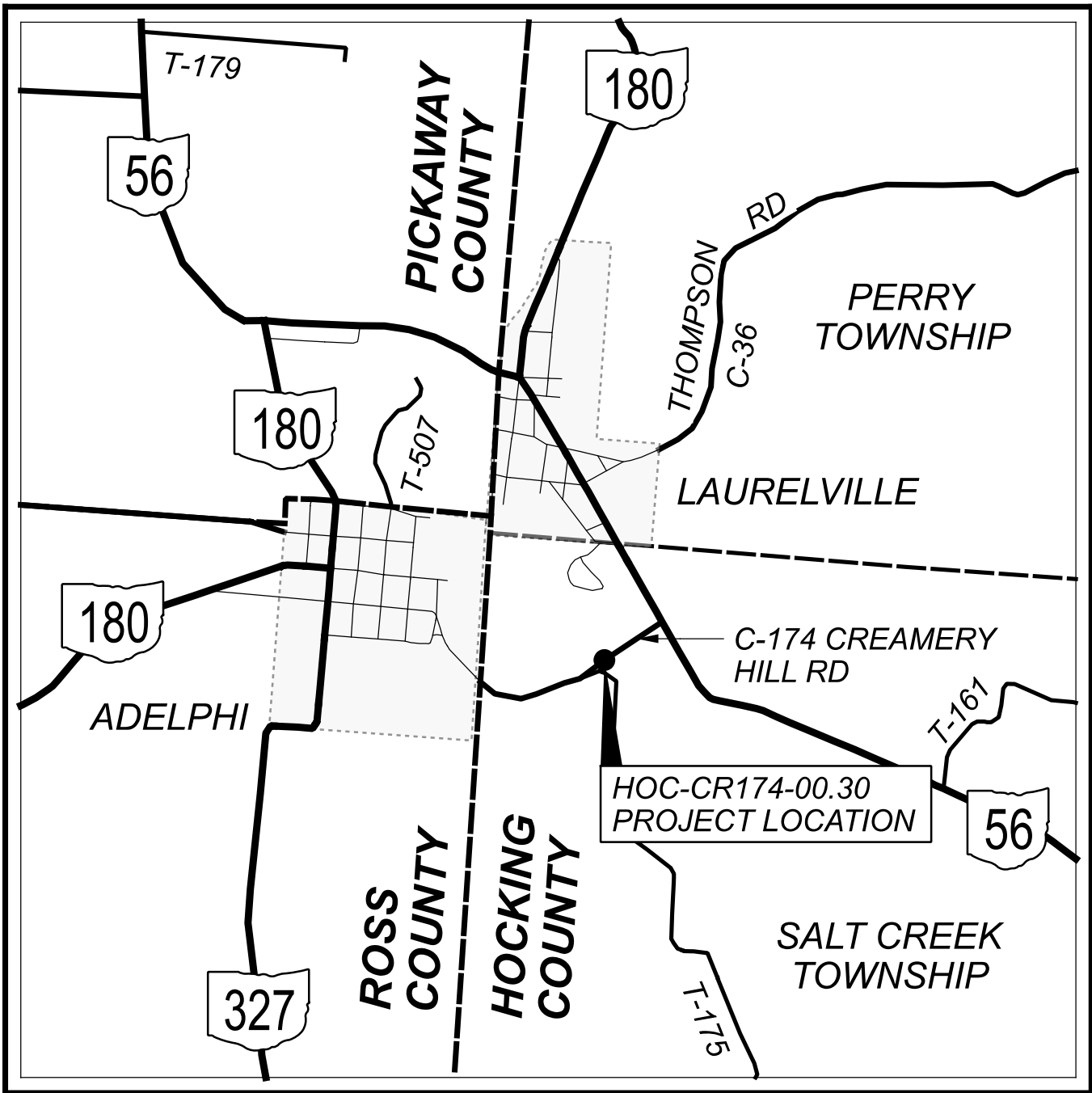




LOCATION MAP

LATITUDE: 39°27'47" N LONGITUDE: 82°44'08" W



STATE ROUTES	
COUNTY ROADS	
TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

CURRENT ADT (2015)	153
DESIGN YEAR ADT (2041)	212
DESIGN HOURLY VOLUME (2041)	NOT APPLICABLE
DIRECTIONAL DISTRIBUTION	NOT APPLICABLE
TRUCKS (24 HOUR B&C)	0
DESIGN SPEED	40 MPH
LEGAL SPEED	40 MPH
DESIGN FUNCTIONAL CLASSIFICATION: 07 - LOCAL (RURAL)	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig


Before You Dig

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

PLAN PREPARED BY:



Newark Office:
88 West Church Street
Newark, OH 43055
(740) 345-1921 (ph)
(740) 345-4994 (fax)
www.adrinnovation.com

ENGINEER'S SEAL:

HOCKING COUNTY
ENGINEER

HOC-CR174-00.30

SALT CREEK TOWNSHIP

HOCKING COUNTY

INDEX OF SHEETS:

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APPROACH SLAB DETAILS	P.27 - P.28

FEDERAL PROJECT NUMBER

NONE

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REPLACEMENT OF BRIDGE SUPERSTRUCTURE
WITH COMPOSITE PRESTRESSED CONCRETE BOX
BEAMS. PROJECT INCLUDES APPROACH WORK AND
GUARDRAIL.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.69 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.00 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	NOT APPLICABLE

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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT
THE MAKING OF THIS IMPROVEMENT WILL REQUIRE
THE CLOSING TO TRAFFIC OF THE HIGHWAY.

APPROVED _____
DATE _____ HOCKING COUNTY COMMISSIONER

APPROVED _____
DATE _____ HOCKING COUNTY COMMISSIONER

APPROVED _____
DATE _____ HOCKING COUNTY COMMISSIONER

APPROVED _____
DATE _____ HOCKING COUNTY ENGINEER

TITLE SHEET

DESIGN AGENCY


An Employee Owned Company
88 West Church Street
Newark, OH 43055
(740) 345-1921 (ph)
www.adrinnovation.com

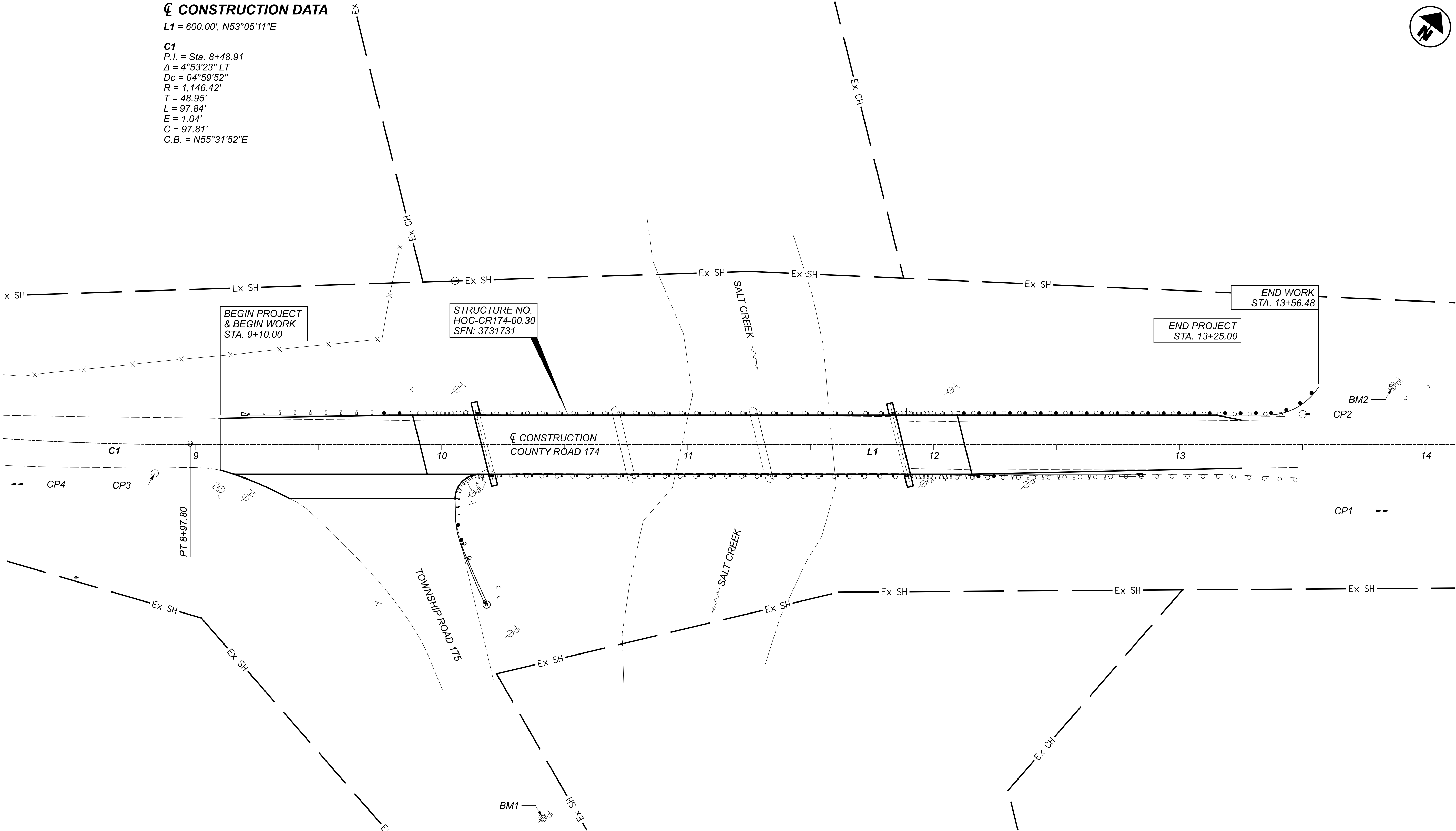
DESIGNER	CAC
REVIEWER	
BCK 07-15-25	
PROJECT ID	112312
SHEET	TOTAL
P.01	28

℄ CONSTRUCTION DATA

L1 = 600.00', N53°05'11"E

C1

P.I. = Sta. 8+48.91
Δ = 4°53'23" LT
Dc = 04°59'52"
R = 1,146.42'
T = 48.95'
L = 97.84'
E = 1.04'
C = 97.81'
C.B. = N55°31'52"E



SCHEMATIC PLAN

SURVEY INFORMATION						
POINT	GRID COORDINATES		ELEVATION	DESCRIPTION	℄ CONSTRUCTION	
	NORTHING	EASTING			STATION	OFFSET
CP1	533,444.98	1,902,722.13	729.71	5/8"X30" REBAR GPD CAP	-	-
CP2	533,163.17	1,902,269.50	733.97	5/8"X30" REBAR GPD CAP	13+50.06	12.43' LEFT
CP3	532,863.68	1,901,910.84	732.60	5/8"X30" REBAR GPD CAP	-	-
CP4	532,637.33	1,901,418.74	737.16	5/8"X30" REBAR GPD CAP	-	-
BM1	532,846.4	1,902,120.8	733.16	MAGSPIKE IN POLE	10+40.93	151.57' RIGHT
BM2	533,193.7	1,902,292.1	731.41	MAGSPIKE IN POLE	13+86.41	23.25' LEFT

DESIGN AGENCY



DESIGNER

CAC

REVIEWER

BCK 07-15-25

PROJECT ID

112312

SHEET

P.02

TOTAL

28

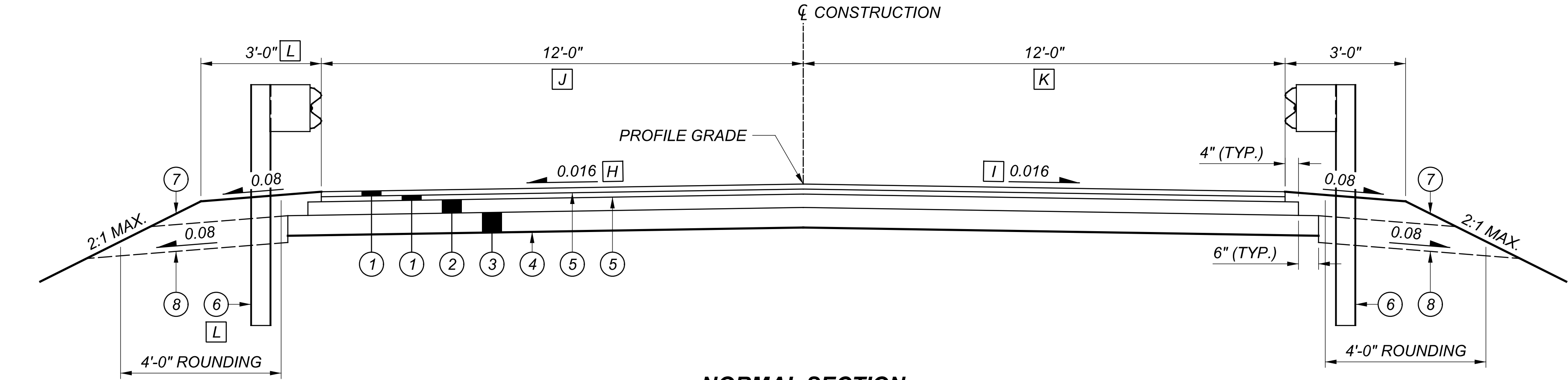
LEGEND

- ① ITEM 441 - 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
- ② ITEM 301 - 4" ASPHALT CONCRETE BASE, PG64-22, (449)
- ③ ITEM 304 - 6" AGGREGATE BASE
- ④ ITEM 204 - SUBGRADE COMPACTION
- ⑤ ITEM 407 - TACK COAT
- ⑥ ITEM 606 - GUARDRAIL, TYPE MGS
- ITEM 606 - GUARDRAIL, TYPE MGS WITH LONG POST
- ⑦ ITEM 659 - SEEDING AND MULCHING
- ⑧ ITEM 605 - AGGREGATE DRAIN
- ⑨ ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T = 15")

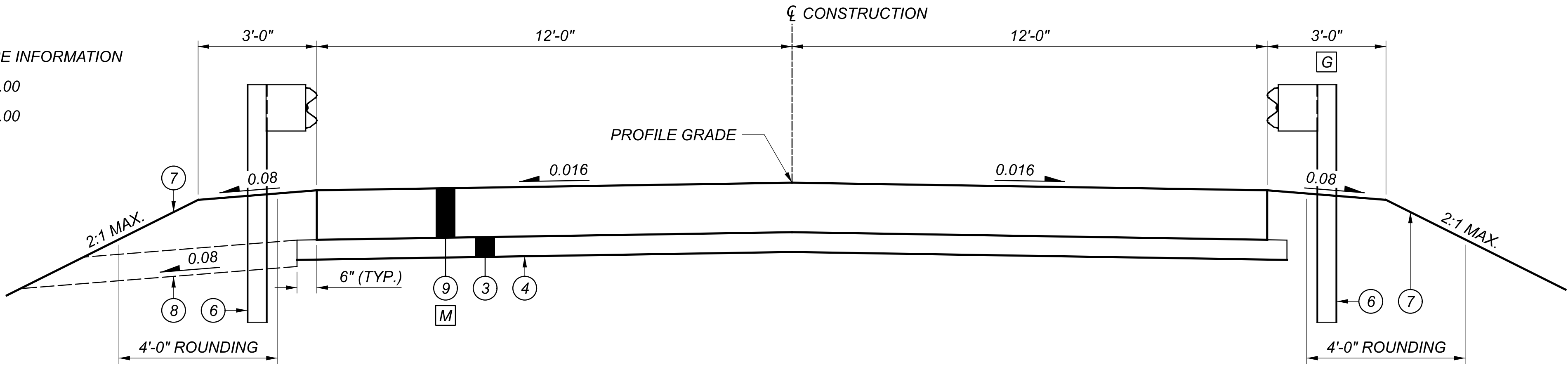
- (A) EXISTING ASPHALT PAVEMENT

CODED NOTES

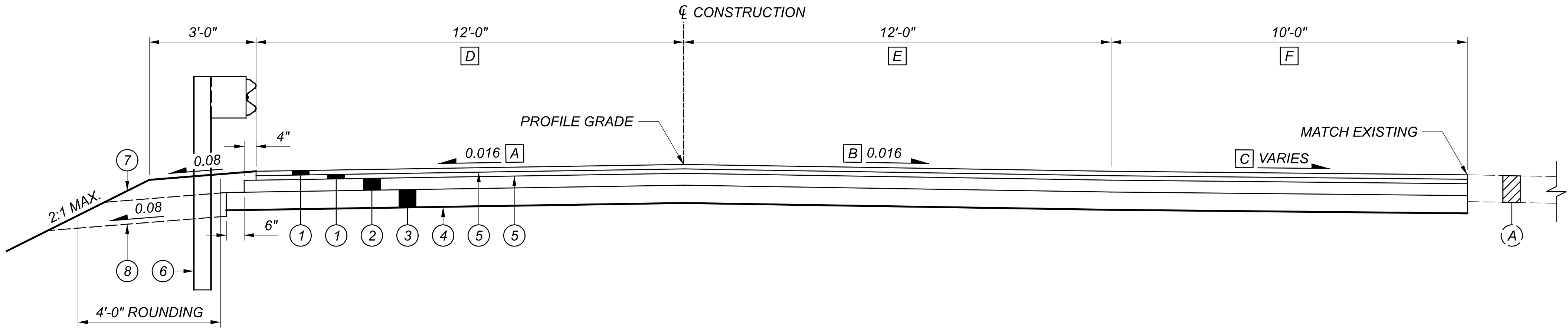
- A TRANSITION FROM EXISTING TO 0.016 FROM STA. 9+10.00 TO STA. 9+20.00
- B TRANSITION FROM EXISTING TO 0.016 FROM STA. 9+10.00 TO STA. 9+60.00
- C SEE INTERSECTION DETAILS
- D VARIES FROM 10'-9" TO 12'-0" FROM STA. 9+10.00 TO STA. 9+78.75
- E VARIES FROM 10'-3" TO 12'-0" FROM STA. 9+10.00 TO STA. 9+15.47
- F VARIES FROM 0'-0" TO 10'-0" FROM STA. 9+15.47 TO STA. 9+38.34
- G VARIES AT REAR APPROACH, SEE INTERSECTION DETAILS FOR MORE INFORMATION
- H VARIES FROM 0.016 TO EXISTING FROM STA. 13+10.00 TO STA. 13+25.00
- I VARIES FROM 0.016 TO EXISTING FROM STA. 12+85.00 TO STA. 13+25.00
- J VARIES FROM 12'-0" TO 10'-0" FROM STA. 13+15.00 TO STA 13+25.00
- K VARIES FROM 12'-0" TO 9'-6" FROM STA. 12+15.55 TO STA 13+25.00
- L LONG POST REQUIRED FROM STA. 12+85.44 TO STA. 13+22.94
GRADED SHOULDER WIDTH VARIES
- M SEE APPROACH SLAB DETAILS ON P.27 & P.28 FOR MORE DETAILS.



NORMAL SECTION
STA. 12+12.56 TO STA. 13+25.00



APPROACH SLAB SECTION
STA. 9+91.19 TO STA. 10+16.19
STA. 11+87.56 TO STA. 12+12.56



NORMAL SECTION (AT INTERSECTION)
STA. 9+10.00 TO STA. 9+91.19

UTILITIES

REFER TO HOCKING COUNTY FOR UTILITY OWNERS AND CONTACT INFORMATION.

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.

SURVEY PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

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

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS
MONUMENT TYPE: 5/8" x 30" REBAR WITH RED "GPD" CAP

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE
GRID COORDINATES

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 DAMAGE OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

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.

ITEM 201, CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING

ITEM 204, PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204, PROOF ROLLING 1 HOUR

ITEM 605, AGGREGATE DRAINS

AGGREGATE DRAINS SHALL BE PLACED AT 50 FOOT INTERVALS ON EACH SIDE OF THE PAVEMENT AND STAGGERED SO EACH DRAIN IS 25 FEET LONGITUDINALLY FROM THE ADJACENT DRAIN ON THE OPPOSITE SIDE.

STA. 9+10.00	LT.	STA. 12+50.00	RT.
STA. 9+50.00	LT.	STA. 12+75.00	LT.
STA. 10+00.00	LT.	STA. 13+00.00	RT.
STA. 12+00.00	RT.	STA. 13+25.00	LT.
STA. 12+25.00	LT.		

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY:

ITEM 605, AGGREGATE DRAINS 70 FOOT

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:

ITEM 611, 6" CONDUIT, TYPE E	50 FEET
ITEM 611, 6" CONDUIT, TYPE F	50 FEET
ITEM 611, 8" CONDUIT, TYPE B	50 FEET
ITEM 601, ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	10 CUBIC YARDS

SEEDING AND MULCHING

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

ITEM 659, SOIL ANALYSIS TEST 2 EACH
ITEM 659, TOPSOIL 25 CUBIC YARD
ITEM 659, REPAIR SEEDING AND MULCHING 11 SQUARE YARD
ITEM 659, COMMERCIAL FERTILIZER 0.03 TON
ITEM 659, LIME 0.05 ACRES
ITEM 659, WATER 1 M. GALLON

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

ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE J, ASTM D4956 TYPE XI REFLECTIVE SHEETING, PER CMS 730.193.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 614, MAINTAINING TRAFFIC

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE 14 CALENDAR DAYS PRIOR TO CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHALL BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN TRAFFIC SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC. ACCESS SHALL BE MAINTAINED AT ALL TIMES TO TR-175.

STA. 9+00
STA. 13+35

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

TREE REMOVAL

NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. FOR THE PURPOSE OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT WITH A TRUNK 3 INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

IN-STREAM RESTRICTIONS

NO IN-STREAM WORK MAY OCCUR DURING THE RESTRICTED PERIOD OF MARCH 15 TO JUNE 30 UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR).

DESIGN AGENCY



DESIGNER

CAC

REVIEWER

BCK 07-15-25

PROJECT ID

112312

SHEET

P.04

TOTAL

28

GR-1
& GR-2

GR-3
& GR-4

PV-1

PV-2

PV-1

PV-2

ITEM 202, PAVEMENT REMOVED
AREA DEDUCTION FOR APPROACH SLABS
REAR = FORWARD
APPROXIMATE WIDTH = 20.00'
ASSUMED LENGTH = 25.00'
AREA = 20.00' x 25.00' = 500.00 SF

PLAN MEASURED AREA = 3,160.19 SF
TOTAL = (3,160.19 SF - 500.00 SF) / 9 = **295.58 SY**

PAVEMENT PLAN MEASURED AREA = 2,722.53 SF
TOTAL = (2,722.53 SF - 500.00 SF) / 9 = **246.95 SY**

ITEM 204, SUBGRADE COMPACTION
STEP WIDTH = 1.50'

PAVEMENT PLAN MEASURED AREA = 2,699.05 SF
PAVEMENT EDGE LENGTH = 124.65'
APPROACH SLAB PLAN MEASURED AREA = 588.00 SF
APPROACH SLAB EDGE LENGTH = 28.63'

TOTAL = (2,669.05 SF + 124.65' x 1.50' + 588.00 SF + 28.63' x 1.50') / 9
= **387.44 SY**

PAVEMENT PLAN MEASURED AREA = 2,551.76 SF
PAVEMENT EDGE LENGTH = 225.11'
APPROACH SLAB PLAN MEASURED AREA = 588.00 SF
APPROACH SLAB EDGE LENGTH = 50.00'

TOTAL = (2,551.76 SF + 225.11' x 1.50' + 588.00 SF + 50.00' x 1.50') / 9
= **394.71 SY**

TOTAL SEEDED AREA = 229 SY (CARRIED FROM P.07)

ITEM 659 - SOIL ANALYSIS TEST
ONE TEST / 10,000 SY; 2 MINIMUM
TOTAL = 229 SY / 10,000 SY = 0.02 -> **2 EACH**

ITEM 659 - TOPSOIL
111 CY / 1,000 SY
TOTAL = 229 SY x 111 CY / 1,000 SY = **25.42 CY**

ITEM 659 - REPAIR SEEDING AND MULCHING
5% OF TOTAL AREA
TOTAL = 229 SY x 0.05 = **11.45 SY**

ITEM 659 - COMMERCIAL FERTILIZER
1 TON PER 7,410 SY
TOTAL = 229 SY x 1 TON / 7,410 SY = **0.03 TON**

ITEM 659 - LIME
1 ACRE = 4,840 SY
TOTAL = 229 SY x 1 ACRE / 4,840 SY = **0.05 ACRE**

ITEM 659 - WATER
2 APPLICATIONS
0.0027 M GALLONS PER SY
TOTAL = 229 SY x 2 x 0.0027 MGAL / SY = **1.24 MGAL**

BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL
LENGTH = 438.75'
1 REFLECTOR EVERY 100'
438.75' / 100' = 4.39
ROUND UP TO 5 + 1 = **6 EACH**

LENGTH = 329.25'
1 REFLECTOR EVERY 100'
329.25' / 100' = 3.29
ROUND UP TO 4 + 1 = **5 EACH**

ITEM 301 - ASPHALT CONCRETE BASE, PG64-22, (449)
MEASURED AREA OF ROADWAY = 2,699.05 SF
PAVEMENT EDGE LENGTH = 124.65'
PAVEMENT STEP OUT WIDTH = 4" = 0.33'
THICKNESS = 4" = 0.33'
TOTAL = (2,699.05 SF + 124.65' x 0.33') x 0.33' / 27 = **33.49 CY**

MEASURED AREA OF ROADWAY = 2,551.76 SF
PAVEMENT EDGE LENGTH = 225.11'
PAVEMENT STEP OUT WIDTH = 4" = 0.33'
THICKNESS = 4" = 0.33'
TOTAL = (2,551.76 SF + 225.11' x 0.33') x 0.33' / 27 = **32.10 CY**

ITEM 304 - AGGREGATE BASE
PAVEMENT PLAN MEASURED AREA = 2,699.05 SF
PAVEMENT EDGE LENGTH = 124.65'
PAVEMENT STEP OUT WIDTH = 10" = 0.83'
THICKNESS = 6" = 0.50'
SUBTOTAL = (2,699.05 SF + 124.65' x 0.83') x 0.50' / 27 = 51.90 CY

APPROACH SLAB PLAN MEASURED AREA = 588.00 SF
APPROACH SLAB EDGE LENGTH = 28.63'
APPROACH SLAB STEP OUT LENGTH = 6" = 0.50'
THICKNESS = 6" = 0.50'
SUBTOTAL = (588.00 SF + 28.63' x 0.50') x 0.50' / 27 = 11.15 CY
TOTAL = 51.90 CY + 11.15 CY = **63.05 CY**

PAVEMENT PLAN MEASURED AREA = 2,551.76 SF
PAVEMENT EDGE LENGTH = 225.11'
PAVEMENT STEP OUT WIDTH = 10" = 0.83'
THICKNESS = 6" = 0.50'
SUBTOTAL = (2,551.76 SF + 225.11' x 0.83') x 0.50' / 27 = 50.71 CY

APPROACH SLAB PLAN MEASURED AREA = 588.00 SF
APPROACH SLAB EDGE LENGTH = 50.00'
APPROACH SLAB STEP OUT LENGTH = 6" = 0.50'
THICKNESS = 6" = 0.50'
SUBTOTAL = (588.00 SF + 50.00' x 0.50') x 0.50' / 27 = 11.35 CY
TOTAL = 50.71 CY + 11.35 CY = **62.06 CY**

ITEM 407 - TACK COAT
MEASURED AREA OF ROADWAY = 2,699.05 SF
2 APPLICATIONS
APPLICATION RATE = 0.055 GAL/SY
TOTAL = 2,699.05 SF x 2 x 0.055 GAL/SY / 9 = **32.99 GAL**

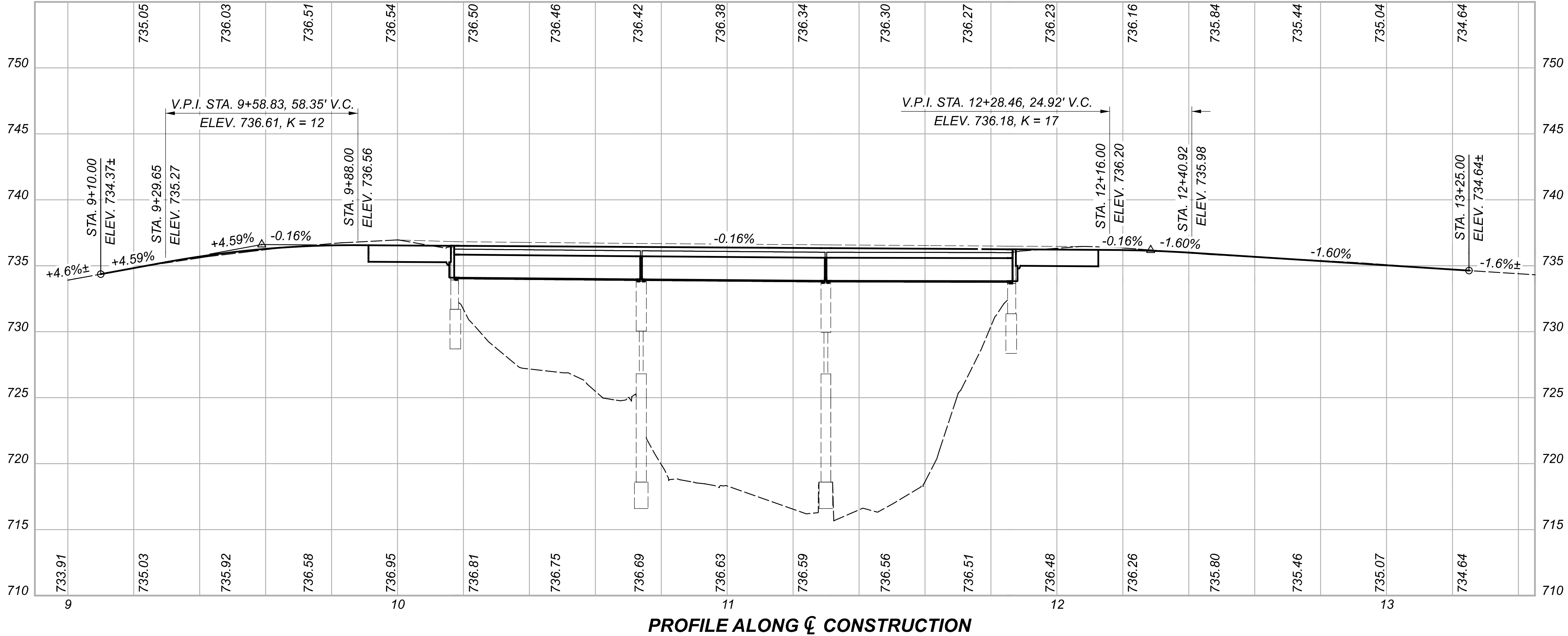
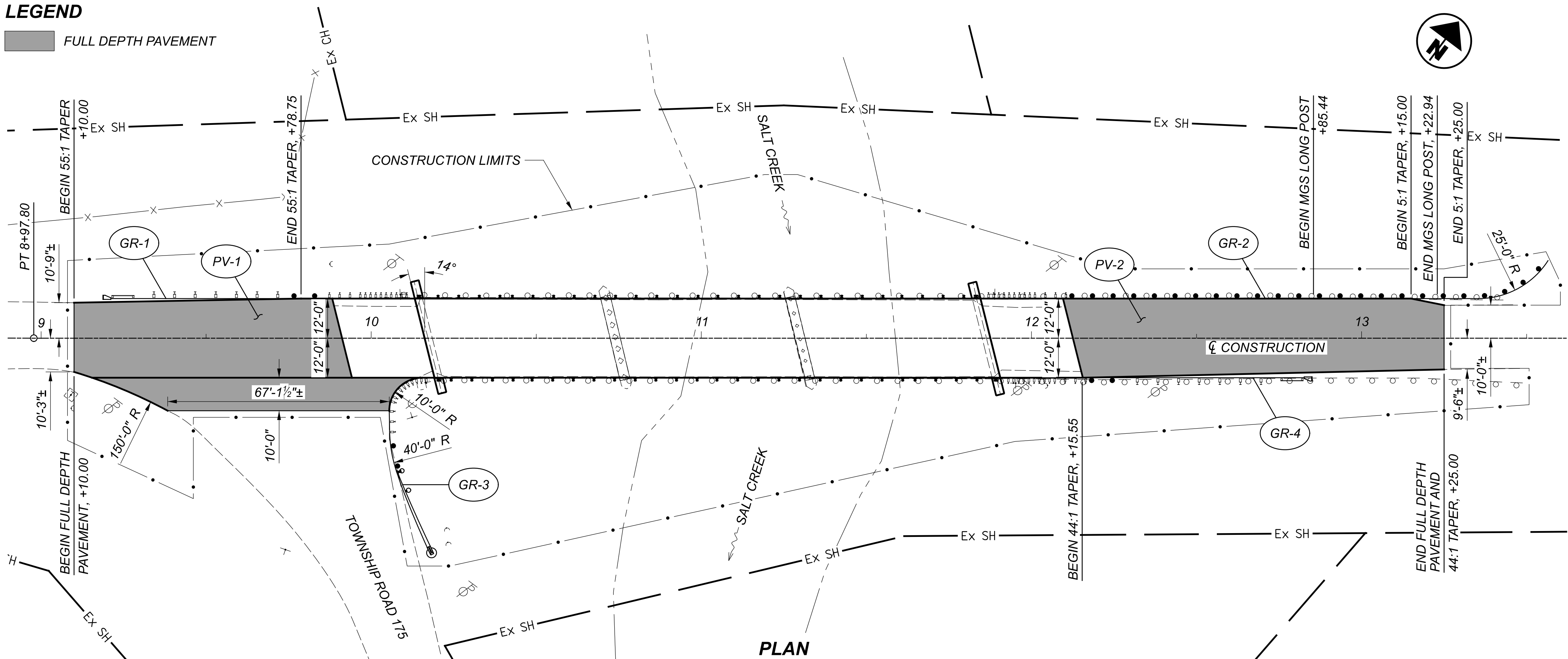
MEASURED AREA OF ROADWAY = 2,551.76 SF
2 APPLICATIONS
APPLICATION RATE = 0.055 GAL/SY
TOTAL = 2,551.76 SF x 2 x 0.055 GAL/SY / 9 = **31.19 GAL**

ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
THICKNESS = 3" = 0.25'

PAVEMENT PLAN MEASURED AREA = 2,699.05 SF
2,699.05 SF x 0.25' / 27 = **24.99 CY**

PAVEMENT PLAN MEASURED AREA = 2,551.76 SF
2,551.76 SF x 0.25' / 27 = **23.63 CY**

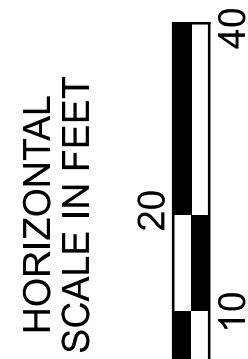
SHEET NUMBER				ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
P.04	P.06	P.07	P.15					
				201	11000	LS		ROADWAY
								CLEARING AND GRUBBING
	543			202	23000	543	SY	PAVEMENT REMOVED
	325			202	38000	325	FT	GUARDRAIL REMOVED
		216		203	10000	216	CY	EXCAVATION
		26		203	20000	26	CY	EMBANKMENT
	782			204	10000	782	SY	SUBGRADE COMPACTION
1				204	45000	1	hour	PROOF ROLLING
	137.5			606	15050	137.5	FT	GUARDRAIL, TYPE MGS
	37.5			606	15100	37.5	FT	GUARDRAIL, TYPE MGS WITH LONG POST
	1			606	25550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE A
	2			606	26150	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E
	1			606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T
	4			606	35002	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
								EROSION CONTROL
10				601	32200	10	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER
2				659	00100	2	EACH	SOIL ANALYSIS TEST
25				659	00300	25	CY	TOPSOIL
		229		659	10000	229	SY	SEEDING AND MULCHING
11				659	14000	11	SY	REPAIR SEEDING AND MULCHING
0.03				659	20000	0.03	TON	COMMERCIAL FERTILIZER
0.05				659	31000	0.05	ACRE	LIME
1				659	35000	1	MGAL	WATER
				832	30000	2,500	EACH	EROSION CONTROL
								DRAINAGE
70				605	31100	70	FT	AGGREGATE DRAINS
50				611	01400	50	FT	6" CONDUIT, TYPE E
50				611	01500	50	FT	6" CONDUIT, TYPE F
50				611	01800	50	FT	8" CONDUIT, TYPE B
								PAVEMENT
	65			301	56000	65	CY	ASPHALT CONCRETE BASE, PG64-22, (449)
	125			304	20000	125	CY	AGGREGATE BASE
	64			407	10000	64	GAL	TACK COAT
	49			441	70000	49	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
								TRAFFIC CONTROL
	11			626	00110	11	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL
		4		630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
		4		630	86002	4	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
		0.08		642	00300	0.08	MILE	CENTER LINE, TYPE 1
								STRUCTURE OVER 20 FOOT SPAN
								FOR ESTIMATED QUANTITIES, SEE SHEET P.18
								INCIDENTALS
				614	11000	LS		MAINTAINING TRAFFIC
				623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING
				624	10000	LS		MOBILIZATION

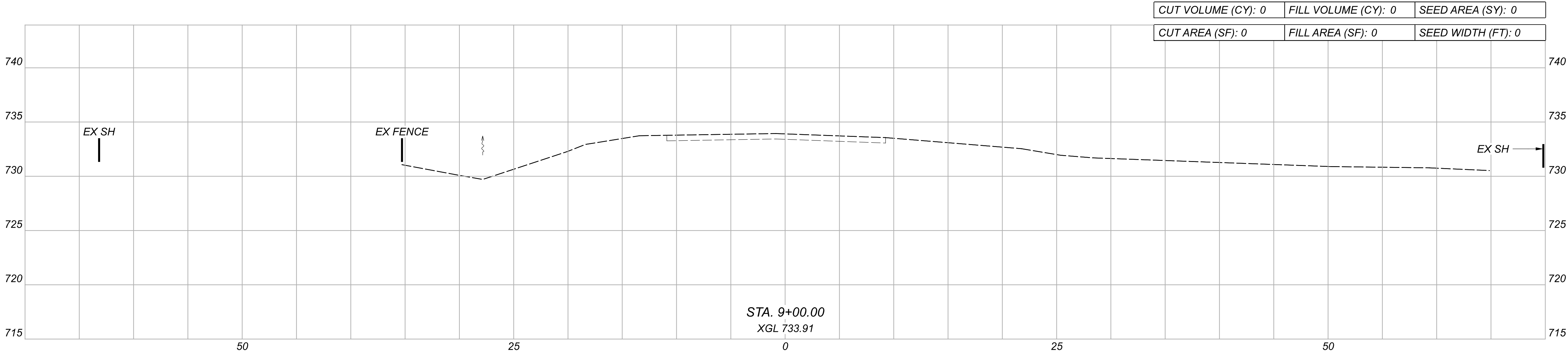
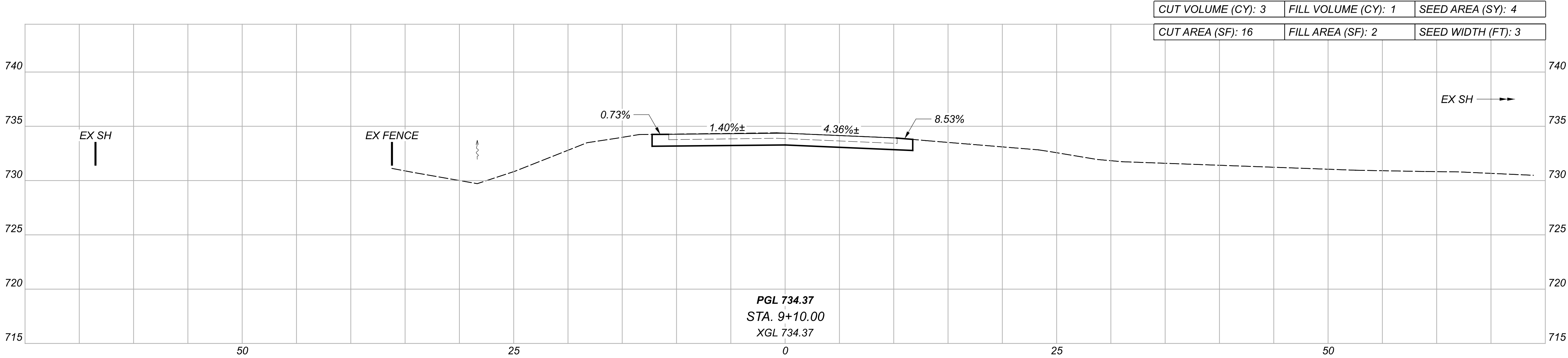


REF NO.	STATION	SIDE		TOLERANCE	QUANTITY	UNIT	TOTAL
		FROM	TO				
GR-1	9+21.69	10+12.32	LEFT	6	EACH	6	6
GR-2	11+85.44	13+56.48	LEFT	1	EACH	1	1
GR-3	10+05.46	10+18.29	RIGHT	1	EACH	1	1
GR-4	11+91.43	12+82.05	RIGHT	1	EACH	1	1
PV-1	9+10.00	10+15.46	LEFT/RIGHT				
PV-2	12+09.57	13+25.00	LEFT/RIGHT				
TOTALS CARRIED TO GENERAL SUMMARY							
626	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL				EACH		11
606	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1				EACH		4
606	ANCHOR ASSEMBLY, MGS TYPE T				EACH		1
606	ANCHOR ASSEMBLY, MGS TYPE E				EACH		2
606	ANCHOR ASSEMBLY, MGS TYPE A				EACH		1
606	GUARDRAIL, TYPE MGS WITH LONG POST				FT		37.5
606	GUARDRAIL, TYPE MGS				FT		137.5
441	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22				CY		49
407	TACK COAT				GAL		64
304	AGGREGATE BASE				CY		125
301	ASPHALT CONCRETE BASE, PG64-22, (449)				CY		65
204	SUBGRADE COMPACTION				SY		782
202	GUARDRAIL REMOVED				FT		325
202	PAVEMENT REMOVED				SY		543

PLAN AND PROFILE

STA. 8+90.00 TO STA. 13+60.00



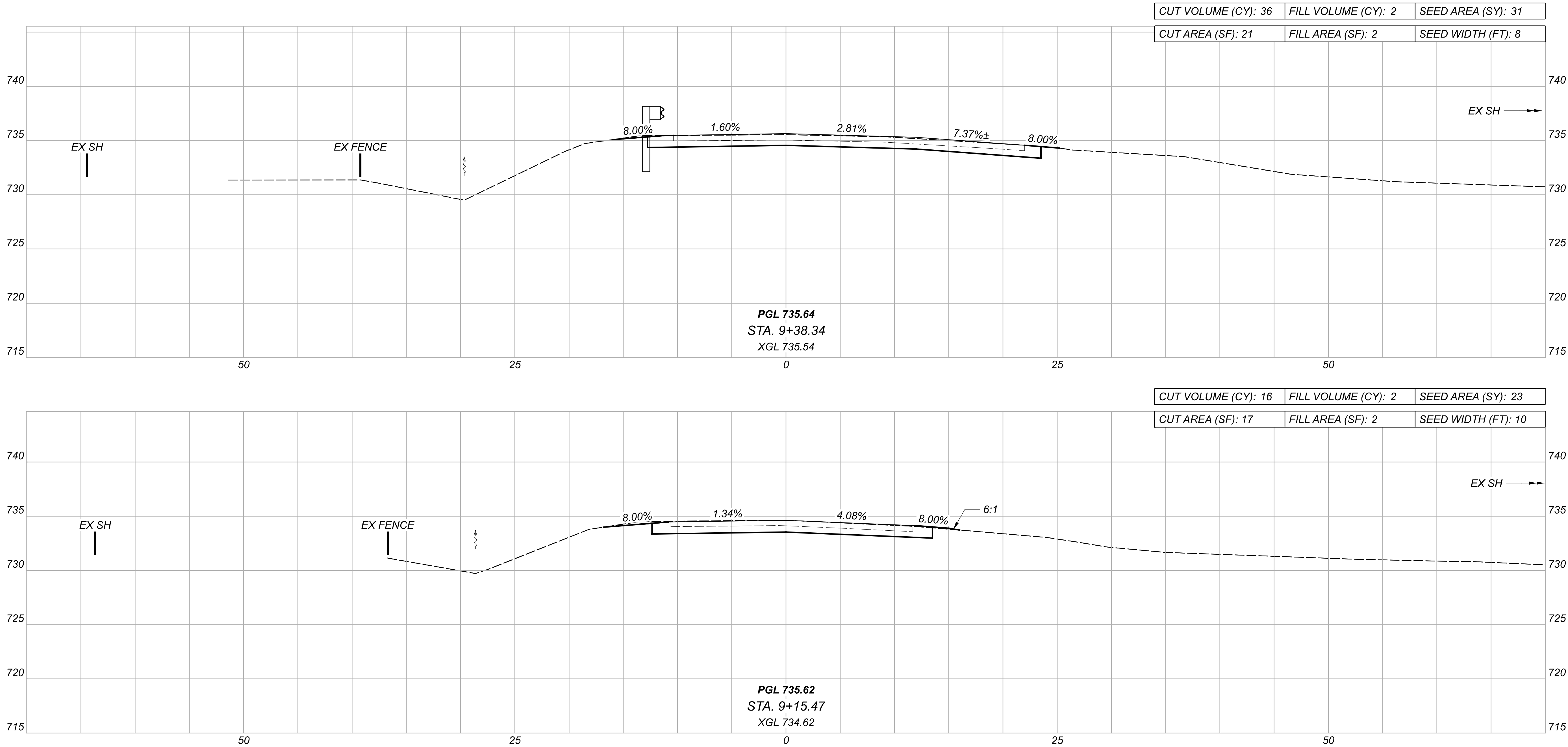


SHEET TOTAL:	CUT VOLUME (CY): 3	FILL VOLUME (CY): 1	SEED AREA (SY): 4
TOTALS CARRIED TO GENERAL SUMMARY:	CUT VOLUME (CY): 216	FILL VOLUME (CY): 26	SEED AREA (SY): 229

CROSS SECTIONS
STA. 9+00.00 TO STA. 9+10.00



DESIGNER	CAC
REVIEWER	BCK 07-15-25
PROJECT ID	112312
SHEET	P.07
TOTAL	28



CUT VOLUME (CY): 36	FILL VOLUME (CY): 2	SEED AREA (SY): 31
CUT AREA (SF): 21	FILL AREA (SF): 2	SEED WIDTH (FT): 8

CUT VOLUME (CY): 16	FILL VOLUME (CY): 2	SEED AREA (SY): 23
CUT AREA (SF): 17	FILL AREA (SF): 2	SEED WIDTH (FT): 10

SHEET TOTAL:	CUT VOLUME (CY): 52	FILL VOLUME (CY): 4	SEED AREA (SY): 54
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CROSS SECTIONS
STA. 9+15.47 TO STA. 9+38.34

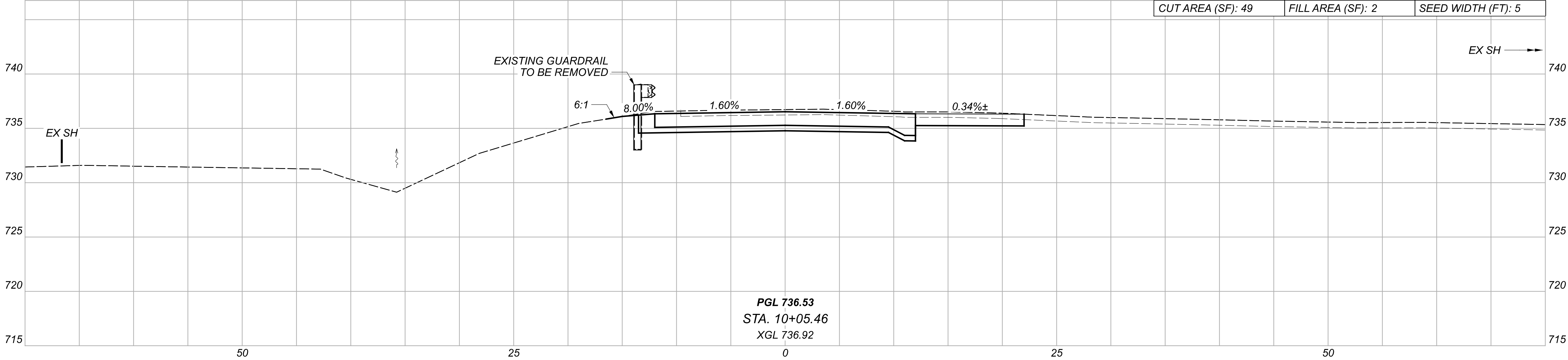


DESIGNER	CAC
REVIEWER	BCK 07-15-25
PROJECT ID	112312
SHEET	P.08
TOTAL	28

BRIDGE
BRIDGE LIMITS
STA. 10+16.19 TO 11+87.56

ADJUSTMENT FOR BRIDGE:	CUT VOLUME (CY): 30	FILL VOLUME (CY): 2	SEED AREA (SY): 13
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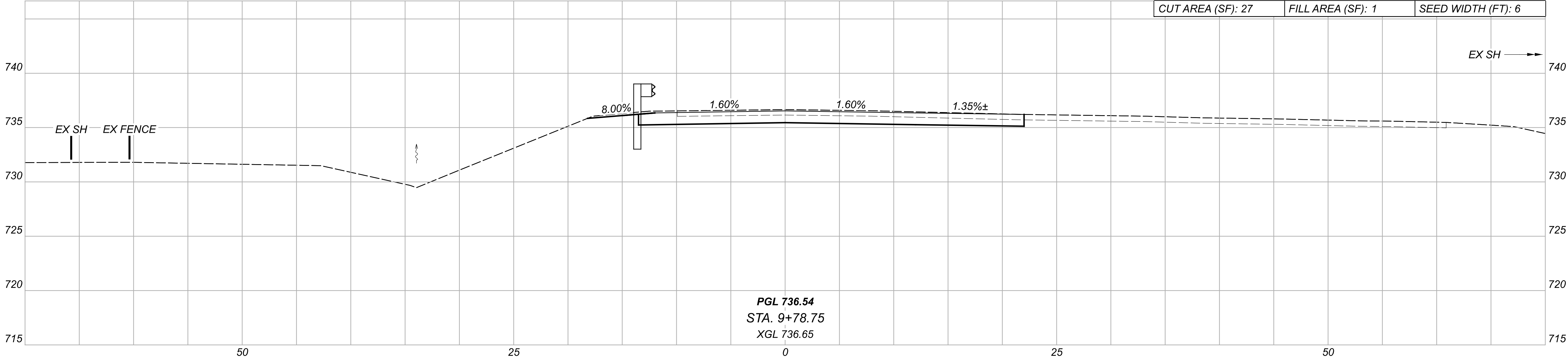
CUT AREA (SF): 49	FILL AREA (SF): 2	SEED WIDTH (FT): 5
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PGL 736.53
STA. 10+05.46
XGL 736.92

CUT VOLUME (CY): 37	FILL VOLUME (CY): 1	SEED AREA (SY): 16
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CUT AREA (SF): 27	FILL AREA (SF): 1	SEED WIDTH (FT): 6
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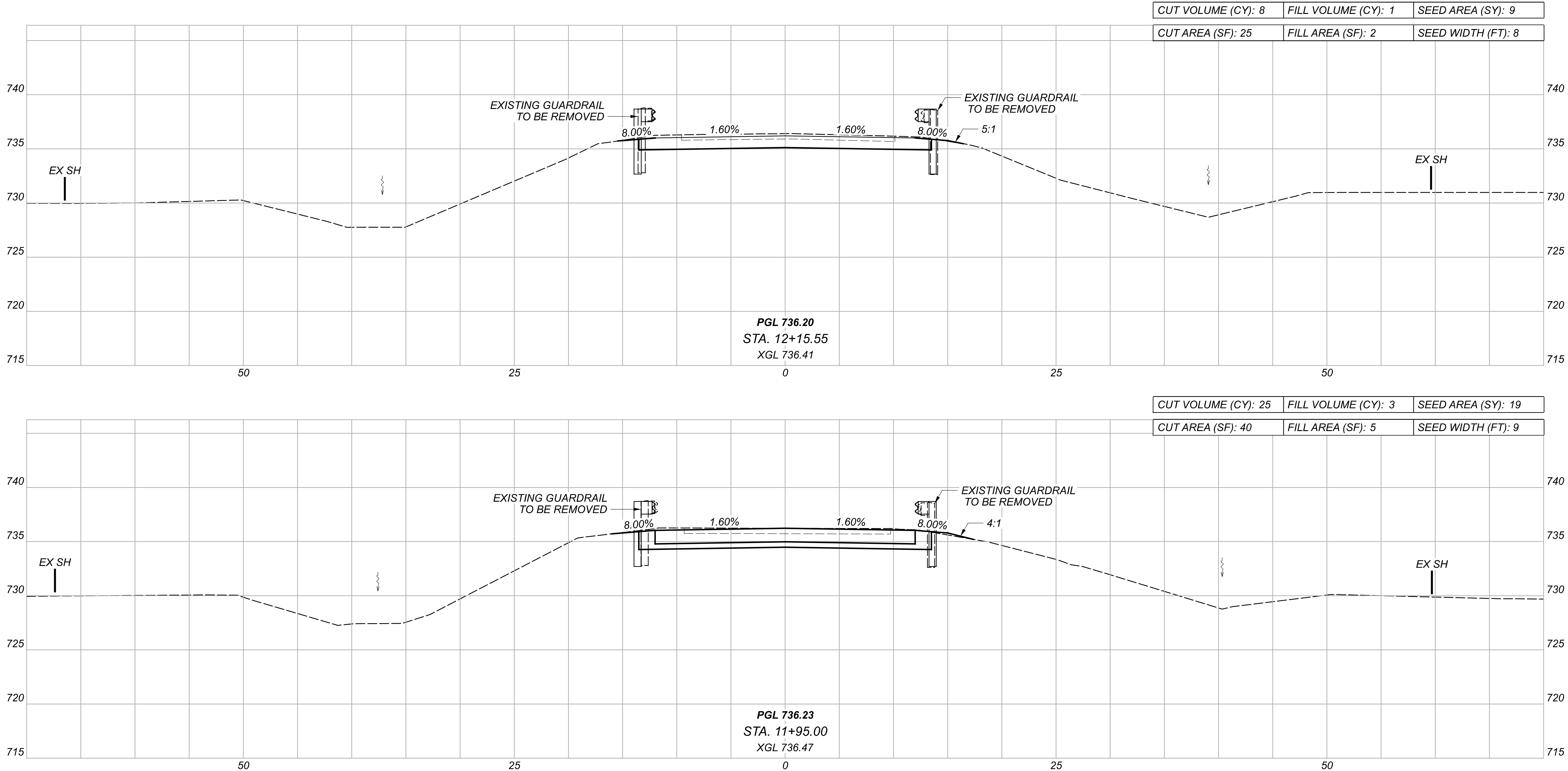


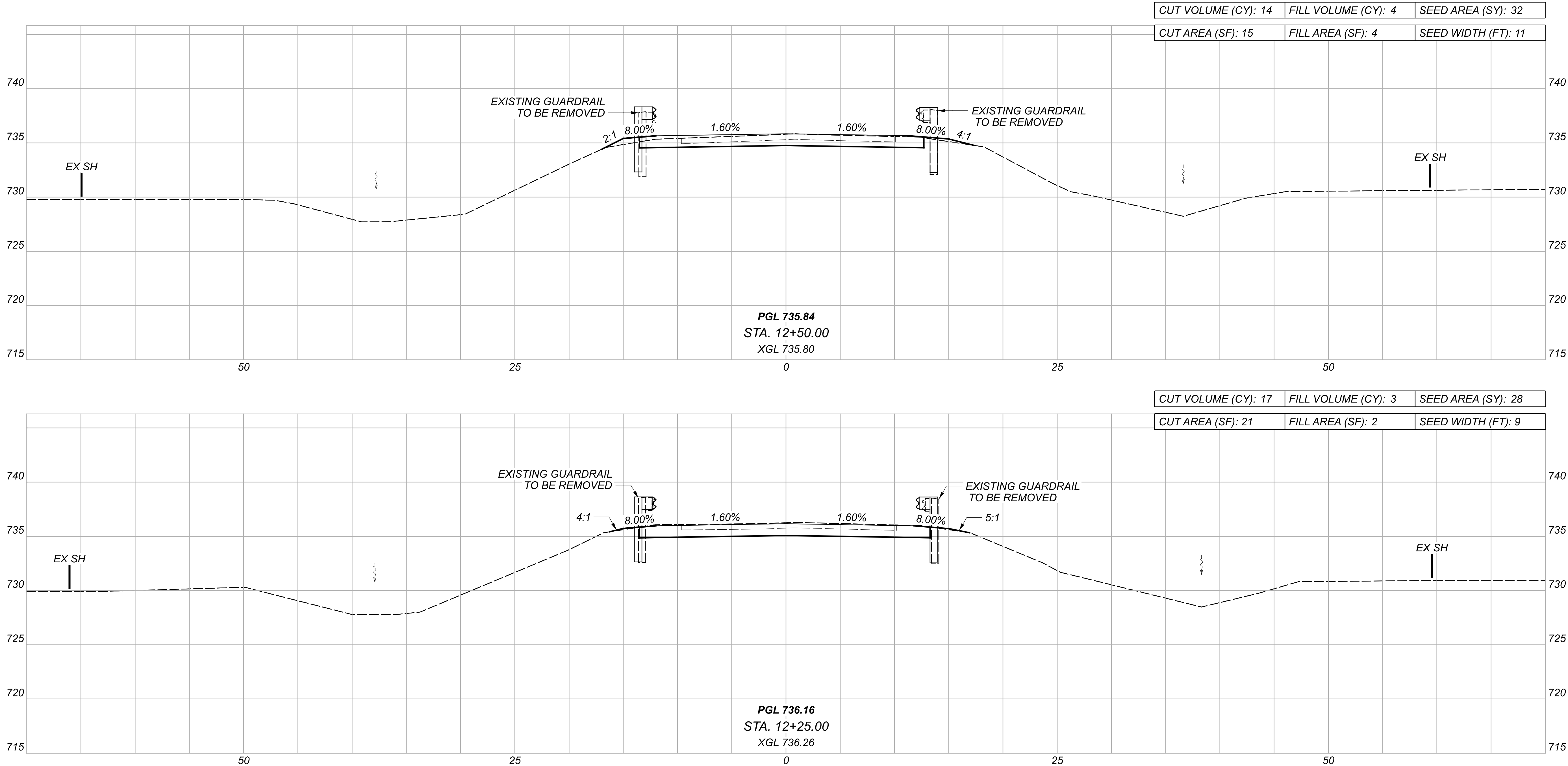
PGL 736.54
STA. 9+78.75
XGL 736.65

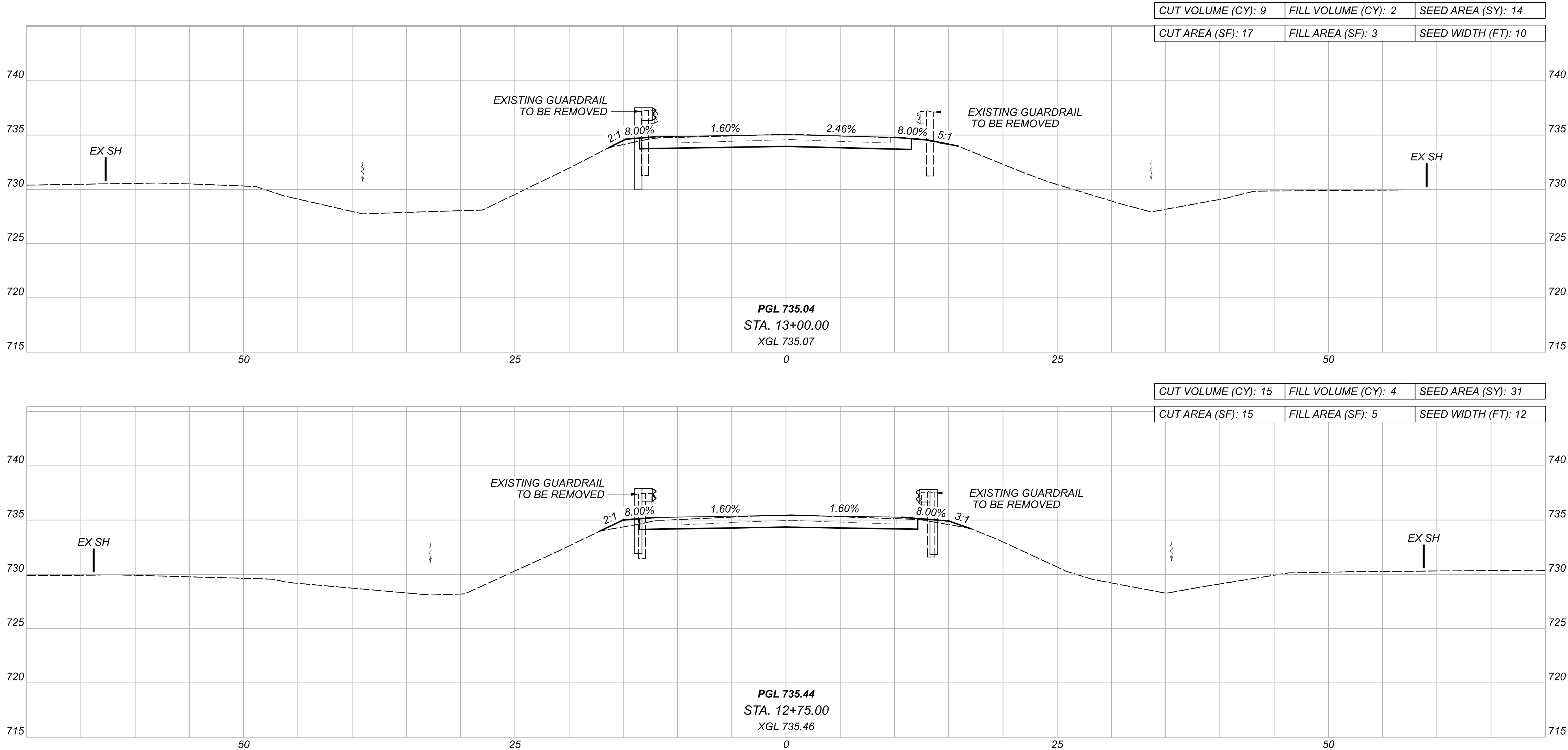
SHEET TOTAL:	CUT VOLUME (CY): 67	FILL VOLUME (CY): 3	SEED AREA (SY): 29
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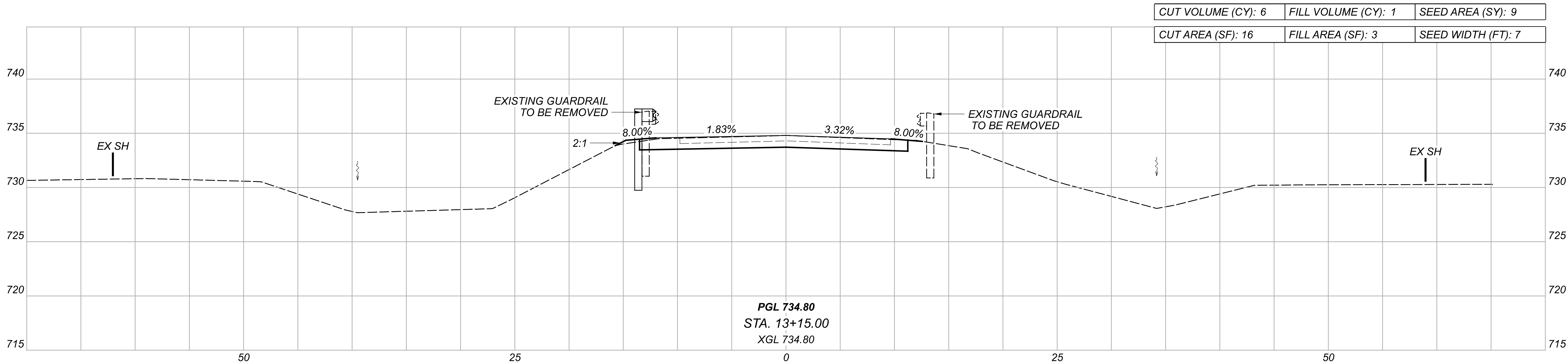
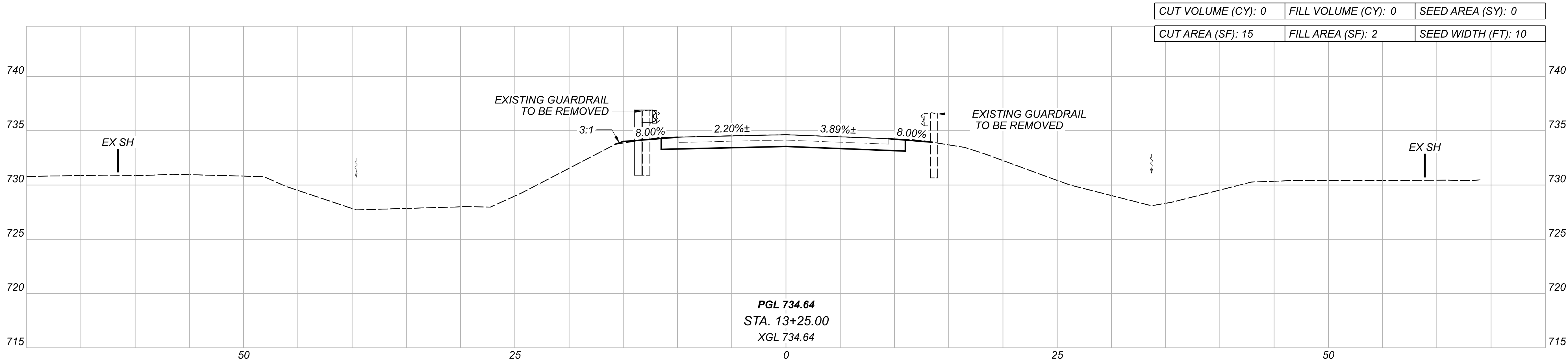
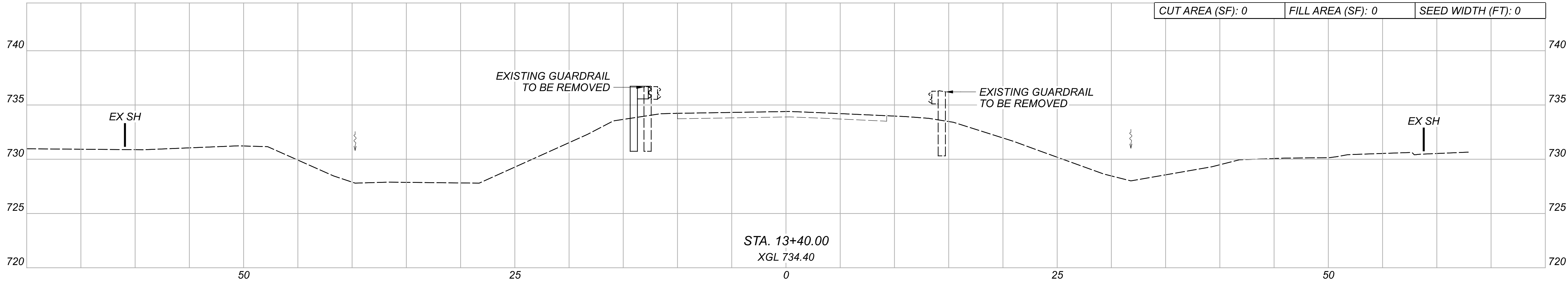


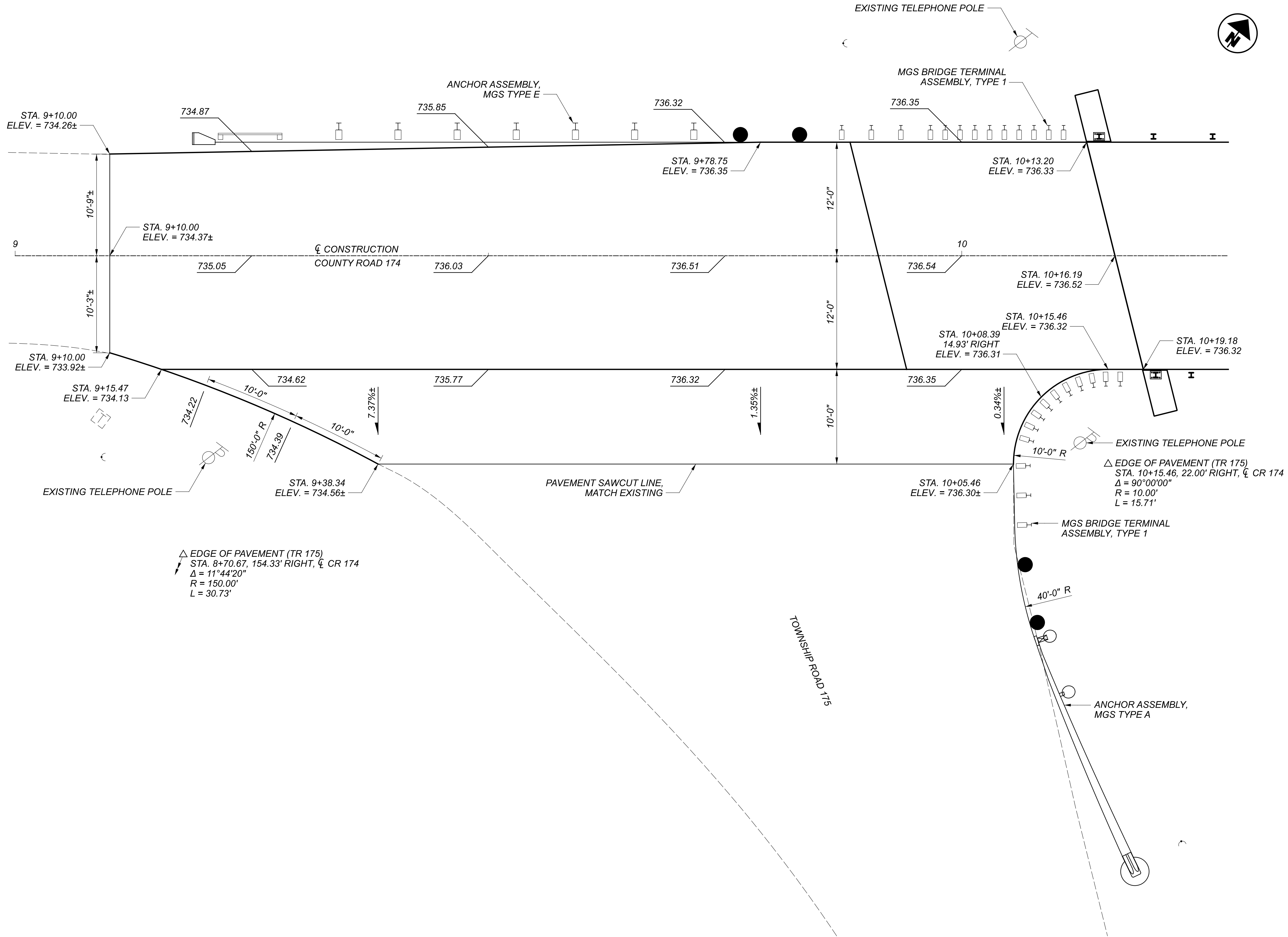
DESIGNER	CAC
REVIEWER	BCK
PROJECT ID	07-15-25
SHEET	112312
TOTAL	28



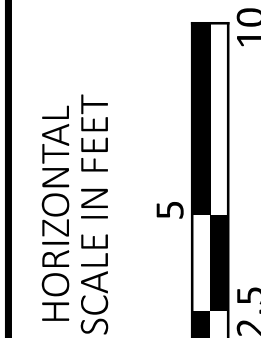








INTERSECTION DETAIL
CR 174 & TR 175



DESIGN AGENCY



DESIGNER

CAC

REVIEWER

BCK 07-15-25

PROJECT ID

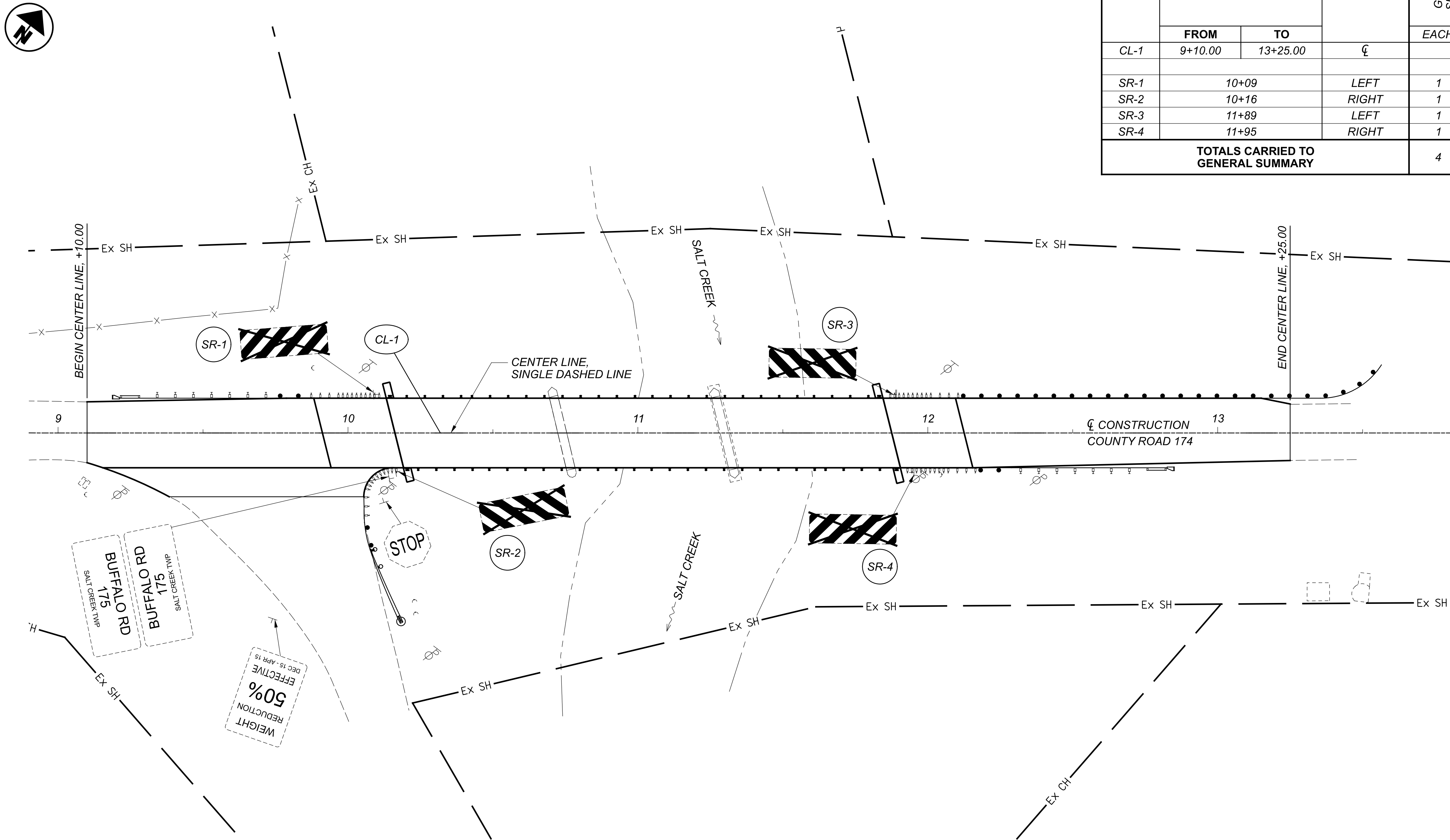
112312

SHEET

P.14

TOTAL

28



REF NO.	STATION		SIDE	630	630	642
				REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	CENTER LINE, TYPE 1
	FROM	TO		EACH	EACH	MILE
CL-1	9+10.00	13+25.00	℄			0.08
SR-1	10+09		LEFT	1	1	
SR-2	10+16		RIGHT	1	1	
SR-3	11+89		LEFT	1	1	
SR-4	11+95		RIGHT	1	1	
TOTALS CARRIED TO GENERAL SUMMARY				4	4	0.08

TRAFFIC CONTROL PLAN

DESIGN AGENCY



DESIGNER

CAC

REVIEWER

BCK 07-15-25

PROJECT ID

112312

SHEET

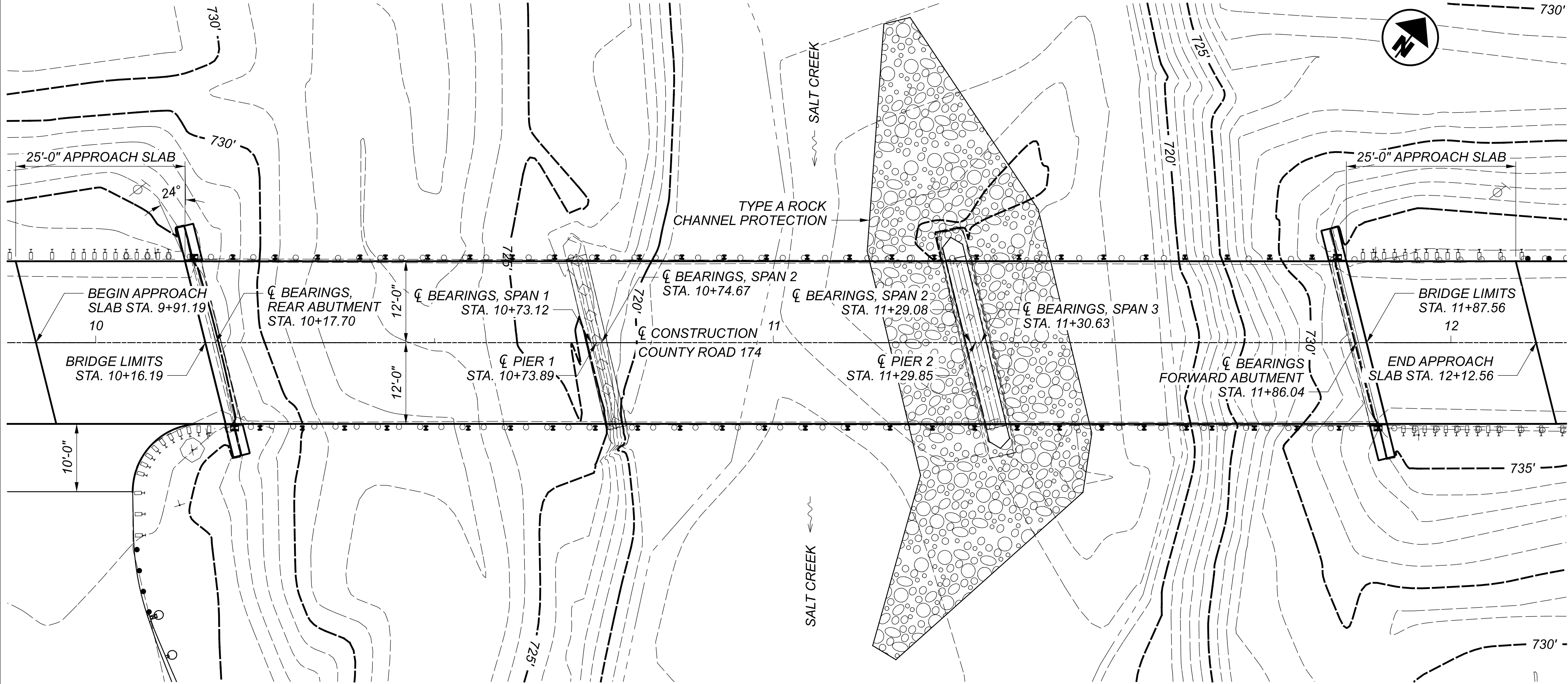
P.15

TOTAL

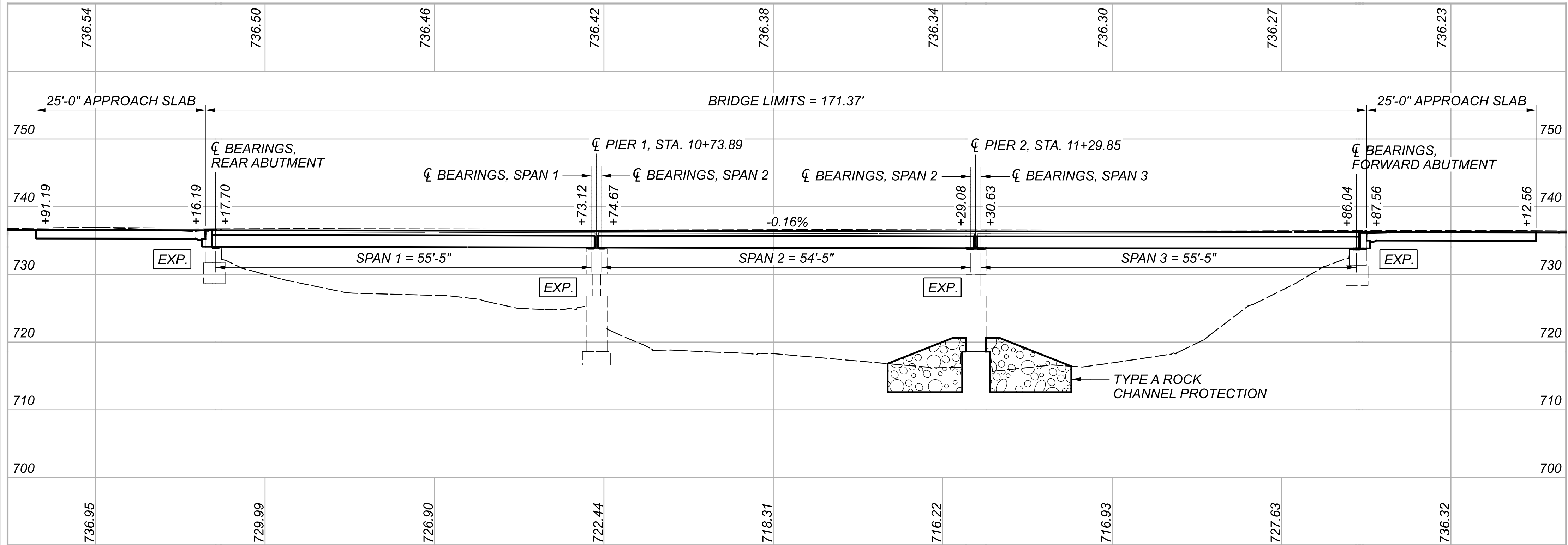
28

HORIZONTAL
SCALE IN FEET





PLAN



PROFILE ALONG ζ CONSTRUCTION

BENCHMARK DATA

BM1 STA. 10+40.93, ELEV. 733.16, OFFSET 151.57' RIGHT
BM2 STA. 13+86.41, ELEV. 731.41, OFFSET 23.25' LEFT

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET P.02.

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2015 ADT = 153
2041 ADT = 212

LEGEND

TYPE A ROCK CHANNEL PROTECTION

EXISTING STRUCTURE

TYPE: THREE SPAN, NON-COMPOSITE, PRESTRESSED CONCRETE BOX BEAMS WITH BITUMINOUS WEARING SURFACE ON CAPPED PIPE ABUTMENTS AND PIERS

SPANS: 55'-5"±, 54'-5"±, 55'-5"±

ROADWAY: 24'± F/F RAIL

LOADING: HS-20-44

SKEW: 14°± RIGHT FORWARD

WEARING SURFACE: BITUMINOUS

APPROACH SLABS: EXISTING LENGTH UNKNOWN

ALIGNMENT: TANGENT

CROWN: 0.02± FT/FT

STRUCTURE FILE NUMBER: 3731731

DATE BUILT: 9/1/1974

DISPOSITION: SUPERSTRUCTURE TO BE REPLACED

PROPOSED STRUCTURE

TYPE: THREE SPAN, COMPOSITE, PRESTRESSED CONCRETE BOX BEAM SUPERSTRUCTURE ON EXISTING SUBSTRUCTURE

SPANS: 55'-5", 54'-5", 55'-5"

ROADWAY: 24' F/F RAIL

LOADING: HL93 AND 60 PSF FUTURE WEARING SURFACE

SKEW: 14° RIGHT FORWARD

WEARING SURFACE: 1" MONOLITHIC CONCRETE

APPROACH SLABS: 25' LONG (AS-1-15)

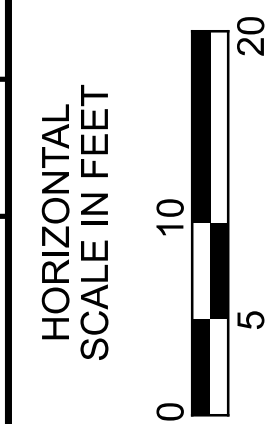
ALIGNMENT: TANGENT

CROWN: 0.016 FT/FT

DECK AREA: 4,113 SF

COORDINATES: LATITUDE 39°27'46.93" NORTH

LONGITUDE 82°44'07.89" WEST



SFN

3731731

DESIGN AGENCY



DESIGNER CHECKER

CAC BCK

REVIEWER

NDM 06-10-25

PROJECT ID

112312

SUBSET TOTAL

1 13

SHEET TOTAL

P.16 28

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD DRAWINGS

- AS-1-15REVISED 1/20/23
- BD-1-11REVISED 7/20/18
- DS-1-92REVISED 7/15/22
- PSBD-2-07REVISED 7/20/18
- TST-1-99REVISED 1/15/21

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS

- SS800DATED 7/18/25
- SS832DATED 7/18/25

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.

DESIGN LOADING

DESIGN LOADING INCLUDES:

- VEHICULAR LIVE LOAD: HL-93
- FUTURE WEARING SURFACE OF 0.060 KSF

DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI
(SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI
(SUBSTRUCTURE)

EPOXY COATED STEEL REINFORCEMENT - MINIMUM YIELD
STRENGTH 60 KSI

ADDITIONAL DATA FOR PRESTRESSED CONCRETE MEMBERS:

- CONCRETE FOR PRESTRESSED BEAMS:
- COMPRESSIVE STRENGTH (FINAL) 5.5 KSI
- COMPRESSIVE STRENGTH (RELEASE) 4.0 KSI

- PRESTRESSING STRAND:
- AREA = 0.167 SQ IN
- ULTIMATE STRENGTH = 270 KSI
- INITIAL STRESS = 202.5 KSI (LOW RELAXATION)

MONOLITHIC WEARING SURFACE

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

BEARING PAD SHIMS, PRESTRESSED

PLACE 1⁄8" THICK PREFORMED BEARING PAD SHIMS, PLAN AREA 11 INCHES BY 11 INCHES, UNDER THE ELASTOMERIC BEARING PADS WHERE REQUIRED FOR PROPER BEARING. FURNISH TWO SHIMS PER BEAM. THE COUNTY WILL MEASURE THIS ITEM BY THE TOTAL NUMBER SUPPLIED. THE COUNTY WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516 - 1⁄8" PREFORMED BEARING PADS, TYPE CDP. ANY UNUSED SHIMS WILL BECOME THE PROPERTY OF THE COUNTY.

PATCHING CONCRETE SURFACES, AS PER PLAN

PILE ENCASEMENT AT PIERS SHALL BE PATCHED PER C&MS 519. THE FOLLOWING ESTIMATED QUANTITY SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER:

ITEM 519, PATCHING CONCRETE STRUCTURE, AS PER PLAN
25 SF

ITEM 512, SEALING OF CONCRETE SURFACES

SEAL ALL EXPOSED CONCRETE OF THE NEW AND EXISTING ABUTMENTS AND PIERS. THE FOLLOWING ESTIMATED QUANTITY HAVE BEEN CARRIED TO THE GENERAL SUMMARY

ITEM 512, SEALING OF CONCRETE SURFACES184 SY

ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR THE WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE COUNTY WILL NOT PERMIT THE USE OF EXPLOSIVES, HEADACHE BALLS, AND/OR HOE-RAMS. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE, OR DAMAGE THE EXISTING CONCRETE REINFORCEMENT TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

BEAM SEAT ELEVATIONS

EXISITING BEAM SEATS SHALL REMAIN AT ABUTMENTS AND PIERS. DECK THICKNESS MAY VARY DUE TO INCONSISTENCIES IN BEAM SEAT ELEVATIONS. A MINIMUM DECK THICKNESS OF 6" SHALL BE MAINTAINED.

REAR ABUTMENT

MARK	NUMBER	LENGTH	WEIGHT (LBS.)	DIMENSION			
				TYPE	A	B	C
AR501	4	12'-6"	52	2	4'-11"	2'-2"	5'-8"
AR502	7	4'-3"	31	STR			
AR503	5	12'-8"	66	2	5'-0"	2'-2"	5'-9"
AR504	7	5'-0"	37	STR			
TOTAL			186				

FORWARD ABUTMENT

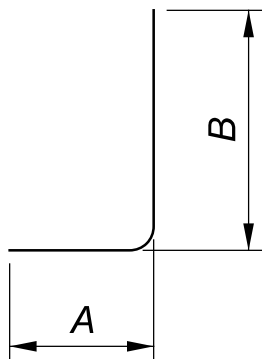
MARK	NUMBER	LENGTH	WEIGHT (LBS.)	DIMENSION			
				TYPE	A	B	C
AF501	4	12'-10"	54	2	5'-1"	2'-2"	5'-10"
AF502	7	4'-5"	32	STR			
AF503	5	12'-8"	66	2	5'-0"	2'-2"	5'-9"
AF504	7	4'-4"	32	STR			
TOTAL			184				

SUPERSTRUCTURE

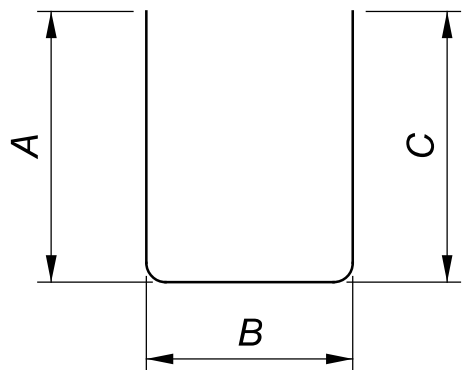
MARK	NUMBER	LENGTH	WEIGHT (LBS.)	DIMENSION			
				TYPE	A	B	C
S401	8	24'-4"	130	STR			
S501	36	6'-2"	232	3	0'-8"	2'-1"	
S502	36	4'-4"	163	3	1'-2"	0'-8"	
S503	48	3'-10"	192	17	2'-8"		
S601	244	24'-4"	8,918	STR			
S602	85	37'-5"	4,777	STR			
S603	32	22'-2"	1,065	STR			
S604	144	3'-9"	811	1	2'-11"	1'-0"	
D801	36	4'-10"	465	18	2'-8"	1'-0"	1'-0"
TOTAL			16,753				

APPROACH SLABS (FOR REFERENCE ONLY)

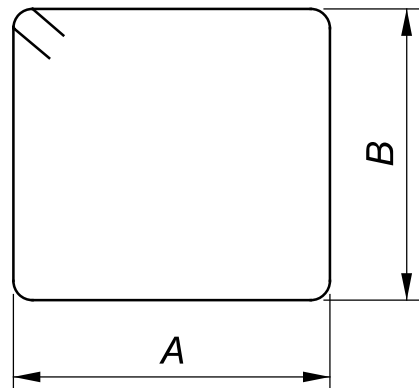
MARK	NUMBER			LENGTH	WEIGHT (LBS.)	DIMENSION				
	REAR	FWD	TOTAL			TYPE	A	B	C	D
AS501	48	48	96	24'-6"	2,453	STR				
AS502	89	89	178	24'-2"	4,487	STR				
AS503	38	-	38	4'-9"	188	19	3'-1"	1'-6"	0'-9"	
AS504	38	-	38	3'-8"	145	10	1'-6"	0'-9"	0'-8"	1'-6"
AS1001	45	42	87	25'-11"	9,702	16	24'-6"			
TOTAL					16,975					



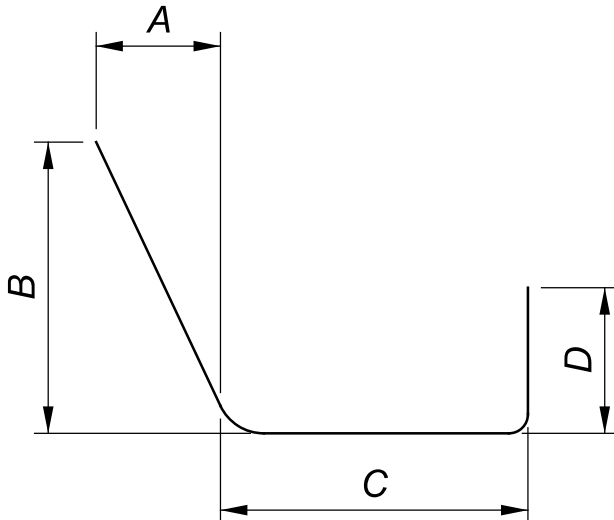
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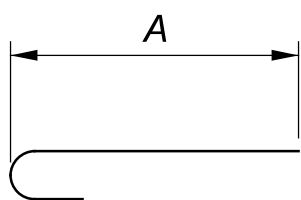
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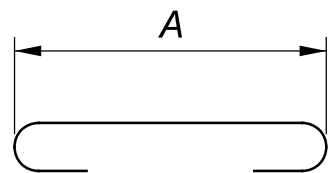
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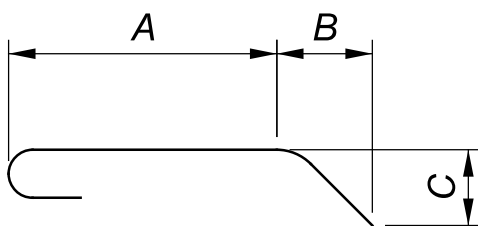
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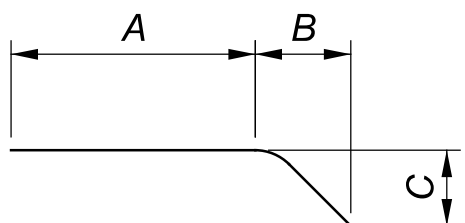
TYPE-16



TYPE-17



TYPE-18



TYPE-19

STRUCTURE ESTIMATED QUANTITIES									
ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUTMENTS		PIER 1	PIER 2	SUPER.
					REAR	FWD.			
202	11201	LS		PORTIONS OF STRUCTURE REMOVED AS PER PLAN					
202	22900	111	SY	APPROACH SLAB REMOVED					111
202	23500	551	SY	WEARING COURSE REMOVED					551
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING					
503	21300	LS		UNCLASSIFIED EXCAVATION					
509	10000	17,123	LB	EPOXY COATED STEEL REINFORCEMENT	186	184			16,753
510	10000	18	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	9	9			
511	31610	96	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE					96
511	50210	10	CY	CLASS QC1 CONCRETE, SUBSTRUCTURE	5	5			
512	10000	184	SY	SEALING OF CONCRETE SURFACES	17	16	20	26	105
515	12050	6	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-48, 55.45'					6
515	12050	12	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB21-48, 56.45'					12
516	13600	24	SF	1" PREFORMED EXPANSION JOINT FILLER	12	12			
516	14020	56	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	28	28			
516	41100	36	EACH	1/8" PREFORMED BEARING PAD, TYPE CDP					36
516	43200	72	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), 2" x 11" x 11"					72
517	70000	347	FT	RAILING (TWIN STEEL TUBE)					347
518	21200	35	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	18	17			
518	40000	70	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	35	35			
518	40010	60	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	32	28			
519	11101	25	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN					
601	32010	439	CY	ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER				439	
611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET	2	2			
SPECIAL	518E22300	413.54	FT	STEEL DRIP STRIP					413.54

ESTIMATED QUANTITIES
BRIDGE NO.: HOC-CR174-0030
OVER SALT CREEK

SFN
3731731

DESIGN AGENCY

ADR

DESIGN • ENGINEERING • INNOVATION

An Employee Owned Company

88 West Church Street
Newark, OH 43055
(740) 345-1921 (ph)
www.adrinnovation.com

DESIGNER
CAC

CHECKER
JTH

REVIEWER
BCK 07-29-25

PROJECT ID
112312

SUBSET
3

TOTAL
13

SHEET
P.18

TOTAL
28

ITEM 202 - APPROACH SLAB REMOVED

REAR AND FORWARD = 2
APPROXIMATE WIDTH = 20.00'
ASSUMED LENGTH = 25.00'
TOTAL = 2 x 20.00' x 25.00' / 9 = **111.11 SY**

ITEM 202 - WEARING COURSE REMOVED

PLAN MEASURED AREA = 3,960.49 SF

ADDITIONAL AREA FOR APPROACH SLAB
REAR AND FORWARD = 2
APPROXIMATE WIDTH = 20.00'
ASSUMED LENGTH = 25.00'

TOTAL = (3,960.49 SF + 2 x 20.00' x 25.00') / 9 = **551.17 SY**

ITEM 511 - CLASS QC2 CONCRETE, SUPERSTRUCTURE

DECK

WIDTH = 24.00'
LENGTH = 171.37'
AVERAGE DECK THICKNESS = (6" + 7.875") / 2 = 6.94" = 0.58'
SUBTOTAL = 24.00' x 171.37' x 0.58' / 27 = 88.35 CY

DIAPHRAGMS

REAR AND FORWARD (2)
HEIGHT = 1.75'
WIDTH = 1.50'
LENGTH = 24.73'
HEIGHT OF NOTCH = 0.58'
WIDTH OF NOTCH = 0.50'
SUBTOTAL = 2 x ((1.75' x 1.50' - 0.58' x 0.50') x 24.73') / 27 = 4.28 CY

BEAM CONNECTION OVER PIER

NUMBER OF PIERS = 2
STEM HEIGHT = 1.17'
STEM WIDTH = 0.50'
LENGTH = 24.73'
FLANGE HEIGHT = 0.58'
FLANGE WIDTH = 2.50'
SUBTOTAL = 2 x ((1.17' x 0.50' + 0.58' x 2.50') x 24.73') / 27 = 3.73 CY

TOTAL = 88.35 CY + 4.28 CY + 3.73 CY = **96.36 CY**

ITEM 511 - CLASS QC1 CONCRETE, SUBSTRUCTURE

RIGHT REAR WINGWALL

WIDTH = 2.50'
LENGTH = 4.61'
HEIGHT = 5.30'
SUBTOTAL = 2.50' x 4.61' x 5.30' / 27 = 2.26 CY

LEFT REAR WINGWALL

WIDTH = 2.50'
LENGTH = 5.36'
HEIGHT = 5.38'
SUBTOTAL = 2.50' x 5.36' x 5.38' / 27 = 2.67 CY

TOTAL = 2.26 CY + 2.67 CY = **4.93 CY**

RIGHT FORWARD WINGWALL

WIDTH = 2.50'
LENGTH = 4.70'
HEIGHT = 5.40'
SUBTOTAL = 2.50' x 4.70' x 5.40' / 27 = 2.35 CY

LEFT FORWARD WINGWALL

WIDTH = 2.50'
LENGTH = 4.80'
HEIGHT = 5.42'
SUBTOTAL = 2.50' x 4.80' x 5.42' / 27 = 2.41 CY

TOTAL = 2.35 CY + 2.41 CY = **4.76 CY**

ITEM 512 - SEALING OF CONCRETE SURFACES

APPROXIMATE AREA BEHIND WINGWALLS = 2.00 SF

APPROXIMATE AREA AT END OF WINGWALLS = 6.50 SF

APPROXIMATE HEIGHT OF FRONT FACE = 3.91'

RIGHT REAR WINGWALL

WIDTH = 2.50'
LENGTH = 4.61'
SUBTOTAL = (2.00 SF + 6.50 SF + (3.91' + 2.50') x 4.61') / 9 = 4.23 SY

LEFT REAR WINGWALL

WIDTH = 2.50'
LENGTH = 5.36'
SUBTOTAL = (2.00 SF + 6.50 SF + (3.91' + 2.50') x 5.36') / 9 = 4.76 SY

REAR BREASTWALL

LENGTH = 24.84'
APPROXIMATE HEIGHT = 1.73'
SUBTOTAL = (24.84' x 1.73') / 9 = 4.77 SY

REAR BEAM SEAT

LENGTH = 24.86'
WIDTH = 1.28'
SUBTOTAL = (24.86' x 1.28') / 9 = 3.54 SY

TOTAL = 4.23 SY + 4.76 SY + 4.77 SY + 3.54 SY = **17.30 SY**

RIGHT FORWARD WINGWALL

WIDTH = 2.50'
LENGTH = 4.70'
SUBTOTAL = (2.00 SF + 6.50 SF + (3.91' + 2.50') x 4.70') / 9 = 4.29 SY

LEFT FORWARD WINGWALL

WIDTH = 2.50'
LENGTH = 4.80'
SUBTOTAL = (2.00 SF + 6.50 SF + (3.91' + 2.50') x 4.80') / 9 = 4.37 SY

FORWARD BREASTWALL

LENGTH = 24.86'
APPROXIMATE HEIGHT = 1.29'
SUBTOTAL = (24.86' x 1.29') / 9 = 3.56 SY

FORWARD BEAM SEAT

LENGTH = 24.89'
WIDTH = 1.27'
SUBTOTAL = (24.89' x 1.27') / 9 = 3.51 SY

TOTAL = 4.29 SY + 4.37 SY + 3.56 SY + 3.51 = **15.73 SY**

PIER 1

EACH SIDE = 2
APPROXIMATE WIDTH ALONG PIER CAP = 3.04'
APPROXIMATE HEIGHT OF PIER CAP = 3.75'
APPROXIMATE LENGTH OF PIER CAP = 3.24'
APPROXIMATE HEIGHT OF CONCRETE PILE = 3.24'
APPROXIMATE DIAMETER OF CONCRETE PILE = 1.75'
APPROXIMATE LENGTH OF PILE ENCASEMENT = 6.69'
APPROXIMATE EXPOSED HEIGHT OF PILE ENCASEMENT = 3.27'
APPROXIMATE RADIUS OF PILE ENCASEMENT = 1.50'
APPROXIMATE PLAN MEASURED TOP AREA OF PILE ENCASEMENT = 10.52 SF

TOTAL = 2 x ((3.04' + 3.24') x 3.75' + (π x 3.24' x 1.75') + (6.69' + π x 1.50) x 3.27' + 10.52 SF) / 9 = **19.82 SY**

ITEM 512 - SEALING OF CONCRETE SURFACES (CONT.)

PIER 2

EACH SIDE = 2
APPROXIMATE WIDTH ALONG PIER CAP = 2.88'
APPROXIMATE HEIGHT OF PIER CAP = 3.75'
APPROXIMATE LENGTH OF PIER CAP = 3.06'
APPROXIMATE HEIGHT OF CONCRETE PILE = 3.14'
APPROXIMATE DIAMETER OF CONCRETE PILE = 1.167'
APPROXIMATE LENGTH OF PILE ENCASEMENT = 6.77'
APPROXIMATE EXPOSED HEIGHT OF PILE ENCASEMENT = 6.20'
APPROXIMATE RADIUS OF PILE ENCASEMENT = 1.50'
APPROXIMATE PLAN MEASURED TOP AREA OF PILE ENCASEMENT = 10.64 SF

TOTAL = 2 x ((2.88' + 3.06') x 3.75' + (π x 3.14' x 1.167') + (6.77' + π x 1.50) x 6.20' + 10.64 SF) / 9 = **25.69 SY**

DECK

EACH SIDE = 2
LENGTH BETWEEN ABUTMENTS = 166.27'
AVERAGE DECK THICKNESS = (6" + 7.875") / 2 = 6.94" = 0.58'
HEIGHT OF BEAM = 21" = 1.75'
WIDTH UNDER BEAM = 6" = 0.50'

TOTAL = 2 x 166.27' x (0.58' + 1.75' + 0.50') / 9 = **104.57 SY**

ITEM 516 - 1" PREFORMED EXPANSION JOINT FILLER

REAR ABUTMENT = FORWARD ABUTMENT

HEIGHT = 2.42'
WIDTH = 2.58'
NUMBER = 2

TOTAL = 2 x 2.42' x 2.58' = **12.49 SF**

ITEM 516 - SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL

REAR ABUTMENT = FORWARD ABUTMENT

JOINT LENGTH = 24.90'
ADDITIONAL LENGTH PER JOINT = 3.00'

TOTAL = 24.90' + 3.00' = **27.90 FT**

ITEM 516 - 1/8" PREFORMED BEARING PAD, TYPE CDP

NUMBER OF BEAMS = 18
NUMBER OF PADS PER BEAM = 2

TOTAL = 18 x 2 = **36 EACH**

ITEM 516 - ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE), 2" x 11" x 11"

NUMBER OF BEAMS = 18
NUMBER OF PADS PER BEAM = 4

TOTAL = 18 x 4 = **72 EACH**

ITEM 517 - RAILING (TWIN STEEL TUBE)

NUMBER OF SIDES = 2
LENGTH BETWEEN POST ANCHORED IN WINGWALLS = 168.75'
ADDITIONAL LENGTH OF RAIL BEYOND ANCHORED POSTS = 2'-5½" = 2.46'
NUMBER OF CORNERS = 4

TOTAL = 2 x 168.75' + 4 x 2.46' = **347.34 FT**

ITEM 518 - POROUS BACKFILL WITH GEOTEXTILE FABRIC

WIDTH = 2.00'

RIGHT REAR WINGWALL

LENGTH = 4.61'
HEIGHT = 6.72'
SUBTOTAL = 2.00' x 4.61' x 6.72' / 27 = 2.29 CY

LEFT REAR WINGWALL

LENGTH = 5.36'
HEIGHT = 6.84'
SUBTOTAL = 2.00' x 5.36' x 6.84' / 27 = 2.72 CY

REAR BREASTWALL

LENGTH = 24.90'
HEIGHT = 6.77'
SUBTOTAL = 2.00' x 24.90' x 6.77' / 27 = 12.49 CY

TOTAL = 2.29 CY + 2.72 CY + 12.49 CY = **17.50 CY**

RIGHT FORWARD WINGWALL

LENGTH = 4.70'
HEIGHT = 6.81'
SUBTOTAL = 2.00' x 4.70' x 6.81' / 27 = 2.37 CY

LEFT FORWARD WINGWALL

LENGTH = 4.80'
HEIGHT = 6.86'
SUBTOTAL = 2.00' x 4.80' x 6.86' / 27 = 2.44 CY

FORWARD BREASTWALL

LENGTH = 24.90'
HEIGHT = 6.79'
SUBTOTAL = 2.00' x 24.90' x 6.79' / 27 = 12.52 CY

TOTAL = 2.37 CY + 2.44 CY + 12.52 CY = **17.33 CY**

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER

PLAN MEASURED AREA AT TOP = 148.82 SF
PLAN MEASURED AREA AT BOTTOM = 1,756.63 SF
APPROXIMATE HEIGHT OF SLOPED AREA = 2.75'
APPROXIMATE HEIGHT OF TOTAL AREA = 5.25'

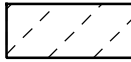
TOTAL = ((148.82 SF + 1,756.63 SF) / 2 x 2.75' + 1,756.63 SF x 5.25') / 27 = **438.60 CY**

ITEM SPECIAL - STEEL DRIP STRIP

NUMBER OF SIDES = 2
LENGTH = 166.27'
NUMBER OF POST = 27
ADDITIONAL LENGTH PER POST = 1.50'

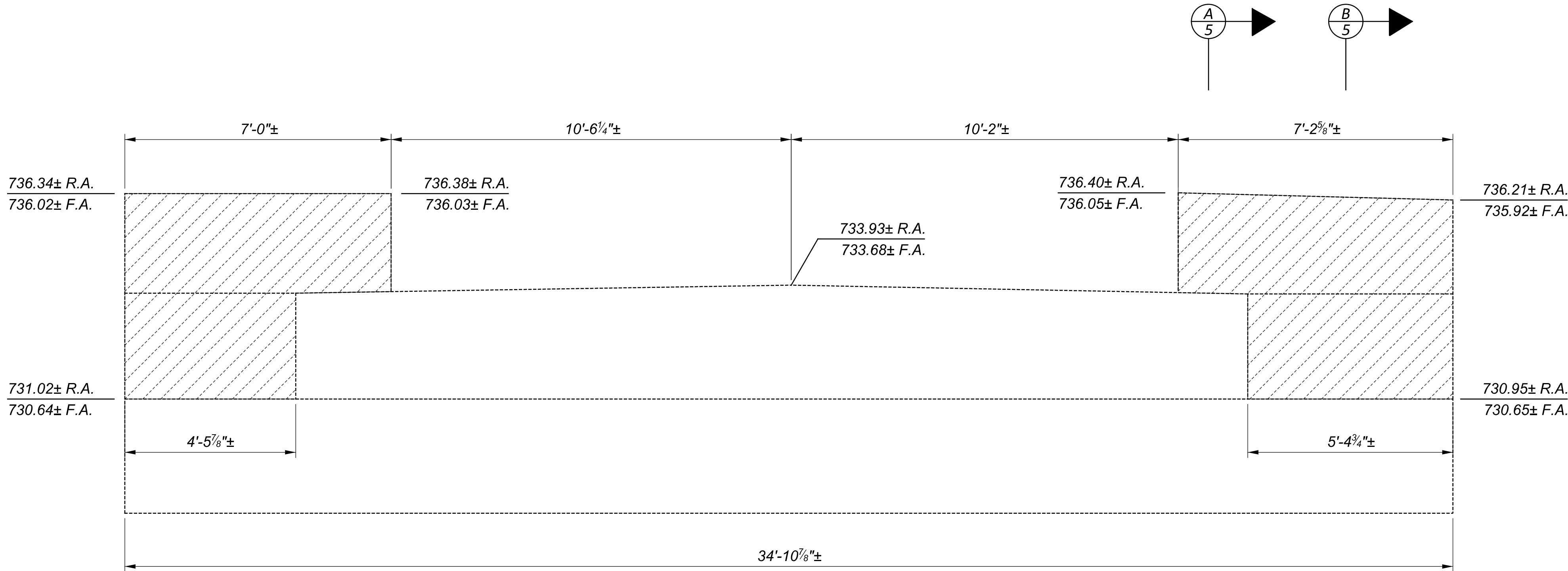
TOTAL = 2 x (166.27' + 27 x 1.50') = **413.54 FT**

LEGEND

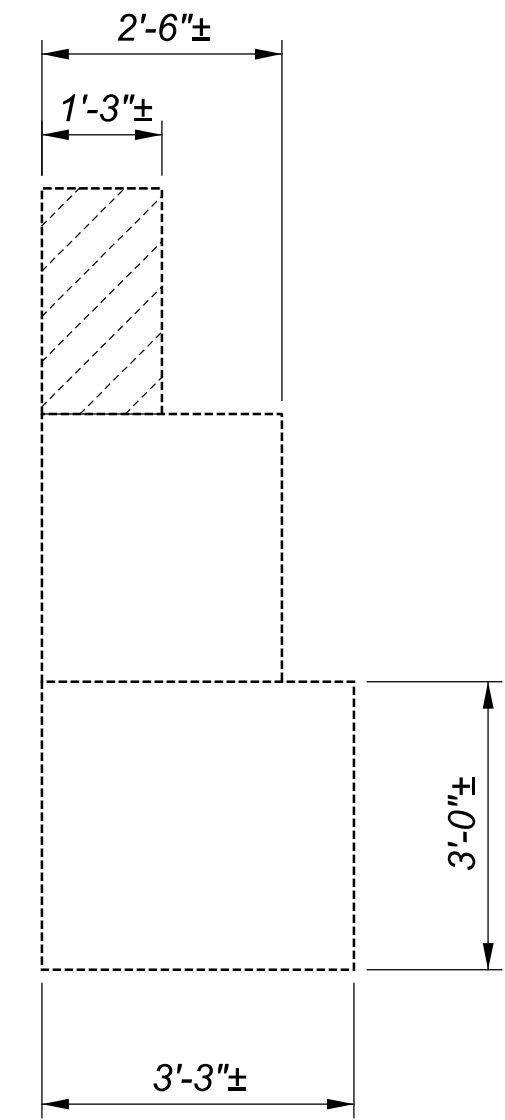
 PORTION OF STRUCTURE TO BE REMOVED

NOTE

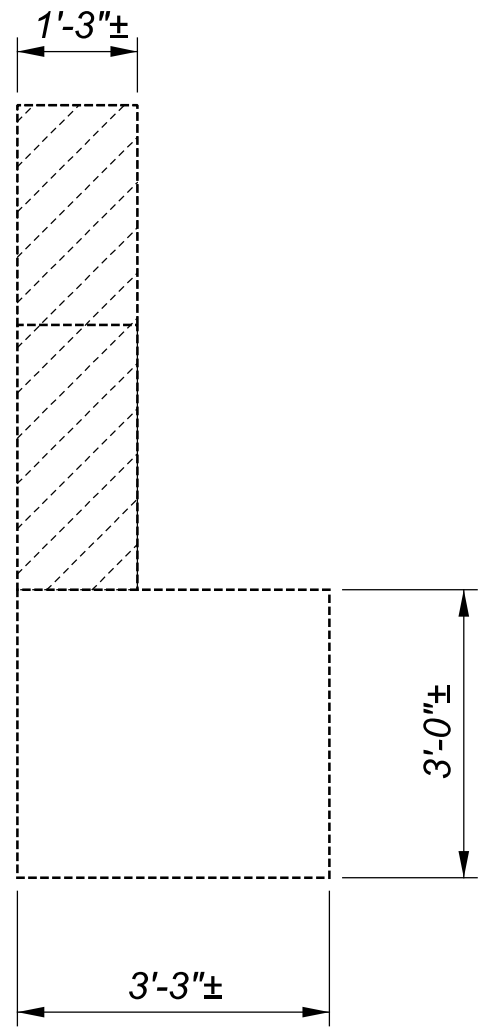
EXISTING REBAR SHALL REMAIN.



ABUTMENT ELEVATION



A
5 BEAMSEAT WITH BACKWALL SECTION



B
5 WINGWALL SECTION

DO NOT PLACE THE ABUTMENT CONCRETE ABOVE THE BRIDGE SEAT UNTIL THE PRESTRESSED CONCRETE BOX BEAMS HAVE BEEN ERECTED.

Structural cross-section drawing of a bridge deck. The drawing shows a central section with a width of 34'-10 7/8" ±. The deck is divided into three main sections by optional construction joints. The left section has a width of 4'-7 3/8" ± R.A. and 4'-9 5/8" ± F.A. The middle section has a width of 17 EQUAL SPACES AT 1'-6" MAX. The right section has a width of 5'-4 3/8" ± R.A. and 4'-8 3/8" ± F.A. The deck is reinforced with 3 - AR502 R.A. and 3 - AF502 F.A. on the left, 3 - AR504 R.A. and 3 - AF504 F.A. on the right, and 2 - S601 and 3 - S601 in the middle. The deck is supported by a 6" EMBEDMENT MIN. (TYP.) and has a 1" P.E.J.F. (TYP.) at the construction joints. The drawing also shows the centerline of the construction (C CONSTRUCTION) and the centerline of the deck (C/C SPACING). The drawing includes various dimensions and labels for reinforcement bars and construction details.

Dimensions and labels:

- 4'-7 3/8" ± R.A.
- 4'-9 5/8" ± F.A.
- 1" P.E.J.F. (TYP.)
- 17 EQUAL SPACES AT 1'-6" MAX.
- 5'-4 3/8" ± R.A.
- 4'-8 3/8" ± F.A.
- 3 - AR502 R.A.
- 3 - AF502 F.A.
- 3 - AR504 R.A.
- 3 - AF504 F.A.
- 2 - S601
- 3 - S601
- 6" EMBEDMENT MIN. (TYP.)
- 1" P.E.J.F. (TYP.)
- OPTIONAL CONSTRUCTION JOINT
- C/C SPACING
- 4 SPACES @ 1'-6" MAX C/C SPACING
- 4 SPACES @ 1'-6" MAX C/C SPACING
- 736.32 R.A.
- 736.06 F.A.
- 736.33 R.A.
- 736.05 F.A.
- AR503
- AF503
- 733.85 ± R.A.
- 733.46 ± F.A.
- 733.93 ± R.A.
- 733.68 ± F.A.
- 733.75 ± R.A.
- 733.48 ± F.A.
- 730.02 ± R.A.
- 730.64 ± F.A.
- 730.95 ± R.A.
- 730.65 ± F.A.
- AR502 N.F. R.A.
- AF502 N.F. F.A.
- AR504 N.F. R.A.
- AF504 N.F. F.A.
- 728.10 ± R.A.
- 727.70 ± F.A.
- 727.99 ± R.A.
- 727.73 ± F.A.
- 34'-10 7/8" ±

N.F. = NEAR FACE
P.E.J.F. = PREFORMED EXPANSION JOINT FILLER
R.A. = REAR ABUTMENT
F.A. = FORWARD ABUTMENT

- [A] 6" PERFORATED CORRUGATED PLASTIC PIPE**
(707.33 TYPE SP) - $\frac{1}{8}$ " PER FOOT MIN. SLOPE
- [B] 6" NON-PERFORATED CORRUGATED PLASTIC PIPE (707.33**
TYPE S) - $\frac{1}{8}$ " PER FOOT MIN. SLOPE OUTLET PER CPA-1-08

6" 1'-0" 6" CL BEARINGS

SEE JOINT DETAIL, THIS SHEET

D801, MATCH S501 SPACING

S601 @ 9" MAX SPACING

S602 @ 18" MAX. SPACING

S601

S501

2" Ø HOLE IN BEAM

1" Ø ANCHOR DOWEL BAR

6" MIN.

6"

S502

1'-0"

2" ELASTOMERIC BEARING PAD

INSTALL DOWEL ACCORDING TO ITEM 510 USING NON-SHRINKING GROUT

SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL

FILL WITH GEOTEXTILE FABRIC

PREFORMED ELASTOMERIC JOINT SEAL, 705.11 (1/4" W GROOVE) PLACED IN

A

2'-0" 3'-3"±

TYPE "A" OR TYPE "E" W

D WINGWALL SECTION
6 LEFT REAR SHOWN, OTHERS SIMILAR

ABUTMENT DETAILS
BRIDGE NO.: HOC-CR174-0030
OVER SALT CREEK

N
3731731

DESIGN AGENCY

ADR
ARCHITECTURAL DESIGN & RESEARCH, INC.

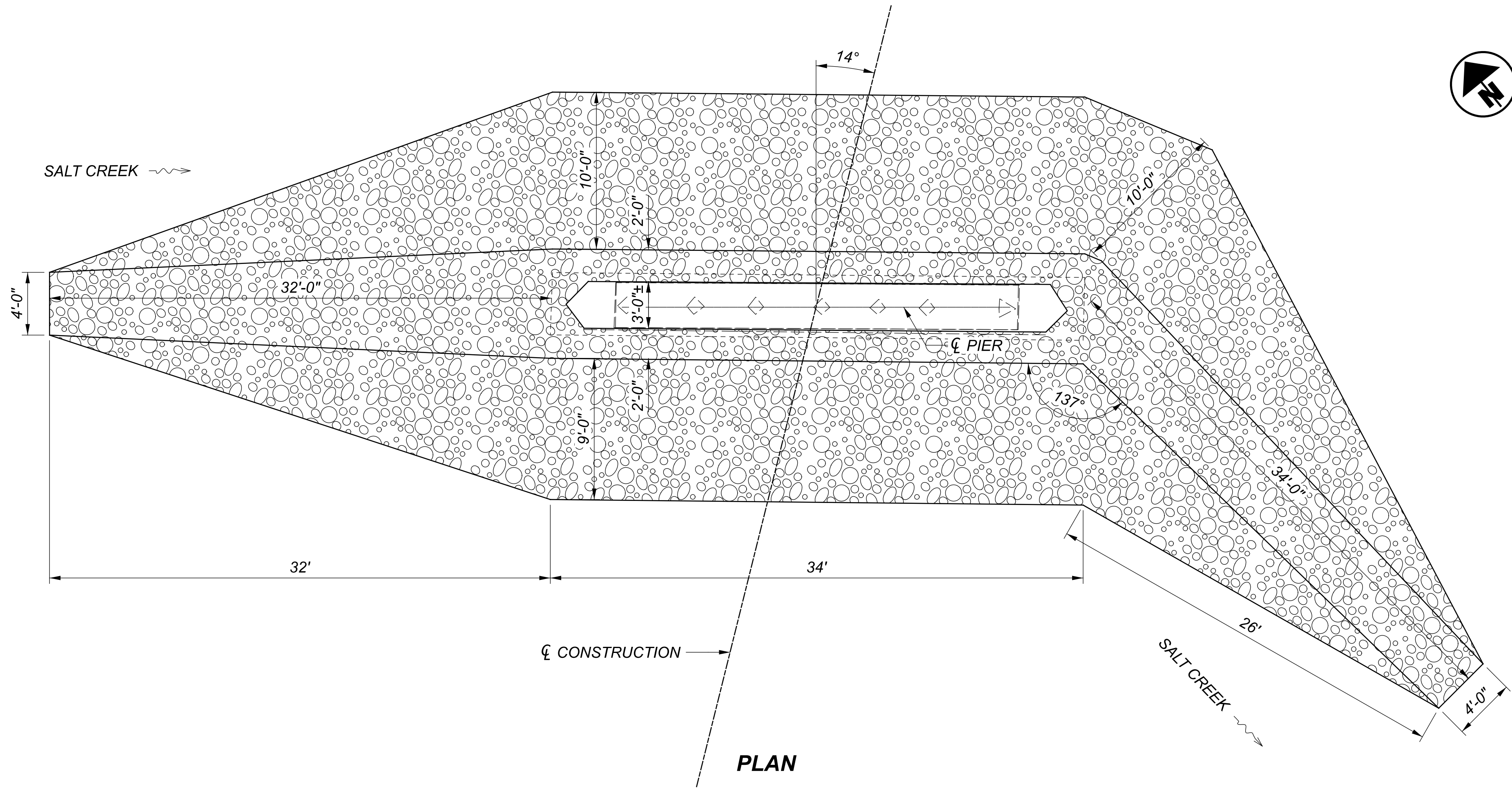
IGN • ENGINEERING • INNOVATION
An Employee Owned Company

88 West Church Street
Newark, OH 43055
(740) 345-1921 (ph)
www.adrinnovation.com

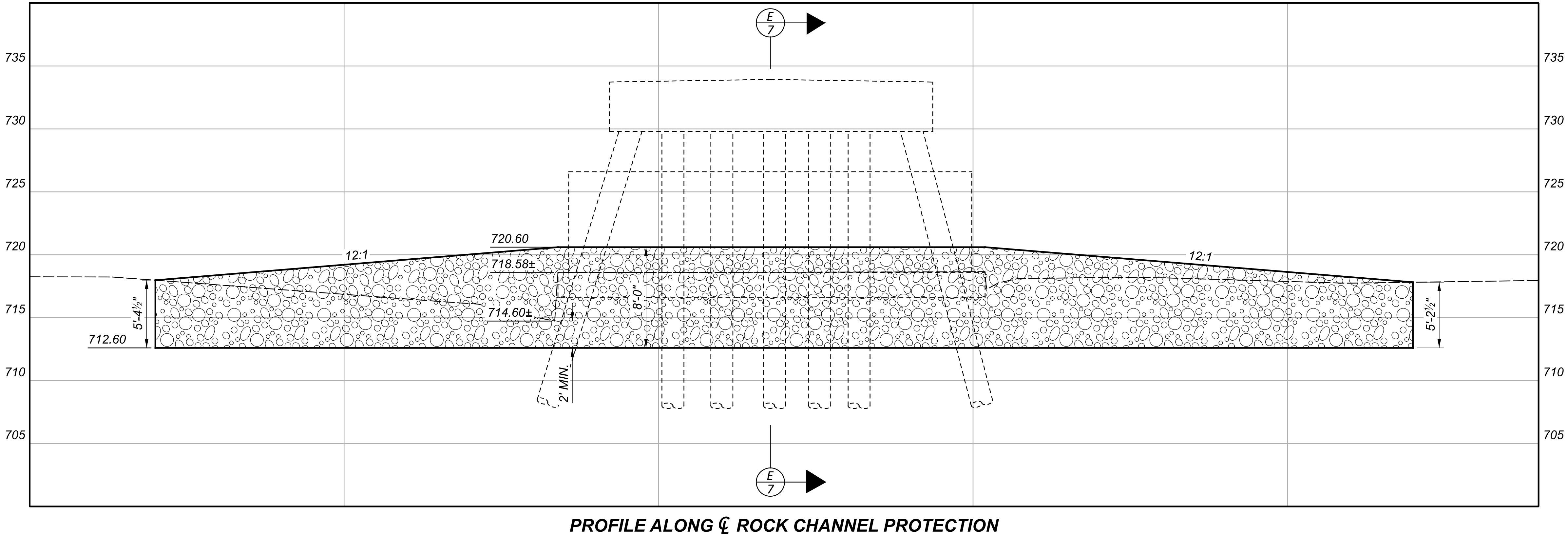
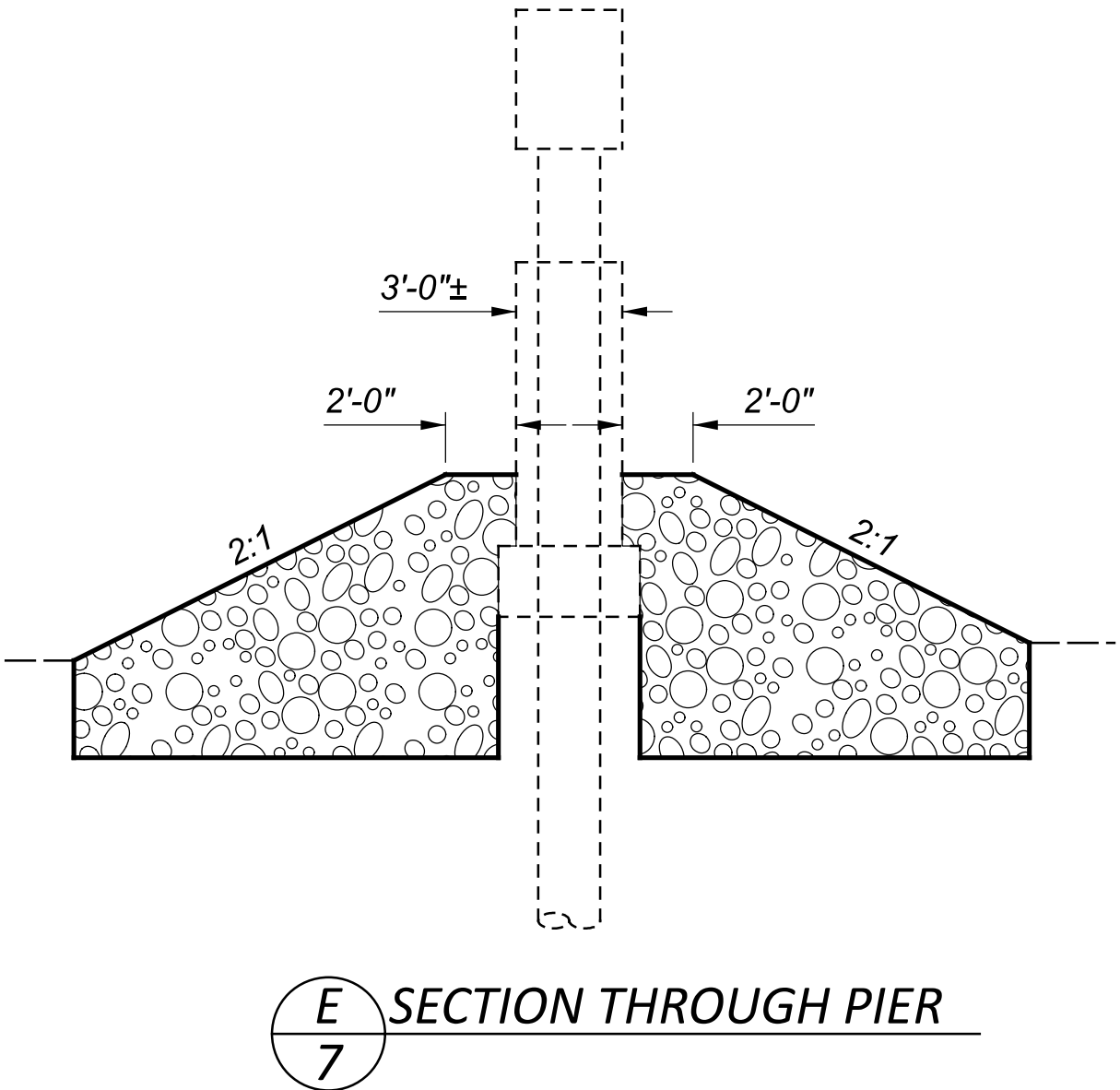
DESIGNER CAC	CHECKER JTH
REVIEWER CK 07-29-25	
PROJECT ID 112312	
SUBSET 6	TOTAL 13
SHEET P.21	TOTAL 28

HOC-CR174-00.30

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 9/10/2025 TIME: 12:19:09 PM USER: bklingenberg
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LEGEND
TYPE A ROCK CHANNEL PROTECTION



DESIGN LOADING

DESIGN LOADING: HL-93
FUTURE WEARING SURFACE (FWS) OF 0.060 KSF

DESIGN DATA

CONCRETE FOR PRESTRESSED BEAMS:
COMPRESSIVE STRENGTH (FINAL) - 5.5 KSI
COMPRESSIVE STRENGTH (RELEASE) - 4.0 KSI

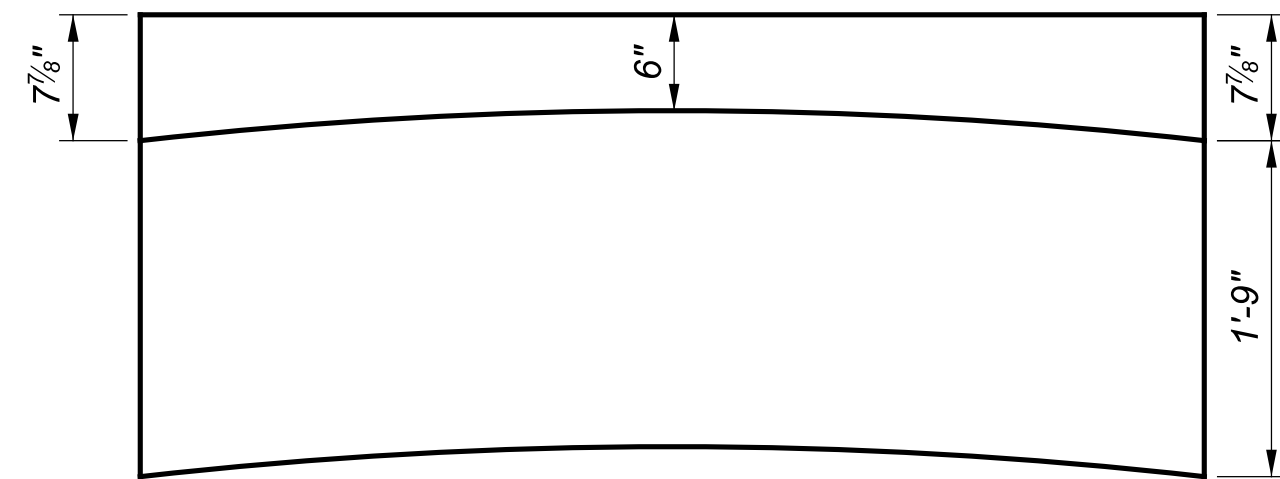
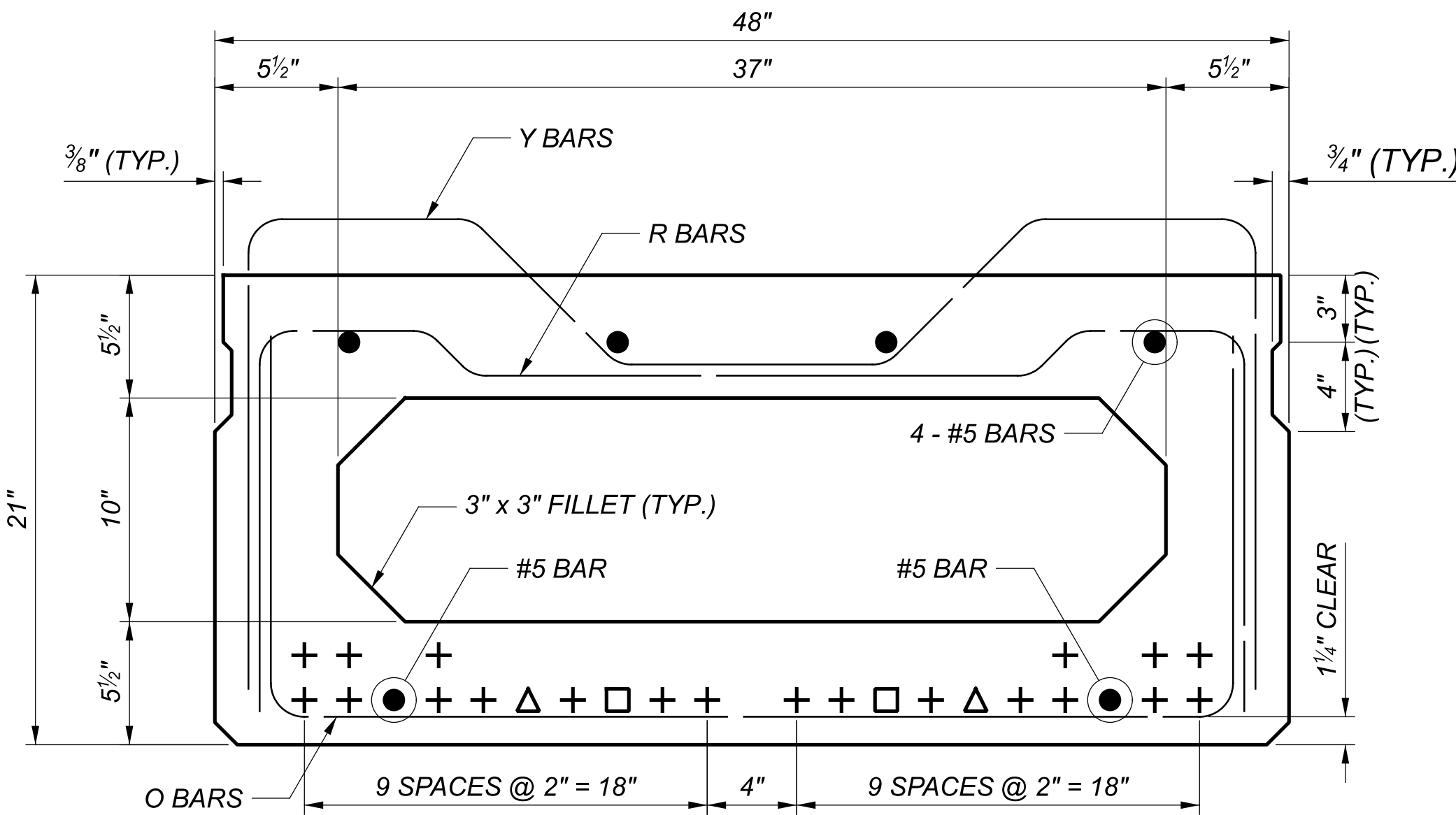
PRESTRESSING STRAND:
AREA = 0.167 SQUARE INCH
ULTIMATE STRENGTH = 270 KSI
INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

CAMBER AT RELEASE = $1\frac{1}{4}$ "
CAMBER AT ERECTION = $2\frac{1}{4}$ "
FINAL CAMBER = $1\frac{7}{8}$ "

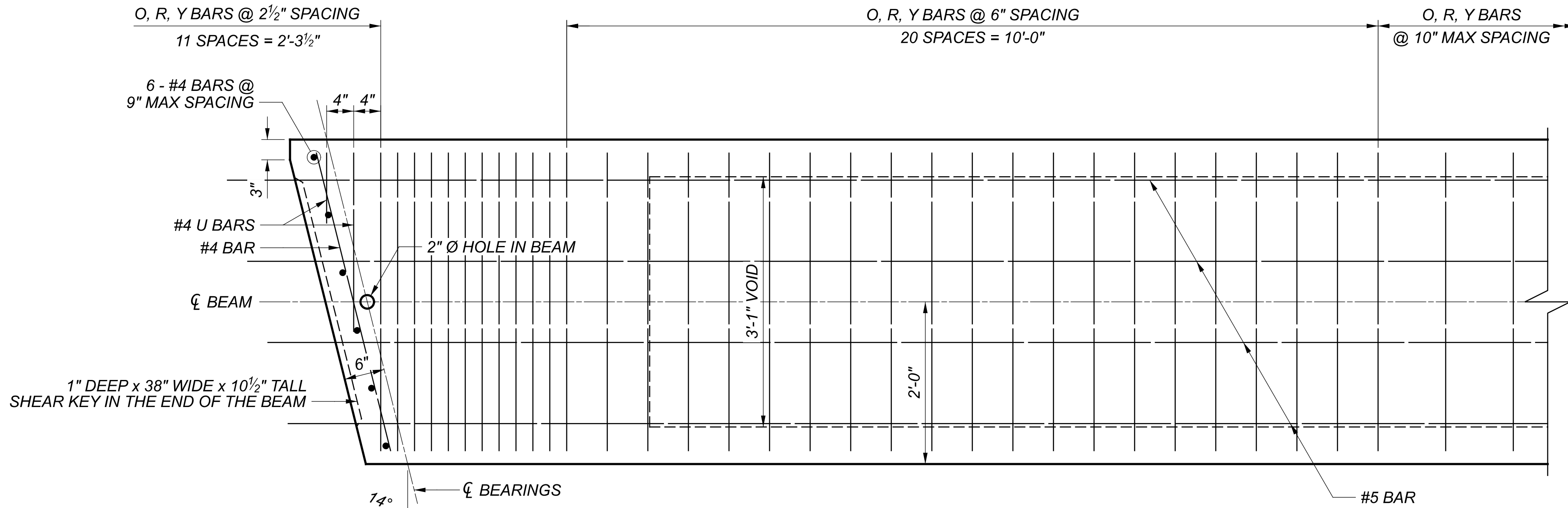
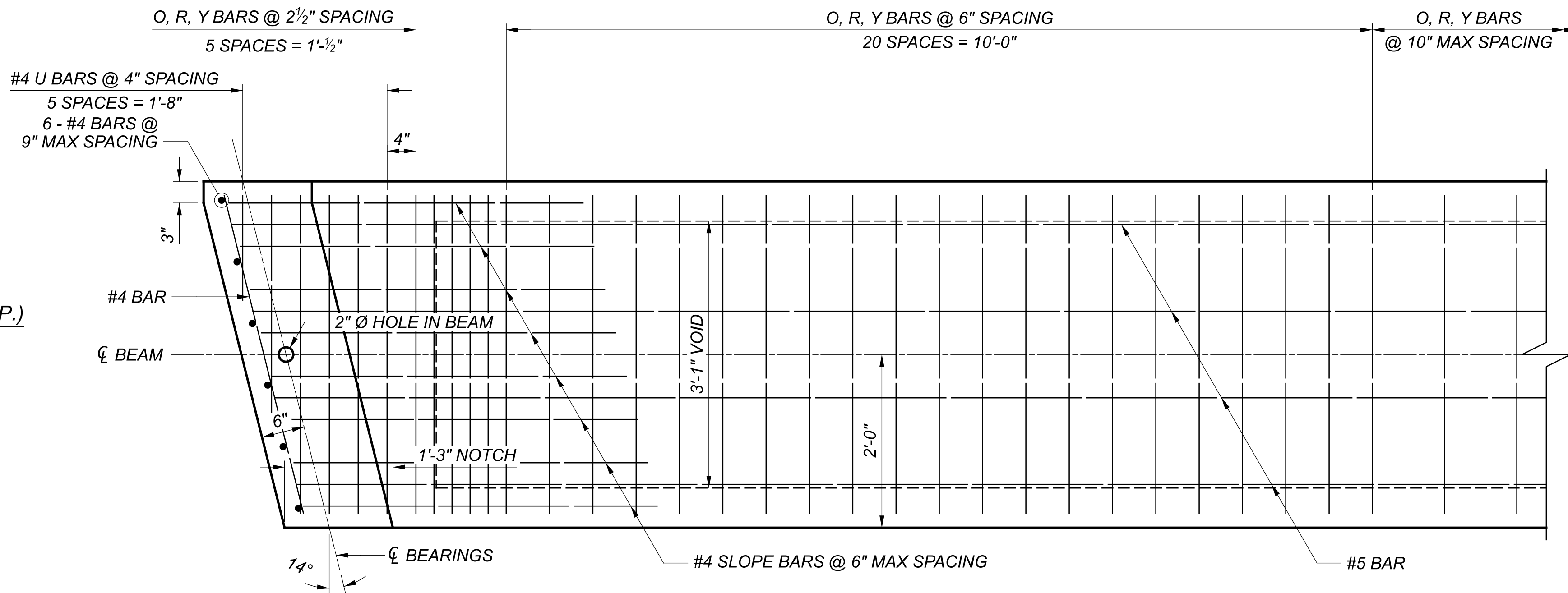
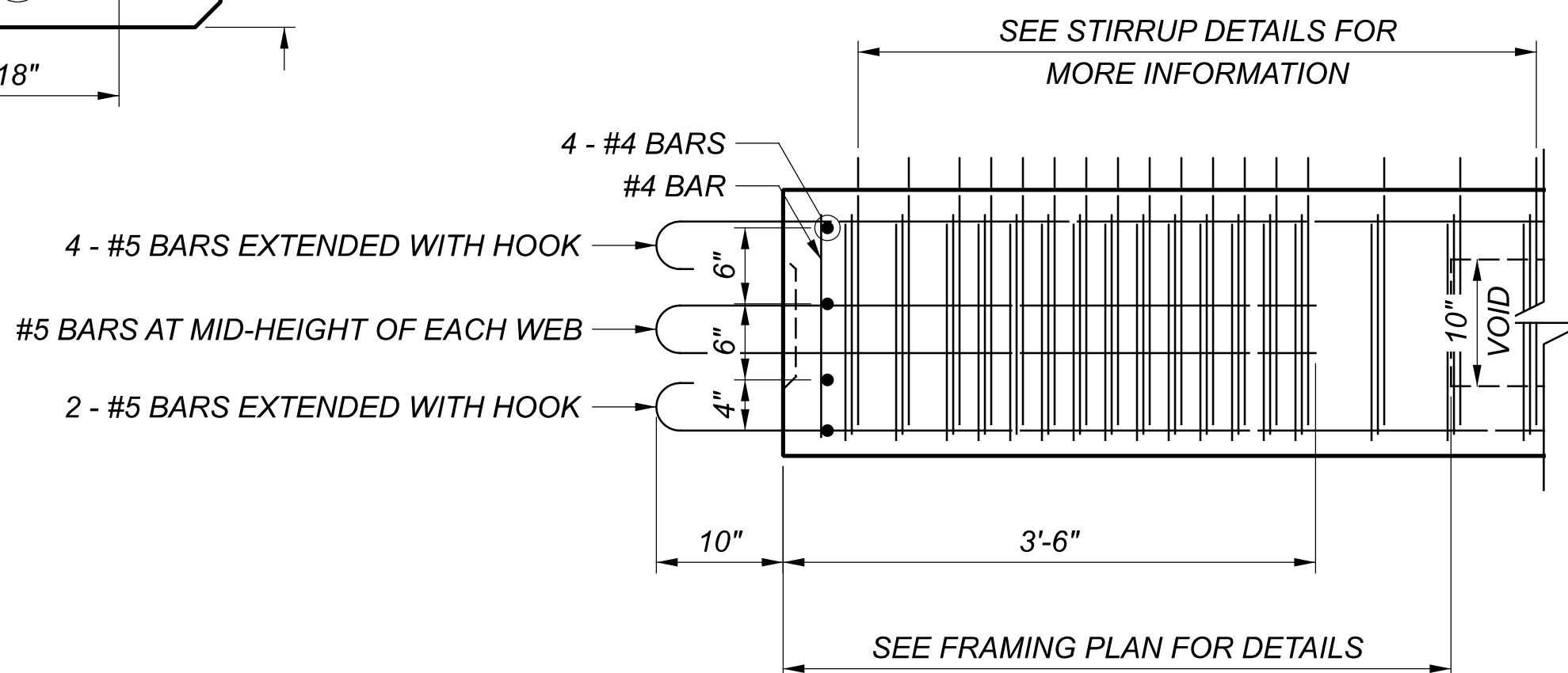
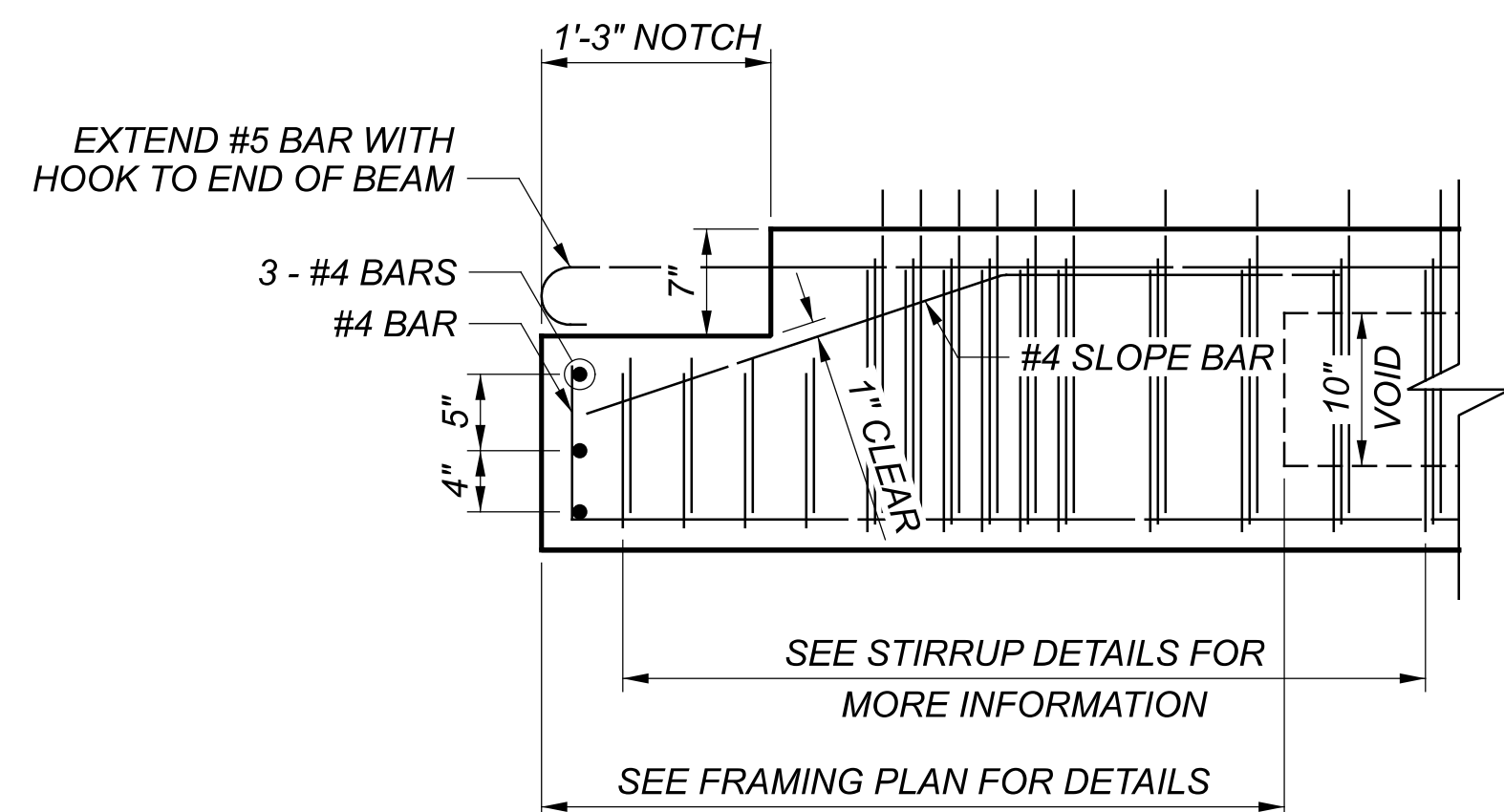
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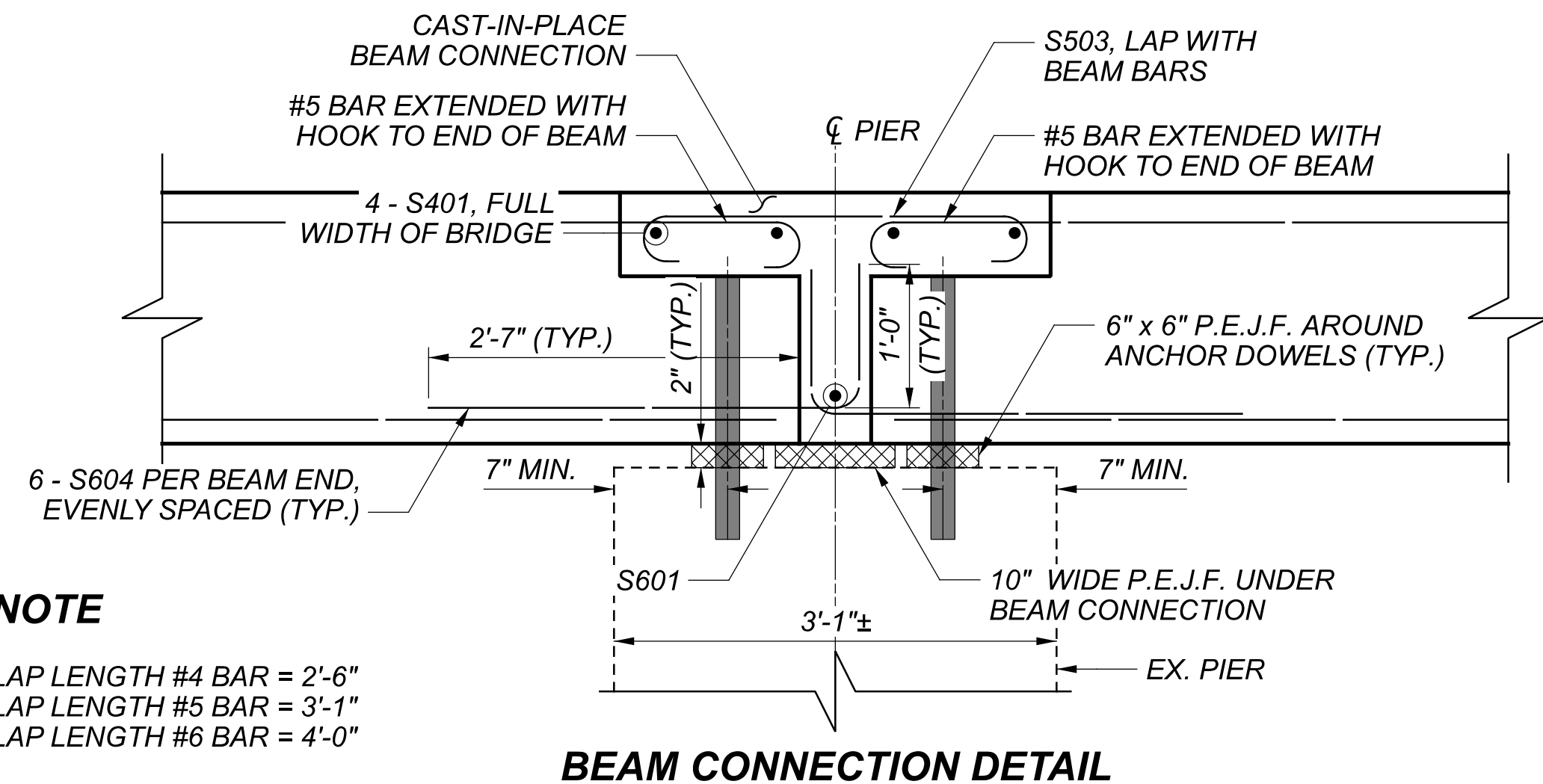
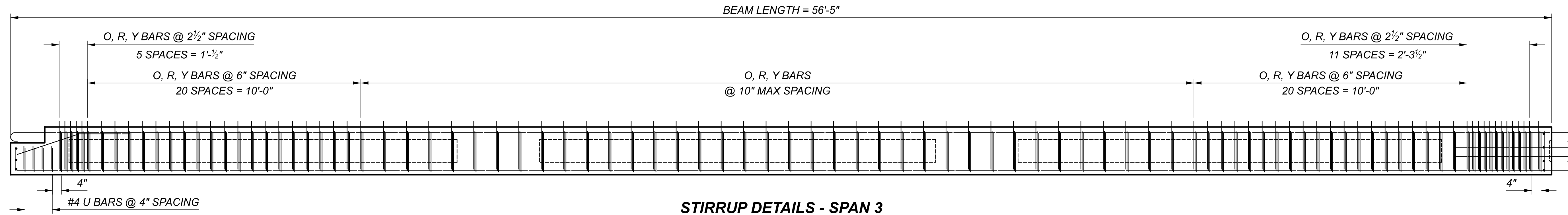
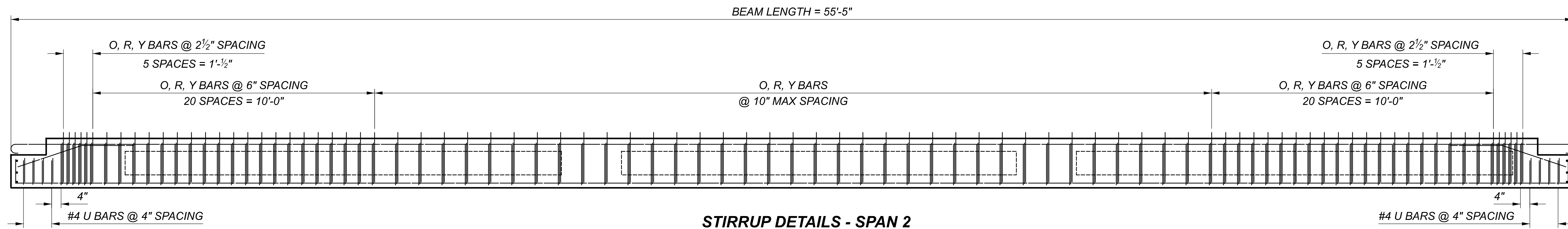
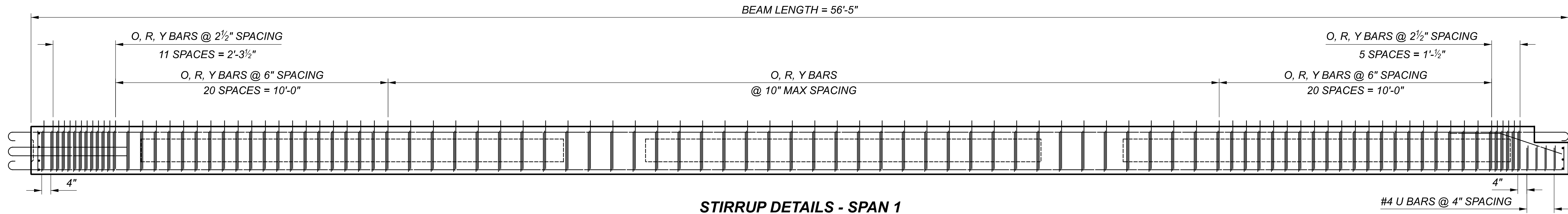
BARS EXTENDED FROM BEAM
END SHALL BE EPOXY COATED.

LAP LENGTH #4 BAR = 2'-6"
LAP LENGTH #5 BAR = 3'-1"

**CAMBER DIAGRAM****CB21-48 SECTION****LEGEND**

- △ 2 STRANDS (0.167 IN²) 2'-8" DEBONDED LENGTH MEASURED FROM ENDS
□ 2 STRANDS (0.167 IN²) 5'-4" DEBONDED LENGTH MEASURED FROM ENDS
+ 20 STRANDS (0.167 IN²)

**BEAM END DETAIL (ABUTMENT SIDE) - PLAN****BEAM END DETAIL (PIER SIDE) - PLAN****BEAM END DETAIL (ABUTMENT SIDE) - ELEVATION****BEAM END DETAIL (PIER SIDE) - ELEVATION**

**NOTE**

LAP LENGTH #4 BAR = 2'-6"
LAP LENGTH #5 BAR = 3'-1"
LAP LENGTH #6 BAR = 4'-0"

BEARING PAD NOTES

1. 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 LONG-TERM COMPRESSION PROOF LOAD TEST (AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.
2. 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.

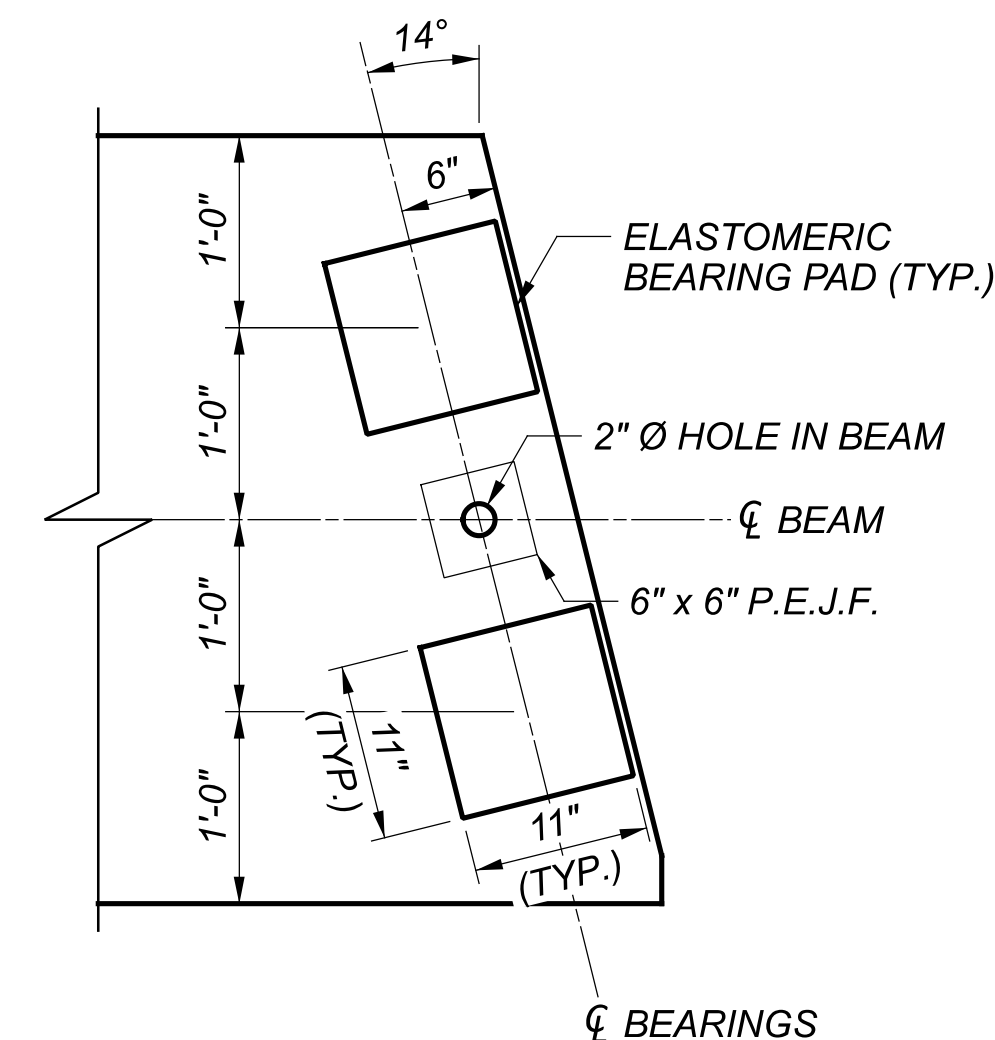
BEARING PAD LEGEND

t_i = THICKNESS OF INTERNAL LAYERS
 t_e = THICKNESS OF EXTERNAL LAYERS
 T = TOTAL THICKNESS OF ELASTOMERIC BEARING
 N = NUMBER OF STEEL LAMINATES
INTERNAL STEEL LAMINATE THICKNESS = 0.1046 (12 GAGE)
 $N-1$ = NUMBER OF INTERNAL LAYERS

BEARING DIMENSIONS						
L	W	t_i	t_e	T	N	N-1
11"	11"	0.593"	0.25"	2.000"	3	2

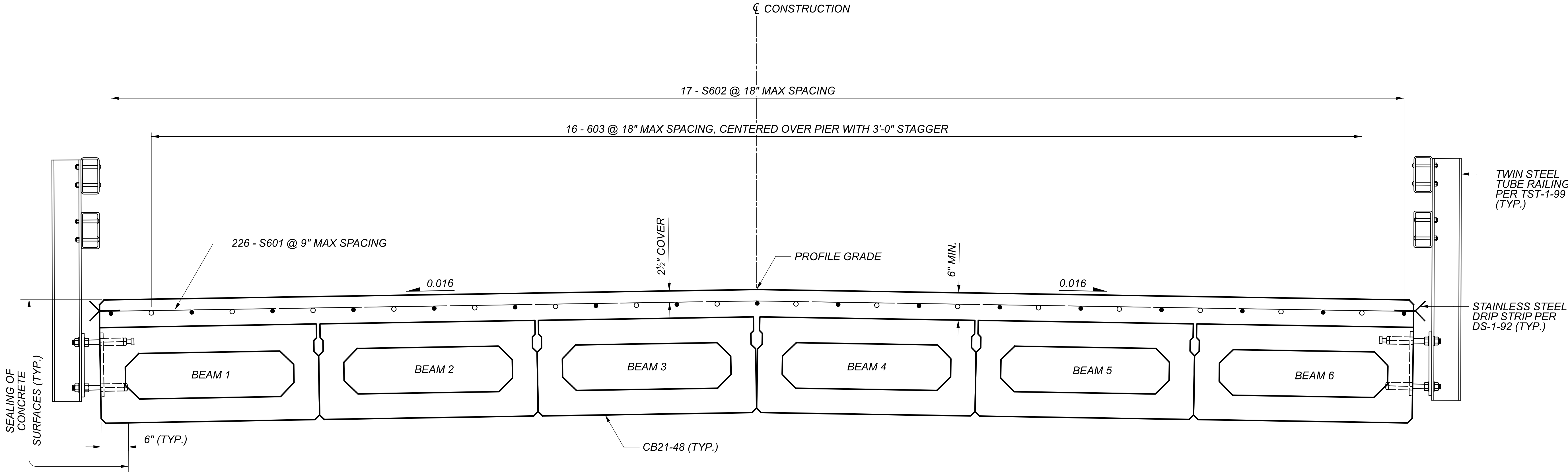
SPAN 1 AND 3 REACTIONS			
BEAM	MAX. DL	MAX. LL	MAX. LOAD
B21-48	20.0 K	35.9 K	55.9 K

SPAN 2 REACTIONS			
BEAM	MAX. DL	MAX. LL	MAX. LOAD
B21-48	19.4 K	35.5 K	54.9 K

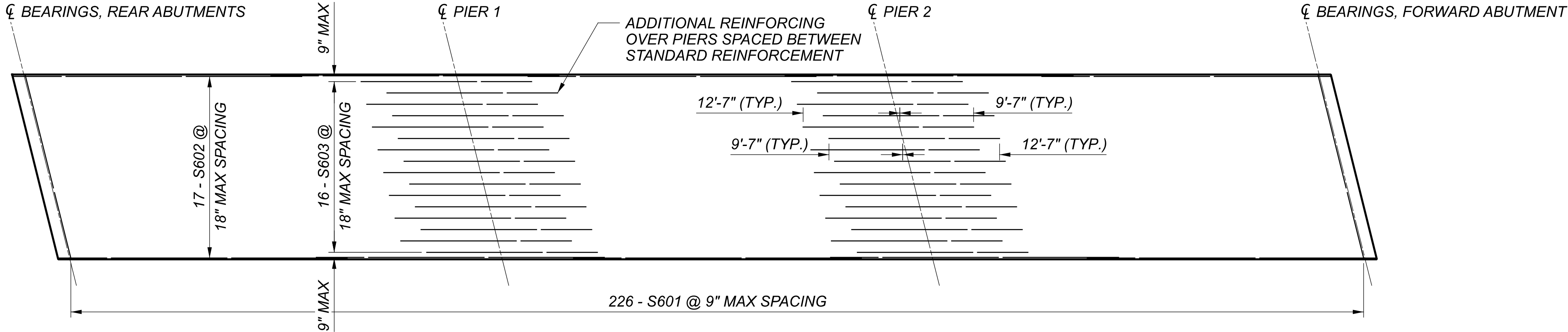
**BEARING PAD SECTION****BEARING PAD LAYOUT**

NOTE

LAP LENGTH #6 BAR = 4'-0"



TRANSVERSE SECTION



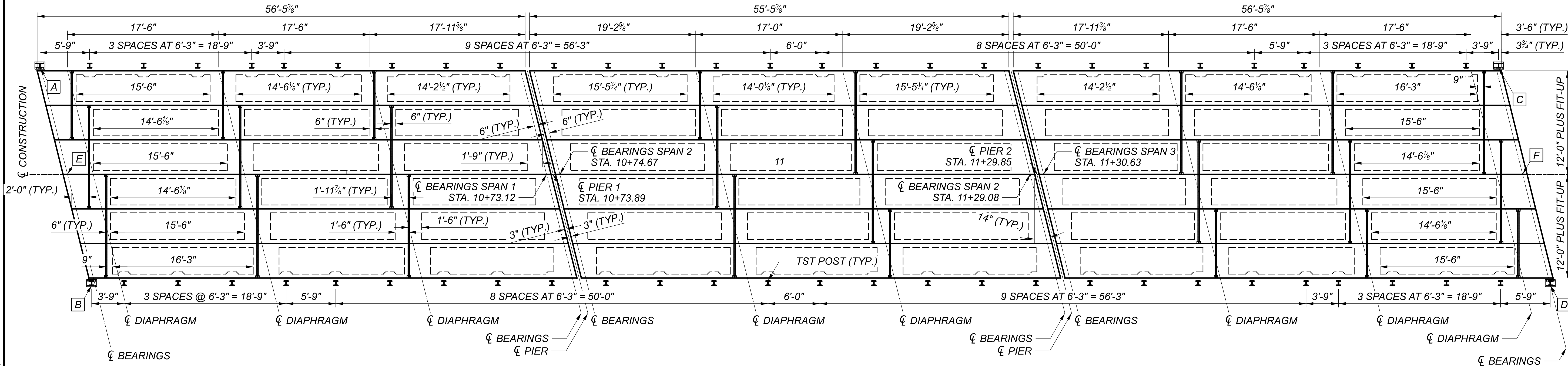
DECK REINFORCEMENT DETAIL

SUPERSTRUCTURE DETAILS
BRIDGE NO.: HOC-CR174-0030
OVER SALT CREEK

SFN	
3731731	
DESIGN AGENCY	
ADR DESIGN • ENGINEERING • INNOVATION An Employee Owned Company 88 West Church Street Newark, OH 43055 (740) 345-1921 (ph) www.adrinnovation.com	
DESIGNER	CHECKER
CAC	BCK
REVIEWER	
NDM 06-10-25	
PROJECT ID	
112312	
SUBSET	TOTAL
10	13
SHEET	TOTAL
P.25	28

LEGEND

- A TST POST MOUNTED ON WINGWALL STA. 10+14.51
- B TST POST MOUNTED ON WINGWALL STA. 10+20.49
- C TST POST MOUNTED ON WINGWALL STA. 11+83.26
- D TST POST MOUNTED ON WINGWALL STA. 11+89.24
- E CL BEARINGS REAR ABUTMENT STA. 10+17.70
- F CL BEARINGS FORWARD ABUTMENT STA. 11+86.04



FRAMING PLAN

SCREED ELEVATIONS - SPAN 1							
LOCATION		DESCRIPTION	CL BEARING REAR ABUTMENT	1/4 SPAN	1/2 SPAN	3/4 SPAN	CL BEARING PIER 1
LEFT EDGE OF DECK	12.00' LEFT	STATION	10+14.71	10+28.56	10+42.42	10+56.27	10+70.13
		ELEVATION	736.32	736.33	736.32	736.29	736.24
PROFILE GRADE	CENTERLINE	STATION	10+17.70	10+31.56	10+45.41	10+59.27	10+73.12
		ELEVATION	736.51	736.52	736.50	736.47	736.42
RIGHT EDGE OF DECK	12.00' RIGHT	STATION	10+20.69	10+34.55	10+48.40	10+62.26	10+76.11
		ELEVATION	736.31	736.32	736.31	736.28	736.23

SCREED ELEVATIONS - SPAN 2							
LOCATION		DESCRIPTION	CL BEARING PIER 1	1/4 SPAN	1/2 SPAN	3/4 SPAN	CL BEARING PIER 2
LEFT EDGE OF DECK	12.00' LEFT	STATION	10+71.68	10+85.28	10+98.88	11+12.49	11+26.09
		ELEVATION	736.23	736.24	736.23	736.20	736.15
PROFILE GRADE	CENTERLINE	STATION	10+74.67	10+88.27	11+01.88	11+15.48	11+29.08
		ELEVATION	736.42	736.43	736.41	736.38	736.33
RIGHT EDGE OF DECK	12.00' RIGHT	STATION	10+77.66	10+91.26	11+04.87	11+18.47	11+32.07
		ELEVATION	736.22	736.23	736.22	736.19	736.14

SCREED ELEVATIONS - SPAN 3							
LOCATION		DESCRIPTION	CL BEARING PIER 2	1/4 SPAN	1/2 SPAN	3/4 SPAN	CL BEARING FORWARD ABUTMENT
LEFT EDGE OF DECK	12.00' LEFT	STATION	11+27.64	11+41.49	11+55.34	11+69.20	11+83.05
		ELEVATION	736.14	736.15	736.14	736.10	736.06
PROFILE GRADE	CENTERLINE	STATION	11+30.63	11+44.48	11+58.34	11+72.19	11+86.04
		ELEVATION	736.33	736.34	736.32	736.29	736.24
RIGHT EDGE OF DECK	12.00' RIGHT	STATION	11+33.62	11+47.47	11+61.33	11+75.18	11+89.03
		ELEVATION	736.13	736.14	736.13	736.10	736.05

FINAL DECK SURFACE ELEVATIONS - SPAN 1							
LOCATION		DESCRIPTION	CL BEARING REAR ABUTMENT	1/4 SPAN	1/2 SPAN	3/4 SPAN	CL BEARING PIER 1
LEFT EDGE OF DECK	12.00' LEFT	STATION	10+14.71	10+28.57	10+42.42	10+56.28	10+70.13
		ELEVATION	736.33	736.30	736.28	736.26	736.24
PROFILE GRADE	CENTERLINE	STATION	10+17.70	10+31.56	10+45.41	10+59.27	10+73.12
		ELEVATION	736.51	736.49	736.47	736.45	736.43
RIGHT EDGE OF DECK	12.00' RIGHT	STATION	10+20.69	10+34.55	10+48.40	10+62.26	10+76.11
		ELEVATION	736.32	736.29	736.27	736.25	736.23

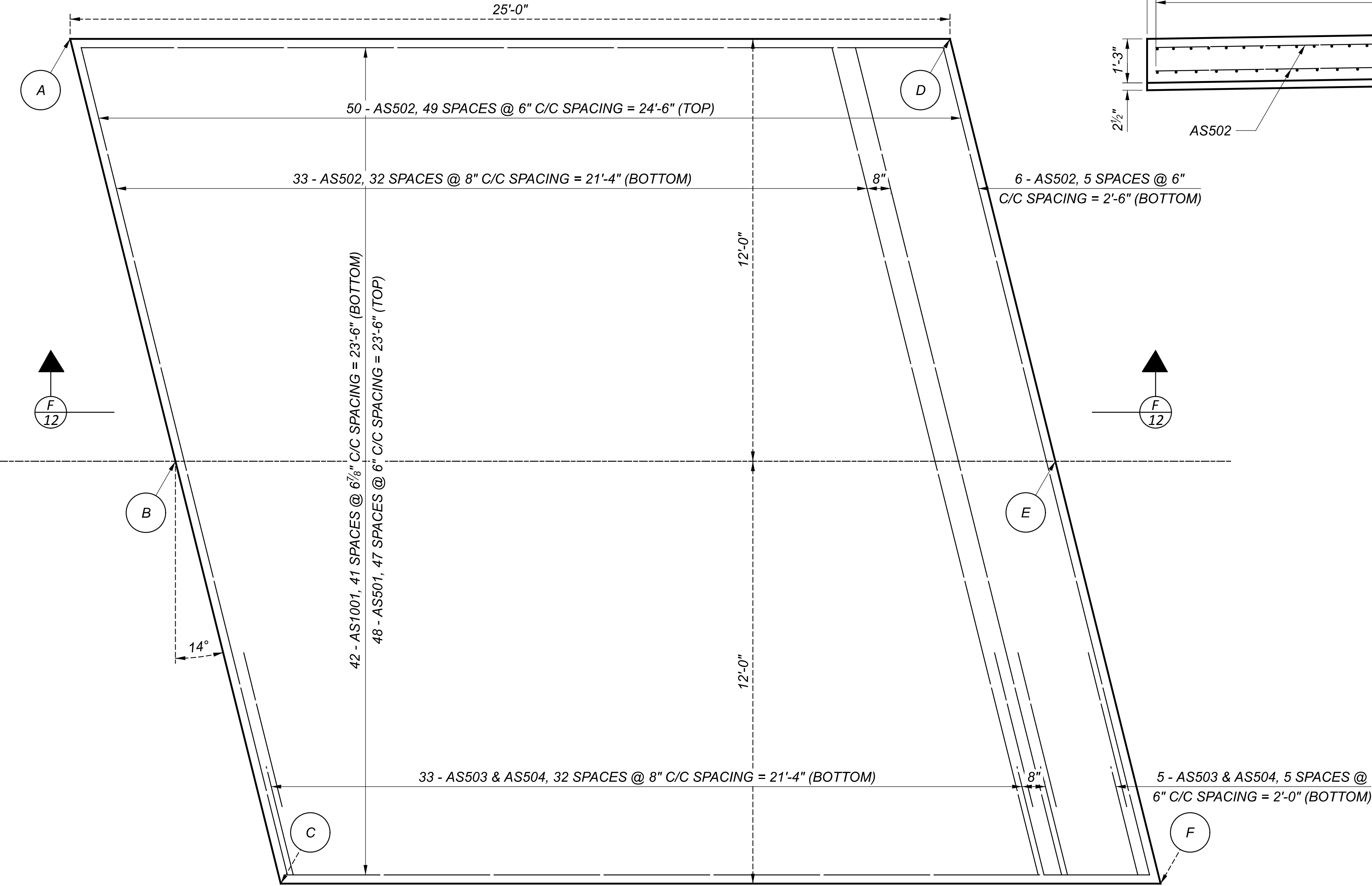
FINAL DECK SURFACE ELEVATIONS - SPAN 2							
LOCATION		DESCRIPTION	CL BEARING PIER 1	1/4 SPAN	1/2 SPAN	3/4 SPAN	CL BEARING PIER 2
LEFT EDGE OF DECK	12.00' LEFT	STATION	10+71.67	10+85.28	10+98.88	11+12.49	11+26.09
		ELEVATION	736.24	736.21	736.19	736.17	736.15
PROFILE GRADE	CENTERLINE	STATION	10+74.67	10+88.27	11+01.88	11+15.48	11+29.08
		ELEVATION	736.42	736.40	736.38	736.36	736.34
RIGHT EDGE OF DECK	12.00' RIGHT	STATION	10+77.66	10+91.26	11+04.87	11+18.47	11+32.07
		ELEVATION	736.23	736.21	736.18	736.16	736.14

FINAL DECK SURFACE ELEVATIONS - SPAN 3							
LOCATION		DESCRIPTION	CL BEARING PIER 2	1/4 SPAN	1/2 SPAN	3/4 SPAN	CL BEARING FORWARD ABUTMENT
LEFT EDGE OF DECK	12.00' LEFT	STATION	11+27.65	11+41.50	11+55.35	11+69.20	11+83.05
		ELEVATION	736.15	736.13	736.10	736.08	736.06
PROFILE GRADE	CENTERLINE	STATION	11+30.63	11+44.48	11+58.34	11+72.19	11+86.04
		ELEVATION	736.34	736.31	736.29	736.27	736.25
RIGHT EDGE OF DECK	12.00' RIGHT	STATION	11+33.62	11+47.48	11+61.33	11+75.19	11+89.04
		ELEVATION	736.14	736.12	736.10	736.07	736.05

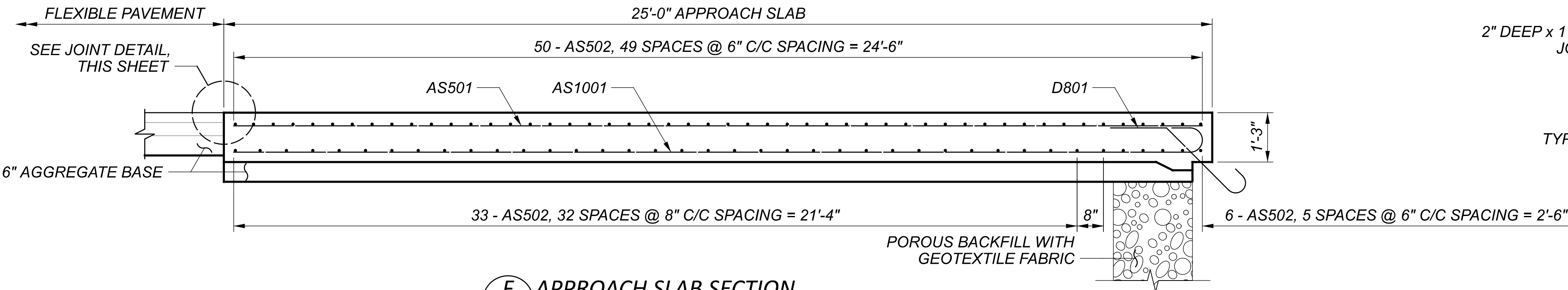
FRAMING PLAN
BRIDGE NO.: HOC-CR174-0030
OVER SALT CREEK

NOTES

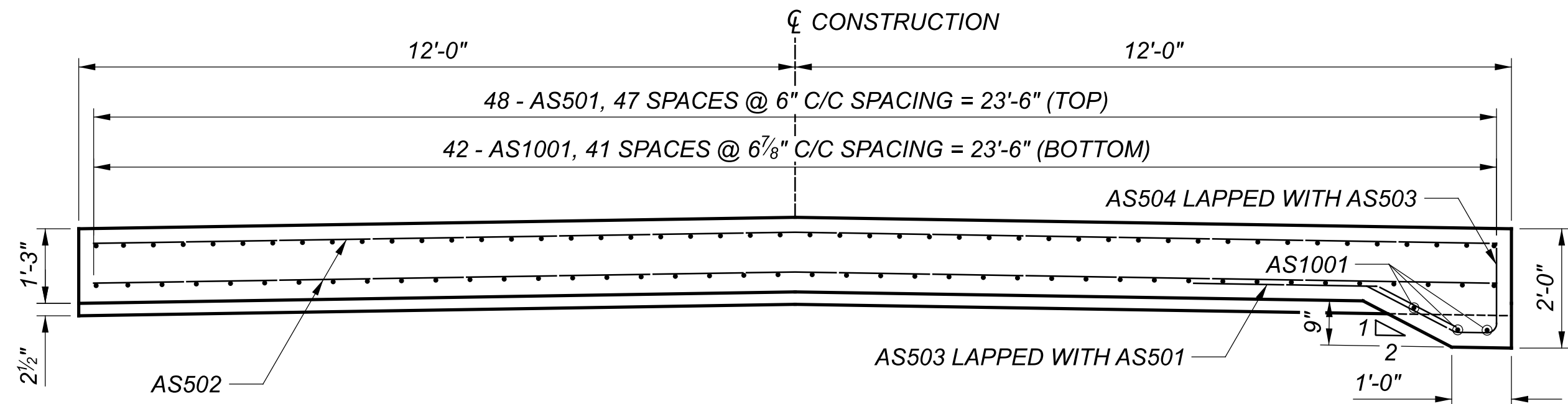
3" CLEAR COVER UNLESS OTHERWISE NOTED.
SEE STANDARD CONSTRUCTION DRAWINGS
AS-1-15 FOR ADDITIONAL NOTES AND DETAILS.
LAP LENGTH #5 BAR = 3'-1"
LAP LENGTH #10 BAR = 6'-9"



PLAN

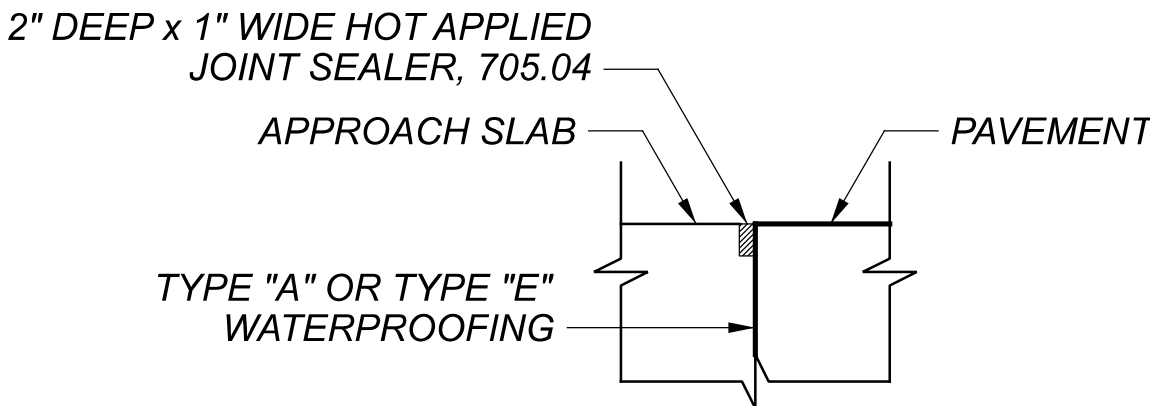


APPROACH SLAB SECTION



TRANSVERSE SECTION

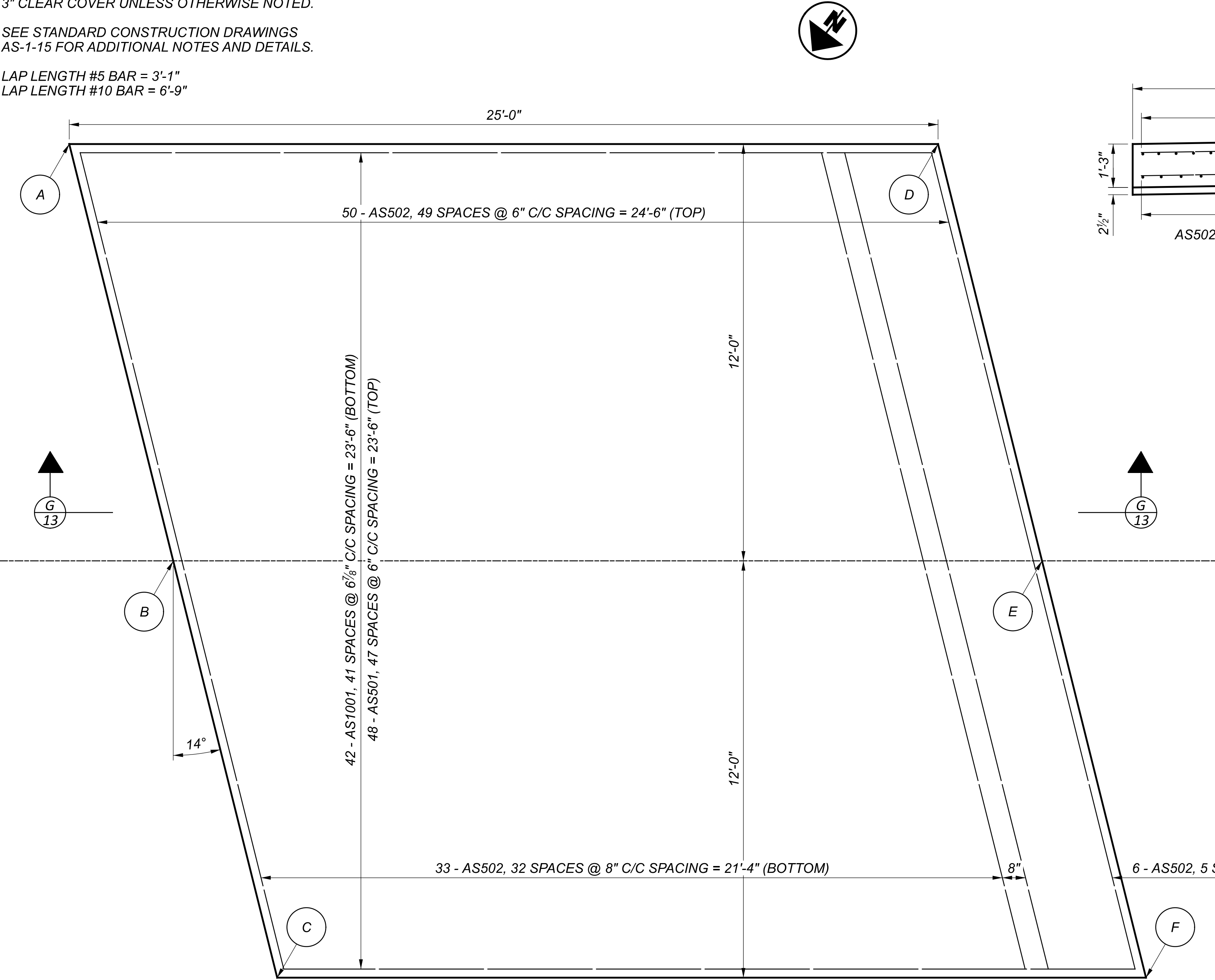
REAR APPROACH SLAB SURFACE ELEVATION		
POINT	STATION	ELEVATION
A	9+88.20	736.37
B	9+91.19	736.55
C	9+94.18	736.36
D	10+13.20	736.33
E	10+16.19	736.52
F	10+19.18	736.32



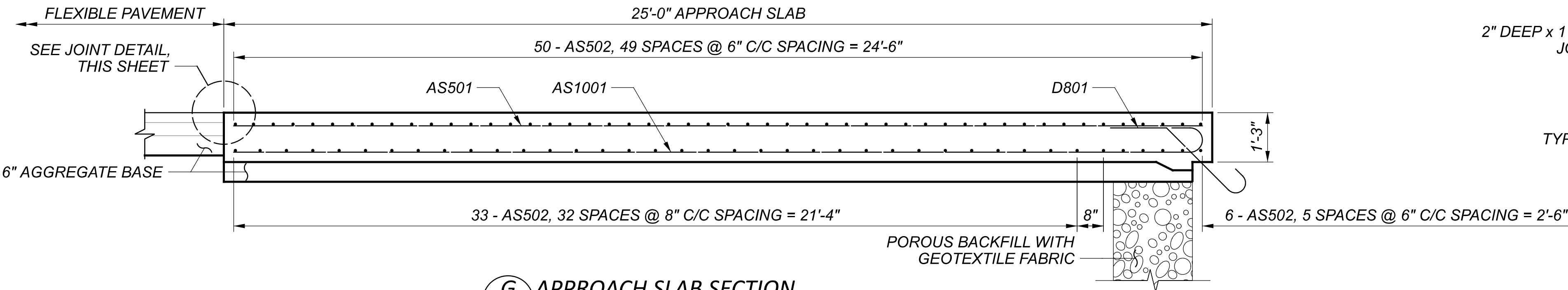
JOINT DETAIL

NOTES

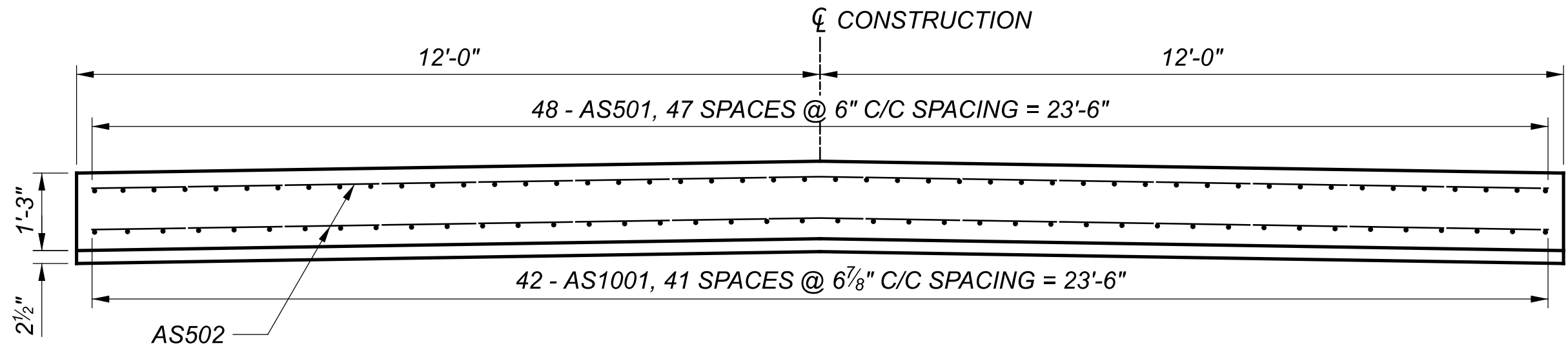
3" CLEAR COVER UNLESS OTHERWISE NOTED.
SEE STANDARD CONSTRUCTION DRAWINGS
AS-1-15 FOR ADDITIONAL NOTES AND DETAILS.
LAP LENGTH #5 BAR = 3'-1"
LAP LENGTH #10 BAR = 6'-9"



PLAN

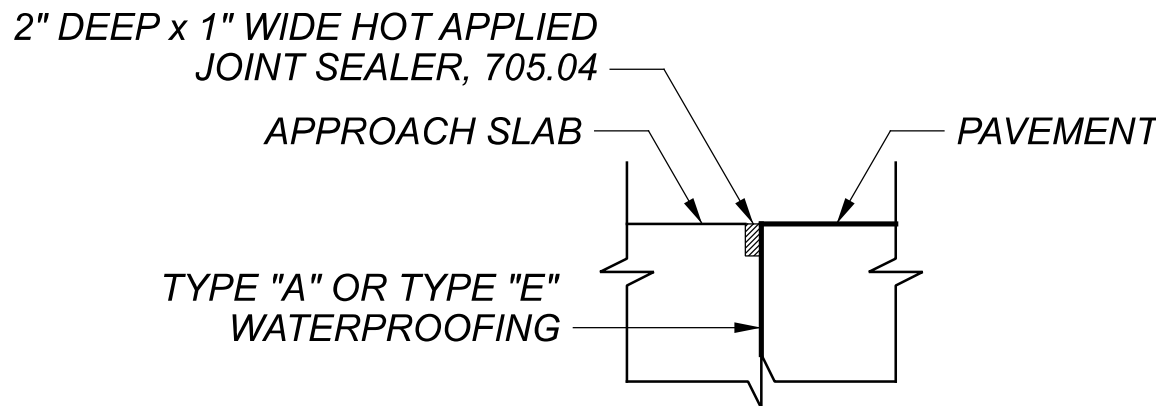


13 APPROACH SLAB SECTION



TRANSVERSE SECTION

FORWARD APPROACH SLAB SURFACE ELEVATION		
POINT	STATION	ELEVATION
A	12+15.55	736.01
B	12+12.56	736.21
C	12+09.57	736.02
D	11+90.55	736.05
E	11+87.56	736.25
F	11+84.57	736.06



JOINT DETAIL