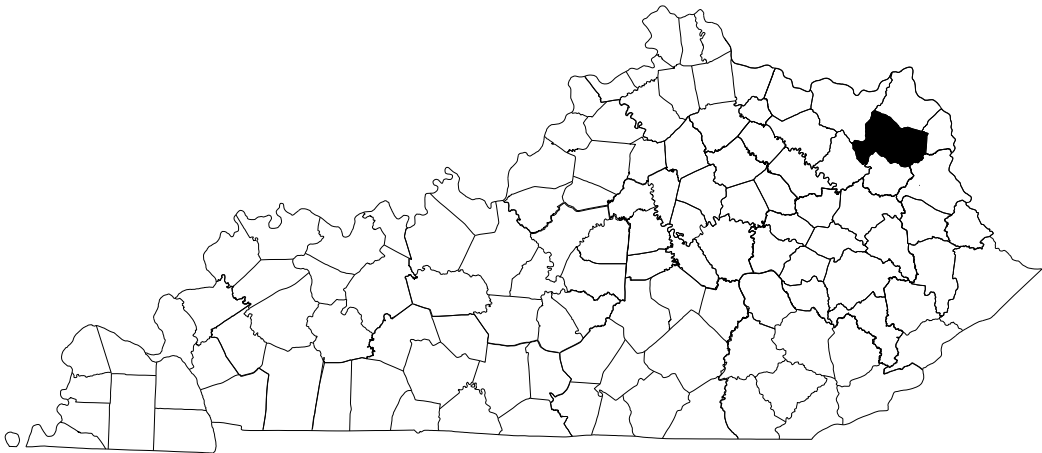


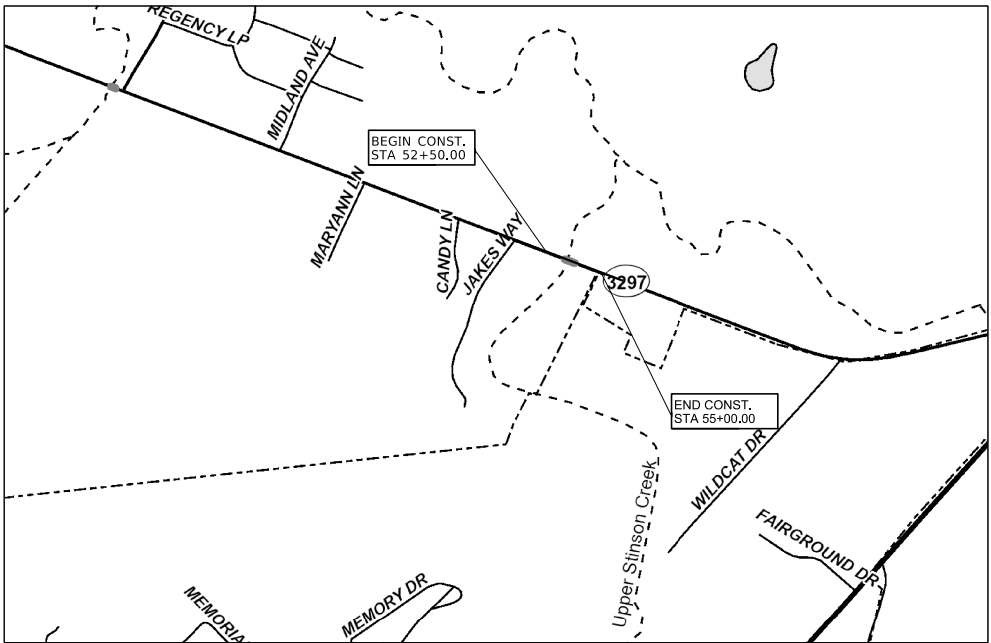
COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS

PLANS OF  
PROPOSED PROJECT  
Midland Trail (KY 3297)  
Over Upper Stinson Creek,  
Carter County, Kentucky  
Grade, Drain, and Surfacing Plans



THIS PROJECT IS OFF THE NH SYSTEM

THE CONTROL OF ACCESS ON THIS  
PROJECT SHALL BE BY PERMIT



LAYOUT MAP

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.



LOCHNER

LETTING DATE: 7/20/2023

ITEM NO. 09-40001.00 COUNTY OF CARTER

SHEET NO. R001

RECOMMENDED BY: Carl van Zee 05/30/23  
PROJECT MANAGER DATE:

PLAN APPROVED BY: STATE HIGHWAY ENGINEER DATE:

MIDLAND TRAIL (KY 3297)

LENGTH <u>186.5</u> LIN. FT. <u>0.035</u> MILES ADDED <input type="checkbox"/> FOR EQUALITIES <u>X</u> LIN. FT. DEDUCTED <input type="checkbox"/> NOT INCLUDED	LENGTH <u>X</u> LIN. FT. <u>X</u> MILES ADDED <input type="checkbox"/> FOR EQUALITIES <u>X</u> LIN. FT. DEDUCTED <input type="checkbox"/> NOT INCLUDED	LENGTH <u>X</u> LIN. FT. <u>X</u> MILES ADDED <input type="checkbox"/> FOR EQUALITIES <u>X</u> LIN. FT. DEDUCTED <input type="checkbox"/> NOT INCLUDED	LENGTH <u>X</u> LIN. FT. <u>X</u> MILES ADDED <input type="checkbox"/> FOR EQUALITIES <u>X</u> LIN. FT. DEDUCTED <input type="checkbox"/> NOT INCLUDED
RAILROAD CROSSINGS NO. <u>X</u> LIN. FT. BRIDGES <u>63.5</u> LIN. FT. <u>X</u> <u>X</u>	RAILROAD CROSSINGS NO. <u>X</u> LIN. FT. BRIDGES <u>X</u> LIN. FT. <u>X</u> <u>X</u>	RAILROAD CROSSINGS NO. <u>X</u> LIN. FT. BRIDGES <u>X</u> LIN. FT. <u>X</u> <u>X</u>	RAILROAD CROSSINGS NO. <u>X</u> LIN. FT. BRIDGES <u>X</u> LIN. FT. <u>X</u> <u>X</u>

PROJECT NUMBER:

PROJECT DESCRIPTION: BRIDGE REPLACEMENT, MIDLAND TRAIL OVER  
UPPER STINSON CREEK. BRIDGE ID#022B00138N

DESIGN CRITERIA

CLASS OF HIGHWAY MAJOR COLLECTOR  
TYPE OF TERRAIN ROLLING  
DESIGN SPEED 55 MPH  
REQUIRED NPSD 495'  
REQUIRED PSD 900'  
LEVEL OF SERVICE NA  
ADT PRESENT ( 2021 ) 2,156  
ADT FUTURE ( X ) X  
DHV X  
D % 55  
T % X

GEOGRAPHIC COORDINATES

LATITUDE 38 DEGREES 20 MINUTES 08 SECONDS NORTH  
LONGITUDE 82 DEGREES 54 MINUTES 23 SECONDS WEST

DESIGNED

% RESTRICTED SD X  
LEVEL OF SERVICE X  
MAX. DISTANCE W/O PASSING X

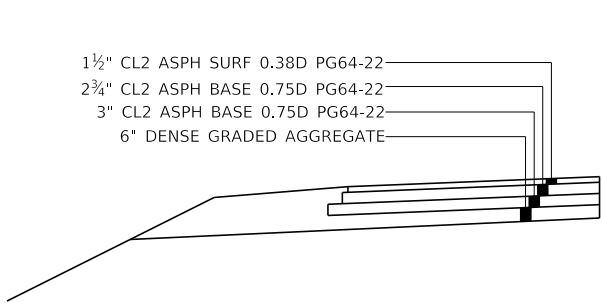
INDEX OF SHEETS

R1 LAYOUT SHEET  
R2 TYPICAL SECTIONS  
R2A GENERAL SUMMARY SHEET  
R2B GENERAL NOTES AND SPECIAL NOTES  
R3 LEGEND AND UTILITY OWNERS  
R4 - R5 PLAN AND PROFILE SHEETS  
R6 MOT NOTES AND PHASING  
R7 DETOUR SHEET  
R8 - R9 EROSION CONTROL SHEETS  
R10 COORDINATE CONTROL & ROW STRIP MAP  
R11 ROW SUMMARY SHEET  
X1 - X4 CROSS SECTION SHEETS

STANDARD DRAWINGS

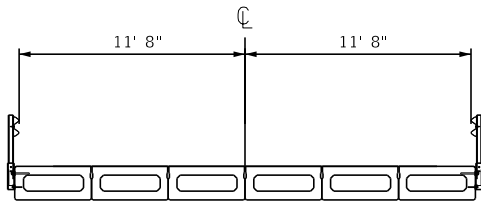
RBI-001-012	RBR-020-007	RDX-225-001	SEPIA 001
RBI-004-006	RBR-055-001	RGX-001-006	SEPIA 017
RBR-001-013	RDI-040-001	RGX-005-006	
RBR-005-011	RDX-210-003	RGX-010-004	
RBR-010-006	RDX-215-001	RGX-100-007	
RBR-015-006	RDX-220-005	RGX-105-009	
		RGX-200-001	

# TYPICAL SECTIONS



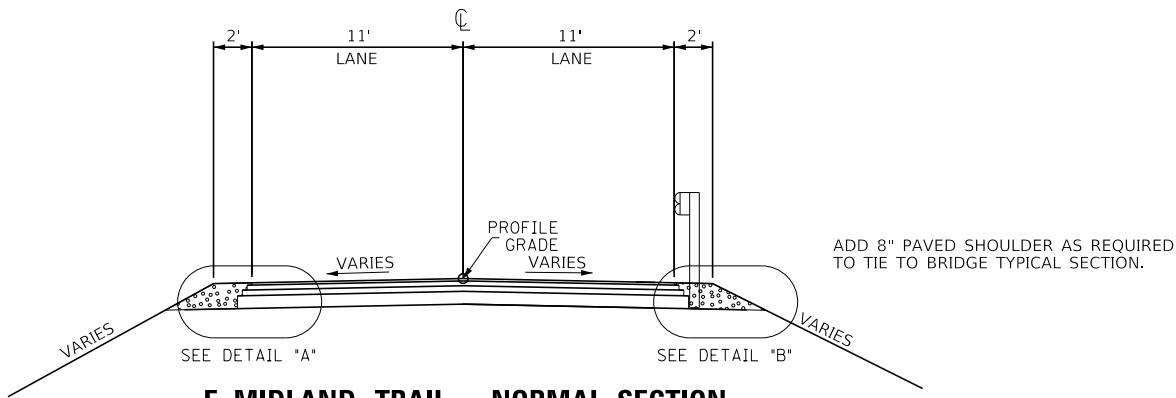
## DETAIL "A" – PAVEMENT DESIGN

FROM EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE SLOPE  
BITUMINOUS SEAL - TWO APPLICATIONS OF THE FOLLOWING:  
ASPHALT SEAL COAT            2.4 LB/SY  
ASPHALT SEAL AGGREGATE    20 LB/SY



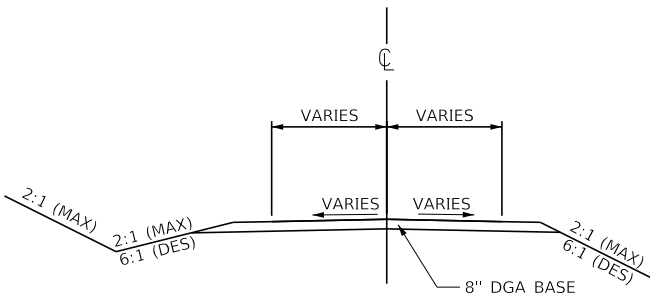
## BRIDGE DETAIL

STA 53+43.25 TO STA 54+06.75

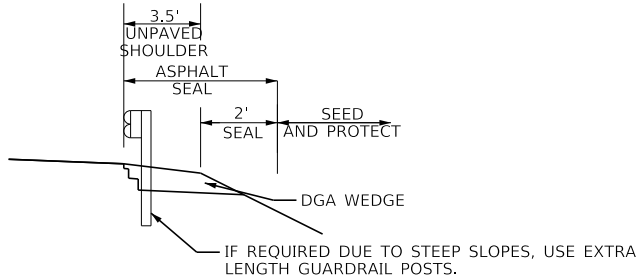


## E MIDLAND TRAIL – NORMAL SECTION

STA 52+50.00 TO STA 53+43.25  
STA 54+06.75 TO STA 55+00.00

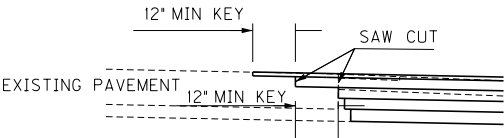


## ENTRANCE TYPICAL SECTION



## DETAIL "B" – GUARDRAIL INSTALLATION

BITUMINOUS SEAL - TWO APPLICATIONS OF THE FOLLOWING:  
ASPHALT SEAL COAT            2.4 LB/SY  
ASPHALT SEAL AGGREGATE    20 LB/SY



## EDGE KEY

ALL SAW CUTS FOR EDGE KEY  
ARE INCIDENTAL TO EDGE KEY.  
CONTRACTOR IS RESPONSIBLE  
FOR VERIFYING EXISTING  
PAVEMENT DEPTHS, AND ELEVATIONS.

</					

General Notes

Special Notes

DIVISION 100 -- GENERAL PROVISIONS

165 BEFORE YOU DIG

THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6007 TO REACH KY 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE KY 811 ONE-CALL BEFORE-U-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO KY 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.

DIVISION 400 – ASPHALT PAVEMENTS

448 COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNITSHED ON THIS PROJECT BY OPTION B ACCORDING TO SUBSECTIONS 402.03.02 AND 403.03.10 OF THE STANDARD SPECIFICAITONS.

DIVISION 600 -- STRUCTURES AND CONCRETE

650 STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY. AT (502) 564-4610

THE CONTRACTOR IS ADVISED THAT THE EARTHWORK CALCULATIONS SHOWN ARE FOR INFORMATION ONLY. ASSUMPTIONS FOR SHRINKAGE AND SWELL FACTORS ARE THE CONTRACTOR’S RESPONSIBILITY.

IN THE AREA ALONG UPPER STINSON CREEK, CLEAR AND GRUB ONLY THAT RIPARIAN AREA THAT IS NECESSARY FOR STAGING AND CONSTRUCTION. IF VEGETATION DOES NOT CONFLICT WITH CONSTRUCTION ACTIVITIES IT SHOULD REMAIN UNDISTURBED.

SPECIAL PROVISION 69 FOR EMBANKMENT AT BRIDGE END BENT STRUCTURES SHALL APPLY. PER SPECIAL PROVISION 69, PILE CORE SHALL BE INCIDENTAL TO ROADWAY EXCAVATION.

SPECIAL NOTE FOR BARCODES ON PERMANENT SIGNS 2019 SHALL APPLY.



Corporate Limits			Main Water Marker		Crash Cushion TY 9		Point (Misc)		Telephone Pedestal	
County Line			Main Water Greater Than 12 Marker		Cross Notch		Pole		Telephone Pole	
Easement			Sewer Sanitary Marker		Curb Box Inlet		Pole (Light)		Temporary Benchmark	
Fence COA			Sewer Sanitary Force Main Marker		Curb Notch		Post		Traffic Light	
Mineral Parcel			Sewer Storm Marker		Combination Pole		Power Pole		Traffic Signal Control Box	
Property Line			Sewer Storm Marker		Delineator Post		Quarry		Traffic Signal Junction Box	
Right of Way Line			Multi Utility Bank Marker		Drop Box		Random (Ground Shot)		Traffic Signal Pole	
All Overhead Utility Lines			Oil Line Marker		Existing Spring		Railroad Mile Marker		Traverse Point	
Cable Underground Electric With Quality Levels			Steam Line Marker		Electric Manhole		Railroad Spike		Tree	
Duct Underground Electric With Quality Levels			Cable Guardrail		Electric Meter		Right of Way Marker		TV Junction Box	
Cable Underground Fiber With Quality Levels			Ditch		Electric Pedestal		Right of Way Monument		Utility Pole	
Cable Underground Telephone With Quality Levels			Edge of Water		Electric Junction Box		RR Traffic Signal Pole		Underground Storage Tank	
Duct Underground Telephone With Quality Levels			Fence Hedge		Fire Hydrant		RW Parcel		Utility Test Hole	
Cable Underground TV With Quality Levels			Fence		Flag Pole		Sanitary Cleanout		Water Line Marker	
Main Gas With Quality Levels			Flow Line/Thalweg/ Int. Stream or Ditch		Force Main Sewer Valve		Sanitary Manhole		Water Meter	
Main Water With Quality Levels			Guardrail		Fuel Tank Inlet		Satelite Dish		Water Spigot	
Main Water Greater Than 12 With Quality Levels			Railroad		Fuel Tank Vent		Septic Tank Cleanout		Water Valve	
Sewer Sanitary With Quality Levels			Shrub Line		Gas Meter		Service Pole		Water Well	
Sewer Sanitary Force Main With Quality Levels			Sink Hole		Gas Monitoring Well		Sewer Air Release Valve		Yard Light	
Sewer Storm With Quality Levels			Tree Line		Gas Valve		Shrub		Yard Sprinkler	
Multi Utility Bank Quality Levels			Wall (WSM or DSM)		Gas Vent		Sign		Yard Sprinkler Water Valve	
Oil Line Quality Levels			Blue Line Stream		Gas Well		Sign Post (Single)			
Steam Line Quality Levels			Lakes and Ponds		Guidewires & Anchors		Sign with 2 posts			
Cable Underground Electric Marker			Regulated Floodway		Headstone		Sign group (4)			
Duct Underground Electric Marker			RDZ Line		Interstate Shield		Station Stamp			
Cable Underground Fiber Marker			ADA Ramp		Iron Pin		Storm Manhole			
Cable Underground Telephone Marker			Anchor Pole		Light Pole		Stub Power			
Duct Underground Telephone Marker			Benchmark		Low Wire		Stub Telephone			
Cable Underground TV Marker			Bike Lane Symbol		Mag Nail		Survey Cross Notch			
Main Gas Marker			Bollard		Mailbox		Survey Curb Notch			
			Centerline		Manhole		Survey Nail			
			Centerline Stationing		Mile Marker Post		Survey Spike			
			Control Monument		Mineral Parcel		Survey Stone Marker			
			Control Point		Misc Location Point		Swamp			
			Core Hole		Monitoring Well		Telephone Booth			
			Crash Cushion TY 6 D		Parking Meter		Telephone Junction Box			
			Crash Cushion TY 6 A		Pedestrian Signal		Telephone Line Overhead			
			Crash Cushion TY 9A		Pins/Pipes		Telephone Manhole			
					PK Nail					

Utility Owners

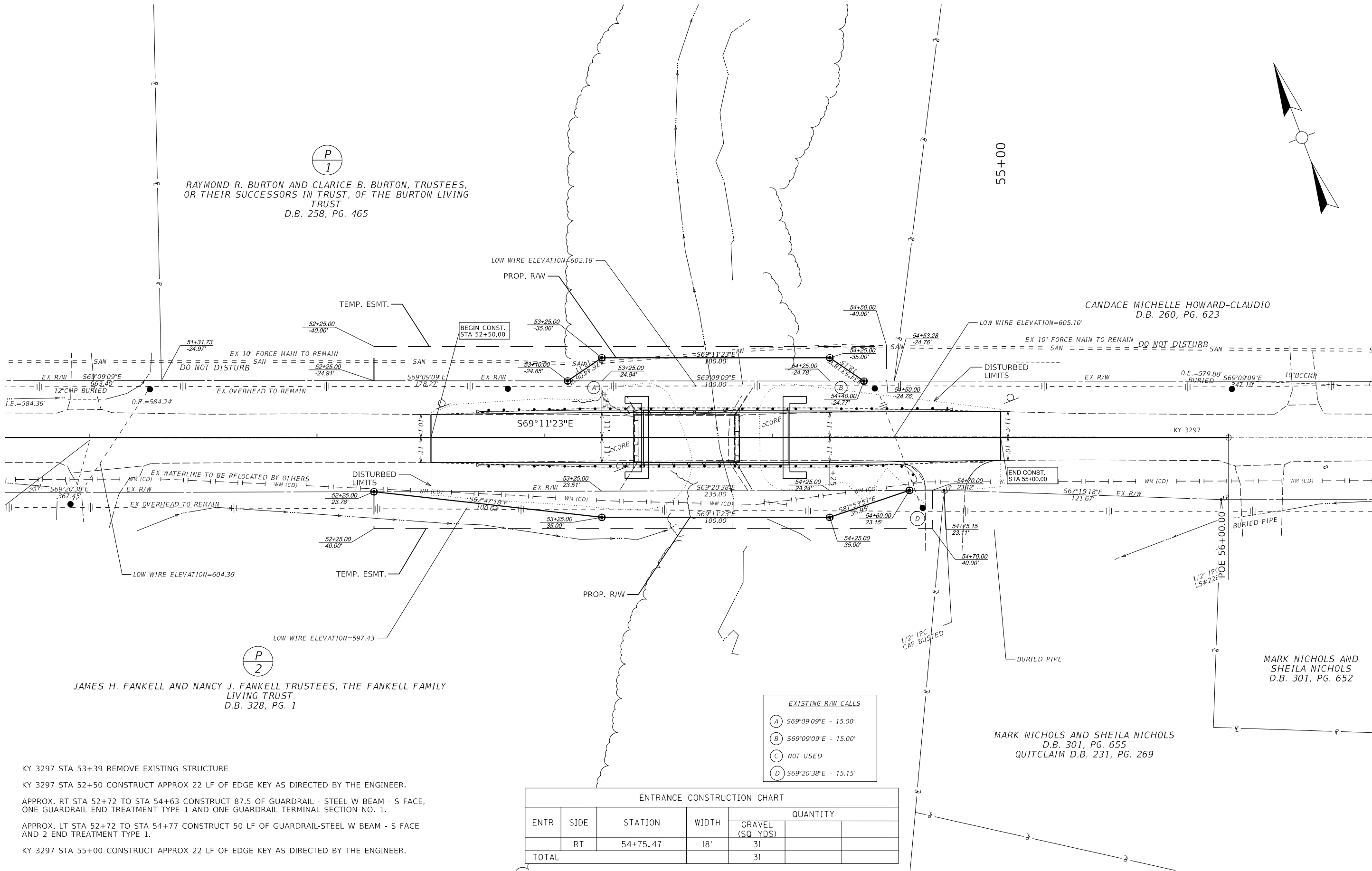
American Electric Power - Electric  
855 Central Avenue, Suite 200  
Ashland, KY 41101  
Contact - Pat Thovson  
606-831-2307  
pathovson@aep.com

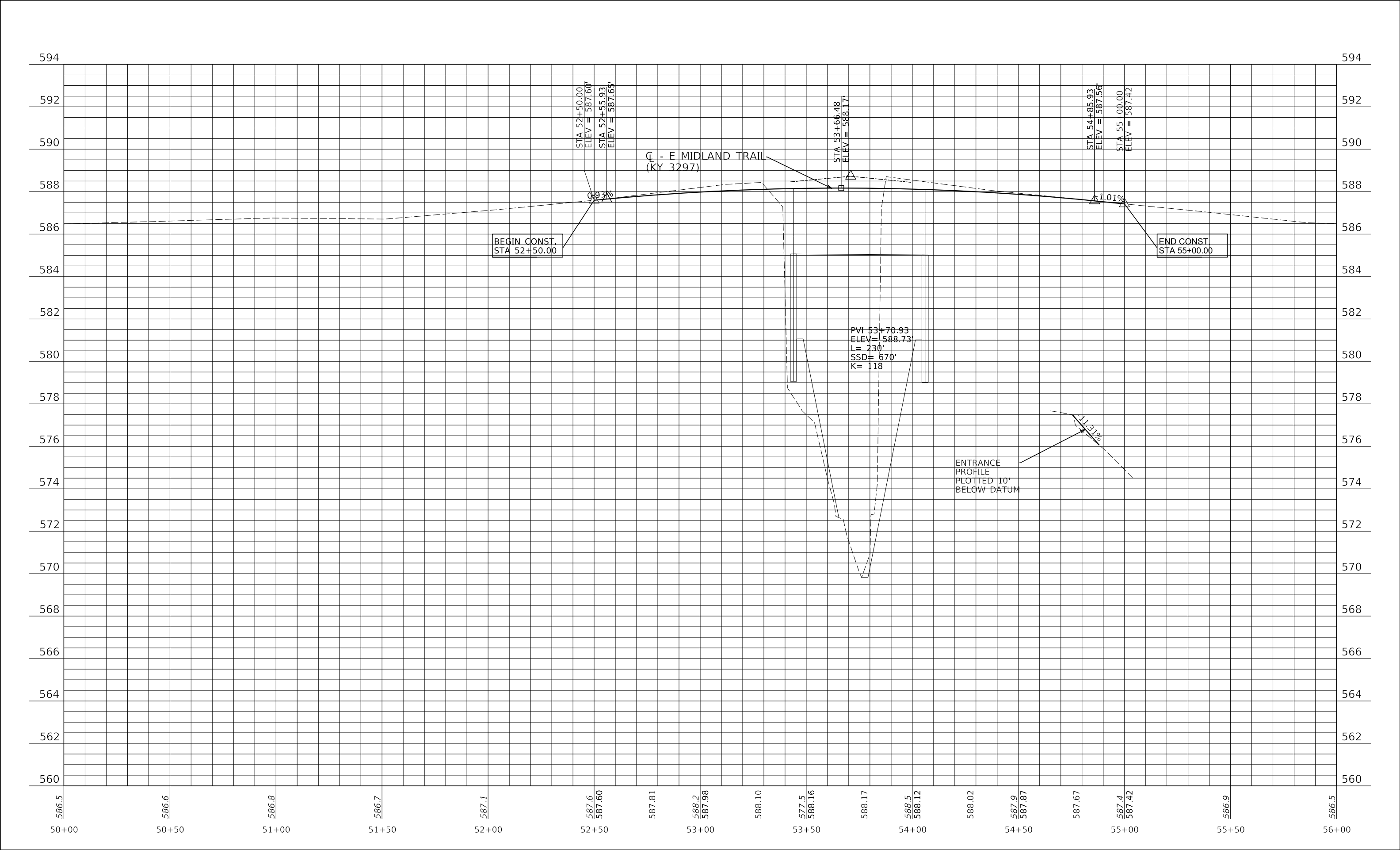
AT&T - KY - Communications  
2601 Trailwood Lane  
Lexington, KY 40511  
Contact - Mike Jones  
859-230-0282  
mj205c@att.com

Grayson Utilities Commission - Sewer/Water  
1671 S. State Highway 7  
Grayson, KY 41143  
Contact - Gerald Haney  
606-474-7569  
utilitysupt@graysonutilities.com

Spectrum- Charter Communications - CATV  
1617 Foxhaven Drive  
Richmond, KY 40475  
Contact - Ralph W. McDonie  
859-514-2417  
ralph.mcdonie@charter.com

Windstream Communications, LLC - Communications  
130 West New Circle Road  
Lexington, KY 40505  
Contacts - Mark Ware 606-329-6195  
mark.ware@windstream.com  
Steve Johnson 859-357-6209  
steve.johnson@windstream.com





GENERAL NOTES

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS, CURRENT EDITIONS.
2. EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC WILL BE PAID AT THE LUMP SUM BID PRICE TO "MAINTAIN AND CONTROL TRAFFIC" AS SET FORTH IN THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE PROVIDED FOR IN THESE NOTES. THE LUMP SUM BID TO "MAINTAIN AND CONTROL TRAFFIC" SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING ITEMS AND OPERATIONS:

A. ALL GRADING AND NECESSARY DRAINAGE (UNLESS A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED) FOR THE TEMPORARY ROADWAY AND REMOVAL THEREOF, WHEN IT IS NO LONGER NEEDED. IF A BID ITEM FOR DETOUR CONSTRUCTION IS INCLUDED, GRADING AND DRAINAGE WILL BE PAID FOR IN THE BID ITEM "DETOUR CONSTRUCTION".

B. ALL LABOR AND MATERIALS NECESSARY FOR CONSTRUCTION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AND MARKINGS.

C. ALL FLAGPERSONS AND TRAFFIC CONTROL DEVICES SUCH AS, BUT NOT LIMITED TO, FLASHERS, SIGNS, BARRICADES AND VERTICAL PANELS, PLASTIC DRUMS (STEEL DRUMS WILL NOT BE PERMITTED) AND CONES NECESSARY FOR THE CONTROL AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC AS SPECIFIED IN THESE NOTES, THE PLANS, THE MUTCD OR THE ENGINEER.
3. ANY TEMPORARY TRAFFIC CONTROL ITEMS, DEVICES, MATERIALS AND INCIDENTALS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED.
4. EXCEPTING THE ROAD CLOSURE AT THE EXISTING BRIDGE LOCATION, THE CONTRACTOR SHALL MAINTAIN THE EXISTING TRAVELED WAY WIDTH AS DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL COMPLETELY COVER ANY SIGNS, EITHER EXISTING, PERMANENT OR TEMPORARY, WHICH DO NOT PROPERLY APPLY TO THE CURRENT TRAFFIC PHASING, AND SHALL MAINTAIN THE COVERING UNTIL THE SIGNS ARE APPLICABLE OR ARE REMOVED.
6. IN GENERAL, ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED STARTING AND PROCEEDING IN THE DIRECTION OF THE FLOW OF TRAFFIC AND REMOVED STARTING AND PROCEEDING IN THE DIRECTION OPPOSITE THE FLOW OF TRAFFIC.
7. THE ENGINEER AND THE CONTRACTOR, OR THEIR AUTHORIZED REPRESENTATIVES, SHALL REVIEW THE SIGNING BEFORE TRAFFIC IS ALLOWED TO USE ANY LANE CLOSURES, CROSSOVERS OR DETOURS. ALL SIGNING SHALL BE APPROVED BY THE ENGINEER BEFORE WORK CAN BE STARTED BY THE CONTRACTOR.
8. IF THE CONTRACTOR DESIRES TO DEVIATE FROM THE TRAFFIC CONTROL SCHEME AND CONSTRUCTION SCHEDULE OUTLINED IN THESE PLANS AND THIS PROPOSAL, HE SHALL PREPARE AN ALTERNATE PLAN AND PRESENT IT IN WRITING TO THE ENGINEER. THIS ALTERNATE PLAN CAN BE USED ONLY AFTER REVIEW AND APPROVAL OF THE DIVISIONS OF TRAFFIC, DESIGN AND CONSTRUCTION, AND THE FEDERAL HIGHWAY ADMINISTRATION, WHERE APPLICABLE.
9. IF TRAFFIC SHOULD BE STOPPED DUE TO CONSTRUCTION OPERATIONS AND AN EMERGENCY VEHICLE ON AN OFFICIAL EMERGENCY RUN ARRIVES AT THE SCENE, THE CONTRACTOR SHALL MAKE THE PROVISIONS FOR THE PASSAGE OF THAT VEHICLE AS QUICKLY AS POSSIBLE.
10. ALL SIGNS NECESSARY FOR A MARKED DETOUR WILL BE PROVIDED BY THE CONTRACTOR AS REQUIRED BY STANDARD DRAWINGS AND THE MUTCD. SIGNS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR AS PART OF THE LUMP SUM BID PRICE FOR "MAINTAIN AND CONTROL TRAFFIC". THIS QUANTITY SHALL INCLUDE SIGN MOUNTING HARDWARE AND POSTS.

PAVEMENT DROP-OFF

A PAVEMENT EDGE THAT TRAFFIC IS NOT EXPECTED TO CROSS, EXCEPT ACCIDENTALLY, SHOULD BE TREATED AS FOLLOWS:

- \* LESS THAN TWO INCHES - NO PROTECTION REQUIRED, WARNING SIGNS SHOULD BE PLACED IN ADVANCE AND THROUGHOUT THE DROP-OFF AREA.
- \* TWO TO FOUR INCHES - PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES EVERY 100 FEET ON TANGENT SECTIONS FOR SPEEDS OF 50 MPH OR GREATER. CONES MAY BE USED IN PLACE OF PLASTIC DRUMS, PANELS AND BARRICADES DURING DAYLIGHT HOURS. FOR TANGENT SECTIONS WITH SPEEDS LESS THAN 50 MPH AND FOR CURVES, DEVICES SHOULD BE PLACED EVERY 50 FEET. SPACING OF DEVICES ON TAPERED SECTIONS SHOULD BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
- \* GREATER THAN FOUR INCHES - POSITIVE SEPARATION OR WEDGE WITH 3:1 OR FLATTER SLOPE NEEDED. IF THERE IS FIVE FEET OR MORE DISTANCE BETWEEN THE EDGE OF THE PAVEMENT AND THE DROP-OFF, THEN DRUMS, PANEL, OR BARRICADES MAY BE USED. IF THE DROP-OFF IS GREATER THAN 12 INCHES, POSITIVE SEPARATION IS STRONGLY ENCOURAGED. IF CONCRETE BARRIERS ARE USED, SPECIAL REFLECTIVE DEVICES OR STEADY BURN LIGHTS SHOULD BE USED FOR OVERNIGHT INSTALLATIONS.

FOR TEMPORARY CONDITIONS, DROP-OFFS GREATER THAN FOUR INCHES MAY BE PROTECTED WITH PLASTIC DRUMS, VERTICAL PANELS OR BARRICADES FOR SHORT DISTANCES DURING DAYLIGHT HOURS WHILE WORK IS BEING DONE IN THE DROP-OFF AREA.

LESSER TREATMENTS THAN THOSE DESCRIBED ABOVE MAY BE CONSIDERED FOR LOW-VOLUME LOCAL STREETS.

PAYMENT WILL BE ALLOWED FOR DGA MATERIAL USED FOR WEDGING.

PHASING PLAN

PLASE 1

- CONSTRUCTION:  
CONSTRUCT PERMANENT ROAD GRADE, SLOPE PROTECTION, AND BRIDGE.
- TRAFFIC:  
UTILIZE THE PROPOSED DETOUR.

PLASE 2

- CONSTRUCTION:  
FINISH CONSTRUCTION. STABILIZE TEMPORARILY DISTURBED AREA AND REPAIR ANY DAMAGE TO PRIVATE PROPERTY.
- TRAFFIC:  
OPEN E MIDLAND TRAIL AND NEW BRIDGE TO TRAFFIC.



EROSION CONTROL NOTES

ALL SILT CONTROL DEVICES SHALL BE SIZED TO RETAIN A VOLUME OF 3,600 CUBIC FEET PER DISTURBED CONTRIBUTING ACRE.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED GROUND DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL COMPUTE THE VOLUME NECESSARY TO CONTROL SEDIMENT DURING EACH PHASE OF CONSTRUCTION. AS WORK PROCEEDS, SILT TRAPS MAY BE ADDED OR REMOVED IN ORDER TO ACHIEVE THE BEST MANAGEMENT PLAN. THE REQUIRED VOLUME AT EACH ADDED SILT TRAP SHALL BE COMPUTED AS UP GRADIENT CONTRIBUTING AREAS ARE DISTURBED OR ARE STABILIZED TO THE SATISFACTION OF THE ENGINEER. THE REQUIRED VOLUME CALCULATION FOR EACH SILT TRAP SHALL BE DETERMINED BY THE CONTRACTOR AND VERIFIED BY THE ENGINEER. THE REQUIRED VOLUME AT EACH SILT TRAP MAY BE REDUCED BY THE FOLLOWING AMOUNTS:

- UP GRADIENT AREAS NOT DISTURBED (ACRES).
- UP GRADIENT AREAS THAT HAVE BEEN RECLAIMED AND PROTECTED BY EROSION CONTROL BLANKET OR OTHER GROUND PROTECTION MATERIAL SUCH AS TEMPORARY MULCH.(ACRES).
- THE USE OF TEMPORARY MULCH IS ENCOURAGED.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT FENCE (ACRES). AREAS PROTECTED BY SILT FENCE SHALL BE COMPUTED AT A MAXIMUM RATE OF 100 SQUARE FOOT PER LINEAR FOOT OF SILT FENCE.
- UP GRADIENT AREAS THAT HAVE BEEN PROTECTED BY SILT TRAPS (ACRES).

THE EROSION CONTROL PLAN SHALL BE ANNOTATED AS THE WORK PROCEEDS BY THE CONTRACTOR TO DETAIL THE SELECTION OF EACH EROSION CONTROL DEVICE USED AND THE VOLUME PROVIDED BY EACH SILT TRAP IN ACCORDANCE WITH THE DOCUMENTATION PROCEDURES ESTABLISHED BY THE DIVISION OF CONSTRUCTION.

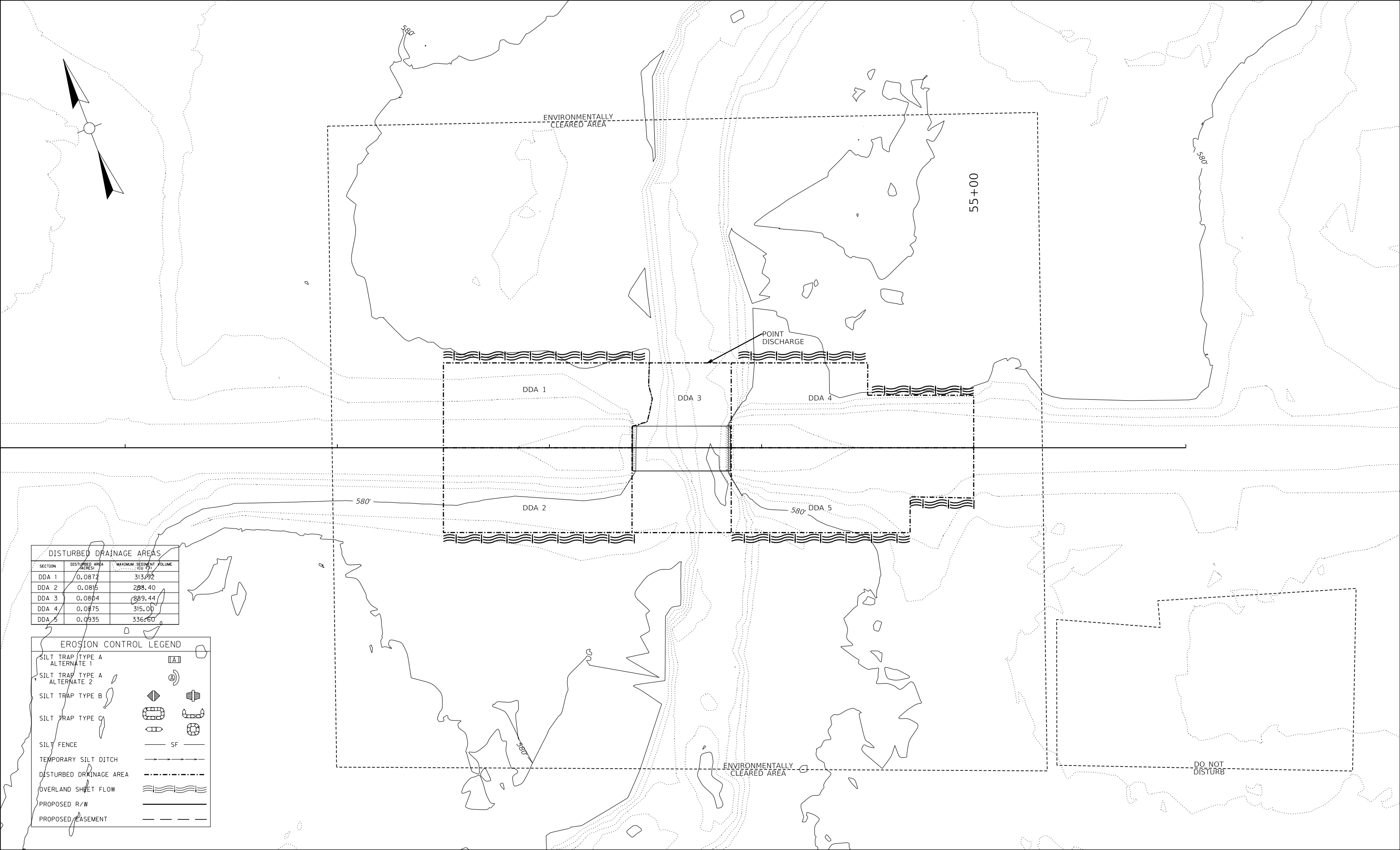
IF A SILT BASIN IS NOT USED THEN ONE SILT TRAP TYPE A, ALTERNATE NUMBER 2 OR SILT TRAP TYPE B SHALL ALWAYS BE PLACED AT THE MOST REMOTE DOWNSTREAM COLLECTION POINT PRIOR TO DISCHARGING INTO A BLUE LINE STREAM OR ONTO AN ADJACENT PROPERTY OWNER. WHERE OVERLAND FLOW EXIST, A SILT FENCE OR OTHER FILTER DEVICES MAY BE USED OR THE OVERLAND FLOW MAY BE DIVERTED TO ONE OF THE AFOREMENTED SILT BASIN OR TRAPS.

THE EROSION CONTROL PLANS DO NOT CONSTITUTE A BMP BY THEMSELVES. THEY PROVIDE A STARTING POINT FOR THE CONTRACTOR AND SECTION ENGINEER TO DEVELOP THE BMP ACCORDING TO SECTION 213.03.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE SUPPLEMENTAL SPECS EFFECTIVE WITH THE OCTOBER, 2004 LETTING.

EROSION CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONING PRIOR TO ANY EXCAVATION OR DISTURBANCE WITHIN A DRAINAGE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO CLEAN OUT (REMOVE SEDIMENT FROM) SILT TRAPS AND SILT FENCES WHENEVER THEY BECOME ONE- HALF FULL AND PROPERLY DISPOSE OF THE MATERIAL AT SITES APPROVED BY THE SECTION ENGINEER.

EROSION CONTROL MEASURES EMPLOYED BY THE CONTRACTOR WILL BE UNIQUE TO THE PROJECT AND WORK CONDITIONS AND SHALL BE APPROVED BY THE SECTION ENGINEER. THE DEVELOPMENT AND UTILIZATION OF THESE MEASURES WILL BE RECORDED AS PART OF THE BMP, KEPT ON SITE, AND AVAILABLE FOR PUBLIC INSPECTION.



DISTURBED DRAINAGE AREAS		
SECTION	DISTURBED AREA (ACRES)	MAXIMUM SEDIMENT VOLUME (CU FT)
DDA 1	0.0872	313.92
DDA 2	0.0815	293.40
DDA 3	0.0804	289.44
DDA 4	0.0875	315.00
DDA 5	0.0935	336.60

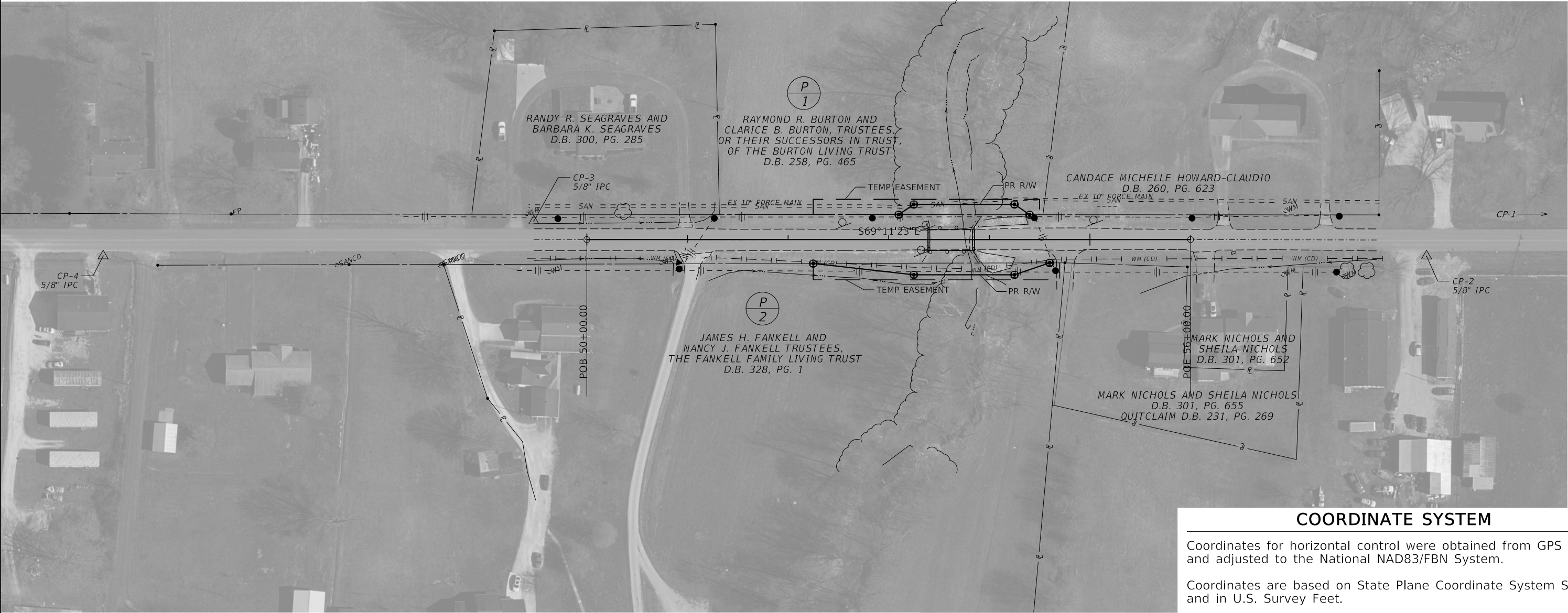
EROSION CONTROL LEGEND	
SILT TRAP TYPE A ALTERNATE 1	
SILT TRAP TYPE A ALTERNATE 2	
SILT TRAP TYPE B	
SILT TRAP TYPE C	
SILT FENCE	SF
TEMPORARY SILT DITCH	
DISTURBED DRAINAGE AREA	
OVERLAND SHEET FLOW	
PROPOSED R/W	
PROPOSED EASEMENT	



RIGHT OF WAY MONUMENT POINTS						
ALIGNMENTS	STATION	OFFSET	TYPE	DESCRIPTION	STATE PLANE COORDINATES	
					NORTHING (Y)	EASTING (X)
E MIDLAND TRAIL	52+25.00	23.78	TY 1	ROW MON	4022298.0843	5736604.3929
E MIDLAND TRAIL	53+10.00	-24.85	TY 1	ROW MON	4022313.3477	5736701.1265
E MIDLAND TRAIL	53+25.00	35.00	TY 1	ROW MON	4022252.0696	5736693.8833
E MIDLAND TRAIL	53+25.00	-35.00	TY 1	ROW MON	4022317.5030	5736718.7524
E MIDLAND TRAIL	54+25.00	35.00	TY 1	ROW MON	4022216.5422	5736787.3595
E MIDLAND TRAIL	54+25.00	-35.00	TY 1	ROW MON	4022281.9756	5736812.2287
E MIDLAND TRAIL	54+40.00	-24.77	TY 1	ROW MON	4022267.0843	5736822.6125
E MIDLAND TRAIL	54+60.00	23.15	TY 1	ROW MON	4022215.1877	5736824.2827

COORDINATE CONTROL POINTS						
CP NUMBER	TYPE	NORTHING (Y)	EASTING (X)	ELEVATION (Z)	STATION	OFFSET
1	5/8" IPC	4021912.286	5737609.387	583.77	NA	NA
2	5/8" IPC	4022088.378	5737176.771	585.81	NA	NA
3	5/8" IPC	4022436.175	5736359.836	585.64	NA	NA
4	5/8" IPC	4022555.803	5735947.406	585.42	NA	NA

E MIDLAND TRAIL (KY 3297)			
POINT	STATION	NORTHING (Y)	EASTING (X)
START	50+00.00	4022400.25	5736402.52
END	56+00.00	4022187.09	5736963.38



COORDINATE SYSTEM

Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FBN System.

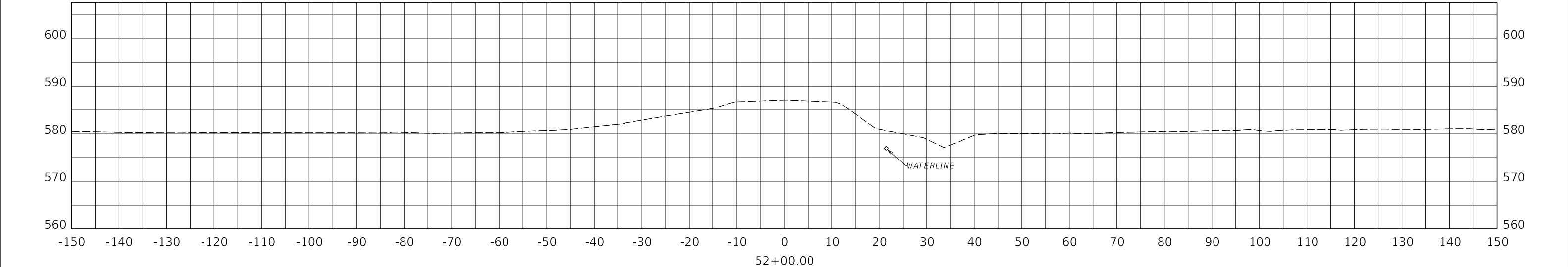
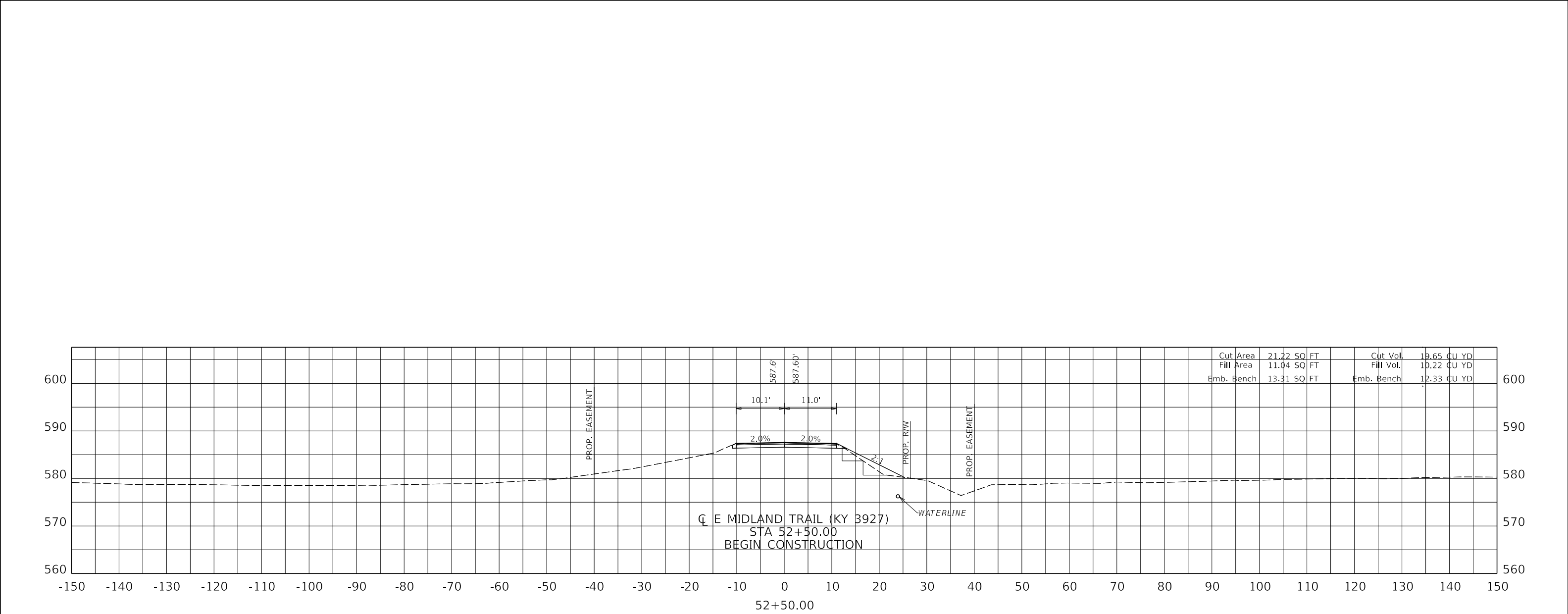
Coordinates are based on State Plane Coordinate System Single Zone and in U.S. Survey Feet.

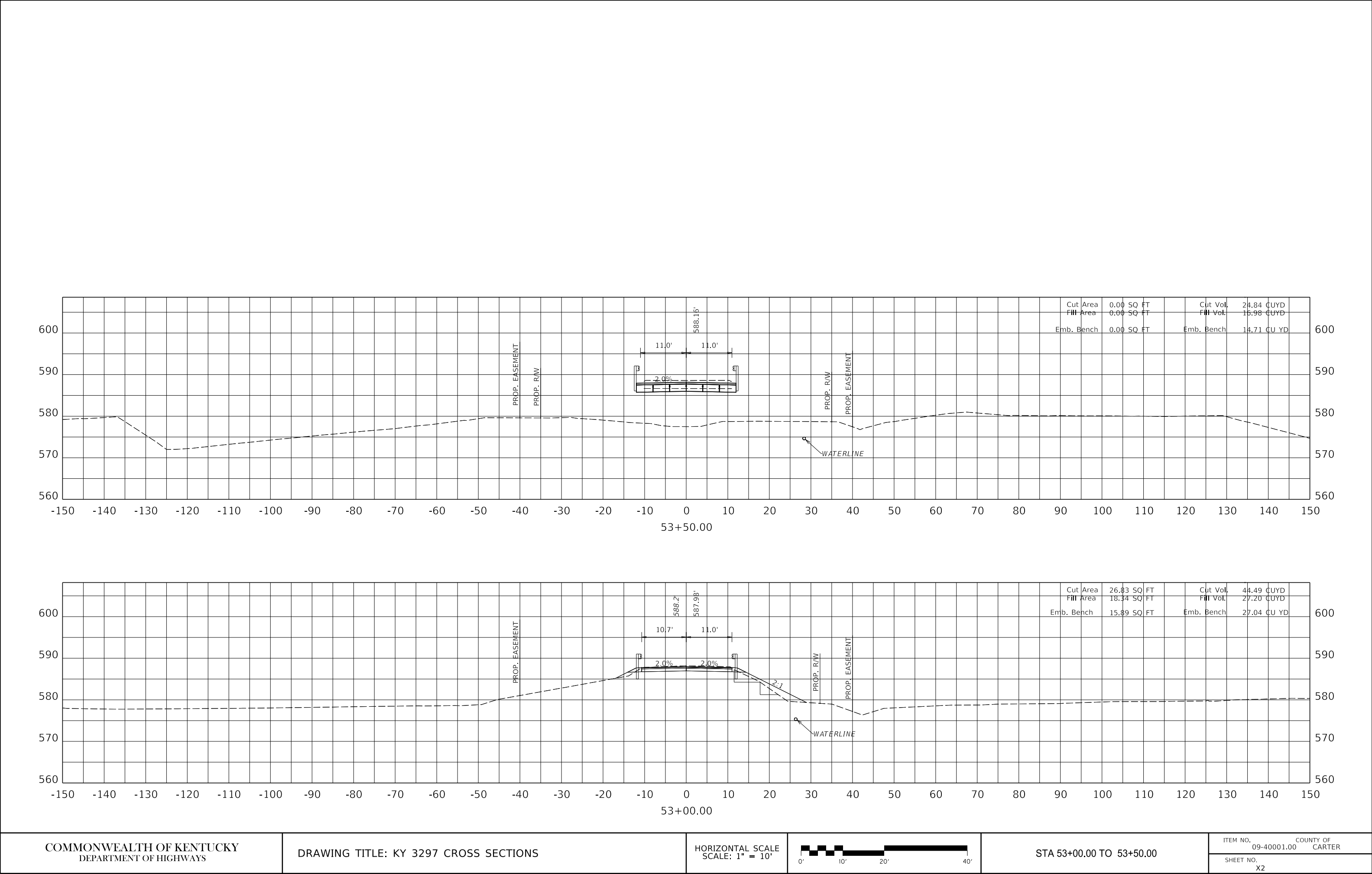
BASIS OF ELEVATIONS

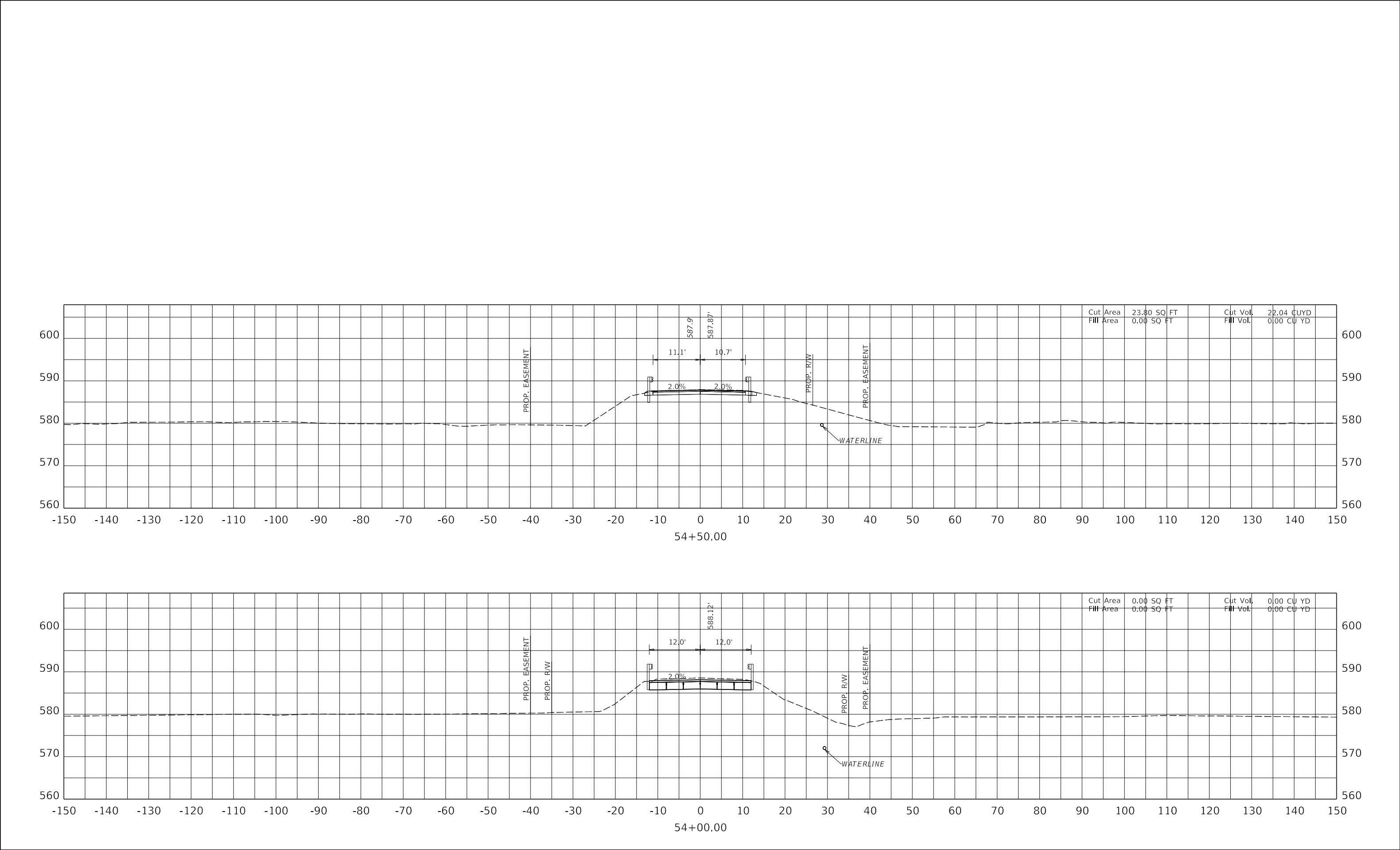
Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Geoid model used was Geoid18.

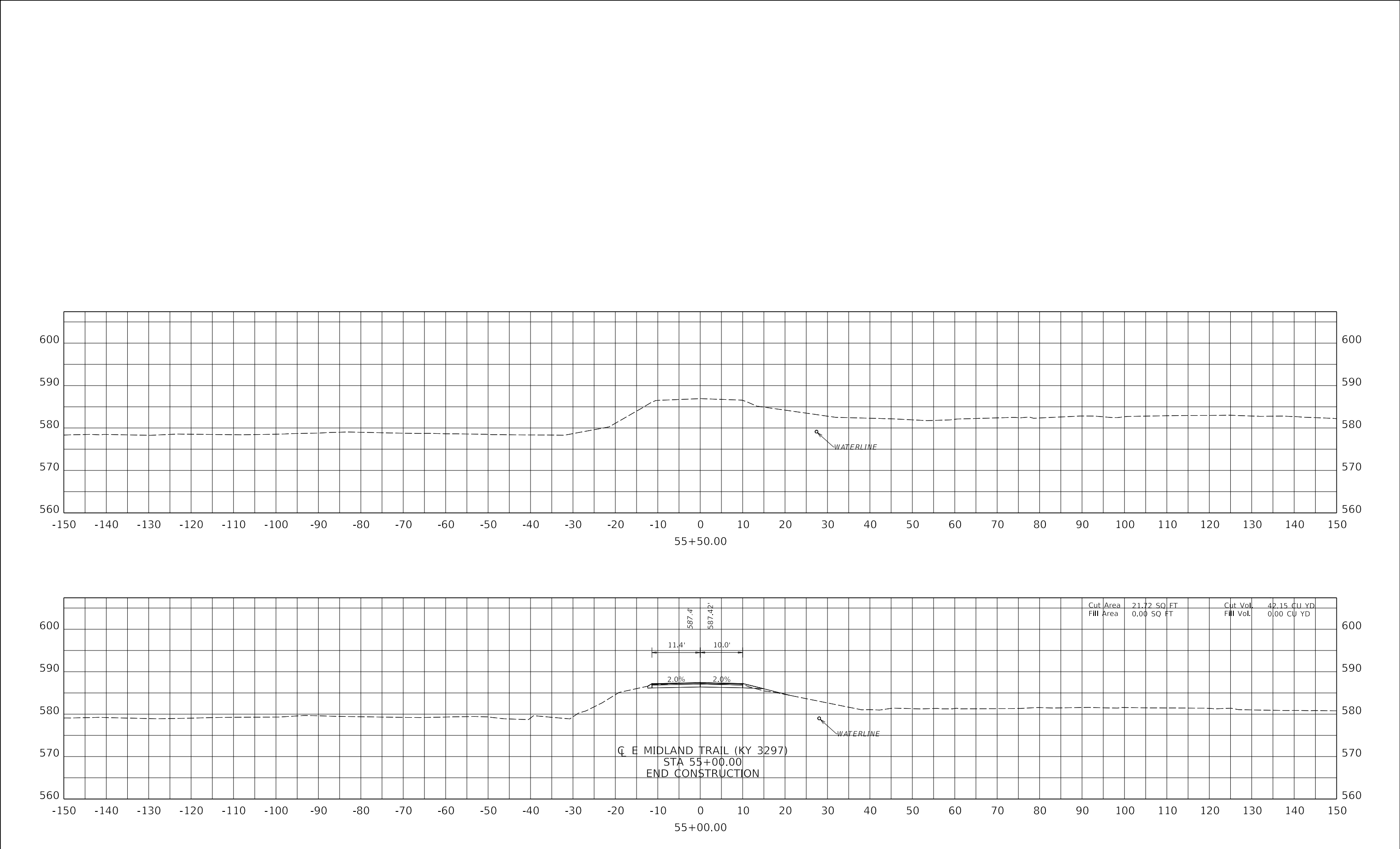












TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS  
CARTER COUNTY  
EAST MIDLAND TRAIL  
KY 3297 OVER UPPER STINSON CREEK  
STA. 53+75.00

[illegible][illegible]

# GENERAL NOTES

**SPECIFICATIONS:** All references to the Specifications are to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction with current Supplemental Specifications. All references to the AASHTO Specifications are to the current edition of the AASHTO LRFD Bridge Design Specs, with Interims.

**DESIGN LOAD:** This bridge is designed for a KYHL-93 live load. The KYHL-93 live load is arrived at by increasing the standard HL-93 truck and lane loads as specified in the AASHTO Specifications by 25%.

**FUTURE WEARING SURFACE:** This Structure is designed for a 15 PSF future wearing surface load.

**DESIGN STRESSES:**      Concrete Class "A" ~ f'c = 3500 psi  
                                 Concrete Class "AA" ~ f'c = 4000 psi  
                                 Steel Reinforcement ~ Fy = 60,000 psi  
                                 Steel Piling ~Fy = 50,000 psi

**DESIGN METHOD:** All reinforced concrete members are designed by the load and resistance factor method as specified in the current AASHTO Specifications.

**REINFORCEMENT:** Dimensions shown from the face of concrete to bars are to center of bars unless otherwise shown. Spacing of bars is from center to center of bars. Clear distance to face of concrete is 2", unless otherwise noted. Any reinforcing bars designated by suffix (e) in the plans shall be epoxy coated in accordance with section 811.10 of the Standard Specifications. Any reinforcing bars designated by suffix (s) in a bill of reinforcement shall be considered a stirrup for purposes of bend diameters.

**BEVELED EDGES:** Bevel all exposed edges 3/4", unless otherwise noted.

**COMPLETION OF THE STRUCTURE:** The Contractor is required to complete the structure in accordance with the plans and specifications. Material, labor or construction operations, not otherwise specified, are to be included in the bid item most appropriate to the work involved. This may include cofferdams, shoring, excavations, backfilling, removal of all or parts of existing structures, phase construction, incidental materials, labor or anything else required to complete the structure.

**SHOP DRAWINGS:** Submit shop drawings that are required by the plans and specifications directly to the Division of Structural Design. If any changes in the design plans are proposed by a fabricator or supplier, submit those changes to the Department through the Contractor.

**FOUNDATION DATA:** See Foundation Layout Sheet.

**DIMENSIONS:** Dimensions are for a normal temperature of 60 degrees Fahrenheit. Layout dimensions are horizontal dimensions.

**SUPERSTRUCTURE SLAB:** Ensure the entire superstructure slab is poured continuously, out to out, before allowing any concrete to set.

**SLOPE PROTECTION:** Slope protection will be required at the bridge meeting the requirements of Sections 703 & 805 of the Standard Specifications for Road and Bridge Construction, current edition. Place a Class I Geotextile Fabric, in accordance with Sections 214 & 843 of the Standard Specifications for Road and Bridge Construction, current edition, between the embankment and the slope protection.

**MASONRY COATING:** Contrary to the Specifications, do not apply Masonry Coating. Apply Concrete Sealing in place of Masonry Coating as noted in CONCRETE SEALER note.

**CONCRETE SEALER:** All areas detailed in the specifications as requiring masonry coating shall be sealed in accordance with the special note for concrete sealing. The superstructure deck, barriers, and overhangs shall also be sealed as shown herein these plans. Concrete surfaces (except the deck) shall receive the ordinary surface finish as described in section 601.03.18(A) prior to being sealed.

**FOUNDATION PREPARATION:** Include all costs for required excavation, backfilling, and material required to backfill to the bottom of the roadway subgrade in accordance with the specifications in the price bid for Foundation Preparation.

**PILE POINTS:** Provide pile points for all point bearing piles. Ensure pile points are in accordance with section 604 of the specifications and of the type as shown on the foundation layout sheet.

The following abbreviations may have been used in the preparation of these plans:

bet.	Between	Tan	Tangent
b. f.	Back Face	Thru	Through
B0F	Bottom of Footing	T0F	Top of Footing
B0S	Bottom of Slab	T0S	Top of Slab
bot.	Bottom	Tot.	Total
Brg.	Bearing	Typ.	Typical
C to C	Center to Center	Vert.	Vertical
c. e.	Current Edition	W. P.	Working Point
C. Y.	Cubic Yard	Yd.	Yard
Chd.	Chord		
CL	Center Line		
Clr.	Clear		
Conc.	Concrete		
Cu.	Cubic		
Dwg.	Drawing		
e. f.	Each Face		
El.	Elevation		
eq.	Equal		
Est.	Estimate		
Ext.	Exterior		
F to F	Face to Face		
f. f.	Front Face		
f. s.	Far Side		
fr.	Front		
ft.	Feet		
I. D.	Inside Diameter		
in.	Inch		
Int.	Interior		
L	Left		
LBS	Low Bridge Seat		
LBS.	Pounds		
M	Meter		
MPH	Miles per Hour		
n. s.	Near Side		
O. D.	Outside Diameter		
Opp.	Opposite		
PC	Point of Curve		
Perp.	Perpendicular		
PI	Point of Intersection		
PPC	Precast Prestressed Concrete		
PPCDU	Precast Prestressed Concrete Deck Unit		
PSI	Pounds per Square Inch		
PT	Point of Tangent		
R	Radius		
R	Right		
RCBC	Reinforced Concrete Box Culvert		
RCDG	Reinforced Concrete Deck Girder		
Req' d.	Required		
RR	Railroad		
Shld	Shoulder		
spa.	Spaces		
Sta.	Station		
Std.	Standard		
Str.	Straight		



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



USER: Joseph.VanZee

REVISION	DATE

DATE PLOTTED: 25-MAY-2023

PREPARED BY  
**Division of  
Structural Design**

DATE: March 2023	CHECKED BY
DESIGNED BY: J. Van Zee	N. Cordtz
DETAILED BY: B.Miller	J. Van Zee

FILE NAME: J:\District09\9-40001\28741.dgn

**GENERAL NOTES**

CROSSING  
Upper Stinson Creek

ROUTE  
KY 3297

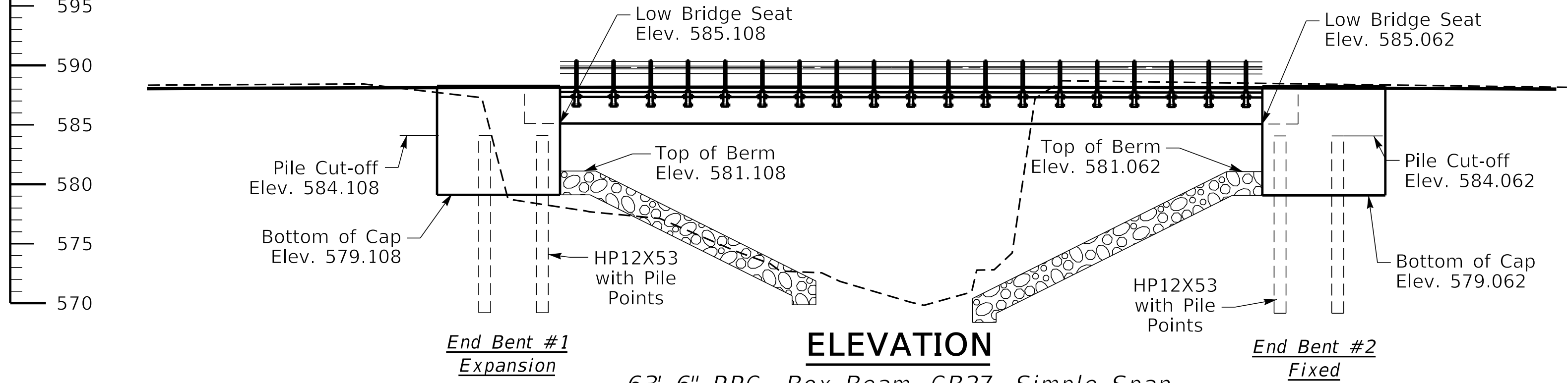
ITEM NO.  
**9-40001.00**  
SHEET NO.  
**52**

COUNTY OF  
**CARTER**  
DRAWING NUMBER  
**28741**

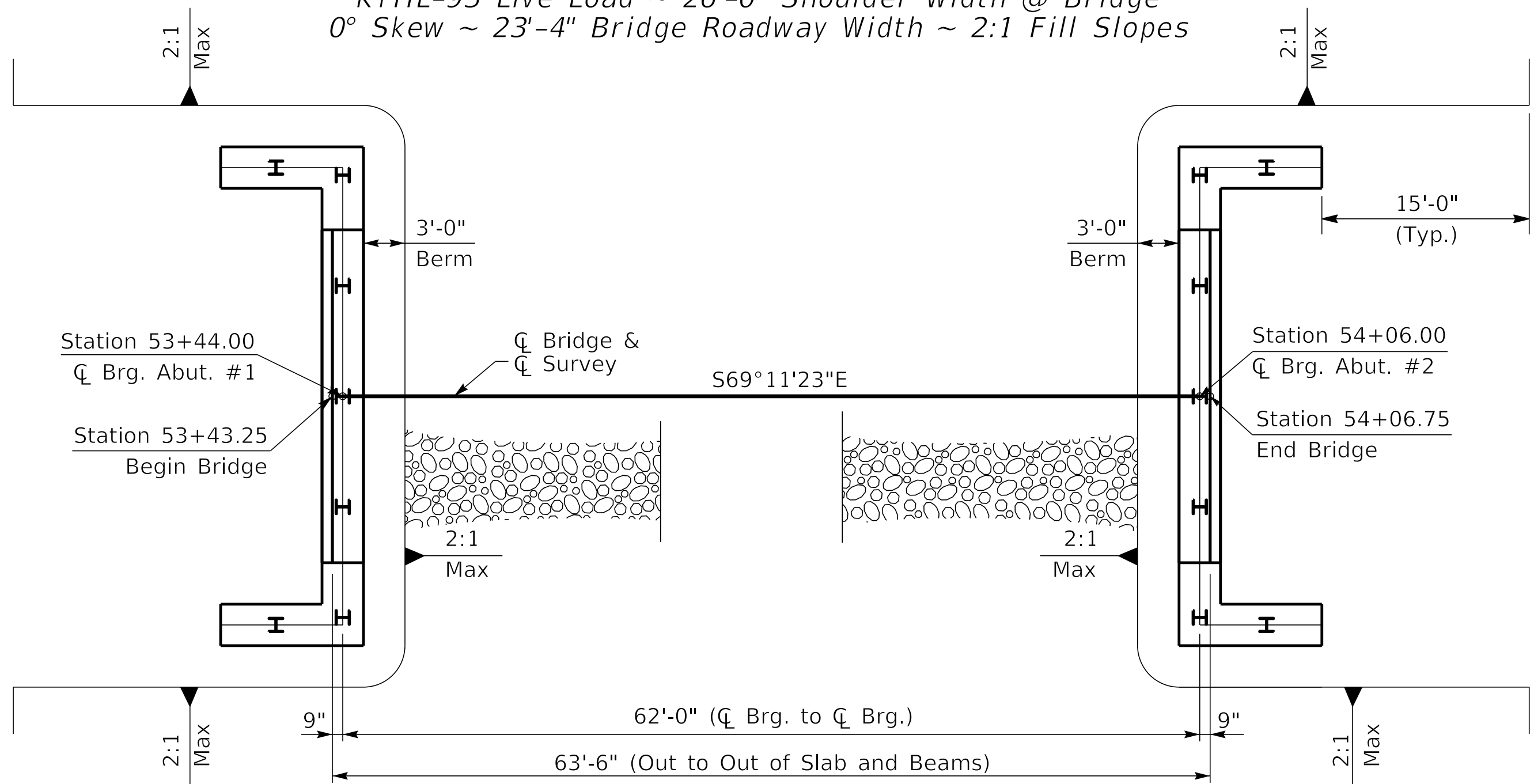
MicroStation v10.16.3.31

Grayson

US 60

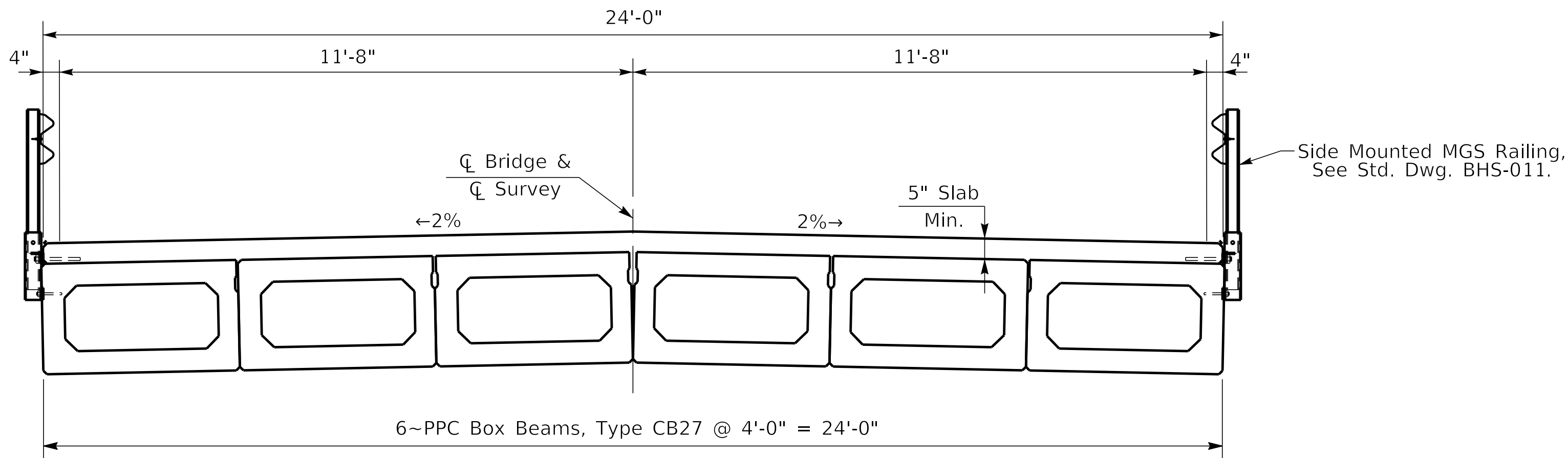


63'-6" PPC Box Beam, CB27, Simple Span  
KYHL-93 Live Load ~ 26'-0" Shoulder Width @ Bridge  
0° Skew ~ 23'-4" Bridge Roadway Width ~ 2:1 Fill Slopes



### PLAN

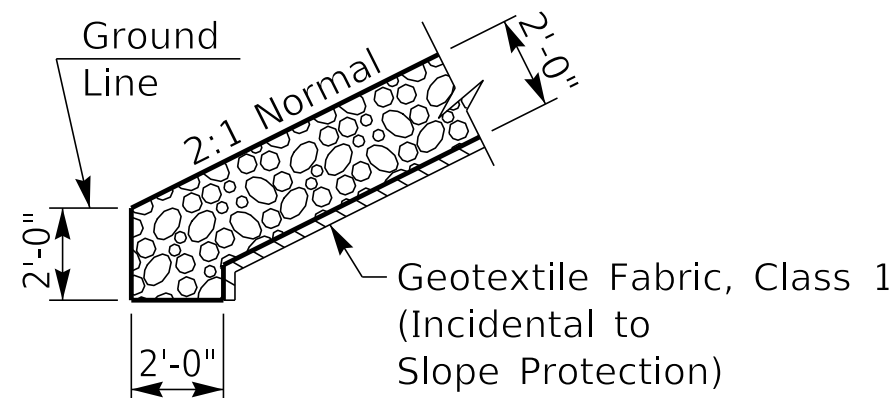
~Superstructure not shown~



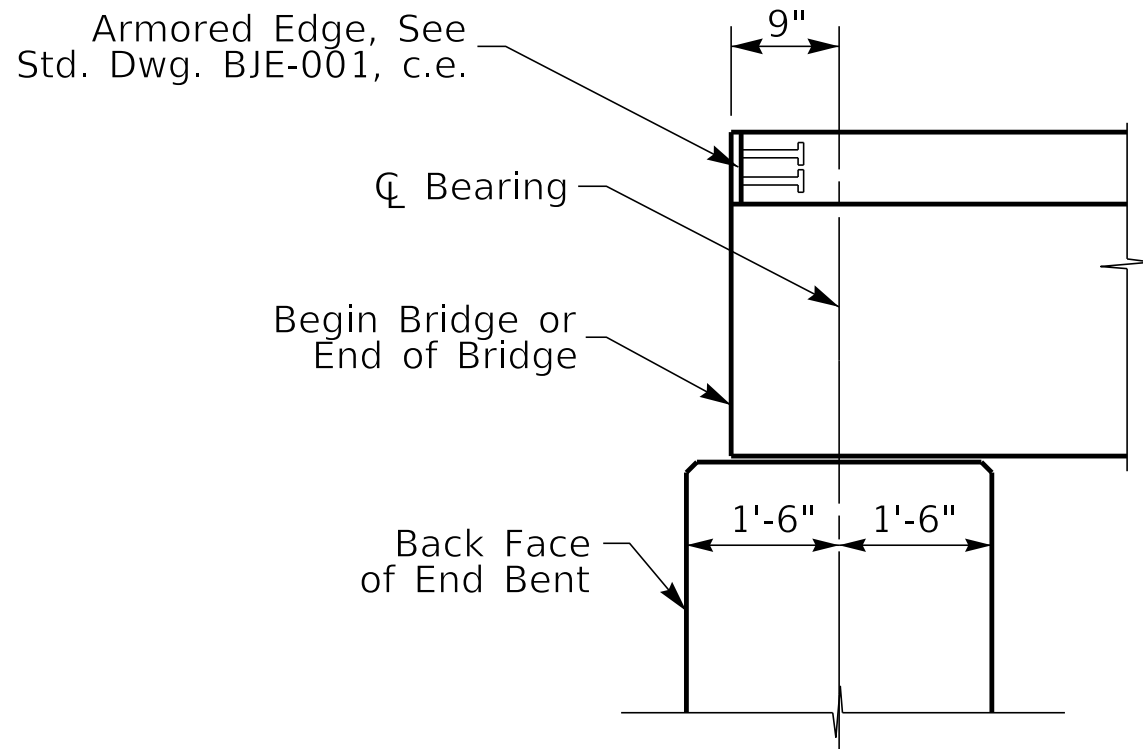
### TYPICAL SECTION

NOTE:  
Roadway guardrail is to attach to bridge  
guardrail to form a continuous unit.  
See Std. Dwg. BHS-011, c.e.

NOTE:  
For end bent backfill and method of construction  
see Special Provision 69. Include the cost of any  
required geotextile fabric in the unit price for Structure  
Granular Backfill.



### TOE OF SLOPE DETAIL



### END OF BEAM DETAIL

(Measured Along Centerline of Beam)



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



USER: Joseph.VanZee

REVISION

DATE

PREPARED BY  
**Division of  
Structural Design**

DATE: March 2023

DESIGNED BY: J. Van Zee

DETAILED BY: B.Miller

CHECKED BY

N. Cordtz

J. Van Zee

LAYOUT

CROSSING

Upper Stinson Creek

ROUTE

KY 3297

ITEM NO.

9-40001.00

SHEET NO.

53

COUNTY OF

CARTER

DRAWING NUMBER

28741

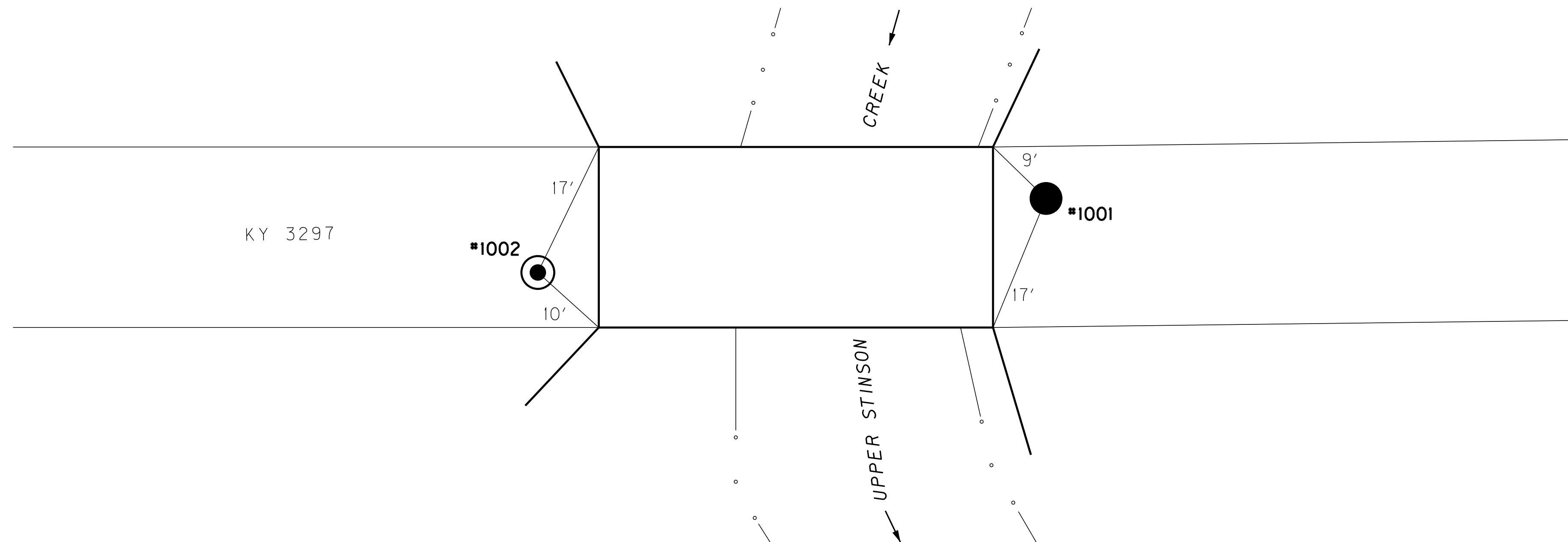
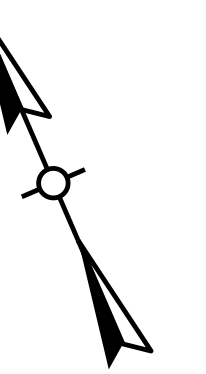
MicroStation v10.16.3.31

DATE PLOTTED: 25-MAY-2023

FILE NAME: J:\District09\9-40001\28741.dgn



Plan Scale 1" = 10'



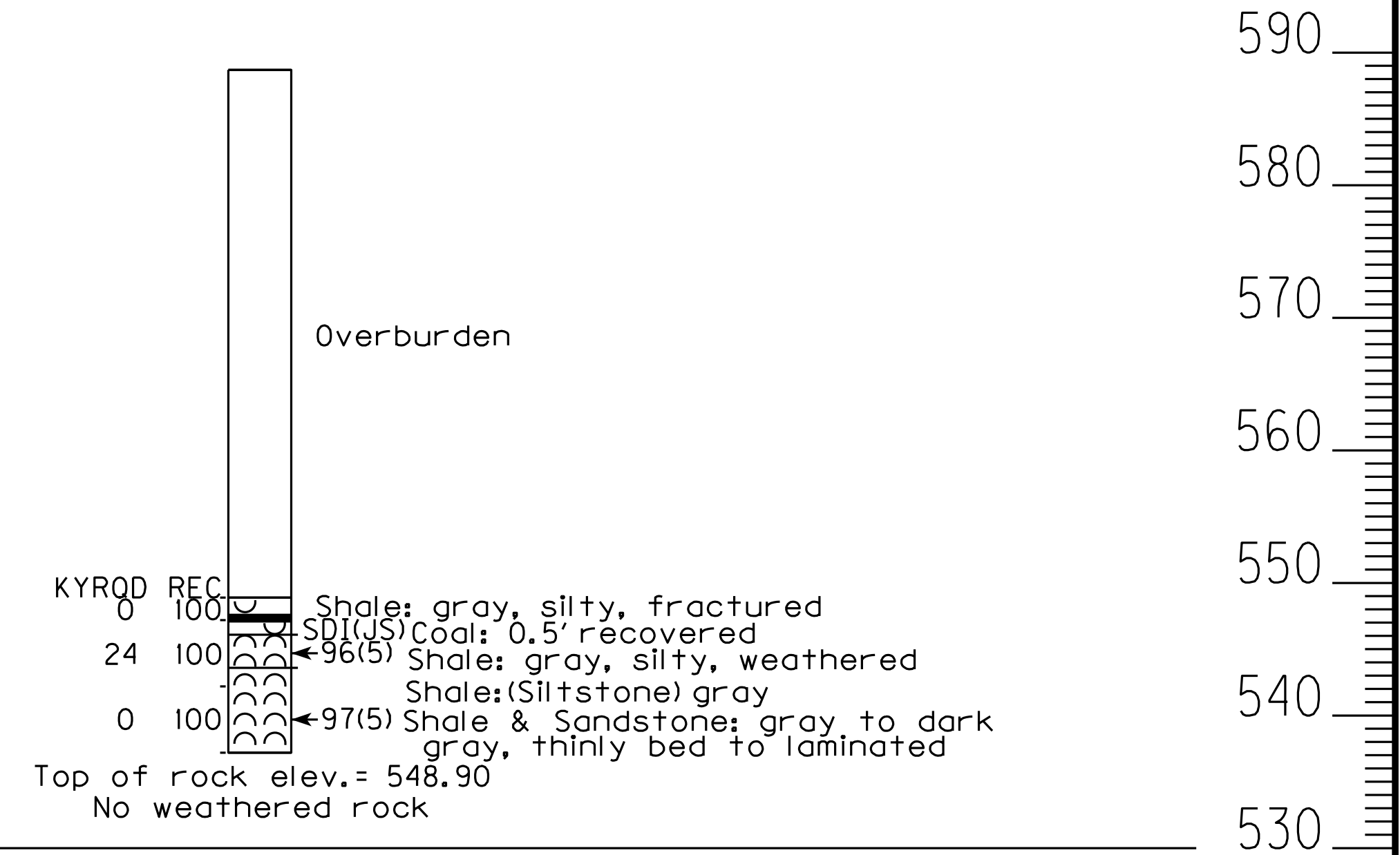
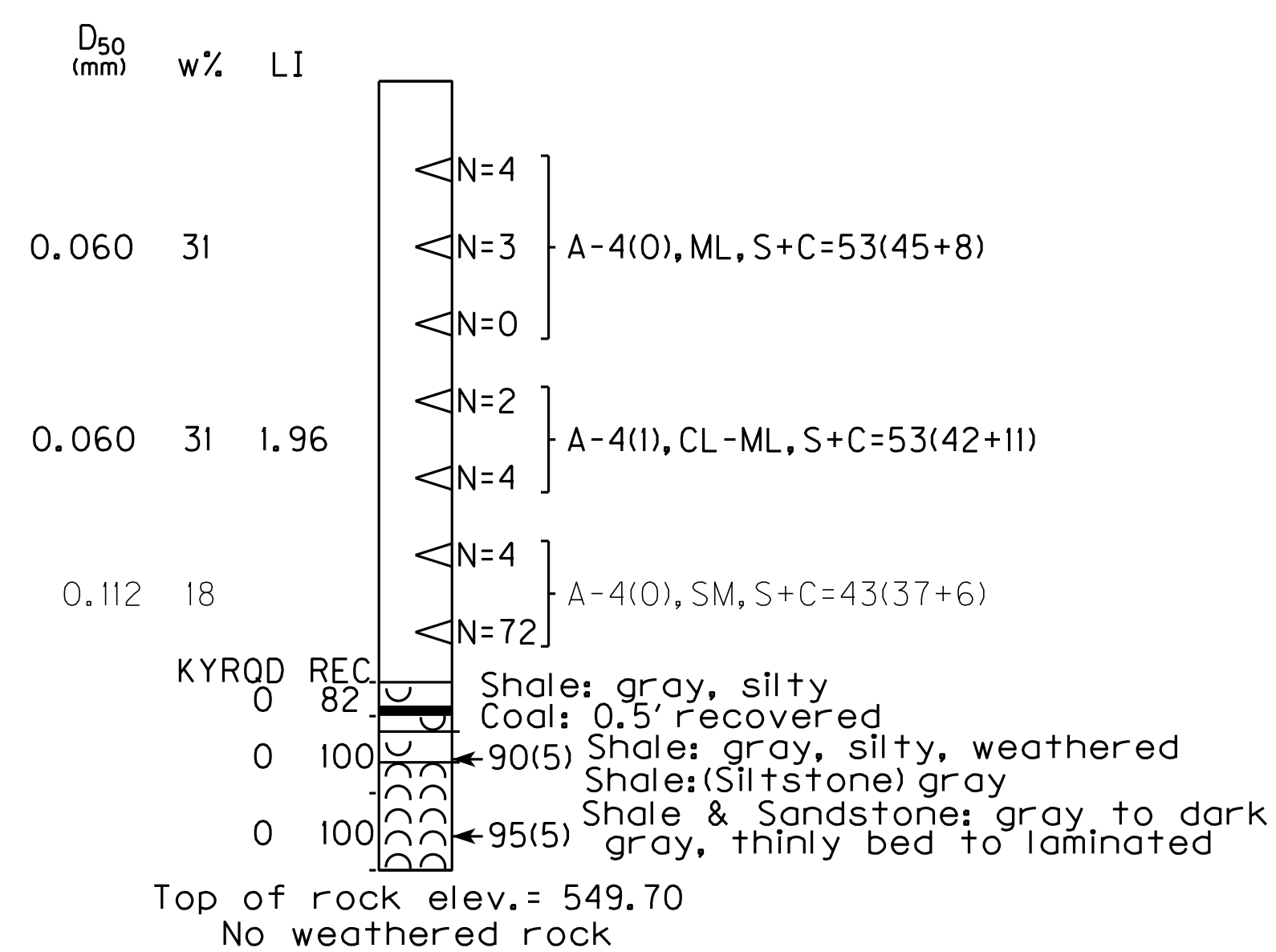
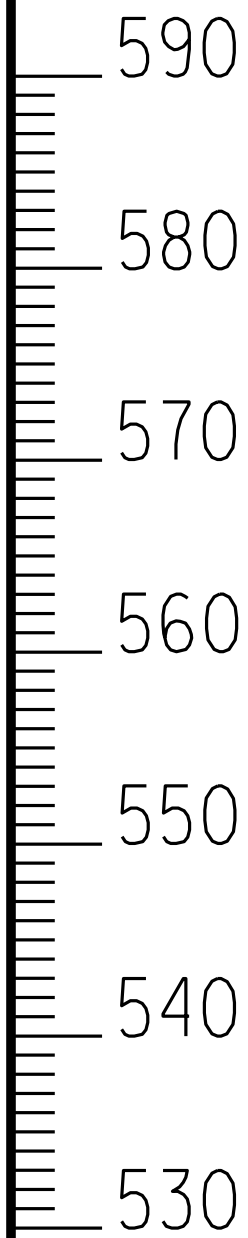
Profile Scale:  
Vertical 1" = 10'  
Horizontal not to scale

END BENT ONE

END BENT TWO

Hole No.	Station	Offset	Elev. (NAVD 88 datum)
----------	---------	--------	-----------------------------

1002  
38.335436,-82.906306  
588.70

$$\begin{array}{r} 1001 \\ 38.335478, -82.906536 \\ 588.70 \end{array}$$


The Presumptive Factored Bearing Resistance at the Service Limit State is  
16 ksf for Spread Footings on Competent Unweathered Bedrock



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



REVISION	DATE

PREPARED BY

**Division of Structural Design**

**Geotechnical Branch**

DATE: 28-JULY-2022
--------------------

DESIGNED BY:

DETAILED BY: E. BAILEY

CHECKED BY

R. McDONALD

SUBSURFACE DATA

CROSSING  
**Bridge over Upper Stinson Creek**

ROUTE  
**KY 3297**

ITEM NO.	
----------	--

SHEET NO.  
S4

COUNTY OF

**CARTER**  
DRAWING NUMBER  
**28741**

Definitions of Terms

PILE CUT-OFF ELEVATION: Elevation of the top of pile in the finished structure.

PILE LENGTH IN PLACE: Actual pile length below the Pile Cut-Off Elevation in the finished structure.

PILE TIP ELEVATION AS DRIVEN: Actual point of pile elevation in the finished structure.

DESIGN AXIAL LOAD: Load carried by each pile as estimated from structural design calculations for Factored LRFD Loadings.

CALCULATED FIELD BEARING: Contrary to Section 604.03.07 of the Standard Specifications, in place bearing values are not required for piles bearing on rock when driven to practical refusal.

Driving Criteria

DRIVING CRITERIA: Drive point bearing piles to practical refusal.

PRACTICAL REFUSAL: Drive point bearing piles to practical refusal. For this project minimum blow requirements are reached after total penetration becomes 1/2 inch or less for 10 consecutive blows, practical refusal is obtained after the pile is struck an additional 10 blows with total penetration of 1/2 inch or less. Advance the production piling to the driving resistances specified above and to depths determined by test pile(s) and subsurface data sheet(s). Immediately cease driving operations if the pile visibly yields or becomes damaged during driving. If hard driving is encountered because of dense strata or an obstruction, such as a boulder before the pile is advanced to the depth anticipated, the Engineer will determine if more blows than the average driving resistance specified for practical refusal is required to further advance the pile. Drive additional production and test piles if directed by the Engineer.

HAMMER CRITERIA: A hammer with a rated energy of between 28 and 45 kip-ft will be required to drive the H-piles to practical refusal without encountering excessive blow counts or damaging the pile. The contractor shall submit the proposed pile driving system to the Department for approval prior to the installation of the first pile. Approval of the pile driving system by the Engineer will be subject to satisfactory field performance of the pile driving procedures.

Field Data

For each pile, the Project Engineer shall record the following on this sheet: Pile Length in Place and Point of Pile Elevations as Driven.

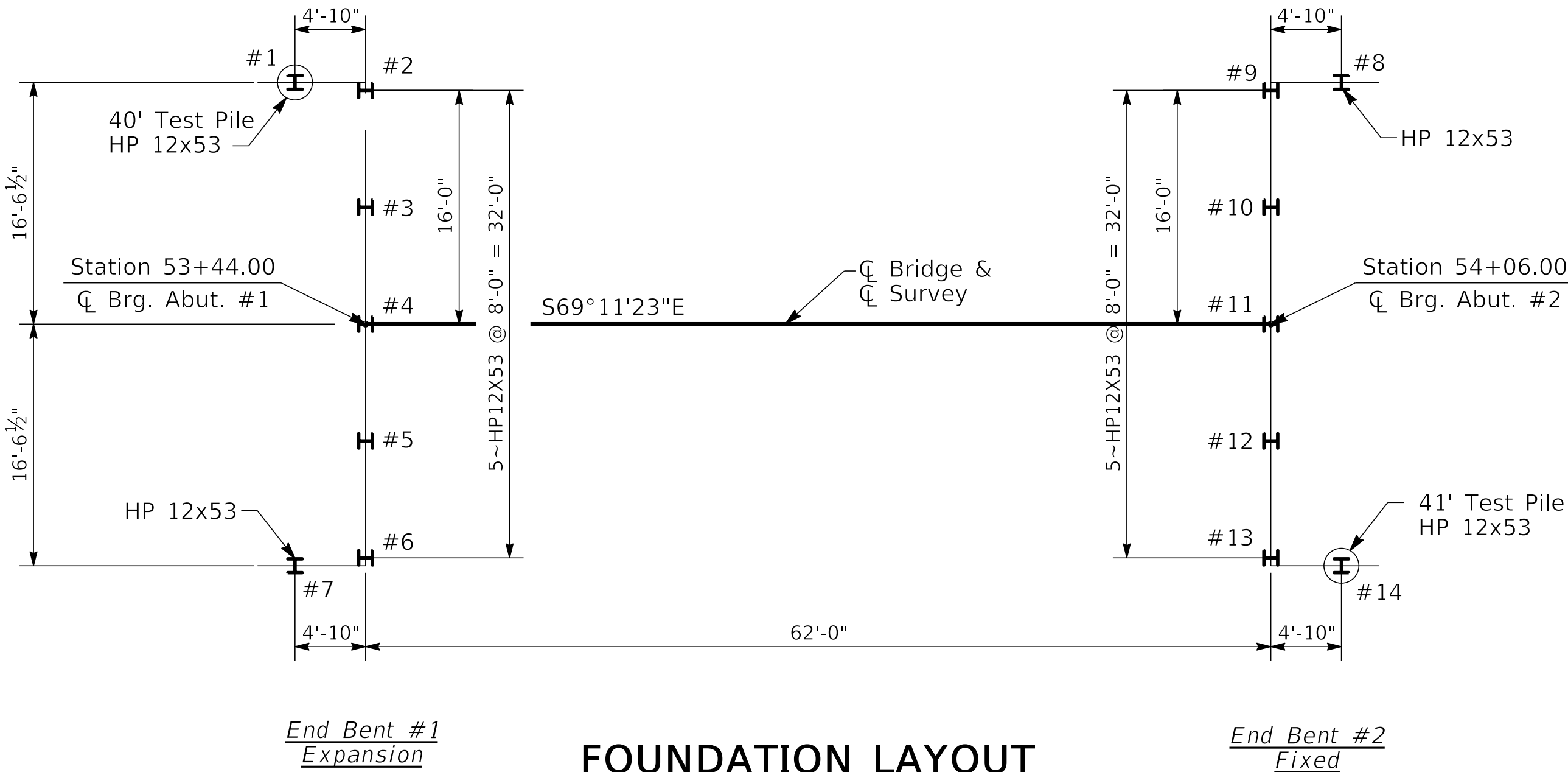
Submit this record to:

Kentucky Transportation Cabinet  
Division of Structural Design  
3rd. Floor East  
200 Mero Street  
Frankfort, KY 40622

This pile record does not replace other pile records the Project Engineer is required to keep and submit.

Use HP12X53 (50 ksi) piles.

Provide Pile Points capable of penetrating boulders and keying into sloping rock surfaces for all piles.



FOUNDATION LAYOUT

Note: Piles #1 and #7 may be battered slightly if necessary to miss existing substructure elements. If required submit proposal to Engineer for approval before driving.

Note:  
Cofferdams and/or dewatering methods may be required to facilitate foundation construction of pile caps. Temporary sheeting and/or shoring may be required for installation of pile caps. The contractor shall be responsible for the stability and safety of all excavations. All costs incidental to Foundation Preparation.

PILE RECORD FOR POINT BEARING PILES				
Pile No.	Pile Cut-off Elevation	Pile Length In Place	Point of Pile Elevation As Driven	Design Axial Load
	FEET	FEET	FEET	TONS
~End Bent #1~				
1	584.108			84
2	584.108			84
3	584.108			84
4	584.108			84
5	584.108			84
6	584.108			84
7	584.108			84
~End Bent #2~				
8	584.062			84
9	584.062			84
10	584.062			84
11	584.062			84
12	584.062			84
13	584.062			84
14	584.062			84



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



USER: Joseph.VanZee

REVISION	DATE

DATE PLOTTED: 25-MAY-2023

PREPARED BY  
**Division of  
Structural Design**

DATE: March 2023	CHECKED BY:
DESIGNED BY: J. Van Zee	N. Cordtz
DETAILED BY: B.Miller	J. Van Zee

FILE NAME: J:\District09\9-40001\28741.dgn

FOUNDATION LAYOUT

CROSSING  
Upper Stinson Creek

ROUTE  
KY 3297

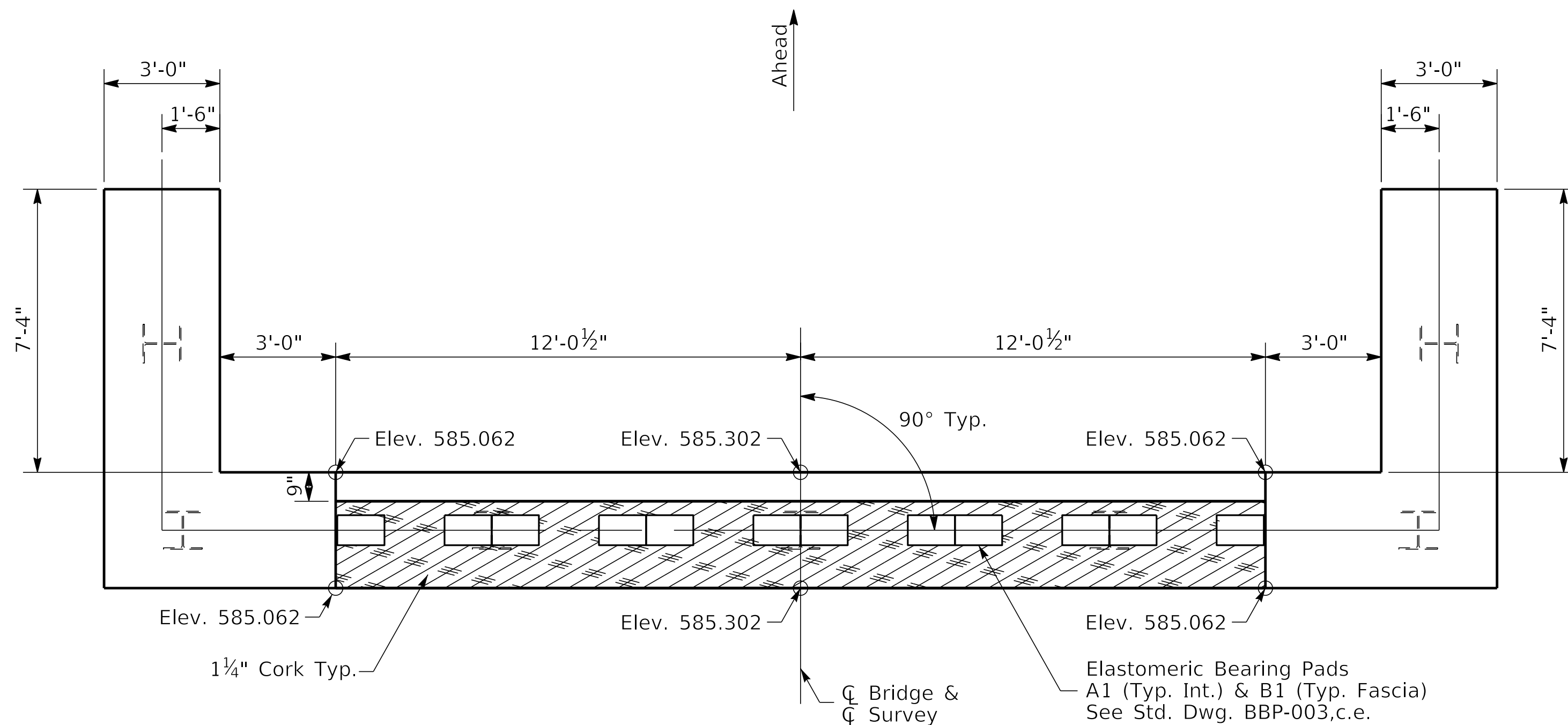
ITEM NO. 9-40001.00
SHEET NO. S5

COUNTY OF CARTER
DRAWING NUMBER 28741

MicroStation v10.16.3.11





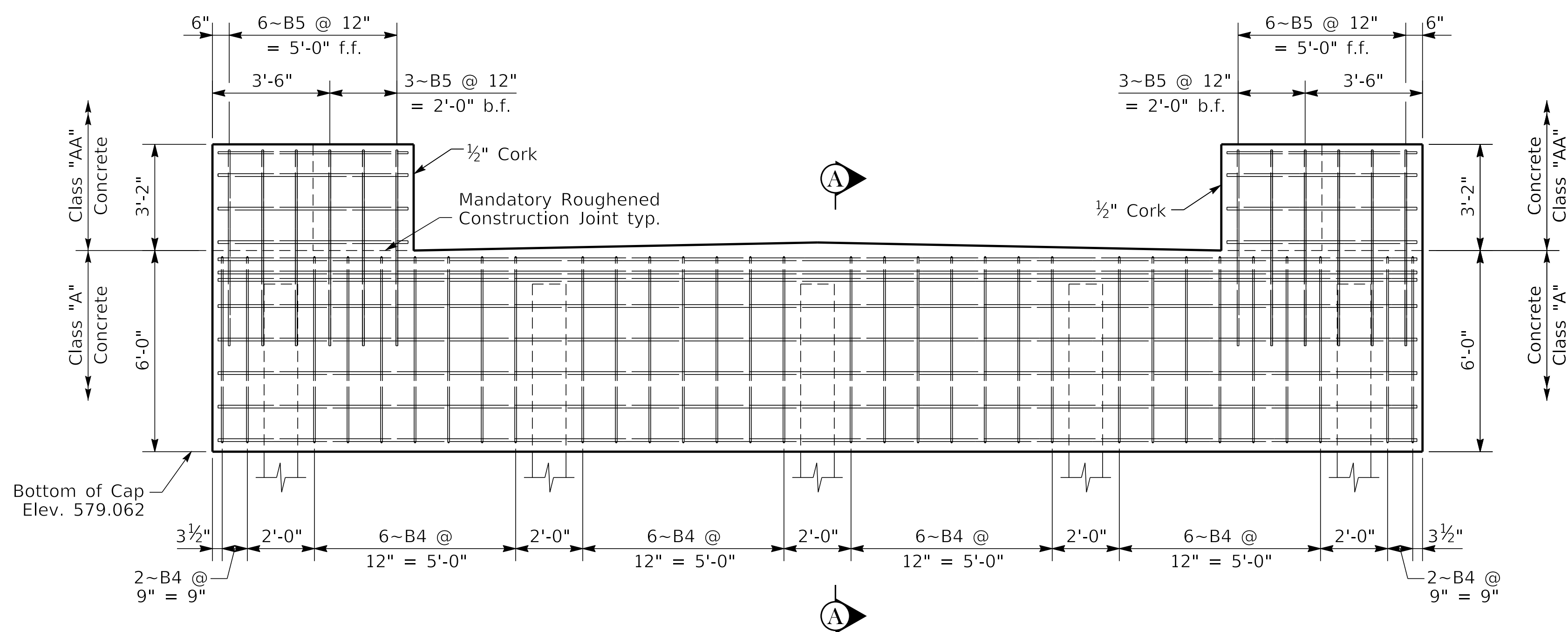


NOTE:  
For pile location see  
Foundation Layout Sheet.

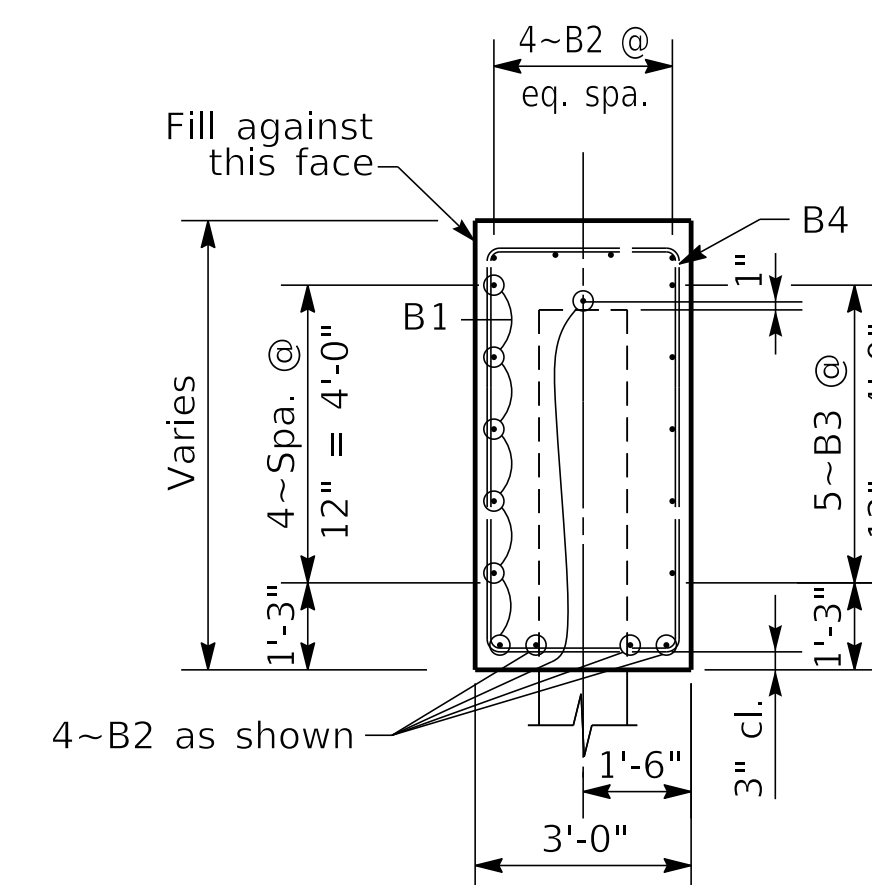
NOTE:  
Seat Elevations given  
at top of concrete.

Note: Place beams, tighten tension rod, and then pour wings against box beams.

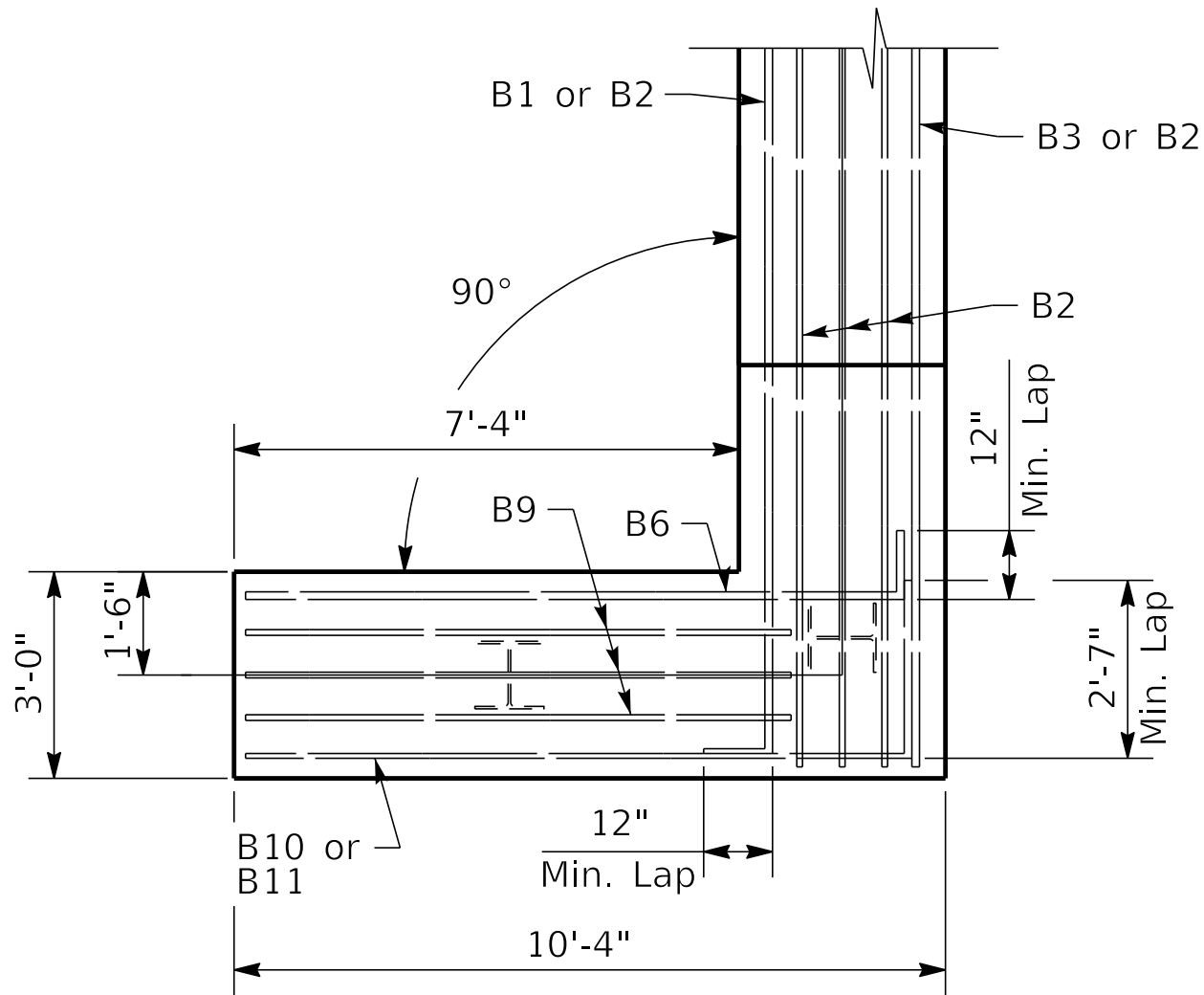
PLAN



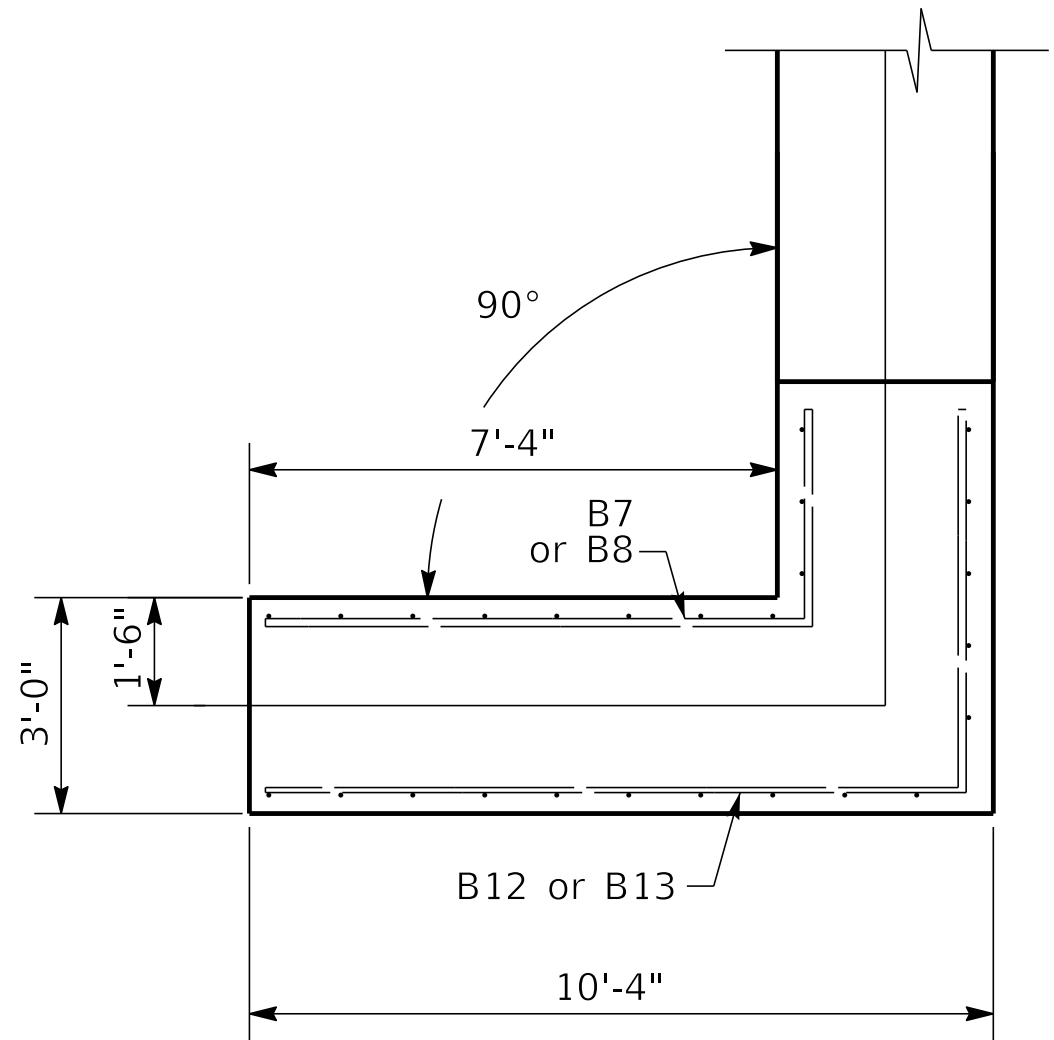
ELEVATION



SECTION A-A



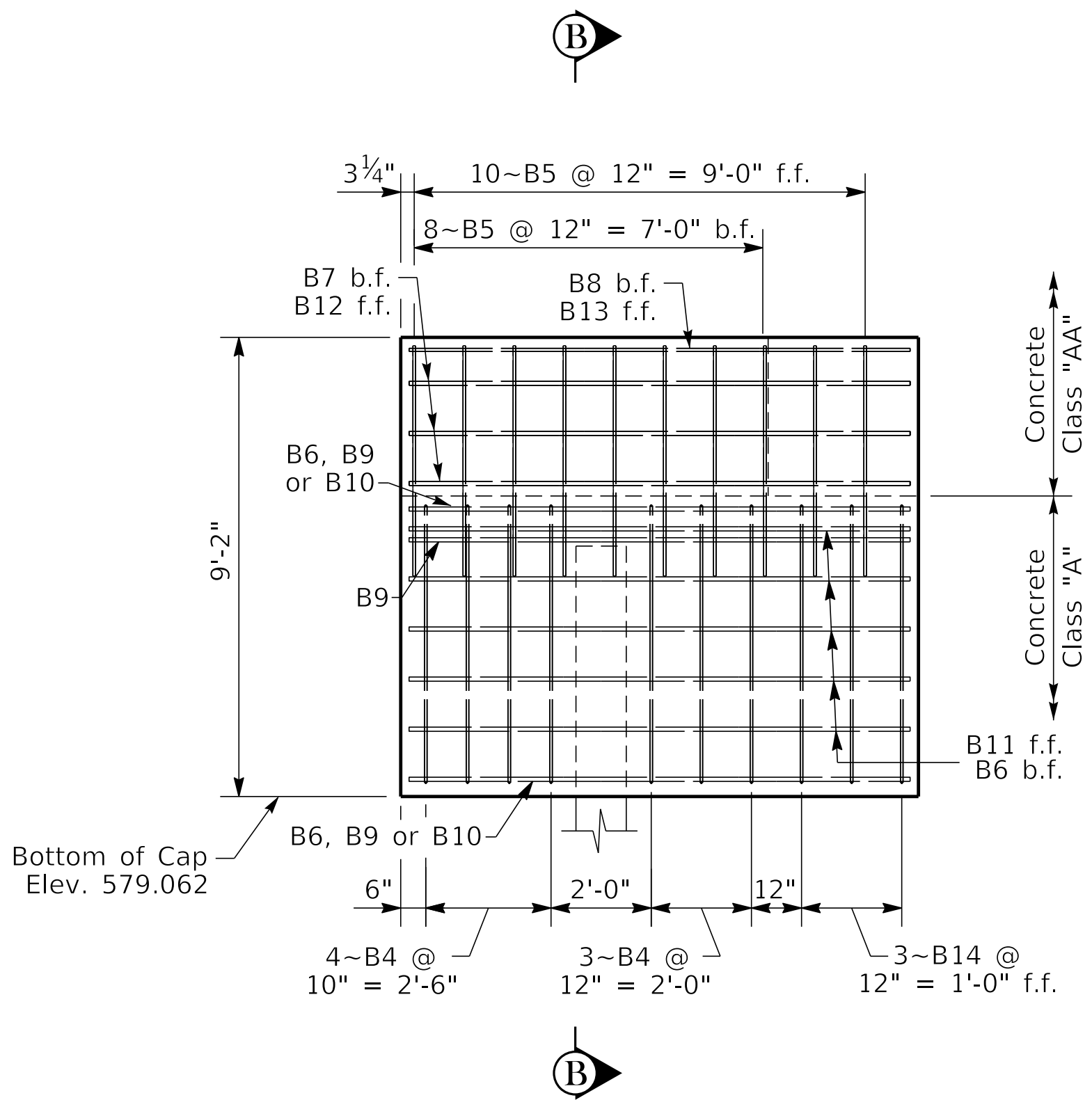
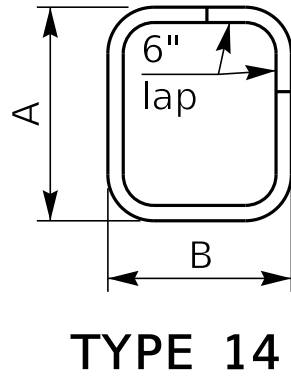
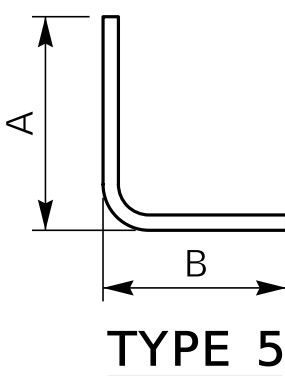
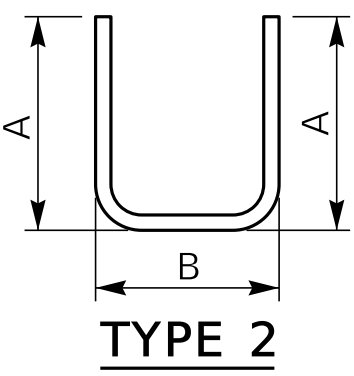
DETAIL BELOW BRIDGE SEAT



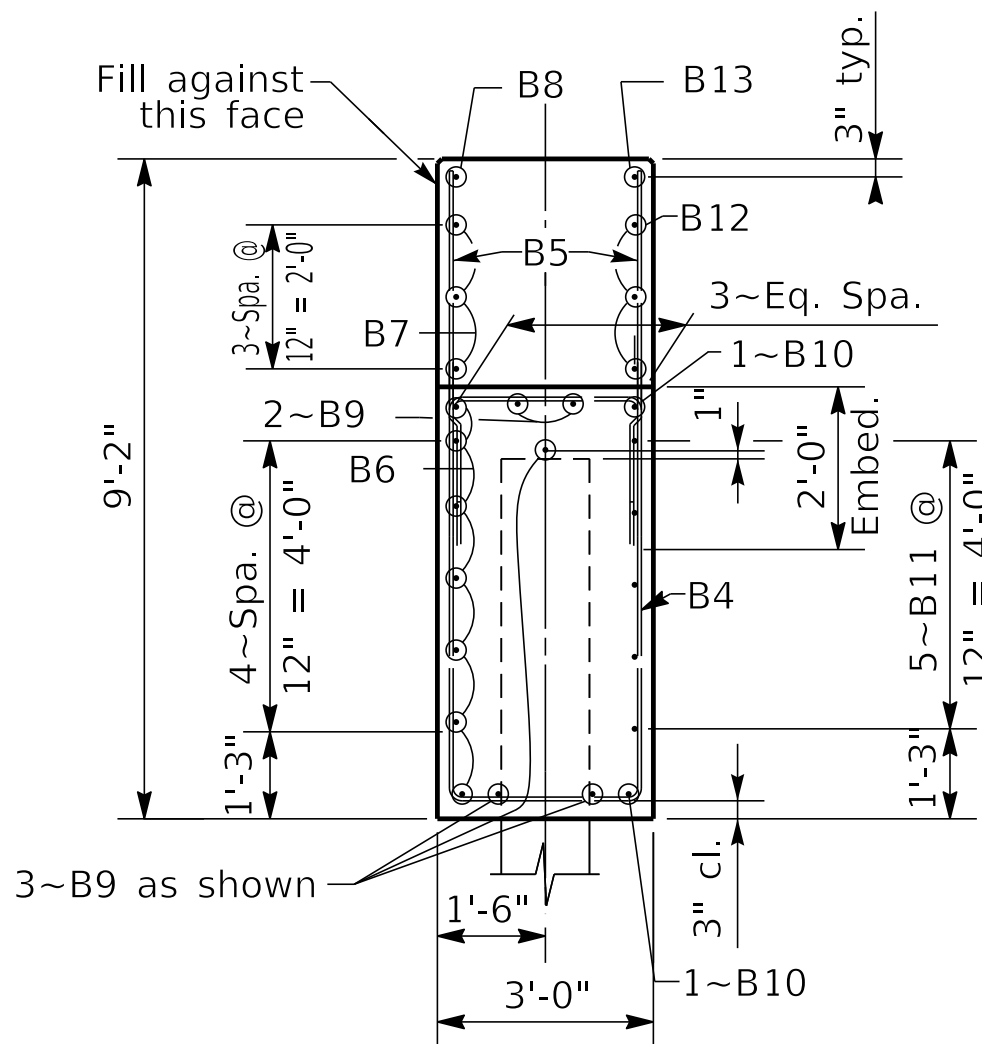
DETAIL ABOVE BRIDGE SEAT

BILL OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	B
B1e	2	6	8	37- 4	Cap B.F.	1- 0	35- 9
B2e	Str.	8	8	35- 9	Cap		
B3e	Str.	5	5	35- 9	Cap F.F.		
B4e	14s	42	5	17- 0	Cap Stirrup	5- 7	2- 8
B5e	Str.	54	5	5- 0	Wing Vertical		
B6e	5	14	8	10- 7	Wing B.F.	9-10	1- 0
B7e	5	6	5	10- 4	Wing B.F.	7- 6	3- 0
B8e	5	2	6	10- 4	Top Wing B.F.	7- 6	3- 0
B9e	Str.	10	5	7-11	Wing		
B10e	5	4	8	12- 3	Wing F.F.	9-11	2- 7
B11e	5	10	5	12- 4	Wing F.F.	9-11	2- 7
B12e	5	6	5	15- 4	Wing F.F.	9-11	5- 7
B13e	5	2	6	15- 4	Top of Wing F.F.	9-11	5- 7
B14e	Str.	6	5	5- 7	Wing F.F.		



WING ELEVATION



SECTION B-B



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



USER: Joseph.VanZee

REVISION

DATE

PREPARED BY  
**Division of  
Structural Design**

DATE: March 2023

DESIGNED BY: J. Van Zee

Detailed BY: B.Miller

CHECKED BY

N. Cordtz

J. Van Zee

**END BENT #2**

CROSSING

Upper Stinson Creek

ROUTE

KY 3297

ITEM NO.

9-40001.00

SHEET NO.

59

COUNTY OF

CARTER

DRAWING NUMBER

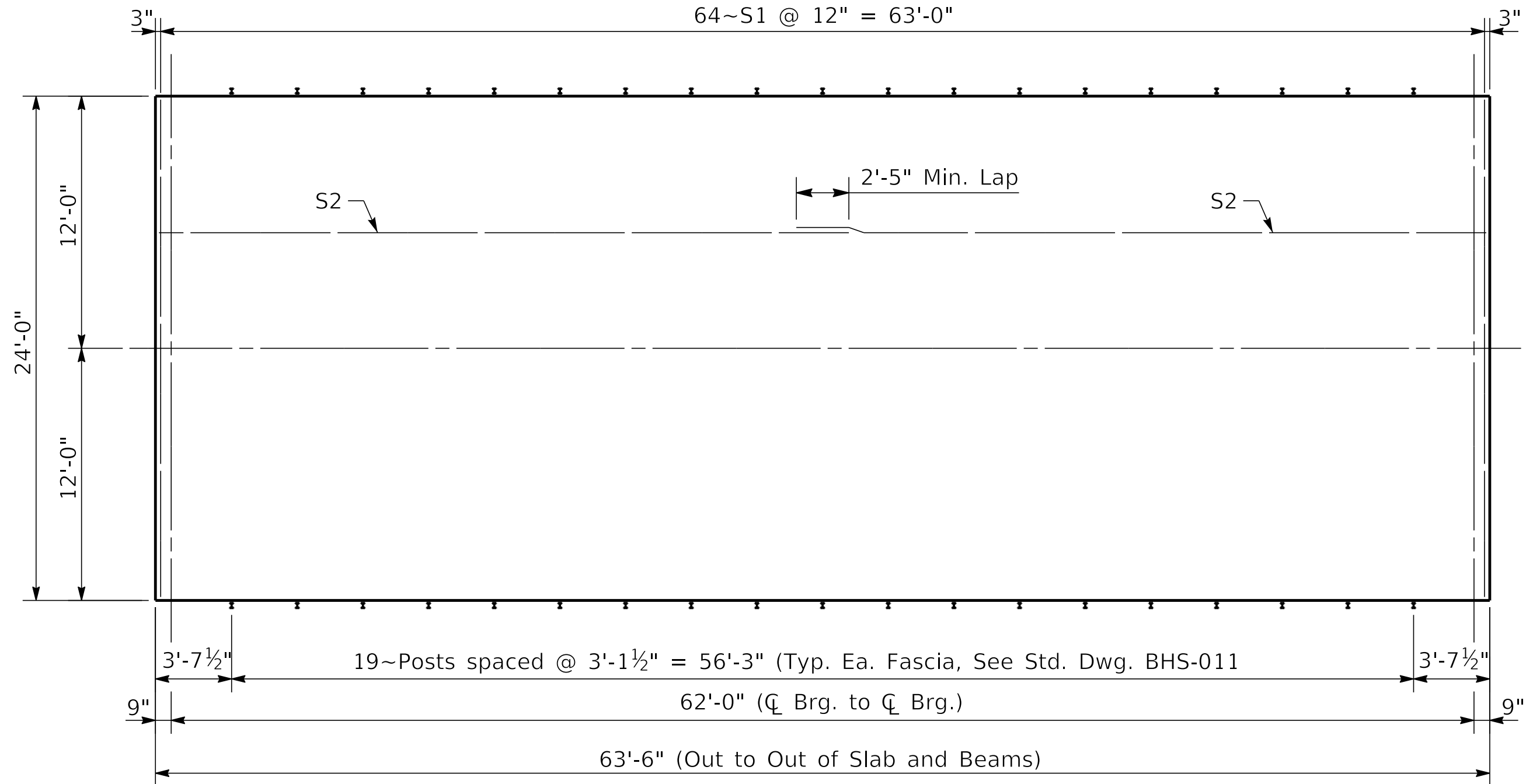
28741

MicroStation v10.16.3.31

DATE PLOTTED: 25-MAY-2023

FILE NAME: J:\District09\9-40001\28741.dgn

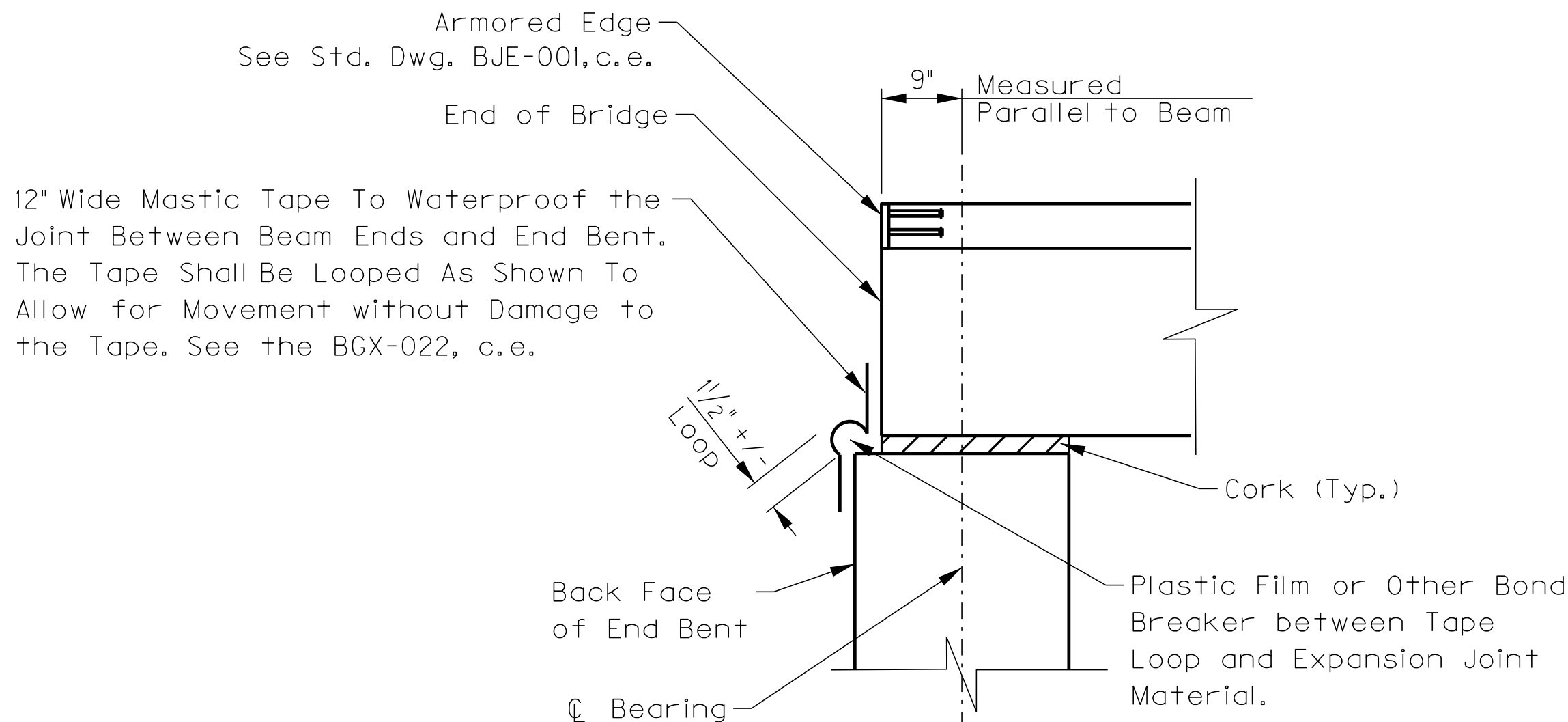
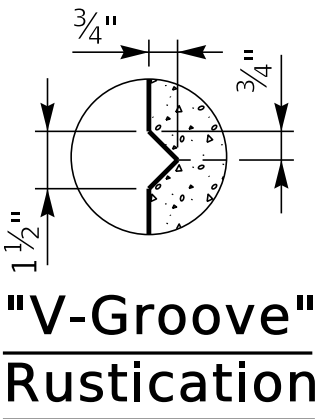
BILL OF REINFORCEMENT					
MARK	TYPE	NO.	SIZE	LENGTH	LOCATION
S1e	Str.	64	5	23'-8"	Slab
S2e	Str.	48	5	32'-10"	Slab



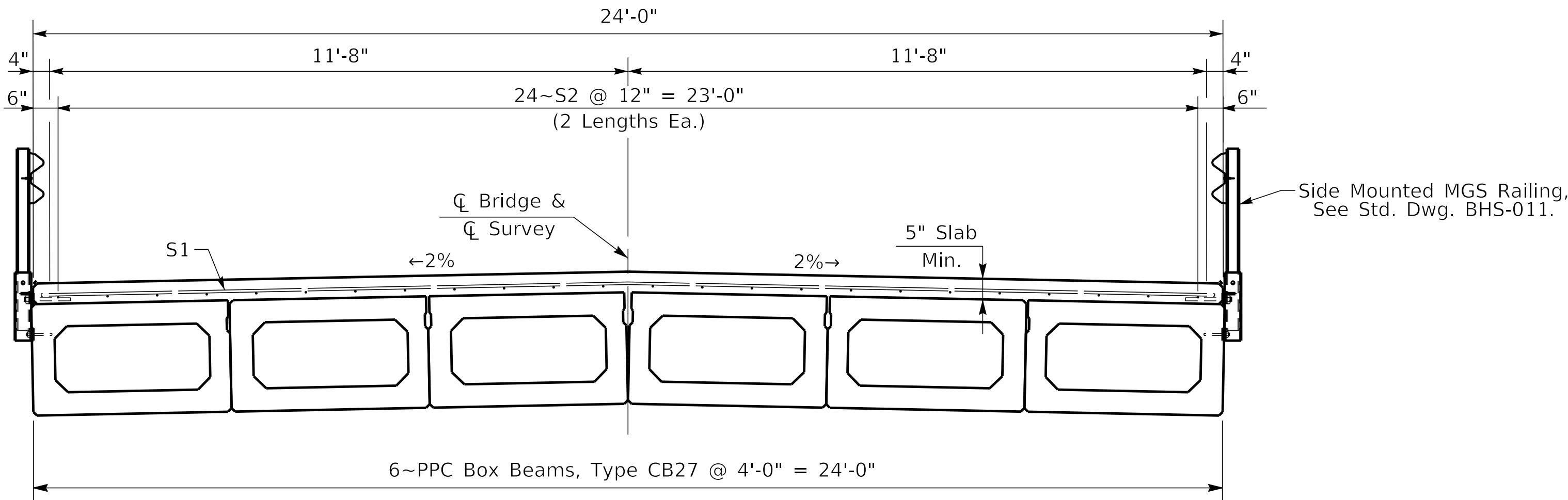
NOTE: Contrary to the Standard Drawings (5" slab thickness), the construction elevations will cause the slab to be approximately 5.3" thick at the ends and go to approximately 5" thick at the center of the bridge. This is how the quantities for Class AA Concrete were calculated. There should not be any additional concrete due to the max and min. allowable slab depths shown on the construction elevations.

PLAN OF SLAB

NOTE: Guardrail inserts in beam will need to be varied vertically to maintain proper clearance to top of slab.



JOINT WATERPROOFING DETAIL



TYPICAL SECTION



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



USER: Joseph.VanZee

REVISION	DATE

DATE PLOTTED: 25-MAY-2023

PREPARED BY  
**Division of  
Structural Design**

DATE: March 2023	CHECKED BY:
DESIGNED BY: J. Van Zee	N. Cordtz
DETAILED BY: B. Miller	J. Van Zee

FILE NAME: J:\District09\9-40001\28741.dgn

**SUPERSTRUCTURE**

CROSSING  
Upper Stinson Creek

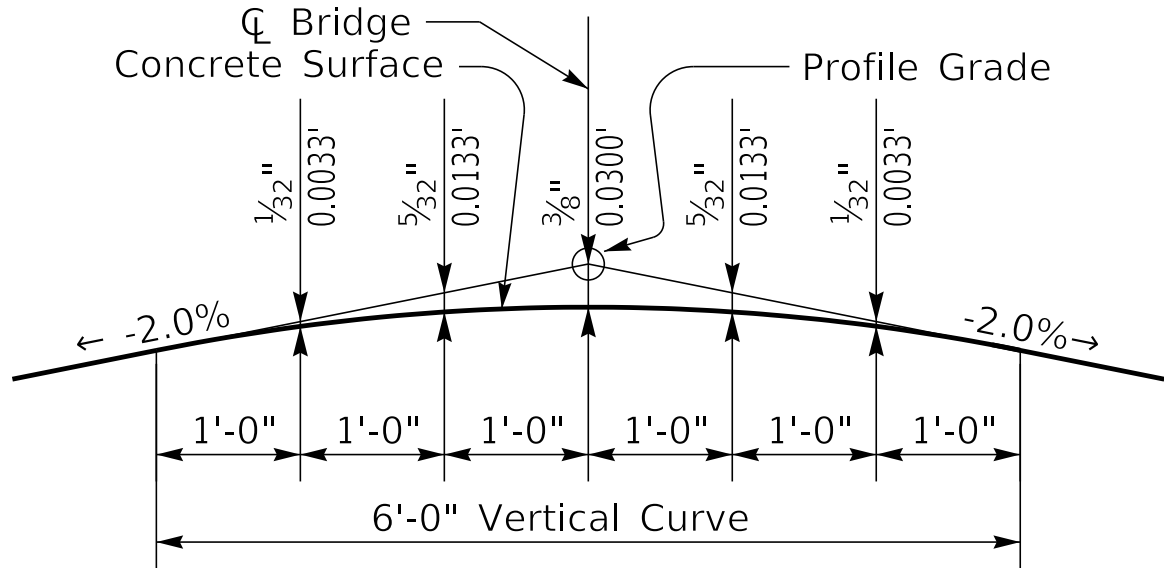
ROUTE  
KY 3297

ITEM NO.  
9-40001.00  
SHEET NO.  
S10

COUNTY OF  
CARTER  
DRAWING NUMBER  
28741

MicroStation v10.16.3.31

CONSTRUCTION ELEVATIONS									
LOCATION	LEFT FASCIA			℄ BRIDGE			RIGHT FASCIA		
	CONSTR. ELEV.	TOP OF BEAM	DIM. *X*	CONSTR. ELEV.	TOP OF BEAM	DIM. *X*	CONSTR. ELEV.	TOP OF BEAM	DIM. *X*
SKREW LN AA	587.906			588.116			587.906		
SKREW LN BB	587.907			588.117			587.907		
SKREW LN CC	587.861			588.071			587.861		
SKREW LN DD	587.859			588.069			587.859		
GRID LN 01	587.918			588.128			587.918		
GRID LN 02	587.941			588.151			587.941		
GRID LN 03	587.955			588.165			587.955		
GRID LN 04	587.960			588.170			587.960		
GRID LN 05	587.954			588.164			587.954		
GRID LN 06	587.938			588.148			587.938		
GRID LN 07	587.911			588.121			587.911		
GRID LN 08	587.876			588.086			587.876		



PARABOLIC CROWN

NOTES FOR ELEVATIONS TAKEN ON PRESTRESSED CONCRETE BOX BEAMS

Take elevations on top of beam at points indicated after the beams have been laterally tensioned and grouted. The beam elevations are to be read to three decimal places and entered in tables under "Top of Beam" elevations.

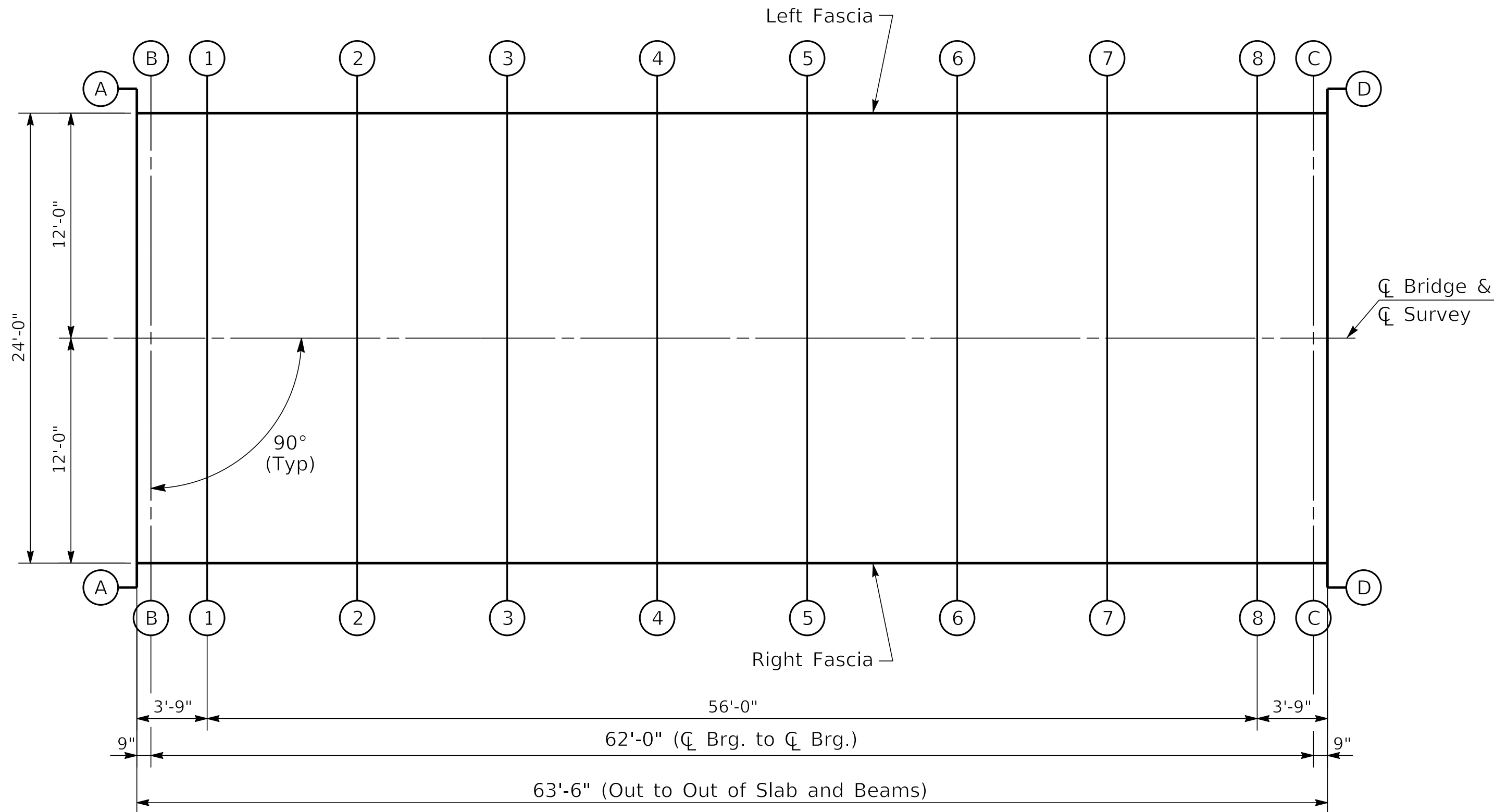
Compute dimension "X" as follows: "Construction Elevation" minus "Top of Beam" elevation equals dimension "X". Construction Elevations include camber due to weight of the concrete slab and barrier. Measuring of dimension "X" gives the final check on beam tolerances for camber, beam damage, and errors in erection that produce reverse cambers, sags, and unsightly fascia beams.

For setting templates, measure dimension "X" above top of beams for top of template. Do not set template by elevations.

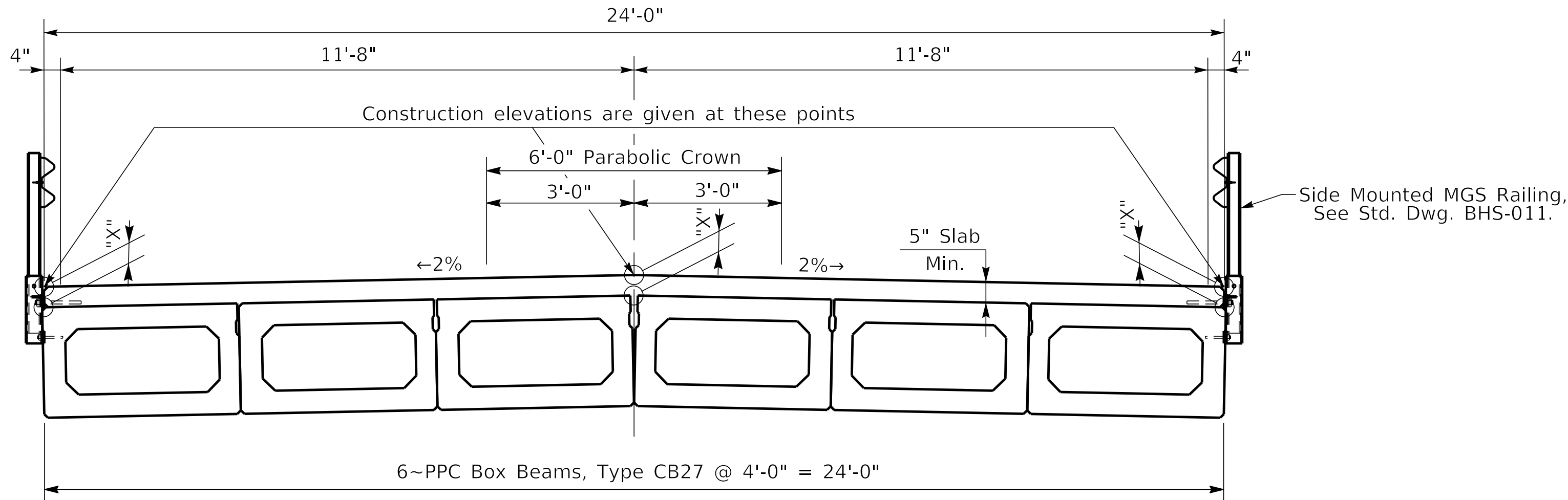
Temporary supports or shoring will not be permitted under the girders when pouring the concrete floor slab or when taking "Top of Beam" elevations.

Note to Resident: The "Maximum Allowable Camber" shown on the beam sheet is the amount of camber, measured prior to casting the deck, above which the beam will begin to encroach into the slab.

The minimum allowable dimension "X" or slab thickness is 5" (0.417'). If any computed dimension "X" is less than that, adjustmants will need to be made to the "X" dimensions on some or all grid lines. Adjustmants must meet approval of the Engineer.



GRID LAYOUT



TYPICAL SECTION



COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF HIGHWAYS



USER: Joseph.VanZee

REVISION

DATE

PREPARED BY  
**Division of  
Structural Design**

DATE: March 2023

DESIGNED BY: J. Van Zee

DETAILED BY: B.Miller

CHECKED BY

N. Cordtz

J. Van Zee

**CONSTRUCTION ELEVATIONS**

CROSSING  
Upper Stinson Creek

ROUTE

KY 3297

ITEM NO.

9-40001.00

SHEET NO.

S11

COUNTY OF

CARTER

DRAWING NUMBER

28741

MicroStation v10.16.3.31

DATE PLOTTED: 25-MAY-2023

FILE NAME: J:\District09\9-40001\28741.dgn