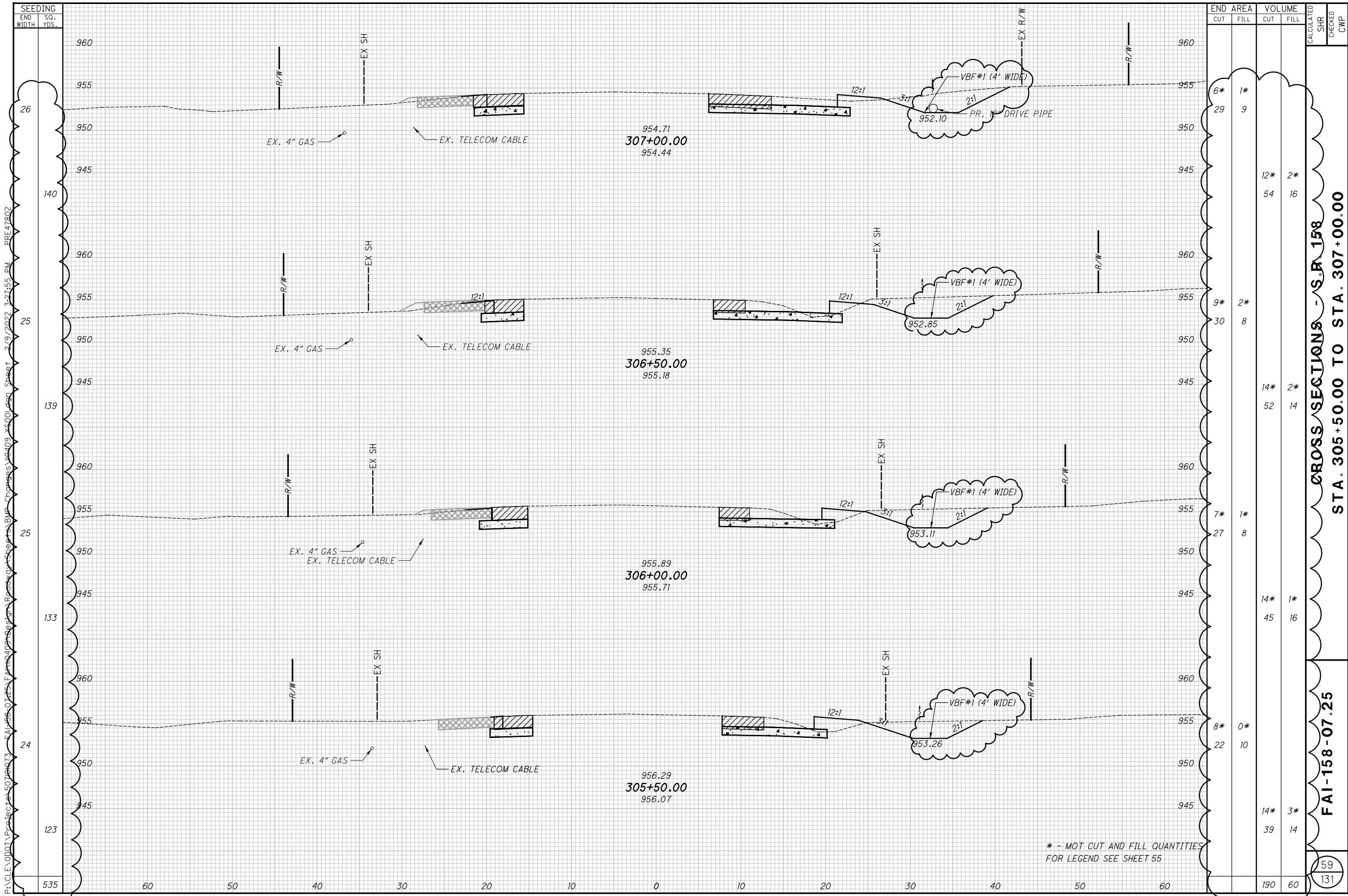


| CROSS REFERENCES | |
|------------------|----------------------------|
| SHEET NO. | DESCRIPTION |
| 39 - 44 | ESTIMATED QUANTITIES |
| 66 - 69 | CROSS SECTIONS |
| 81 - 83 | DRIVE DETAILS |
| 90 - 91 | SIGNING & PAVEMENT MARKING |

VEGETATED BIOFILTER WITH DITCH EROSION PROTECTION FROM STA. 318+25.00 TO STA. 319+35.00

- NOTES:
1. PROPOSED POWER POLE (BY OTHERS)
 2. PROPOSED OVERHEAD ELECTRIC (BY OTHERS)
 3. PROPOSED UNDERGROUND ELECTRIC (BY OTHERS)





| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |
| 26 | 140 |
| 25 | 139 |
| 25 | 133 |
| 24 | 123 |
| 535 | |

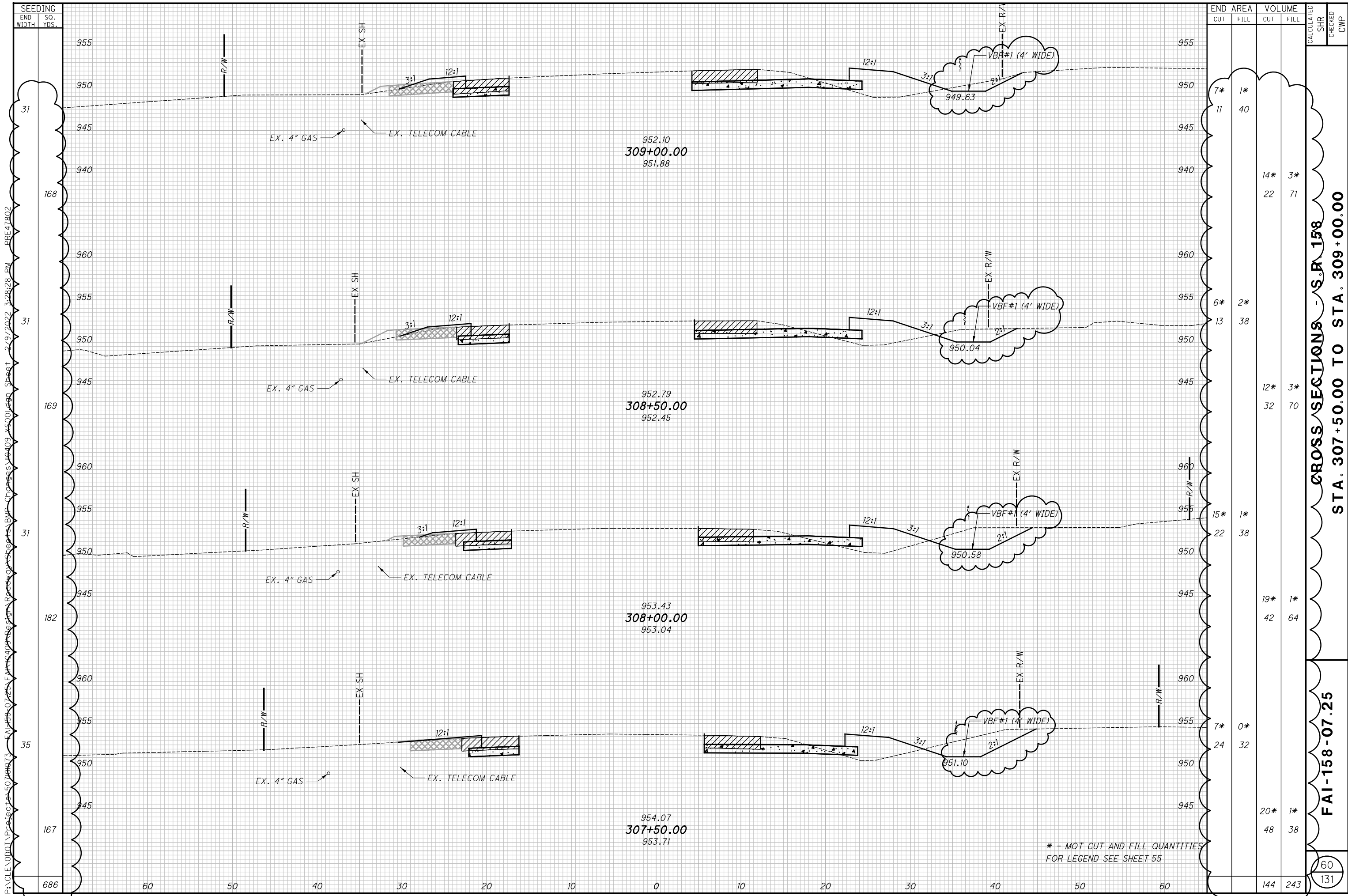
| END AREA | | VOLUME | | CALCULATED SHR | CHECKED CWP |
|----------|------|--------|------|----------------|-------------|
| CUT | FILL | CUT | FILL | | |
| 6* | 1* | 29 | 9 | | |
| | | 12* | 2* | | |
| | | 54 | 16 | | |
| | | 9* | 2* | | |
| | | 30 | 8 | | |
| | | 14* | 2* | | |
| | | 52 | 14 | | |
| | | 7* | 1* | | |
| | | 27 | 8 | | |
| | | 14* | 1* | | |
| | | 45 | 16 | | |
| | | 8* | 0* | | |
| | | 22 | 10 | | |
| | | 14* | 3* | | |
| | | 39 | 14 | | |
| | | 190 | 60 | | |

CROSS SECTIONS - S.R. 158
STA. 305+50.00 TO STA. 307+00.00

FAI-158-07.25

* - NOT CUT AND FILL QUANTITIES FOR LEGEND SEE SHEET 55

59
131

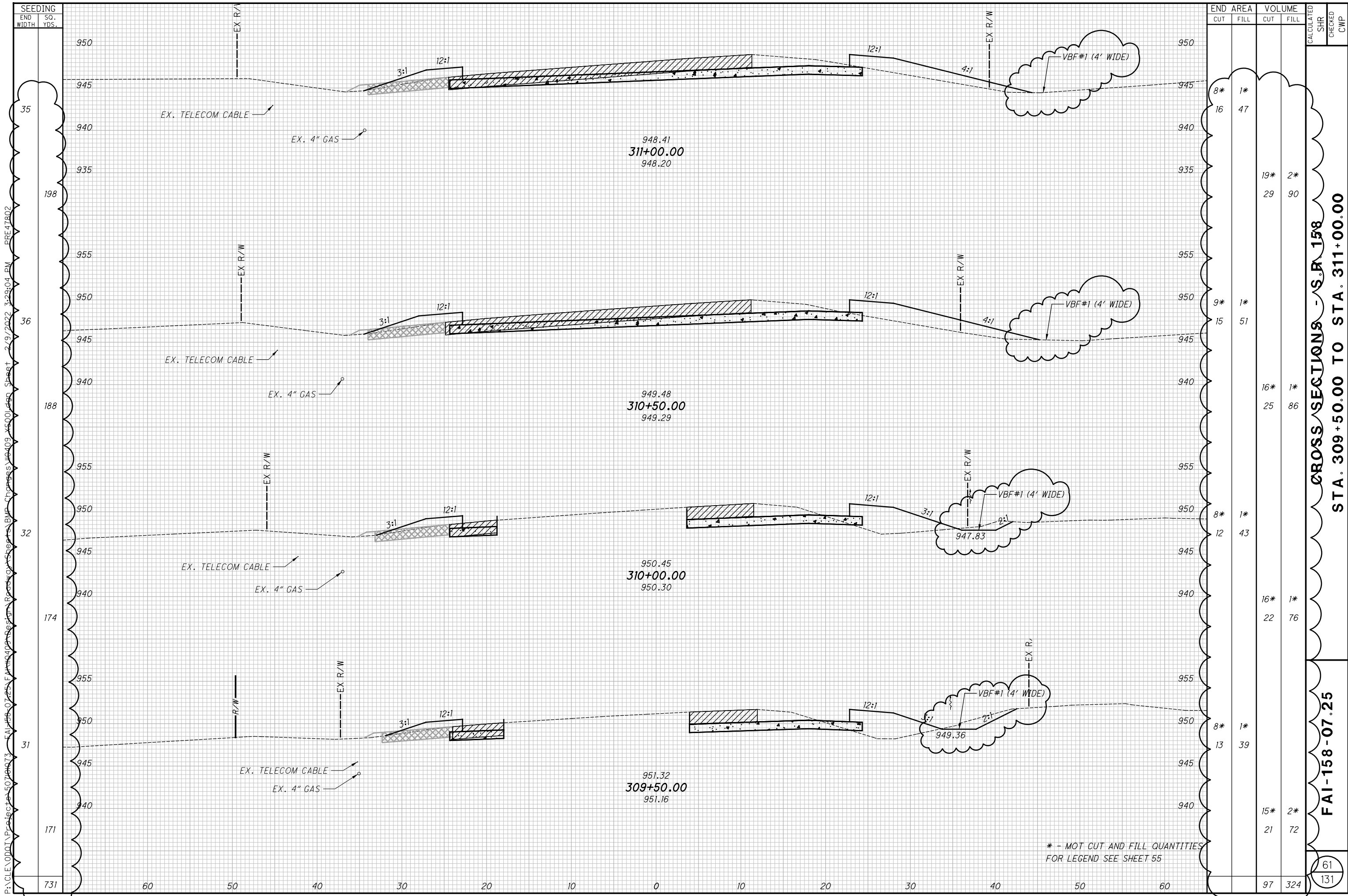


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FAI-158-07.25
CROSS SECTIONS - S.R. 158
STA. 307+50.00 TO STA. 309+00.00

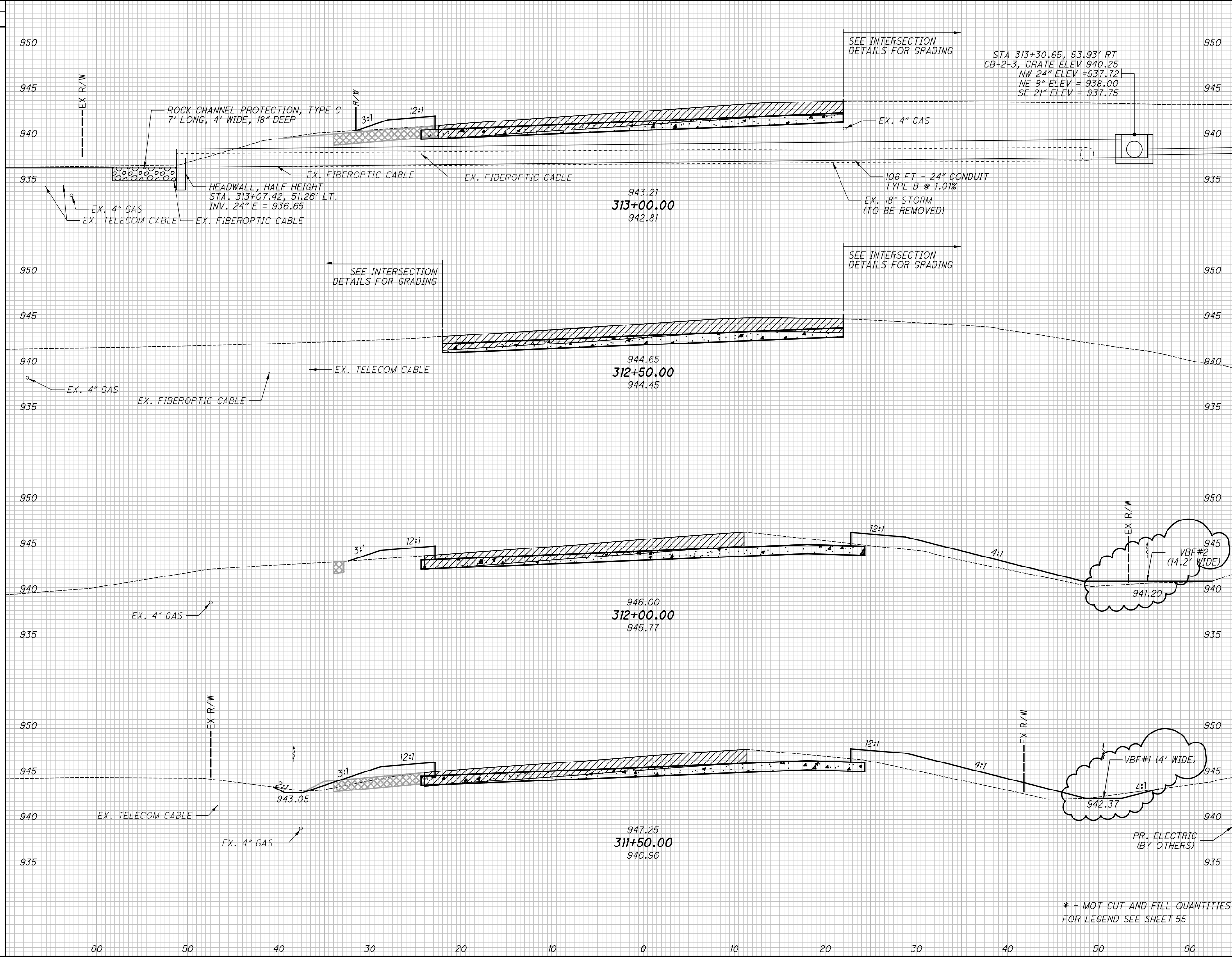
* - NOT CUT AND FILL QUANTITIES FOR LEGEND SEE SHEET 55

60
131



P:\ACLE\DOT\Projects\507\07013 - FAI-158-07.25 - FAI-158-07.25 - Cross Sections - BMP Changes\0409 - 5001.dwg Sheet 2/9/2022 3:29:04 PM PRE-47802

SEEDING
END WIDTH SO. YDS.
21
160
0
225
51
292
54
248
925



| END AREA | | VOLUME | | CALCULATED SHR | CHECKED CWP |
|----------|------|--------|------|----------------|-------------|
| CUT | FILL | CUT | FILL | | |
| 16* | 0* | 49 | 29 | | |
| 28* | 0* | 79 | 58 | | |
| 37 | 34 | | | | |
| 15* | 0* | 57 | 67 | | |
| 1* | 0* | | | | |
| 1* | 1* | 58 | 84 | | |
| 12* | 1* | 39 | 52 | | |
| 12* | 2* | 50 | 91 | | |
| | | 244 | 300 | | |

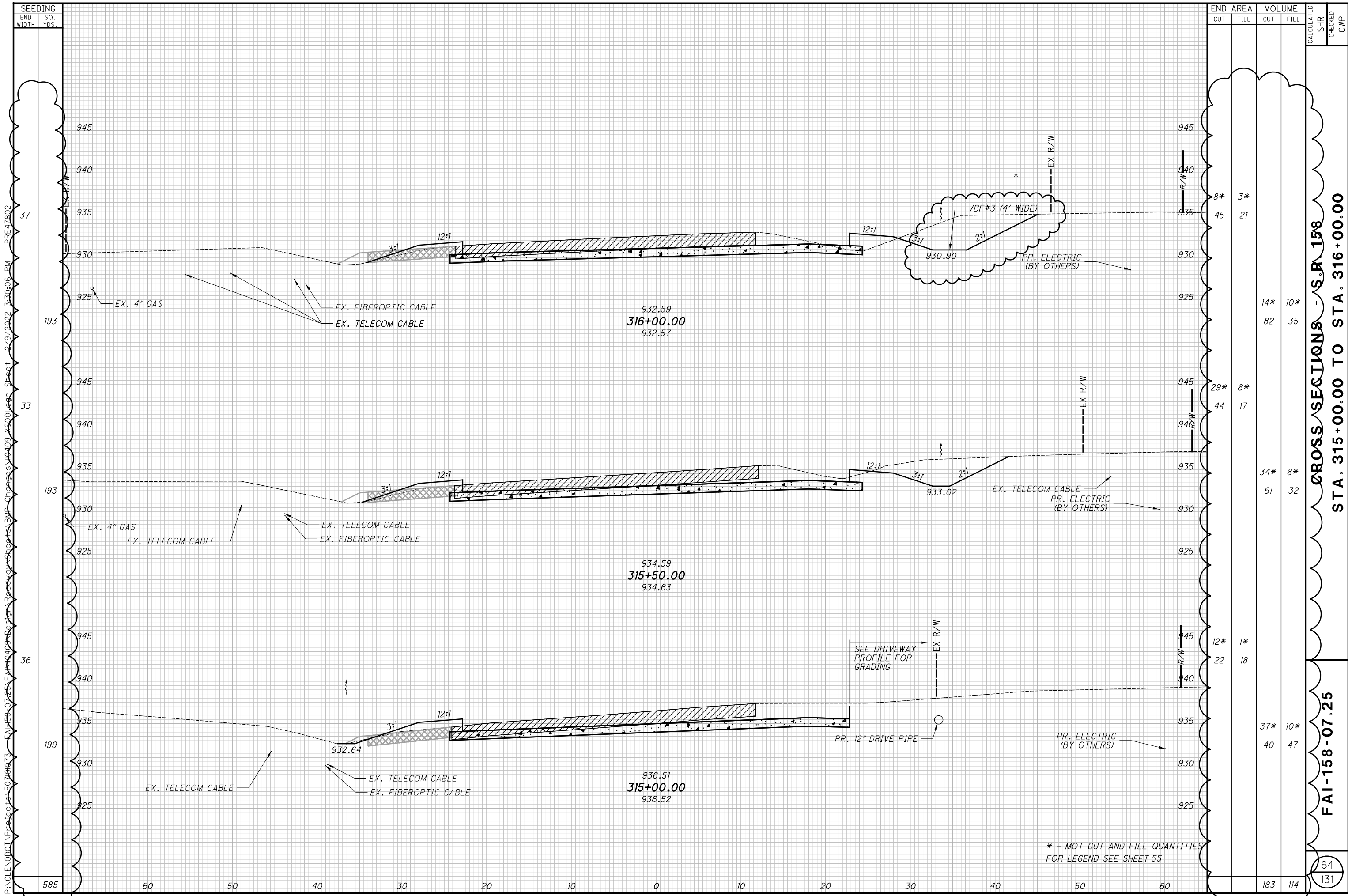
* - NOT CUT AND FILL QUANTITIES FOR LEGEND SEE SHEET 55

CROSS SECTIONS - S.R. 158
STA. 311+50.00 TO STA. 313+00.00

FAI-158-07.25

62
131

P:\CLE\DOT\Projects\507101073 - FAI-158-07.25\FAI\0409\Design\Roadway\Sheets\BMP_Changes\10409_X5000.dgn Sheet 2/9/2022 4:37:20 PM PRE47802



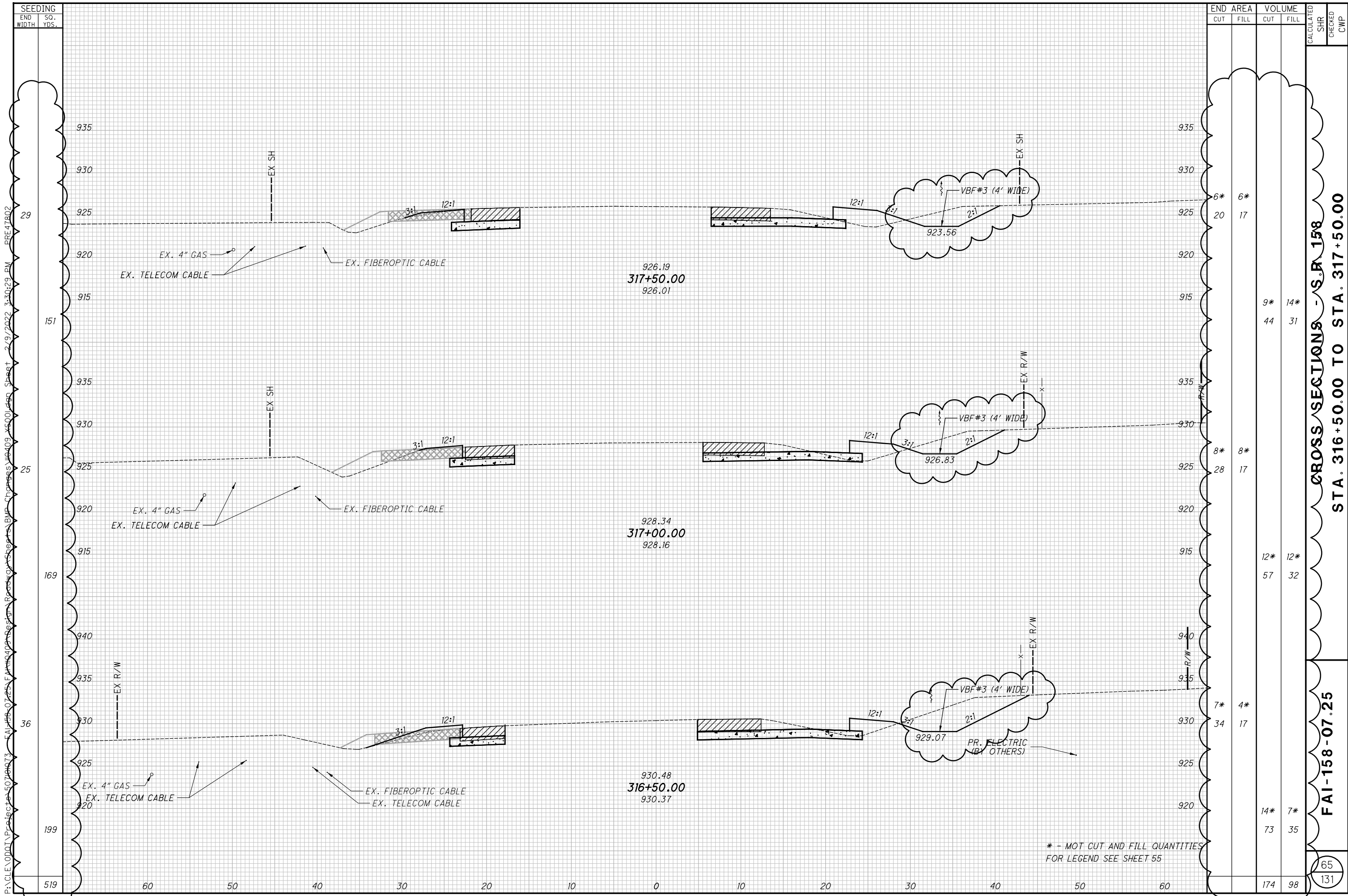
| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |
| 585 | |
| 60 | |
| 50 | |
| 40 | |
| 30 | |
| 20 | |
| 10 | |
| 0 | |
| 10 | |
| 20 | |
| 30 | |
| 40 | |
| 50 | |
| 60 | |

| END AREA | | VOLUME | | CALCULATED SHR | CHECKED CWP |
|----------|------|--------|------|----------------|-------------|
| CUT | FILL | CUT | FILL | | |
| 8* | 3* | 45 | 21 | | |
| 14* | 10* | 82 | 35 | | |
| 29* | 8* | 44 | 17 | | |
| 34* | 8* | 61 | 32 | | |
| 12* | 1* | 22 | 18 | | |
| 37* | 10* | 40 | 47 | | |
| | | 183 | 114 | | |

FAI-158-07.25
CROSS SECTIONS - S.R. 158
STA. 315+00.00 TO STA. 316+00.00

* - NOT CUT AND FILL QUANTITIES FOR LEGEND SEE SHEET 55

P:\ACLE\DOT\Projects\5076013 - FAI-158-07.25 - FAI-158-07.25 - Roadway Signs BMP Changes\0409 - 5001.dwg Sheet 2/9/2022 3:30:06 PM PRE 47802

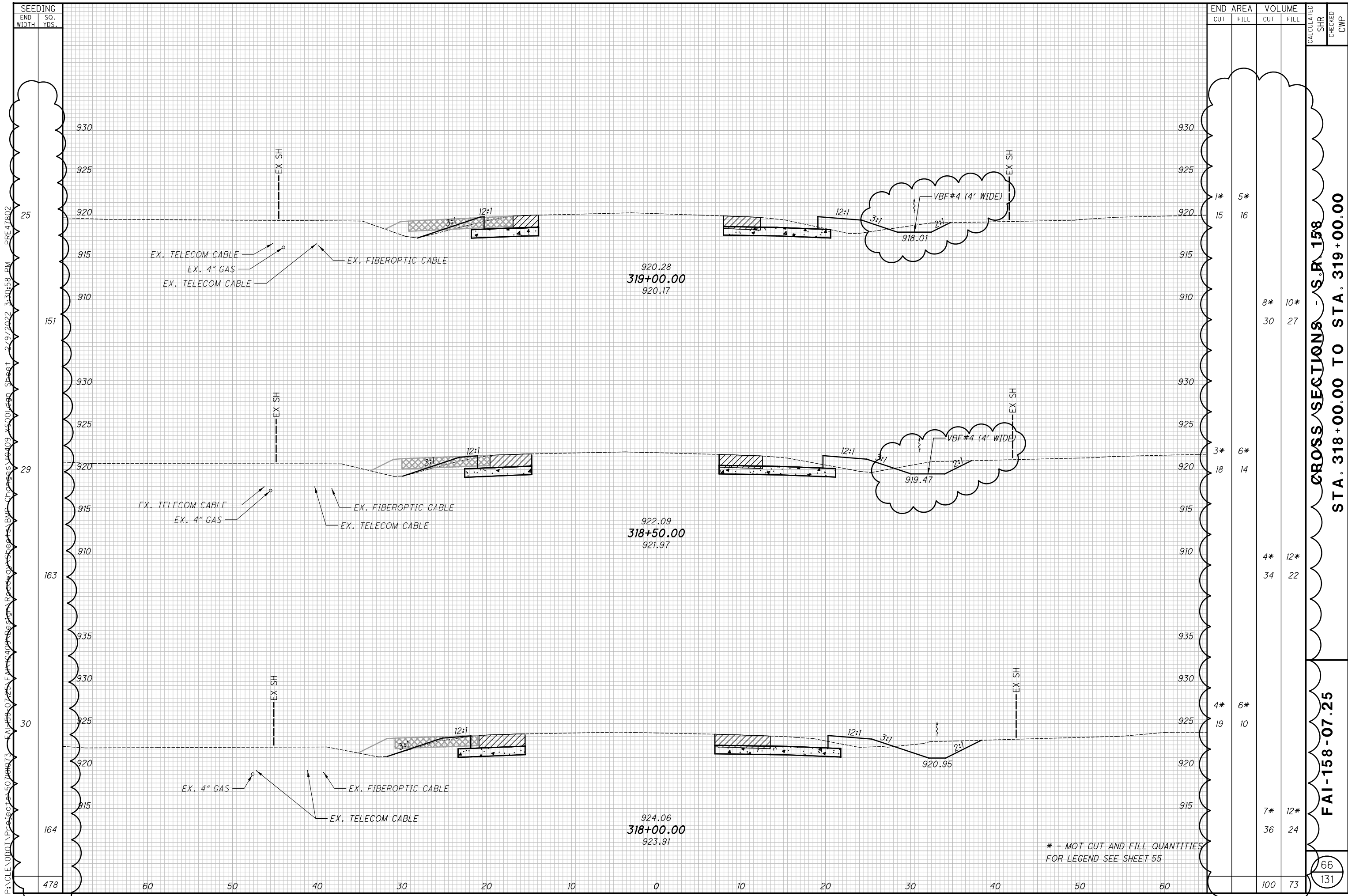


| SEEDING | |
|-----------|----------|
| END WIDTH | SO. YDS. |
| 29 | |
| 151 | |
| 25 | |
| 169 | |
| 36 | |
| 199 | |
| 519 | |

| END AREA | | VOLUME | | CALCULATED SHR | CHECKED CWP |
|----------|------|--------|------|----------------|-------------|
| CUT | FILL | CUT | FILL | | |
| 6* | 6* | 20 | 17 | | |
| | | 9* | 14* | | |
| | | 44 | 31 | | |
| 8* | 8* | 28 | 17 | | |
| | | 12* | 12* | | |
| | | 57 | 32 | | |
| 7* | 4* | 34 | 17 | | |
| | | 14* | 7* | | |
| | | 73 | 35 | | |
| | | 174 | 98 | | |

FAI-158-07.25
CROSS SECTIONS - S.R. 158
STA. 316+50.00 TO STA. 317+50.00

* - NOT CUT AND FILL QUANTITIES FOR LEGEND SEE SHEET 55



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CROSS SECTIONS - S.R. 158
STA. 318+00.00 TO STA. 319+00.00
FAI-158-07.25

