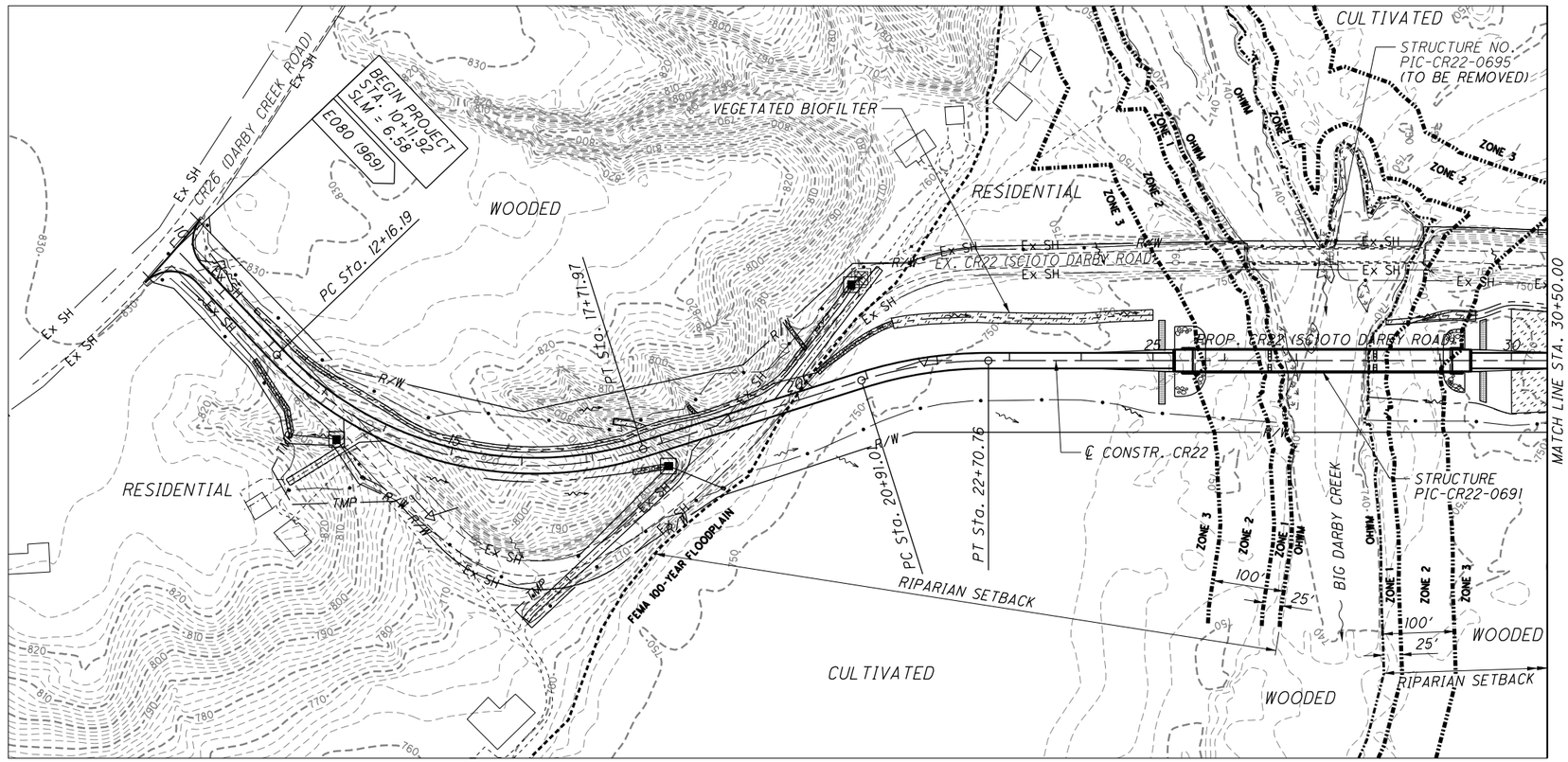

PROJECT DESCRIPTION

IMPROVEMENT OF 0.54 MILES OF CR22 (SCIOTO DARBY ROAD) BY REPLACING THE EXISTING TWO SPAN PRATT THROUGH TRUSS, OVER BIG DARBY CREEK, INCLUDING RECONSTRUCTION OF THE APPROACH ROADWAY, GRADING AND DRAINAGE.

USGS QUADRANT NO. 39083-G2-TF-024. HARRISBURG, OHIO

LONGITUDE: 83°08'55" W*
LATITUDE: 39°45'10" N*

* LONGITUDE AND LATITUDE TO APPROXIMATE CENTER OF PROJECT.

LEGEND

- ROCK CHANNEL PROTECTION, TYPE A OR C WITH FABRIC FILTER, AS PER PLAN
- EROSION CONTROL MAT
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- EXISTING FLOW ARROW
- PROPOSED FLOW ARROW
- ZONE 1 — RIPARIAN SETBACK ZONES
- FEMA — FEMA 100-YEAR FLOODPLAIN

HORIZONTAL SCALE IN FEET: 0, 50, 100, 200

BMP LOCATIONS

BMP TYPE	BEGIN STATION AND OFFSET	END STATION AND OFFSET	BEGIN LATITUDE LONGITUDE	END LATITUDE LONGITUDE
VEG. BIOFILTER	CENTER OF SWALE 21+50, 65.8' LT	CENTER OF SWALE 25+00, 63.7' LT	39.751553 83.147716	39.752549 83.147707
VEG. FILTER STRIP	EDGE OF PVMT TO 30+00, 71.8' LT	EDGE OF PVMT TO 35+50, 25.2' LT	39.753921 83.147667	39.755384 83.147800
VEG. FILTER STRIP	EDGE OF PVMT TO 30+00, 73.4' RT	EDGE OF PVMT TO 36+00, 36.3' RT	39.753906 83.147151	39.755539 83.147604

PROJECT DATA

TOTAL AREA (RIGHT-OF-WAY)	13.81 Ac.	SOIL AND WATER CONSERVATION MAP	PICKAWAY COUNTY, OH (OH129)
PROJECT EARTH DISTURBED AREA	12.95 Ac.	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.37
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.25 Ac.	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.42
NOTICE OF INTENT EARTH DISTURBED AREA	13.20 Ac.	IMMEDIATE RECEIVING WATERS	BIG DARBY CREEK
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	1.43 Ac.	SUBSEQUENT RECEIVING WATERS	SCIOTO RIVER
IMPERVIOUS (PAVED) AREA FOR POST-CONSTRUCTION SITE	1.76 Ac.	RECEIVING WATERS REGULATED TOTAL MAXIMUM DAILY LOAD (TMDL) WATER BODY	YES

POST-CONSTRUCTION BMP: VEGETATED BIOFILTERS AND VEGETATED FILTER STRIPS ARE PROVIDED TO MEET NPDES POST-CONSTRUCTION REQUIREMENTS.

PROJECT SITE PLAN

PIC-CR22-6.58

1 / 4

16 / 86

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CROSS REFERENCES	
SHEET	DESCRIPTION
2	SCHEMATIC PLAN
45,46	SUPERELEVATION TABLES
47	INTERSECTION DETAIL
47-50	DRIVE DETAILS

ROCK CHANNEL PROTECTION CALCS

E14 = AREA x THICKNESS
E14 = (2905.40 SQ FT ⌖) x 3.0 FT x (1/27)
E14 = 323 CU YD

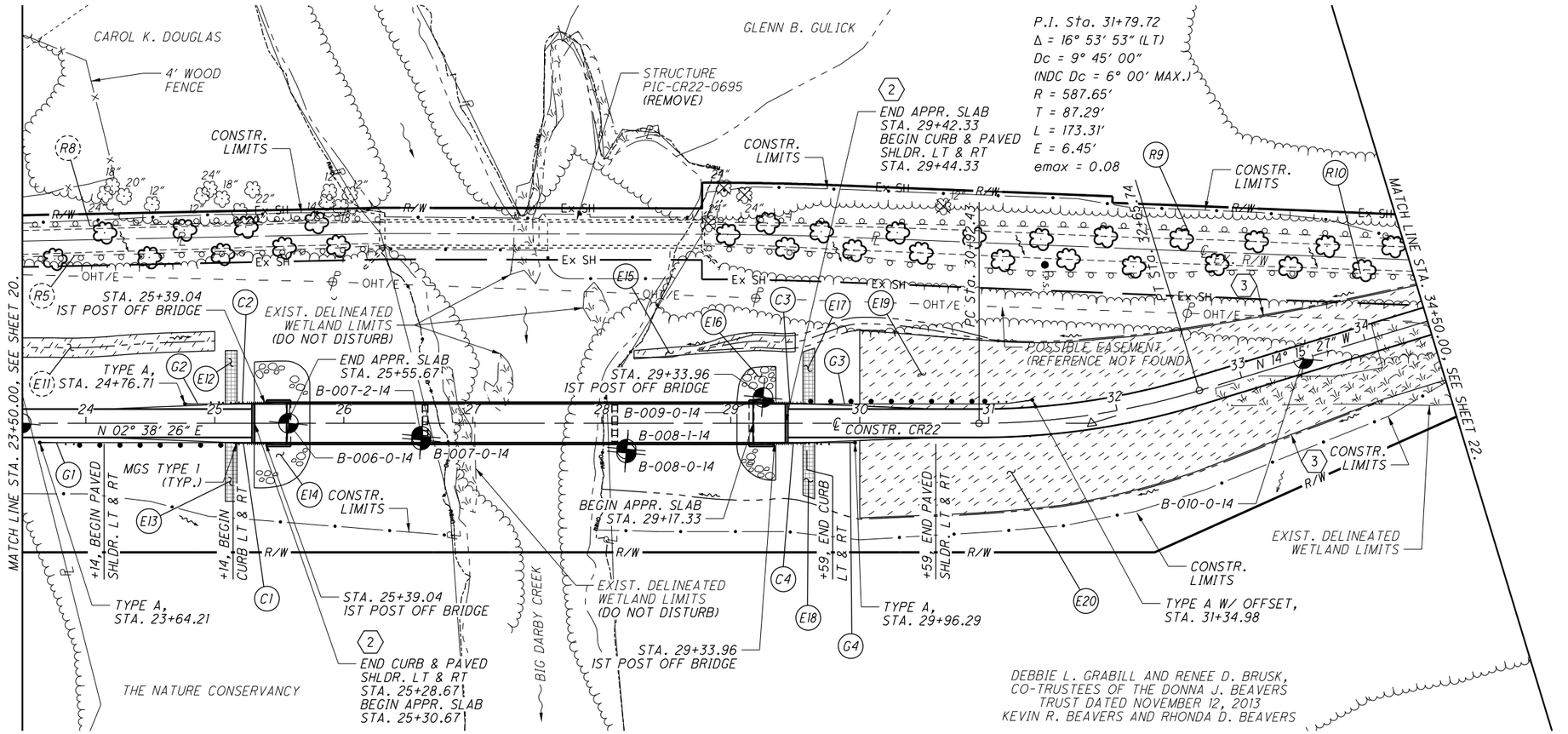
E16 = AREA x THICKNESS
E16 = (1664.02 SQ FT ⌖) x 3.0 FT x (1/27)
E16 = 185 CU YD

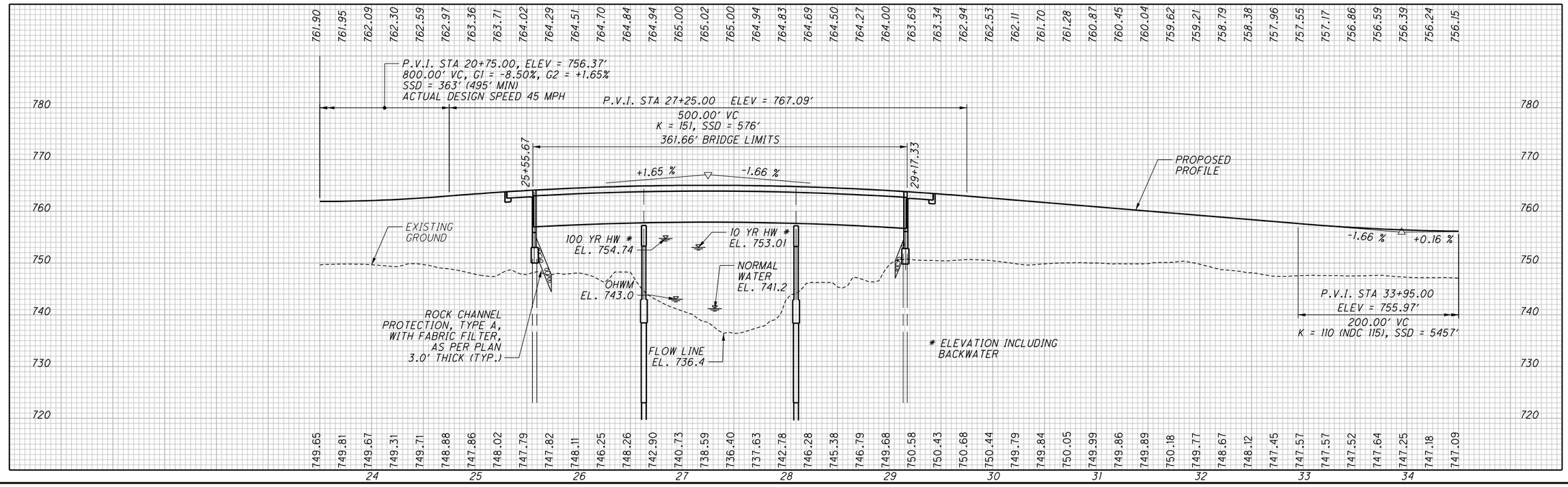
⌖ CADD CALCULATED AREA

CODED NOTES

(2) TAPER CURB HEIGHT FROM 4 INCHES TO 3 INCHES IN THE LAST 3 FEET OF CURB, AS PER SCD DM-4.1.

(3) EXTEND ITEM 670, SLOPE EROSION PROTECTION MAT TO THE INSIDE EDGE OF THE DITCH BOTTOM.





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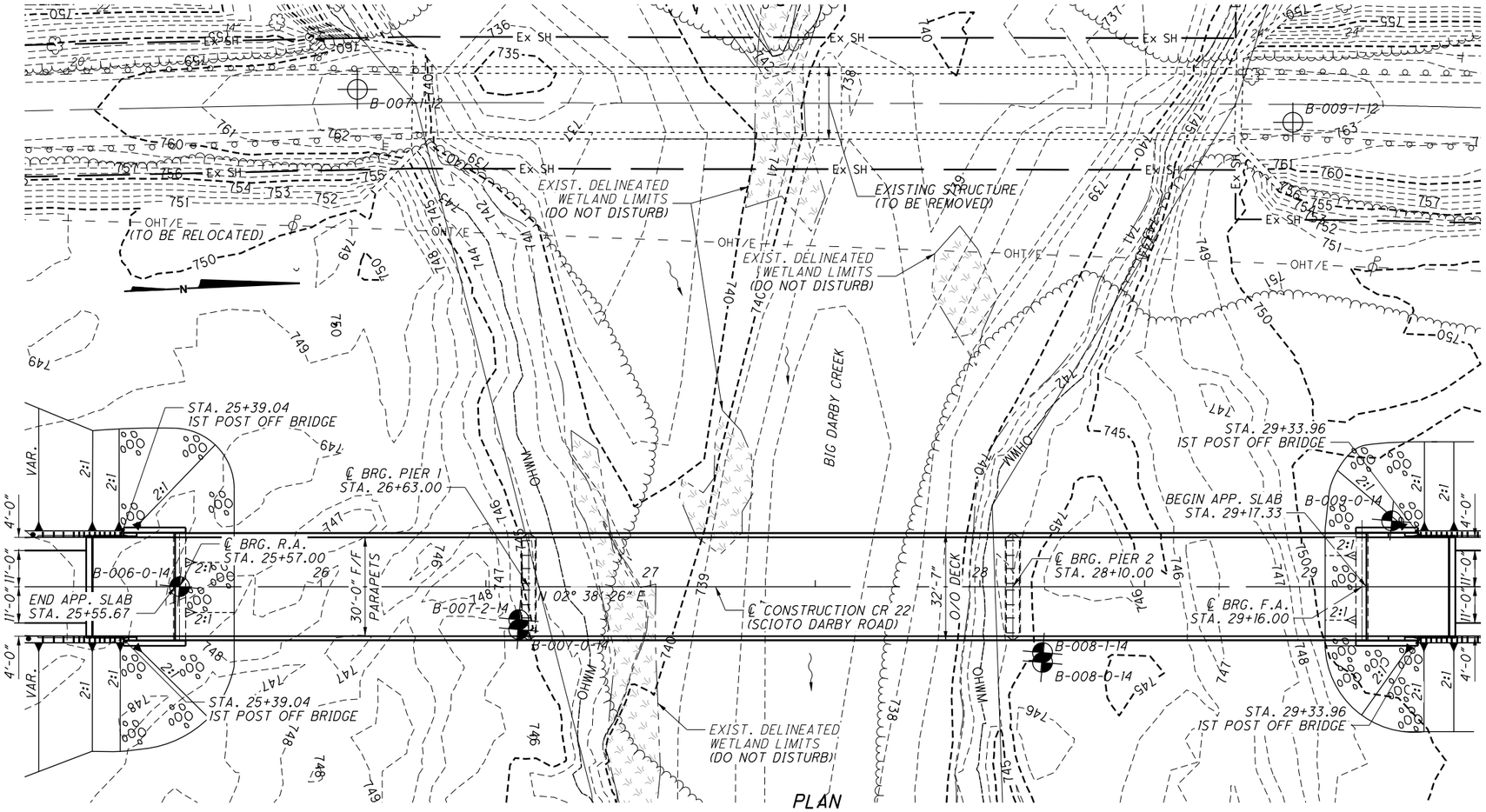
N

HORIZONTAL SCALE IN FEET
0 25 50 100

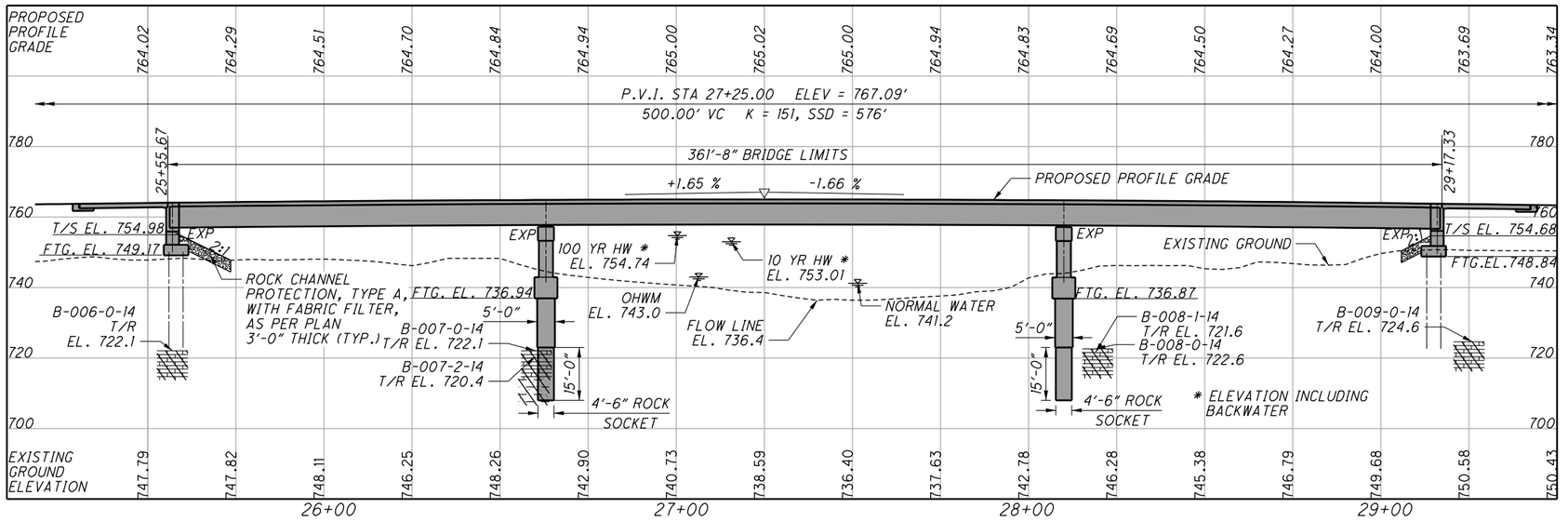
CALCULATED CLP
CHECKED BMV

PLAN AND PROFILE
STA. 23+50.00 TO STA. 34+50.00

PIC-CR22-6.58



PLAN



PROFILE ALONG ℄ CONSTRUCTION CR 22

BENCHMARK DATA

BM #1 STA. 42+63.07, ELEV. 758.14, OFFSET 15.20', LEFT
BM #2 STA. 18+56.32, ELEV. 763.85, OFFSET 64.23', RIGHT

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET 2/86

NOTES

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

DESIGN TRAFFIC:
2012 ADT = 160 2012 ADTT = 5
2032 ADT = 180 2032 ADTT = 5
DIRECTIONAL DISTRIBUTION = 0.55

LEGEND

BORING LOCATION

PILE DATA

REAR ABUTMENT: HP 14X73 STEEL PILES
ESTIMATED LENGTH 30 FT.
FORWARD ABUTMENT: HP 14X73 STEEL PILES
ESTIMATED LENGTH 30 FT.

HYDRAULIC DATA

DRAINAGE AREA = 512 SQ. MILES
Q (10) = 18,400 CFS V (10) = 7.7 FT/S
Q (100) = 29,200 CFS V (100) = 11.5 FT/S
STRUCTURE CLEARS THE 10 YEAR DESIGN HW BY 3.7 FEET.

EXISTING STRUCTURE

TYPE: TWO SPAN PIN-CONNECTED PRATT THROUGH TRUSS ON CONCRETE GRAVITY ABUTMENTS AND PIERS WITH CORRUGATED STEEL PLATE DECK WITH ASPHALT CONCRETE
SPANS: 2 SPANS AT 125'-0" ± C/C BEARINGS
ROADWAY: 17.3 ± FT. F/F GUARDRAIL
LOADING: UNKNOWN
SKEW: NONE
APPROACH SLABS: NONE
ALIGNMENT: TANGENT
CROWN: NORMAL
STRUCTURE FILE NUMBER: 6530192
DATE BUILT: 1910
DISPOSITION: TO BE REPLACED

PROPOSED STRUCTURE

TYPE: THREE SPAN COMPOSITE PRESTRESSED CONCRETE I-BEAMS WITH CONCRETE DECK AND REINFORCED CONCRETE SEMI INTEGRAL ABUTMENTS ON PILES AND T-TYPE PIERS ON SHAFTS
SPANS: 106'-0"; 147'-0'; 106'-0" C/C SUBSTRUCTURES
ROADWAY: 30'-0" TOE/TOE PARAPET
LOADING: HL-93 AND 60 P.S.F. FUTURE WEARING SURFACE
SKEW: NONE
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: 25'-0" LONG (AS-1-15) (MODIFIED)
ALIGNMENT: TANGENT
CROWN: 0.016 FT/FT
COORDINATES: LATITUDE 39° 45' 10" N
LONGITUDE 83° 08' 50" W

DESIGN AGENCY
KORDA
KORDA/MENTH ENGINEERING, INC. - CONSULTING ENGINEERS
REGISTERED ENGINEERS & SURVEYORS, LTD. - COLUMBUS, OH. 43215-7025
TEL. 614-487-1650 FAX 614-487-8881 WEB www.korda.com

DESIGNED	DRAWN	REVIEWED	DATE
CAB	CAB	BMV	9/30/15
CHECKED	REVISED	STRUCTURE FILE NUMBER	
AJS		6530184	

PICKAWAY COUNTY
STA. 25+55.50
STA. 29+17.50

SITE PLAN
BRIDGE NO. PIC-CR22-0691
SCIOTO DARBY ROAD OVER BIG DARBY CREEK

PIC-CR22-6.58
PID No. 83541

1/24
55/86

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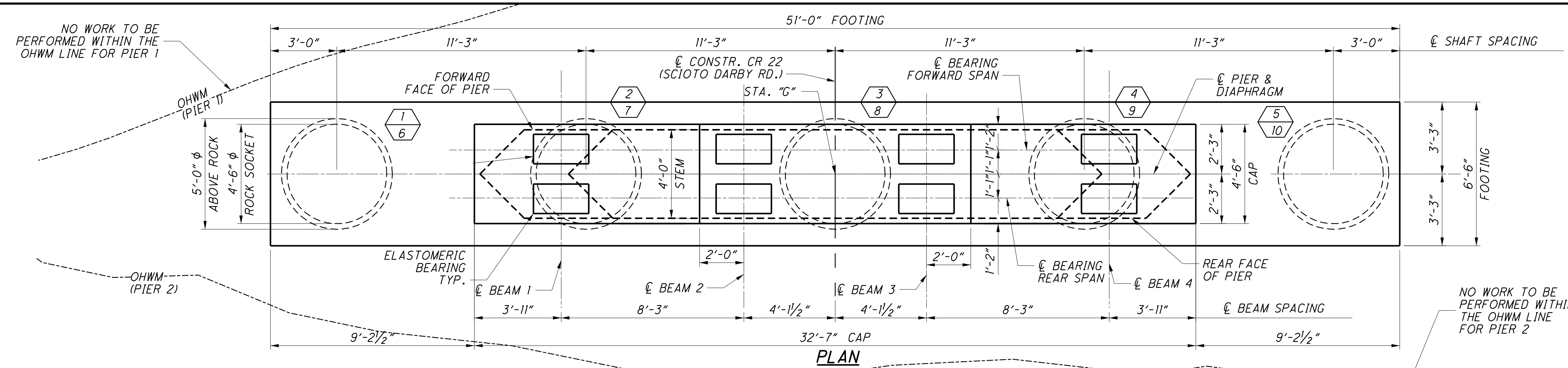


PLAN

NOTE:

ALL CONSTRUCTION ACTIVITIES ARE TO BE PERFORMED OUTSIDE OF THE LIMITS OF THE OHWM.

TABLE OF ELEVATIONS

LOCATION	EL. "A"	EL. "B"	EL. "C"	EL. "D"	EL. "E"	EL. "F"	STA. "G"
PIER 1	757.13	757.26	757.26	757.13	753.63	742.94	STA. 26+63.00
PIER 2	757.01	757.14	757.14	757.01	753.51	742.87	STA. 28+10.00

NOTES:

1. SEE SHEET 4/24 FOR ABBREVIATIONS.
2. SEE SHEET 13/24 FOR PIER DIAPHRAGM DETAILS.
3. SEE SHEET 11/24 FOR AESTHETIC TREATMENT OF PIER.
4. SEE SHEET 16/24 FOR PIER BEARING ORIENTATION.
5. SEE SHEET 19/24 FOR BEARING DETAILS.
6. SEE SHEET 23/24 FOR REINFORCING STEEL DETAILS.

MIN BAR LAP

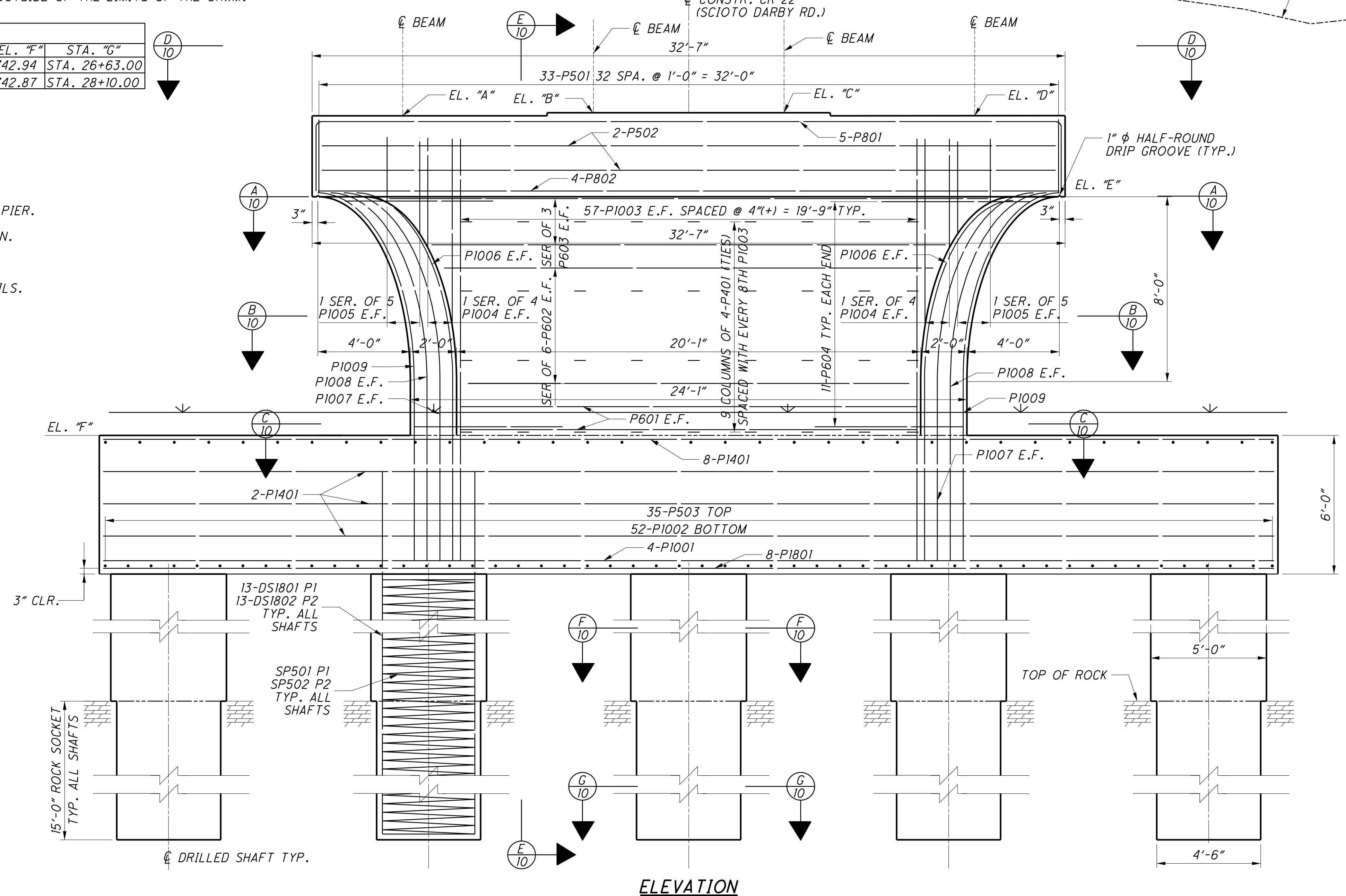
#5 = 3'-5"
#6 = 4'-4"
#8 = 7'-3"
#10 = 11'-7"

LEGEND

P1/P2 - DRILLED SHAFT NUMBER

P1 - PIER 1

P2 - PIER 2



ELEVATION

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DESIGN AGENCY	KORDA — KORDA/NEMETH ENGINEERING, INC - CONSULTING ENGINEERS, 1650 Watermark Drive, Suite 200 - Columbus Oh 43215-7010, TEL 614-487-1650 FAX 614-487-8981 WEB www.korda.com
DESIGNED	ZLS
CHECKED	CAB
DRAWN	ZLS
REVISED	
REVIEWED	BMV
DATE	9/30/15
STRUCTURE FILE NUMBER	6530184

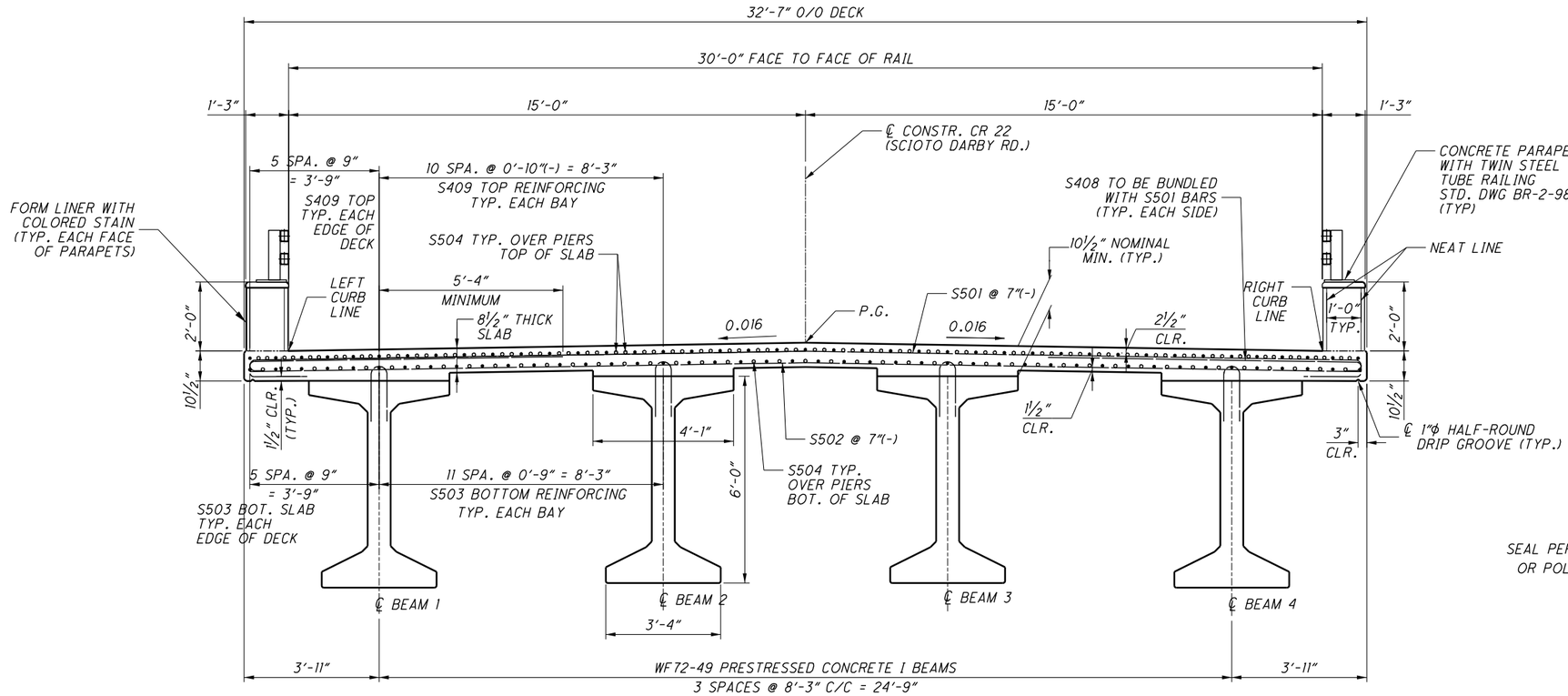
PIER DETAILS

BRIDGE NO. PIC-CR22-0691

SCIOTO DARBY ROAD OVER BIG DARBY CREEK

PIC-CR22-6.58

PID No. 83541

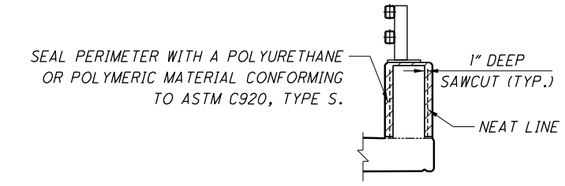


TRANSVERSE SECTION

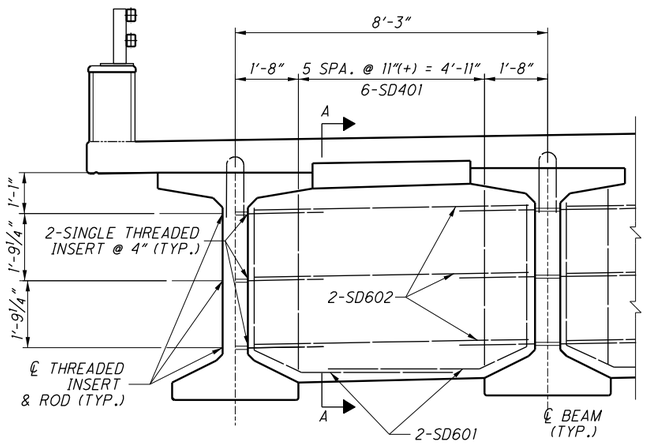
SEE SHEET 14/24 FOR DECK REINFORCING AND ELEVATION PLAN.
SEE SHEET 15/24 FOR SCHEMATIC DECK SLAB DIAGRAM.
SEE SHEET 16, 17, & 18/24 FOR BEAM DETAILS.
SEE SHEET 20/24 FOR DETAILS OF ARCHITECTURAL TREATMENT.

MINIMUM BAR LAP

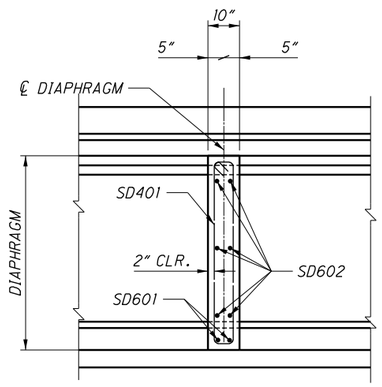
#4 - 2'-0"
#5 - 2'-6"
#6 - 3'-0"



CONTROL JOINT SECTION



INTERMEDIATE DIAPHRAGM

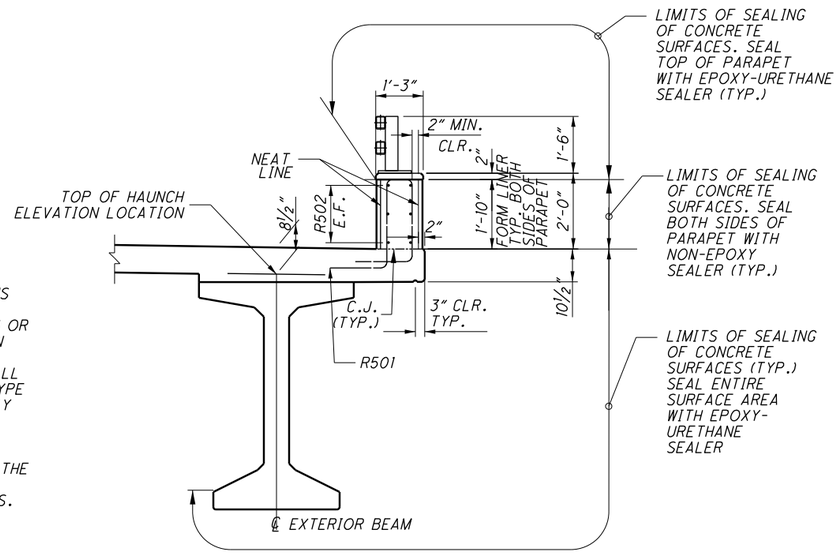


SECTION A-A

NOTES:

1. THE INTERMEDIATE DIAPHRAGMS MAY BE EITHER CAST-IN-PLACE, CLASS QC2 CONCRETE AS SHOWN OR GALVANIZED STEEL AS SHOWN ON SHEET 9 OF 10 OF STD. DWG. PSID-1-13. THE CONTRACTOR SHALL CHOOSE THE TYPE. ONLY ONE TYPE OF INTERMEDIATE DIAPHRAGM MAY BE USED PER STRUCTURE.

2. PAYMENT FOR INTERMEDIATE DIAPHRAGMS SHALL BE MADE AT THE CONTRACT PRICE FOR ITEM 515, EACH, INTERMEDIATE DIAPHRAGMS.



SEALING DETAIL

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DESIGN AGENCY
KORDA/MENKE ENGINEERING, INC. - CONSULTING ENGINEERS
8050 Worthington Road, Suite 200 - Columbus, OH 43085-6320
TEL 614-487-1650 FAX 614-487-8881 WEB www.korda.com

DESIGNED	DRAWN	REVIEWED	DATE
CAB	ZLS	BMV	9/30/15
CHECKED	REVISED	STRUCTURE FILE NUMBER	
AJS		6530184	

TRANSVERSE SECTION AND SUPERSTRUCTURE DETAILS
BRIDGE NO. PIC-CR22-0691
SCIOTO DARBY ROAD OVER BIG DARBY CREEK

PIC-CR22-6.58
PID No. 83541

12 / 24

66
86