FAIRFIELD COUNTY ENGINEER

FAI - CR55 - 3.319

HAMBURG ROAD
HOCKING TOWNSHIP
HOC-21
BRIDGE REPLACEMENT PROJECT

LOCATION MAP

LATITUDE: 39°38"37.89" LONGITUDE: -82°41'44.72"

PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

CURRENT ADT (2024)	805
DESIGN YEAR ADT (2044)	965
TRUCKS (24 HOUR B&C)	N/A
DESIGN SPEED	30 - 24 MPH
LEGAL SPEED	55 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
06 MINOR COLLECTOR RURAL

NHS PROJECT ____ NO

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NUMBERS
HORIZONTAL CURVE	07/03/23	5 - 7
VERTICAL CURVE	07/03/23	5 - 7

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES

INDEX OF SHEETS:

FEDERAL PROJECT NUMBER

N/A

RAILROAD INVOLVEMENT

N/A

PROJECT DESCRIPTION

REPLACEMENT OF EXISTING BRIDGE FAI-CR55-3.319, HAMBURG ROAD (C.R. 55) OVER MUDDY PRAIRIE RUN, INCLUDING IMPROVEMENT AND REPLACEMENT OF APPROXIMATELY 0.25 MILES OF APPROACH ON HAMBURG ROAD.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	2.35 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.25 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	2.60 ACRES

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

ENGINEER'S SEAL
ROADWAY
STATE OF OHIO · CHAD S RUNDLE · E-67475 · REGISTERED PROFESSIONAL ENGINEER
Digitally signed by Chad Rundle
Date: 2025.08.22 15:35:18-04'00'

ENGINEER'S SEAL
BRIDGE
STATE OF OHIO · MATTHEW J. LAWLER · 60508 · REGISTERED PROFESSIONAL ENGINEER
Digitally signed by Matt Lawler
Date: 2025.08.22 09:53:12-04'00'

STANDARD CONSTRUCTION DRAWINGS

BP-1.1	7/28/00	TC-41.20	10/18/13
BP-3.1	1/19/24	TC-42.20	10/18/13
BP-4.1	7/19/13	TC-52.10	10/18/13
		TC-52.20	1/15/21
DM-1.1	7/17/20	TC-61.30	7/19/24
DM-4.4	1/15/16		
MGS-2.1	1/19/18		
MGS-4.2	7/19/13		
MGS-6.1	1/19/18		
RM-1.1	1/20/23		
MT-101.60	4/21/23		
MT-105.10	1/17/20		

SUPPLEMENTAL SPECIFICATIONS	
832	7/19/24

SPECIAL PROVISIONS
ASBESTOS SURVEY REPORT 10/18/2022

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.

APPROVED _____
DATE 1-13-26 FAIRFIELD COUNTY ENGINEER

WE THE COMMISSIONERS OF FAIRFIELD COUNTY IN FORMAL SESSION, HEREBY APPROVE THESE PLANS.

DATE _____ COMMISSIONER _____
DATE _____ COMMISSIONER _____
DATE _____ COMMISSIONER _____

TITLE SHEET

DESIGN AGENCY
DLZ

DESIGNER EMH
REVIEWER CSR 02/10/25
PROJECT ID 113793
SHEET P.1 TOTAL 49

FAI-CR55-3.319

MODEL: Sheet_SunFt PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:58:37 AM USER: ehimes
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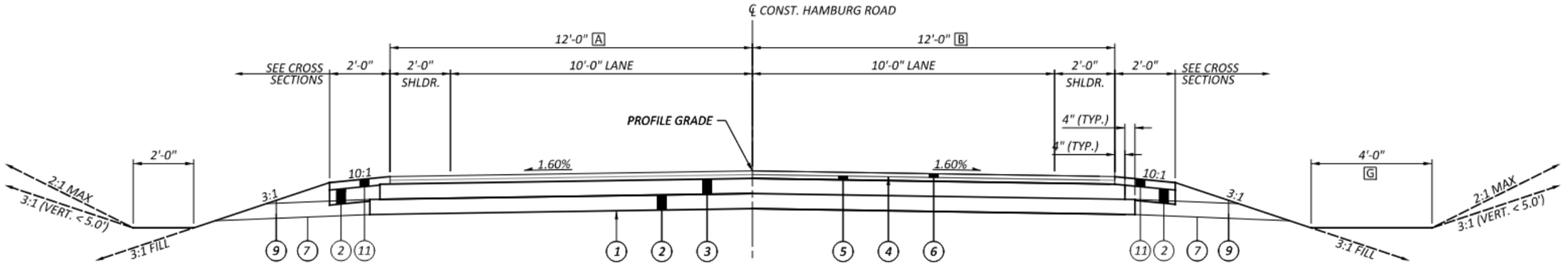
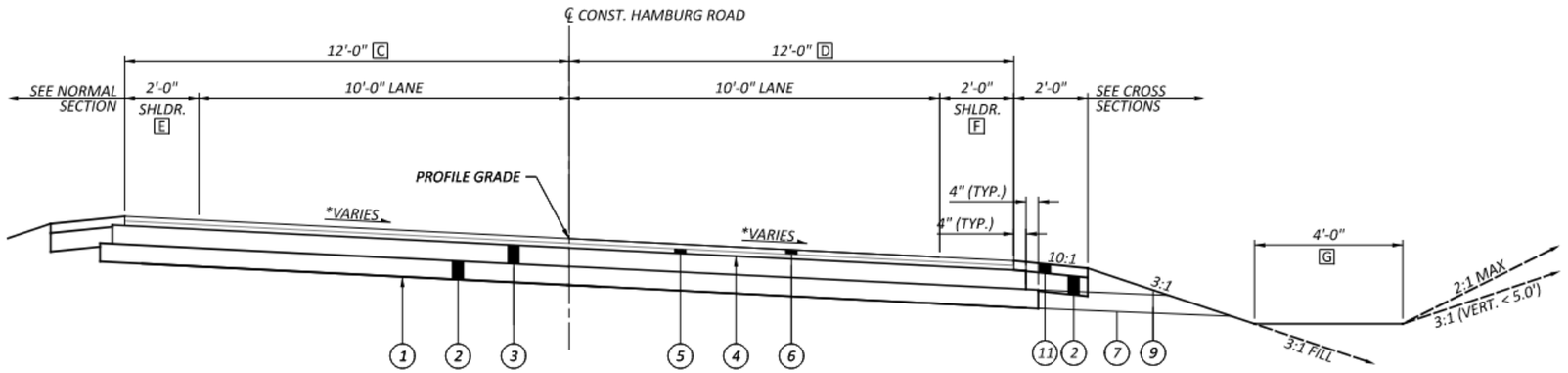


NORMAL SECTION

STA. 168+50.00 TO STA. 169+97.88

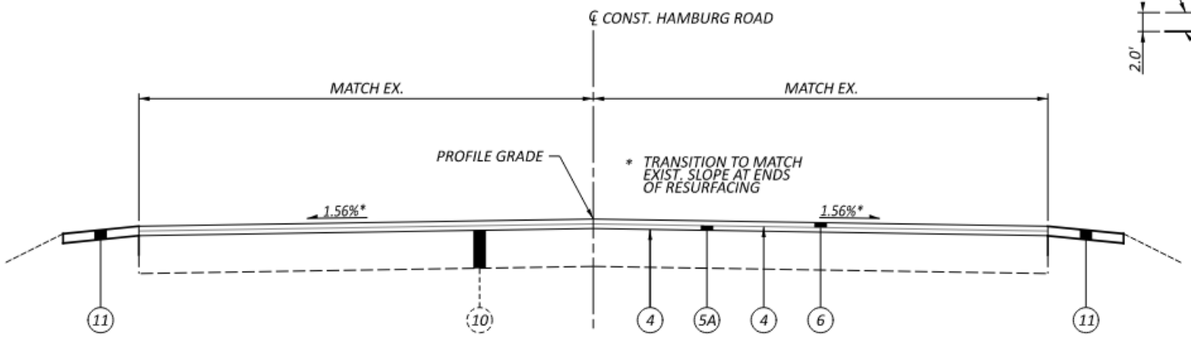


*REFER TO SUPERELEVATION TABLE FOR DETAILS

SUPERELEVATED SECTION

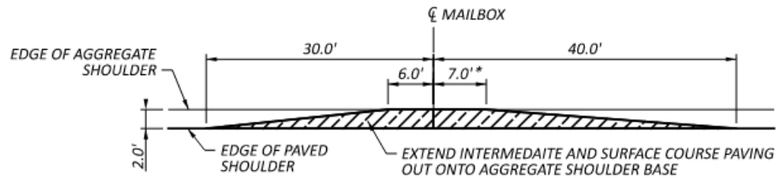
STA. 169+97.88 TO STA. 179+00.00

- A VARIES FROM 11.3' AT STA 168+50.00 TO 12.0' AT STA 169+00.00
- B VARIES FROM 10.7' AT STA 168+50.00 TO 12.0' AT STA 169+00.00
- C VARIES FROM 12.0' AT STA 179+00.00 TO 12.4' AT STA 179+50.00
- D VARIES FROM 12.0' AT STA 179+00.00 TO 10.2' AT STA 179+50.00
- E VARIES FROM 2.0' AT STA 174+65.10 TO 4.0' AT STA 174+90.10
  VARIES FROM 4.0' AT STA 175+99.98 TO 2.0' AT STA 176+24.98
- F VARIES FROM 2.0' AT STA 174+65.50 TO 4.0' AT STA 174+89.50
  VARIES FROM 4.0' AT STA 176+03.80 TO 2.0' AT STA 176+28.90
- G 2.0' FROM STA 175+71.42 TO STA 179+00.00



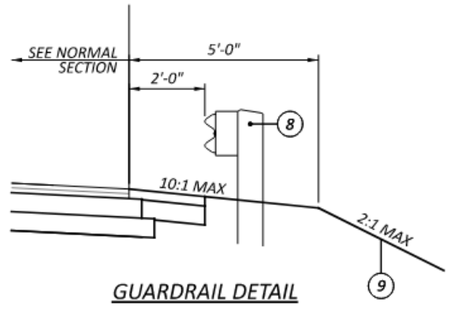
TYPICAL RESURFACING SECTION

STA. 167+50.00 TO STA. 168+50.00
STA. 179+00.00 TO STA 179+50.00



*NOTE : ADD 3.0' FOR EACH ADDITIONAL MALIBOX

MAILBOX APRON DETAIL



GUARDRAIL DETAIL

LEGEND

1. ITEM 204 - SUBGRADE COMPACTION
2. ITEM 304 - 6" AGGREGATE BASE
3. ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
4. ITEM 407 - NON-TRACKING TACK COAT
5. ITEM 441 - 1½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
5A. ITEM 441 - VARIABLE ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)
6. ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
7. ITEM 605 - AGGREGATE DRAINS
8. ITEM 606 - GUARDRAIL, TYPE MGS
9. ITEM 659 - SEEDING AND MULCHING
10. EXISTING ROADWAY MATERIALS
11. ITEM 411 - 3" STABILIZED CRUSHED AGGREGATE, AS PER PLAN

TYPICAL SECTIONS

DESIGN AGENCY
DLZ

DESIGNER EMH
REVIEWER CSR 02/10/25
PROJECT ID 113793
SHEET P.2 TOTAL 49

FAI-CR55-3.319

MODEL: SH1 Typ Sections PAPERSIZE: 17x11 (In.) DATE: 8/21/2025 TIME: 11:58:40 AM USER: ehimes
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UTILITIES

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

CHARTER COMMUNICATIONS
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
CONTACT: ANTHONY ADAMS
OFFICE: 614-827-7971
CELL: 614-496-3651
ANTHONY.ADAMS@CHARTER.COM
DL-MOH-CONTRUCTION-FRELO-TEAM@CHARTER.COM

FAIRFIELD COUNTY ENGINEERS
3026 WEST FAIR AVE.
LANCASTER, OHIO 43130
CONTACT: BILL MARAVY
OFFICE: 740-652-2374
BILL.MARAVY@FAIRFIELDCOUNTYOHIO.GOV

FRONTIER
241 SOUTH NELSON AVE.
WILMINGTON, OHIO 45177

CONTACT: TRAVIS BRANNON
CELL: 740-835-6825
TRAVIS.L.BRANNON@FTR.COM

CONTACT: ROBERT LATHAM
CELL: 937-708-9671
ROB.LATHAM@FTR.COM

POINT BROADBAND, LLC
145 COLUMBUS ROAD, SUITE 101
ATHENS, OHIO 43701
CONTACT: MARK GALLOWAY
CELL: 740-935-9506
MARK.GALLOWAY@POINT-BROADBAND.COM

SOUTH CENTRAL POWER
720 MILL PARK DR.
LANCASTER, OHIO 43130

CONTACT: CASEY VALENTINE
CELL: 740-823-1334
VALENTINE@SOUTHCENTRALPOWER.COM

CONTACT : AARON GESSNER
FIELD ENGINEER II
PHONE : 740-583-1068
GASSNER@SOUTHCENTRALPOWER.COM

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.

ROUNDING

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

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

ENGINEER DEFINED

DULY AUTHORIZED AGENT OF THE FAIRFIELD COUNTY ENGINEER ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY FOR PURPOSES OF ENGINEERING AND ADMINISTRATION OF THE CONTRACT.

CONTRACTOR DEFINED

THE INDIVIDUAL, FIRM, OR CORPORATION CONTRACTING WITH THE FAIRFIELD COUNTY ENGINEER FOR PERFORMANCE OF PRESCRIBED WORK, ACTING DIRECTLY OR THROUGH A DULY AUTHORIZED REPRESENTATIVE AND QUALIFIED UNDER THE PROVISIONS OF 5525.02 TO 5525.09, ORC, AND ANY AMENDMENTS THERETO.

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.

MATERIAL TESTING

THE COUNTY ENGINEER RESERVES THE RIGHT TO ORDER TESTING OF ALL MATERIALS USED.

EROSION CONTROL

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING PERIMETER FILTER FABRIC FENCE ALONG BOTH SIDES OF THE ROADWAY DURING CONSTRUCTION. CONTRACTOR SHALL ADHERE TO ODOT SUPPLEMENTAL SPECIFICATION 832 AND ODOT SCD DM-4.4 FOR PROPER INSTALLATION PROCEDURES.

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

ITEM 690, EROSION CONTROL (PERIMETER FILTER FABRIC FENCE)	2672 LF

ITEM 201 - CLEARING AND GRUBBING

ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING, EXCEPT THOSE OTHERWISE DESIGNATED BY THE ENGINEER. LANDOWNERS SHALL BE ALLOWED TO SALVAGE THE WOOD FROM TREES BEING REMOVED FROM THEIR PROPERTY. TREES DESIGNATED AS BEING SALVAGED FOR WOOD SHALL BE CUT ABOVE THE BASE AND PLACED OUTSIDE OF THE RIGHT-OF-WAY.

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.

INSTREAM WORK

INSTREAM WORK WILL BE LIMITED TO WHERE PRACTICABLE AND ONLY CLEAN, NON-ERODIBLE MATERIAL WILL BE USED FOR CAUSEWAYS, COFFERDAMS, OR OTHER EQUIPMENT ACCESS PADS. THIS TEMPORARY PLACED MATERIAL WILL BE REMOVED AND THE STREAM BOTTOM RESTORED TO NEAR NATURAL CONDITIONS WHEN THE WORK IS COMPLETED.

STREAM CHANNEL EXCAVATION

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS, SUCH AS FOUNDATION, PIER, OR ABUTMENT EXCAVATION, CHANNEL CLEANOUT, EXCAVATION FOR ROCK CHANNEL PROTECTION, AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

ITEM 204 - UNSUITABLE FOUNDATION SOILS

IF UNSUITABLE FOUNDATION SOILS ARE ENCOUNTERED IN THE AREAS OF THE PROPOSED ROADBED OR STRUCTURES. THEY SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL. THE LOCATIONS AND DIMENSIONS WILL BE AS DETERMINED BY THE ENGINEER.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY, TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 204, EXCAVATION OF SUBGRADE	100 CY
ITEM 204, GRANULAR MATERIAL, TYPE F	100 CY
ITEM 204, GEOTEXTILE FABRIC	200 SY

ITEM 204 - PROOF ROLLING, AS PER PLAN

AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN PROVIDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR MAY UTILIZE A FULLY LOADED DUMP TRUCK, APPROVED BY THE ENGINEER, IN LIEU OF THE PROOF ROLLER REQUIREMENTS LISTED IN SPECIFICATION 204.06 A-G. ALL OTHER REQUIREMENTS PER 204.06 SHALL STILL APPLY.

ITEM 204, PROOF ROLLING	8 HOUR

ITEM 407 - NON-TRACKING TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. FOR ESTIMATING PURPOSES ONLY, THE PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF:

ITEM 407, NON-TRACKING TACK COAT	0.65 GAL/SY

ITEM 411 - STABILIZED CRUSHED AGGREGATE, AS PER PLAN

THE CRUSHED MATERIAL PROVIDED FOR THIS ITEM SHALL BE CRUSHED LIMESTONE.

ITEM 441 - ASPHALT CONCRETE

THE HOT MIX ASPHALT MIXTURE SHALL BE COMPOSED OF AGGREGATE, ASPHALT BINDER, AND MODIFIERS (WHERE SPECIFIED) MEETING OHIO DEPARTMENT OF TRANSPORTATION (ODOT) REQUIREMENTS. PRIOR TO PRODUCING HOT MIX ASPHALT FOR THIS CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, A JOB MIX FORMULA (JMF) OR BITUMINOUS CONCRETE DATA SHEET, 48 HOURS PRIOR TO PLACEMENT OF ANY ASPHALT.

THE JMF SHALL INCLUDE THE MIX TYPE PROPOSED FOR USE, AGGREGATE TYPE AND GRADATION, PRECENTAGE OF ASPHALT BINDER BY WEIGHT OF MIXTURE, GRADE OF ASPHALT BINDER, DESCRIPTION AND SOURCE MODIFIER (IF APPLICABLE), AND UNIT WEIGHT OF THE MIXTURE. THE JMF, OR DATA SHEET, SHALL HAVE PREVIOUSLY BEEN APPROVED FOR USE ON ODOT WORK.

ITEM 614 - MAINTAINING TRAFFIC

NOTICE OF CLOSURE SIGNS, SHALL BE ERECTED BY THE ENGINEER IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE CONTRACTOR SHALL GIVE AT LEAST A TWO WEEK NOTICE TO THE ENGINEER IN ORDER TO ERECT THESE SIGNS.

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN STANDARD 48" X 30" "ROAD CLOSED" SIGNS, SIGN SUPPORTS, BARRICADES, GATES, AND LIGHTS, AS DETAILED IN STANDARD CONSTRUCTION DRAWINGS MT-101.60 DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

ACCESS TO LOCAL PROPERTY OWNERS SHALL BE MAINTAINED AT ALL TIMES.

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 INCUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 659 - SEEDING AND MULCHING

THE FOLLOWING QUANTITIES SHALL BE USED AS DIRECTED BY THE ENGINEER AND ARE CARRIED TO THE GENERAL SUMMARY TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEM 653, TOPSOIL	702 CY
ITEM 659, SOIL ANALYSIS TEST	2 EACH
ITEM 659, REPAIR SEEDING AND MULCHING	316 SY
ITEM 659, COMMERCIAL FERTILIZER	0.88 TON
ITEM 659, LIME	1.31 ACRE
ITEM 659, WATER	36 MGAL

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

ITEM 203 - EMBANKMENT, AS PER PLAN

PLACE AND COMPACT EMBANKMENT MATERIAL IN 6 INCH LIFTS FOR THE CONSTRUCTION OF THE APPROACH EMBANKMENT BETWEEN STATIONS 174+00 AND 176+84

LIMIT ON IN-WATER WORK

THERE SHALL BE NO IN-WATER WORK TAKING PLACE BETWEEN MARCH 12TH AND JUNE 30TH BELOW THE ORDINARY HIGH WATER MARK IN MUDDY PRAIRIES RUN.

TREE CUTTING

TREE CUTTING WITHIN THE PROJECT LIMITS CAN ONLY OCCUR FROM OCTOBER 1 THROUGH MARCH 31, CONSERVING TREES WITH LOOSE, SHAGGY BARK AND/OR CREVICES, OR CAVITIES, AS WELL AS TREES WITH DBH $\geq$ 20 IF POSSIBLE.

GENERAL NOTES

DESIGN AGENCY
DLZ

DESIGNER
EMH
REVIEWER
CSR 02/10/25
PROJECT ID
113793
SHEET P.3 TOTAL 49

FAI-CR55-3.319

MODEL: Gen Notes SH1 PAPERSIZE: 17x11 (P.) DATE: 8/21/2025 TIME: 11:58:41 AM USER: ehlmes
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FARM DRAINS

PROVIDE UNOBSTRUCTED OUTLETS TO ALL FARM DRAINS ENCOUNTERED DURING CONSTRUCTION. REPLACE EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY WITHIN THE CONSTRUCTION LIMITS WITH ITEM 611, CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

OUTLET EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES INTO THE ROADWAY.

DITCH USING ITEM 611, TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. INTERCEPT LATERAL FIELD TILES WHICH CROSS THE ROADWAY WITH ITEM 611, TYPE E CONDUIT, AND CARRY IN A LONGITUDINAL DIRECTION TO AN
ADEQUATE OUTLET OR ROADWAY CROSSING.

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

PROVIDE EROSION CONTROL PADS AT THE OUTLET END OF ALL FARM DRAINS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES IS INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

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

611 6" CONDUIT, TYPE B 20 FT.
611 6" CONDUIT, TYPE E 20 FT.
611 6" CONDUIT, TYPE F 20 FT.
601 ROCK CHANNEL PROTECTION TYPE C WITH FILTER 2 CU. YD.

OEPA NOTIFICATION OF DEMOLITION AND RENOVATION

AN ASBESTOS SURVEY FOR THE FAI-CR55-3.28 BRIDGE SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. A COPY OF THE ASBESTOS SURVEY REPORT FOR THE BRIDGE HAS BEEN INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT. THE ASBESTOS SURVEY REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED BY THE ASBESTOS HAZARD EVALUATION SPECIALIST, HAS BEEN INCLUDED AT THE END OF THE ASBESTOS SURVEY REPORT. THE CONTRACTOR SHALL COMPLETE THE NECESSARY SECTIONS OF THE FORM AND SUBMIT IT WITH A COPY OF THE ASBESTOS SURVEY REPORT TO:

ASBESTOS PROGRAM
OHIO EPA, DAPC
PO BOX 1049
COLUMBUS OH 43216-1049

AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION WORK. NOTIFICATION CAN BE MADE EITHER BY HARD COPY OR ELECTRONICALLY. ADDITIONAL INFORMATION CAN BE FOUND HERE: http://epa.ohio.gov/dapc/atu/asbestos.aspx#179575188-project-notification

BASIS FOR PAYMENT: THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENTS FOR THIS WORK SHALL BE INCIDENTAL TO THE ITEM 202 STRUCTURE REMOVAL ITEM(S) IN THE PLAN.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE (SOUTH ZONE)
COMBINED SCALE FACTOR: N/A
ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

ITEM 614 MAINTAINING TRAFFIC

NOTICE OF CLOSURE SIGNS SHALL BE ERECTED BY THE ENGINEER IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE CONTRACTOR SHALL GIVE AT LEAST A TWO WEEK NOTICE TO THE ENGINEER IN ORDER TO ERECT THESE SIGNS.

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN STANDARD 48" X 30" "ROAD CLOSED" SIGNS, SIGN SUPPORTS, BARRICADES, GATES, AND LIGHTS AS DETAILED IN STANDARD CONSTRUCTION DRAWINGS MT-101.60 DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

ACCESS TO LOCAL PROPERTY OWNERS SHALL BE MAINTAINED AT ALL TIMES.

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 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLANS.

SURVEY CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION	STATION	OFFSET
SV1	599669.981	1916988.382	896.60	IRON PIN SET	176+36.42	13.96' RT
SV2	599723.785	1916771.817	895.34	IRON PIN SET	174+15.13	17.73' LT
SV3	599696.032	1916534.11	919.23	IRON PIN SET	171+79.77	23.21' LT
SV4	599554.675	1917349.245	937.43	IRON PIN SET	180+13.54	19.15' RT
SV5	599561.739	1917556.13	946.78	MAGNETIC NAIL SET	182+15.63	18.05' RT

SHEET NUMBER									PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	7	8												
														ROADWAY	
										201	11000	LS		CLEARING AND GRUBBING	
		2,625								202	23000	2,625	SY	PAVEMENT REMOVED	
		80								202	35100	80	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
		700								202	38000	700	FT	GUARDRAIL REMOVED	
		3								202	42000	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
		2								202	42040	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
		317								202	75000	317	FT	FENCE REMOVED	
		5,616								203	10000	5,616	CY	EXCAVATION	
		1,564								203	20000	1,564	CY	EMBANKMENT	
		3,104								204	10000	3,104	SY	SUBGRADE COMPACTION	
100										204	13000	100	CY	EXCAVATION OF SUBGRADE	
100										204	30050	100	CY	GRANULAR MATERIAL, TYPE F	
8										204	45000	8	HOUR	PROOF ROLLING	
200										204	50000	200	SY	GEOTEXTILE FABRIC	
		525								606	15050	525	FT	GUARDRAIL, TYPE MGS	
		3								606	25550	3	EACH	ANCHOR ASSEMBLY, MGS TYPE A	
		5								606	26550	5	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
		4								606	35002	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
														EROSION CONTROL	
2										659	00100	2	EACH	SOIL ANALYSIS TEST	
		702								659	00300	702	CY	TOPSOIL	
		6,324								659	10000	6,324	SY	SEEDING AND MULCHING	
		316								659	14000	316	SY	REPAIR SEEDING AND MULCHING	
		0.88								659	20000	0.88	TON	COMMERCIAL FERTILIZER	
		1.31								659	31000	1.31	ACRE	LIME	
		36								659	35000	36	MGAL	WATER	
		287								670	00720	287	SY	DITCH EROSION PROTECTION MAT, TYPE B	
										832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
										832	30000	26,000	EACH	EROSION CONTROL	
		187								836	10000	187	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	
		33								836	10030	33	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3	
														DRAINAGE	
		0.66								511	46610	0.66	CY	CLASS QC1 CONCRETE, HEADWALL	
	2	3								601	32204	5	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
			189							605	31100	189	FT	AGGREGATE DRAINS	
	20									611	00900	20	FT	6" CONDUIT, TYPE B	
	20									611	01400	20	FT	6" CONDUIT, TYPE E	
	20									611	01500	20	FT	6" CONDUIT, TYPE F	
		89								611	04900	89	FT	12" CONDUIT, TYPE D	
		130								611	07400	130	FT	18" CONDUIT, TYPE B	
		1								611	98450	1	EACH	CATCH BASIN, NO. 2-2A	
														PAVEMENT	
		365								254	01000	365	SY	PAVEMENT PLANING, ASPHALT CONCRETE	
		428								301	56000	428	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
			575							304	20000	575	CY	AGGREGATE BASE	
			284							407	20000	284	GAL	NON-TRACKING TACK COAT	
			41							411	10000	41	CY	STABILIZED CRUSHED AGGREGATE	
			117							441	70000	117	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
			122							441	70300	122	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	

GENERAL SUMMARY

DESIGN AGENCY

DLZ

DESIGNER SDB

REVIEWER CAM 03/13/25

PROJECT ID 113793

SHEET P.5 | TOTAL 49

FAI-CR55-3.319

MODEL: GEN_SUM_SH1 PAPERSIZE: 17x11 (In.) DATE: 8/21/2025 TIME: 11:56:45 AM USER: mhines
X:\Projects\2023\2321\120200 Fairfield Co Hamlcu\120200\400=Engineering\Roadway\Sheets\120200_GS001.dgn

SHEET NUMBER									PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	38														
														TRAFFIC CONTROL	
0.45										642	00100	0.45	MILE	EDGE LINE, 4", TYPE 1	
0.23										642	00300	0.23	MILE	CENTER LINE, TYPE 1	
														STRUCTURE OVER 20 FOOT SPAN (SFN 2337258)	
										202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN	
	122									202	23500	122	SY	WEARING COURSE REMOVED	
	628									203	35111	628	CY	GRANULAR MATERIAL, TYPE B, AS PER PLAN	36
	237									204	51000	237	SY	GEOGRID	
										503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
	178									503	21100	178	CY	UNCLASSIFIED EXCAVATION	
										505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
	630									507	00100	630	FT	STEEL PILES HP10X42, FURNISHED	
	570									507	92200	570	FT	PREBORED HOLES	
	26,517									509	10000	26,517	LB	EPOXY COATED STEEL REINFORCEMENT	
	87									511	34444	87	CY	CLASS QC2 CONCRETE, BRIDGE DECK	
	68									511	43510	68	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	
	91									512	10100	91	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
	82,900									513	10221	82,900	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN(W30x124, 71'-0" length)	36
	1,260									513	20000	1,260	EACH	WELDED STUD SHEAR CONNECTORS	
	52									516	13200	52	SF	½" PREFORMED EXPANSION JOINT FILLER	
	54									516	13600	54	SF	1" PREFORMED EXPANSION JOINT FILLER	
	42									516	13900	42	SF	2" PREFORMED EXPANSION JOINT FILLER	
	85									516	14014	85	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
	10									516	44001	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN(Load Plate 11.5"x14"x1.50", Neoprene 10.5"x13"x1.69")	42
	150									517	70000	150	FT	RAILING (TWIN STEEL TUBE)	
	58									518	21200	58	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
	167									SPECIAL	51822300	167	FT	STEEL DRIP STRIP	
	96									518	40000	96	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
	54									518	40010	54	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
	124									526	15000	124	SY	REINFORCED CONCRETE APPROACH SLABS (T=13")	
	56									526	90010	56	FT	TYPE A INSTALLATION	
	193									601	32204	193	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	
	1									625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM	
														INCIDENTALS	
										614	11000	LS		**MAINTAINING TRAFFIC**	
										623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

DLZ

DESIGNER SDB

REVIEWER CAM 03/13/25

PROJECT ID 113793

SHEET P.6 | TOTAL 49

FAI-CR55-3.319

MODEL: GEN_SUM_SH2 PAPERSIZE: 17x11 (In.) DATE: 8/21/2025 TIME: 11:56:46 AM USER: mhnes
X:\Projects\2023\2321\120200 Fairfield Co Hamlin\120200\400=Engineering\Roadway\Sheets\120200_GS001.dgn

REFERENCE NO.	STATION		SIDE	202 PAVEMENT REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 GUARDRAIL REMOVED	202 ANCHOR ASSEMBLY REMOVED, TYPE A	202 ANCHOR ASSEMBLY REMOVED, TYPE T	202 FENCE REMOVED	254 PAVEMENT PLANING, ASPHALT CONCRETE	511 CLASS QC1 CONCRETE, HEADWALL	601 ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	606 GUARDRAIL, TYPE MGS	606 ROUNDED END SECTION	606 ANCHOR ASSEMBLY, MGS TYPE A	606 ANCHOR ASSEMBLY, MGS TYPE T	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	611 12" CONDUIT, TYPE D	611 18" CONDUIT, TYPE B	611 CATCH BASIN, NO. 2-2A	670 DITCH EROSION PROTECTION MAT, TYPE B	836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 1	836 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3
	FROM/AT	TO		SY	FT	FT	EACH	EACH	FT	SY	CY	CY	FT	EACH	EACH	EACH	EACH	FT	FT	EACH	SY	SY	SY
R-1	168+50.00	175+24.61	L&R	1717																			
R-2	175+62.91	179+00.00	L&R	908																			
R-3	176+66.43	177+00.54	RT		40																		
R-4	177+39.86	177+58.55	L&R		40																		
R-5	173+41.78	176+19.18	RT			257	1																
R-6	173+58.97	175+11.81	RT						153														
R-7	174+15.12	174+67.51	LT						52														
R-8	174+16.59	175+75.32	LT			160		1															
R-9	175+77.94	176+73.58	RT						112														
R-10	175+92.87	177+57.53	LT			154	1																
R-11	176+94.44	178+32.26	RT			129	1	1															
R-12	167+50.00	168+50.00	L&R							240													
R-13	179+00.00	179+50.00	L&R							125													
G-1	173+50.00	175+11.93	RT										112.5		1		1						
G-2	174+10.43	175+12.17	LT										75	1		1	1						
G-3	175+79.00	176+42.40	LT										50	1		1	1						
G-4	175+82.00	176+19.18	RT										62.5	1		1	1						
G-5	176+35.23	177+50.00	LT										100	1	1	1							
G-6	176+78.73	178+00.00	RT										125	1	1	1							
D-1	176+32.21	176+94.44	RT								0.33	1.17							56	1			
D-2	176+77.41	176+94.44	L&R								0.33								74				
D-3	171+34.95	171+90.15	LT									0.83						57					
D-4	173+90.09	174+20.01	LT									0.83						32					
E-1	171+90.00	173+90.00	LT																		89		
E-2	170+90.00	175+35.00	RT																		198		
E-3	175+71.00	176+32.00	RT																			27	
E-4	176+76.00	177+50.00	LT																				33
E-5	176+90.00	179+00.00	RT																			93	
E-6	177+50.00	179+00.00	LT																			67	
TOTALS CARRIED TO GENERAL SUMMARY				2625	80	700	3	2	317	365	0.66	3	525	5	3	5	4	89	130	1	287	187	33

SUBSUMMARIES

SUBSUMMARY/PAVEMENT CALCULATIONS
CR 55 HAMBURG RD.

ITEM 203 EXCAVATION
PER CROSS SECTION SHEETS — TOTAL = 5616 CY

ITEM 203 EMBANKMENT
PER CROSS SECTION SHEETS — TOTAL = 1564 CY

ITEM 659 SEEDING AND MULCHING
PER CROSS SECTION SHEETS — TOTAL = 6324 SY

ITEM 659 TOPSOIL
6324 SYx111 CY/1000 SY — TOTAL = 702 CY

ITEM 659 REPAIR SEEDING AND MULCHING
6324 SYx0.05 — TOTAL = 316 SY

ITEM 659 COMMERCIAL FERTILIZER
6324 SYx1 TON/7410 SY + XX SYx9 SFx20#/1000 SFx1 TON/2000# — TOTAL = 0.88 TON

ITEM 659 LIME
6324 SYx1/4840 — TOTAL = 1.31 ACRE

ITEM 659 WATER
(6324 SY+316 SY)x0.0027 MGALx2 — TOTAL = 36 MGAL

ITEM 642 CENTER LINE (DOUBLE YELLOW)
STA. 167+50.00 TO STA. 179+50.00 1200'x1'/5280 MILE — TOTAL = 0.23 MILE

ITEM 642 EDGE LINE, 4", TYPE 1
STA. 167+50.00 TO STA. 179+50.00 1200'x1'/5280 MILEx2 — TOTAL = 0.45 MILE

SUBSUMMARY/PAVEMENT CALCULATIONS
CR 55 HAMBURG RD.

ITEM 204 SUBGRADE COMPACTION

STA. 168+50.00 TO STA. 169+00.00 (50'x23.67')x1/9	=	132 SY
STA. 169+00.00 TO STA. 174+65.10 (565.1'x24.67')x1/9	=	1549 SY
STA. 174+65.10 TO STA. 174+90.10 (25'x13.33')x1/9	=	37 SY
STA. 174+65.10 TO STA. 174+65+50 (0.4'x12.33')x1/9	=	1 SY
STA. 174+65.50 TO STA. 174+89.50 (24'x13.33')x1/9	=	36 SY
STA. 175+99.98 TO STA. 176+24.98 (25'x13.33')x1/9	=	37 SY
STA. 176+03.80 TO STA. 176+28.90 (25.1'x13.33')x1/9	=	37 SY
STA. 176+24.98 TO STA. 176+28.90 (3.92'x12.33')x1/9	=	5 SY
STA. 176+28.90 TO STA. 178+50.00 (221.1'x24.67')x1/9	=	606 SY
STA. 178+50.00 TO STA. 179+00.00 (50'x23.82')x1/9	=	132 SY

DRIVES

STA. 170+30.47 TO STA. 170+92.00 (1797.5 SF))x1/9	=	200 SY
STA. 171+36.00 TO STA. 171+90.14 (798.0 SF))x1/9	=	89 SY
STA. 176+32.21 TO STA. 176+79.06 (833.2 SF))x1/9	=	93 SY
STA. 176+42.37 TO STA. 176+79.69 (1347.1 SF))x1/9	=	150 SY
	TOTAL =	3104 SY

SUBSUMMARY/PAVEMENT CALCULATIONS
CR 55 HAMBURG RD.

ITEM 301 ASPHALT CONCRETE BASE, PG64-22, (449)

STA. 168+50.00 TO STA. 169+00.00 (50'x23.67')x6"/12x1/27	=	22 CY
STA. 169+00.00 TO STA. 174+65.10 (565.1'x24.67')x6"/12x1/27	=	258 CY
STA. 174+65.10 TO STA. 174+90.10 (25'x13.33')x6"/12x1/27	=	6 CY
STA. 174+65.10 TO STA. 174+65+50 (0.4'x12.33')x6"/12x1/27	=	0 CY
STA. 174+65.50 TO STA. 174+89.50 (24'x13.33')x6"/12x1/27	=	6 CY
STA. 175+99.98 TO STA. 176+24.98 (25'x13.33')x6"/12x1/27	=	6 CY
STA. 176+03.80 TO STA. 176+28.90 (25.1'x13.33')x6"/12x1/27	=	6 CY
STA. 176+24.98 TO STA. 176+28.90 (3.92'x12.33')x6"/12x1/27	=	1 CY
STA. 176+28.90 TO STA. 178+50.00 (221.1'x24.67')x6"/12x1/27	=	101 CY
STA. 178+50.00 TO STA. 179+00.00 (50'x23.82')x6"/12x1/27	=	22 CY
	TOTAL =	428 CY

DESIGN AGENCY
DLZ

DESIGNER SDB
REVIEWER CSR 03/13/25
PROJECT ID 113793
SHEET P.7 | TOTAL 49

FAI-CR55-3.319

SUBSUMMARY/PAVEMENT CALCULATIONS
CR 55 HAMBURG RD.

ITEM 304 AGGREGATE BASE

STA. 168+50.00 TO STA. 169+00.00 (50'x27')x6"/12x1/27	=	25 CY
STA. 169+00.00 TO STA. 174+65.10 (565.1'x28')x6"/12x1/27	=	293 CY
STA. 174+65.10 TO STA. 174+90.10 (25'x15')x6"/12x1/27	=	7 CY
STA. 174+65.10 TO STA. 174+65+50 (0.4'x14')x6"/12x1/27	=	0 CY
STA. 174+65.50 TO STA. 174+89.50 (24'x15')x6"/12x1/27	=	7 CY
STA. 175+99.98 TO STA. 176+24.98 (25'x15')x6"/12x1/27	=	7 CY
STA. 176+03.80 TO STA. 176+28.90 (25.1'x15')x6"/12x1/27	=	7 CY
STA. 176+24.98 TO STA. 176+28.90 (3.92'x14')x6"/12x1/27	=	1 CY
STA. 176+28.90 TO STA. 178+50.00 (221.1'x28')x6"/12x1/27	=	115 CY
STA. 178+50.00 TO STA. 179+00.00 (50'x27.15')x6"/12x1/27	=	25 CY

DRIVES

STA. 170+30.47 TO STA. 170+92.00 (1797.5 SF))x6"/12x1/27	=	33 CY
STA. 171+36.00 TO STA. 171+90.14 (798.0 SF))x6"/12x1/27	=	15 CY
STA. 176+32.21 TO STA. 176+79.06 (833.2 SF))x6"/12x1/27	=	15 CY
STA. 176+42.37 TO STA. 176+79.69 (1347.1 SF))x6"/12x1/27	=	25 CY
	TOTAL =	575 CY

ITEM 407 TACK COAT (INTERMEDIATE COURSE)

STA. 167+50.00 TO STA. 168+50.00 (100'x21.65')x1/9x0.05	=	12 GAL
STA. 168+50.00 TO STA. 169+00.00 (50'x23')x1/9x0.05	=	6 GAL
STA. 169+00.00 TO STA. 174+65.10 (565.1'x24')x1/9x0.05	=	75 GAL
STA. 174+65.10 TO STA. 174+90.10 (25'x12')x1/9x0.05	=	2 GAL
STA. 174+65.10 TO STA. 174+65+50 (0.4'x12')x1/9x0.05	=	0 GAL
STA. 174+65.50 TO STA. 174+89.50 (24'x12')x1/9x0.05	=	2 GAL
STA. 175+99.98 TO STA. 176+24.98 (25'x12')x1/9x0.05	=	2 GAL
STA. 176+03.80 TO STA. 176+28.90 (25.1'x12')x1/9x0.05	=	2 GAL
STA. 176+24.98 TO STA. 176+28.90 (3.92'x12')x1/9x0.05	=	0 GAL
STA. 176+28.90 TO STA. 178+50.00 (221.1'x24')x1/9x0.05	=	29 GAL
STA. 178+50.00 TO STA. 179+00.00 (50'x23.15')x1/9x0.05	=	6 GAL
STA. 179+00.00 TO STA. 179+50.00 (50'x22.40')x1/9x0.05	=	6 GAL
	TOTAL =	142 GAL

ITEM 407 TACK COAT (BASE COURSE)

STA. 167+50.00 TO STA. 168+50.00 (100'x21.65')x1/9x0.05	=	12 GAL
STA. 168+50.00 TO STA. 169+00.00 (50'x23')x1/9x0.05	=	6 GAL
STA. 169+00.00 TO STA. 174+65.10 (565.1'x24')x1/9x0.05	=	75 GAL
STA. 174+65.10 TO STA. 174+90.10 (25'x12')x1/9x0.05	=	2 GAL
STA. 174+65.10 TO STA. 174+65+50 (0.4'x12')x1/9x0.05	=	0 GAL
STA. 174+65.50 TO STA. 174+89.50 (24'x12')x1/9x0.05	=	2 GAL
STA. 175+99.98 TO STA. 176+24.98 (25'x12')x1/9x0.05	=	2 GAL
STA. 176+03.80 TO STA. 176+28.90 (25.1'x12')x1/9x0.05	=	2 GAL
STA. 176+24.98 TO STA. 176+28.90 (3.92'x12')x1/9x0.05	=	0 GAL
STA. 176+28.90 TO STA. 178+50.00 (221.1'x24')x1/9x0.05	=	29 GAL
STA. 178+50.00 TO STA. 179+00.00 (50'x23.15')x1/9x0.05	=	6 GAL
STA. 179+00.00 TO STA. 179+50.00 (50'x22.40')x1/9x0.05	=	6 GAL
	TOTAL =	142 GAL

ITEM 411 STABILIZED CRUSHED AGGREGATE, AS PER PLAN

STA. 167+50.00 TO STA. 168+50.00 (100'x4')x3"/12x1/27	=	4 CY
STA. 168+50.00 TO STA. 169+00.00 (50'x4')x3"/12x1/27	=	2 CY
STA. 169+00.00 TO STA. 174+89.81 (589.8'x4')x3"/12x1/27	=	22 CY
STA. 176+01.85 TO STA. 178+50.00 (248.2'x4')x3"/12x1/27	=	9 CY
STA. 178+50.00 TO STA. 179+00.00 (50'x4')x3"/12x1/27	=	2 CY
STA. 179+00.00 TO STA. 179+50.00 (50'x4')x3"/12x1/27	=	2 CY
	TOTAL =	41 CY

SUBSUMMARY/PAVEMENT CALCULATIONS
CR 55 HAMBURG RD.

ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22

STA. 167+50.00 TO STA. 168+50.00 (100'x21.65')x1.5"/12x1/27	=	10 CY
STA. 168+50.00 TO STA. 169+00.00 (50'x23')x1.5"/12x1/27	=	5 CY
STA. 169+00.00 TO STA. 174+65.10 (565.1'x24')x1.5"/12x1/27	=	63 CY
STA. 174+65.10 TO STA. 174+90.10 (25'x12')x1.5"/12x1/27	=	1 CY
STA. 174+65.10 TO STA. 174+65+50 (0.4'x12')x1.5"/12x1/27	=	0 CY
STA. 174+65.50 TO STA. 174+89.50 (24'x12')x1.5"/12x1/27	=	1 CY
STA. 175+99.98 TO STA. 176+24.98 (25'x12')x1.5"/12x1/27	=	1 CY
STA. 176+03.80 TO STA. 176+28.90 (25.1'x12')x1.5"/12x1/27	=	1 CY
STA. 176+24.98 TO STA. 176+28.90 (3.92'x12')x1.5"/12x1/27	=	0 CY
STA. 176+28.90 TO STA. 178+50.00 (221.1'x24')x1.5"/12x1/27	=	25 CY
STA. 178+50.00 TO STA. 179+00.00 (50'x23.15')x1.5"/12x1/27	=	5 CY
STA. 179+00.00 TO STA. 179+50.00 (50'x22.40')x1.5"/12x1/27	=	5 CY
	TOTAL =	117 CY

ITEM 441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)

STA. 167+50.00 TO STA. 168+50.00 (100'x21.65')x2"/12x1/27	=	13 CY
STA. 168+50.00 TO STA. 169+00.00 (50'x23')x1.5"/12x1/27	=	5 CY
STA. 169+00.00 TO STA. 174+65.10 (565.1'x24')x1.5"/12x1/27	=	63 CY
STA. 174+65.10 TO STA. 174+90.10 (25'x12')x1.5"/12x1/27	=	1 CY
STA. 174+65.10 TO STA. 174+65+50 (0.4'x12')x1.5"/12x1/27	=	0 CY
STA. 174+65.50 TO STA. 174+89.50 (24'x12')x1.5"/12x1/27	=	1 CY
STA. 175+99.98 TO STA. 176+24.98 (25'x12')x1.5"/12x1/27	=	1 CY
STA. 176+03.80 TO STA. 176+28.90 (25.1'x12')x1.5"/12x1/27	=	1 CY
STA. 176+24.98 TO STA. 176+28.90 (3.92'x12')x1.5"/12x1/27	=	0 CY
STA. 176+28.90 TO STA. 178+50.00 (221.1'x24')x1.5"/12x1/27	=	25 CY
STA. 178+50.00 TO STA. 179+00.00 (50'x23.15')x1.5"/12x1/27	=	5 CY
STA. 179+00.00 TO STA. 179+50.00 (50'x22.40')x2"/12x1/27	=	7 CY
	TOTAL =	122 CY

SUBSUMMARY/PAVEMENT CALCULATIONS
CR 55 HAMBURG RD.

AGGREGATE DRAINS TABLE

605 AGGREGATE DRAINS LEFT FT	STATION	605 AGGREGATE DRAINS RIGHT FT
	168+50.00	7
6	168+75.00	
	169+00.00	5
5	169+25.00	
	169+50.00	5
5	169+75.00	
	170+00.00	5
	170+25.00	5
	171+00.00	5
	171+25.00	5
	171+50.00	5
	171+75.00	5
	172+00.00	5
	172+25.00	5
	172+50.00	5
	172+75.00	5
	173+00.00	5
	173+25.00	5
	173+50.00	5
	173+75.00	6
	174+00.00	7
	174+25.00	7
	174+50.00	7
	174+75.00	7
	176+25.00	6
	177+00.00	7
	177+25.00	7
	177+50.00	7
	177+75.00	7
	178+00.00	7
	178+25.00	6
	178+50.00	5
	178+75.00	5
16	TOTALS	173

SUBSUMMARIES

DESIGN AGENCY
DLZ

DESIGNER
SDB

REVIEWER
CSR 03/13/25

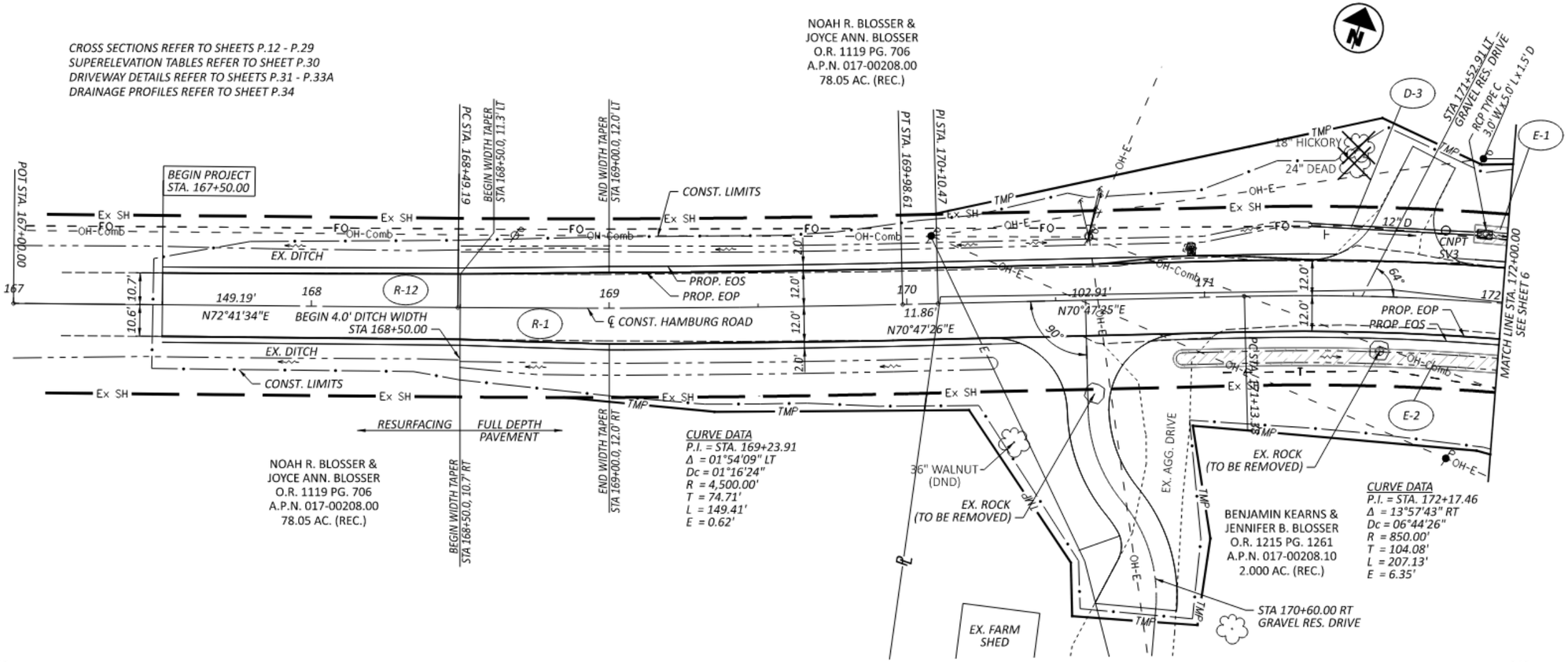
PROJECT ID
113793

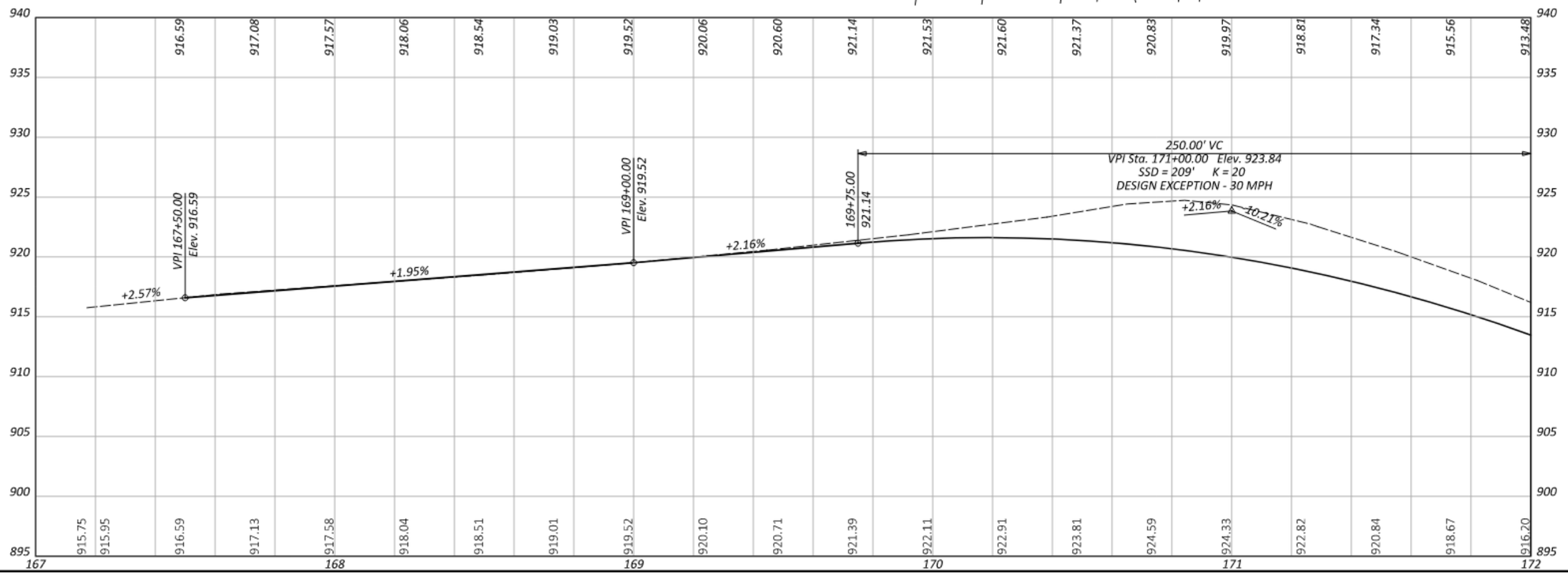
SHEET P.8 | TOTAL 49

FAI-CR55-3.319

MODEL: Subsummary_SH2 PAPERSIZE: 17x11 (E.) DATE: 8/21/2025 TIME: 11:58:49 AM USER: ehines
X:\Projects\2023\2321112\200 Field Co Hambu\1202000400\Engineering\Roadway\Sheets\1202200_GS001.dgn

CROSS SECTIONS REFER TO SHEETS P.12 - P.29
SUPERELEVATION TABLES REFER TO SHEET P.30
DRIVEWAY DETAILS REFER TO SHEETS P.31 - P.33A
DRAINAGE PROFILES REFER TO SHEET P.34





HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE - HAMBURG ROAD
STA 167+00.00 TO STA 172+00.00

DESIGN AGENCY
DLZ

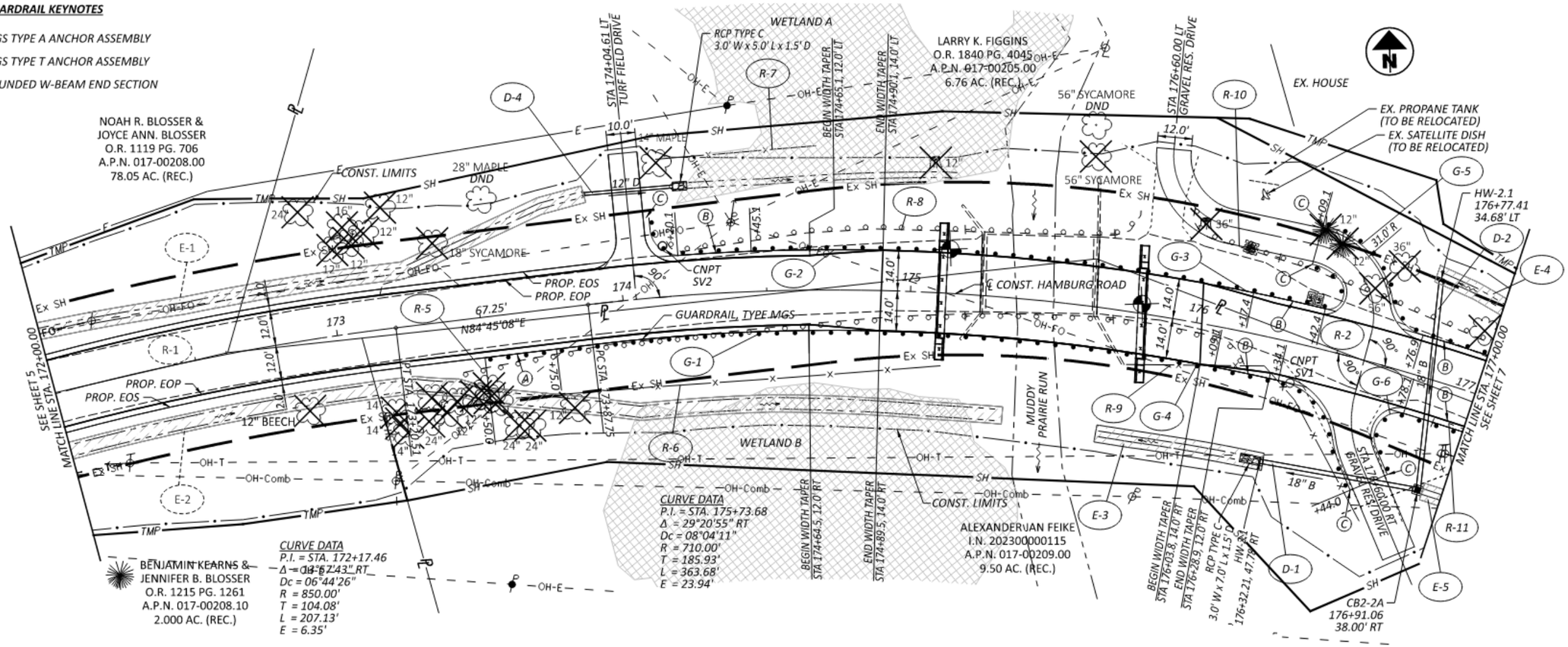
DESIGNER EMH
REVIEWER CSR 02/10/25
PROJECT ID 113793
SHEET P.9 TOTAL 49

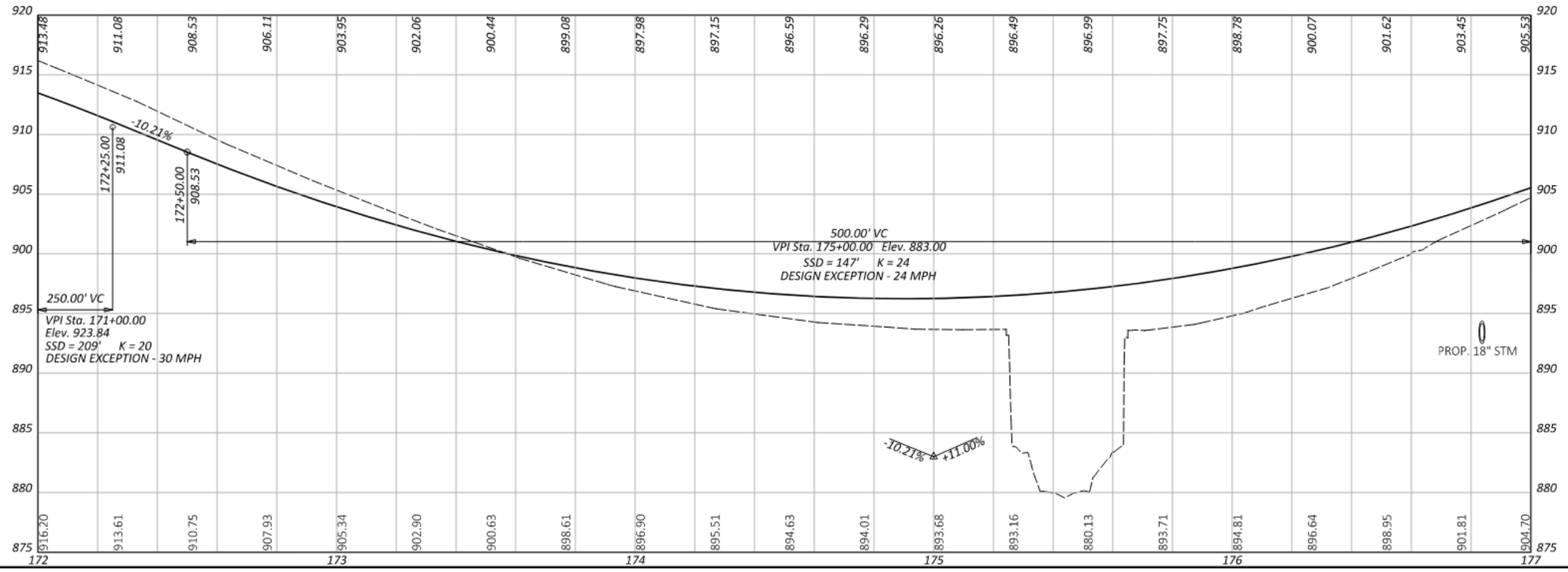
FAI-CR55-3.319

MODEL: CLP_Hamburg Road - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:58:57 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hamblu\120200\400-Engineering\Roadway\Sheets\120200_GP001.dgn

GUARDRAIL KEYNOTES

- (A) MGS TYPE A ANCHOR ASSEMBLY
- (B) MGS TYPE T ANCHOR ASSEMBLY
- (C) ROUNDED W-BEAM END SECTION





FAI-CR55-3.319

MODEL: CLP_Hamburg Road - Plan 2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:00 AM USER: dhimes
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PLAN AND PROFILE - HAMBURG ROAD STA 172+00.00 TO STA 177+00.00

DESIGN AGENCY: DLZ

DESIGNER: EMH

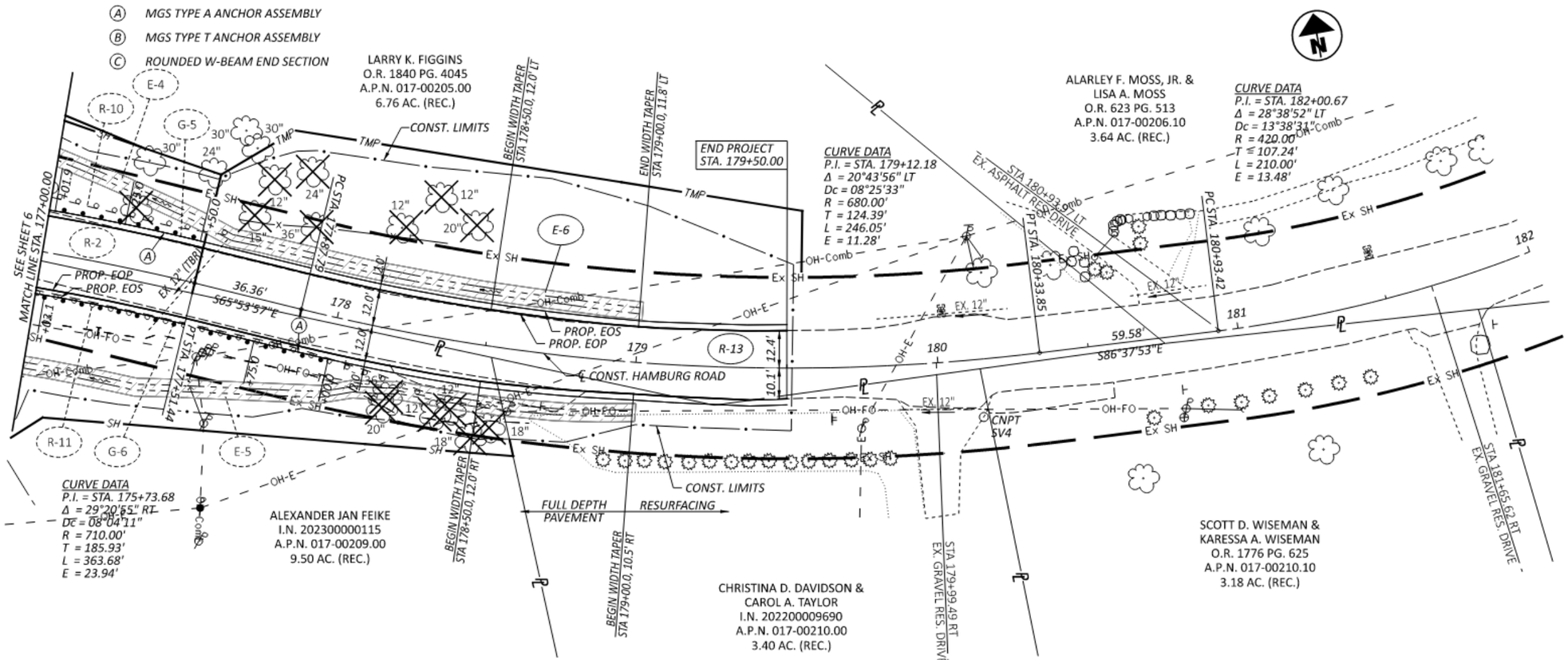
REVIEWER: CSR 02/10/25

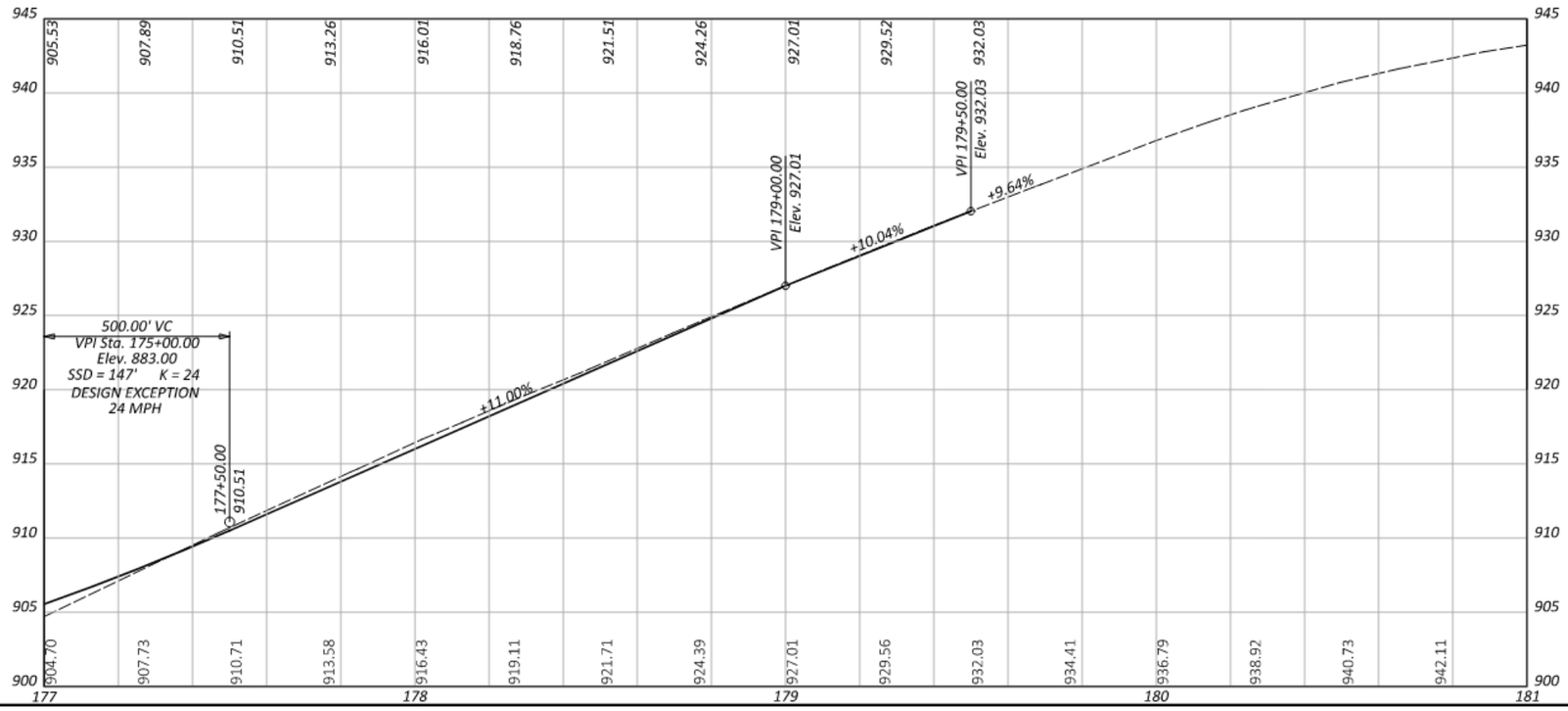
PROJECT ID: 113793

SHEET: P.10 TOTAL: 49

GUARDRAIL KEYNOTES

- (A) MGS TYPE A ANCHOR ASSEMBLY
- (B) MGS TYPE T ANCHOR ASSEMBLY
- (C) ROUNDED W-BEAM END SECTION





HORIZONTAL SCALE IN FEET
0 10 20 40

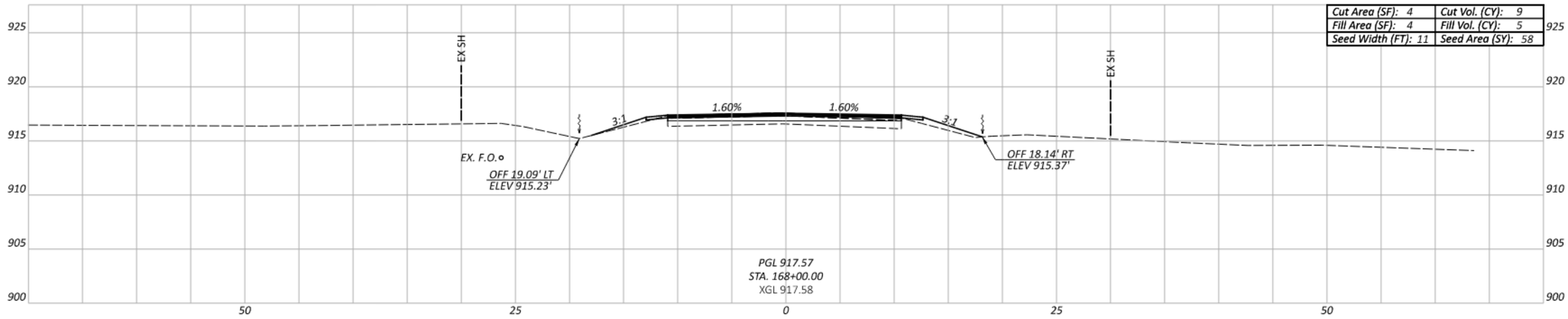
PLAN AND PROFILE - HAMBURG ROAD
STA 177+00.00 TO STA 182+00.00

DESIGN AGENCY
DLZ

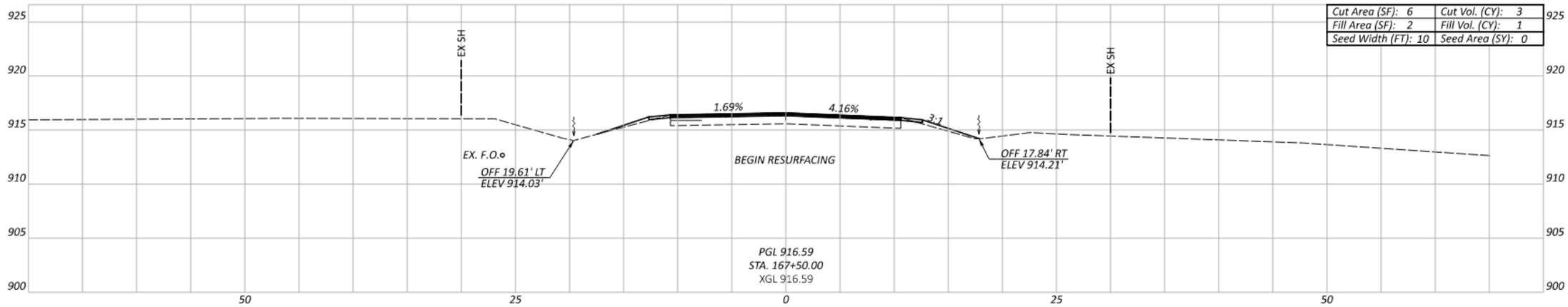
DESIGNER EMH
REVIEWER CSR 02/10/25
PROJECT ID 113793
SHEET P.11 TOTAL 49

FAI-CR55-3.319

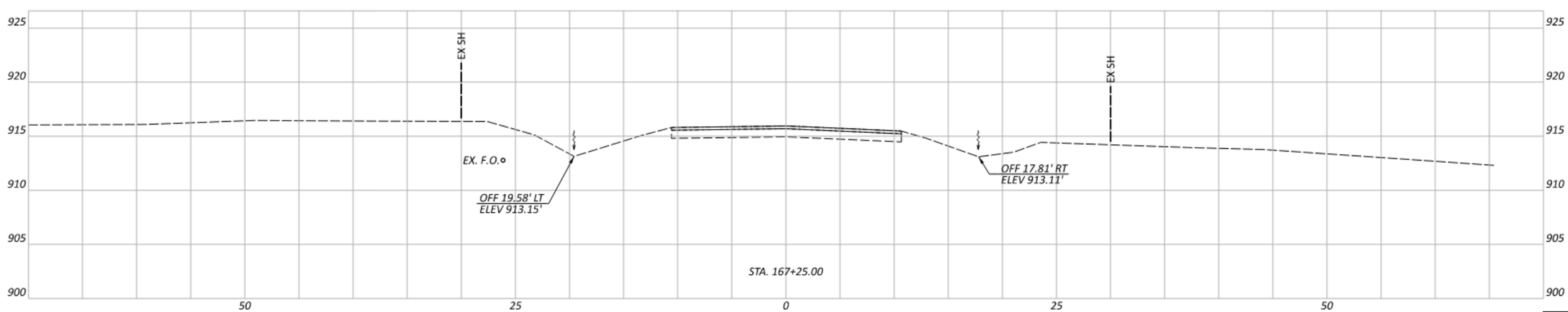
MODEL: CLP_Hamburg Road - Plan 3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:02 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hamb\u120200\400-Engineering\Roadway\Sheets\120200_GP001.dgn



Cut Area (SF): 4	Cut Vol. (CY): 9
Fill Area (SF): 4	Fill Vol. (CY): 5
Seed Width (FT): 11	Seed Area (SY): 58



Cut Area (SF): 6	Cut Vol. (CY): 3
Fill Area (SF): 2	Fill Vol. (CY): 1
Seed Width (FT): 10	Seed Area (SY): 0



Sheet Totals		
Seeding	Cut	Fill
58	12	6

CROSS SECTIONS - HAMBURG RD.
STA 167+25.00 TO STA 168+00.00

DESIGN AGENCY
DLZ

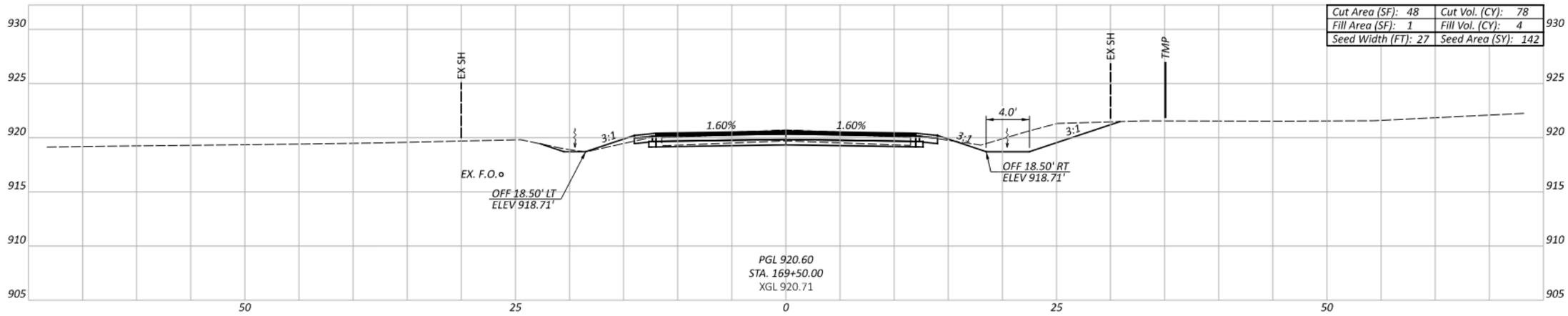
DESIGNER
EMH

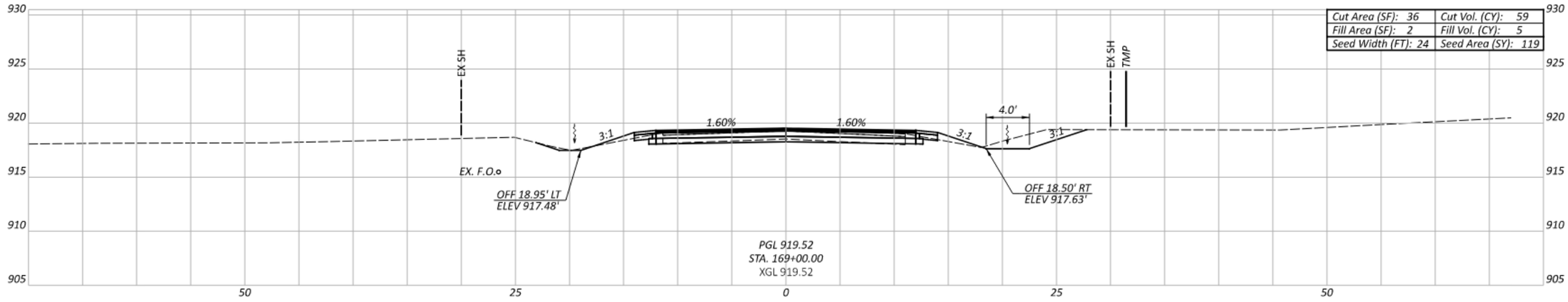
REVIEWER
CSR 02/10/25

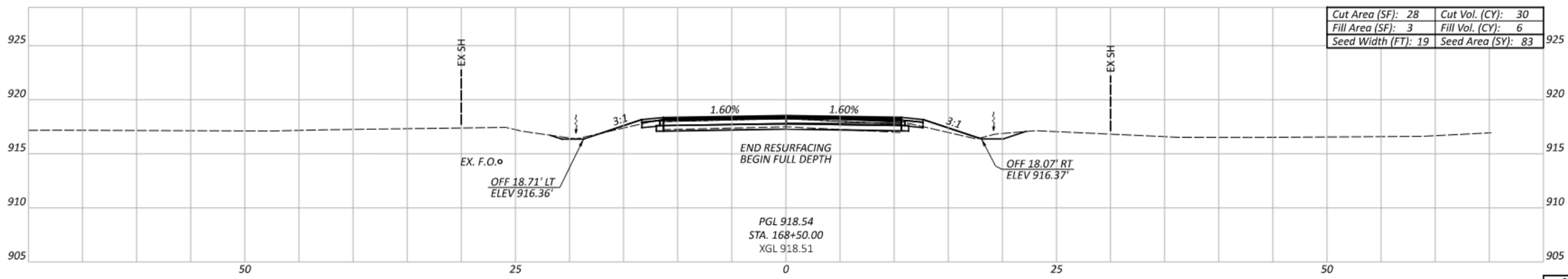
PROJECT ID
113793

SHEET P.12 TOTAL 49

FAI-CR55-3.319







CROSS SECTIONS - HAMBURG RD.
STA 168+50.00 TO STA 169+50.00

Sheet Totals		
Seeding	Cut	Fill
344	167	15

DESIGN AGENCY
DLZ

DESIGNER
EMH

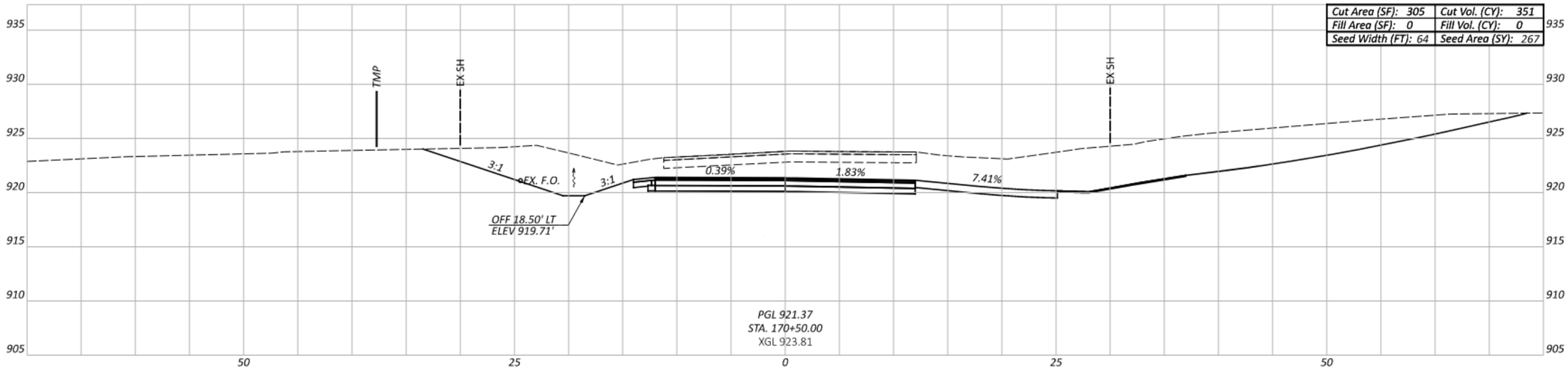
REVIEWER
CSR 02/10/25

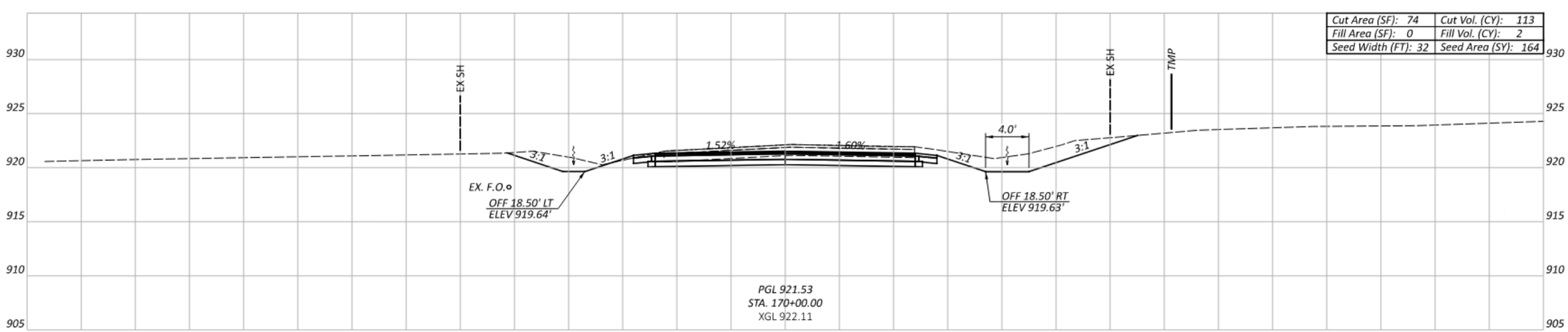
PROJECT ID
113793

SHEET P.13 | TOTAL 49

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 168+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:14 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Roadway\Sheets\120200_XS001.dgn





CROSS SECTIONS - HAMBURG RD.
STA 170+00.00 TO STA 170+50.00

Sheet Totals		
Seeding	Cut	Fill
431	464	2

DESIGN AGENCY
DLZ

DESIGNER
EMH

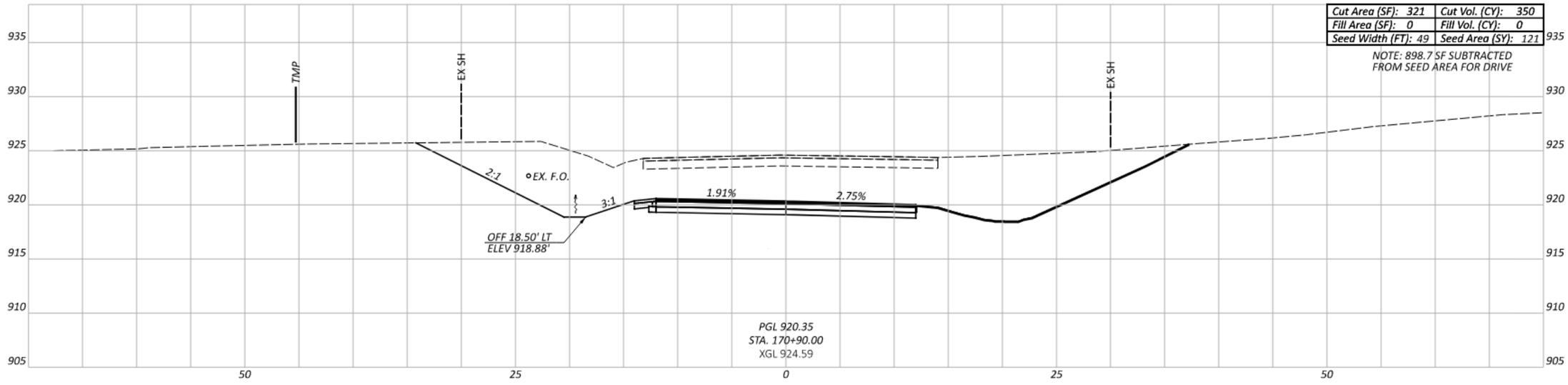
REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.14 | TOTAL 49

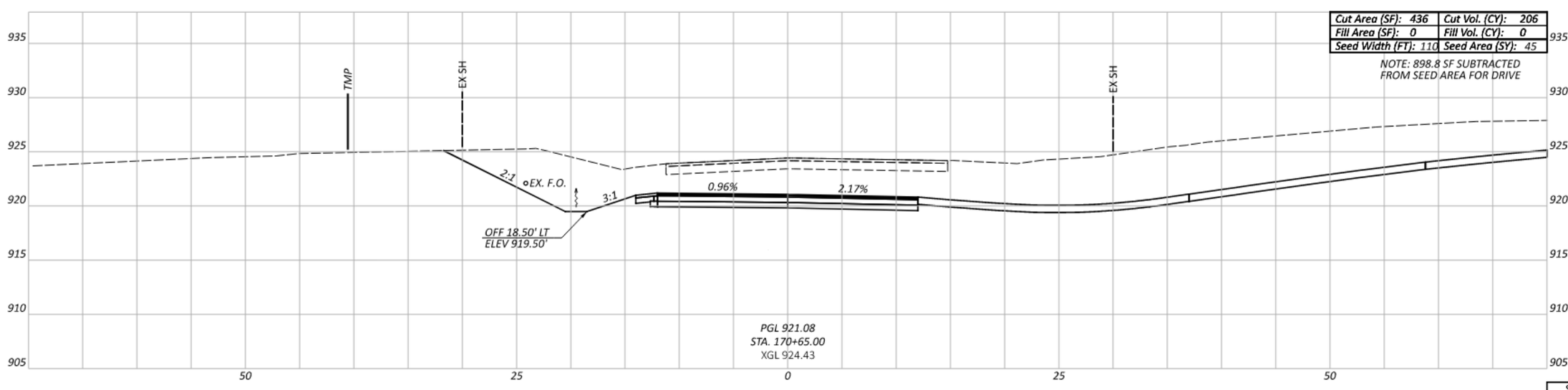
FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 170+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:19 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Roadway\Sheets\120200_XS001.dgn



Cut Area (SF): 321	Cut Vol. (CY): 350
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 49	Seed Area (SY): 121

NOTE: 898.7 SF SUBTRACTED FROM SEED AREA FOR DRIVE



Cut Area (SF): 436	Cut Vol. (CY): 206
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 110	Seed Area (SY): 45

NOTE: 898.8 SF SUBTRACTED FROM SEED AREA FOR DRIVE

Sheet Totals		
Seeding	Cut	Fill
166	556	0

CROSS SECTIONS - HAMBURG RD.
STA 170+65.00 TO STA 170+90.00

DESIGN AGENCY
DLZ

DESIGNER
EMH

REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.15 | TOTAL 49

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 170+65.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:23 AM USER: ehimes
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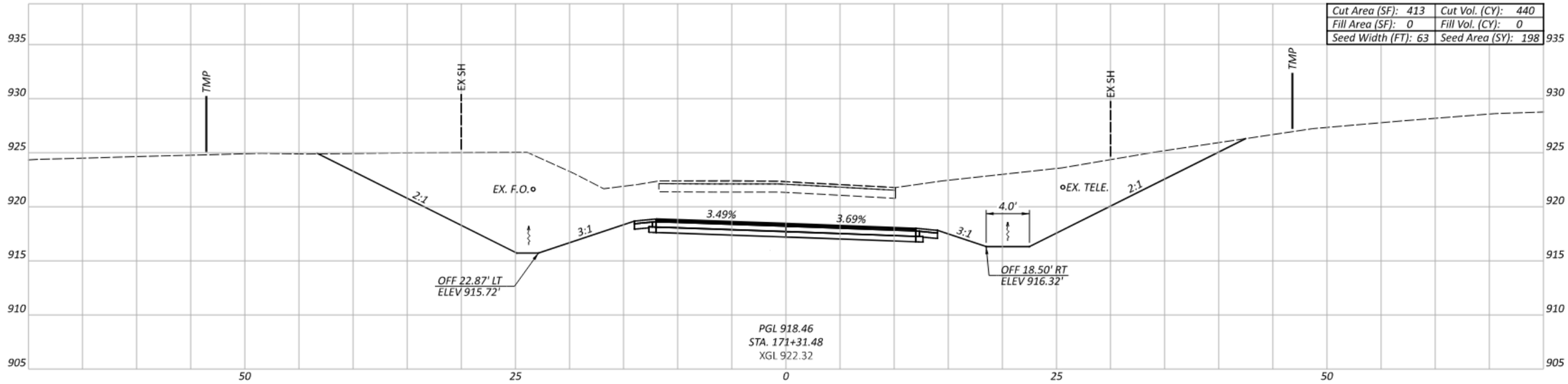
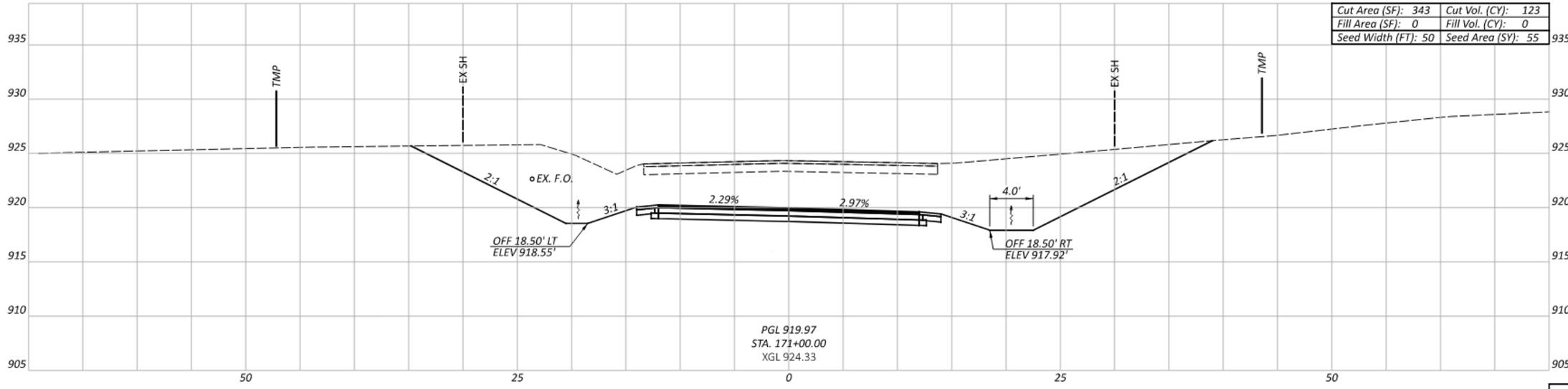




CROSS SECTIONS - HAMBURG RD.
STA 171+00.00 TO STA 171+31.48

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 171+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:27 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Roadway\Sheets\120200_XS001.dgn

DESIGN AGENCY
DLZ

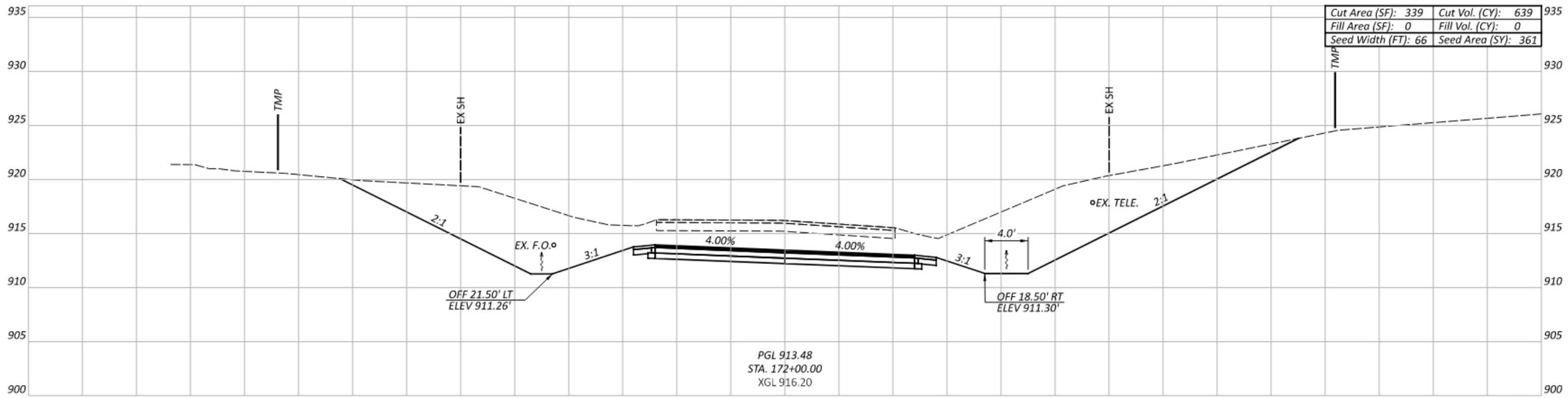
DESIGNER
EMH

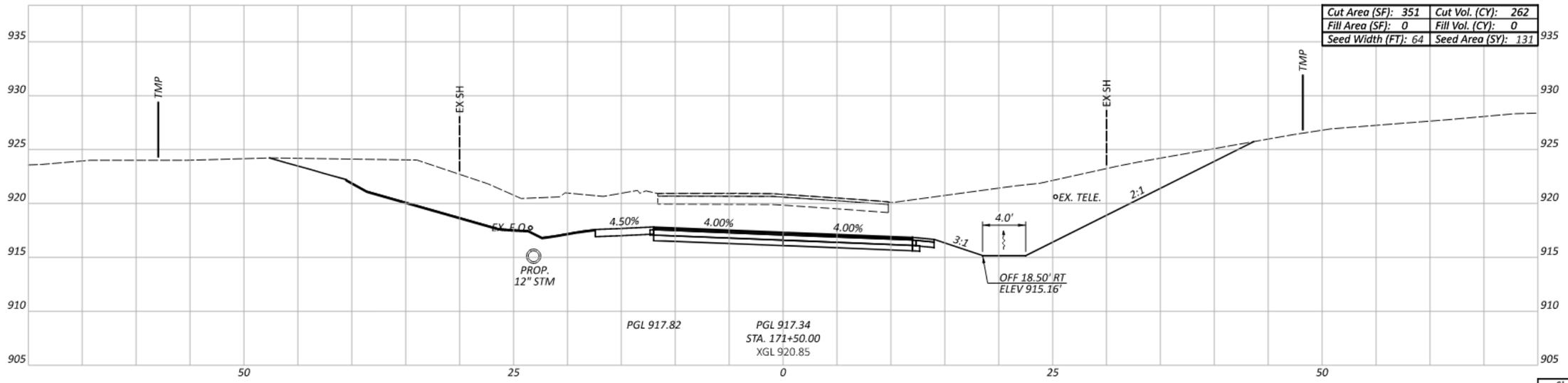
REVIEWER
CSR 02/10/25

PROJECT ID
113793

Sheet Totals		
Seeding	Cut	Fill
253	563	0

SHEET P.16 TOTAL 49





CROSS SECTIONS - HAMBURG RD.
STA 171+50.00 TO STA 172+00.00

DESIGN AGENCY
DLZ

DESIGNER
EMH

REVIEWER
CSR 02/10/25

PROJECT ID
113793

Sheet Totals		
Seeding	Cut	Fill
492	901	0

SHEET P.17 TOTAL 49

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 171+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:31 AM USER: ehimes
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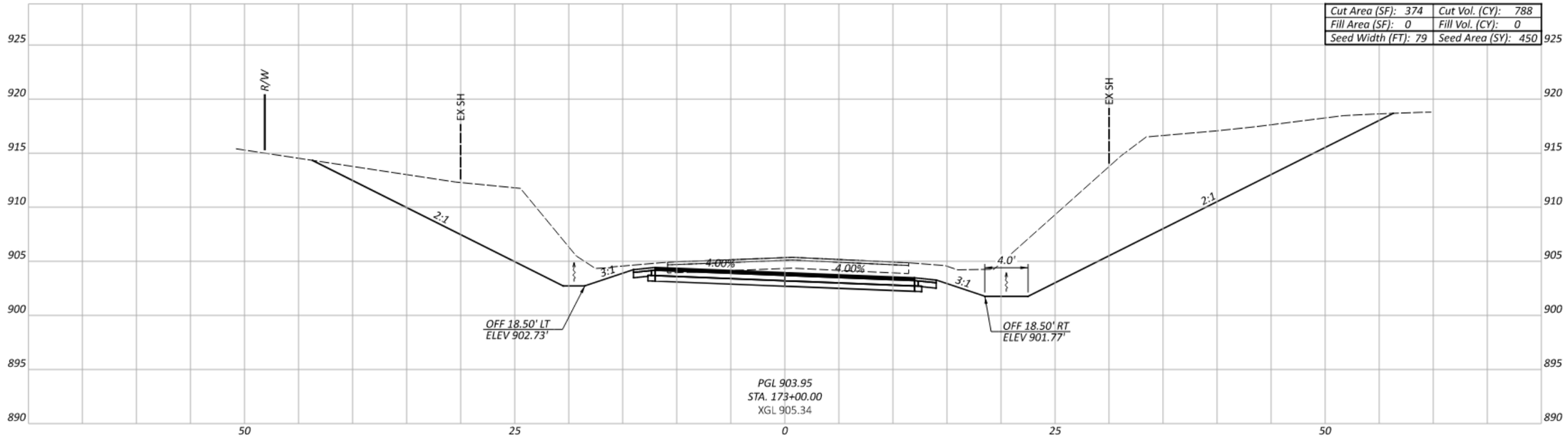
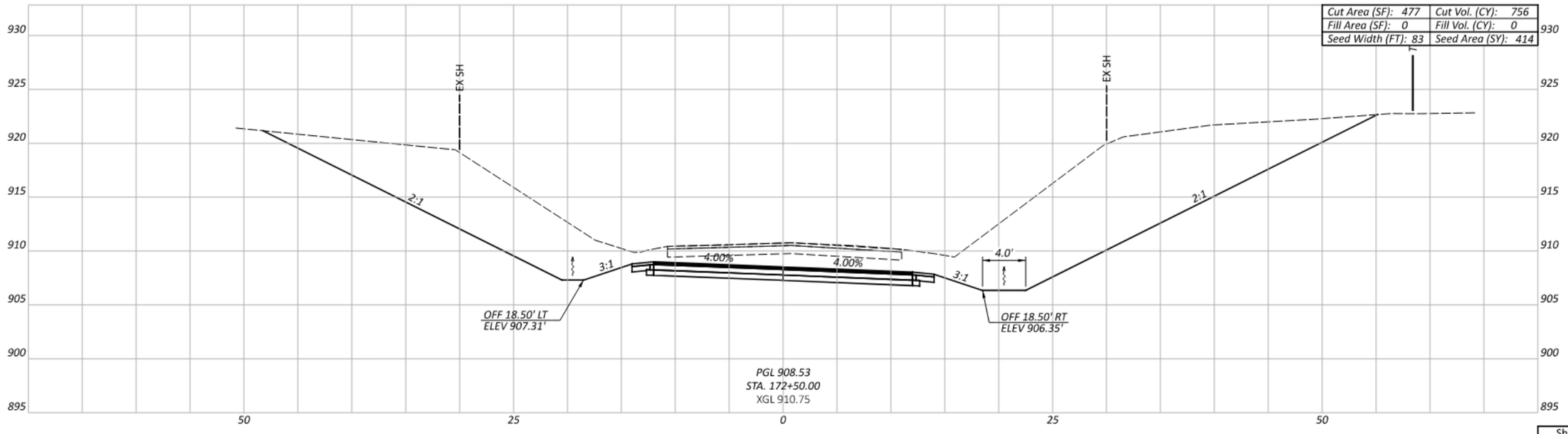




CROSS SECTIONS - HAMBURG RD.
STA 172+50.00 TO STA 173+00.00

Sheet Totals		
Seeding	Cut	Fill
864	1544	0

DESIGN AGENCY
DLZ

DESIGNER
EMH

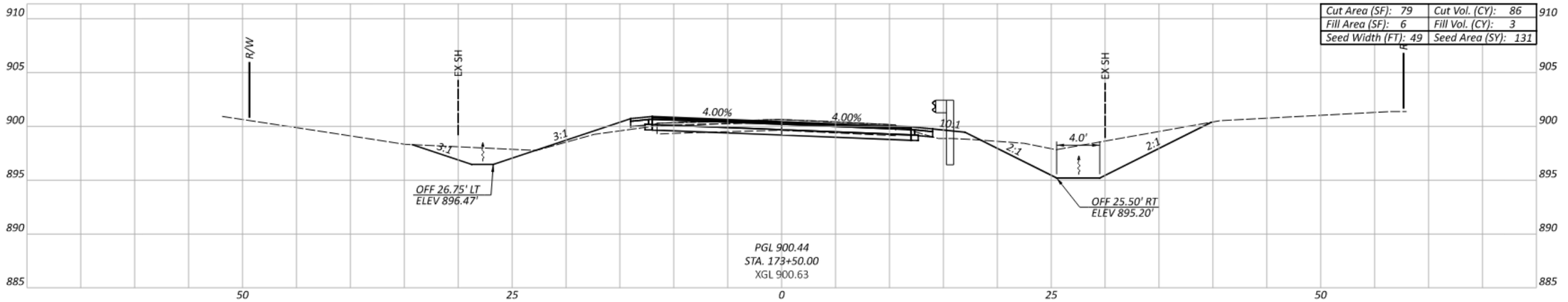
REVIEWER
CSR 02/10/25

PROJECT ID
113793

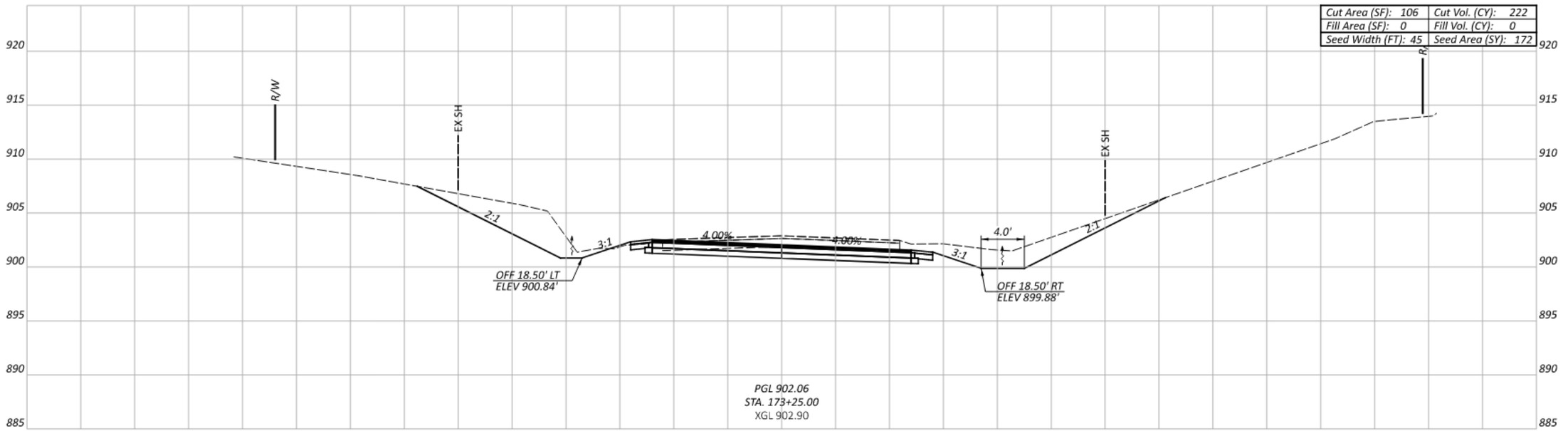
SHEET P.18 TOTAL 49

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 172+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:35 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Roadway\Sheets\120200_XS001.dgn



Cut Area (SF): 79	Cut Vol. (CY): 86
Fill Area (SF): 6	Fill Vol. (CY): 3
Seed Width (FT): 49	Seed Area (SY): 131



Cut Area (SF): 106	Cut Vol. (CY): 222
Fill Area (SF): 0	Fill Vol. (CY): 0
Seed Width (FT): 45	Seed Area (SY): 172

CROSS SECTIONS - HAMBURG RD.
STA 173+25.00 TO STA 173+50.00

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 173+25.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:39 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Roadway\Sheets\120200_XS001.dgn

DESIGN AGENCY
DLZ

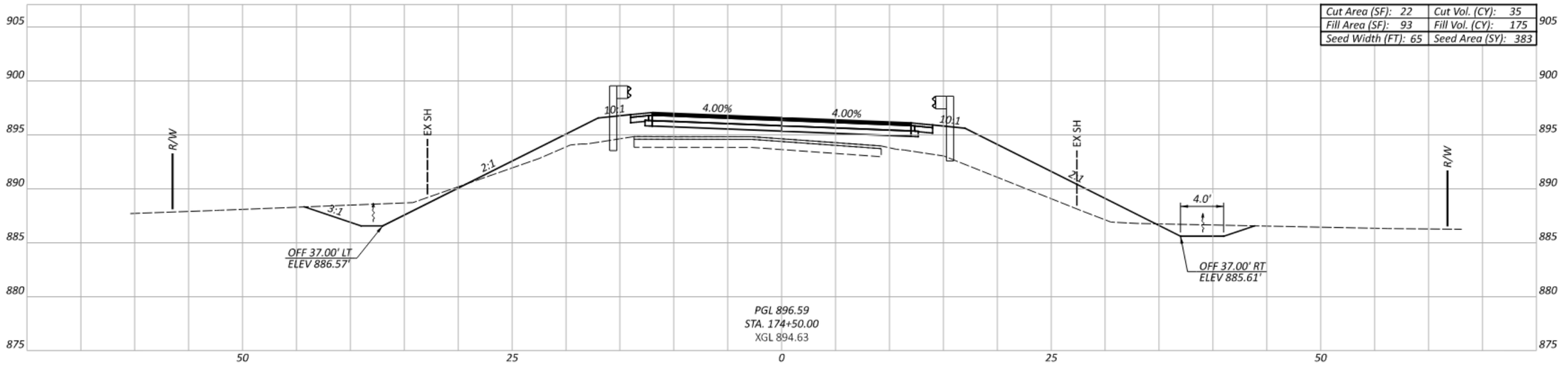
DESIGNER
EMH

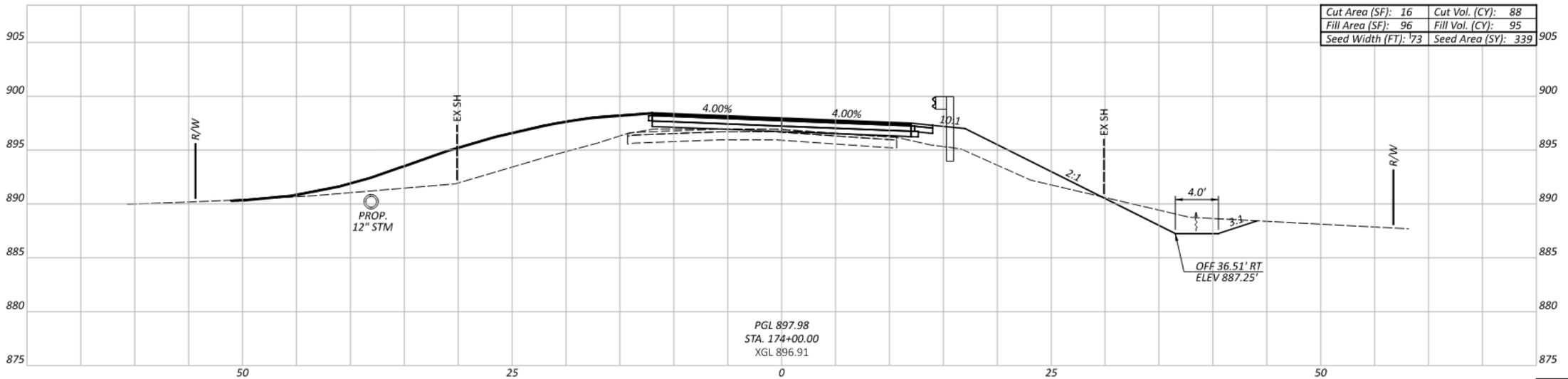
REVIEWER
CSR 02/10/25

PROJECT ID
113793

Sheet Totals		
Seeding	Cut	Fill
303	308	3

SHEET P.19 TOTAL 49





CROSS SECTIONS - HAMBURG RD.
STA 174+00.00 TO STA 174+50.00

FAI-CR55-3.319

DESIGN AGENCY
DLZ

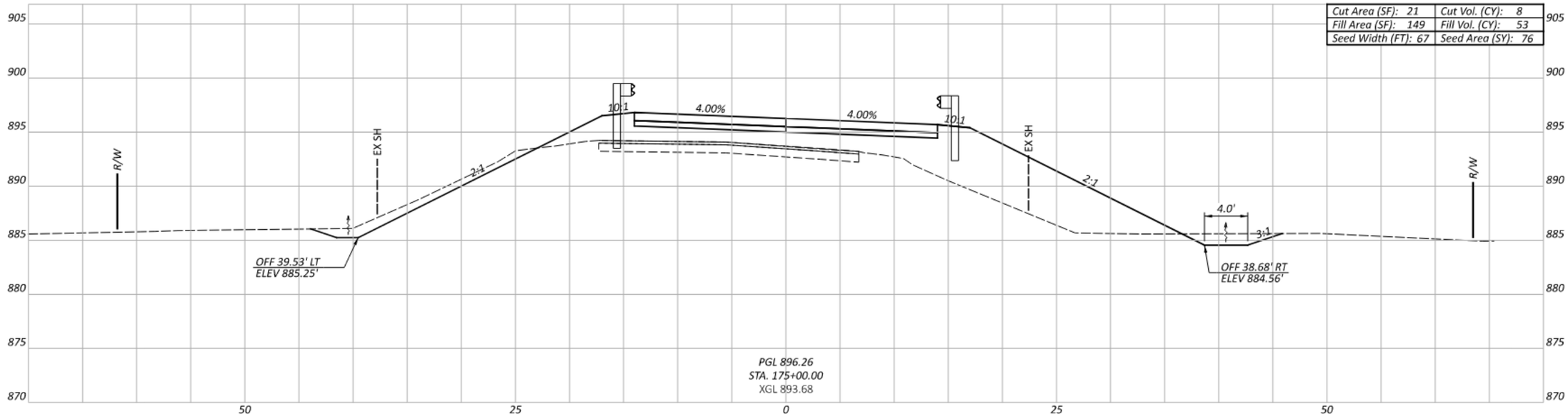
DESIGNER
EMH

REVIEWER
CSR 02/10/25

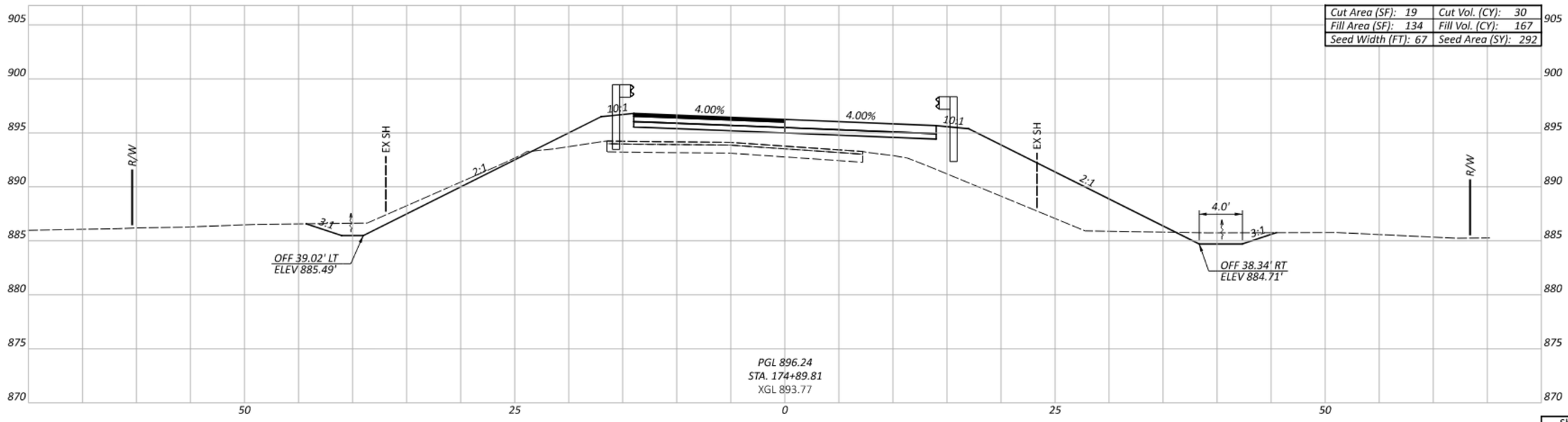
PROJECT ID
113793

Sheet Totals		
Seeding	Cut	Fill
722	123	270

SHEET P.20 TOTAL 49



Cut Area (SF): 21	Cut Vol. (CY): 8
Fill Area (SF): 149	Fill Vol. (CY): 53
Seed Width (FT): 67	Seed Area (SY): 76



Cut Area (SF): 19	Cut Vol. (CY): 30
Fill Area (SF): 134	Fill Vol. (CY): 167
Seed Width (FT): 67	Seed Area (SY): 292

Sheet Totals		
Seeding	Cut	Fill
368	38	220

FAI-CR55-3.319

CROSS SECTIONS - HAMBURG RD.
STA 174+89.81 TO STA 175+00.00

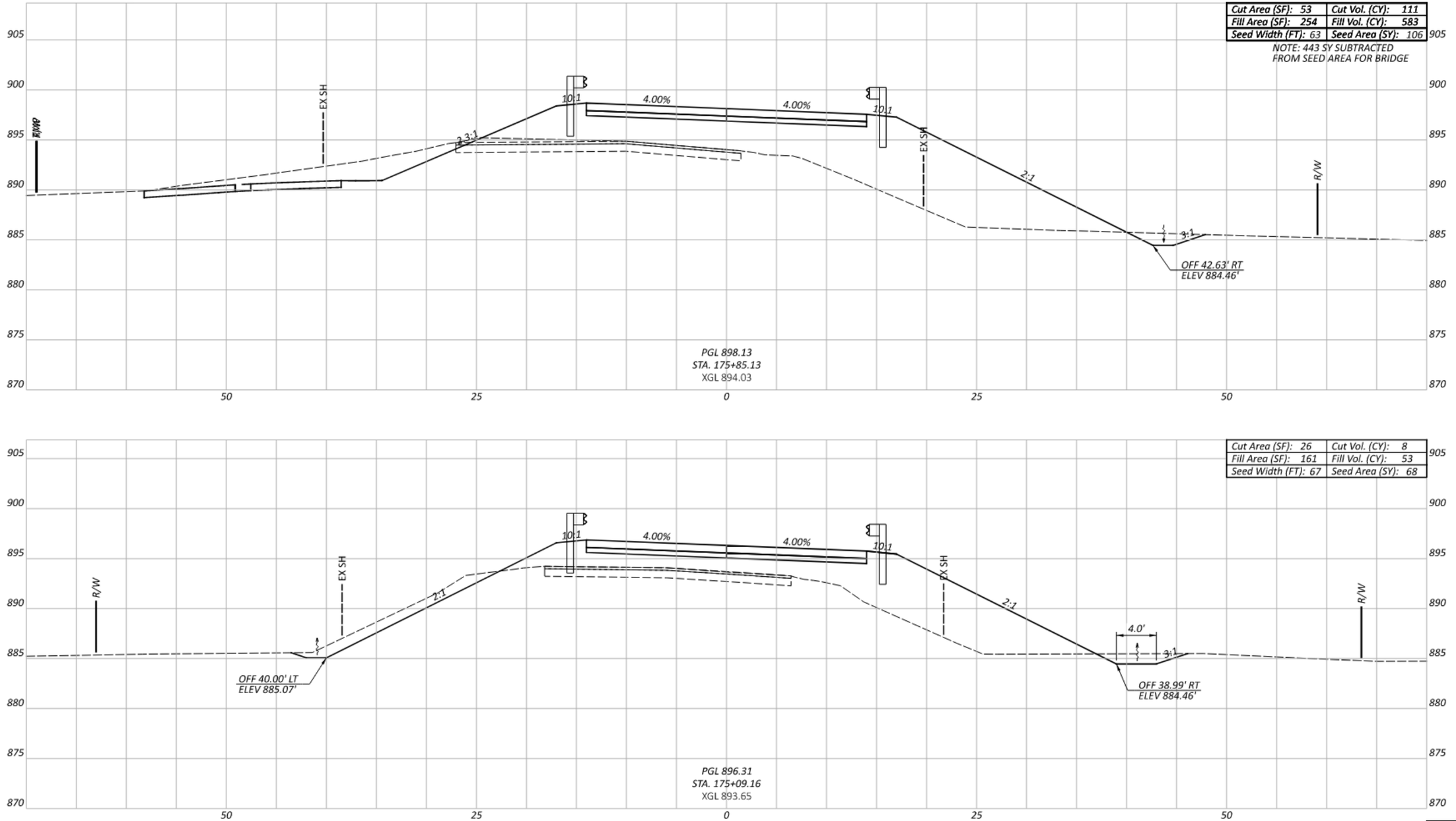
DESIGN AGENCY
DLZ

DESIGNER
EMH

REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.21 | TOTAL 49



CROSS SECTIONS - HAMBURG RD.
STA 175+09.16 TO STA 175+85.13

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 175+09.16 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:49 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Roadway\Sheets\120200_XS001.dgn

Sheet Totals		
Seeding	Cut	Fill
174	119	636

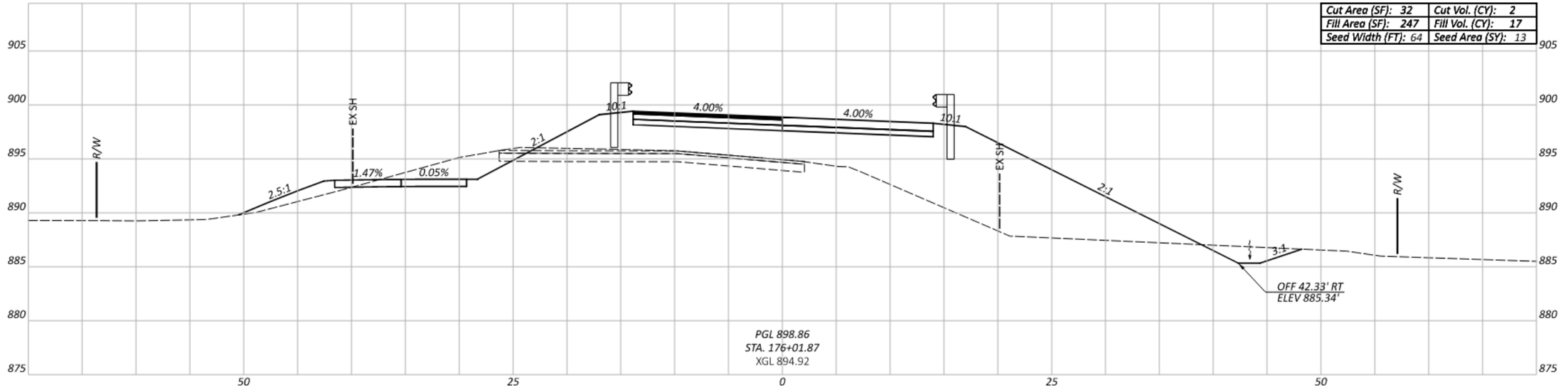
DESIGN AGENCY
DLZ

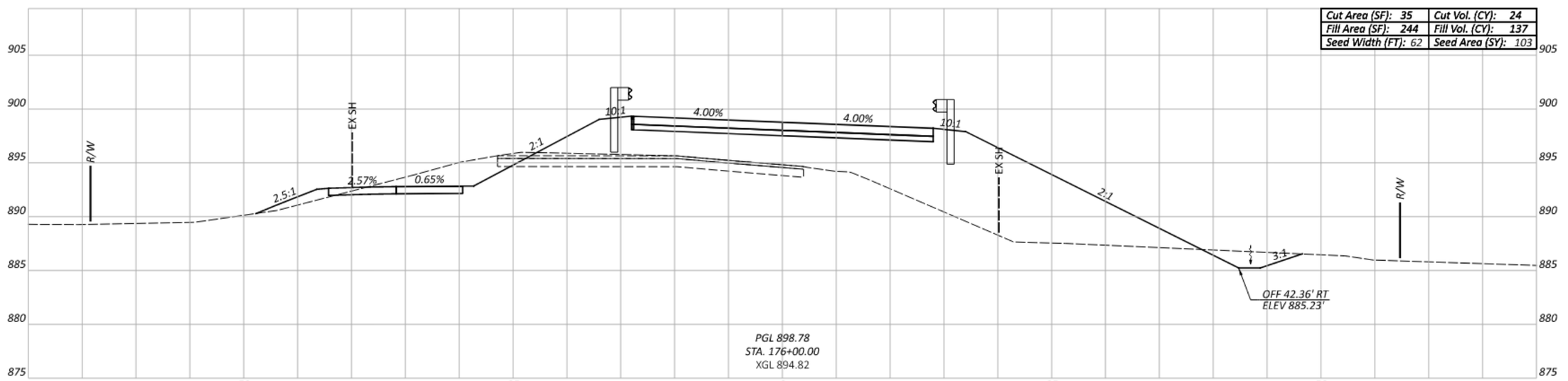
DESIGNER
EMH

REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.22 | TOTAL 49





CROSS SECTIONS - HAMBURG RD.
STA 176+00.00 TO STA 176+01.87

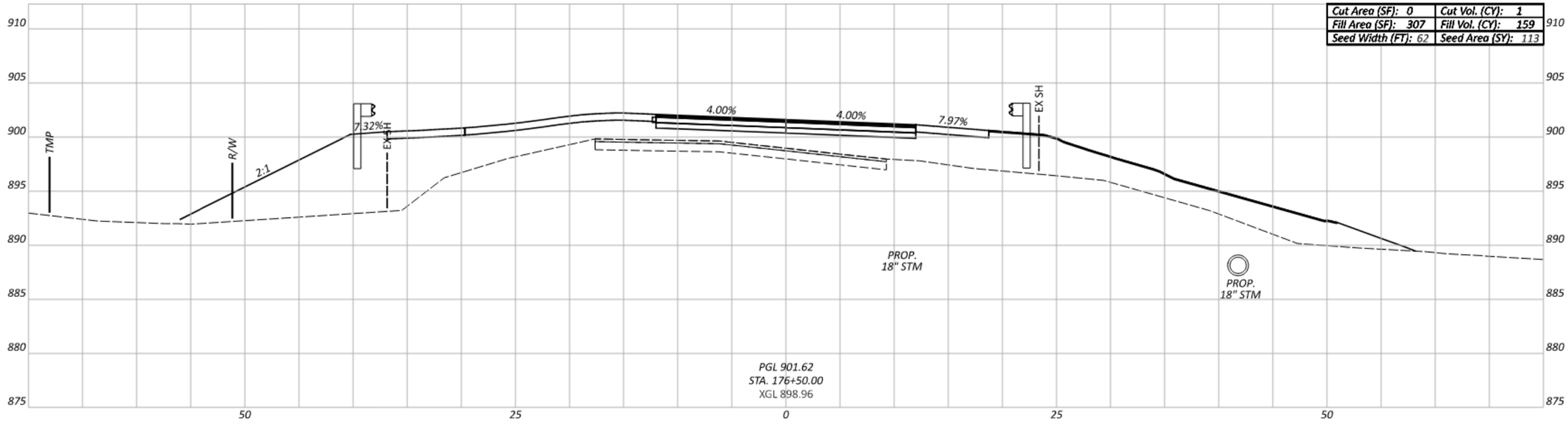
DESIGN AGENCY
DLZ

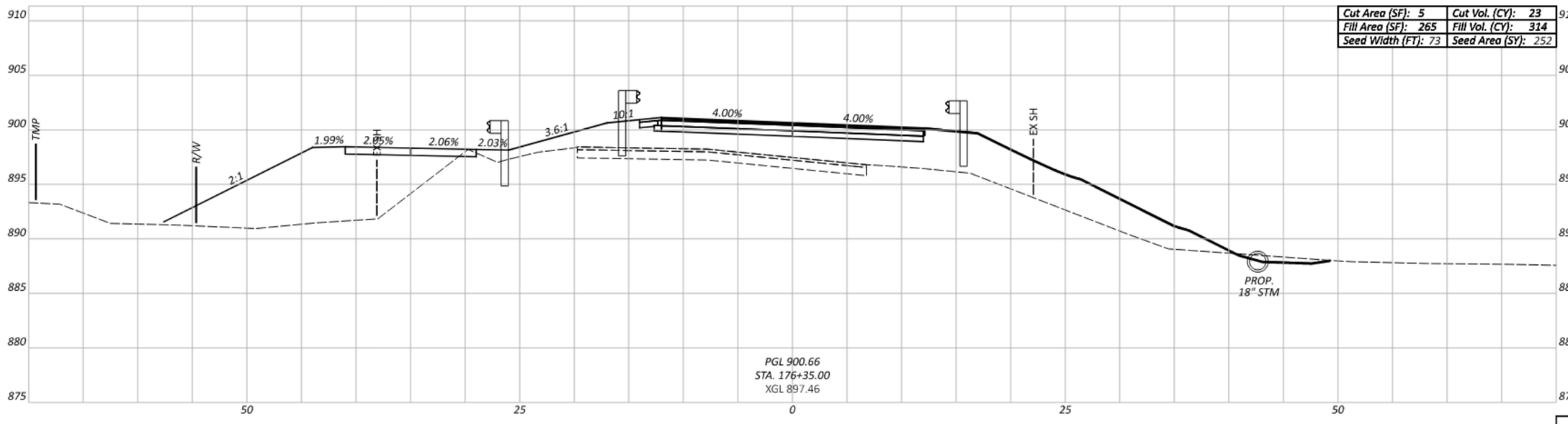
DESIGNER	EMH
REVIEWER	CSR 02/10/25
PROJECT ID	113793
SHEET	P.23
TOTAL	49

Sheet Totals		
Seeding	Cut	Fill
116	26	154

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 176+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 11:59:53 AM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Roadway\Sheets\120200_XS001.dgn





CROSS SECTIONS - HAMBURG RD.
STA 176+35.00 TO STA 176+50.00

Sheet Totals		
Seeding	Cut	Fill
365	24	473

DESIGN AGENCY
DLZ

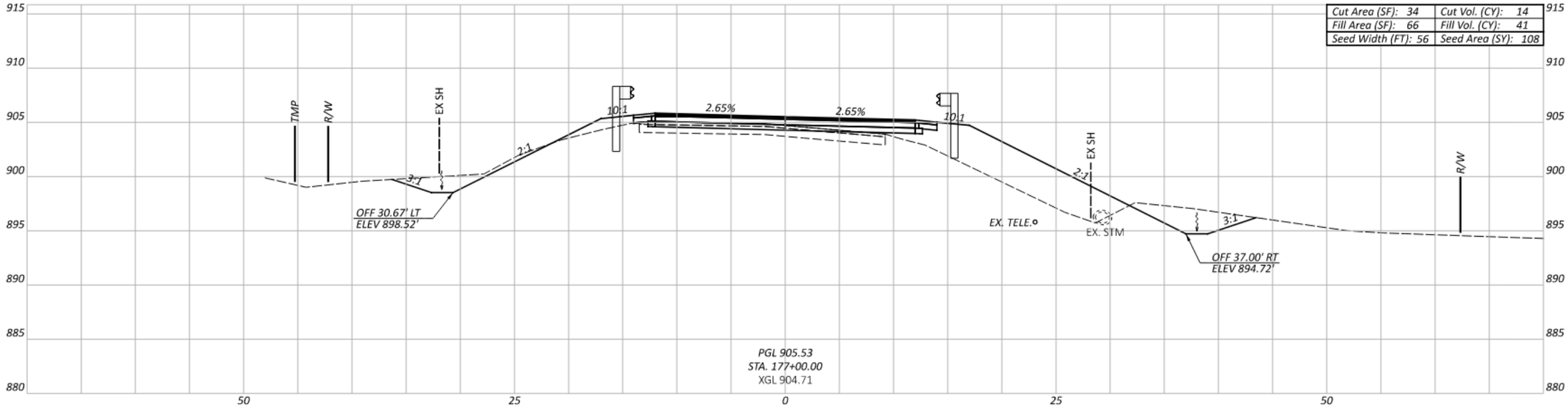
DESIGNER
EMH

REVIEWER
CSR 02/10/25

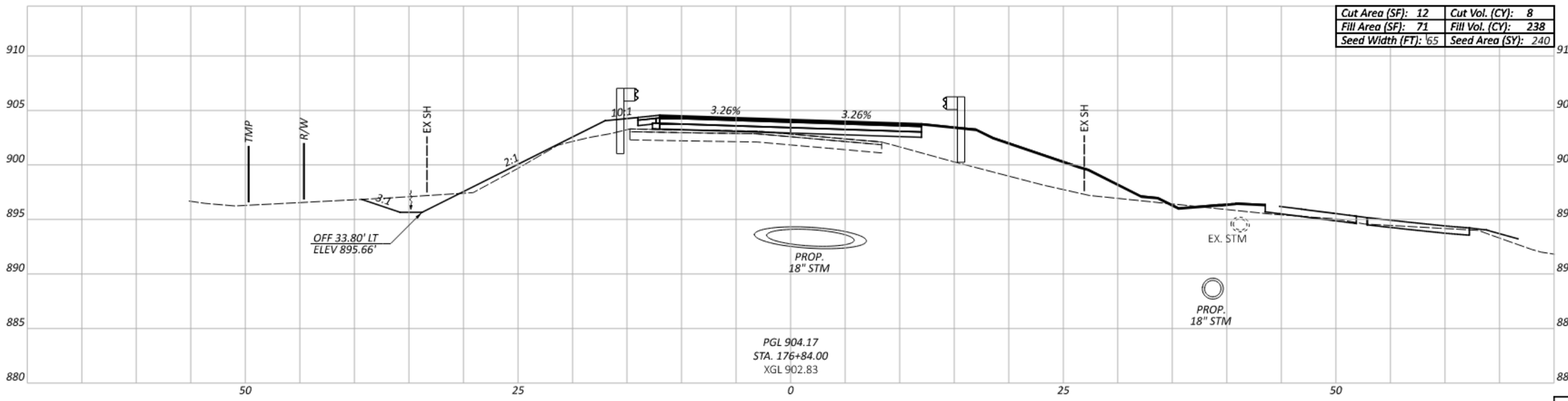
PROJECT ID
113793

SHEET P.24 TOTAL 49

FAI-CR55-3.319



Cut Area (SF): 34	Cut Vol. (CY): 14
Fill Area (SF): 66	Fill Vol. (CY): 41
Seed Width (FT): 56	Seed Area (SY): 108



Cut Area (SF): 12	Cut Vol. (CY): 8
Fill Area (SF): 71	Fill Vol. (CY): 238
Seed Width (FT): 65	Seed Area (SY): 240

Sheet Totals		
Seeding	Cut	Fill
348	22	279

CROSS SECTIONS - HAMBURG RD.
STA 176+84.00 TO STA 177+00.00

DESIGN AGENCY
DLZ

DESIGNER
EMH

REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.25 TOTAL 49

FAI-CR55-3.319

MODEL: CIP_Hamburg Road - 176+84.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:01 PM USER: ehimes
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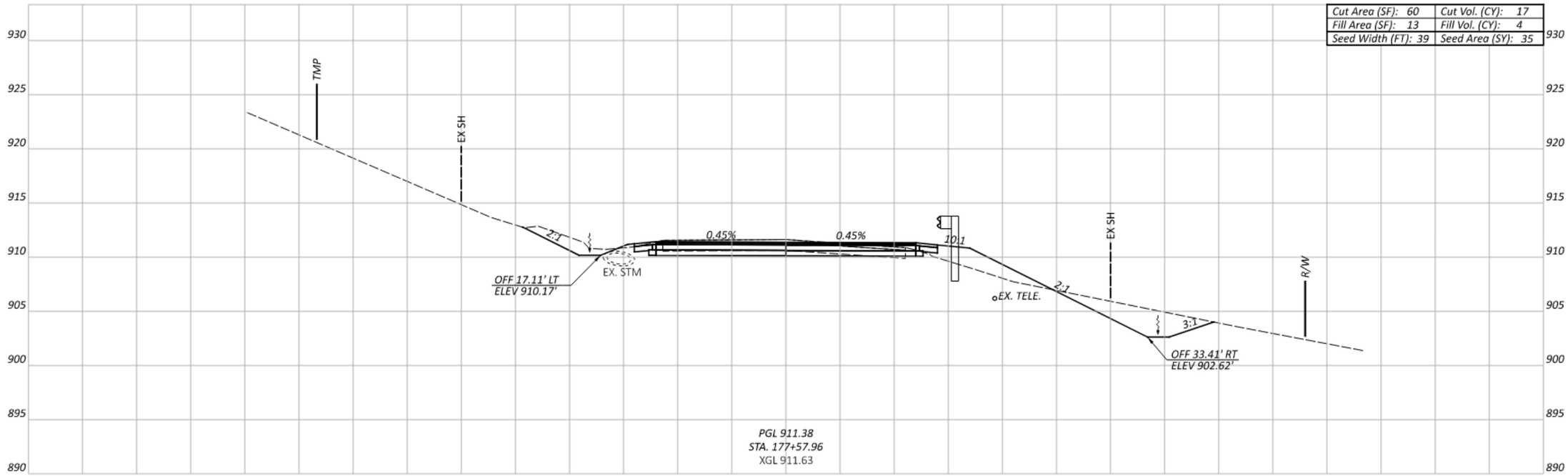
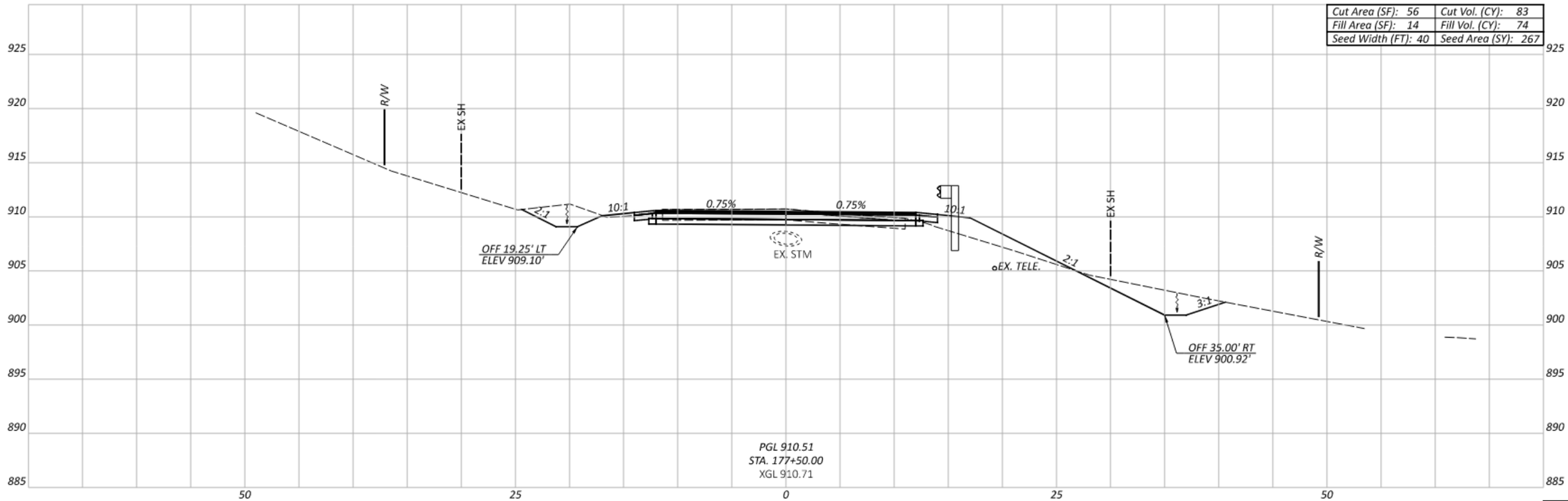




CROSS SECTIONS - HAMBURG RD.
STA 177+50.00 TO STA 177+57.96

DESIGN AGENCY
DLZ

DESIGNER
EMH

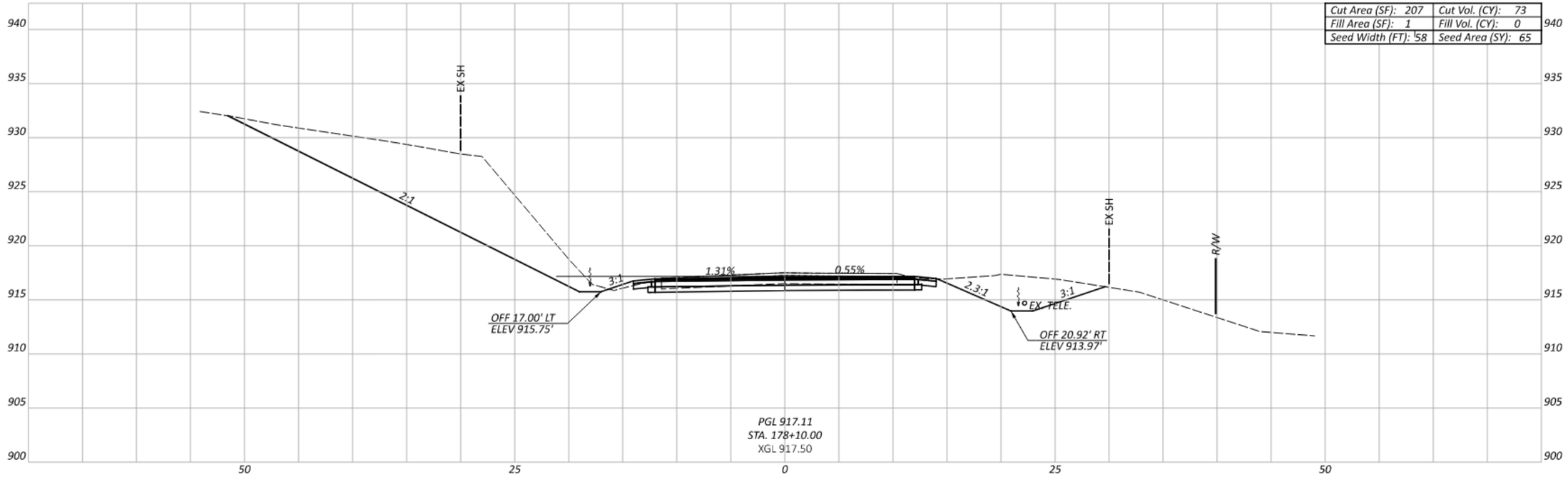
REVIEWER
CSR 02/10/25

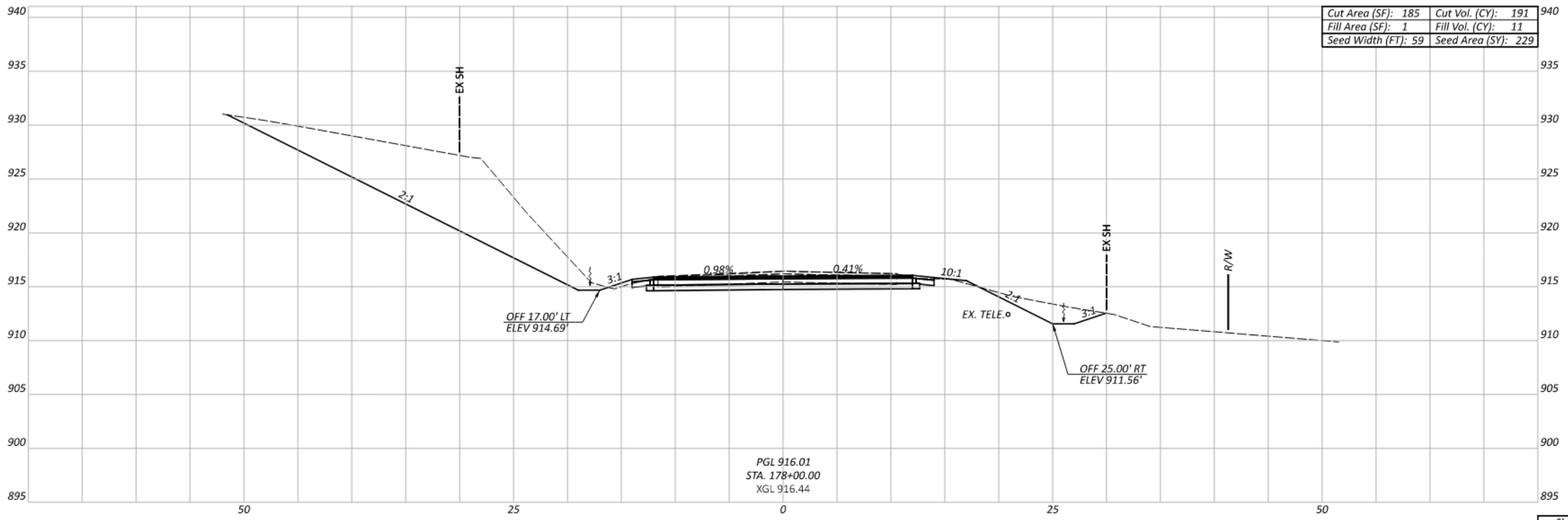
PROJECT ID
113793

Sheet Totals		
Seeding	Cut	Fill
302	100	78

SHEET P.26 TOTAL 49

FAI-CR55-3.319





CROSS SECTIONS - HAMBURG RD.
STA 178+00.00 TO STA 178+10.00

DESIGN AGENCY
DLZ

DESIGNER
EMH

REVIEWER
CSR 02/10/25

PROJECT ID
113793

Sheet Totals		
Seeding	Cut	Fill
294	264	11

SHEET P.27 TOTAL 49

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 178+00.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:13 PM USER: ehimes
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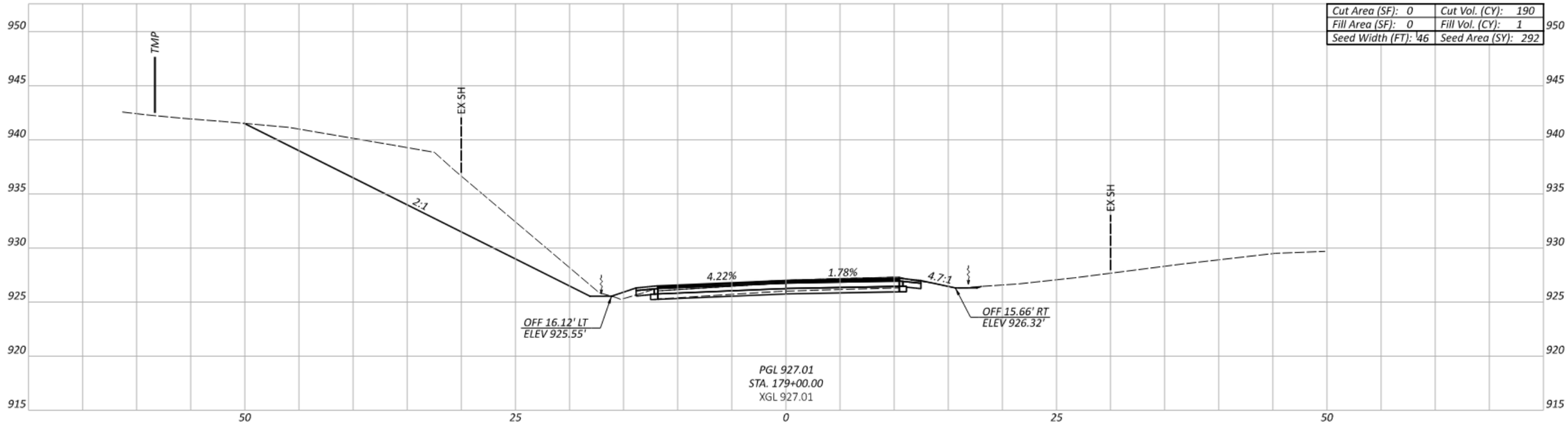
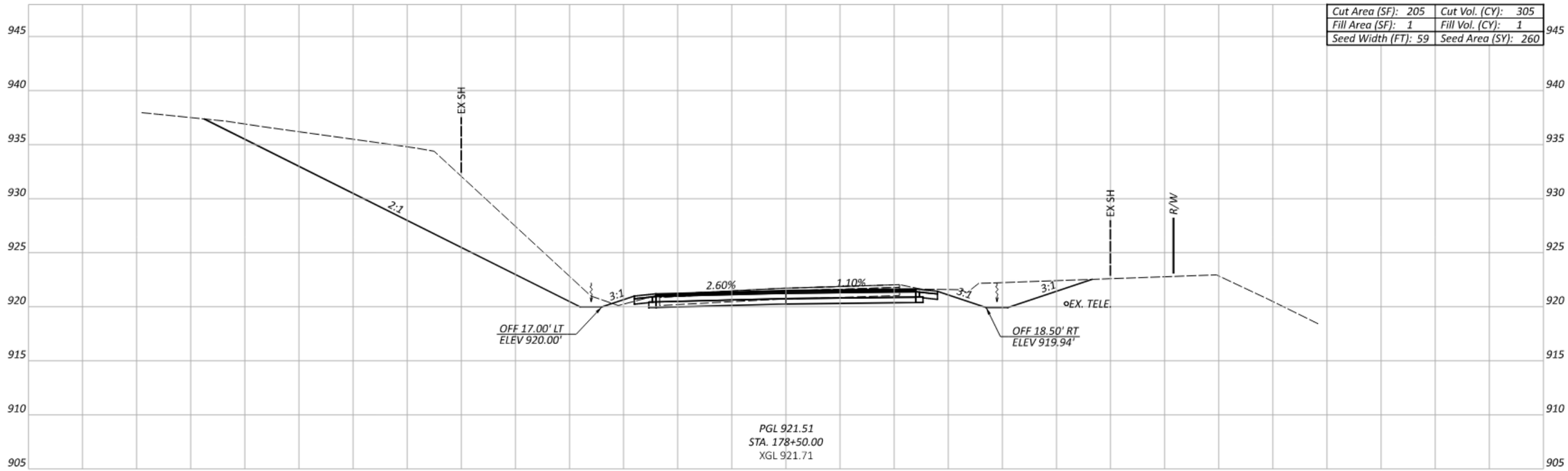


Cut Area (SF): 0	Cut Vol. (CY): 190
Fill Area (SF): 0	Fill Vol. (CY): 1
Seed Width (FT): 46	Seed Area (SY): 292



Cut Area (SF): 205	Cut Vol. (CY): 305
Fill Area (SF): 1	Fill Vol. (CY): 1
Seed Width (FT): 59	Seed Area (SY): 260

CROSS SECTIONS - HAMBURG RD.
STA 178+50.00 TO STA 179+00.00

Sheet Totals		
Seeding	Cut	Fill
552	495	2

DESIGN AGENCY
DLZ

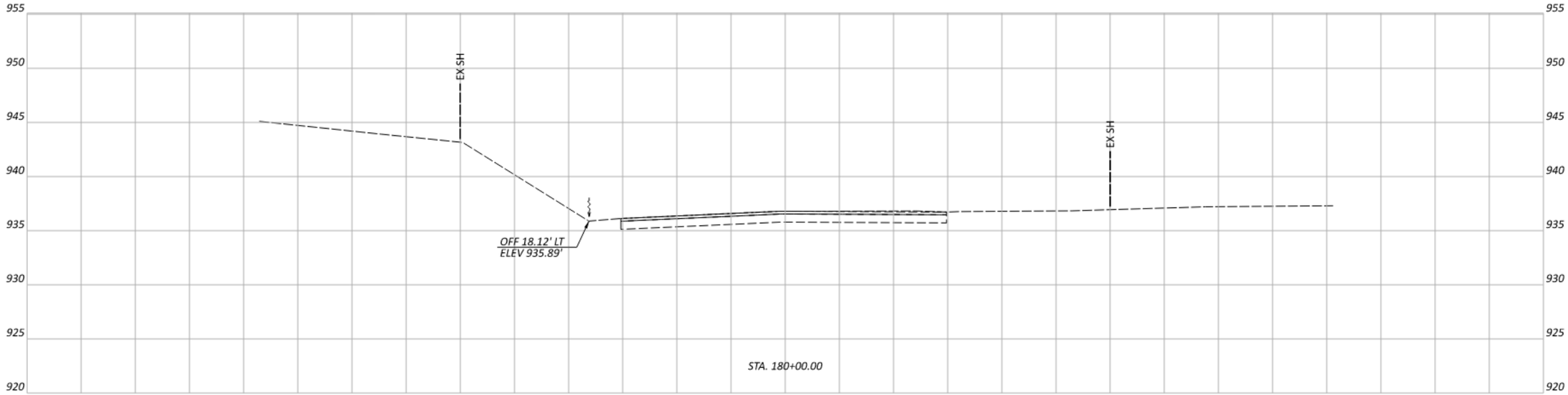
DESIGNER
EMH

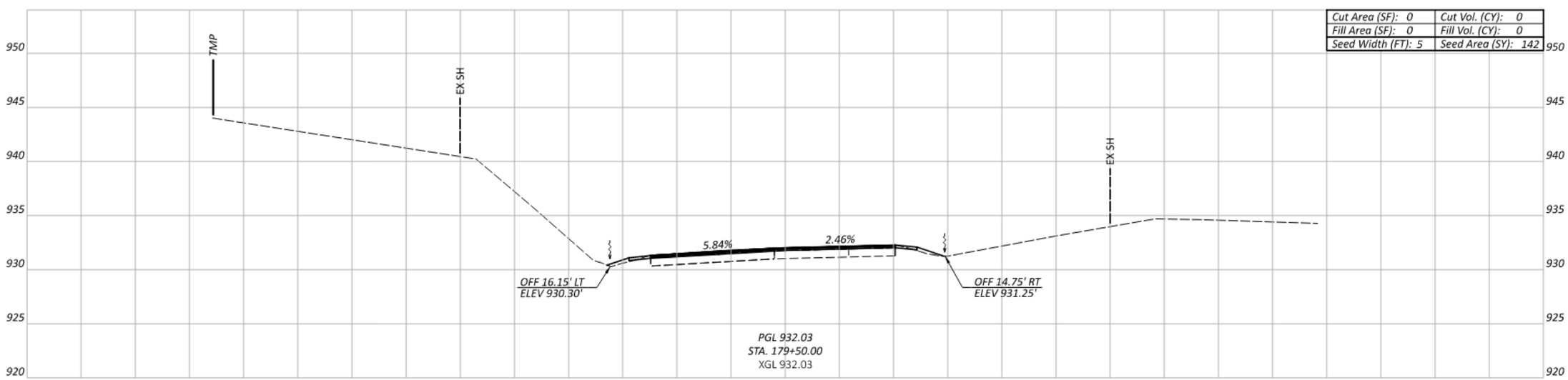
REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.28 | TOTAL 49

FAI-CR55-3.319





CROSS SECTIONS - HAMBURG RD.
STA 179+50.00 TO STA 180+00.00

FAI-CR55-3.319

MODEL: CLP_Hamburg Road - 179+50.00 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:21 PM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hamburg\120200\400-Engineering\Roadway\Sheets\120200_XS001.dgn

DESIGN AGENCY
DLZ

DESIGNER	EMH
REVIEWER	CSR 02/10/25
PROJECT ID	113793
SHEET	P.29
TOTAL	49

Sheet Totals		
Seeding	Cut	Fill
142	0	0

SUPERELEVATION TABLE

HAMBURG ROAD

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	
916.41		-0.18	-1.69%	10.67	167+50.00	916.59	10.62	-4.16%	-0.44		916.15	MATCH EX.
917.38	166667:1	-0.19	-1.71%	10.92	168+00.00	917.57	10.67	-1.71%	-0.18	5860:1	917.39	
918.40		-0.14	-1.26%	11.31	168+50.00	918.54	10.67	-1.24%	-0.13		918.41	
919.33		-0.19	-1.60%	12.00	169+00.00	919.52	12.00	-1.60%	-0.19		919.33	
920.41		-0.19	-1.60%	12.00	169+50.00	920.60	12.00	-1.60%	-0.19		920.41	
921.32		-0.19	-1.60%	12.00	169+97.88	921.51	12.00	-1.60%	-0.19		921.32	
921.35		-0.18	-1.52%	12.00	170+00.00	921.53	12.00	-1.60%	-0.19		921.34	
921.50		0.00	0.00%	12.00	170+39.88	921.50	12.00	-1.60%	-0.19		921.31	LEVEL
921.42	2625:1	0.05	0.39%	12.00	170+50.00	921.37	12.00	-1.83%	-0.22	4375:1	921.15	CROWN IN
920.36		0.39	2.29%	17.00	171+00.00	919.97	12.00	-2.97%	-0.36		919.61	
918.15		0.48	4.00%	12.00	171+44.88	917.67	12.00	-4.00%	-0.48		917.19	FULL
917.82		0.48	4.00%	12.00	171+50.00	917.34	12.00	-4.00%	-0.48		916.86	SUPER IN
913.96		0.48	4.00%	12.00	172+00.00	913.48	12.00	-4.00%	-0.48		913.00	
909.01		0.48	4.00%	12.00	172+50.00	908.53	12.00	-4.00%	-0.48		908.05	
904.43		0.48	4.00%	12.00	173+00.00	903.95	12.00	-4.00%	-0.48		903.47	
902.86		0.48	4.00%	12.00	173+20.51	902.38	12.00	-4.00%	-0.48		901.90	
900.92		0.48	4.00%	12.00	173+50.00	900.44	12.00	-4.00%	-0.48		899.96	
898.97		0.48	4.00%	12.00	173+87.75	898.49	12.00	-4.00%	-0.48		898.01	
898.46		0.48	4.00%	12.00	174+00.00	897.98	12.00	-4.00%	-0.48		897.50	
897.07		0.48	4.00%	12.00	174+50.00	896.59	12.00	-4.00%	-0.48		896.11	
896.82		0.56	4.00%	14.00	175+00.00	896.26	14.00	-4.00%	-0.56		895.70	
897.55		0.56	4.00%	14.00	175+50.00	896.99	14.00	-4.00%	-0.56		896.43	
899.34		0.56	4.00%	14.00	176+00.00	898.78	14.00	-4.00%	-0.56		898.22	
902.30		0.68	4.00%	17.00	176+50.00	901.62	12.00	-4.00%	-0.48		901.14	
903.26		0.60	4.00%	14.93	176+64.66	902.66	12.00	-4.00%	-0.48		902.18	FULL
905.85		0.32	2.65%	12.00	177+00.00	905.53	12.00	-2.65%	-0.32		905.21	SUPER OUT
910.60		0.09	0.75%	12.00	177+50.00	910.51	12.00	-0.75%	-0.09		910.42	
912.67	2540:1	0.00	0.00%	12.00	177+69.66	912.67	12.00	0.00%	0.00	3870:1	912.67	REVERSE
915.89		-0.12	-0.98%	12.00	178+00.00	916.01	12.00	0.41%	0.05		916.06	CROWN
921.20		-0.31	-2.60%	12.00	178+50.00	921.51	12.00	1.10%	0.13		921.64	
926.50		-0.51	-4.22%	12.00	179+00.00	927.01	12.00	1.78%	0.21		927.22	
931.30		-0.73	-5.84%	12.42	179+50.00	932.03	10.20	2.46%	0.25		932.28	MATCH EX.

SUPERELEVATION TABLE

LEFT SIDE					CENTERLINE CONTROL		RIGHT SIDE					REMARKS
EDGE ELEVATION	TRANSITION RATE	ELEVATION CORRECTION	CROSS SLOPE	WIDTH	STATION	PROFILE GRADE	WIDTH	CROSS SLOPE	ELEVATION CORRECTION	TRANSITION RATE	EDGE ELEVATION	

HAMBURG ROAD
SUPERELEVATION TABLES

DESIGN AGENCY
DLZ

DESIGNER
EMH

REVIEWER
CSR 10/06/24

PROJECT ID
113793

SHEET P.30 | TOTAL 49

FAI-CR55-3.319

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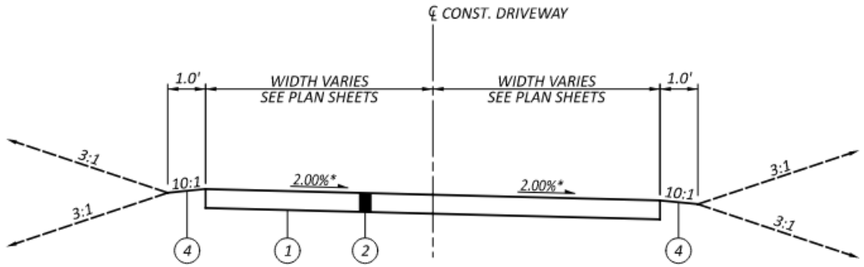
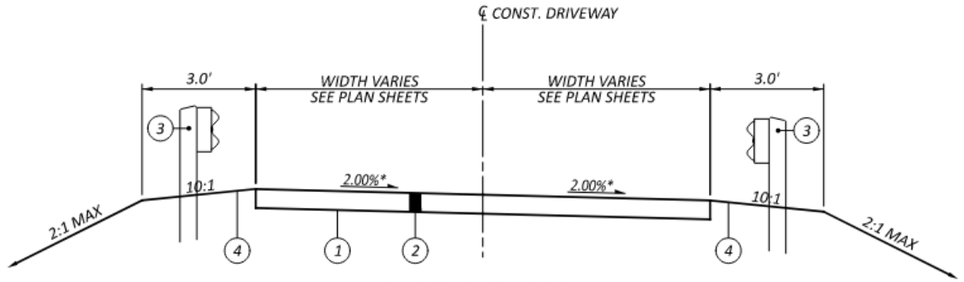


*NOTE : SLOPE VARIES APPROACHING INTERSECTION WITH HAMBURG ROAD AND MATCH LINE WITH EXISTING DRIVE

TYPICAL DRIVEWAY SECTION

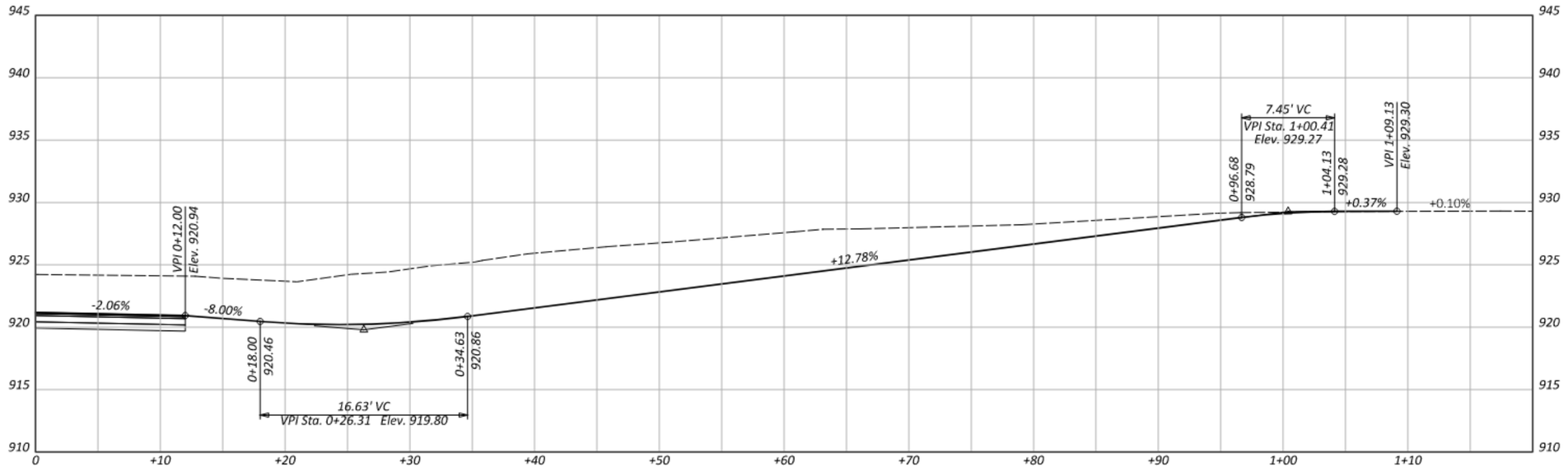


*NOTE : SLOPE VARIES APPROACHING INTERSECTION WITH HAMBURG ROAD AND MATCH LINE WITH EXISTING DRIVE

TYPICAL DRIVEWAY WITH GUARDRAIL SECTION

LEGEND

1. ITEM 204 - SUBGRADE COMPACTION
2. ITEM 304 - 8" AGGREGATE BASE
3. ITEM 606 - GUARDRAIL, TYPE MGS
4. ITEM 659 - SEEDING AND MULCHING



DRIVEWAY PROFILE - STA 170+60.00 RT

DRIVEWAY PROFILES

FAI-CR55-3.319

MODEL: Driveway Profile SH1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:27 PM USER: ehimes
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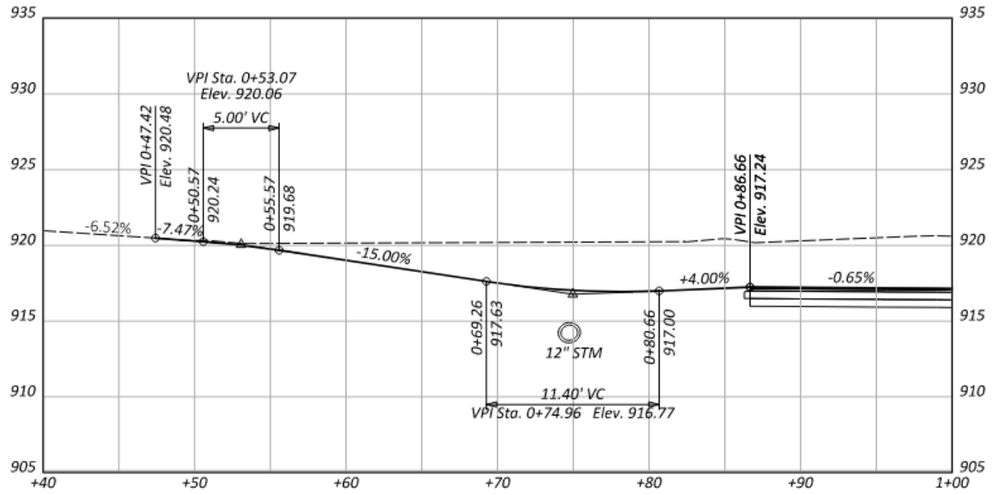
DESIGN AGENCY
DLZ

DESIGNER
EMH

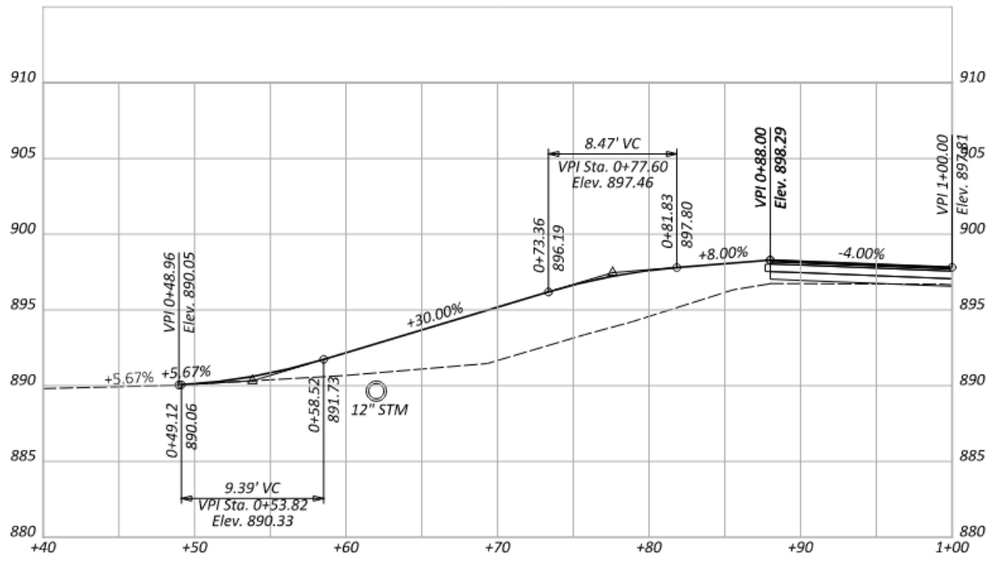
REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.31 TOTAL 49



DRIVEWAY PROFILE - STA 171+52.91 LT



DRIVEWAY PROFILE - STA 174+04.61 LT

DRIVEWAY PROFILES

DESIGN AGENCY
DLZ

DESIGNER
EMH

REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.32 TOTAL 49

FAI-CR55-3.319

MODEL: Driveway Profile SH2 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:28 PM USER: ehimes
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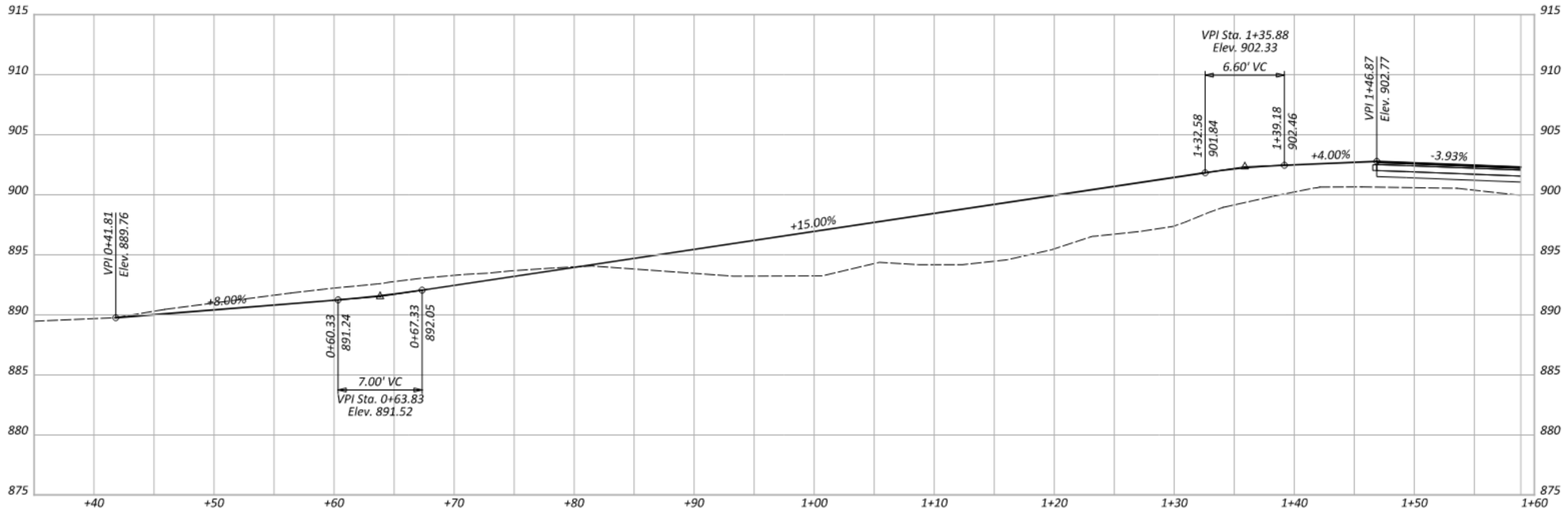
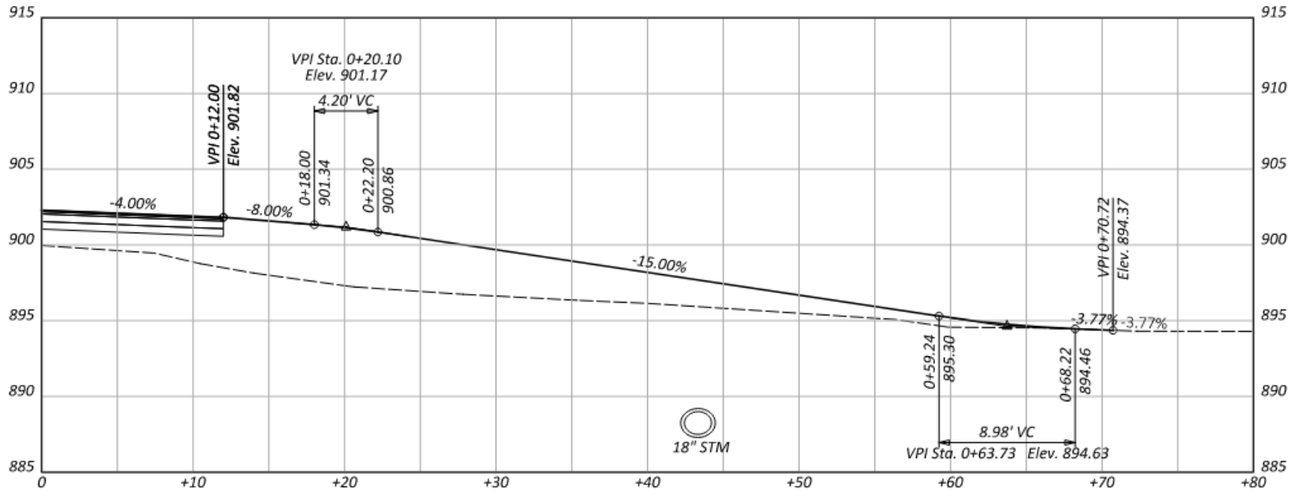


DRIVEWAY PROFILE - STA 176+60.00 LT



DRIVEWAY PROFILE - STA 176+60.00 RT

DRIVEWAY PROFILES

FAI-CR55-3.319

MODEL: Driveway Profile SH3 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:30 PM USER: rhimes
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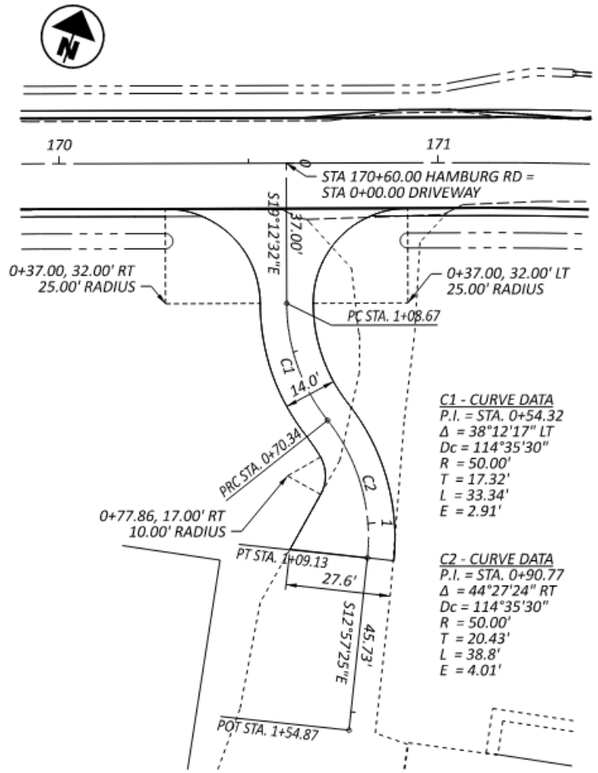
DESIGN AGENCY
DLZ

DESIGNER
EMH

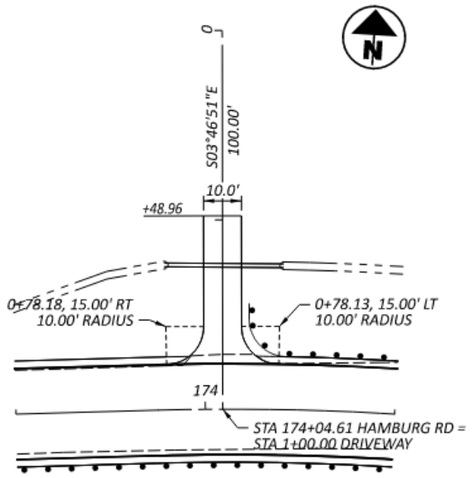
REVIEWER
CSR 02/10/25

PROJECT ID
113793

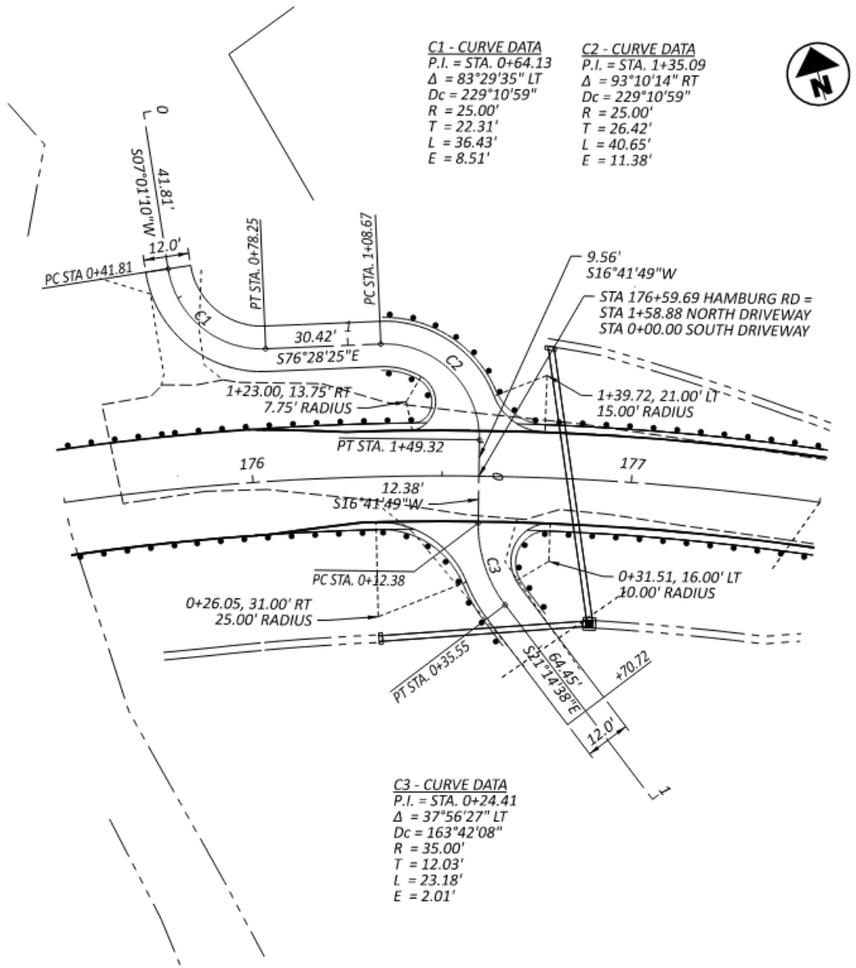
SHEET P.33 | TOTAL 49



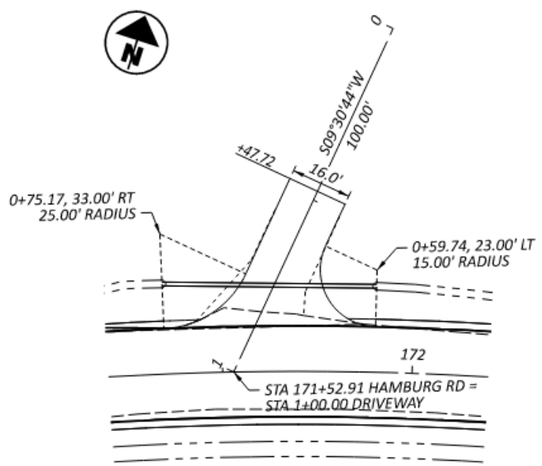
DRIVEWAY DETAIL - STA 170+60.00



DRIVEWAY DETAIL - STA 174+04.61



DRIVEWAY DETAIL - STA 176+59.69



DRIVEWAY DETAIL - STA 171+52.91

HORIZONTAL SCALE IN FEET
0 10 20 40

DRIVEWAY DETAILS

DESIGN AGENCY
DLZ

DESIGNER
EMH
REVIEWER
CSR 02/10/25
PROJECT ID
113793
SHEET P.33A
TOTAL 49

FAI-CR55-3.319

MODEL: Driveway Profile SH4 - Plan 1 [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:31 PM USER: ehimes
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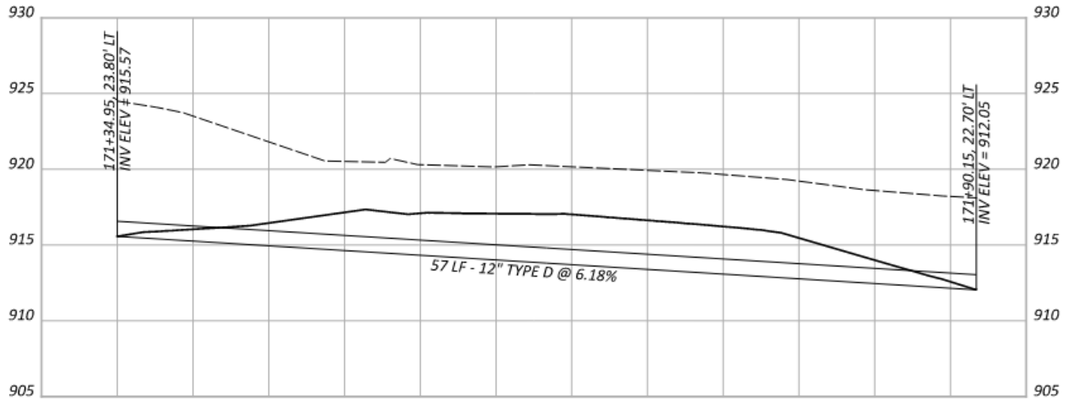
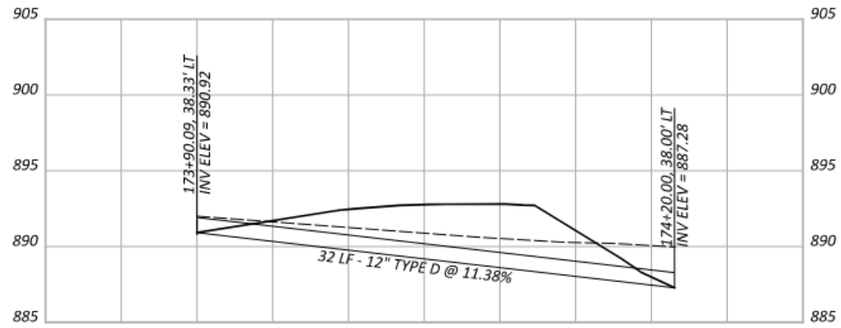
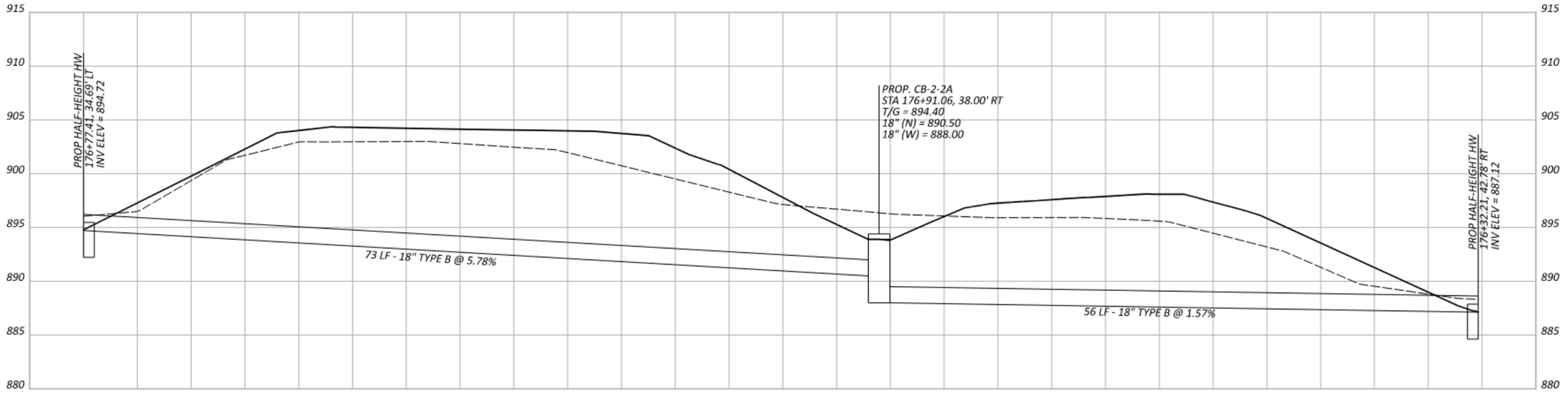


DRIVE PIPE PROFILE - STA 171+35 TO STA 171+90 LT



DRIVE PIPE PROFILE - STA 173+90 TO STA 174+20 LT



DRAINAGE RUN PROFILE - STA 176+77 LT TO STA 176+32 RT

DRAINAGE PROFILES

FAI-CR55-3.319

MODEL: Drainage Profiles [Sheet] PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:35 PM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Drainage\Sheets\120200_DF001.dgn

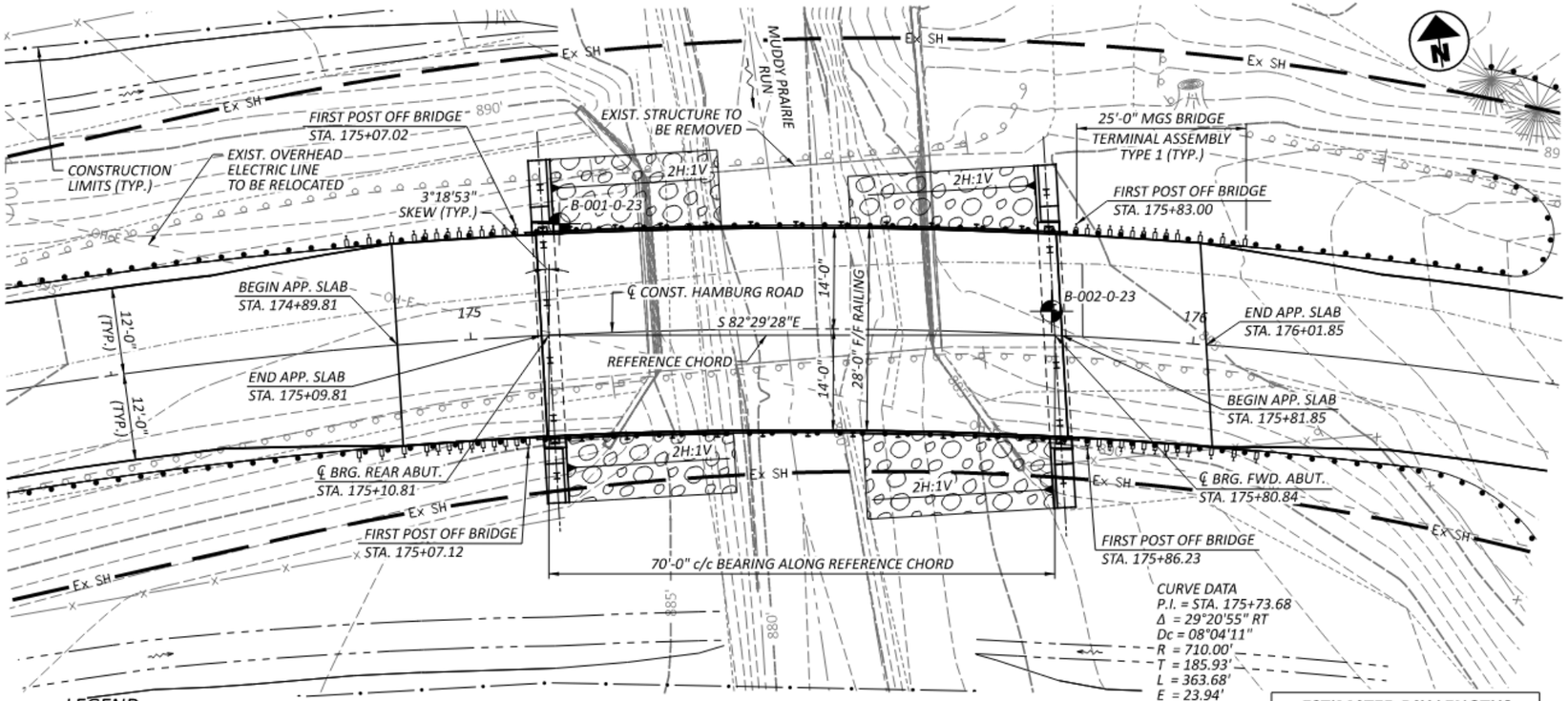
DESIGN AGENCY
DLZ

DESIGNER
EMH

REVIEWER
CSR 02/10/25

PROJECT ID
113793

SHEET P.34 | TOTAL 49



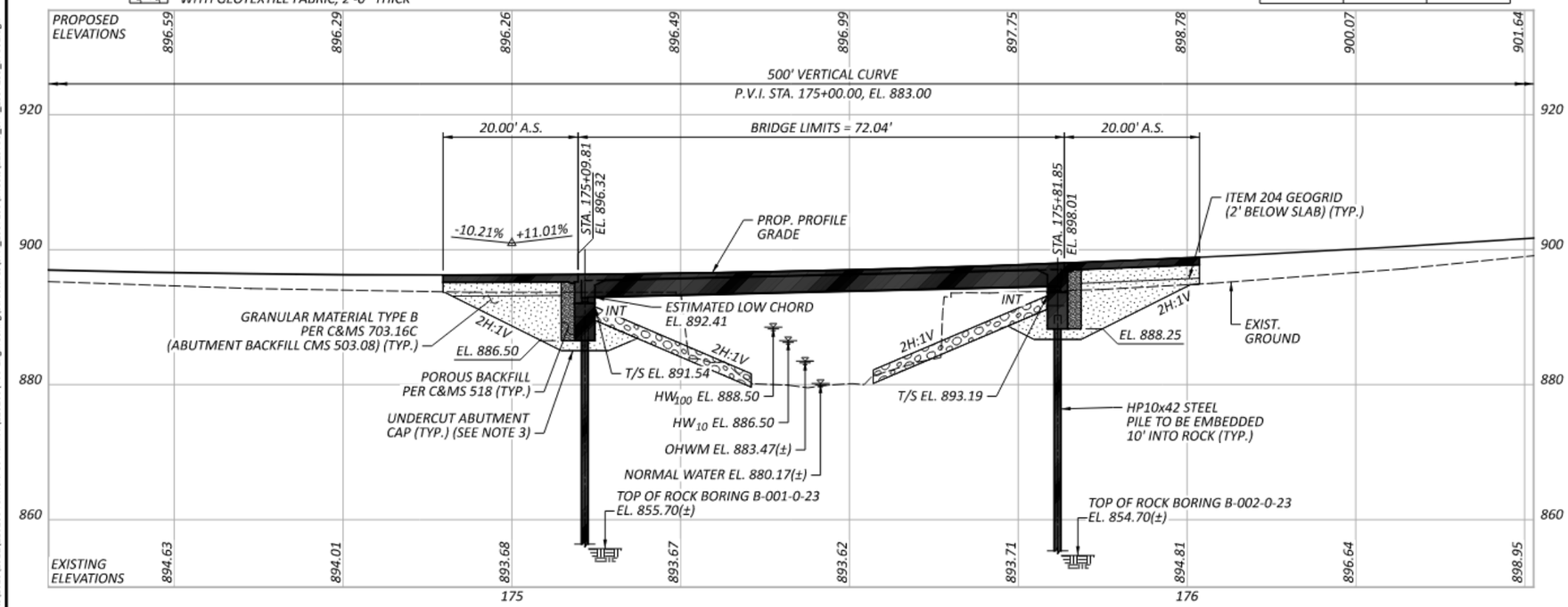
PLAN

LEGEND

SOIL BORING LOCATION

ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC, 2'-0" THICK

ESTIMATED PAY LENGTHS		
LOCATION	PILE TYPE	LENGTH
REAR ABUT.	HP10x42	45'
FWD. ABUT.	HP10x42	50'



PROFILE ALONG ℄ CONSTRUCTION HAMBURG ROAD

BENCHMARK DATA

BENCHMARK "A": IRON PIN SET EAST OF 4089 HAMBURG ROAD
STA. 180+13.54, 19.15' RT., EL. 937.43

BENCHMARK "B": CHISELED "X" ON MISC. UTILITY LID EAST OF 4089 HAMBURG ROAD DRIVEWAY
STA. 180+78.72, 27.06' RT., EL. 942.46

NOTES

1. EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
2. FOR ADDITIONAL SURVEY CONTROL INFORMATION, SEE SHEET 4 OF 44.
3. CONTRACTOR SHALL UNDERCUT ABUTMENT CAPS 2'-0" MINIMUM AND FILL WITH CMS 503.08 BACKFILL MATERIAL UP TO BOTTOMS OF ABUTMENT CAPS. EMBANKMENT SLOPES SHALL BE 2H:1V OR FLATTER, BENCHED INTO EXISTING, AND PLACED IN 6" LIFTS.
4. WETLANDS ARE NOT SHOWN FOR CLARITY. FOR LOCATIONS OF WETLANDS, SEE THE ROADWAY PLAN AND PROFILE SHEET 6 OF 44.

HYDRAULIC DATA

Q_{10} = 1,150 CFS
EXIST. STRUCTURE:
V_{10} = 6.52 FPS
HW_{10} = 886.57
V_{100} = 9.64 FPS
HW_{100} = 888.81
DRAINAGE AREA = 7.24 SQ. MI.
EXIST. LOW CHORD EL. 890.8(±)
PROP. LOW CHORD EL. 892.41 (AT REAR ABUTMENT)
PROP. STRUCTURE CLEARS 10-YEAR FLOW BY 5.91'
PROP. STRUCTURE IS CLEARS 100-YEAR FLOW BY 3.91'

Q_{100} = 2,280 CFS
PROP. STRUCTURE:
V_{10} = 6.24 FPS
HW_{10} = 886.50
V_{100} = 8.34 FPS
HW_{100} = 888.50

DESIGN TRAFFIC

CURRENT ADT (2024) = 805
CURRENT ADTT (2024) = NA
DIRECTIONAL DISTRIBUTION = 50%
DESIGN ADT (2044) = 965
DESIGN ADTT (2044) = NA

EXISTING STRUCTURE

TYPE: SINGLE-SPAN, STEEL BEAM BRIDGE WITH TIMBER DECK AND ASPHALT WEARING SURFACE
SPANS: 39' (±) FACE/FACE ABUTMENTS
ROADWAY: 28'-0"(±) FACE/FACE GUARDRAIL
LOADING: HS 20
SKEW: NONE
WEARING SURFACE: ASPHALT CONCRETE
APPROACH SLABS: NONE
ALIGNMENT: 29°20'55"(±) CURVE RIGHT
SUPERELEVATION: 0.0357(±) FT/FT
STRUCTURE FILE NUMBER: 2337258
DATE BUILT: 1985
DISPOSITION: EXISTING BRIDGE TO BE REPLACED

PROPOSED STRUCTURE

TYPE: SINGLE SPAN GALVANIZED STEEL BEAMS WITH REINFORCED CONCRETE DECK AND INTEGRAL ABUTMENTS
SPANS: 70'-0" c/c BEARINGS ALONG REFERENCE CHORD
ROADWAY: 28'-0" FACE/FACE RAILING
LOADING: HL-93
FUTURE WEARING SURFACE: 0.060 KSF
SKEW: 3°18'53" FROM REFERENCE CHORD
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 20-0" LONG, 13" THICK (AS-1-15)
ALIGNMENT: 29°20'55" CURVE RIGHT
SUPERELEVATION: 0.0400 FT/FT
DECK AREA: 2,017 SF
COORDINATES: LATITUDE 39°38'47.08" N
LONGITUDE 82°41'00.30" W

SITE PLAN
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN	
2337259	
DESIGN AGENCY	
DLZ	
DESIGNER	CHECKER
JDA/JRL	MDP
REVIEWER	
MJL 10/25/24	
PROJECT ID	
113793	
SUBSET	TOTAL
1	15
SHEET	TOTAL
P.35	49

FAI-CR55-3.319

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REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-15	REVISED	01/20/23
DS-1-92	REVISED	07/15/22
GSD-1-19	REVISED	07/19/24
ICD-1-20	REVISED	01/19/24
TST-1-99	REVISED	01/15/21

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION:

800	DATED	01/16/26

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

VEHICULAR LIVE LOAD: HL-93
FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ. FT.

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)
CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

CONCRETE REINFORCEMENT:
EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD STRENGTH 60 KSI

STRUCTURAL STEEL - ASTM A709 GRADE 50, GALVANIZED PER CMS 711.02 -
YIELD STRENGTH 50 KSI

STEEL H-PILES - ASTM A572 - YIELD STRENGTH 50 KSI

MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

SCOUR ELEVATIONS:

THE DESIGN FLOOD AND CHECK FLOOD SCOUR ELEVATIONS ARE PROVIDED BELOW:

	REAR ABUT.	FWD. ABUT.
DESIGN FLOOD	878.56	880.53
CHECK FLOOD	877.14	879.11

ITEM 203 - GRANULAR MATERIAL TYPE B, AS PER PLAN:

PLACE AND COMPACT EMBANKMENT MATERIAL IN FRONT OF AND BEHIND ABUTMENTS SO THAT THE DIFFERENCE IN ELEVATIONS AT THE SAME ABUTMENT DO NOT EXCEED 2 FEET PRIOR TO PERMANENTLY FASTENING BEARING DEVICES PER CMS 516.07.

PILE DRIVING CONSTRAINTS:

PRIOR TO DRIVING PILES, CONSTRUCT THE SPILL THROUGH SLOPES AND THE BRIDGE APPROACH EMBANKMENT BEHIND THE ABUTMENTS UP TO THE LEVEL OF THE SUBGRADE ELEVATION FOR A MINIMUM DISTANCE OF 50 FEET BEHIND EACH ABUTMENT. DO NOT BEGIN THE EXCAVATION FOR THE ABUTMENT FOOTINGS AND THE INSTALLATION OF THE ABUTMENT PILES UNTIL AFTER THE ABOVE REQUIRED EMBANKMENT HAS BEEN CONSTRUCTED AND A 30 CALENDAR DAY WAITING PERIOD HAS ELAPSED. THE ENGINEER MAY ADJUST THE LENGTH OF THE WAITING PERIOD BASED ON SETTLEMENT PLATFORM READINGS. AFTER THE SPECIFIED WAITING PERIOD HAS ELAPSED, DRIVE THE ABUTMENT PILES TO THE UBV OR TO REFUSAL ON BEDROCK.

ITEM 507 – PREBORED HOLES, AS PER PLAN:

PREBORE HOLES SHALL EXTEND AT LEAST 10-FT INTO BEDROCK AT EACH PILE. THE DIAMETER OF THE PREBORED HOLE SHALL BE A MINIMUM OF 2-IN LARGER THAN THE DIAGONAL DIMENSION OF THE PILE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AN OPEN HOLE; HOWEVER, IT IS ANTICIPATED THAT TEMPORARY CASING WILL BE NECESSARY ABOVE THE TOP OF ROCK TO MAINTAIN AN OPEN HOLE. THE PREBORED HOLES SHALL BE CLEAN AND FREE OF ALL DELETERIOUS MATERIALS PRIOR TO BACKFILLING OPERATIONS. BACKFILL THE VOID BETWEEN THE PILE AND THE PREBORED HOLE WITH CLASS QC MISC. CONCRETE UP TO THE TOP OF ROCK ELEVATION. ABOVE THE TOP OF ROCK, BACKFILL THE VOID TO THE BOTTOM OF FOOTING ELEVATION WITH GRANULAR MATERIAL CONFORMING TO 703.11, STRUCTURAL BACKFILL TYPE 2, EXCEPT 100 PERCENT OF THE MATERIAL SHALL PASS THROUGH A ¾-INCH SIEVE. PAYMENT FOR THE PREBORED HOLES INCLUDES THE BACKFILL MATERIAL.

ITEM 507 – STEEL PILES HP10X42, FURNISHED, AS PER PLAN:

THIS WORK CONSISTS OF FURNISHING AND PLACING STEEL PILES INTO PREBORED HOLES. PLACE EACH PILE VERTICALLY WITHIN THE HOLE SO IT IS NOT INCLINED MORE THAN ONE INCH BETWEEN TOP AND BOTTOM. SUPPORT THE PILE SO THAT IT DOES NOT MOVE DURING PLACEMENT OF BACKFILL MATERIAL.

THE TOTAL FACTORED LOAD IS 219 KIPS PER PILE FOR THE ABUTMENT PILES. THE ABUTMENT PILES INCLUDE AN ADDITIONAL 2 KIPS OF FACTORED LOAD PER PILE TO ACCOUNT FOR POSSIBLE DOWNDRAG LOADING.

ABUTMENT PILES:
HP10X42 PILES 55-FT LONG, ORDER LENGTH

PILE SPLICES:

IN LIEU OF USING THE FULL PENETRATION BUTT WELDS SPECIFIED IN CMS 507.09 TO SPLICE STEEL H-PILES, THE CONTRACTOR MAY USE A MANUFACTURED H-PILE SPLICER. FURNISH SPLICERS FROM THE FOLLOWING MANUFACTURER:

ASSOCIATED PILE AND FITTING CORPORATION
8 WOOD HOLLOW RD. PLAZA 1
PARSIPPANY, NEW JERSEY 07054

INSTALL AND WELD THE SPLICER TO THE PILE SECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN ASSEMBLY PROCEDURE SUPPLIED TO THE ENGINEER BEFORE THE WELDING IS PERFORMED.

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN:

GALVANIZING OF ALL STRUCTURAL STEEL SHALL BE INCLUDED FOR PAYMENT WITH THIS ITEM. ALL STRUCTURAL STEEL, INCLUDING BOLTS, NUTS, WASHERS, AND SIMILAR THREADED FASTENERS, SHALL BE GALVANIZED IN ACCORDANCE WITH CMS 711.02, EXCEPT THAT THE BOLTS, NUTS, WASHERS, AND SIMILAR THREADED FASTENERS MUST BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH ASTM A153 OR ASTM B695, CLASS 50. MECHANICALLY GALVANIZED NUTS SHALL BE LUBRICATED WITH A LUBRICANT CONTAINING VISIBLE DYE. NUTS FOR MECHANICALLY GALVANIZED FASTENERS SHALL BE OVERLAPPED TO BE THE MINIMUM AMOUNT REQUIRED FOR FASTENER ASSEMBLY. ALL DAMAGED GALVANIZING MUST BE REPAIRED IN ACCORDANCE WITH ASTM A780. THE COUNTY WILL NOT ALLOW AEROSOL SPRAY APPLICATIONS OF PAINTS CONTAINING ZINC DUST PER CMS 711.02. BRUSH-ON APPLICATIONS OF ZINC-RICH PAINT CONTAINING AT LEAST 95% METALLIC ZINC, BY WEIGHT IN THE DRY FILM, ARE ACCEPTABLE.

AREAS OF FIELD CONNECTIONS MUST HAVE A UNIFORM GALVANIZED COATING THICKNESS FREE OF LOCAL EXCESSIVE ROUGHNESS WHICH WOULD PREVENT SPLICE PLATES, BEARINGS, OR OTHER FIELD CONNECTIONS FROM MAKING INTIMATE CONTACT.

FAYING SURFACES OF THE BOLTED SPLICES MUST BE ROUGHENED IN THE SHOP AFTER GALVANIZING BY HAND WIRE BRUSHING. POWER WIRE BRUSHING IS NOT PERMITTED. ALL FIELD SPLICE BOLTS HOLES MUST BE FREE OF ZINC BUILD UP. AFTER GALVANIZING, EACH HOLE MUST BE CHECKED IN THE SHOP BY USING A DRIFT PIN WITH A DIAMETER 1/16" GREATER THAN THE DIAMETER OF THE BOLT TO BE USED IN THAT HOLE. CONSIDERATION WILL BE GIVEN TO OTHER METHODS OF TREATING THE FAYING SURFACES IF A WRITTEN REQUEST IS SUBMITTED TO THE OFFICE OF STRUCTURE ENGINEERING (OSE) IN ACCORDANCE WITH CMS 108.05.

INSPECTION OF THE ROUGHENING OF THE FAYING SURFACES AND CHECKING OF HOLES WITH DRIFT PINS MUST BE PERFORMED BY THE QCS (QUALITY CONTROL SPECIALIST) REQUIRED UNDER CMS SECTION 514. ACCEPTANCE OF THE FAYING SURFACES AND HOLES SHALL BE DOCUMENTED BY THE QCS.

ITEM 625 - STRUCTURE GROUNDING SYSTEM:

INSTALL A STRUCTURE GROUNDING SYSTEM PER STANDARD DRAWING HL-50.21. PAYMENT WILL BE MADE UNDER ITEM 625 - STRUCTURE GROUNDING SYSTEM. A QUANTITY OF 1 EACH HAS BEEN CARRIED TO THE ESTIMATED QUANTITIES.

DECK PLACEMENT DESIGN ASSUMPTIONS:

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.20 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103 INCHES.

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA BEAM TO THE FACE OF THE SAFETY HANDRAIL OF 65 INCHES.

STRUCTURE GENERAL NOTES - 1
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259
DESIGN AGENCY DLZ
DESIGNER JAM | CHECKER MDP
REVIEWER MJL 10/25/24
PROJECT ID 113793
SUBSET 2 | TOTAL 15
SHEET P.36 | TOTAL 49

FAI-CR55-3.319

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OEPA NOTIFICATION OF DEMOLITION AND RENOVATION:

AN ASBESTOS SURVEY FOR THE FAI-CR55-3.28 BRIDGE SCHEDULED FOR DEMOLITION WORK WAS CONDUCTED BY A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST. A COPY OF THE ASBESTOS SURVEY REPORT FOR THE BRIDGE HAS BEEN INCLUDED IN THE PLAN PACKAGE FOR THIS PROJECT. THE ASBESTOS SURVEY REPORT DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED BY THE ASBESTOS HAZARD EVALUATION SPECIALIST, HAS BEEN INCLUDED AT THE END OF THE ASBESTOS SURVEY REPORT. THE CONTRACTOR SHALL COMPLETE THE NECESSARY SECTIONS OF THE FORM AND SUBMIT IT WITH A COPY OF THE ASBESTOS SURVEY REPORT TO:

ASBESTOS PROGRAM
OHIO EPA, DAPC
PO BOX 1049
COLUMBUS, OH 43216-1049

AT LEAST 10 WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION WORK. NOTIFICATION CAN BE MADE EITHER BY HARD COPY OR ELECTRONICALLY. ADDITIONAL INFORMATION CAN BE FOUND HERE: http://epa.ohio.gov/dapc/atu/asbestos.aspx#179575188-project-notification

BASIS FOR PAYMENT: THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENTS FOR THIS WORK SHALL BE INCIDENTAL TO THE ITEM 202 STRUCTURE REMOVAL ITEM(S) IN THE PLAN.

PLAN ABBREVIATIONS:

@	= AT
ABUT.	= ABUTMENT
ADT	= AVERAGE DAILY TRAFFIC
ADTT	= AVERAGE DAILY TRUCK TRAFFIC
APP.	= APPROACH
A.S.	= APPROACH SLAB
BOT.	= BOTTOM
BRG.	= BEARING
B.T.A.	= BRIDGE TERMINAL ASSEMBLY
c/c	= CENTER-TO-CENTER
℄, CL	= CENTERLINE
CALC.	= CALCULATED
CHKD.	= CHECKED
C.J.	= CONSTRUCTION JOINT
CLR.	= CLEARANCE
CMS	= CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONST.	= CONSTRUCTION
CONT.	= CONTINUED
CVN	= CHARPY V-NOTCH
DIA.	= DIAMETER
DWG.	= DRAWING
E.F.	= EACH FACE
EL.	= ELEVATION
EXIST.	= EXISTING
F.A.	= FORWARD ABUTMENT
F/F	= FACE-TO-FACE
F.S.	= FIELD SPLICE
FWD.	= FORWARD
FWS	= FUTURE WEARING SURFACE
HW	= HIGH WATER
INC.	= INCREMENT
INT	= INTEGRAL
MAX.	= MAXIMUM
MIN.	= MINIMUM
NO.	= NUMBER
N.P.C.P.P.	= NON-PERFORATED CORRUGATED PLASTIC PIPE
OHWM	= ORDINARY HIGH WATER MARK
OPT.	= OPTIONAL
ℙ	= PLATE
P.C.P.P.	= PERFORATED CORRUGATED PLASTIC PIPE
PEJF	= PREFORMED EXPANSION JOINT FILLER
PROP.	= PROPOSED
P.V.I.	= POINT OF VERTICAL INTERSECTION
R.A.	= REAR ABUTMENT
RD.	= ROAD
REF.	= REFERENCE
RT.	= RIGHT
SER.	= SERIES
SPA.	= SPACED
STA.	= STATION
STD.	= STANDARD
TYP.	= TYPICAL

STRUCTURE GENERAL NOTES - 2
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259
DESIGN AGENCY DLZ
DESIGNER JAM | CHECKER MDP
REVIEWER MJL 10/25/24
PROJECT ID 113793
SUBSET 3 | TOTAL 15
SHEET P.37 | TOTAL 49

FAI-CR55-3.319

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ESTIMATED QUANTITIES

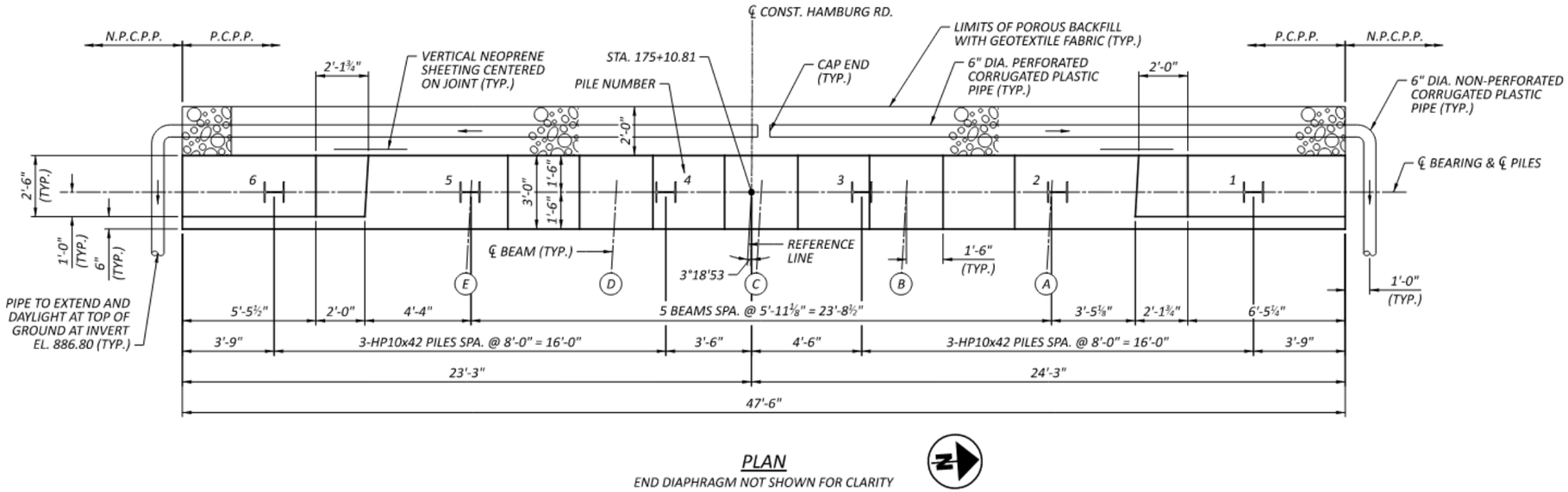
CALC. BY: JRL DATE: 3/3/25
CHKD. BY: MDP DATE: 3/3/25

FUNDING __/__/__	ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	REAR ABUTMENT	FORWARD ABUTMENT	SUPER-STRUCTURE	GENERAL	REF. SHEET NUMBER
	202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN				LS	
	202	23500	122	SY	WEARING COURSE REMOVED			122		
	203	35111	628	CY	GRANULAR MATERIAL, TYPE B, AS PER PLAN	303	325			
	204	51000	237	SY	GEOGRID	114	123			
	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING				LS	
	503	21100	178	CY	UNCLASSIFIED EXCAVATION	85	93			
	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION				LS	
	507	00100	630	FT	STEEL PILES HP10X42, FURNISHED	300	330			
	507	92200	570	FT	PREBORED HOLES	270	300			
	509	10000	26,517	LB	EPOXY COATED STEEL REINFORCEMENT	4,380	4,389	17,748		
	511	34444	87	CY	CLASS QC2 CONCRETE, BRIDGE DECK			87		
	511	43510	68	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	34	34			
	512	10100	91	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	15	16	60		
	513	10221	82,900	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN			82,900		2 / 15
	513	20000	1,260	EACH	WELDED STUD SHEAR CONNECTORS			1,260		
	516	13200	52	SF	½" PREFORMED EXPANSION JOINT FILLER			52		
	516	13600	54	SF	1" PREFORMED EXPANSION JOINT FILLER			52	2	
	516	13900	42	SF	2" PREFORMED EXPANSION JOINT FILLER			42		
	516	14014	85	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL			85		
	516	44001	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN			10		8 / 15
					(LOAD PLATE 11.5"x14"x1.50", NEOPRENE 10.5"x13"x1.69")					
	517	70000	150	FT	RAILING (TWIN STEEL TUBE)			150		
	518	21200	58	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	29	29			
	SPECIAL	51822300	167	FT	STEEL DRIP STRIP			167		
	518	40000	96	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	48	48			
	518	40010	54	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	28	26			
	526	15000	124	SY	REINFORCED CONCRETE APPROACH SLABS (T=13")				124	
	526	90010	56	FT	TYPE A INSTALLATION				56	
	601	32204	193	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC	91	102			
	625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1	2 / 15

ESTIMATED QUANTITIES
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

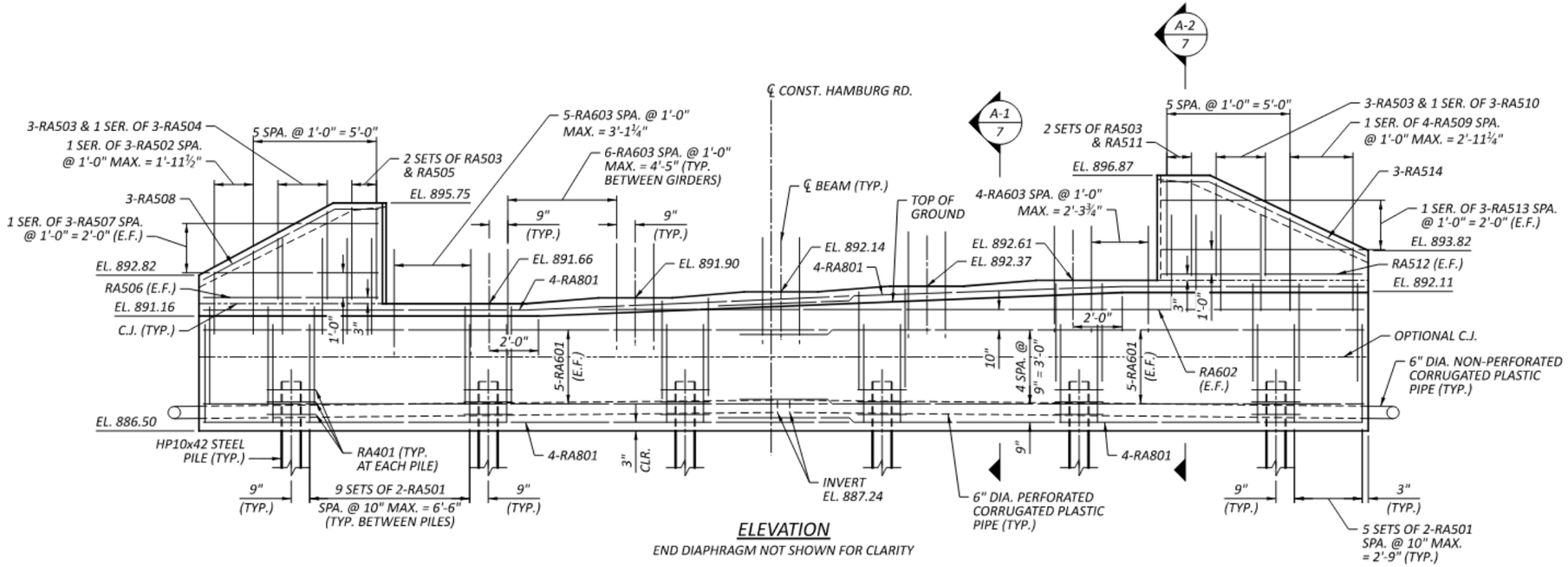
SFN 2337259
DESIGN AGENCY DLZ
DESIGNER JAM | CHECKER MDP
REVIEWER MJL 10/25/24
PROJECT ID 113793
SUBSET 4 | TOTAL 15
SHEET P.38 | TOTAL 49

FAI-CR55-3.319



PLAN

END DIAPHRAGM NOT SHOWN FOR CLARITY



ELEVATION

END DIAPHRAGM NOT SHOWN FOR CLARITY

LEGEND

(X) BEAM DESIGNATION

NOTES

1. FOR THE ABUTMENT REINFORCEMENT, THE MINIMUM LAP LENGTHS ARE AS FOLLOWS: #5 BARS = 2'-5"; #6 BARS = 3'-7"; #8 BARS = 5'-4".
2. RA601 BARS SHALL BE PLACED PARALLEL TO ℄ OF BEAMS AND SPACED PERPENDICULAR TO THE REFERENCE LINE.

REAR ABUTMENT PLAN & ELEVATION
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN	2337259
DESIGN AGENCY	DLZ
DESIGNER	JAM
CHECKER	JRL
REVIEWER	MJL 10/25/24
PROJECT ID	113793
SUBSET	5
TOTAL	15
SHEET	P.39
TOTAL	49

FAI-CR55-3.319

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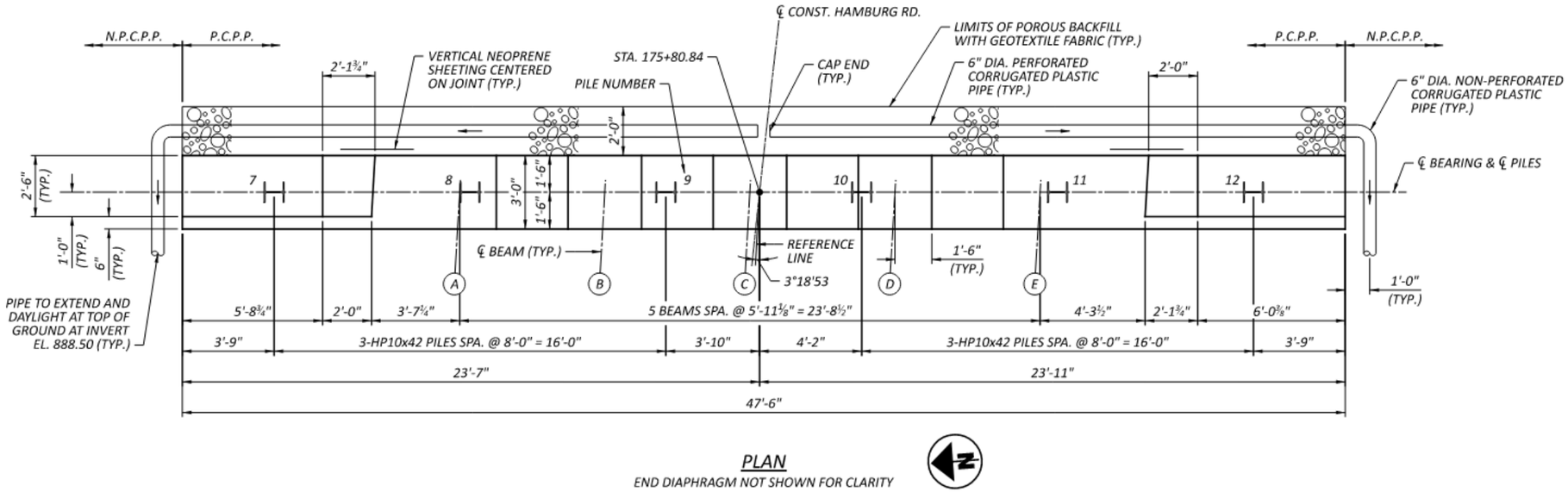
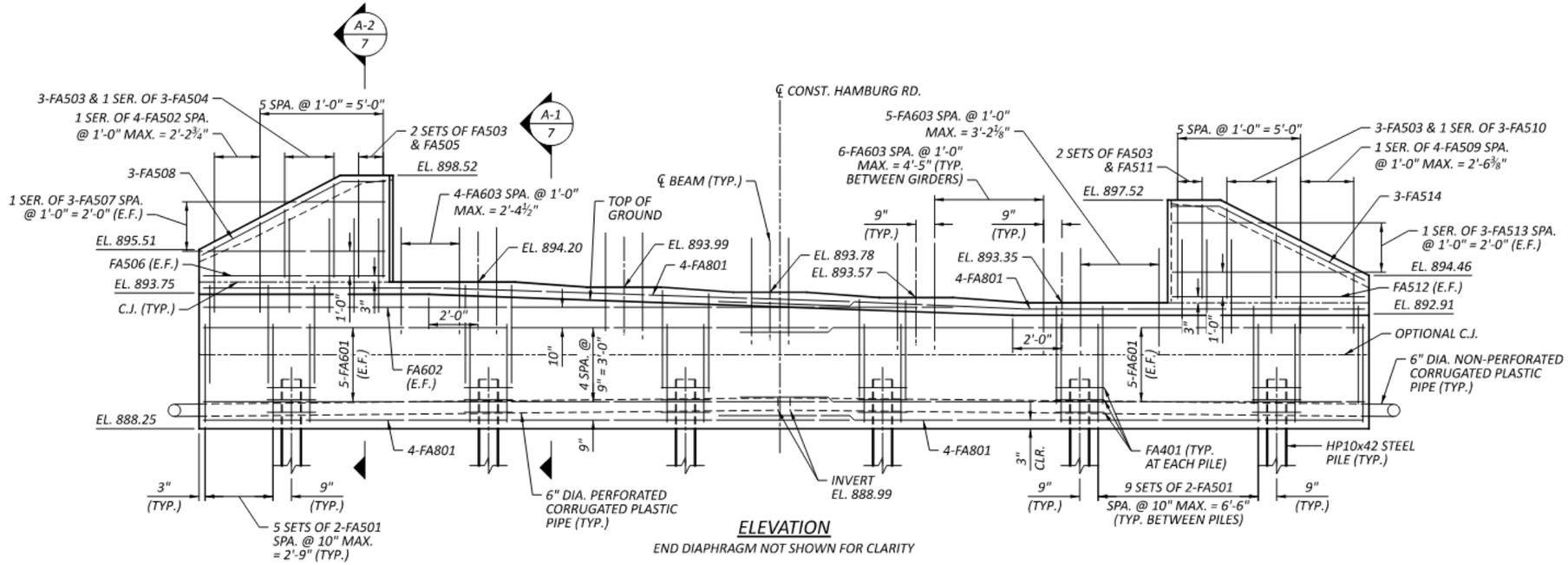


PLAN

END DIAPHRAGM NOT SHOWN FOR CLARITY



ELEVATION

END DIAPHRAGM NOT SHOWN FOR CLARITY

LEGEND

(X) BEAM DESIGNATION

NOTES

1. FOR THE ABUTMENT REINFORCEMENT, THE MINIMUM LAP LENGTHS ARE AS FOLLOWS: #5 BARS = 2'-5"; #6 BARS = 3'-7"; #8 BARS = 5'-4".
2. FA601 BARS SHALL BE PLACED PARALLEL TO ℄ OF BEAMS AND SPACED PERPENDICULAR TO THE REFERENCE LINE.

FORWARD ABUTMENT PLAN & ELEVATION
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN	2337259
DESIGN AGENCY	DLZ
DESIGNER	JAM
CHECKER	JRL
REVIEWER	MJL 10/25/24
PROJECT ID	113793
SUBSET	6
TOTAL	15
SHEET	P.40
TOTAL	49

FAI-CR55-3.319

MODEL: Sheet_SurvFt PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:46 PM USER: ehimes
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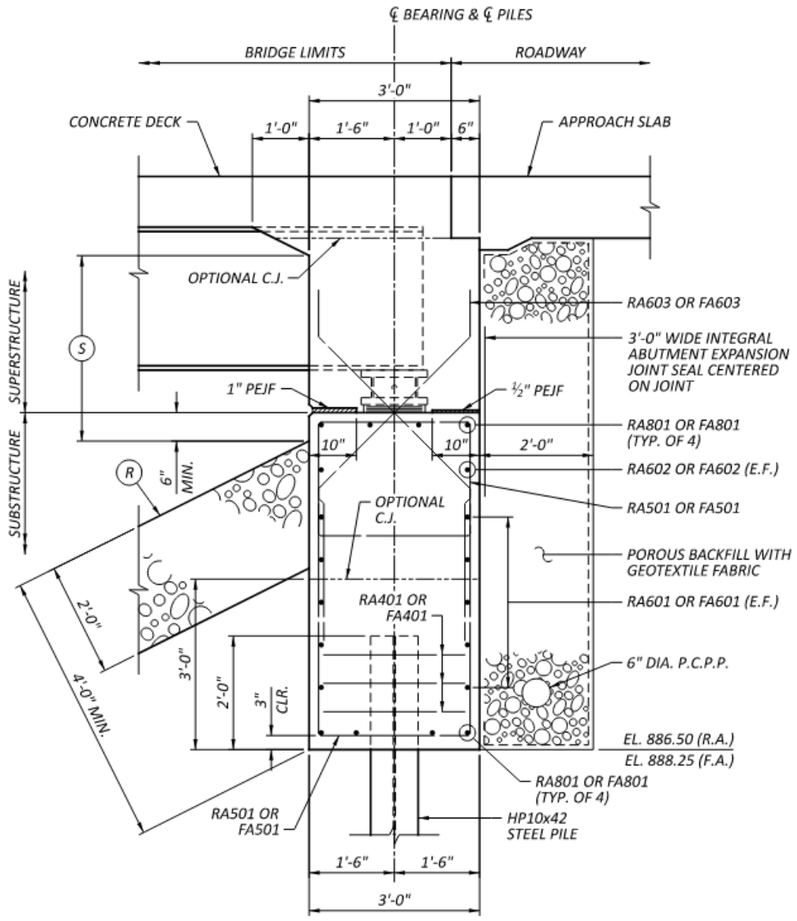
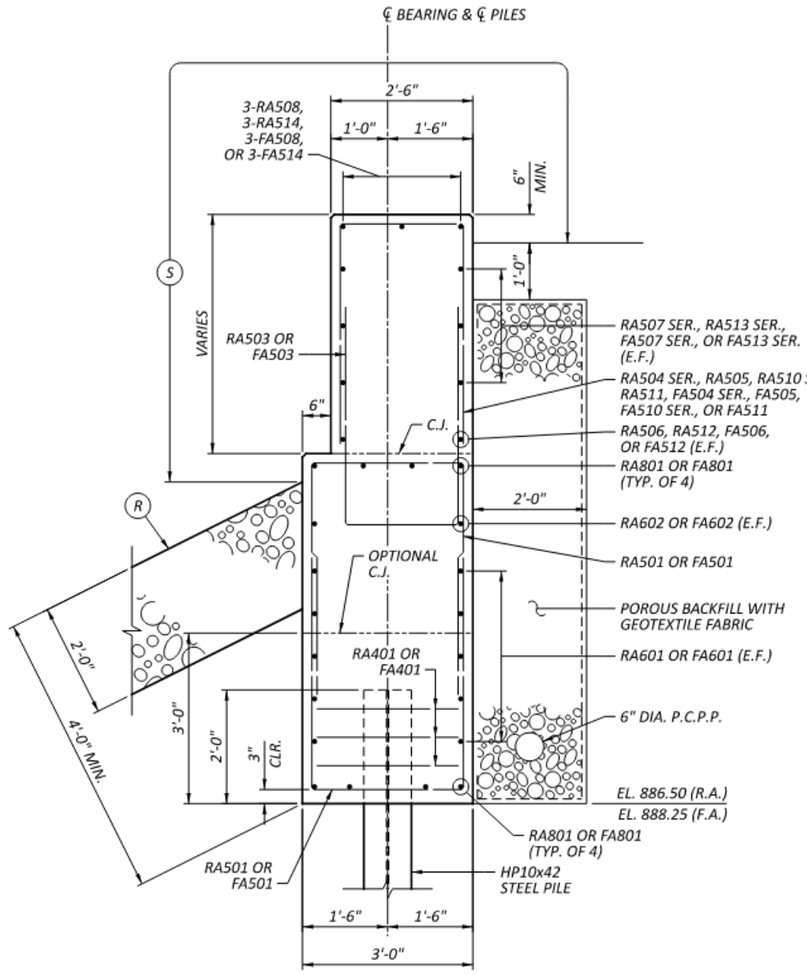


SECTION A-1 / 5 A-1 / 6

TYPICAL INTEGRAL ABUTMENT SECTION



SECTION A-2 / 5 A-2 / 6

TYPICAL WINGWALL SECTION

LEGEND

(R) ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC

(S) LIMITS OF SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

NOTES

1. FOR ADDITIONAL INTEGRAL ABUTMENT DETAILS, SEE STANDARD DRAWING ICD-1-20.

ABUTMENT SECTIONS
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259

DESIGN AGENCY DLZ

DESIGNER	CHECKER
JAM	JRL

REVIEWER MJL 10/25/24

PROJECT ID 113793

SUBSET	TOTAL
7	15

SHEET	TOTAL
P.41	49

FAI-CR55-3.319

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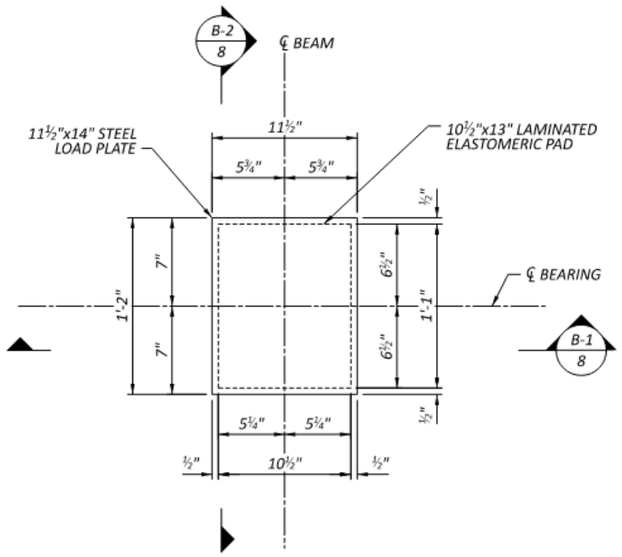
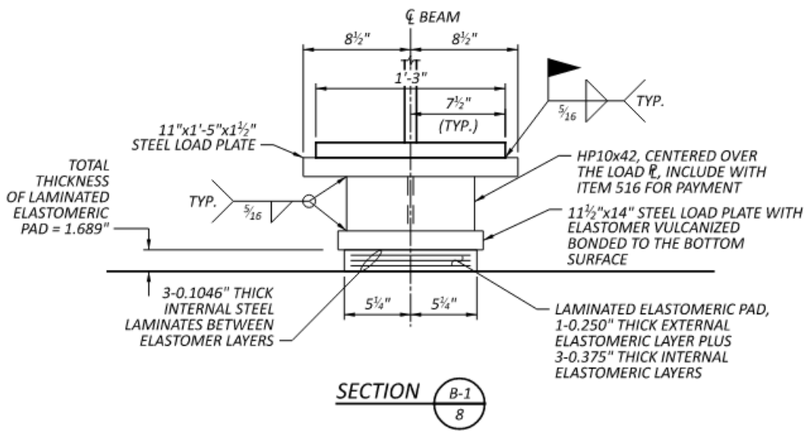


PLAN

BEAM NOT SHOWN



SECTION B-1 / 8

INTEGRAL BEARING

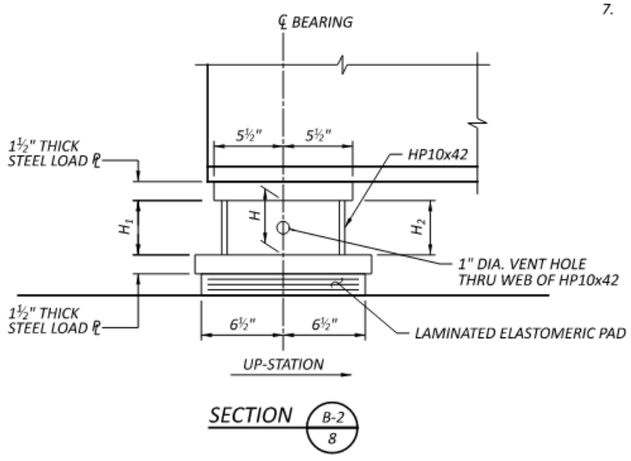
ABUTMENTS, 10 REQUIRED

TABLE OF BEARING DIMENSIONS (IN.)						
BEARING	HEIGHT	BEAM A	BEAM B	BEAM C	BEAM D	BEAM E
REAR	H1	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4
	H	4 5/16	4 5/16	4 5/16	4 5/16	4 5/16
	H2	4 3/8	4 3/8	4 3/8	4 3/8	4 3/8
FORWARD	H1	4 1/8	4 1/8	4 1/8	4 1/8	4 1/8
	H	4 5/16	4 5/16	4 5/16	4 5/16	4 5/16
	H2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2

NOTES

1. GALVANIZED ASTM A709 GRADE 50 STEEL SHALL BE USED FOR THE LOAD PLATES AND THE HP-SHAPES. ALL DAMAGED GALVANIZING MUST BE REPAIRED IN ACCORDANCE WITH ASTM A790, METHOD A1 OR A3. AEROSOL SPRAY APPLICATIONS OF PAINTS CONTAINING ZINC DUST SHALL NOT BE PERMITTED. THE LOAD PLATE SHALL BE VULCANIZED BONDED TO THE LAMINATED ELASTOMERIC PAD DURING THE MOLDING PROCESS.
2. ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONGTERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.
3. ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INCLUDE THE BEARING LOCATION ON THE BRIDGE AND A DIRECTION ARROW THAT POINTS UP-STATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED.
4. WELDING OF HP-SHAPE: IF PERIMETER WELD TO BOTH PLATES IS IMPRACTICAL DUE TO CLEARANCES REQUIRED FOR WELDING EQUIPMENT, PROVIDE A PERIMETER WELD TO THE LOAD PLATE AND PROVIDE A CONTINUOUS WELD TO THE TOP PLATE ALONG THE OUTSIDE OF THE FLANGE, AROUND THE FLANGE EDGES, AND RETURNED 3" MINIMUM ALONG THE INSIDE OF THE FLANGE, BOTH SIDES OF THE HP-SHAPE.
5. FOR VENT HOLE DETAILS IN THE WEB OF THE HP-SHAPE, SEE ODOT STD DWG. SICD-1-21. FIELD OR SHOP DRILLING OF THE VENT HOLES SHALL BE INCLUDED FOR PAYMENT WITH THE ELASTOMERIC BEARING.
6. BASIS OF PAYMENT: THE UNIT PRICE BID SHALL INCLUDE ALL MATERIALS, LABOR, AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL THE LAMINATED ELASTOMERIC BEARINGS, STEEL LOAD PLATES, AND HP-SHAPES. PAYMENT WILL BE MADE AT THE CONTRACT PRICE FOR ITEM 516 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN.
7. UNFACTORED DESIGN LOADS:

DEAD LOADS	97 KIPS
LIVE LOADS	57 KIPS
TOTAL DESIGN LOAD	154 KIPS



SECTION B-2 / 8

BEARING DETAILS
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259

DESIGN AGENCY DLZ

DESIGNER	CHECKER
JRL	MDP

REVIEWER MJL 10/25/24

PROJECT ID 113793

SUBSET	TOTAL
8	15

SHEET	TOTAL
P.42	49

FAI-CR55-3.319

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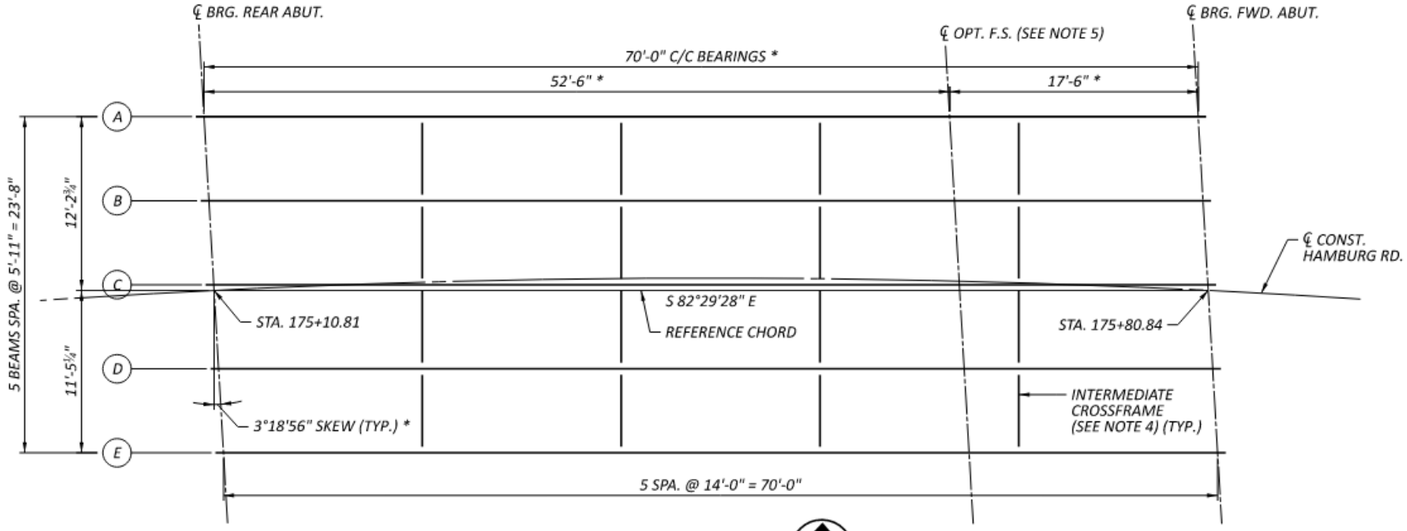
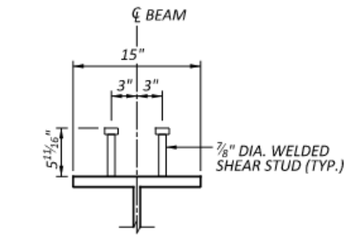
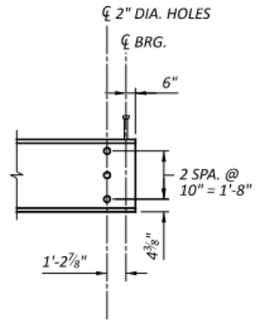


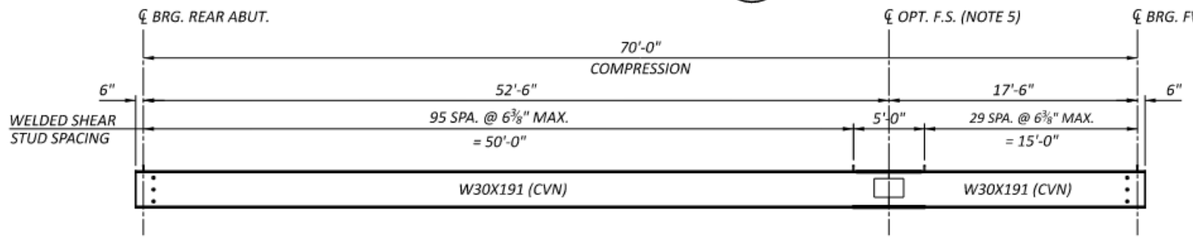
FRAMING PLAN



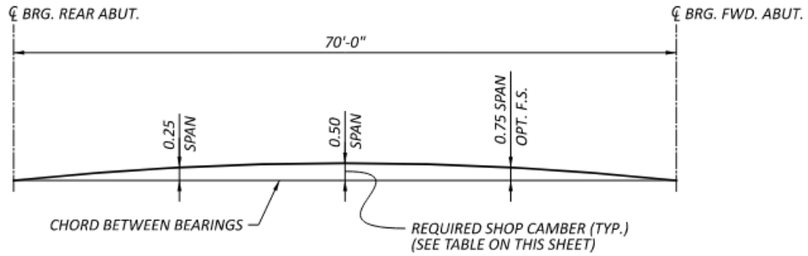
WELDED SHEAR STUD DETAIL



BEAM END DETAIL



TYPICAL BEAM ELEVATION



CAMBER DIAGRAM

DEFLECTION AND CAMBER TABLE (IN.)

BEAM LINE	DESCRIPTION	CL R.A.	SPAN 1			CL F.A.
			0.250	0.500	F.S., 0.75	
A	DEFLECTION DUE TO WEIGHT OF STEEL	0	5/16	7/16	5/16	0
	DEFLECTION DUE TO REMAINING DEAD LOAD	0	1 1/16	1 9/16	1 1/8	0
	ADJUSTMENT FOR VERTICAL CURVATURE	0	-2 1/4	-3	-2 1/4	0
	ADJUSTMENT FOR HORIZ. CURVATURE	0	-5/16	-7/16	-5/16	0
	REQUIRED SHOP CAMBER	**0**	**-1 3/16**	**-1 7/16**	**-1 1/8**	**0**
B	DEFLECTION DUE TO WEIGHT OF STEEL	0	5/16	7/16	5/16	0
	DEFLECTION DUE TO REMAINING DEAD LOAD	0	1 1/16	1 1/2	1 1/16	0
	ADJUSTMENT FOR VERTICAL CURVATURE	0	-2 5/16	-3 1/16	-2 5/16	0
	ADJUSTMENT FOR HORIZ. CURVATURE	0	-5/16	-7/16	-5/16	0
	REQUIRED SHOP CAMBER	**0**	**-1 1/4**	**-1 3/16**	**-1 1/4**	**0**
C	DEFLECTION DUE TO WEIGHT OF STEEL	0	5/16	7/16	5/16	0
	DEFLECTION DUE TO REMAINING DL	0	1 1/16	1 1/2	1 1/16	0
	ADJUSTMENT FOR VERTICAL CURVATURE	0	-2 5/16	-3 1/8	-2 5/16	0
	ADJUSTMENT FOR HORIZ. CURVATURE	0	-5/16	-7/16	-5/16	0
	REQUIRED SHOP CAMBER	**0**	**-1 1/4**	**-1 5/8**	**-1 1/4**	**0**
D	DEFLECTION DUE TO WEIGHT OF STEEL	0	5/16	7/16	5/16	0
	DEFLECTION DUE TO REMAINING DEAD LOAD	0	1 1/16	1 1/2	1 1/16	0
	ADJUSTMENT FOR VERTICAL CURVATURE	0	-2 3/8	-3 3/16	-2 3/8	0
	ADJUSTMENT FOR HORIZ. CURVATURE	0	-5/16	-7/16	-5/16	0
	REQUIRED SHOP CAMBER	**0**	**-1 5/16**	**-1 11/16**	**-1 5/16**	**0**
E	DEFLECTION DUE TO WEIGHT OF STEEL	0	5/16	7/16	5/16	0
	DEFLECTION DUE TO REMAINING DEAD LOAD	0	1 1/16	1 1/2	1 1/16	0
	ADJUSTMENT FOR VERTICAL CURVATURE	0	-2 7/16	-3 1/4	-2 7/16	0
	ADJUSTMENT FOR HORIZ. CURVATURE	0	-5/16	-7/16	-5/16	0
	REQUIRED SHOP CAMBER	**0**	**-1 3/8**	**-1 3/4**	**-1 3/8**	**0**

NOTE: POSITIVE DIMENSIONS INDICATE DOWNWARD DEFLECTION AND UPWARD CAMBER

LEGEND

(X) BEAM DESIGNATION

* DIMENSION OR ANGLE WITH RESPECT TO REFERENCE CHORD

NOTES

1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED ASTM A709 GRADE 50, MINIMUM YIELD STRENGTH 50 KSI.
2. CVN: WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN CMS 711.01.
3. WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSES UP TO 3/4" OR 5/16" FOR GREATER THAN 3/4" THICK.
4. FOR DETAILS OF INTERMEDIATE DIAPHRAGMS, SEE DETAILS ON STANDARD DRAWING GSD-1-19 SHEET 2 OF 4.
5. AT THE OPTION OF THE CONTRACTOR, THE OPTIONAL FIELD SPLICE MAY BE ELIMINATED, AND THE PROPOSED BEAMS MAY BE FABRICATED TO THE FULL LENGTH REQUIRED IN THE PLANS PROVIDED THAT THE FULL-LENGTH BEAMS CAN BE PROPERLY HOT DIPPED GALVNAIZED AND THE CONTRACTOR CAN SHOW IN THEIR ERECTION PLAN THAT THE FULL-LENGTH BEAMS CAN BE SAFELY DELIVERED TO THE PROJECT SITE.
6. FOR TRANSVERSE SECTION, SEE SHEET 11 OF 15.
7. FOR DECK PLAN, SEE SHEET 12 OF 15.
8. FOR BEAM SPLICE DETAILS, SEE SHEET 10 OF 15.

FRAMING PLAN
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259
DESIGN AGENCY DLZ
DESIGNER TB/JM | CHECKER MDP
REVIEWER MJL 10/25/24
PROJECT ID 113793
SUBSET 9 | TOTAL 15
SHEET P.43 | TOTAL 49

FAI-CR55-3.319

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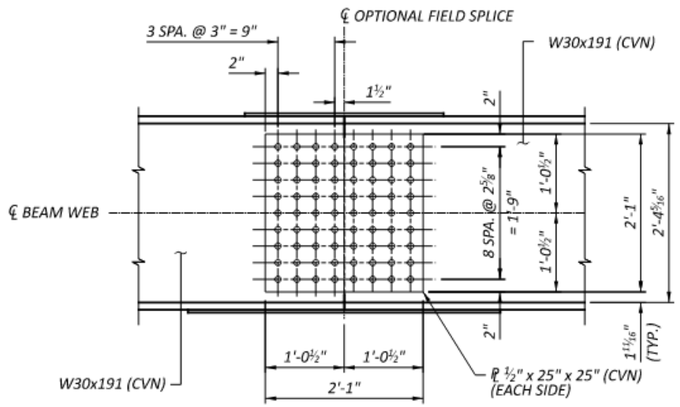
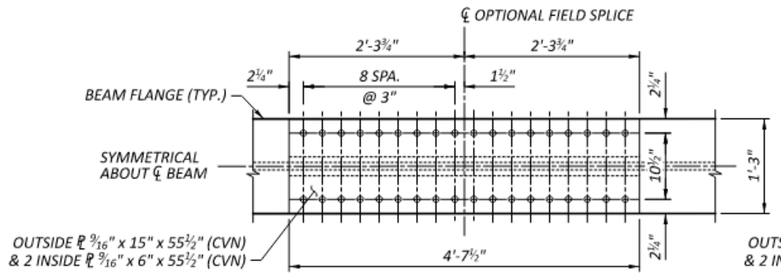
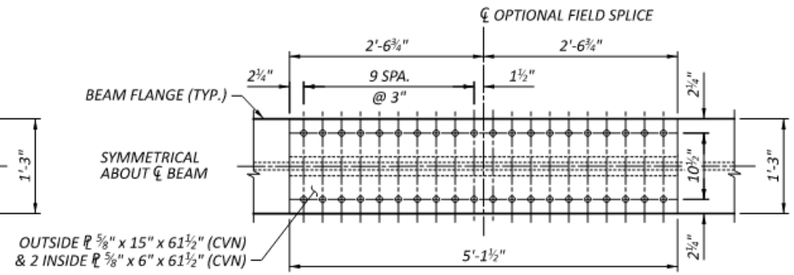


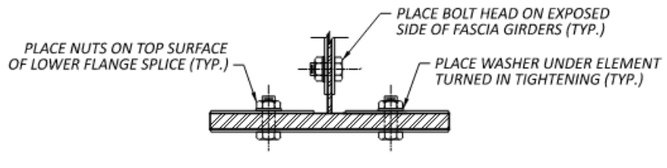
WEB SPLICE DETAIL
SYMMETRICAL ABOUT ℄ FIELD SPLICE
TYPICAL OF FIELD SPLICES



TOP FLANGE SPLICE DETAIL
SYMMETRICAL ABOUT ℄ FIELD SPLICE
TYPICAL OF FIELD SPLICES



BOTTOM FLANGE SPLICE DETAIL
SYMMETRICAL ABOUT ℄ FIELD SPLICE
TYPICAL OF FIELD SPLICES



PARTIAL SECTION
NOT TO SCALE

NOTES

1. *ALL STRUCTURAL STEEL SHALL BE GALVANIZED ASTM A709 GRADE 50, MINIMUM YIELD STRENGTH 50 KSI.*
2. *CVN: WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN CMS 711.01.*
3. *HIGH STRENGTH BOLTS FOR FIELD SPLICES SHALL BE ⅞" DIAMETER GALVANIZED A325 TYPE I BOLTS. HOLES FOR HIGH STRENGTH BOLTS FOR FIELD SPLICES SHALL BE 1" DIAMETER, 1⁄16" GREATER THAN THE STANDARD HOLE SIZE TO ALLOW FOR THE ADDITIONAL THICKNESS OF ZINC COATING.*
4. *GIRDER ENDS AT SPLICES SHALL BE CUT AND FIT AS PER PLAN. THE OPENING BETWEEN GIRDER ENDS AFTER ASSEMBLY SHALL NOT EXCEED ¼".*
5. *FOR LOCATION OF FIELD SPLICES, SEE FRAMING PLAN ON SHEET 10 OF 15.*
6. *ALL SPLICE MATERIALS, INCLUDING PLATES AND BOLT ASSEMBLIES, SHALL BE INCLUDED WITH THE STRUCTURAL STEEL QUANTITY FOR PAYMENT.*

BEAM SPLICE DETAILS
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN	2337259
DESIGN AGENCY	DLZ
DESIGNER	JRL
CHECKER	MDP
REVIEWER	MJL 10/25/24
PROJECT ID	113793
SUBSET	10
TOTAL	15
SHEET	P.44
TOTAL	49

FAI-CR55-3.319

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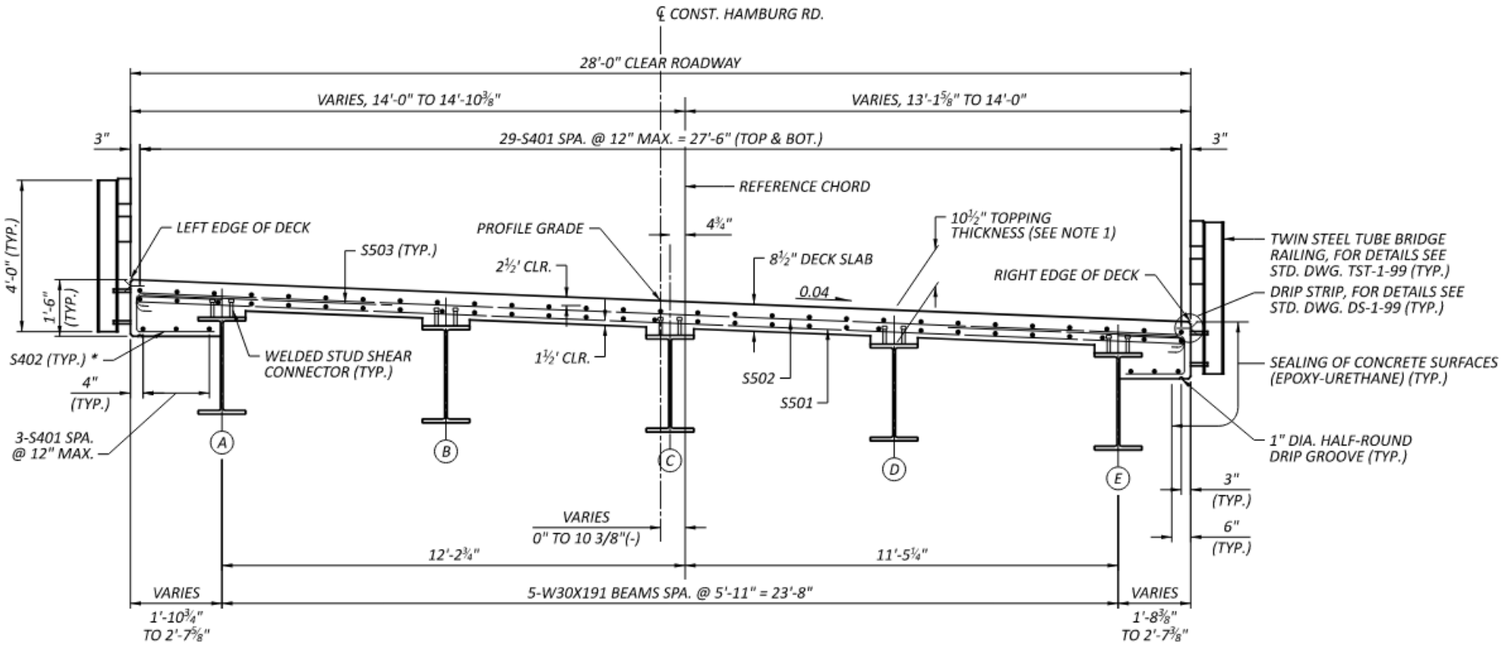

TRANSVERSE SECTION

LEGEND

(X) BEAM DESIGNATION

* BOTTOM LEGS OF S402 BARS SHALL BE FIELD TRIMMED AS NEEDED TO MAINTAIN A 2" CLEARANCE TO THE BEAM WEB

NOTES

1. DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORM EACH BEAM HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 2" INCHES AND A HAUNCH WIDTH EQUAL TO THE TOP FLANGE WIDTH. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE.

   THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.23.

2. DIAPHRAGMS ARE NOT SHOWN FOR CLARITY. FOR DETAILS OF INTERMEDIATE DIAPHRAGMS, SEE DETAILS ON STANDARD DRAWING GSD-1-19 SHEET 2 OF 4.

TRANSVERSE SECTION
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259
DESIGN AGENCY DLZ
DESIGNER TB/JM | CHECKER MDP
REVIEWER MJL 10/25/24
PROJECT ID 113793
SUBSET 11 | TOTAL 15
SHEET P.45 | TOTAL 49

FAI-CR55-3.319

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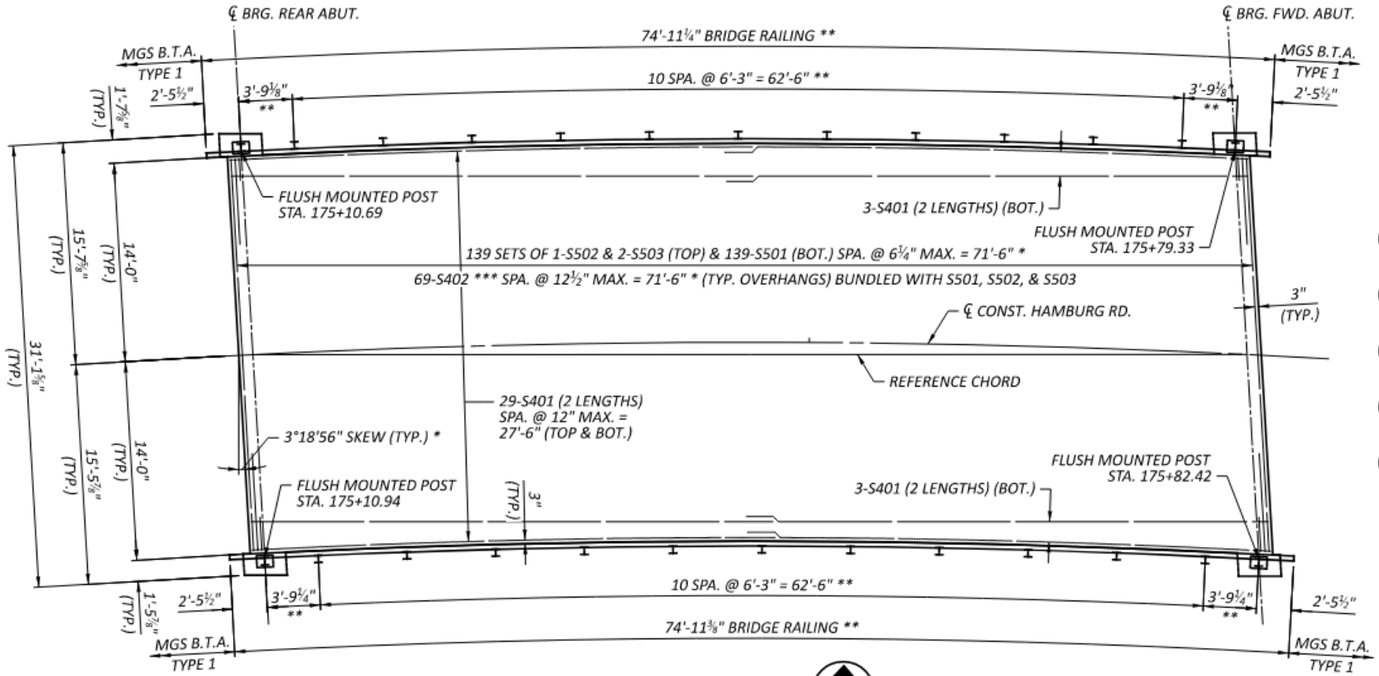
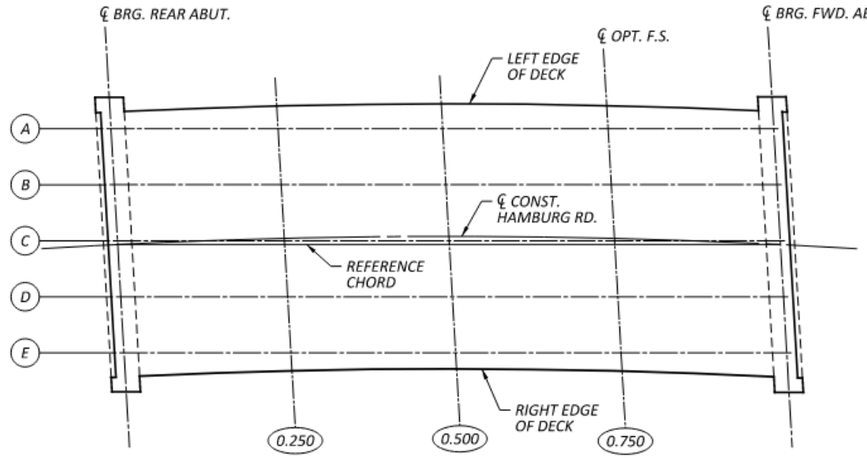


PLAN



SCREED LINE LOCATION DIAGRAM

DECK SCREED ELEVATION TABLE (FT.)

LOCATION	DESCRIPTION	CL R.A.	SPAN 1			CL F.A.
			0.250	0.500	F.S., 0.75	
LEFT EDGE OF DECK	STATION	175+10.69	175+27.85	175+45.02	175+62.18	175+79.34
	OFFSET	-14.00	-14.00	-14.00	-14.00	-14.00
	FINAL TOP OF DECK EL.	896.89	897.10	897.43	897.89	898.47
	DECK SCREED EL.	896.89	897.19	897.56	897.98	898.47
BEAM A	STATION	175+10.71	175+27.92	175+45.12	175+62.33	175+79.53
	OFFSET	-12.25	-12.23	-12.21	-12.20	-12.18
	FINAL TOP OF DECK EL.	896.82	897.03	897.36	897.82	898.41
	TOP OF HAUNCH EL.	896.11	896.41	896.78	897.21	897.70
BEAM B	STATION	175+10.76	175+28.11	175+45.46	175+62.81	175+80.17
	OFFSET	-6.32	-6.31	-6.30	-6.30	-6.29
	FINAL TOP OF DECK EL.	896.58	896.79	897.13	897.60	898.20
	TOP OF HAUNCH EL.	895.87	896.17	896.55	896.98	897.49
BEAM C	STATION	175+10.81	175+28.31	175+45.81	175+63.30	175+80.80
	OFFSET	-0.40	-0.40	-0.40	-0.39	-0.39
	FINAL TOP OF DECK EL.	896.35	896.56	896.91	897.38	897.99
	TOP OF HAUNCH EL.	895.64	895.94	896.32	896.76	897.28
CL CONST. C.R. 55	STATION	175+10.81	175+28.32	175+45.83	175+63.34	175+80.84
	OFFSET	0.00	0.00	0.00	0.00	0.00
	FINAL TOP OF DECK EL.	896.33	896.55	896.89	897.37	897.97
	DECK SCREED EL.	896.33	896.63	897.01	897.45	897.97
BEAM D	STATION	175+10.86	175+28.50	175+46.15	175+63.79	175+81.43
	OFFSET	5.53	5.52	5.51	5.51	5.50
	FINAL TOP OF DECK EL.	896.11	896.33	896.68	897.16	897.77
	TOP OF HAUNCH EL.	895.40	895.71	896.09	896.54	897.07
BEAM E	STATION	175+10.91	175+28.70	175+46.49	175+64.28	175+82.07
	OFFSET	11.46	11.44	11.42	11.41	11.39
	FINAL TOP OF DECK EL.	895.87	896.09	896.45	896.94	897.56
	TOP OF HAUNCH EL.	895.16	895.47	895.87	896.32	896.85
RIGHT EDGE OF DECK	STATION	175+10.93	175+28.79	175+46.64	175+64.49	175+82.35
	OFFSET	14.00	14.00	14.00	14.00	14.00
	FINAL TOP OF DECK EL.	895.77	895.99	896.35	896.84	897.47
	DECK SCREED EL.	895.77	896.08	896.48	896.93	897.47

LEGEND

(X) BEAM DESIGNATION

* DIMENSION OR ANGLE WITH RESPECT TO REFERENCE CHORD

** DIMENSION MEASURED ALONG EDGE OF DECK SLAB

*** BOTTOM LEGS OF S402 BARS SHALL BE FIELD TRIMMED AS NEEDED TO MAINTAIN A 2" CLEARANCE TO THE BEAM WEB

NOTES

1. SCREED ELEVATIONS SHOWN REPRESENT THE THEORETICAL DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.
2. TOP OF HAUNCH ELEVATIONS SHOWN REPRESENT THE THEORETICAL LOCATION OF THE BOTTOM OF THE DECK ABOVE THE BEAM HAUNCH PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.
3. FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.
4. NEGATIVE OFFSETS ARE TO BE LEFT OF THE CENTERLINE, POSITIVE OFFSETS ARE TO THE RIGHT.
5. FOR TRANSVERSE SECTION, SEE SHEET 11 OF 15.
6. FOR THE DECK REINFORCEMENT, THE MINIMUM LAP LENGTHS ARE AS FOLLOWS: #4 BARS = 1'-11"; #5 BARS = 2'-9".

DECK PLAN
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259
DESIGN AGENCY DLZ
DESIGNER TB/JM | CHECKER MDP
REVIEWER MJL 10/25/24
PROJECT ID 113793
SUBSET 12 | TOTAL 15
SHEET P.46 | TOTAL 49

FAI-CR55-3.319

MODEL: Sheet_SurvFt PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:00:57 PM USER: ehimes
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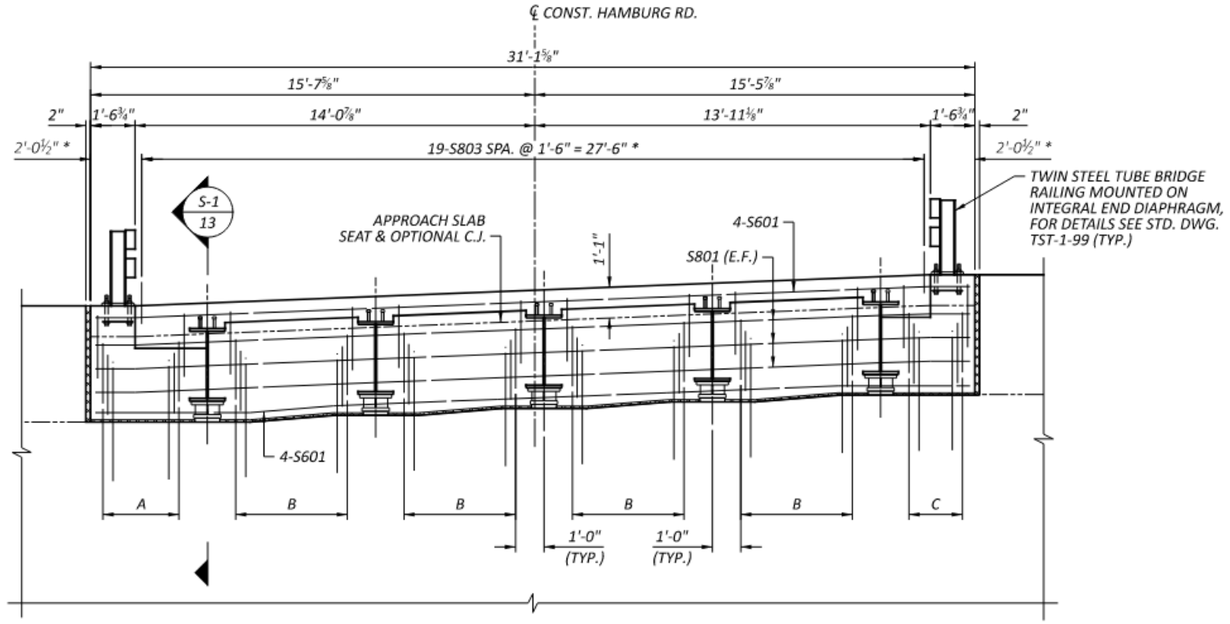
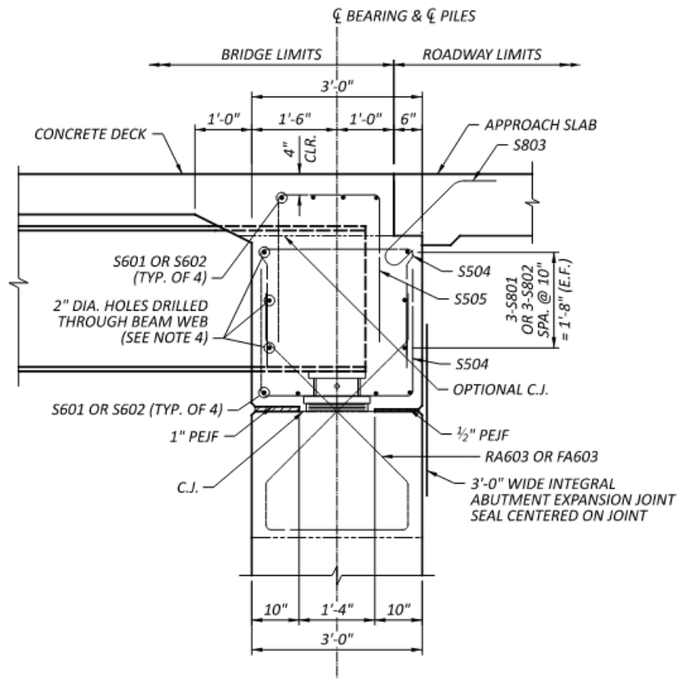
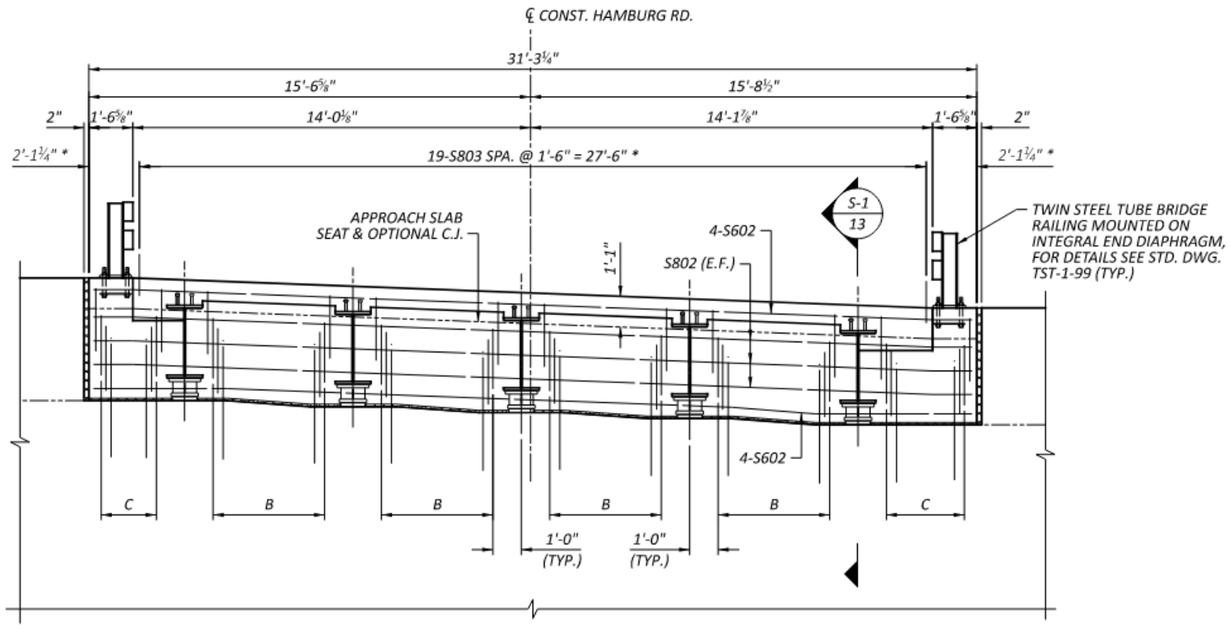


REAR DIAPHRAGM ELEVATION



SECTION S-1 / 13



FORWARD DIAPHRAGM ELEVATION

LEGEND

A = 5 SETS OF 1-S505 & 2-S504, LAPPED WITH RA603 OR FA603

B = 6 SETS OF 1-S505 & 2-S504, LAPPED WITH RA603 OR FA603

C = 4 SETS OF 1-S505 & 2-S504, LAPPED WITH RA603 OR FA603

** DIMENSIONS MEASURED PERPENDICULAR TO REFERENCE CHORD*

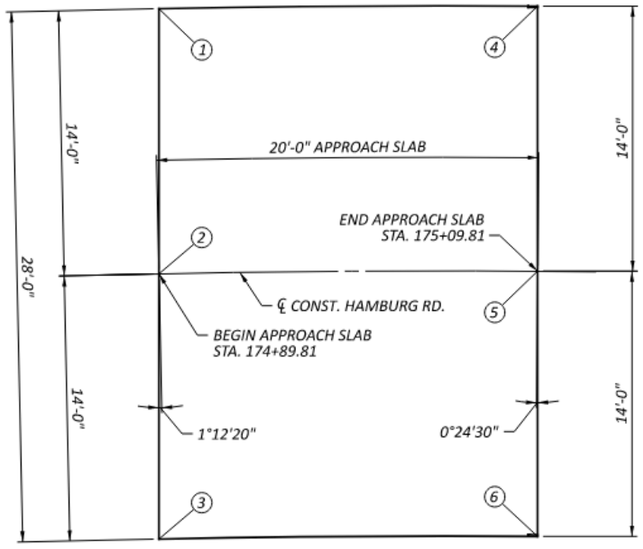
NOTES

1. *FOR ADDITIONAL END DIAPHRAGM DETAILS, SEE STANDARD DRAWING ICD-1-20.*
2. *ABUTMENT DIAPHRAGM CONCRETE: PLACE THE DIAPHRAGM CONCRETE ENCASING THE STRUCTURAL MEMBER ENDS WITH THE DECK CONCRETE OR AT LEAST 48 HOURS BEFORE PLACEMENT OF THE DECK CONCRETE. IF PLACED SEPARATELY, LOCATE A HORIZONTAL CONSTRUCTION JOINT IN THE DIAPHRAGM AS SHOWN ON ICD-1-20 FOR STEEL SUPERSTRUCTURES AND PLACE REMAINING DIAPHRAGM CONCRETE WITH THE DECK.*
3. *FOR THE END DIAPHRAGM REINFORCEMENT, THE MINIMUM LAP LENGTHS ARE AS FOLLOWS: #5 BARS = 2'-5".*
4. *FOR GIRDER END DETAIL, SEE SHEET 9 OF 15.*
5. *VERTICAL REINFORCEMENT SHALL BE PLACED PARALLEL TO ℄ BEAMS.*

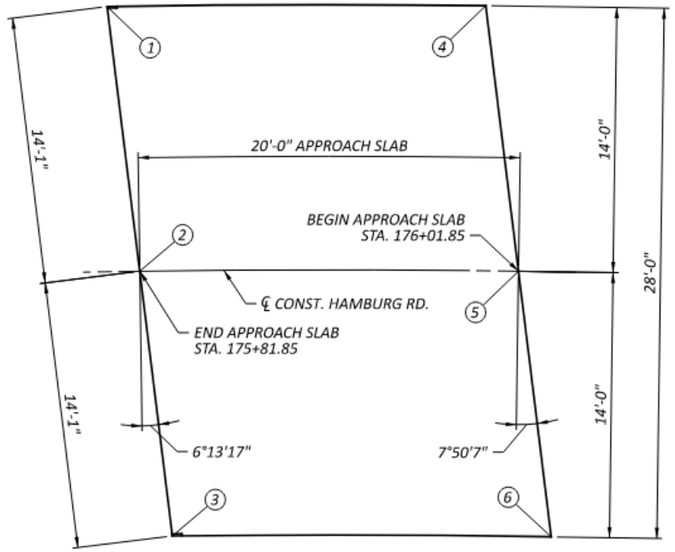
END DIAPHRAGM DETAILS
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN	2337259
DESIGN AGENCY	DLZ
DESIGNER	JRL
CHECKER	MDP
REVIEWER	MJL 10/25/24
PROJECT ID	113793
SUBSET	13
TOTAL	15
SHEET	P.47
TOTAL	49

FAI-CR55-3.319



REAR APPROACH SLAB PLAN



FORWARD APPROACH SLAB PLAN

APPROACH SLAB SURFACE ELEVATIONS						
LOCATION	①	②	③	④	⑤	⑥
REAR	896.80	896.24	895.68	896.88	896.32	895.76
FORWARD	898.51	898.01	897.51	899.34	898.87	898.40

NOTES

1. THIS DRAWING PROVIDES DETAILS TO SUPPLEMENT THE STANDARD DRAWING. FOR APPROACH SLAB REINFORCING STEEL AND DETAILS NOT SHOWN, REFER TO STANDARD DRAWING AS-1-15.

APPROACH SLAB PLAN
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259
DESIGN AGENCY DLZ
DESIGNER TB/JM | CHECKER MDP
REVIEWER MJL 10/25/24
PROJECT ID 113793
SUBSET 14 | TOTAL 15
SHEET P.48 | TOTAL 49

FAI-CR55-3.319

MODEL: Sheet_SurvFt PAPERSIZE: 17x11 (in.) DATE: 8/21/2025 TIME: 12:01:01 PM USER: ehimes
X:\Projects\2023\2321\120200 Fairfield Co Hambu\120200\400-Engineering\Structures\SFN_2337259\Sheets\113793_SFN_2337259_SM001.dgn

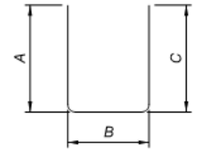
CONCRETE REINFORCEMENT BAR LIST

MARK	NO.	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	SERIES INC.
REAR ABUTMENT (ECSR)										
RA401	18	9'-6"	114	3	2'-6"	2'-0"				
RA501	110	10'-7"	1,214	2	4'-1"	2'-8"	4'-1"			
	1	9'-10"				2'-6"				
RA502	SER OF	TO	33	3	2'-2"	TO				5"
	3	11'-6"				3'-4"				
RA503	10	9'-9"	102	2	3'-11"	2'-2"	3'-11"			
	1	6'-11"			2'-6"		2'-6"			
RA504	SER OF	TO	25	2	TO	2'-2"	TO			6.5"
	3	9'-1"			3'-7"		3'-7"			
RA505	2	9'-5"	20	2	3'-9"	2'-2"	3'-9"			
RA506	2	7'-1"	15	STR						
	2	2'-11"								
RA507	SER OF	TO	30	STR						22.5"
	3	6'-8"								
RA508	3	7'-8"	24	19	6'-0"	1'-6"	0'-10"			
	1	9'-10"				2'-6"				
RA509	SER OF	TO	46	3	2'-2"	TO				4.75"
	4	12'-2"				3'-8"				
	1	7'-7"			2'-10"		2'-10"			
RA510	SER OF	TO	27	2	TO	2'-2"	TO			5.5"
	3	9'-5"			3'-9"		3'-9"			
RA511	2	9'-9"	20	2	3'-11"	2'-2"	3'-11"			
RA512	2	8'-1"	17	STR						
	2	3'-5"								
RA513	SER OF	TO	35	STR						25.5"
	3	7'-8"								
RA514	3	8'-9"	27	19	7'-0"	1'-7"	0'-9"			
RA601	20	25'-5"	764	STR						
RA602	2	31'-2"	94	STR						
RA603	33	13'-1"	648	26	2'-8"	0'-10"	2'-8"	0'-10"	2'-8"	
RA801	16	26'-4"	1,125	STR						
		TOTAL	4,380	LBS						

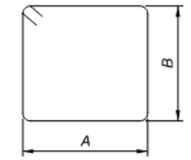
CONCRETE REINFORCEMENT BAR LIST

MARK	NO.	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	SERIES INC.
FORWARD ABUTMENT (ECSR)										
FA401	18	9'-6"	114	3	2'-6"	2'-0"				
FA501	110	10'-7"	1,214	2	4'-1"	2'-8"	4'-1"			
	1	10'-2"				2'-8"				
FA502	SER OF	TO	47	3	2'-2"	TO				4"
	4	12'-2"				3'-8"				
FA503	10	9'-7"	100	2	3'-10"	2'-2"	3'-10"			
	1	7'-5"			2'-9"		2'-9"			
FA504	SER OF	TO	27	2	TO	2'-2"	TO			6.5"
	3	9'-7"			3'-10"		3'-10"			
FA505	2	9'-5"	20	2	3'-9"	2'-2"	3'-9"			
FA506	2	7'-4"	15	STR						
	2	3'-5"								
FA507	SER OF	TO	33	STR						22.5"
	3	7'-2"								
FA508	3	8'-0"	25	19	6'-4"	1'-6"	0'-9"			
	1	9'-8"				2'-5"				
FA509	SER OF	TO	45	3	2'-2"	TO				4.25"
	4	11'-10"				3'-6"				
	1	7'-3"			2'-8"		2'-8"			
FA510	SER OF	TO	26	2	TO	2'-2"	TO			6"
	3	9'-3"			3'-8"		3'-8"			
FA511	2	9'-7"	20	2	3'-10"	2'-2"	3'-10"			
FA512	2	7'-8"	16	STR						
	2	3'-2"								
FA513	SER OF	TO	32	STR						23.5"
	3	7'-1"								
FA514	3	8'-4"	26	19	6'-7"	1'-7"	0'-9"			
FA601	20	25'-5"	764	STR						
FA602	2	30'-6"	92	STR						
FA603	33	13'-1"	648	26	2'-8"	0'-10"	2'-8"	0'-10"	2'-8"	
FA801	16	26'-4"	1,125	STR						
		TOTAL	4,389	LBS						
SUPERSTRUCTURE (ECSR)										
S401	128	36'-10"	3,149	STR						
S402	138	5'-8"	522	2	2'-6"	1'-1"	2'-3"			
S501	139	27'-8"	4,011	STR						
S502	139	28'-10"	4,180	17	27'-8"					
S503	278	7'-7"	2,199	16	7'-0"					
S504	130	7'-9"	1,051	2	2'-8"	2'-8"	2'-8"			
S505	65	6'-5"	435	2	2'-3"	2'-2"	2'-3"			
S601	8	30'-9"	369	STR						
S602	8	30'-11"	371	STR						
S801	6	30'-9"	493	STR						
S802	6	30'-11"	495	STR						
S803	38	4'-8"	473	18	2'-5"	1'-0"	1'-0"			
		TOTAL	17,748	LBS						

BENDING DIAGRAMS



TYPE-2



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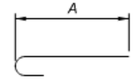

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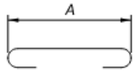

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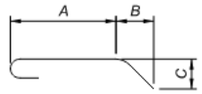

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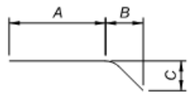

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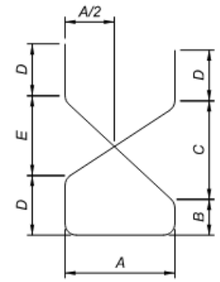

TYPE-26

CONCRETE REINFORCEMENT NOTES

1. SERIES BARS - EACH BAR VARIES BY TABULATED AMOUNT.
2. ALL DIMENSIONS ARE OUT-TO-OUT.
3. TYPE "STR" INDICATES A STRAIGHT BAR.
4. THE BAR SIZE NUMBER IS INDICATED IN THE 'MARK' COLUMN. THE FIRST ONE OR TWO DIGITS OF EACH MARK INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, A501 IS A #5 BAR SIZE AND P1101 IS A #11 BAR SIZE.
5. "*" INDICATES BARS WITH MECHANICAL SPLICES.
6. "ECSR" INDICATES EPOXY COATED STEEL REINFORCEMENT. "GFRP" INDICATES GLASS FIBER REINFORCED POLYMER REINFORCEMENT.

CONCRETE REINFORCEMENT BAR LIST
BRIDGE NO. FAI-C0055-0332
OVER MUDDY PRAIRIE RUN

SFN 2337259

DESIGN AGENCY DLZ

DESIGNER	CHECKER
JAM	MDP

REVIEWER MJL 10/25/24

PROJECT ID 113793

SUBSET	TOTAL
15	15

SHEET	TOTAL
P.49	49

FAI-CR55-3.319