

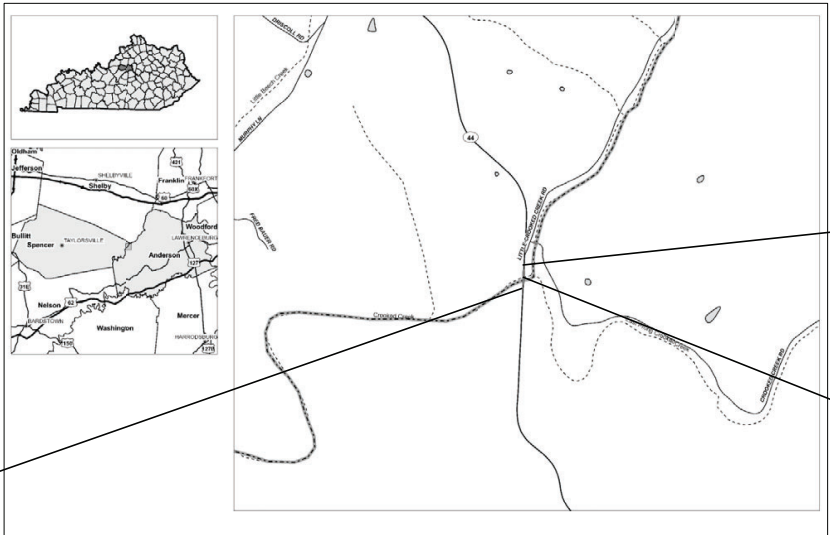
INDEX OF SHEETS	
Sheet No.	Description
R1	LAYOUT SHEET
R2	LEGEND & TYPICAL SECTIONS
R3	PLAN SHEET
R4	PROFILE SHEET
S1	GENERAL NOTES
S2	LAYOUT
S3	TYPICAL SECTION
S4	FOUNDATION LAYOUT
S5-S6	END BENT 1
S7-S8	END BENT 2
S9	END BENT 1 AND 2 BAR LIST
S10-S11	PIER DETAILS
S12	FRAMING PLAN
S13	SB42 BOX BEAM DETAILS
S14	INTERMEDIATE DIAPHRAGM DETAILS
S15	SUPERSTRUCTURE
S16	SUPERSTRUCTURE BAR LIST
S17	CONSTRUCTION ELEVATIONS 1
S18	CONSTRUCTION ELEVATIONS 2

SPECIAL PROVISIONS	
69 - EMBANKMENT AT END BENT STRUCTURES	

SPECIFICATIONS	
2019 Standard Specifications for Road and Bridge Construction.	
2017 AASHTO LRFD Bridge Design Specifications with Current Interims.	

REVISION	DATE

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY OF
ANDERSON



END PROJECT
CONSTRUCTION
STA. 44+25

STA. 42+25.75
THREE SPAN SB42X48
BOX BEAM BRIDGE
@ 30° SKEW LT

BEGIN PROJECT
CONSTRUCTION
STA. 40+25

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 utilities 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.

REV. NO.	SHEETS REVISED	DATE

AECOM



BRIDGING KENTUCKY
Restore | Renew | Replace

Digitally signed by Smith, Darrell
DN: cn=Smith, Darrell,
ou=USLVL1
Date: 2020.04.10 17:05:30 -
04'00'

Smith,
Darrell

John Robert Crosslin, PE
KY. NO. 22242

BBP-003-02	ELASTOMERIC BEARING PADS FOR BOX BEAMS
BDP-002-03	BOX BEAM BEARING DETAILS
BDP-003-03	BOX BEAM MISCELLANEOUS DETAILS
BGX-006-10	STENCILS FOR STRUCTURES
BGX-012-02	GEOTECHNICAL LEGEND
BJE-001-13	NEOPRENE EXPANSION DAMS AND ARMORED EDGES
BPS-003-09	HP12 X 53 STEEL PILE
RBR-005-11	GUARDRAIL COMPONENTS
RBR-010-06	GUARDRAIL TERMINAL SECTIONS
RBR-016-05	TIMBER GUARDRAIL POSTS
RDD-021-07	FLUME INLET TYPE 2
RDD-040-05	CHANNEL LINING CLASS II AND III
RD1-040-01	EROSION CONTROL BLANKET SLOPE INSTALLATION
RDx-210-03	TEMPORARY SILT FENCE
RDx-215-01	TEMPORARY SILT FENCE WITH WOVEN WIRE FENCE FABRIC
RDx-225-01	SILT TRAP TYPE B
RGX-001-06	MISCELLANEOUS STANDARDS PART 1
RGX-200-01	ONE POINT PROCTOR FAMILY OF CURVES
RPM-110-07	APPROACHES, ENTRANCES AND MAIL BOX TURNOUT

SEPIA 009	TREATMENT OF EMBANKMENTS AT END-BENTS
SEPIA 010	TREATMENT OF EMBANKMENTS AT END-BENTS - DETAILS
SEPIA 024	TYPICAL GUARDRAIL INSTALLATIONS
SEPIA 027	STEEL BEAM GUARDRAIL ("W" BEAM)
SEPIA 028	STEEL GUARDRAIL POSTS
SEPIA 032	DELINEATORS FOR GUARDRAIL
SEPIA 033	GUARDRAIL SYSTEM TRANSITION
SEPIA 047	BOX BEAM GENERAL NOTES AND REFERENCES
SEPIA 053	RAILING SYSTEM 40 INCH SINGLE SLOPE
SEPIA 057	THRIE-BEAM GUARDRAIL TRANSITION (TL-3)
SEPIA 060	CURB AND GUTTER, CURBS AND VALLEY GUTTER

CLASS OF HIGHWAY	RURAL MAJOR COLLECTOR
TYPE OF TERRAIN	
DESIGN SPEED	
REQUIRED NPSD	
REQUIRED PSD	
LEVEL OF SERVICE	
ADT PRESENT (2018)	385
ADT FUTURE ()	
DHV	
D %	
T %	

LATITUDE 38 DEGREES 01 MINUTES 37 SECONDS NORTH
LONGITUDE 85 DEGREES 06 MINUTES 35 SECONDS WEST

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

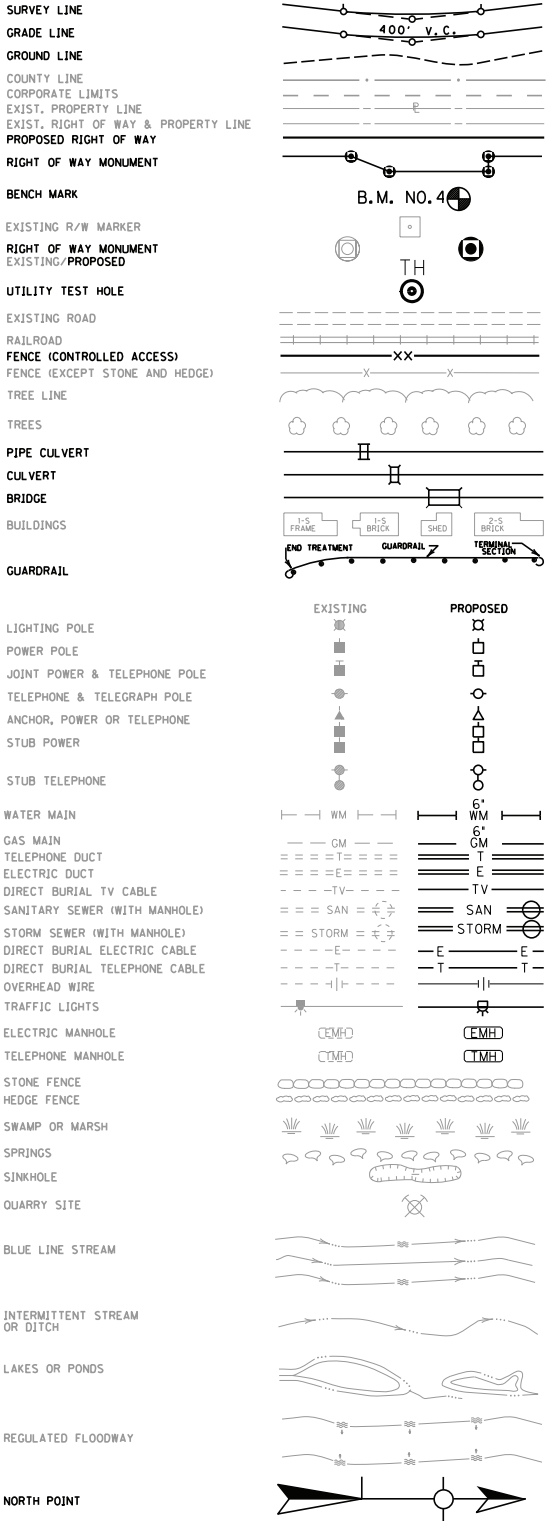
FILE NAME: ..\Disciplines\Roadway\Drawing\RI

USER: darrell.smith
DATE PLOTTED: 4/10/2020 2:38:27 PM

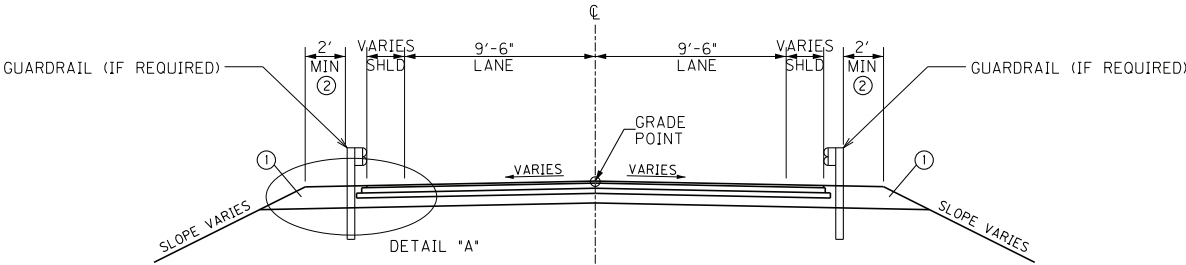
E-SHEET NAME:

MicroStation v8.11.9.867

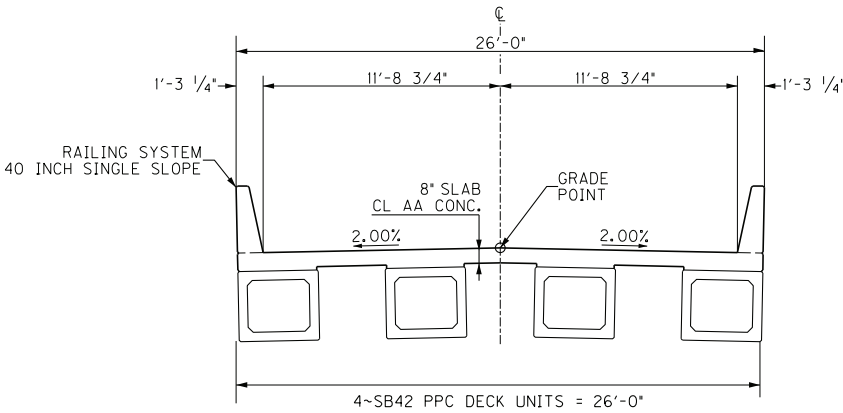
CONVENTIONAL SIGNS



TYPICAL SECTIONS
KY 44



ROADWAY TYPICAL SECTION
KY 44



BRIDGE NORMAL SECTION
KY 44

FULL-DEPTH MAINLINE & SHOULDER PAVEMENT RECONSTRUCTION

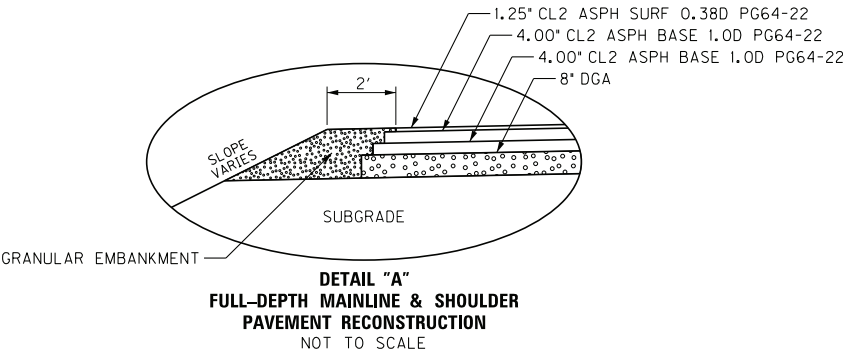
TRAFFIC LANES:	
DENSE GRADED AGGREGATE	8" DEPTH
CL2 ASPH BASE 1.00D PG64-22	4" DEPTH
CL2 ASPH BASE 1.00D PG64-22	4" DEPTH
CL2 ASPH SURF 0.38D PG64-22	1.25" DEPTH

SHOULDER:	
DENSE GRADED AGGREGATE	8" DEPTH
CL2 ASPH BASE 1.00D PG64-22	4" DEPTH
CL2 ASPH BASE 1.00D PG64-22	4" DEPTH
CL2 ASPH SURF 0.38D PG64-22	1.25" DEPTH

ENTRANCES:	
DENSE GRADED AGGREGATE	4" DEPTH
CL2 ASPH BASE 1.00D PG64-22	2.25" DEPTH
CL2 ASPH SURF 0.38D PG64-22	1.25" DEPTH

NOTES:
SEE SHEET R3 FOR LIMITS OF FULL DEPTH PAVEMENT CONSTRUCTION. AREAS OUTSIDE OF FULL DEPTH LIMITS SHALL BE OVERLAID. APPROACH PAVEMENT SHALL BE IN ACCORDANCE WITH THE SPECIAL NOTE FOR BRIDGE OVERLAY APPROACH PAVEMENT.

- ① DGA BASE OR OTHER GRANULAR MATERIAL APPROVED BY THE ENGINEER NEEDED FOR SHOULDERS OUTSIDE OF PAVED AREA WILL BE MEASURED AND PAID AS GRANULAR EMBANKMENT IN ACCORDANCE WITH THE SPECIAL NOTE FOR BRIDGE OVERLAY APPROACH PAVEMENT.
- ② CONTRARY TO SEPIA 024, WIDENING FOR GUARDRAIL SHOULD INCLUDE THE WIDTH OF THE GUARDRAIL AND 2 FEET OF FILL BEHIND THE GUARDRAIL POST.



NOT TO SCALE



KY 44
LEGEND & TYPICAL SECTIONS SHEET

PROJECT COORDINATES
Coordinates for horizontal control were obtained by redundant GPS observations using Trimble R12 GNSS receivers on the NAD83 Kentucky State Plane Coordinate System, KY Single Zone, US Survey Feet utilizing the KYCORS RTN GPS Network on March 5, 2020. Coordinates shown are State Plane Coordinates, US Survey Feet. No project datum factor was calculated or used for this project.

BASIS OF ELEVATIONS
Elevations were established by redundant GPS observations using Trimble R12 GNSS receivers on the NAVD88 vertical datum, GEOID12B utilizing the KYCORS RTN Network on March 5, 2020 and were adjusted by closed differential level loop based on the elevation of CP 101 = 672.01'.

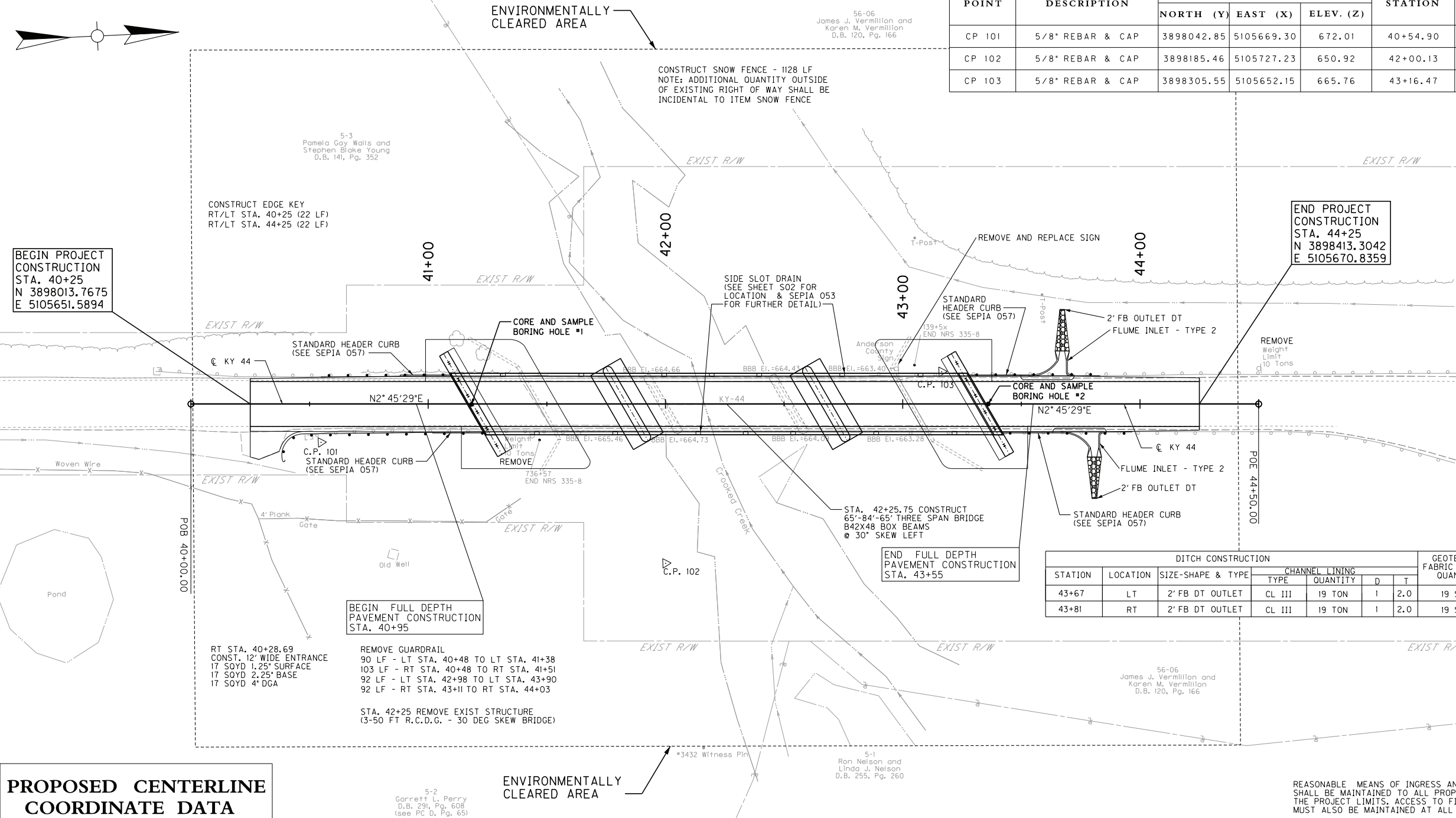
SIDE	STA.	TO	STA.	GUARDRAIL STEEL "W" BEAM ~ KY 44			THRIE-BEAM GUARDRAIL TRANSITION (TL-3)
				SINGLE FACE-A (LF)	SINGLE FACE (LF)	END TREATMENT (EACH)	
RT	40+38	-	41+06	-	75	TERM. SECT. NO. 1	1
LT	40+54	-	40+92	-	37.5	TIE TO EXIST.	1
LT	43+46	-	43+83	-	37.5	TIE TO EXIST.	1
RT	43+59	-	43+97	-	37.5	TIE TO EXIST.	1

KY-44 over Crooked Creek
Existing Bridge #003B00029N

COUNTY OF	ITEM NO.	SHEET NO.
ANDERSON	7-10020	R3

COORDINATE CONTROL POINTS

POINT	DESCRIPTION	State Plane Coordinates			STATION	OFFSET
		NORTH (Y)	EAST (X)	ELEV. (Z)		
CP 101	5/8" REBAR & CAP	3898042.85	5105669.30	672.01	40+54.90	16.29' RT
CP 102	5/8" REBAR & CAP	3898185.46	5105727.23	650.92	42+00.13	67.29' RT
CP 103	5/8" REBAR & CAP	3898305.55	5105652.15	665.76	43+16.47	13.48' LT



PROPOSED CENTERLINE
COORDINATE DATA

POINT	State Plane Coordinates		STATION
	NORTH (Y)	EAST (X)	
POB	3897988.7965	5105650.3865	40+00.00
POE	3898438.2752	5105672.0388	44+50.00

NOTE: ALL MATERIAL THAT WAS PLACED OR THAT HAD FALLEN INTO STREAM SHALL BE REMOVED BY THE CONTRACTOR AT THE END OF THE PROJECT AND THE STREAM SHALL BE RESTORED TO ITS PRECONSTRUCTION CONDITION.



KY 44
PLAN SHEET
STA. 40+00 TO STA. 44+50

REASONABLE MEANS OF INGRESS AND EGRESS SHALL BE MAINTAINED TO ALL PROPERTIES WITHIN THE PROJECT LIMITS. ACCESS TO FIRE HYDRANTS MUST ALSO BE MAINTAINED AT ALL TIMES.

FILE NAME: c:\pwworking\00251363\SO1 General Notes.dgn

USER: Crosslin,
DATE PLOTTED: 4/9/2020 3:03:09 PM

E-SHEET NAME:

MicroStation v8.11.3.714

General Notes

Specifications: References to the specifications are to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction including any current supplemental specifications. All references to the AASHTO specifications are to the AASHTO LRFD Bridge Design Specifications, 8th edition with interims.

Design Load: This bridge is designed for KYHL-93 live load, (i.e. 1.25x AASHTO HL93 live load). This bridge is designed for a future wearing surface of 15 psf.

Design Method: All reinforced concrete members are designed to be equivalent or greater than the load and resistance factor design method as specified in the current AASHTO Specifications.

Materials Design Specifications:

For Class 'A' Reinforced Concrete	f'c = 3500 psi
For Class 'AA' Reinforced Concrete	f'c = 4000 psi
For Steel Reinforcement	fy = 60000 psi
For Pile Steel	fy = 50000 psi

Material Specifications: AASHTO Specifications or ASTM, current edition, as designated below shall govern the materials furnished.

AASHTO M153	Premolded Cork Filler, Type II
AASHTO M-31	Deformed and Plain Billet-Steel for Concrete Reinforcement, Grade 60

Preformed Cork Expansion Joint Material: Preformed Cork Expansion Joint Material shall conform to subsection 807.04.02 (Type II) of the Kentucky Department of Highways Standard Specifications.

Payment for Precast Concrete Beams: The basis of payment for the Prestressed Concrete Beams shall be at the contract unit price per linear foot of beam, in accordance with the specifications.

Slope Protection: Slope Protection at abutments shall be dry cyclopean stone riprap in accordance with the plans and specifications. Geotextile Fabric, Class I shall be placed between the embankment and the slope protection in accordance with Standard Specifications 214 and 843. Payment for Geotextile Fabric, Class I, shall be considered incidental to the unit price bid for Dry Cyclopean Stone Riprap.

Stay-In-Place Metal Forms: Stay-In-Place Metal Forms may be used on bridge decks under the following additional conditions:

The valleys of forms shall be filled with trimmed styrofoam to eliminate increased dead load from concrete.

The welding shall be performed by a certified welder.

Piling: Piling shall be driven to practical refusal as defined on the pile record sheet.

Test piles shall be driven where designated on the plans to determine the length of pile required.

All test piles shall be accurately located so that they may be used in the finished structure.

Contrary to the standard drawings for steel piling, mill test reports are not required to be notarized.

Pile Points: Provide pile points for all piles. Pile points shall be in accordance with Section 604 of the specifications and of the type shown on the pile record sheet.

Wind Loads: This bridge is designed for a wind load based on a wind velocity of 100 mph.

Concrete: Class 'AA' Concrete is to be used throughout the superstructure and in the portions of the substructure above the tops of caps. Class 'A' concrete is to be used in the substructure below the caps.

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. 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.

Construction Identification: The names of the Prime Contractor and the Sub-Contractor shall be imprinted in the concrete with 1 inch letters at a location designated by the engineer. The contractor shall furnish all plans, equipment and labor necessary to do the work for which no direct payment will be made.

Beveled Edges: All exposed edges shall be beveled ¾", unless otherwise shown.

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: The fabricator shall submit all required shop plans, by email to SHOP_003B00029N@docs.e-Builder.net, for review. These submissions shall depict the shop plans in .PDF format, as either 11"x17" or 22"x36" sheets. Designers will make review comments on these electronic submissions as needed and, if required, shall return them to the fabricator for corrections and resubmittal. Upon acceptable reconciliation of all comments, files shall be sent to the Bridging Kentucky Shop Plan Coordinator for distribution. Only plans submitted directly to the Shop Plan Coordinator will be distributed. Additionally, only plans electronically stamped "Distributed by The Bridging Kentucky Program Team" are to be used for fabrication. While this process does not require the submission of paper copies, the Engineer of Record reserves the right to require such copies on a case by case basis. When any changes to the design plans are proposed, the shop drawings reflecting these changes shall be submitted through the process above.

Note: The designation in the email 003B00029N refers to the Bridge ID number which is located on the Title Sheet, RI of the Bridge Plans. Example: SHOP_003B00029N@docs.e-Builder.net

Utilities: The contractor shall be responsible for locating any and all existing utilities prior to excavation of material or installation of guardrail or other construction activities that may involve utilities (overhead or underground).

Verifying Field Conditions: The contractor shall field verify all dimensions before ordering material. New material that is unsuitable because of variations in the existing structure shall be replaced at the contractor's expense.

Dimensions: Dimensions are for a normal temperature of 60 degrees fahrenheit. Layout dimensions are horizontal dimensions.

Slab Pour Sequences: Ensure the entire superstructure slab is poured continuously, out to out, before allowing any concrete to set.

Concrete Sealer: Apply concrete sealer in accordance with the Special Note for Concrete Sealing and to the limits as indicated in the plans.

Elastomeric Bearing Pads: Elastomeric Bearing Pads shall conform to the AASHTO Standard Specifications for Highway Bridges.

Bearings shall be Low Temperature Grade 3 with a shear modulus between 95 psi and 130 psi and shall be subjected to the load testing requirements corresponding to Design Method B. The cost of bearing pads is to be included in the unit price per linear feet for Precast Beams.

Temporary Supports: Temporary Supports or shoring will not be permitted under the beams when pouring the concrete deck slab or when taking 'top of beam' elevations.

Armored Edge: Fabricate armored edge to match cross slope and parabolic crown at each end of bridge.

Foundation Preparation: Foundation Preparation shall be in accordance with Section 603 of the Specifications.

Foundation excavations should be properly braced/shored to provide adequate safety to persons working in or around excavations. Bracing should be performed in accordance with applicable federal, state and local guidelines.

Temporary shoring, sheeting, cofferdams, and/or dewatering methods may be required to facilitate foundation construction. It should be anticipated that groundwater will be encountered at foundation locations within the flood plain.

Temporary shoring, bracing, sheeting, cofferdams and dewatering shall be included in the Lump Sum Bid for Foundation Preparation.

Structural Granular Backfill: Materials for Structural Granular Backfill shall be in accordance with Section 805 of the Specifications.

Contrary to the Specifications, Structural Granular Backfill will not be measured for payment but shall be included in the Lump Sum Bid for Foundation Preparation.

Spread Footing: Based on a review of the existing subsurface conditions and anticipated structural loads, it is recommended that rock bearing foundation system consisting of spread footings be used for pier substructure elements. A presumptive bearing resistance of 20 ksf on unweathered bedrock is being recommended.

Excavation for footings at the structure locations should be level and free of loose, water softened material, etc. Additional rock excavation to achieve suitable bearing conditions may be required depending upon topography and bedrock weathering conditions.

Solid rock excavation will be required for installation of the substructure's spread footings. The contractor shall take care during blasting and other excavation methods to avoid over-breakage and damage to the bedrock beneath the footings.



Footing excavations in bedrock shall be cut neatly so that no forming or backfilling is necessary in the construction of the portions of the footings located in rock. Concrete shall be placed directly against the cut rock faces. Mass concrete should be placed in the excavation from the top of the footing to the bedrock surface where the footing does not extend to the bedrock surface.

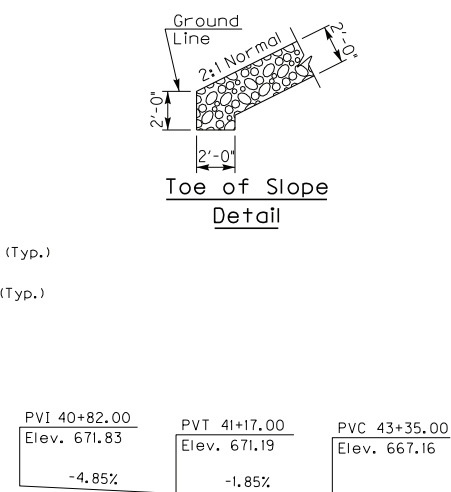
Bearing elevation of footings may be adjusted at the discretion of the Engineer if competent, unweathered bedrock is found at a higher elevation than specified for the respective substructure element. The top of new spread footings should be fully embedded into unweathered bedrock. At a minimum, two-foot embedment into competent bedrock shall be maintained.

Prior to placement of any concrete or reinforcing steel in a foundation excavation, the excavation bottom should be clean and all soft, wet, or loose materials should be removed. In no case should concrete be placed upon compressible or water-softened materials. Any clay seams or suspect weak materials at or near the bearing elevation will need to be undercut and replaced with mass concrete.

Concrete placement for footings should be placed as soon as practical after completion of the footing excavation. If the bedrock becomes softened at bearing elevation, the softened material should be undercut to unweathered material prior to placement of reinforcing steel and concrete. Seasonal groundwater fluctuations may cause groundwater infiltration into the footing excavation, and a dewatering method may be necessary.

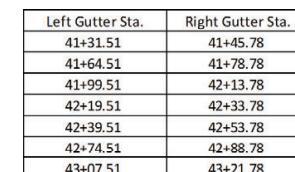
ITEM NUMBER	
7-10020	

PREPARED BY			SHEET NO.
			S01
			DRAWING NO.
			28332





ELEVATION

65' x 84' x 65' SB42 Box Beams ~ 30° Skew Left ~ Spans Continuous for Live Load
 HL93x125% ~ 23'-7½" Bridge Roadway Width ~ 2:1 Fill Slopes



ITEM NUMBER
7-10020

REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: A. EDELEN		J. CROSSLIN	
DETAILED BY: A. EDELEN		J. CROSSLIN	
<p align="center">Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</p>			
<p align="center">COUNTY ANDERSON</p>			
ROUTE KY-44		CROSSING Crooked Creek	
<p align="center">LAYOUT</p>			
PREPARED BY 			
		SHEET NO. S02 DRAWING 2833	

FILE NAME: c:\pw_working\d0251363\S02_Layout.dgn

USER: CrosslinJ
DATE PLOTTED: 4/9/2020 10:37:16 AM

E-SHEET NAME:

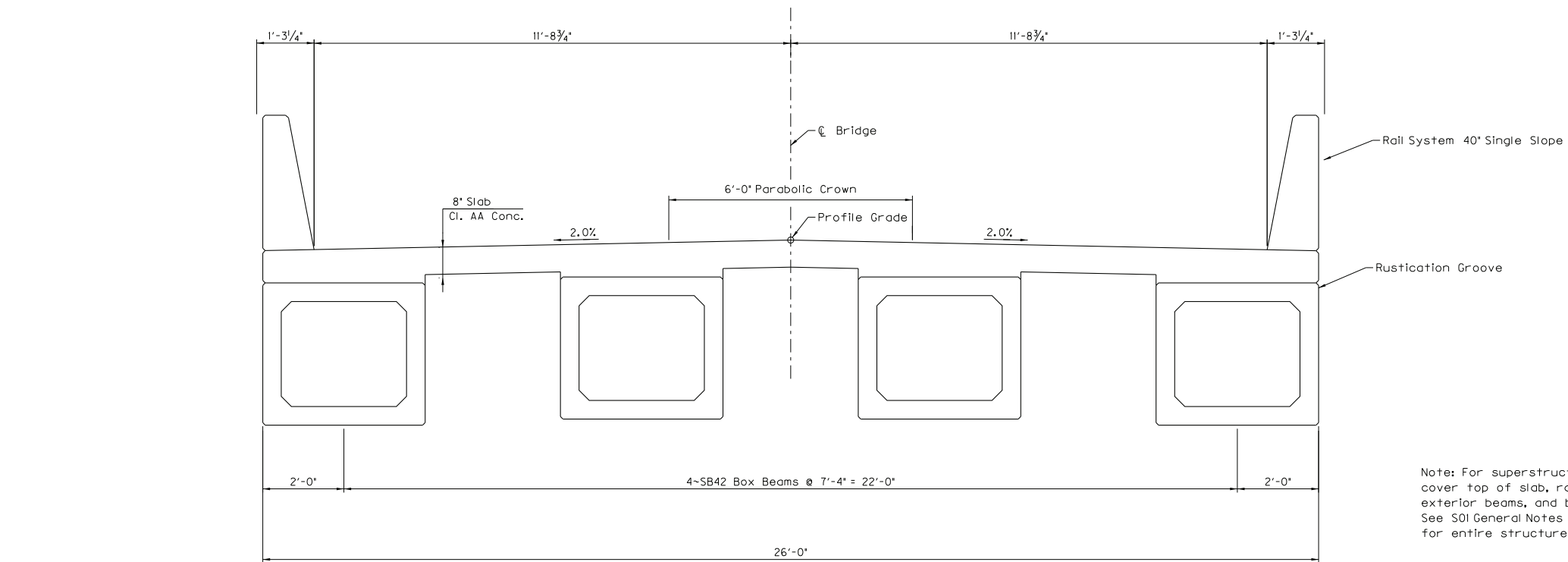
MicroStation v8.11.9.714

FILE NAME: c:\pwworking\00251363\S03.Typical.Section.dgn

USER: J. Crosslin
DATE PLOTTED: 4/9/2020 10:37:35 AM

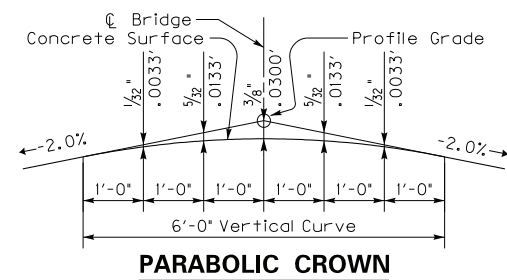
E-SHEET NAME:

MicroStation v8.11.9.714



Note: For superstructure, Concrete Sealer to cover top of slab, railings, exterior face of exterior beams, and bottom face of exterior beams. See S01 General Notes for Concrete Sealer guidance for entire structure.

TYPICAL SECTION



REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: A. EDELEN		J. CROSSLIN	
DETAILED BY: A. EDELEN		J. CROSSLIN	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS			
COUNTY			
ANDERSON			
ROUTE		CROSSING	
KY-44		Crooked Creek	
TYPICAL SECTION			
PREPARED BY		SHEET NO.	
AECOM		S03	
		DRAWING NO.	
		28332	

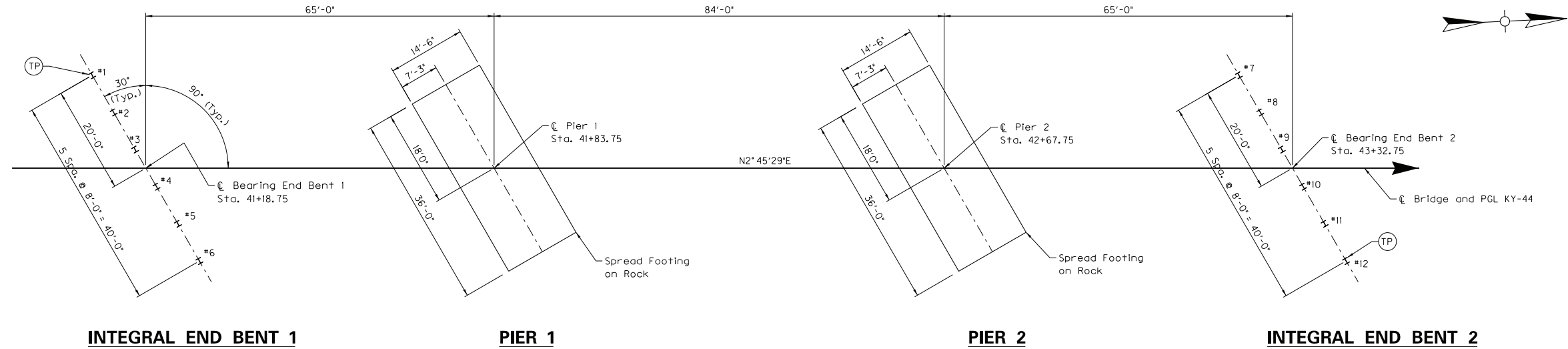
ITEM NUMBER
7-10020

FILE NAME: c:\pwworking\00251363\SD4_Foundation Layout.dgn

USER: J. Crosslin
DATE PLOTTED: 4/9/2020 10:37:50 AM

E-SHEET NAME:

MicroStation v8.11.3.714



FOUNDATION LAYOUT

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
1	665.44			100
2	665.44			100
3	665.44			100
4	665.44			100
5	665.44			100
6	665.44			100
7	661.48			100
8	661.48			100
9	661.48			100
10	661.48			100
11	661.48			100
12	661.48			100

Notes

1. A diesel pile driving hammer with a rated energy between 13.5 foot-kips and 20.1 foot-kips will be required to drive 12x53 steel H-piles to practical refusal without encountering excessive blow counts or damaging the piles. The Contractor shall submit the proposed pile driving system to the Engineer 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.
2. The installation of the pile foundations should conform to current AASHTO LRFD Bridge Design Specifications, and Section 604 of the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction.
3. The Kentucky Transportation Cabinet recommends that protective pile points be used on end bearing piles to allow for embedment into the top of bedrock. Use of reinforced pile points capable of penetrating boulders and hard layers which may be encountered is recommended. Installation of pile points should be in accordance with Section 604 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.
4. For spread footing on rock, see general notes sheet.

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.

POINT OF PILE 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: For this project minimum blow requirements are reached after total penetration becomes 1/2" 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" or less. Advance the production piling to the driving resistances specified above and to depths determined by test piles and subsurface data sheets. 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.

Field Data

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

Submit this record to:

Kentucky Transportation Cabinet
Director, 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 HP 12x53 in accordance with BPS-003, c.e.

ITEM NUMBER
7-10020

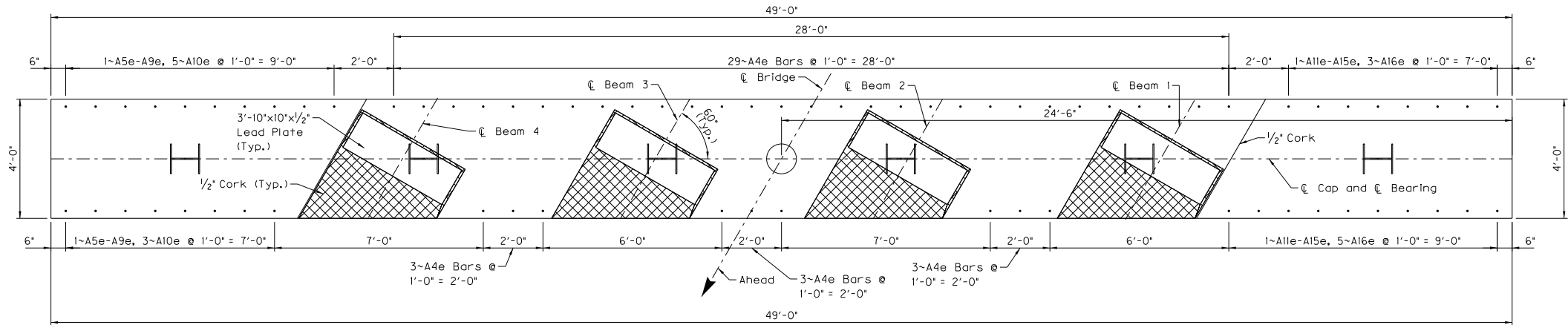
REVISION	
DATE	
DATE: 04/01/2020	CHECKED BY
DESIGNED BY: J. CROSSLIN	A. EDELEN
DETAILED BY: J. CROSSLIN	A. EDELEN
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY ANDERSON	
ROUTE KY-44	CROSSING Crooked Creek
FOUNDATION LAYOUT	
PREPARED BY AECOM	SHEET NO. S04
BRIDGING KENTUCKY	DRAWING NO. 28332

FILE NAME: c:\pwworking\00251363\S05-End.Bent-1A.dgn

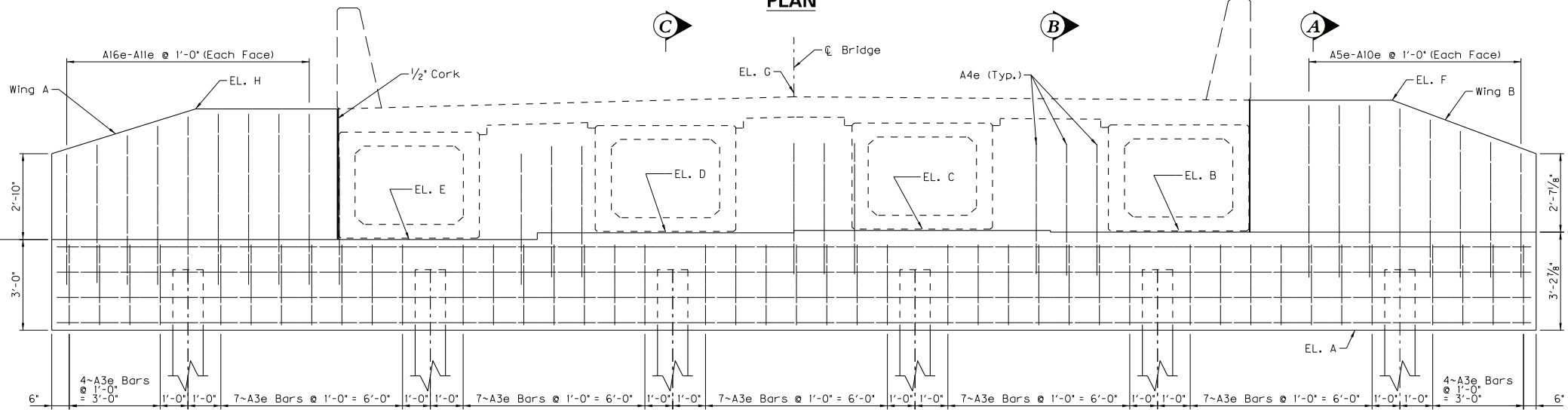
USER: J. Crosslin
DATE PLOTTED: 4/9/2020 10:38:22 AM

E-SHEET NAME:

MicroStation v8.11.3.714

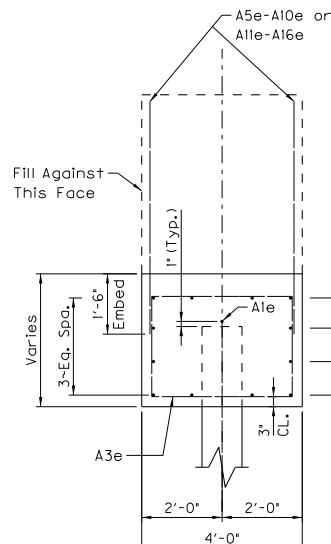


PLAN

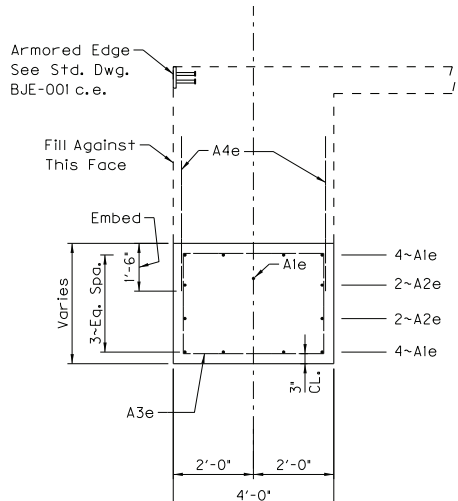


ELEVATION

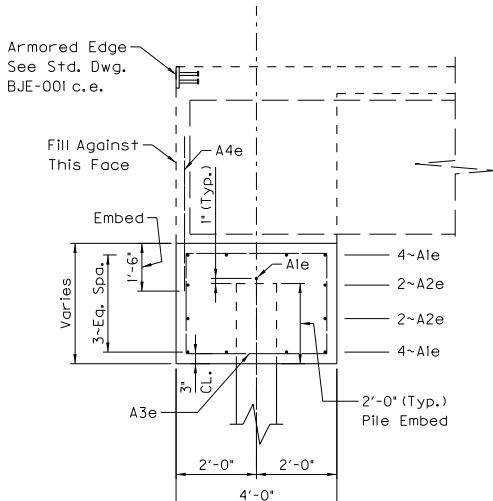
(Looking Back at End Bent 1)



SECTION A-A




SECTION B-B



SECTION C-C

Notes:
If laps are necessary
#8 Bars = 4'-4"
#5 Bars = 2'-4"

I.D.	End Bent 1 EL.
A	663.44
B	666.68
C	666.74
D	666.66
E	666.44
F	671.54
G	671.15
H	671.25

REVISION		DATE
DATE: 04/01/2020		CHECKED BY
DESIGNED BY: J. CROSSLIN		A. EDELEN
DETAILED BY: J. CROSSLIN		A. EDELEN
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY		
ANDERSON		
ROUTE		CROSSING
KY-44		Crooked Creek
END BENT 1		
PREPARED BY		SHEET NO.
AECOM		S05
BRIDGING KENTUCKY  Restoring Renewing Regulating		DRAWING NO. 28332

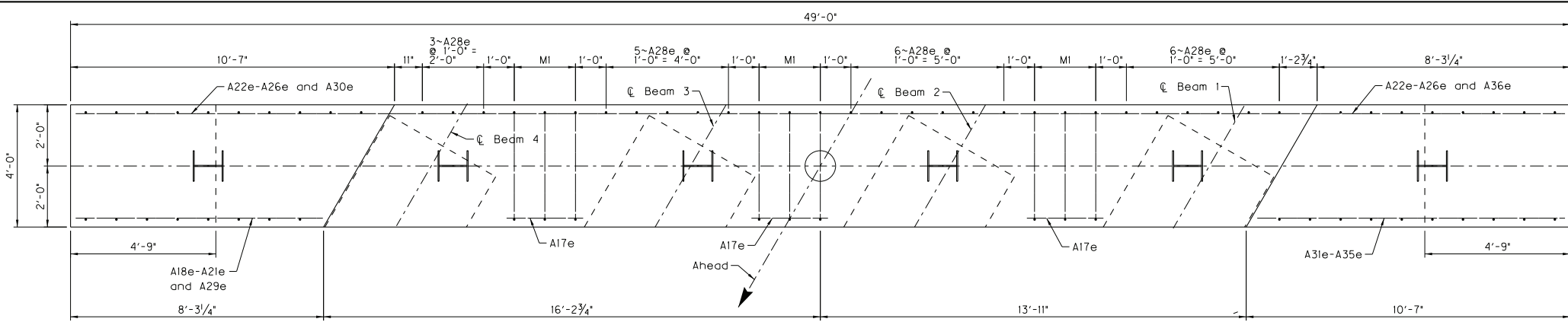
ITEM NUMBER
7-10020

FILE NAME: c:\pwworking\00251363\S06-End.Bent-1B.dgn

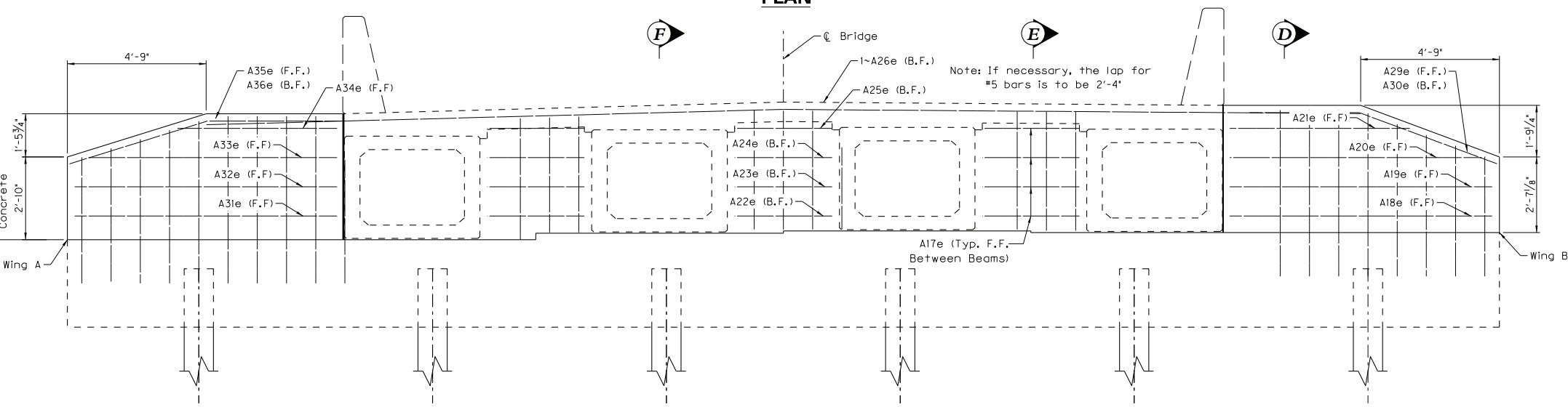
USER: J. Crosslin
DATE PLOTTED: 4/9/2020 10:38:50 AM

E-SHEET NAME:

MicroStation v8.11.9.714

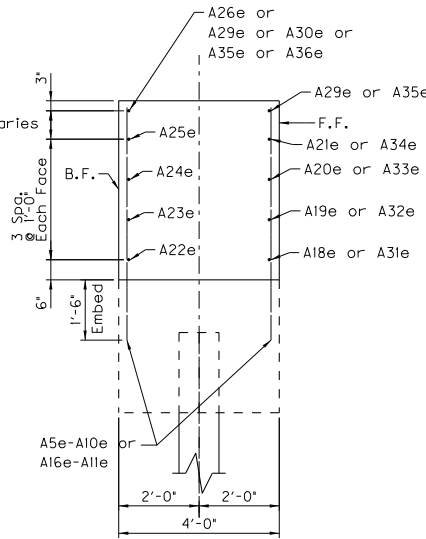


PLAN

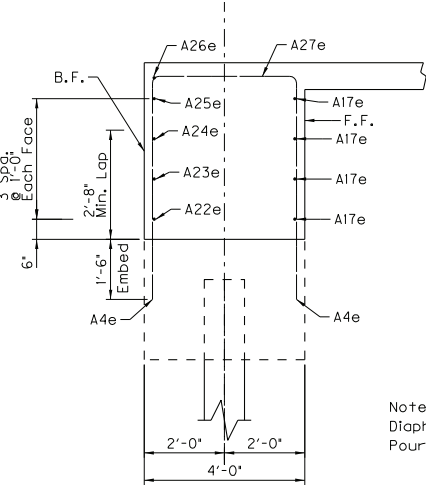


ELEVATION

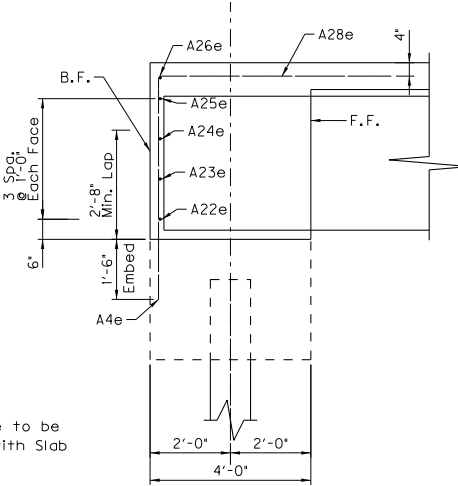
(Looking Back at End Bent 1)



Section D-D




Section E-E

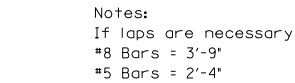


Section F-F

Note:
Diaphragm Concrete to be
Poured Monolithic with Slab

MI Denotes: 3~A27e Bars @ 1'-0" = 2'-0"

REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: J. CROSSLIN		A. EDELEN	
DETAILED BY: J. CROSSLIN		A. EDELEN	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS			
COUNTY			
ANDERSON			
ROUTE		CROSSING	
KY-44		Crooked Creek	
END BENT 1			
PREPARED BY		BRIDGING KENTUCKY	
AECOM			
		SHEET NO. S06	
		DRAWING NO. 28332	




I.D.	End Bent 2 EL.
A	659.48
B	662.71
C	662.78
D	662.70
E	662.48
F	667.57
G	667.19
H	667.29

Technical drawing of a bridge cross-section showing a concrete deck with reinforcement bars (A3e, A4e, A5e, A10e, A16e, A11e) and various elevation points (EL. A, B, C, D, E, F, G, H). The drawing includes dimensions for the deck width (6'-0"), height (3'-2 1/8"), and reinforcement spacing (1'-0").

SECTION A-A

SECTION B-B

SECTION C-C

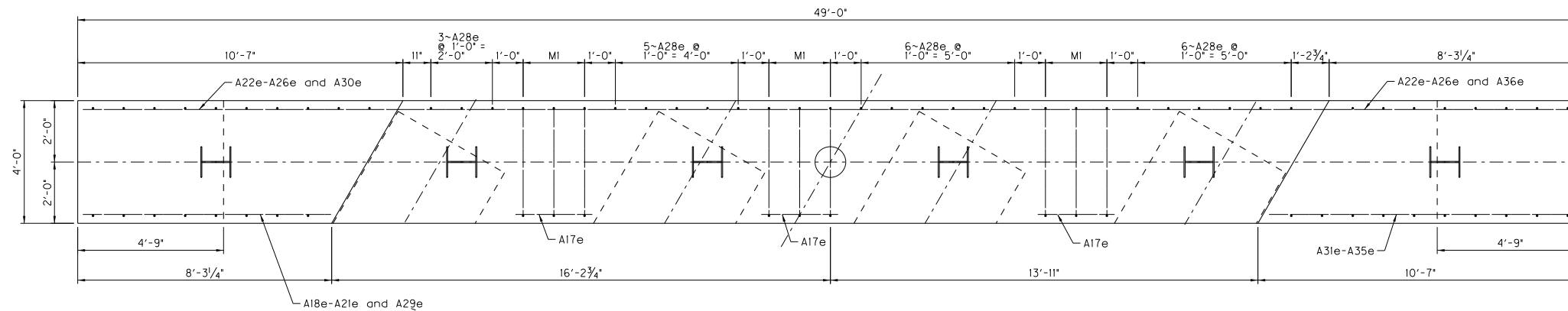
REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: J. CROSSLIN		A. EDELEN	
DETAILED BY: J. CROSSLIN		A. EDELEN	
<p align="center">Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</p>			
<p align="center">COUNTY ANDERSON</p>			
ROUTE KY--44		CROSSING Crooked Creek	
<p align="center">END BENT 2</p>			
<p align="center">PREPARED BY</p> <p align="center">AECOM</p>			
		<p align="center">SHEET NO. S07</p> <p align="center">DRAWING NO. 28332</p>	

FILE NAME: c:\pwworking\00251363\S08_End Bent.2b.dgn

USER: J. Crosslin
DATE PLOTTED: 4/9/2020 10:39:30 AM

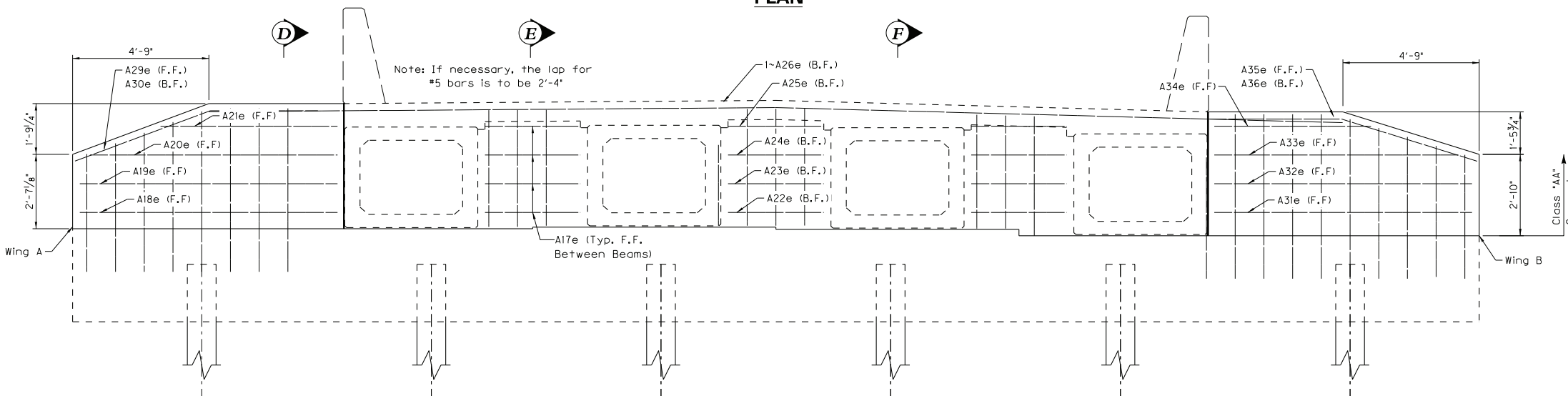
E-SHEET NAME:

MicroStation v8.11.9.714

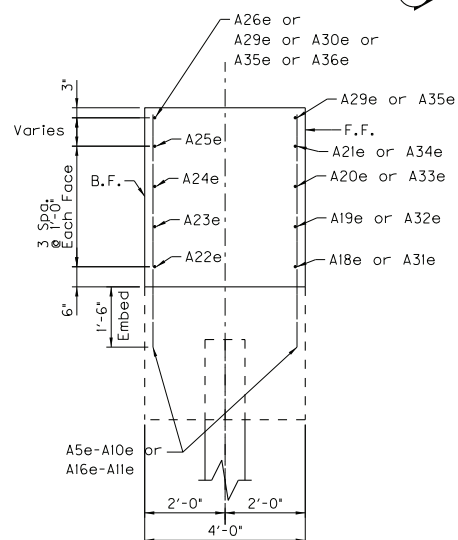


MI Denotes: 3~A27e Bars @ 1'-0" = 2'-0"

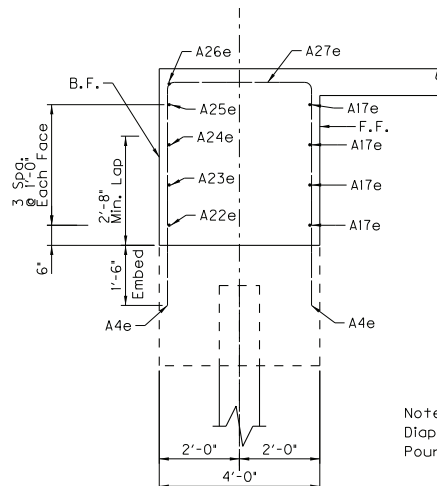
PLAN



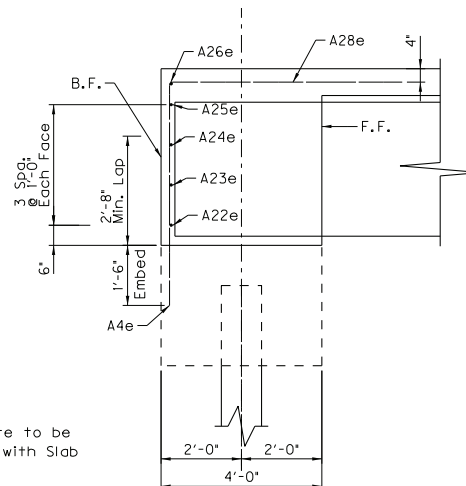
ELEVATION
(Looking Ahead at End Bent 2)



Section D-D




Section E-E



Section F-F

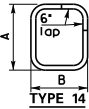
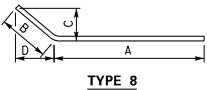
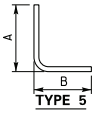
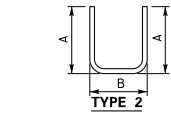
Note:
Diaphragm Concrete to be
Poured Monolithic with Slab

ITEM NUMBER
7-10020

REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: J. CROSSLIN		A. EDELEN	
DETAILED BY: J. CROSSLIN		A. EDELEN	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS			
COUNTY			
ANDERSON			
ROUTE		CROSSING	
KY-44		Crooked Creek	
END BENT 2			
PREPARED BY		BRIDGING KENTUCKY	
AECOM			
		SHEET NO.	
		S08	
		DRAWING	
		28332	

BILL OF REINFORCING PER END BENT

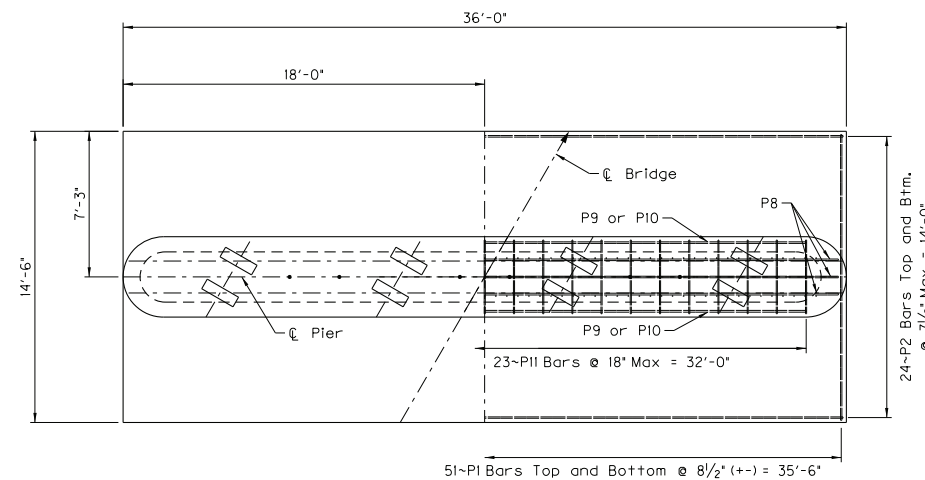
Mark	Type	NUMBER REQD.	SIZE	Length		LOCATION	a		b		c		d	
				ft	in		ft	in	ft	in	ft	in	ft	in
A1e	Str	9	8	48	8	Cap								
A2e	Str	4	5	48	8	Cap Sides								
A3e	14	43	5	13	6	Cap Stirrups	2	7	3	8				
A4e	Str	38	5	4	4	Cap Dowell								
A5e	Str	2	5	4	1	Wing A Vertical								
A6e	Str	2	5	4	5	Wing A Vertical								
A7e	Str	2	5	4	10	Wing A Vertical								
A8e	Str	2	5	5	2	Wing A Vertical								
A9e	Str	2	5	5	7	Wing A Vertical								
A10e	Str	8	5	5	8	Wing A Vertical								
A11e	Str	2	5	4	3	Wing B Vertical								
A12e	Str	2	5	4	7	Wing B Vertical								
A13e	Str	2	5	4	11	Wing B Vertical								
A14e	Str	2	5	5	3	Wing B Vertical								
A15e	Str	2	5	5	6	Wing B Vertical								
A16e	Str	8	5	5	5	Wing B Vertical								
A17e	Str	12	5	3	3.5	Diaphragm								
A18e	Str	1	5	8	0	Wing A Horizontal								
A19e	Str	1	5	8	0	Wing A Horizontal								
A20e	Str	1	5	7	8	Wing A Horizontal								
A21e	Str	1	5	5	3	Wing A Horizontal								
A22e	Str	1	5	48	8	Long Diaphragm Bars								
A23e	Str	1	5	48	8	Long Diaphragm Bars								
A24e	Str	1	5	47	11	Long Diaphragm Bars								
A25e	Str	1	5	43	2	Long Diaphragm Bars								
A26e	Str	1	5	39	2	Long Diaphragm Bars								
A27e	2	9	5	10	11	Diaphragm	3	8	3	7				
A28e	5	20	5	8	0.5	Diaphragm over Beams	4	0.5	4	0				
A29e	8	1	6	8	9	Wing A Top	5	0	3	9	1	9	3	6
A30e	8	1	6	8	9	Wing A Top	5	0	3	9	1	9	3	6
A31e	Str	1	5	10	0	Wing B Horizontal								
A32e	Str	1	5	10	0	Wing B Horizontal								
A33e	Str	1	5	9	7	Wing B Horizontal								
A34e	Str	1	5	6	5	Wing B Horizontal								
A35e	8	1	6	8	9	Wing B Top	5	0	3	9	1	9	3	6
A36e	8	1	6	8	9	Wing B Top	5	0	3	9	1	9	3	6



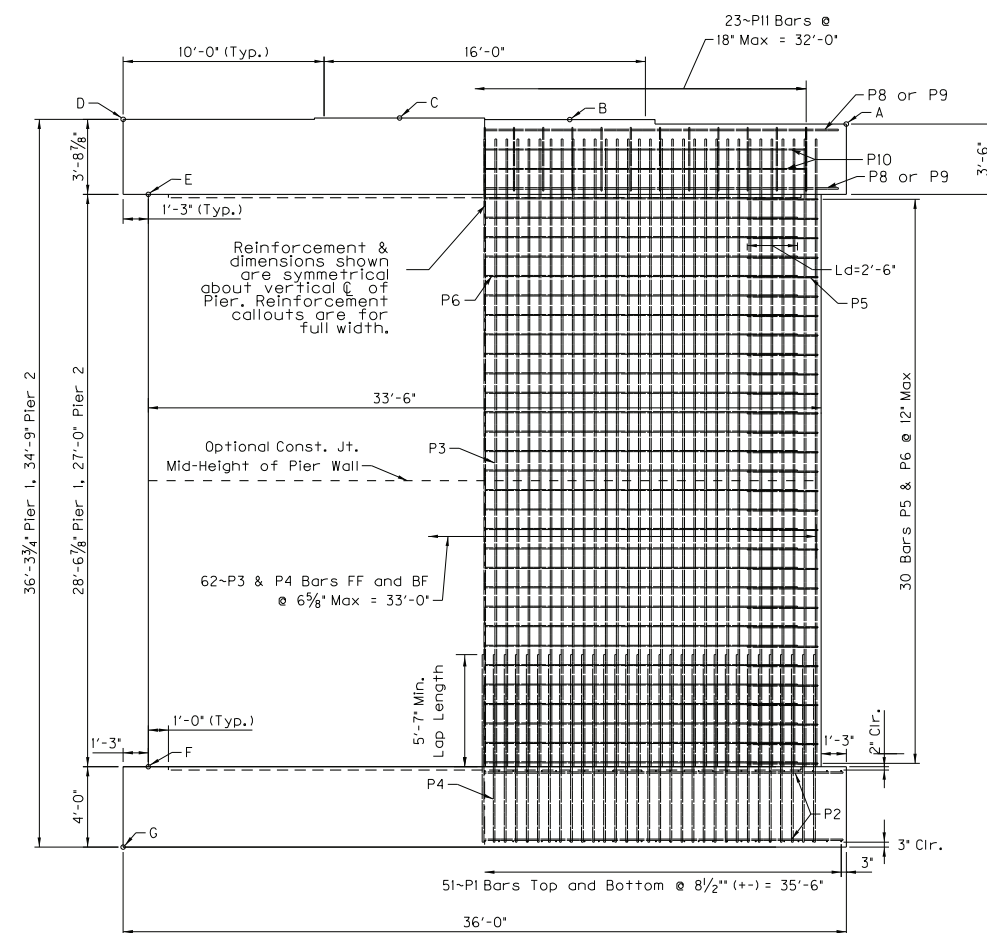
BAR TYPES

REVISION	
DATE	
DATE: 04/01/2020	CHECKED BY
DESIGNED BY: J. CROSSLIN	A. EDELEN
DETAILED BY: J. CROSSLIN	A. EDELEN
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY ANDERSON	
ROUTE KY-44	CROSSING Crooked Creek
END BENT 1 AND 2 BAR LIST	
PREPARED BY	
AECOM	
BRIDGING KENTUCKY	
SHEET NO. S09	
DRAWING NO. 28332	

ITEM NUMBER
7-10020

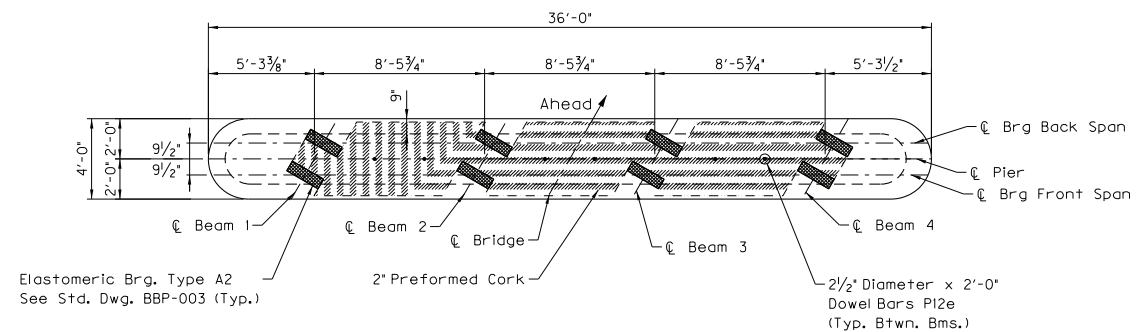


PLAN

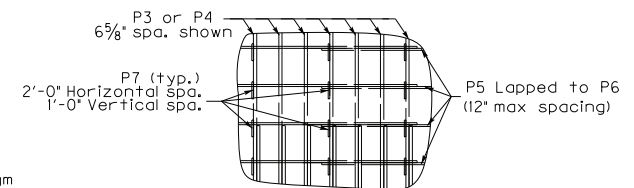


ELEVATION

(Looking Ahead)



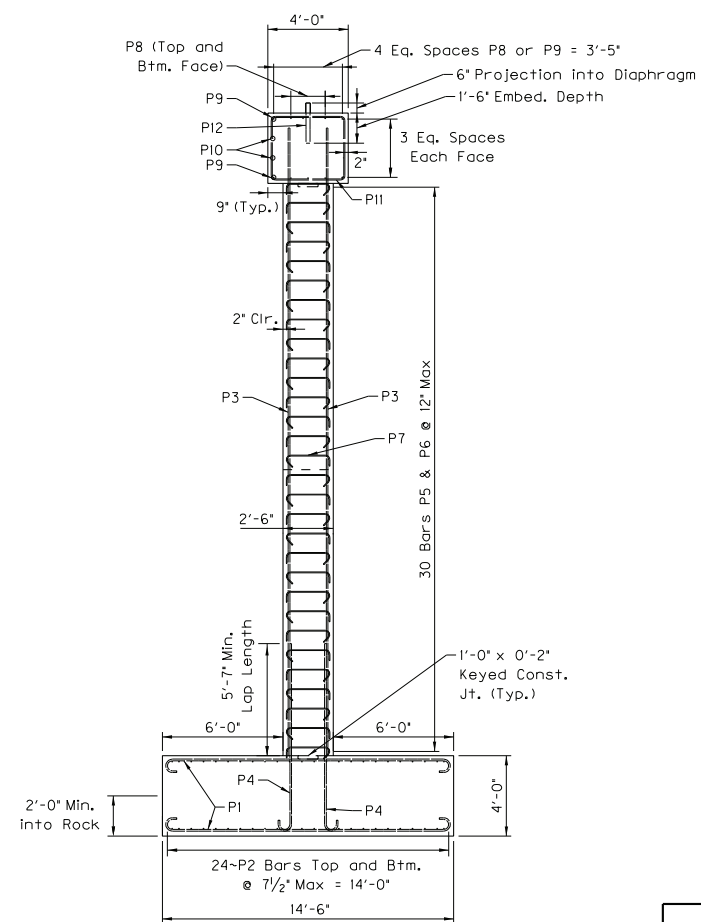
PLAN OF CAP (TYP.)



P7 BAR PLACEMENT



Elevations		
	Pler 1	Pler 2
A	665.11	663.5
B	665.34	663.7
C	665.41	663.8
D	665.35	663.7
E	661.61	660.0
F	633.00	633.0
G	629.00	629.0

Note: Consult with Engineer if Field Measurements show rock elevation at piers < 630.00'.



END ELEVATION

ITEM NUMBER
7-10020

REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: A. EDELEN		J. CROSSLIN	
DETAILED BY: A. EDELEN		J. CROSSLIN	
<p align="center">Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</p>			
<p align="center">COUNTY ANDERSON</p>			
ROUTE KY-44		CROSSING Crooked Creek	
<p align="center">PIER DETAILS</p>			
PREPARED BY 			
		SHEET NO. S10 DRAWING NO. 28332	

FILE NAME: c:\pwworking\00251363\SH\Pier_2.dgn

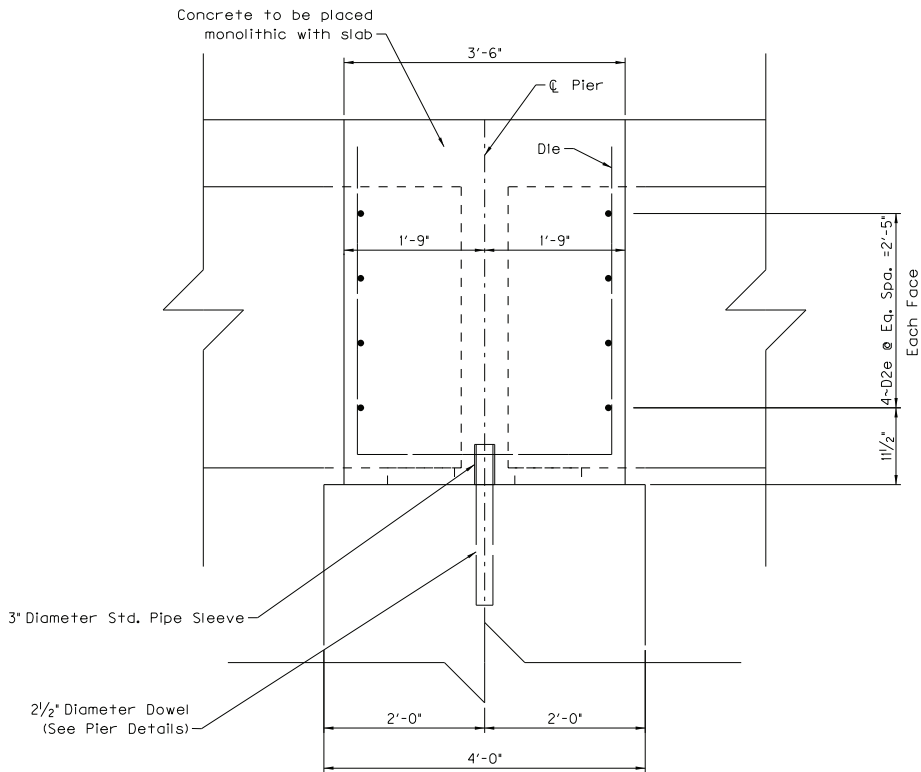
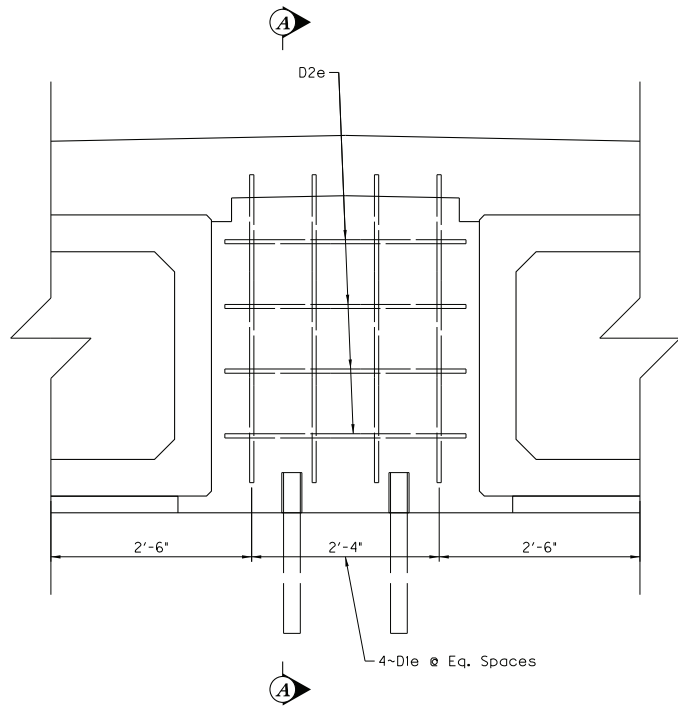
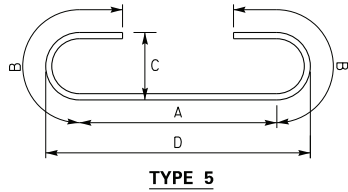
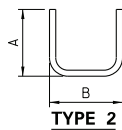
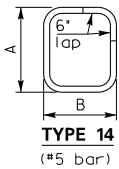
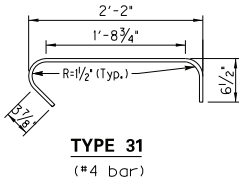
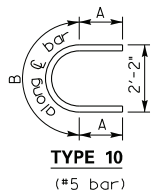
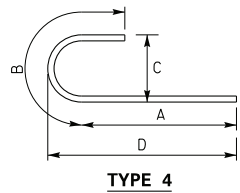
USER: Crosslin
DATE PLOTTED: 4/9/2020 10:40:24 AM

E-SHEET NAME:

MicroStation v8.11.3.714

BILL OF REINFORCEMENT - PIER 1														
Mark	Type	No.	Size	Length		Location	a		b		c		d	
				ft	in		ft	in	ft	in	ft	in		
P1	5	102	8	16	0	Footing	13	6	1	3	0	8	14	2
P2	STR	48	7	35	8	Footing								
P3	STR	124	8	31	3	Column								
P4	4	124	8	10	5	Column	9	0	1	5	0	8		
P5	10	60	5	8	4 3/4	Column	2	6	3	4 3/4			9	4
P6	STR	60	5	31	1 3/4	Column								
P7	31	450	4	3	3	Column								
P8	STR	6	8	35	2.5	Cap								
P9	STR	4	8	32	0	Cap								
P10	STR	5	4	32	0	Cap								
P11	14	23	5	14	8	Cap	3	2	3	8				
P12e	STR	6	•	2	0	Cap/Diaphragm								
D1e	2	12	5	11	10	Diaphragm	3	10	3	8				
D2e	STR	24	5	3	0	Diaphragm								



• Denotes: P12e - 2 1/2" Smooth Round Bar.
May be Commercial Grade Steel,
Epoxy Coated



Diaphragm Notes:
1) Diaphragm stirrups are to project into the slab regardless of slab forming method.
2) Place stirrup bars parallel to face of beams.

BILL OF REINFORCEMENT - PIER 2														
Mark	Type	No.	Size	Length		Location	a		b		c		d	
				ft	in		ft	in	ft	in	ft	in		
P1	5	102	8	16	0	Footing	13	6	1	3	0	8	14	2
P2	STR	48	7	35	8	Footing								
P3	STR	124	8	29	9	Column								
P4	4	124	8	10	5	Column	9	0	1	5	0	8	9	4
P5	10	60	5	8	4 3/4	Column	2	6	3	4 3/4				
P6	STR	60	5	31	1 1/4	Column								
P7	31	450	4	3	3	Column								
P8	STR	6	8	35	2.5	Cap								
P9	STR	4	8	32	0	Cap								
P10	STR	5	4	32	0	Cap								
P11	14	23	5	14	8	Cap	3	2	3	8				
P12e	STR	6	*	2	0	Cap/Diaphragm								
D1e	2	12	5	11	4	Diaphragm	3	10	3	8				
D2e	STR	24	5	3	0	Diaphragm								

ITEM NUMBER
7-10020

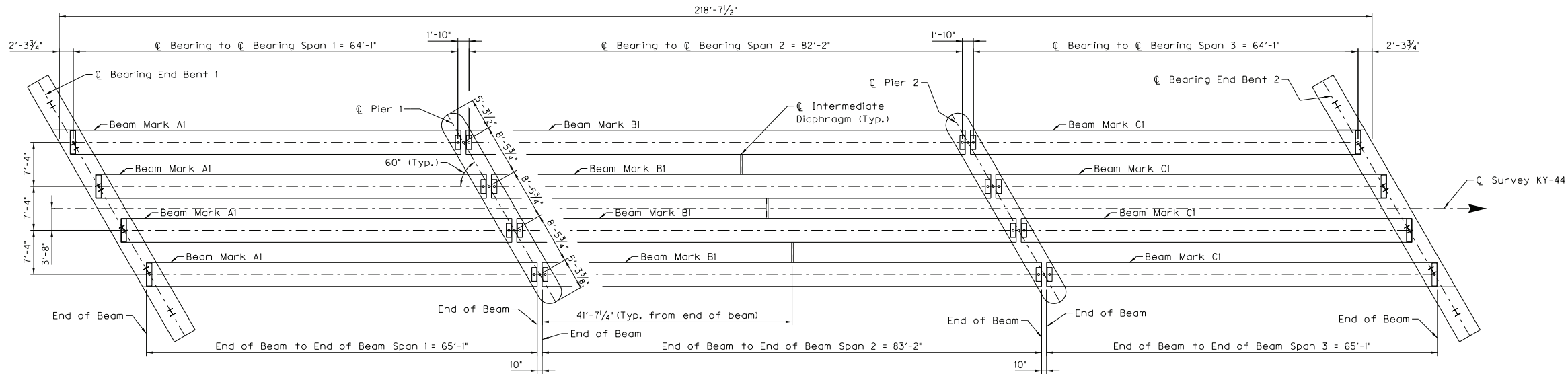
REVISION		DATE
DATE: 04/01/2020	CHECKED BY	
DESIGNED BY: A. EDELEN	J. CROSSLIN	
DETAILED BY: A. EDELEN	J. CROSSLIN	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY		
ANDERSON		
ROUTE	CROSSING	
KY-44	Crooked Creek	
PIER DETAILS		
PREPARED BY		SHEET NO. S11
		DRAWING NO. 28332

FILE NAME: c:\pwworking\00251363\S12_framing.plan.dgn

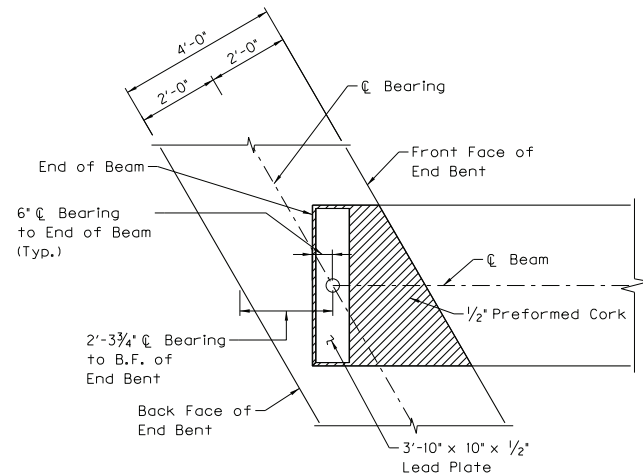
USER: Crosslin
DATE PLOTTED: 4/9/2020 10:40:43 AM

E-SHEET NAME:

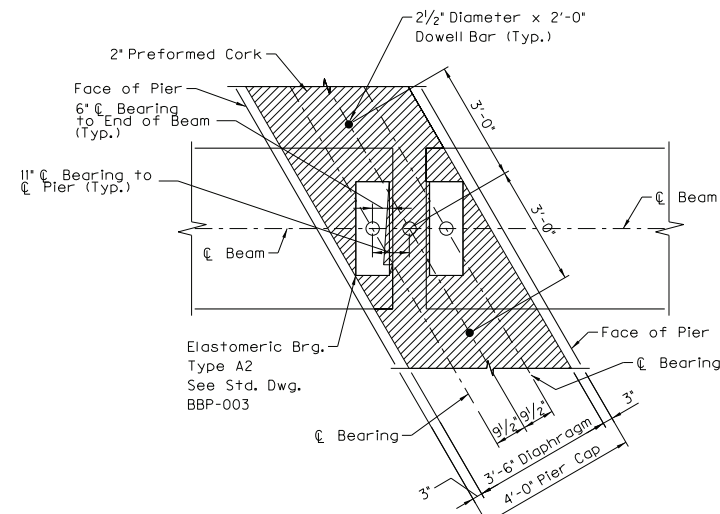
MicroStation v8.11.9.714



FRAMING PLAN



END OF BEAM DETAIL
(At End Bents)



PIERS 1 AND 2
BEARING DETAIL

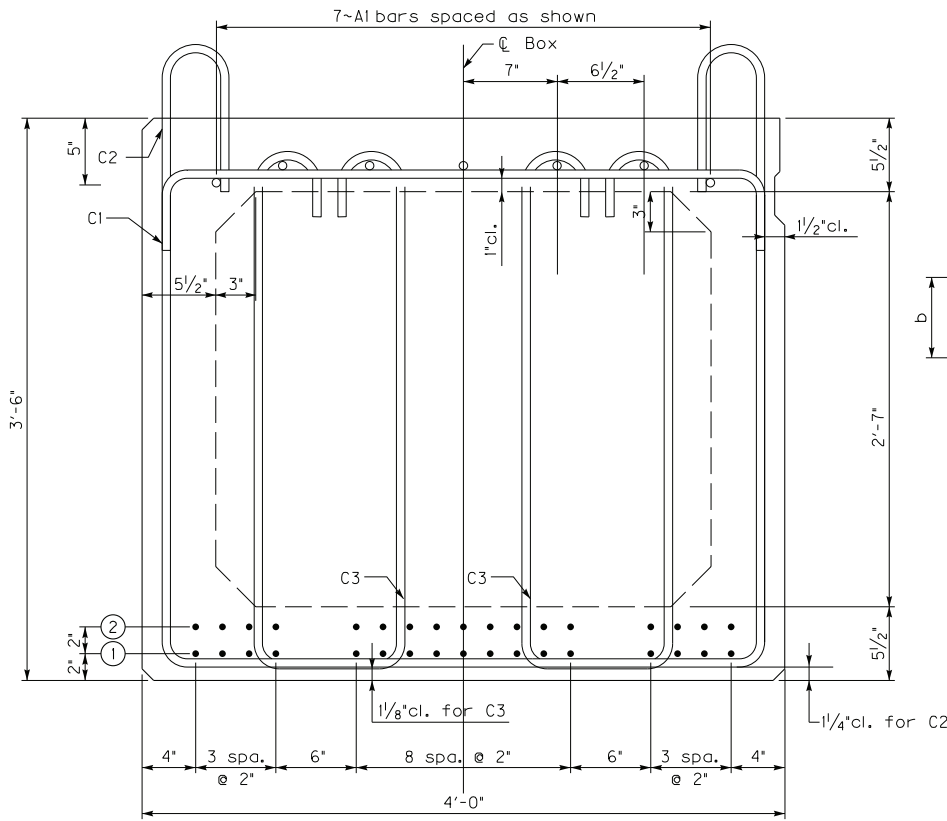
ITEM NUMBER
7-10020

FILE NAME: c:\pwworking\0251363\513.Box Beam Details.dgn

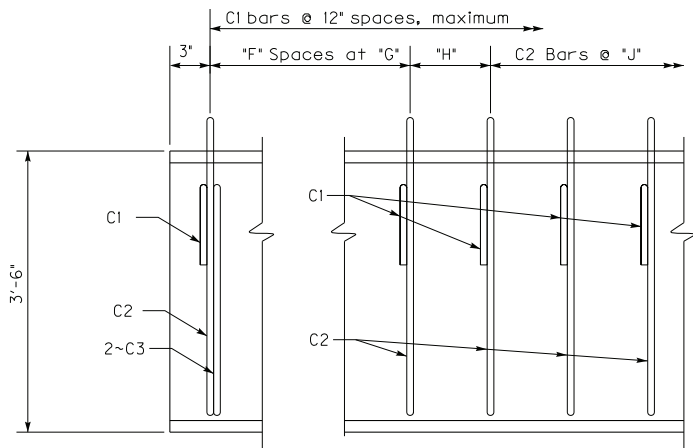
USER: Crosslin
DATE PLOTTED: 4/9/2020 10:40:59 AM

E-SHEET NAME:

MicroStation v8.11.9.714



SB42 BEAM



SB42 ELEVATION OF 0° SKEW
(Refer to BDP-003, for skewed details)

TABLE OF STRAND DATA

MARK	Beam Type	Beam Length	Number of Strands Required			TABLE OF DIMENSION DATA				CONCRETE STRENGTHS (psi)		MAX ALLOWABLE CAMBER (in)	APPROXIMATE WEIGHT (lbs)
			Row ①	Row ②	Row ③	"F"	"G"	"H"	"J"	f'ci	f'c		
A1	SB42	65'-1"	15	0	0	20	6"	9.5"	12"	5500	7000	2.0	59454
B1	SB42	83'-2"	17	2	0	20	6"	10"	12"	5500	7000	2.0	75973
C1	SB42	65'-1"	15	0	0	20	6"	9.5"	12"	5500	7000	2.0	59454

TABLE OF DIMENSION DATA

"F"	"G"	"H"	"J"
20	6"	9.5"	12"
20	6"	10"	12"
20	6"	9.5"	12"

CONCRETE STRENGTHS (psi)

f'ci	f'c
5500	7000
5500	7000
5500	7000

MAX ALLOWABLE CAMBER (in)

2.0
2.0
2.0

APPROXIMATE WEIGHT (lbs)

59454
75973
59454

BAR QUANTITIES TABLE

Mark	C1	C2	C3
A1	66	86	4
B1	84	104	4
C1	66	86	4

Straight Reinforcement

Mark	Bar	Size	Number	Length
A1	A1(e)	#5	7	64'-7"
B1	A1(e)	#5	7	82'-8"
C1	A1(e)	#5	7	64'-7"

Bent Reinforcement

Bar	Size	a	b
C1(e)	#5	3'-9"	6"
C2(e)	#5	3'-9"	3'-10"
C3(e)	#5	0'-11 3/8"	3'-2 3/8"

C1(e) Bar

C2(e)-C3(e) Bars

GENERAL NOTES

CONCRETE: Ensure prestressed girder concrete is in accordance with these plans and the specifications.

MATERIALS DESIGN SPECIFICATIONS: For prestressed beams:
FY = 60,000 psi F'S = 270,000 psi

PRESTRESSING REINFORCEMENT: Ensure that strands are 1/2" oversize (0.167 sq. in.), uncoated seven-wire stress relieved, low-relaxation conforming to AASHTO M 203, Grade 270. Billing of the cost for redesign of beam and subsequent plan modifications will be made for any request of alternate strand type of arrangement. The designer of the original plans is responsible for the billing and work.

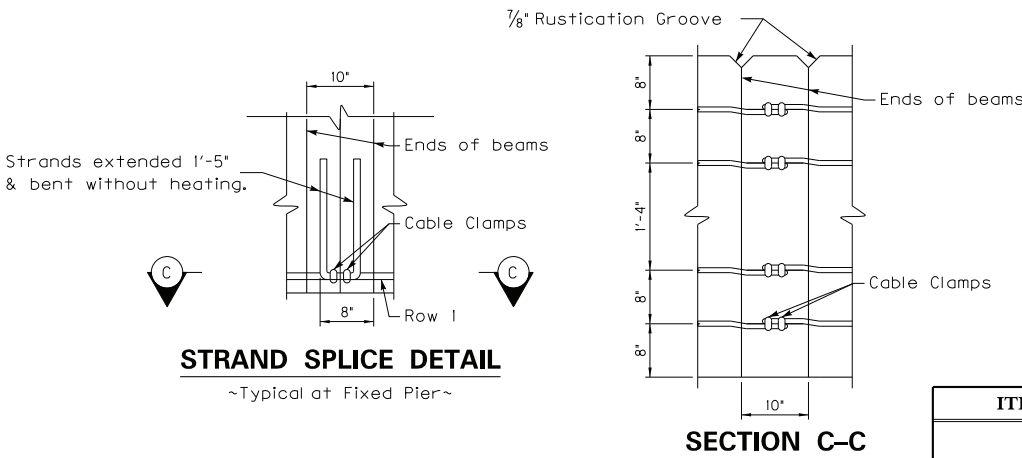
CONSTRUCTION METHOD: Pretension all beams. Ensure concrete has attained f'ci (shown in the table) in standard test cylinders that are made and cured identically with the beams without bond stresses being transferred to the concrete or releasing the end anchors. Attain f'c (shown in the table) at or prior to 28 days. Apply an initial force of 33,817 lbs. per low-relaxation strand to develop a stress of 202,500 psi. No beam will be accepted that is honeycombed to the extent that strength of the beam or resistance to deterioration has been affected. An allowance of 0.0005L is made for shortening of beams due to shrinkage and elastic change. Show a detensioning plan by sequential numbering of the strand pattern on the shop plans.

LIFTING DEVICES: Detail lifting devices on the shop plans. Loads are to be distributed equally to each device.

BEARING DEVICES: Include the price for lead plates and/or bearing pads and any necessary galvanized metal shims in the bid for precast beams.

FABRICATION: 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. If the measured camber is greater than the "Maximum Allowable Camber" the contractor will be responsible for any necessary adjustments to assure a minimum slab thickness of eight (8) inches as shown in the plans. This work will be considered incidental to the completion of the structure and have the approval of the Engineer.

REINFORCEMENT: Dimensions shown from the face of concrete to reinforcement are clear distances. Spacing of reinforcement is from center to center of reinforcement. Epoxy Coated Reinforcement shall be in accordance with Section 811.10 of the Specifications. All bars marked "C" shall be considered a stirrup for purposes of bend diameters.




STRAND SPLICE DETAIL

~Typical at Fixed Pier~

SECTION C-C

ITEM NUMBER

7-10020

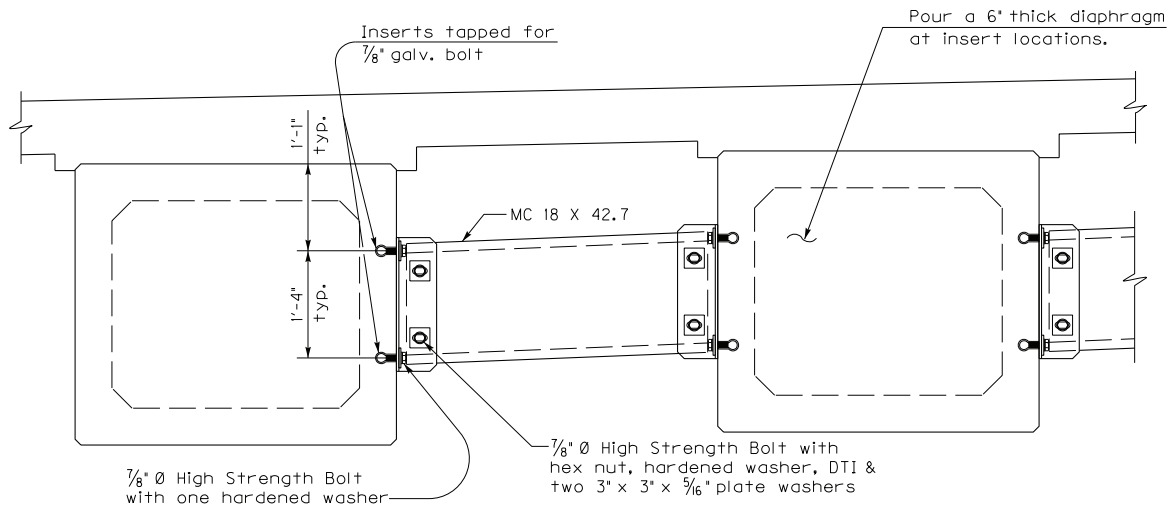
REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: A. EDELEN		J. CROSSLIN	
DETAILED BY: A. EDELEN		J. CROSSLIN	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS			
COUNTY ANDERSON			
ROUTE KY-44		CROSSING Crooked Creek	
SB42 BOX BEAM DETAILS			
PREPARED BY AECOM			SHEET NO. S13
		DRAWING NO. 28332	

FILE NAME: c:\pwworking\00251363\S14_box_beam_intermediate.dia.dgn

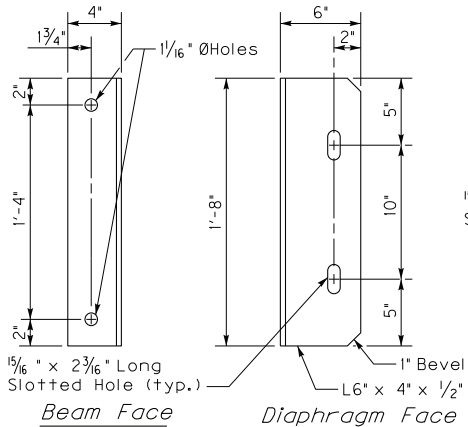
USER: J. Crosslin
DATE PLOTTED: 4/9/2020 10:41:15 AM

E-SHEET NAME:

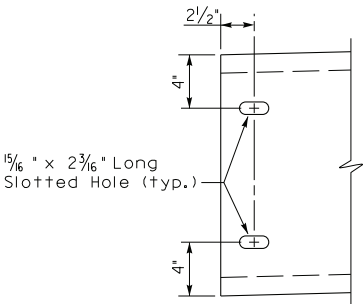
MicroStation v8.11.3.714



INTERMEDIATE DIAPHRAGM
~Typical for SB-42 Beams~



CLIP ANGLE



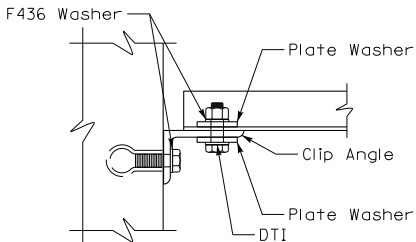
CHANNEL END

Diaphragm Notes

CONNECTIONS: Ensure all bolted connections are ASTM A325, 7/8 inch diameter high strength bolts, nuts, and washers, mechanically zinc coated in accordance with AASHTO M298, for Class 50. Install all high strength bolted field connections using 'direct tension indicators' (DTI's) in accordance with the Standard Specifications and ASTM F959. Ensure all DTI's are mechanically zinc coated. Show installation details of the DTI's on the shop plans. Place DTI's under the bolt head.

STRUCTURAL STEEL: Ensure plates, angles, and channels conform to ASTM A36 or A572 and galvanized after fabrication.

DIAPHRAGMS: Erect the diaphragms the same day that the precast beams are placed on the substructure. Include the cost of all materials and labor required to fabricate and erect the diaphragms in the bid for Precast Beams.



CONNECTION DETAILS

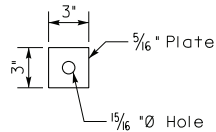



PLATE WASHER

ITEM NUMBER
7-10020

REVISION		DATE
DATE: 04/01/2020	CHECKED BY	
DESIGNED BY: J. CROSSLIN	A. EDELEN	
DETAILED BY: J. CROSSLIN	A. EDELEN	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY ANDERSON		
ROUTE KY-44	CROSSING Crooked Creek	
INTERMEDIATE DIAPHRAGM DETAILS		
PREPARED BY AECOM		SHEET NO. S14
		DRAWING NO. 28332

MicroStation v8.11.9.714


PLAN OF SLAB

TYPICAL SECTION

TYPICAL CORNER REINFORCING DETAIL

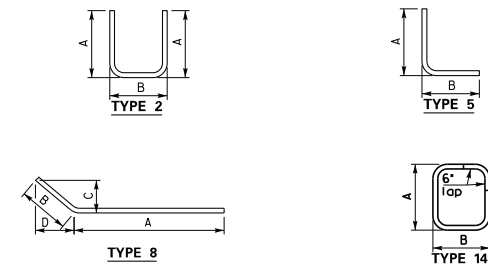
Left Gutter Sta.	Right Gutter Sta.
41+31.51	41+45.78
41+64.51	41+78.78
41+99.51	42+13.78
42+19.51	42+33.78
42+39.51	42+53.78
42+74.51	42+88.78
43+07.51	43+21.78

ITEM NUMBER
7-10020



REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: J. CROSSLIN		A. EDELEN	
DETAILED BY: J. CROSSLIN		A. EDELEN	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY ANDERSON			
ROUTE KY-44		CROSSING Crooked Creek	
<i>SUPERSTRUCTURE</i>			
PREPARED BY AECOM		BRIDGING KENTUCKY 	
		SHEET NO. S15 DRAWING NO. 28332	

BILL OF REINFORCEMENT FOR SLAB

Mark	Type	NUMBER	SIZE	Length		LOCATION	a		b		c		d	
		REQD.		ft	in		ft	in	ft	in	ft	in		
S01e	Str.	248	5	60	0	Slab Top and Bot. Long.								
S02e	Str.	248	5	41	7	Slab Top and Bot. Long.								
S03e	Str.	124	5	33	0	Slab Top and Bot. Long.								
S04e	Str.	814	5	25	8	Slab Top and Bot. Trans								
S05e	Str.	2	5	1	1.875	Slab Top and Bot. Trans								
S06e	Str.	2	5	2	0.25	Slab Top and Bot. Trans								
S07e	Str.	2	5	2	10.625	Slab Top and Bot. Trans								
S08e	Str.	2	5	3	9	Slab Top and Bot. Trans								
S09e	Str.	2	5	4	7.375	Slab Top and Bot. Trans								
S10e	Str.	2	5	5	5.75	Slab Top and Bot. Trans								
S11e	Str.	2	5	6	4.125	Slab Top and Bot. Trans								
S12e	Str.	2	5	7	2.5	Slab Top and Bot. Trans								
S13e	Str.	2	5	8	0.875	Slab Top and Bot. Trans								
S14e	Str.	2	5	8	11.25	Slab Top and Bot. Trans								
S15e	Str.	2	5	9	9.75	Slab Top and Bot. Trans								
S16e	Str.	2	5	10	8.125	Slab Top and Bot. Trans								
S17e	Str.	2	5	11	6.5	Slab Top and Bot. Trans								
S18e	Str.	2	5	12	4.875	Slab Top and Bot. Trans								
S19e	Str.	2	5	13	3.25	Slab Top and Bot. Trans								
S20e	Str.	2	5	14	1.625	Slab Top and Bot. Trans								
S21e	Str.	2	5	15	0	Slab Top and Bot. Trans								
S22e	Str.	2	5	15	10.375	Slab Top and Bot. Trans								
S23e	Str.	2	5	16	8.75	Slab Top and Bot. Trans								
S24e	Str.	2	5	17	7.25	Slab Top and Bot. Trans								
S25e	Str.	2	5	18	5.625	Slab Top and Bot. Trans								
S26e	Str.	2	5	19	4	Slab Top and Bot. Trans								
S27e	Str.	2	5	20	2.375	Slab Top and Bot. Trans								
S28e	Str.	2	5	21	0.75	Slab Top and Bot. Trans								
S29e	Str.	2	5	21	11.125	Slab Top and Bot. Trans								
S30e	Str.	2	5	22	9.5	Slab Top and Bot. Trans								
S31e	Str.	2	5	23	7.875	Slab Top and Bot. Trans								
S32e	Str.	2	5	24	6.25	Slab Top and Bot. Trans								
S33e	Str.	2	5	25	4.75	Slab Top and Bot. Trans								
S34e	Str.	2	5	24	11	Slab Top and Bot. Trans								
S35e	Str.	2	5	24	0.5	Slab Top and Bot. Trans								
S36e	Str.	2	5	23	2.125	Slab Top and Bot. Trans								
S37e	Str.	2	5	22	3.75	Slab Top and Bot. Trans								
S38e	Str.	2	5	21	5.375	Slab Top and Bot. Trans								
S39e	Str.	2	5	20	7	Slab Top and Bot. Trans								
S40e	Str.	2	5	19	8.625	Slab Top and Bot. Trans								
S41e	Str.	2	5	18	10.25	Slab Top and Bot. Trans								
S42e	Str.	2	5	17	11.875	Slab Top and Bot. Trans								
S43e	Str.	2	5	17	1.5	Slab Top and Bot. Trans								
S44e	Str.	2	5	16	3	Slab Top and Bot. Trans								
S45e	Str.	2	5	15	4.625	Slab Top and Bot. Trans								
S46e	Str.	2	5	14	6.25	Slab Top and Bot. Trans								
S47e	Str.	2	5	13	7.875	Slab Top and Bot. Trans								
S48e	Str.	2	5	12	9.5	Slab Top and Bot. Trans								
S49e	Str.	2	5	11	11.125	Slab Top and Bot. Trans								
S50e	Str.	2	5	11	0.75	Slab Top and Bot. Trans								
S51e	Str.	2	5	10	2.375	Slab Top and Bot. Trans								
S52e	Str.	2	5	9	4	Slab Top and Bot. Trans								
S53e	Str.	2	5	8	5.5	Slab Top and Bot. Trans								
S54e	Str.	2	5	7	7.125	Slab Top and Bot. Trans								
S55e	Str.	2	5	6	8.75	Slab Top and Bot. Trans								
S56e	Str.	2	5	5	10.375	Slab Top and Bot. Trans								
S57e	Str.	2	5	5	0	Slab Top and Bot. Trans								
S58e	Str.	2	5	4	1.625	Slab Top and Bot. Trans								
S59e	Str.	2	5	3	3.25	Slab Top and Bot. Trans								
S60e	Str.	2	5	2	4.875	Slab Top and Bot. Trans								
S61e	Str.	2	5	1	6.5	Slab Top and Bot. Trans								
S62e	Str	36	6	10	0	Slab Corner								



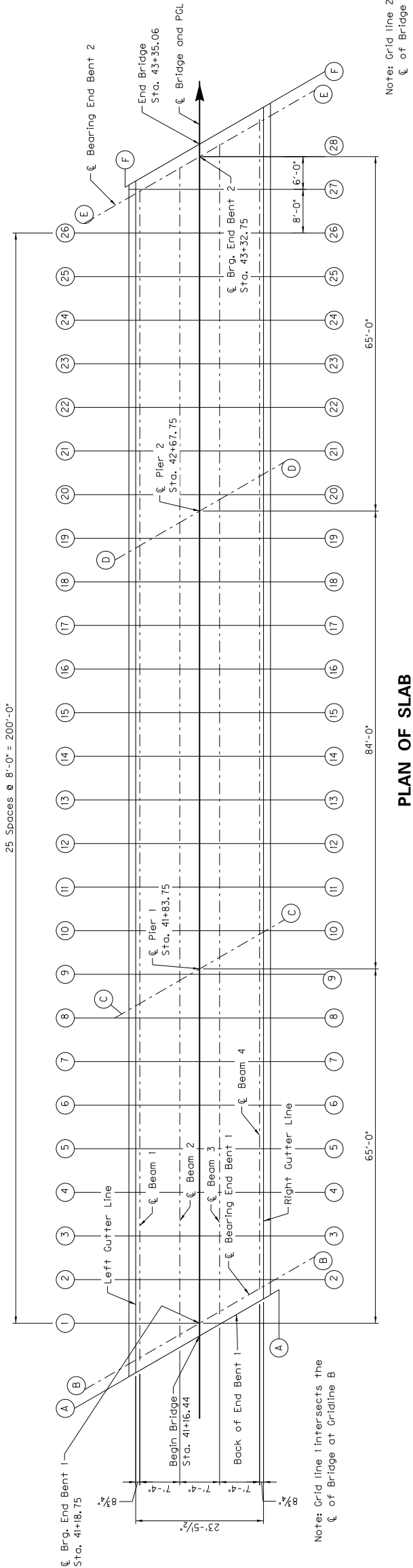
BAR TYPES

REVISION		DATE	
DATE: 04/01/2020		CHECKED BY	
DESIGNED BY: J. CROSSLIN		A. EDELEN	
DETAILED BY: J. CROSSLIN		A. EDELEN	
<p align="center">Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS</p>			
<p align="center">COUNTY ANDERSON</p>			
ROUTE KY-44		CROSSING Crooked Creek	
SUPER STRUCTURE BAR LIST			
PREPARED BY 			
		SHEET NO. S16 DRAWING NO. 28332	

ITEM NUMBER
7-10020



ITEM NUMBER	PREPARED BY	 <small>Bridging a Rural to Upland</small>	SHEET NO.
7-10020			 DRAWING NO. 28332



PLAN OF SLAB

CONSTRUCTION ELEVATIONS

Line	CONST. EL.	LT Gutter	G1	G2	G3	G4	CONST. EL.	RT Gutter
A-A	671.095	671.101	671.101	671.160	671.162	671.080	670.855	670.833
B-B	671.046	671.052	671.052	671.116	671.119	671.038	670.813	670.790
C-C	669.838	669.845	669.845	669.913	669.917	669.835	669.610	669.588
D-D	668.284	668.291	668.291	668.359	668.363	668.281	668.056	668.034
E-E	667.082	667.089	667.089	667.157	667.160	667.079	666.854	666.831
F-F	667.039	667.046	667.046	667.114	667.117	667.036	666.811	666.789
1	670.392	670.396	670.396	671.082	671.119	669.922	669.704	669.687
2	670.794	670.808	670.808	670.866	670.867	670.786	670.560	670.542
3	670.651	670.665	670.665	670.806	670.847	670.655	669.432	669.414
4	670.519	670.519	670.519	670.660	670.702	670.515	669.300	669.282
5	670.356	670.371	670.371	670.513	670.555	670.370	669.166	669.148
6	670.205	670.220	670.220	670.364	670.407	670.223	669.032	669.014
7	670.049	670.065	670.065	670.213	670.256	670.074	668.898	668.880
8	669.895	669.901	669.901	670.056	670.101	669.922	668.764	668.746
9	669.755	669.768	669.768	669.897	669.937	669.816	668.630	668.612
10	669.632	669.645	669.645	669.781	669.816	669.601	668.496	668.478
11	669.499	669.513	669.513	669.653	669.693	669.486	668.362	668.344
12	669.359	669.373	669.373	669.517	669.556	669.342	668.228	668.210
13	669.214	669.229	669.229	669.374	669.415	669.271	668.094	668.076
14	669.066	669.081	669.081	669.228	669.270	669.079	667.960	667.942
15	668.915	668.930	668.930	669.079	669.122	668.933	667.826	667.808
16	668.759	668.774	668.774	668.926	668.970	668.784	667.692	667.674
17	668.597	668.613	668.613	668.768	668.813	668.632	667.558	667.540
18	668.425	668.442	668.442	668.602	668.643	668.474	667.424	667.406
19	668.256	668.269	668.269	668.425	668.476	668.308	667.290	667.272
20	668.124	668.138	668.138	668.276	668.314	668.132	667.156	667.138
21	667.984	667.998	667.998	668.139	668.179	667.966	667.022	667.004
22	667.840	667.854	667.854	667.995	668.037	667.832	666.888	666.870
23	667.692	667.707	667.707	667.849	667.891	667.704	666.754	666.736
24	667.543	667.558	667.558	667.701	667.743	667.509	666.620	666.602
25	667.391	667.406	667.406	667.551	667.594	667.352	666.486	666.468
26	667.233	667.248	667.248	667.398	667.443	667.261	666.352	666.334
27	667.075	667.090	667.090	667.240	667.285	667.107	666.218	666.200
28	666.917	666.932	666.932	667.082	667.160	666.923	666.084	666.066

REVISION		CHECKED BY		DATE
DESIGNED BY:	J. CROSSLIN	A. EDELEN		
DETAILED BY:	J. CROSSLIN	A. EDELEN		
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS				
COUNTY				
ANDERSON				
ROUTE		CROSSING		
KY-44		Crooked Creek		

CONSTRUCTION ELEVATIONS 2	
PREPARED BY	
AECOM	
BRIDGING KENTUCKY	
SHEET NO. 518	
DRAWING NO. 28332	

ITEM NUMBER
7-10020