



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

July 10, 2017

CALL NO. 307
CONTRACT ID NO. 171233
ADDENDUM # 1

Subject: Knott County, FD04 060 0899 PEDBRID
Letting July 28, 2017

(1) Revised - Proposal - Pages 1-54 of 54

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in black ink that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:ks
Enclosures



An Equal Opportunity Employer M/F/D



CALL NO. 307

CONTRACT ID. 171233

KNOTT COUNTY

FED/STATE PROJECT NUMBER FD04 060 0899 PEDBRID

DESCRIPTION ALICE LLOYD COLLEGE PEDESTRIAN BRIDGE (KY 899)

WORK TYPE BRIDGE

PRIMARY COMPLETION DATE 48 WORKING DAYS

LETTING DATE: July 28,2017

Sealed Bids will be received electronically through the Bid Express bidding service until 10:00 AM EASTERN DAYLIGHT TIME July 28,2017. Bids will be publicly announced at 10:00 AM EASTERN DAYLIGHT TIME.

NO PLANS ASSOCIATED WITH THIS PROJECT.

REQUIRED BID PROPOSAL GUARANTY: Not less than 5% of the total bid.

TABLE OF CONTENTS

PART I	SCOPE OF WORK
	<ul style="list-style-type: none">• PROJECT(S), COMPLETION DATE(S), & LIQUIDATED DAMAGES• CONTRACT NOTES• STATE CONTRACT NOTES• SPECIAL NOTE(S) APPLICABLE TO PROJECT• RIGHT OF WAY NOTES• UTILITY IMPACT & RAIL CERTIFICATION NOTES• COMMUNICATING ALL PROMISES
PART II	SPECIFICATIONS AND STANDARD DRAWINGS
	<ul style="list-style-type: none">• SPECIFICATIONS REFERENCE• SUPPLEMENTAL SPECIFICATION• [SN-11C] DRILLED SHAFTS
PART III	EMPLOYMENT, WAGE AND RECORD REQUIREMENTS
	<ul style="list-style-type: none">• LABOR AND WAGE REQUIREMENTS• EXECUTIVE BRANCH CODE OF ETHICS• KENTUCKY EQUAL EMPLOYMENT OPPORTUNITY ACT OF 1978 LOCALITY / STATE• PROJECT WAGE RATES / STATE
PART IV	INSURANCE
PART V	BID ITEMS

PART I
SCOPE OF WORK

ADMINISTRATIVE DISTRICT - 12

REVISED ADDENDUM #1: 7-10-17

CONTRACT ID - 171233

FD04 060 0899 PEDBRID

COUNTY - KNOTT

PCN - DE06008991733

FD04 060 0899 PEDBRID

ALICE LLOYD COLLEGE PEDESTRIAN BRIDGE (KY 899) PEDESTRIAN BRIDGE OVER KY 899 FROM THE
ENTRANCE OF ALICE LLOYD COLLEGE TO THE PARKING LOTS BRIDGE SYP NO. 12-08802.00.

GEOGRAPHIC COORDINATES LATITUDE 37:20:18.00 LONGITUDE 82:52:15.00

COMPLETION DATE(S):

48 WORKING Days

APPLIES TO ENTIRE CONTRACT

CONTRACT NOTES

PROPOSAL ADDENDA

All addenda to this proposal must be applied when calculating bid and certified in the bid packet submitted to the Kentucky Department of Highways. Failure to use the correct and most recent addenda may result in the bid being rejected.

BID SUBMITTAL

Bidder must use the Department's Expedite Bidding Program available on the Internet web site of the Department of Highways, Division of Construction Procurement. (www.transportation.ky.gov/construction-procurement)

The Bidder must download the bid file located on the Bid Express website (www.bidx.com) to prepare a bid packet for submission to the Department. The bidder must submit electronically using Bid Express.

JOINT VENTURE BIDDING

Joint venture bidding is permissible. All companies in the joint venture must be prequalified in one of the work types in the Qualifications for Bidders for the project. The bidders must get a vendor ID for the joint venture from the Division of Construction Procurement and register the joint venture as a bidder on the project. Also, the joint venture must obtain a digital ID from Bid Express to submit a bid. A joint bid bond of 5% may be submitted for both companies or each company may submit a separate bond of 5%.

UNDERGROUND FACILITY DAMAGE PROTECTION

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. When prescribed in said directives, the contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom shall be contacted through their individual Protection Notification Center. Non-compliance with these directives can result in the enforcement of penalties.

SPECIAL NOTE FOR COMPOSITE OFFSET BLOCKS

Contrary to the Standard Drawings (2016 edition) the Cabinet will allow 6" composite offset blocks in lieu of wooden offset blocks, except as specified on proprietary end treatments and crash cushions. The composite blocks shall be selected from the Cabinet's List of Approved Materials.

REGISTRATION WITH THE SECRETARY OF STATE BY A FOREIGN ENTITY

Pursuant to KRS 176.085(1)(b), an agency, department, office, or political subdivision of the Commonwealth of Kentucky shall not award a state contract to a person that is a foreign entity required by [KRS 14A.9-010](#) to obtain a certificate of authority to transact business in the Commonwealth (“certificate”) from the Secretary of State under [KRS 14A.9-030](#) unless the person produces the certificate within fourteen (14) days of the bid or proposal opening. If the foreign entity is not required to obtain a certificate as provided in [KRS 14A.9-010](#), the foreign entity should identify the applicable exception. Foreign entity is defined within [KRS 14A.1-070](#).

For all foreign entities required to obtain a certificate of authority to transact business in the Commonwealth, if a copy of the certificate is not received by the contracting agency within the time frame identified above, the foreign entity’s solicitation response shall be deemed non-responsive or the awarded contract shall be cancelled.

Businesses can register with the Secretary of State at <https://secure.kentucky.gov/sos/ftbr/welcome.aspx>.

SPECIAL NOTE FOR PROJECT QUESTIONS DURING ADVERTISEMENT

Questions about projects during the advertisement should be submitted in writing to the Division of Construction Procurement. This may be done by fax (502) 564-7299 or email to kytc.projectquestions@ky.gov. The Department will attempt to answer all submitted questions. The Department reserves the right not to answer if the question is not pertinent or does not aid in clarifying the project intent.

The deadline for posting answers will be 3:00 pm Eastern Daylight Time, the day preceding the Letting. Questions may be submitted until this deadline with the understanding that the later a question is submitted, the less likely an answer will be able to be provided.

The questions and answers will be posted for each Letting under the heading “Questions & Answers” on the Construction Procurement website (www.transportation.ky.gov/contract). The answers provided shall be considered part of this Special Note and, in case of a discrepancy, will govern over all other bidding documents.

HARDWOOD REMOVAL RESTRICTIONS

The US Department of Agriculture has imposed a quarantine in Kentucky and several surrounding states, to prevent the spread of an invasive insect, the emerald ash borer. Hardwood cut in conjunction with the project may not be removed from the state. Chipping or burning on site is the preferred method of disposal.

INSTRUCTIONS FOR EXCESS MATERIAL SITES AND BORROW SITES

Identification of excess material sites and borrow sites shall be the responsibility of the Contractor. The Contractor shall be responsible for compliance with all applicable state and federal laws and may wish to consult with the US Fish and Wildlife Service to seek protection under Section 10 of the Endangered Species Act for these activities.

ACCESS TO RECORDS

The contractor, as defined in KRS 45A.030 (9) agrees that the contracting agency, the Finance and Administration Cabinet, the Auditor of Public Accounts, and the Legislative Research Commission, or their duly authorized representatives, shall have access to any books, documents, papers, records, or other evidence, which are directly pertinent to this contract for the purpose of financial audit or program review. Records and other prequalification information confidentially disclosed as part of the bid process shall not be deemed as directly pertinent to the contract and shall be exempt from disclosure as provided in KRS 61.878(1)(c). The contractor also recognizes that any books, documents, papers, records, or other evidence, received during a financial audit or program review shall be subject to the Kentucky Open Records Act, KRS 61.870 to 61.884.

In the event of a dispute between the contractor and the contracting agency, Attorney General, or the Auditor of Public Accounts over documents that are eligible for production and review, the Finance and Administration Cabinet shall review the dispute and issue a determination, in accordance with Secretary's Order 11-004.

06/01/16

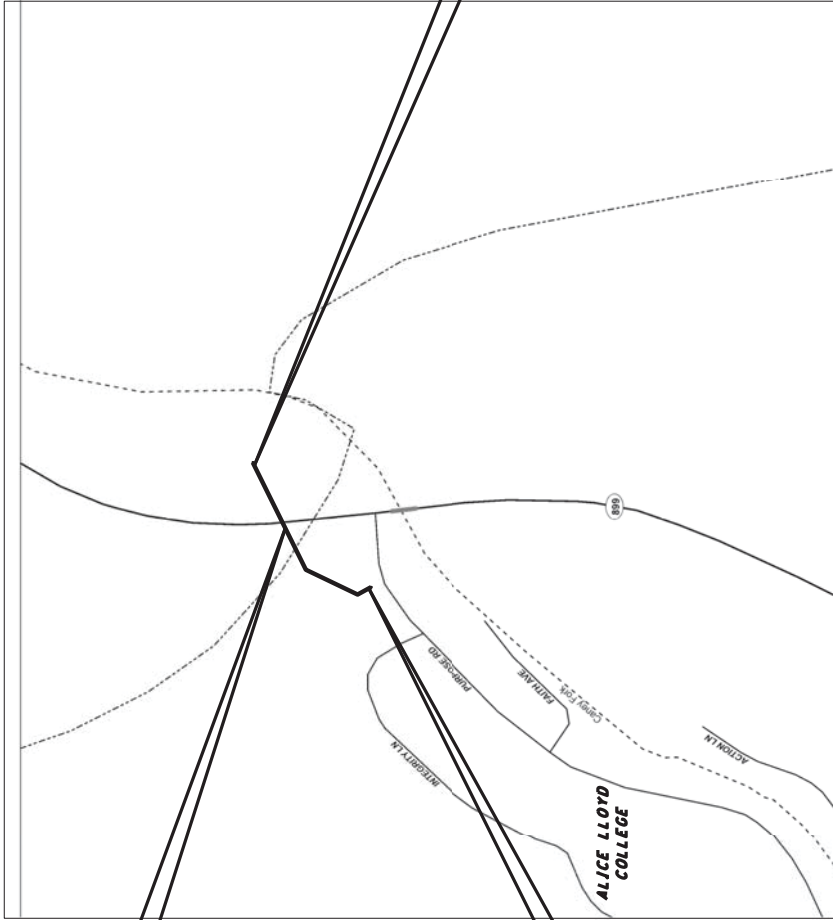
SPECIAL NOTE FOR RECIPROCAL PREFERENCE

Reciprocal preference to be given by public agencies to resident bidders

By reference, KRS 45A.490 to 45A.494 are incorporated herein and in compliance regarding the bidders residency. Bidders who want to claim resident bidder status should complete the Affidavit for Claiming Resident Bidder Status along with their bid in the Expedite Bidding Program. Submittal of the Affidavit should be done along with the bid in Bid Express.

03/01/2011

COUNTY OF	ITEM NO.	SHEET NO.
KNOTT	12-0802	R1



STA. 12+01.81
CONSTRUCT 113'2"
TRUSS BRIDGE
WITH ACCESS STAIRS

STA. 10+53.58
BEGIN CONSTRUCTION

STA. 12+90.55
END CONSTRUCTION

LAYOUT MAP
NOT TO SCALE
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT
KNOTT COUNTY
ALICE LLOYD PEDESTRIAN BRIDGE
OVER KY 899

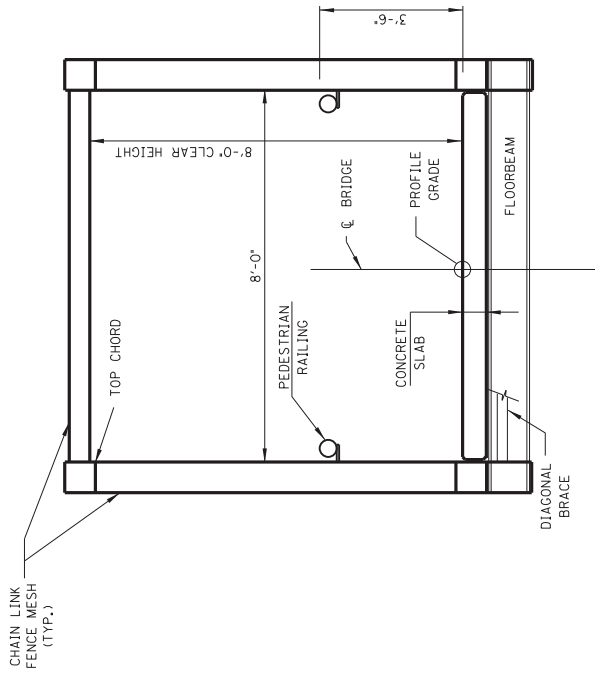
STANDARD DRAWINGS
RDP-001-05
RDP-002-09
RDX-210-03
RDX-220-05
RDY-225-01
RDX-040-03
RDX-200-01
RPM-170-09

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
R1	LAYOUT SHEET
R2	TYPICAL SECTION
R20	GENERAL SUMMARY
R3	GENERAL NOTES
R4	RIGHT OF WAY STRIP MAP
R5	MAINTENANCE OF TRAFFIC
R6-R8	UTILITY RELOCATION AS-BUILT PLANS
S1-S8	STRUCTURE PLANS

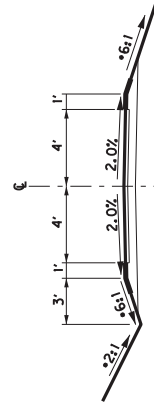
COUNTY OF	ITEM NO.	SHEET NO.
KNOTT	12-0802	R2

PEDESTRIAN PATH & BRIDGE TYPICAL SECTIONS



TYPICAL SECTION

PEDESTRIAN BRIDGE
STA. 11 + 00.65 TO STA. 12 + 85.56



PATH
STA. 10 + 53.58 TO STA. 11 + 00.65
Sta. 12 + 85.56 TO STA. 12 + 90.55

REVISED ADDENDUM #1: 7-10-17

PATH - CONCRETE
4" DEPTH

NOTES:
*SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.

COUNTY OF	ITEM NO.	SHEET NO.
KNOTT	12-0802	R3

GENERAL & SPECIAL NOTES

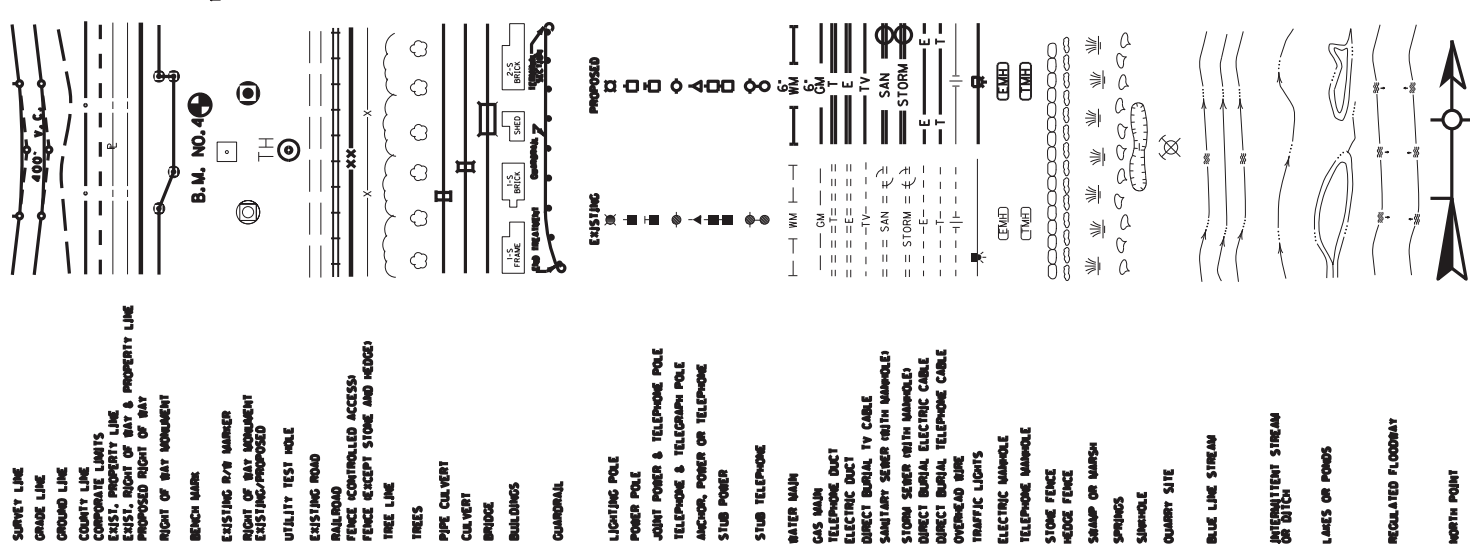
BEFORE YOU DIG

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) DAYS 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.

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)564-3670.

CONVENTIONAL SIGNS



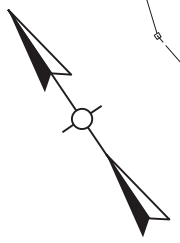
BEFORE YOU DIG

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.

LEGEND WITH NOTES

REVISED ADDENDUM #1: 7-10-17

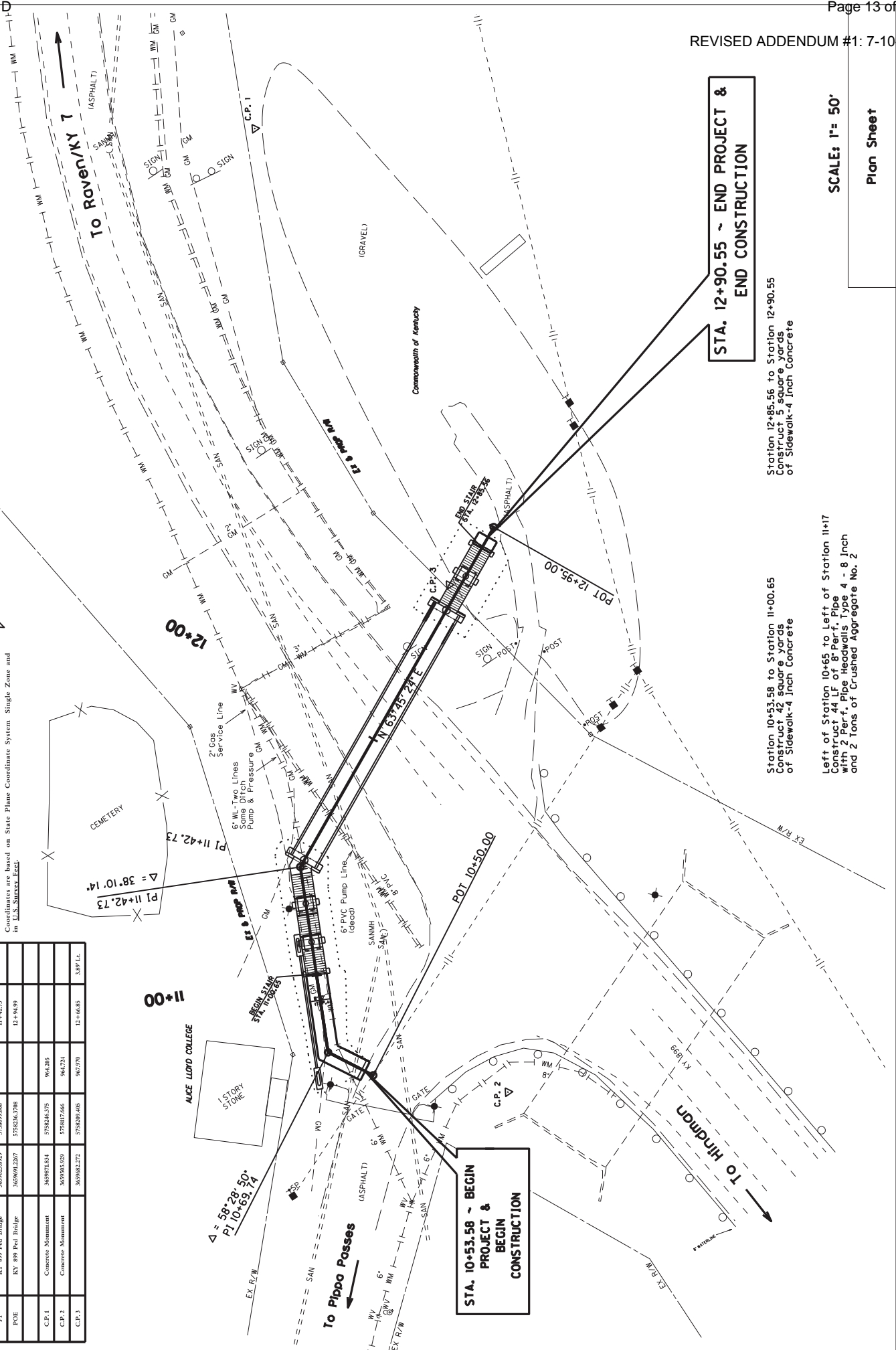
COUNTY OF	KNOTT
ITEM NO.	12-0802
SHEET NO.	R4



BASIS OF ELEVATIONS
Elevations were derived from GPS methods and are adjusted to the NAVD88 Vertical Datum. Grid model used was Geoid12A.

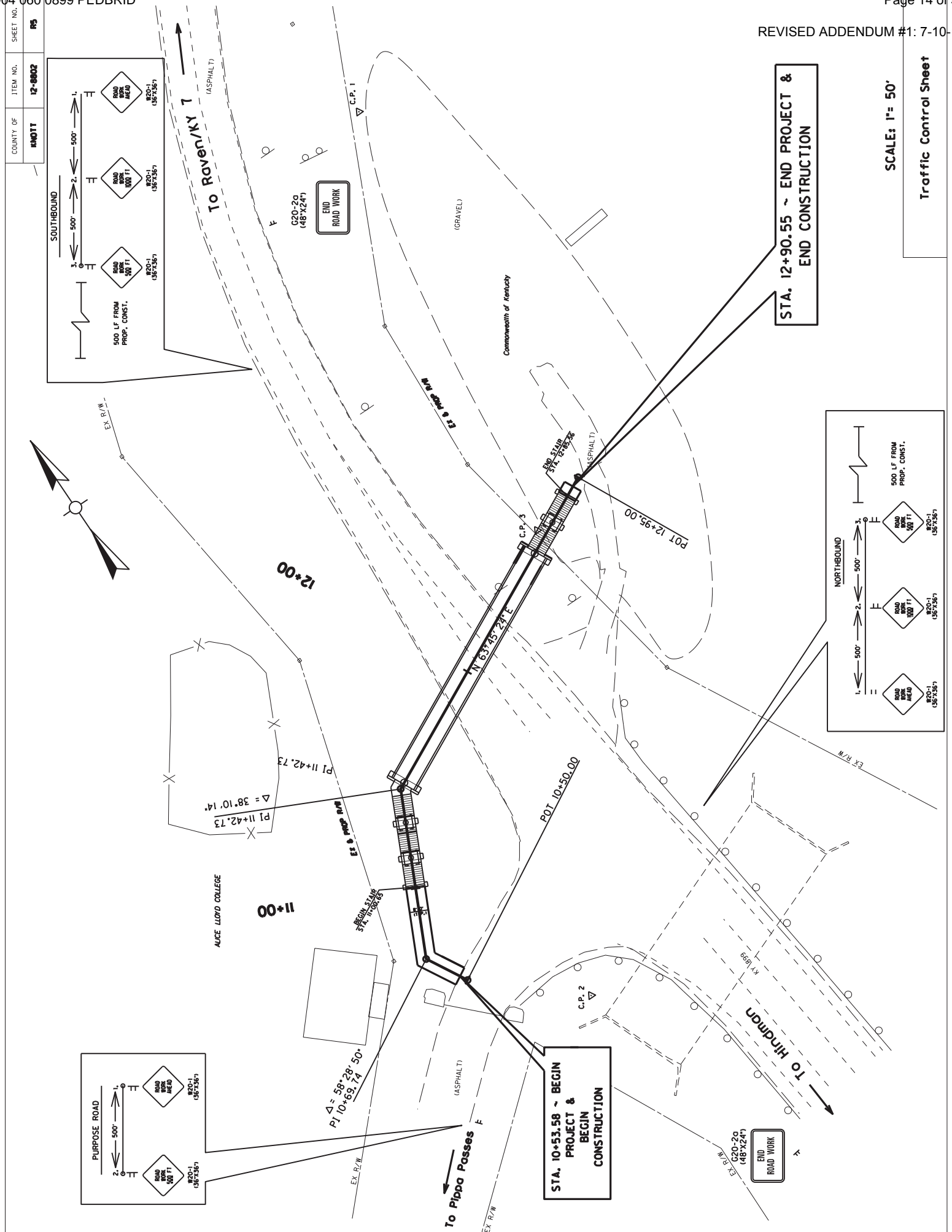
COORDINATE SYSTEM
Coordinates for horizontal control were obtained from GPS methods and adjusted to the National NAD83/FEN System.
Coordinates are based on State Plane Coordinate System Single Zone and in U.S. SURVEY FEET.

COORDINATE CONTROL POINTS						
Point	Description	North (N)	East (E)	Elev. (Z)	Station	Offset
POB	KY 899 Ped Bridge	36595807768	57580774302		10+50.00	
PI	KY 899 Ped Bridge	36595806909	57580623899		10+69.74	
PI	KY 899 Ped Bridge	36596233829	57580992688		11+42.73	
POE	KY 899 Ped Bridge	36596012307	57582625708		12+94.99	
C.P. 1	Concrete Monument	3659621884	57582463375	964.305		
C.P. 2	Concrete Monument	3659605529	5758107666	964.524		
C.P. 3	Concrete Monument	365962272	5758209485	967.970	12+66.85	3.89' LL

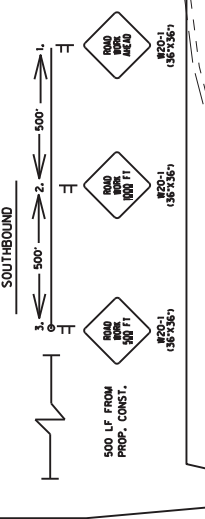


SCALE: 1"= 50'
Plan Sheet

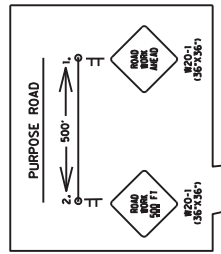
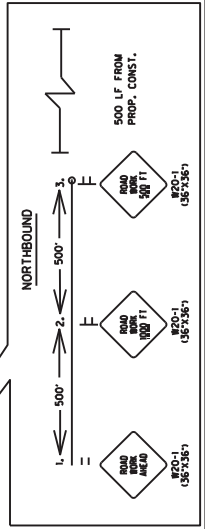
REVISED ADDENDUM #1: 7-10-17



COUNTY OF	KNOTT
ITEM NO.	12-8802
SHEET NO.	R5



STA. 12+90.55 ~ END PROJECT & END CONSTRUCTION



STA. 10+53.58 ~ BEGIN PROJECT & BEGIN CONSTRUCTION

SCALE: 1"= 50'

Traffic Control Sheet

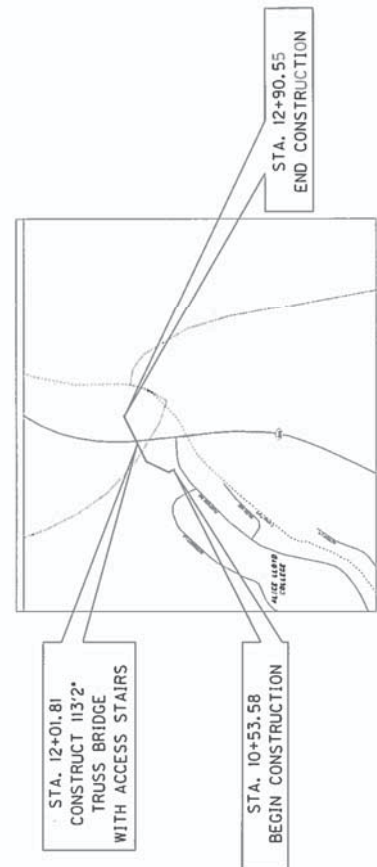
COUNTY OF	ITEM NO.	SHEET NO.
KNOTT	12-8802	RS

COUNTY OF	ITEM NO.	SHEET NO.
KNOTT	12-8802.00	R

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

PLANS OF
PROPOSED PROJECT

KNOTT COUNTY
PEDESTRIAN BRIDGE OVER KY 899
AT ALICE LLOYD COLLEGE



*Knott County Water & Sewer District
(As-Builts)*

INDEX OF SHEETS
SHEET NO. _____
DESCRIPTION _____
TYPICAL SECTIONS _____
PLAN SHEET _____
SHEETS NOT INCLUDED IN TOTAL SHEETS _____

STANDARD DRAWINGS
NUMBER _____

DESIGN CRITERIA
CLASS OF HIGHWAY COLLECTOR _____
TYPE OF TERRAIN MOUNTAINOUS _____
DESIGN SPEED _____
REQUIRED RPSD _____
REQUIRED RSD _____
ADT PRESENT 1 _____
ADT FUTURE 1 _____
DIV _____
D % _____
T % _____
GEOGRAPHIC COORDINATES
LATITUDE 37 DEGREES 30 MINUTES 17 SECONDS NORTH _____
LONGITUDE 83 DEGREES 32 MINUTES 15 SECONDS WEST _____
DESIGNED
2. RESTRICTED 50 _____
LEVEL OF SERVICE _____
MAX. DISTANCE W/O PASSING _____

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF KNOTT
ITEM NO. 12-8802.00
PROJECT NO. FD04-060 0899 PEDBRID
LETTING DATE: _____
REVISION NO. _____ PROJECT MANAGER _____ DATE _____
PLAN APPROVED BY: _____ TITLE/COMPANY/ADDRESS _____ DATE _____

PROJECT LENGTH	LENGTH 236.82	IN. FT.	0.0000	MILES _____
	FOR EQUALITIES	IN. FT.	0.0000	MILES _____
	RAILROAD CROSSINGS NO.	IN. FT.	0.0000	MILES _____
	BRIDGES	IN. FT.	0.0000	MILES _____

REVISED ADDENDUM #1: 7-10-17

COUNTY OF	KNOTT
ITEM NO.	12-0802
SHEET NO.	R7

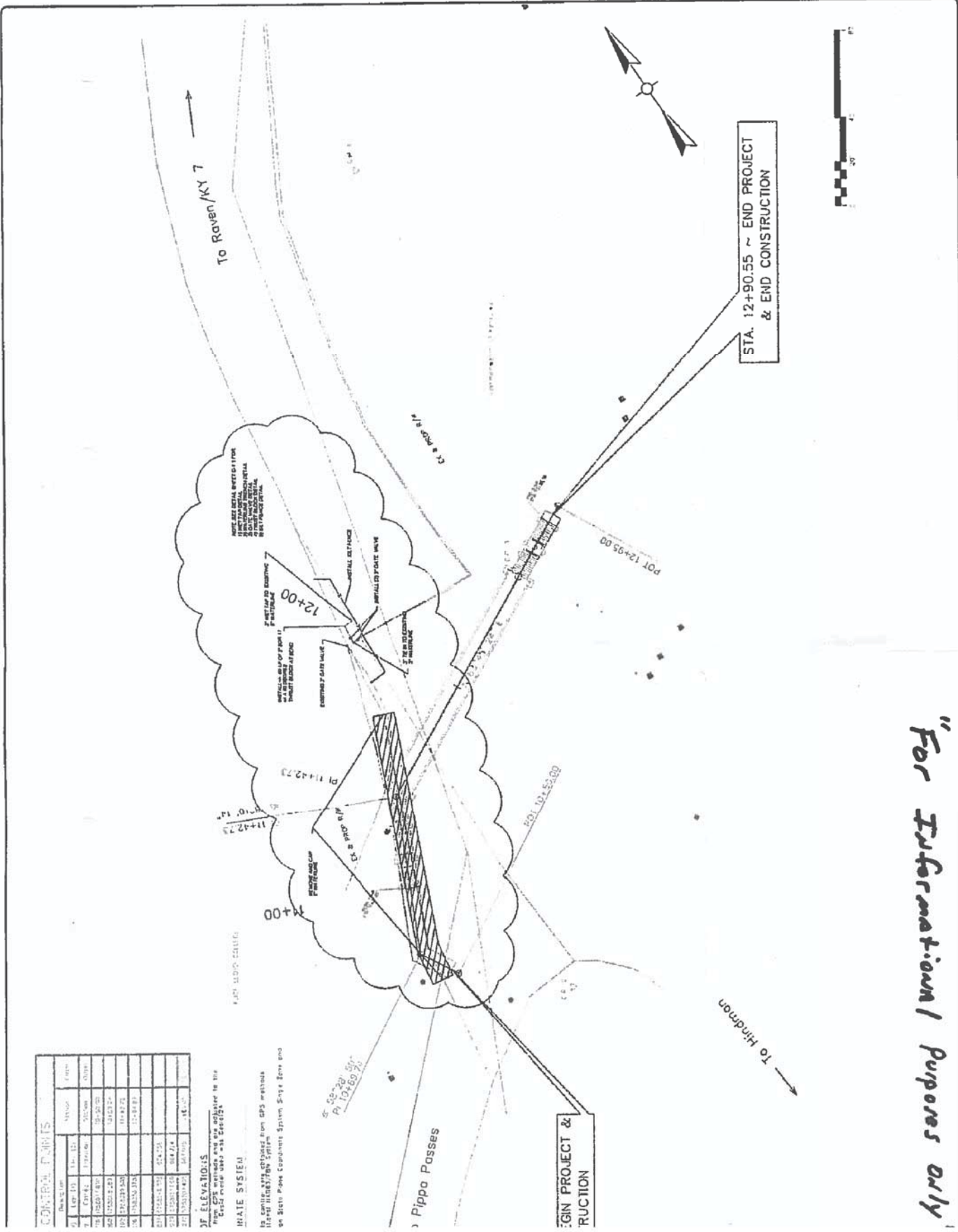
RMJE
R.M. JOHNSON ENGINEERING, INC.
3113 S. Highway 1, Knoxville, TN 37918
Tel: 615-586-1100
Fax: 615-586-1101

PIPPA PASSES
WATERLINE RELOCATION PROJECT
for
KNOTT COUNTY WATER & SEWER DISTRICT

SCALE	1" = 10'
JOB NO.	12-016
DESIGNED BY	MA
CHECKED BY	MA
DATE	8-8-2016
PROJECT	02017

SHEET
C-1

AS-BUILT WATER LINE PLANS



CONTROL POINTS

Point ID	Station	Elevation	Notes
1	11+00.00	551.00	Existing
2	11+00.00	551.00	Existing
3	11+00.00	551.00	Existing
4	11+00.00	551.00	Existing
5	11+00.00	551.00	Existing
6	11+00.00	551.00	Existing
7	11+00.00	551.00	Existing
8	11+00.00	551.00	Existing
9	11+00.00	551.00	Existing
10	11+00.00	551.00	Existing
11	11+00.00	551.00	Existing
12	11+00.00	551.00	Existing
13	11+00.00	551.00	Existing
14	11+00.00	551.00	Existing
15	11+00.00	551.00	Existing
16	11+00.00	551.00	Existing
17	11+00.00	551.00	Existing
18	11+00.00	551.00	Existing
19	11+00.00	551.00	Existing
20	11+00.00	551.00	Existing
21	11+00.00	551.00	Existing
22	11+00.00	551.00	Existing
23	11+00.00	551.00	Existing
24	11+00.00	551.00	Existing
25	11+00.00	551.00	Existing
26	11+00.00	551.00	Existing
27	11+00.00	551.00	Existing
28	11+00.00	551.00	Existing
29	11+00.00	551.00	Existing
30	11+00.00	551.00	Existing

NOTE: All elevations are relative to the datum shown on the title sheet.
All elevations are relative to the datum shown on the title sheet.
All elevations are relative to the datum shown on the title sheet.

"For Informational Purposes only"

COUNTY OF	ITEM NO.	SHEET NO.
KNOTT	12-0802	18

PROPOSED

REVISIONS

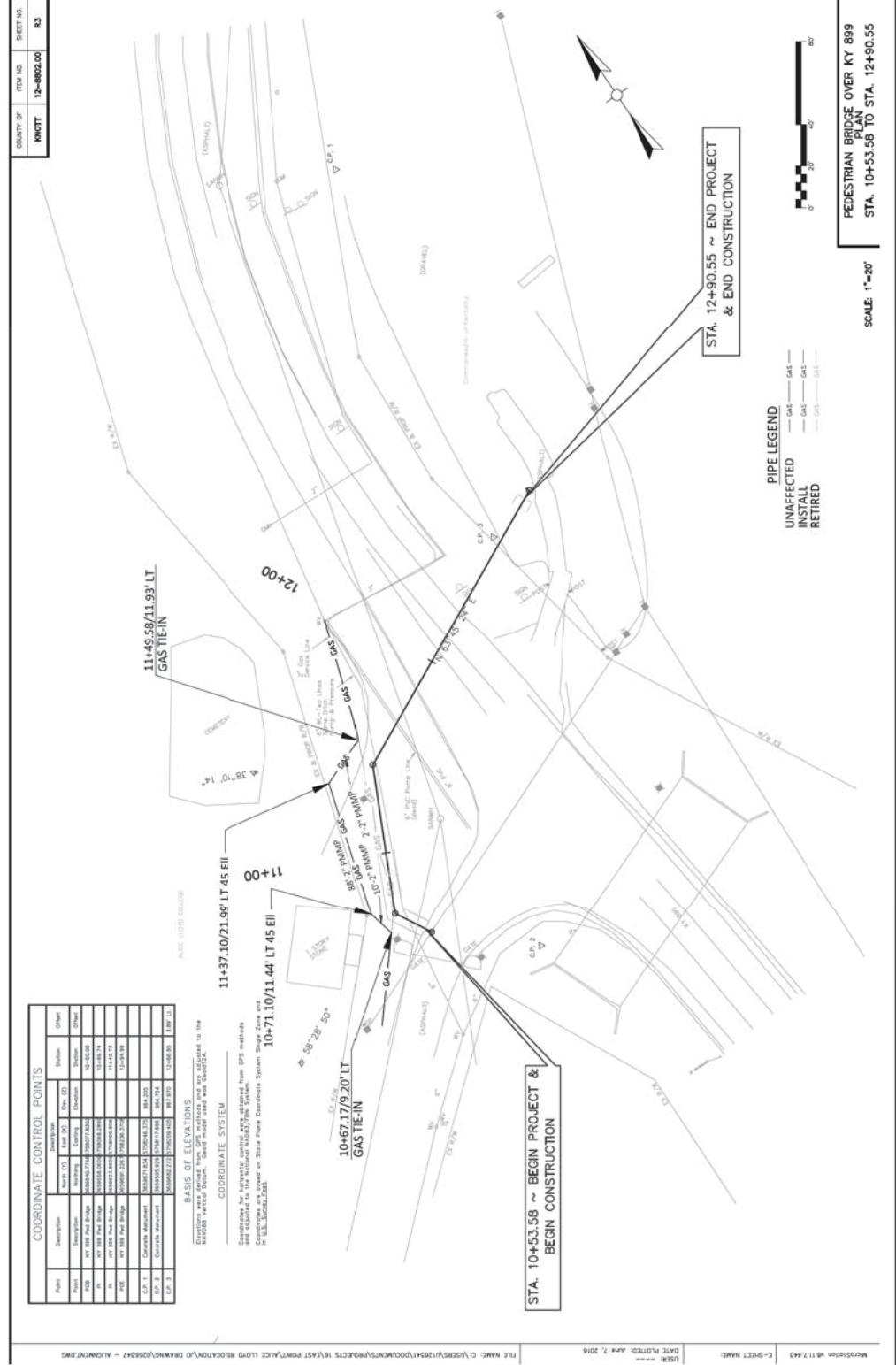
REV.#	DATE	DESCRIPTION
0		

DESIGNED BY: M. HUGHES
CHECKED BY:
DRAWN BY:
SCALE:
DATE:
PHONE #:

SITE NAME:
JO #: 14-00001-00
JO #: 14-00009-00
PROJECT ID #: 14-00001
ALICE LLOYD COLLEGE RELOCATION
PIPPA PASSEL, KNOTT

PROJECT TITLE:
LAYOUT SHEET

DRAWING NO.:
L-1



COORDINATE CONTROL POINTS

Point	Description	North (N)	East (E)	Dist. (D)	Method	Other
114-37.10/21.96 <tr> <td>114-49.58/11.93 <tr> <td>10-67.17/9.20 <tr> <td>10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr></td></tr></td></tr></td></tr>	114-49.58/11.93 <tr> <td>10-67.17/9.20 <tr> <td>10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr></td></tr></td></tr>	10-67.17/9.20 <tr> <td>10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr></td></tr>	10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr>	11+00 <tr> <td>12+00 </td></tr>	12+00	
114-49.58/11.93 <tr> <td>10-67.17/9.20 <tr> <td>10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr></td></tr></td></tr>	10-67.17/9.20 <tr> <td>10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr></td></tr>	10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr>	11+00 <tr> <td>12+00 </td></tr>	12+00		
10-67.17/9.20 <tr> <td>10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr></td></tr>	10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr>	11+00 <tr> <td>12+00 </td></tr>	12+00			
10-71.10/11.44 <tr> <td>11+00 <tr> <td>12+00 </td></tr></td></tr>	11+00 <tr> <td>12+00 </td></tr>	12+00				
11+00 <tr> <td>12+00 </td></tr>	12+00					
12+00						

BASIS OF ELEVATIONS:
Elevations were obtained from a bench mark located on the east side of the road near the intersection of KY 889 and KY 890. The bench mark is located at station 10+53.58 on KY 889. The elevation of this bench mark is 1144.82 feet above sea level.

COORDINATE SYSTEM:
Coordinates for horizontal control were obtained from GPS measurements and adjusted to the National 83/87/89 System. The coordinates for vertical control were obtained from the National 83/87/89 System. The coordinates for the control points are listed in the table above.

PIPE LEGEND

UNAFFECTED
INSTALL
RETIRED

--- GAS ---
--- GAS ---
--- GAS ---
--- GAS ---

SCALE: 1"=20'

PEDESTRIAN BRIDGE OVER KY 889
PLAN
STA. 10+53.58 TO STA. 12+90.55

AS-BUILT GAS LINE PLAN

A half size set of plans for this project may be viewed at the following link.

<http://transportation.ky.gov/Construction-Procurement/Pages/project-information.aspx?letting=7/28/2017>

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

KNOTT COUNTY

PEDESTRIAN BRIDGE OVER KY 899 STA. 12+01.81

INDEX OF SHEETS

Sheet No.	Title Sheet	Description
S1	General Notes	
S2	Layout	
S3	Foundation Layout	
S4	Abutments	
S5	Piers 1, 2, 5	
S6	Piers 3, 4	
S7	Sounding Layout	

SPECIAL NOTES

Special Note 11C Drilled Shafts

SPECIAL PROVISIONS

STANDARD DRAWINGS

BOX-206-08 Stencils for Structures
 BOX-207-02 Geotechnical Legend
 BOX-208-06 Reinforcement Legend
 Reinforcement Type A, A-1, A-2, A-3, A-4

SPECIFICATIONS

AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges (2009)
 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals (2009)
 2012 Standard Specifications for Road and Bridge Construction
 2012 ASHTO LRFD Bridge Design Specifications
 PIER 3 & 4 REIN. STEEL CHANGED - DK 6-16-2016
 Inserted the Box Item Code. 8-22-2017

REVISION

DATE	REVISION	CHECKED BY
JULY 2015	DKA	
DESIGNED BY:	DKA	
DETAILED BY:	BGS	

COMMUNICABLE OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 COUNTY: KNOTT
 ROUTE: KY 899
 CROSSING: PEDESTRIAN OVERPASS
 TITLE AND QUANTITIES SHEET
 PREPARED BY: HMB PROFESSIONAL AND ENGINEERS, INC.
 SHEET NO. S1
 DRAWING NO. 27393

ESTIMATE OF QUANTITIES

BID ITEM CODE	Concrete Class "A"	Steel	Truss Bridge Reinforcement	Structure Superstructure	Excavation Common	Masonry	Access Stairs (Precast Concrete)	Drilled Shaft (Common) 54 inch	Drilled Shaft (Rock) 48 inch	Rock Sounding	Rock Cutting	Handrail Type A-1
ABUTMENT #1	C.Y. 1.7	LBS. 244	L.S. 244	L.S. 4	S.Y. 16	S.Y. 17	L.S. 1	L.F. 16.0	L.F. 42	L.F. 40	L.F. 170	
PIER #2	8.0	1107		17	23			8.0	19	20		
PIER #3	12.7	3232		46	46			18.5	23	20		
PIER #4	11.7	2782		15	19			23.0	23	20		
PIER #5	6.7	872		6								
ABUTMENT #2	1.7	244		1				41.5	16.0	42	40	170
Superstructure				1								
BRIDGE TOTALS	49.5	9405	1	58	147	1	1	41.5	16.0	42	40	170

NOTE: THE PORTION OF THE HANDRAIL TYPE A-2 ON THE TRUSS SUPERSTRUCTURE IS INCIDENTAL TO TRUSS BRIDGE SUPERSTRUCTURE.

PLANS PREPARED BY:



Bryan G. Stoppard, P.E.
 KY No. 12531

ITEM NO. 12-8802.00

GENERAL NOTES

SHOP DRAWING PROCEDURE
FABRICATORS SHALL SEND 3 SETS OF SHOP DRAWINGS THAT ARE REQUIRED BY THE PLANS AND SPECIFICATIONS TO:
HMB PROFESSIONAL ENGINEERS, INC.
3 HMB CIRCLE US 460 GEORGETOWN ROAD
FRANKFORT, KY 40601

THE DESIGNER SHALL REVIEW THE SUBMITTAL AND SEND A SET WITH THEIR COMMENTS BACK TO THE FABRICATOR. IF DESIGNER IS SATISFIED THAT THE CONSTRUCTION CAN PROCEED, THE DESIGNER SHALL REQUEST THE FABRICATOR TO SEND THE REQUIRED NUMBER OF SETS TO THE DESIGNER FOR DISTRIBUTION AS SHOWN ON THE DIVISIONS WEB SITE.
IF ANY CHANGES IN THE DESIGN PLANS ARE PROPOSED BY A FABRICATOR OR SUPPLIER, SUBMIT THOSE CHANGES TO THE DEPARTMENT THROUGH THE CONTRACTOR.

PROHIBITED FIELD WELDING
EXCEPT AS SHOWN ON THE PLANS, NO WELDING OF ANY NATURE SHALL BE PERFORMED ON THE LOAD CARRYING MEMBERS OF THE BRIDGE WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR, DIVISION OF HIGHWAYS, AND THEN ONLY IN THE MANNER AND AT THE LOCATIONS DESIGNATED IN THE AUTHORIZATION.

WELDING SPECIFICATIONS
ALL WELDING AND WELDING MATERIALS EXCEPT FOR REINFORCEMENT, SHALL CONFORM TO "JOINT SPECIFICATION AND WELDING MATERIALS D11-5-95 BRIDGE WELDING CODE" MODIFICATION AND ADDITIONS AS SPECIFIED ON THE PLANS AND SPECIAL PROVISION 4(G), CURRENT EDITION, SHALL SUPERSEDE THE JOINT SPECIFICATIONS.

QUALIFICATION TESTS OF ALL WELDING PROCEDURES SHALL BE COMPLETED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO THE FINAL APPROVAL OF THE SHOP DRAWINGS AND WELDING PROCEDURE AND THE START OF THE FABRICATION.

HIGH STRENGTH BOLT CONNECTIONS
UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL BOLTED CONNECTIONS SHALL BE ASTM A325 7/8" INCH DIAMETER HIGH STRENGTH BOLTS, NUTS, AND WASHERS. OPEN HOLES SHALL BE 1/8" INCH OVER DIAMETER TYPE 3 BOLTS SUITABLE FOR USE WITH WEATHERING STEEL SHALL BE USED AS DESCRIBED IN ASHTO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. ALL BOLTED CONNECTIONS SHALL BE MECHANICALLY ZINC COATED WITH BAKED EPOXY APPLIED OVER THE ZINC COATING. INSTALLATION DETAILS OF THE DITS SHALL BE SHOWN ON THE SHOP PLANS.

ANCHOR BOLTS AND NUTS
INSTALL ANCHOR BOLTS IN ACCORDANCE WITH KYTC SPECIFICATIONS 607.03(17). THE COST OF DRILLING ANCHOR BOLT HOLES, HEATING ANCHOR BOLTS, FURNISHING LEAD OR GROUT AND FILLING THE HOLES SHALL BE INCIDENTAL TO AND INCLUDED IN THE LUMP SUM BID FOR TRUSS BRIDGE SUPERSTRUCTURE.

COMPLETION OF THE STRUCTURE
THE CONTRACTOR IS REQUIRED TO COMPLETE THE STRUCTURE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. WORK SHALL BE COMPLETED TO THE POINT WHERE THE STRUCTURE IS IN A CONDITION TO BE BACKFILLED, REMOVAL OF ALL OR PARTS OF EXISTING STRUCTURES, PHASE CONSTRUCTION, INCIDENTAL MATERIALS, LABOR, OR ANYTHING ELSE REQUIRED TO COMPLETE THE STRUCTURE.

DISCLAIMER
ACCEPTANCE OF ANY CONTRACTOR'S SUBMISSION REQUIRED ON THIS PROJECT DOES NOT CONSTITUTE ENDORSEMENT OR APPROVAL. THE ACCEPTANCE IS ACKNOWLEDGEMENT OF THE WORK PERFORMED AND AUTHORIZATION FOR THE CONTRACTOR TO PROCEED. THE DEPARTMENT IS NOT BOUND BY ACCEPTANCE OF ANY SUBMISSIONS REQUIRED. FINAL ACCEPTANCE OR APPROVAL WILL BE CONTINGENT ON THE SATISFACTORY COMPLETION OF THE PROJECT.

PEDESTRIAN RAIL
Work includes providing all pedestrian rails, complete, in accordance with the KDOT Standard Specifications for Highway Construction. This includes providing all labor, materials, equipment, and finishing items necessary for the placement of pedestrian rail, including but not limited to all steel rails, posts, fittings, painting, and appurtenances shall be included in the lump sum bid for Truss Bridge Superstructure. Shop drawings shall be submitted for the approval of the Division of Highways. Under handrail Type A-4. All portions of the railing, both A-2 and A-4, shall be painted glass block.

GEOTECHNICAL INFORMATION
Additional notes and information are contained in the geotechnical report for this project (S-072-2015). By reference this report is part of the contract documents.

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 ASHTO SPECIFICATIONS ARE TO THE CURRENT EDITION OF THE ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, WITH INTERIMS.

DESIGN LOAD AND METHOD
THIS BRIDGE SHALL BE DESIGNED FOR A 90 PSF PEDESTRIAN LOADING WITHOUT IMPACT AS DESCRIBED IN THE ASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES' (2009). WIND LOAD SHALL BE AS REFERENCED IN THE GUIDE TO "ASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", (2008). DESIGN ISSUES NOT ADDRESSED IN THE GUIDE SPEC. REFER TO "ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS", (2006).

MATERIALS DESIGN SPECIFICATIONS
F_c = 3,5 KSI FOR CLASS "A" REINFORCED CONCRETE
F_y = 60 KSI FOR STEEL REINFORCEMENT
F_y = 50 KSI FOR STEEL GIRDERS & TRUSS MEMBERS, SECONDARY MEMBERS, STIFFENERS & SPLICES
F_y = 36 KSI FOR DRAINS & ARMORED EDGES
F_y = 50 KSI FOR PILING

MATERIAL SPECIFICATIONS
ASTM OR ASHTO SPECIFICATIONS AS DESIGNATED BELOW SHALL GOVERN THE MATERIALS FURNISHED.
MATERIAL A.S.T.M. B69-79
STRUCTURAL STEEL (GRADE 36) M-270M GRADE 36
STRUCTURAL STEEL (GRADE 50) M-270M GRADE 50
STEEL SHEAR CONNECTORS, UNLS G 015 M-169
HIGH STRENGTH BOLT AND WASHERS M-164M TYPE 3

ALL PLANE AND WEB MATERIAL, INCLUDING SPICE PLATES, IN LONGITUDINAL PLATE GIRDERS SHALL BE A572 OR A575. ALL OTHER MATERIAL SHALL BE A36. ALL CHANNELS SHALL BE A36. ALL CHIRPY Y-TIGING TOUGHNESS TEST APPLICABLE TO ZONE 2 IN ACCORDANCE WITH THE FOLLOWING:
GRADE 36 (ARMORED EDGE) - UP TO 4 IN THICKNESS 25 FT-LBF AT 40 DEG. F.
GRADE 50W - UP TO 2 IN THICKNESS 30 FT-LBF AT 40 DEG. F.
GRADE 50W - OVER 2 IN TO 4 IN THICKNESS 25 FT-LBF AT 40 DEG. F.
SAMPLING & TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH ASHTO 7245 (C.E.P.), UTILIZING (H) FREQUENCY TESTING. WHEN PLATE THICKNESS EXCEEDS 1/2 IN, FREQUENCY OF TESTING SHALL BE 1%.
CONCRETE CLASS "AA" CONCRETE IS TO BE USED IN THE ROADWAY SLAB, BARRIERS, AND IN THE PORTIONS OF THE SUPERSTRUCTURE ABOVE THE BRIDGE SEATS. CLASS "A" CONCRETE IS TO BE USED IN THE SUPERSTRUCTURE BELOW THE BRIDGE SEATS, EXCEPT AS NOTED.

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. ALL DIMENSIONS SHALL BE IN INCHES UNLESS OTHERWISE NOTED. USE OF THE STANDARD SPECIFICATIONS, USE STIRRUP BEND DIAMETERS FOR BARS DESIGNATED BY SUFFIX (S) IN BILL OF REINFORCEMENT.
BEVELED EDGES ALL EXPOSED EDGES SHALL BE BEVELED 7/8" UNLESS OTHERWISE NOTED.

DIMENSIONS
DIMENSIONS ARE FOR A NORMAL TEMPERATURE OF 60 DEGREES FAHRENHEIT. LAYOUT DIMENSIONS ARE HORIZONTAL DIMENSIONS.

PRECAST STAIRS
Two 4' wide units or one 8' wide unit are acceptable. Reinforcing used in the stairs shall be epoxy coated, the design, detailing of the bearings and connections to the substructure are to be included in the submittals. The installation and furnishing of the bearings and connections are included in the unit price bid for Precast Concrete Stairs.
Submit shop drawings in accordance with the KDOT Standard Specifications. These shop drawings shall show all relative design information such as member sizes, reinforcing, reactions, anchor bolt spacing dimensions, and general notes shall be clearly specified on the drawings. Drawings shall have cross referenced details and sheet numbers. All drawings shall be signed and sealed by a Professional Engineer who is licensed in the State of Kentucky. Structural calculations for the precast concrete stairs shall be submitted and approved by a Professional Engineer who is licensed in the State of Kentucky.

CONSTRUCTION IDENTIFICATION
THE NAMES OF THE PRIME CONTRACTOR AND THE SUBCONTRACTOR SHALL BE IMPRINTED IN THE SHOP DRAWINGS. ALL PLANS, SPECIFICATIONS AND DRAWINGS FOR WHICH THE CONTRACTOR SHALL FURNISH ALL PLANS, EQUIPMENT AND LABOR NECESSARY TO DO THE WORK FOR WHICH NO DIRECT PAYMENT WILL BE MADE.

PREFABRICATED BRIDGE

Bridge shall be designed as a straight truss that has one diagonal per panel and dumb end vertical members. Interior vertical members may be either plumb or perpendicular to the chord faces. Bridge shall be designed utilizing an H-Section configuration where the floor beams (are placed up inside the trusses and attached to the truss verticals). The bridge manufacturer shall determine the distance from the top of the deck to the top and bottom truss members based upon structural and/or shipping requirements.

All members of the vertical trusses (top and bottom chords, verticals, and diagonals) shall be fabricated from square and/or rectangular structural steel tubing. Other structural members and bracing shall be fabricated from structural steel shapes or square and rectangular structural steel tubing. Unless the floor and fastenings (are specially designed to provide adequate lateral support to the top angle of open web trusses) all other members shall be fabricated from square and/or rectangular structural steel tubing at every floor beam location. All steel members shall be Grade 50W (weathering steel) and painted a color as designated by ALICE LLOYD COLLEGE, Contact Director of Physical Plant (606)368-6130.

The bridge shall have a vertical camber dimension at midspan equal to 100% of the full dead load deflection plus 1% of the full length of the bridge.

Bridge bearings shall consist of a steel (GRADE 50W) sole plate and an elastomeric bearing pad with steel shims if required placed on the abutment or groud pad. The elastomer to bearing pads shall be designed in accordance with Method B in the AASHTO LRFD Bridge Design Specifications, Use C or 95 psi. The bridge bearing sole plate which is bolted to the bridge structure shall be vulcanized to the bearing pad. One end of the bridge will be fixed by fully grouting the bearing pad to allow movement under thermal expansion or contraction in slotted holes on the sole plate.

Epoxy coated reinforcement shall be used in the concrete deck. The concrete deck and reinforcement shall be included in the lump sum bid for Truss Bridge Superstructure. The bridge manufacturer shall warrant their steel structure(s) to be free of design, material and workmanship defects for a period of ten years from the date of delivery.

Structural design of the bridge structure shall be performed by or under the direct supervision of a Licensed Professional Engineer in the State of Kentucky and done in accordance with recognized engineering practices and principles.

The bridge manufacturer shall determine the number and diameter of all anchor bolts. The anchor bolts shall be designed to resist all horizontal and uplift forces created by wind and seismic loads. The bridge manufacturer shall determine the bracket and/or footing(s), including design of anchor bolt embedments, shall be the responsibility of the ENGINEER.

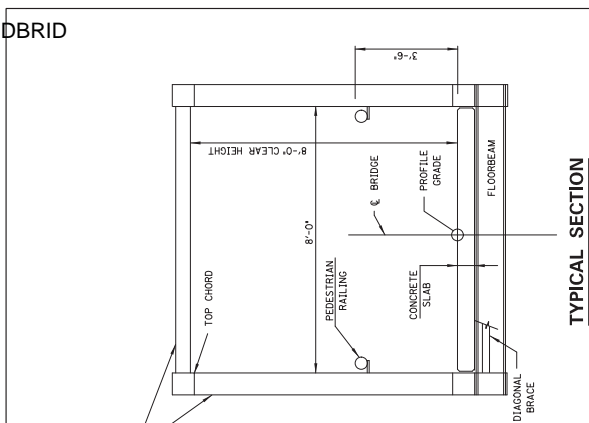
Submit shop drawings in accordance with the KDOT Standard Specifications. These shop drawings shall show all relative design information such as member sizes, reinforcing, reactions, anchor bolt spacing dimensions, and general notes shall be clearly specified on the drawings. Drawings shall have cross referenced details and sheet numbers. All drawings shall be signed and sealed by a Professional Engineer who is licensed in the State of Kentucky.

Structural calculations for the bridge superstructure shall be submitted by the bridge manufacturer. All calculations shall be signed and sealed by a Professional Engineer who is licensed in the State of Kentucky.

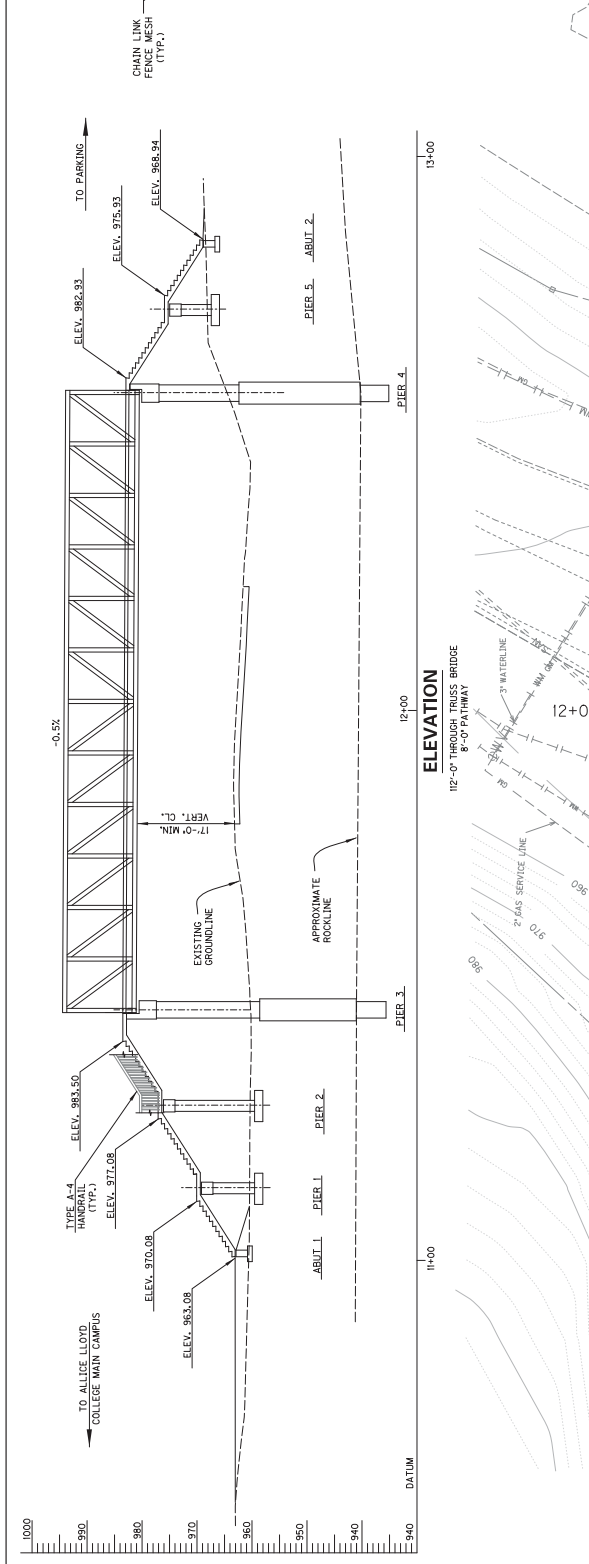
PREFABRICATED BRIDGE - OTHER SUBMITTALS
Welder certifications in compliance with AWS standard qualification Tests.

Splicing and erection procedures. Inspection and Maintenance procedures. AISC Shop Certification.

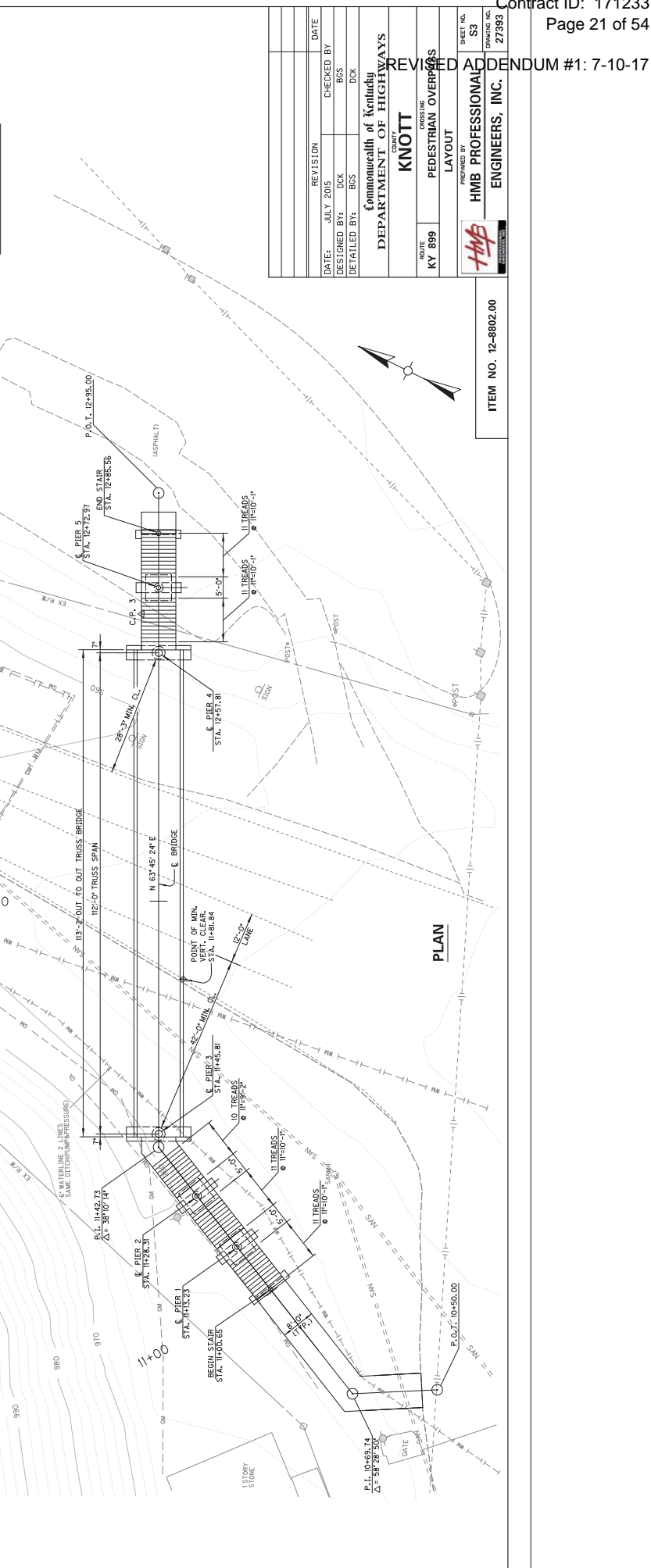
DATE: _____		REVISION		CHECKED BY	
DESIGNED BY: BCS		DKC		BOS	
DETAILED BY: BCS		DKC		DKC	
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY: KNOTT ROUTE: KY 899 CHAIRMAN: PEDESTRIAN OVERPASS ENGINEER: HMB PREPARED BY: HMB PROFESSIONAL ENGINEERS, INC.					
SHEET NO.		TOTAL SHEETS			
52		27393			
ITEM NO. 12-8802.00					



TYPICAL SECTION



ELEVATION
112'-0" THROUGH TRUSS BRIDGE
8'-0" PATHWAY



PLAN

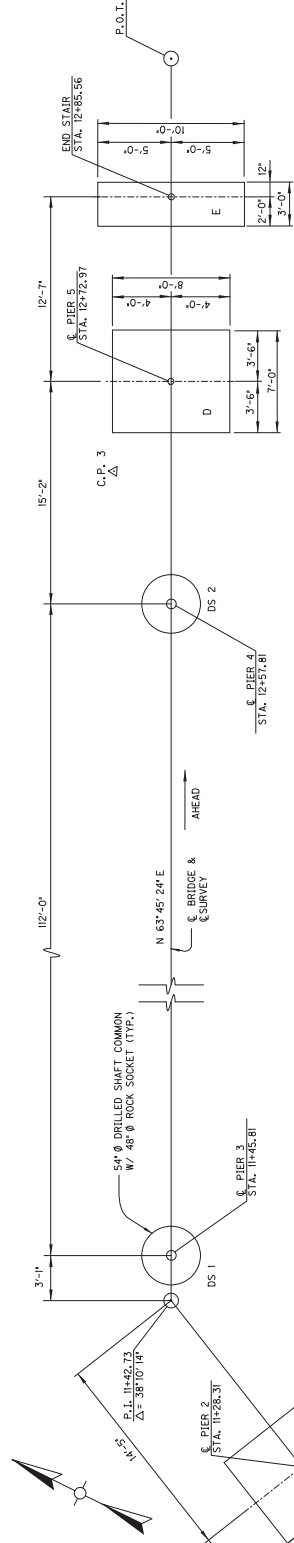
REVISION	DATE	CHECKED BY
DESIGNED BY: DCK DETAILED BY: BGS	JULY 2015	BGS
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
COUNTY: KNOTT		
ROUTE: KY 899	CROSSING: PEDESTRIAN OVERPASS	LAYOUT
PREPARED BY: HMB PROFESSIONAL ENGINEERS, INC.		
SHEET NO.: S3		
DRAWING NO.: 27393		



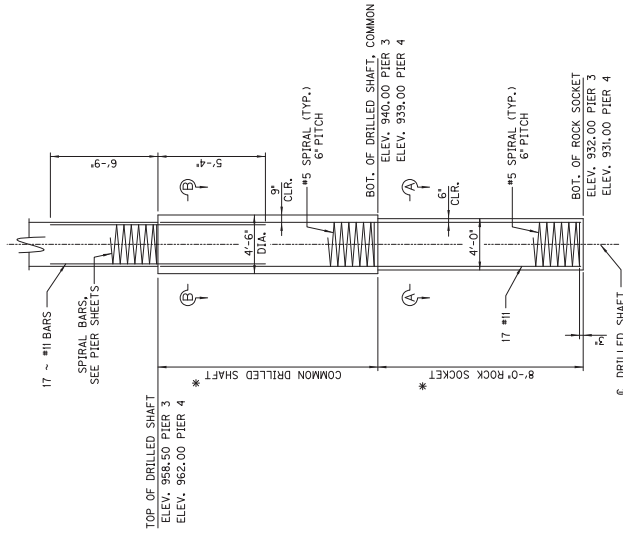
ITEM NO. 12-8802.00

POINT	BOTTOM FTG. ELEV.	AS BUILT FTG. ELEVATION
A	960.45	
B	956.37	
C	956.37	
D	964.22	
E	966.31	

FOOTINGS ARE DESIGNED FOR A MAXIMUM FACTORED PRESSURE OF 2 KSF AT THE ALLOWABLE BEARING RESISTANCE IS 7 KSF AT THE STRENGTH LIMIT STATE.



FOUNDATION LAYOUT



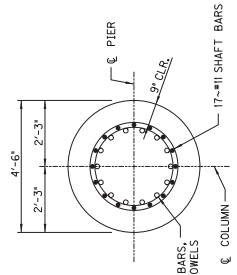
TYPICAL DRILLED SHAFT

DRILLED SHAFT NOTES:
 DRILLED SHAFT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND THE CURRENT SPECIAL NOTE FOR DRILLED SHAFTS.
 PERMANENT CASING IS REQUIRED IN THE OVERBURDEN MATERIAL AND IS TO BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR DRILLED SHAFT.
 EXPLORATORY DRILLING, REQUIRED TO FINALIZE THE DRILLED SHAFT TIP ELEVATIONS, WILL BE PAID UNDER THE FOLLOWING BID ITEMS.

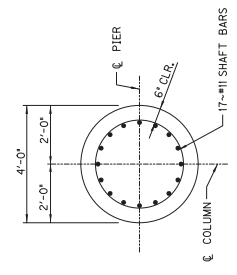
ITEM	QUAN	UNITS.
ROCK SOUNDING	42	LF
ROCK CORING	40	LF

* NOTE: TO BE COMPLETED BY FIELD CONSTRUCTION PERSONNEL

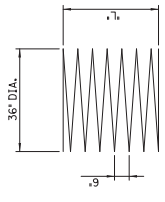
LOCATION	SHAFT	TOP OF ROCK ELEV.	BOTTOM OF HOLE ELEV.	LENGTH OF DRILLED SHAFT COMMON *	LENGTH OF DRILLED SHAFT SOLID ROCK *
PIER 3	DS1	958.50			
PIER 4	DS2	962.00			



SECTION B-B



SECTION A-A



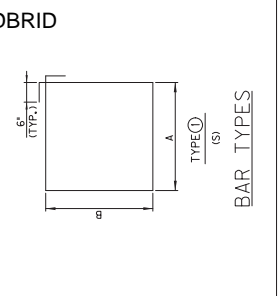
SPIRAL BAR
 INCLUDE 1/2 EXTRA TURNS AT TOP & BOTTOM OF SPIRAL

REVISION	DATE	CHECKED BY	DATE
	JULY 2015	DKC	
	DESIGNED BY: DKC	BOS	
	DETAILED BY: BOS	DKC	

COMMUNWEALTH OF KENTUCKY
 DEPARTMENT OF HIGHWAYS
 COUNTY: KNOTT
 ROUTE: KY 899
 CROSSING: PEDESTRIAN OVERPASS
 PREPARED BY: FOUNDATION LAYOUT
 SHEET NO. S4
 DRAWING NO. 27393



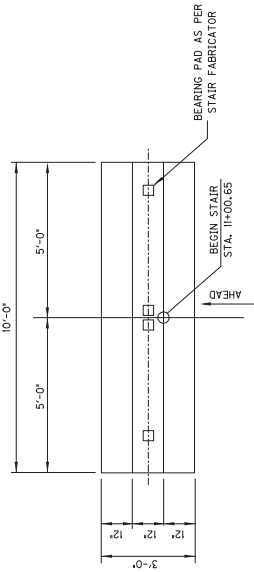
ITEM NO. 12-8802.00



BILL OF REINFORCEMENT

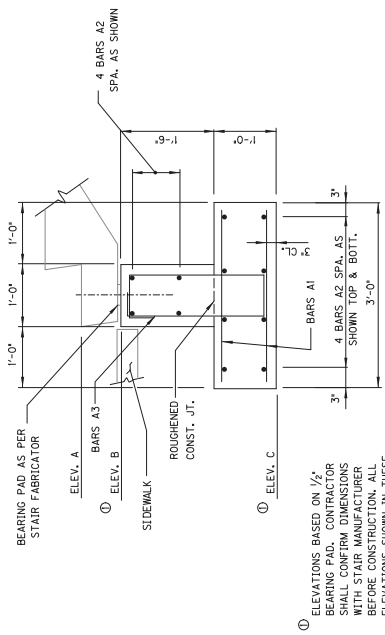
MARK	TYPE	NO.	SIZE	LENGTH	LOCATION				
					A	B	C	D	
				FT	IN	FT	IN	FT	IN
A1	STR.	20	#5	2	8				
A2	STR.	12	#5	9	8				
A3	⊙	10	#5	6	6			0	8
								2	1

QUANTITY IS FOR ONE ABUTMENT



PLAN OF CAP

ABUT 1 SHOWN, ABUT 2 SIMILAR

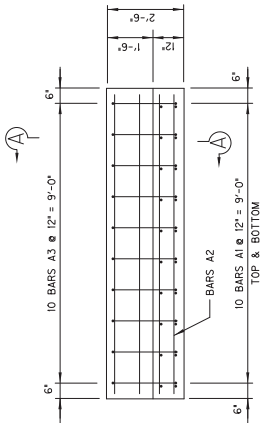


SECTION A-A

ELEVATIONS

ABUTMENT 1	ABUTMENT 2
A	963.663
B	962.955
C	960.455

⊙ ELEVATIONS BASED ON 1/2" BEARING PAD. CONTRACTOR SHALL CONFIRM DIMENSIONS WITH STAIR MANUFACTURER BEFORE ORDERING. THESE ELEVATIONS SHOWN IN THESE PLANS WILL NEED TO BE ADJUSTED BASED ON THIS DIMENSION.



ELEVATION

REVISION	DATE
DESIGNED BY: DCK	CHECKED BY: BGS
DETAILED BY: BGS	DCK
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY KNOTT	
ROUTE KY 899	CROSSING PEDESTRIAN OVERPASS
ABUTMENTS	
PREPARED BY HMB PROFESSIONAL ENGINEERS, INC.	
SHEET NO. S5	
DRAWING NO. 27393	

ITEM NO. 12-8802.00

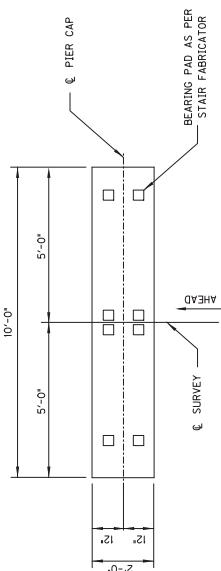
BILL OF REINFORCEMENT

MARK	TYPE	NO. PIER	NO. PIER 2	NO. PIER 5	SIZE	LENGTH	LOCATION	A			B			C		
								FT	IN	FT	IN	FT	IN	FT	IN	FT
P1	①	7	8	7	#6	9	FOOTING	7	2	1	0	6	7	8		
P2	①	8	8	8	#6	8	FOOTING	6	2	1	0	6	6	8		
P3	STR.	7	7	7	#5	7	FOOTING									
P4	STR.	8	8	8	#5	6	FOOTING									
P5	②	14	14	14	#6	5	FOOTING DOME	4	1	1	0	6	4	4		
P6	③	9	16	7	#4	7	COLUMN	1	8	1	8	1	8			
P7	STR.	14	-	-	#6	10	COLUMN									
P8	STR.	-	14	-	#6	17	COLUMN									
P9	STR.	-	14	-	#6	8	CAP									
P10	STR.	5	4	5	#6	9	CAP									
P11	STR.	4	4	4	#5	9	CAP									
P12	①	5	5	5	#6	10	CAP	8	1	0	6	9	8			
P13	③	10	10	10	#4	7	CAP	1	8	1	8	1	8			

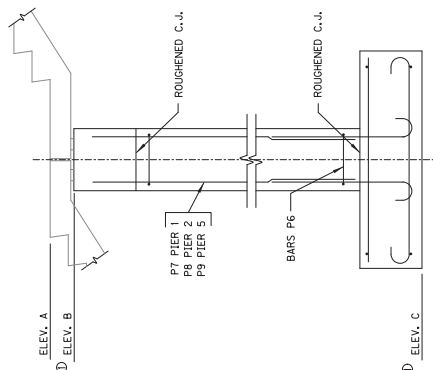
ELEVATIONS

	PIER 1	PIER 2	PIER 5
A	970.08	977.08	975.93
B	969.372	976.372	975.222
C	956.37	956.37	964.22

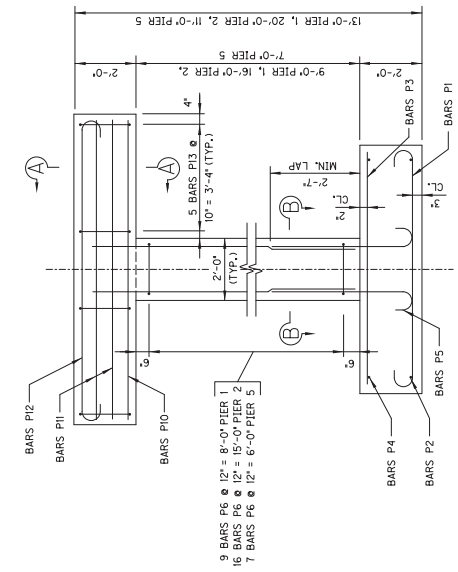
① ELEVATIONS BASED ON AN #4 SLAB AND 1/2" BEARING PAD. CONTRACTOR SHALL CONFIRM DIMENSIONS WITH STAIR MANUFACTURER BEFORE CONSTRUCTION. ALL ELEVATIONS SHOWN IN THESE PLANS WILL NEED TO BE ADJUSTED BASED ON THESE DIMENSIONS.



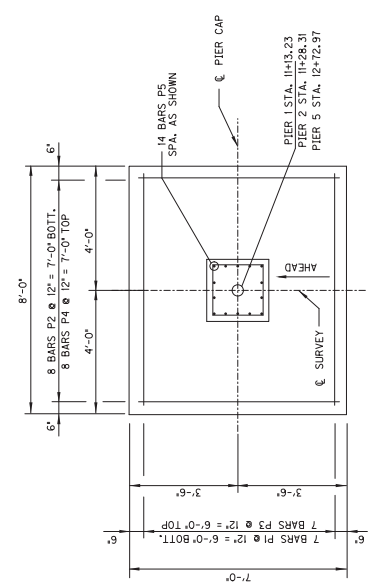
PLAN OF CAP



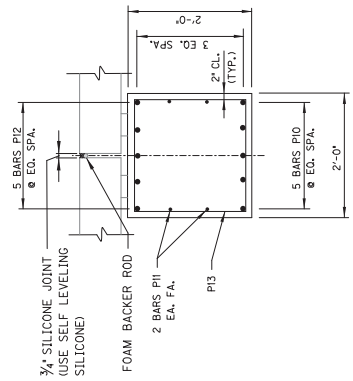
END ELEVATION



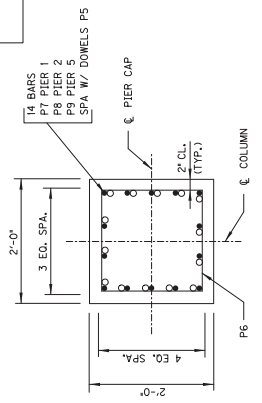
ELEVATION



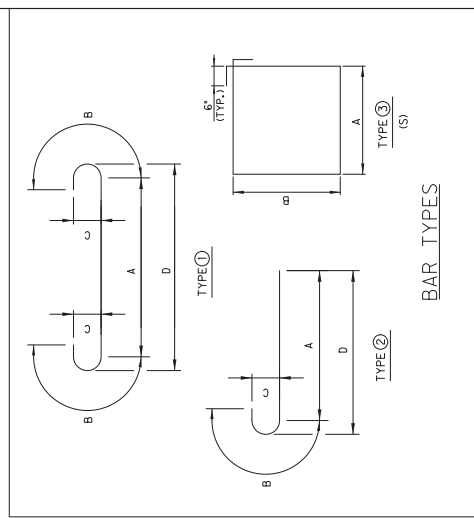
PLAN OF FOOTING



SECTION A-A



SECTION B-B



BAR TYPES

DATE	REVISION	CHECKED BY	DATE
JULY 2015		DKC	
DESIGNED BY:	DKC	DKC	
DETAILED BY:	DKC	DKC	

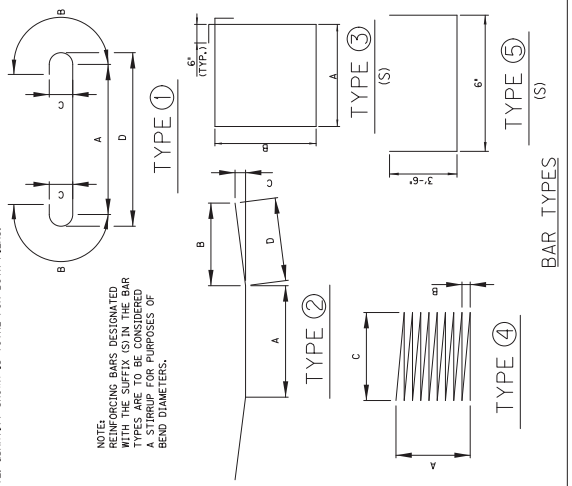
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
COUNTY
KNOTT
ROUTE
KY 899
CROSSING
PEDESTRIAN OVERPASS
PIERS 1, 2, & 5
REVISION
REVISED AND
HMB PROFESSIONAL ENGINEERS, INC.
SHEET NO. S6
DRAWING NO. 27393
ITEM NO. 12-8802.00

PIER 3 & 4

MARK	TYPE	NO.	SIZE	LENGTH		LOCATION		A		B		C		D	
				FT	IN	FT	IN	FT	IN	FT	IN	FT	IN	FT	IN
P1	STR	12	#8	13	10	CAP		11	0	1	5	8	11	8	
P2	STR	12	#8	12	5	CAP		11	2	4	3	11	5	8	
P3	STR	16	#8	11	8	CAP									
P4	STR	4	#6	7	9	CAP									
P5	STR	12	#5	11	8	CAP									
P6	STR	24	#4	7	6	CAP									
P7	STR	17	#11	22	0	COLUMN PIER 3		17	2	0	3	2	8		
P8	STR	4	#4	5	4	CAP STIRRUP		3	0	5	7	5	8		
P9	STR	4	#4	18	3	CAP STIRRUP		3	0	5	3				
P10	STR	4	#4	16	9	CAP STIRRUP		3	0	4	10	3	8		
P11	STR	4	#4	15	11	CAP STIRRUP		3	0	4	5	3	4		
P12	STR	4	#4	15	2	CAP STIRRUP		3	0	4	1	0	8		
P13	STR	4	#4	14	5	CAP STIRRUP		3	0	3	8	1	2		
P14	STR	4	#4	4	6	CAP STIRRUP		13	1	0	3	2	8		
P15	STR	17	#11	18	0	COLUMN PIER 4									
P16	STR	17	#11	18	0	COLUMN PIER 4									

NOTE: QUANTITY SHOWN IS TOTAL FOR BOTH PIERS.

NOTE: REINFORCING BARS DESIGNATED BY TYPE 1 THROUGH TYPE 4 OR A STIRRUP FOR PURPOSES OF BEND DIAMETERS.



CHANGED SPIRAL BAR DIMS - DK 3-16-16

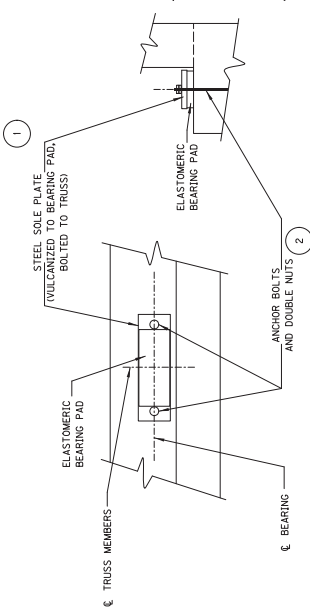
REVISION	DATE	CHECKED BY
JULY 2015		

DESIGNED BY: BGS
DETAILED BY: BGS

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

KNOTT COUNTY
PROJECT NO. KY 899 CROSSING PEDESTRIAN OVERPASS PIER 3 & 4

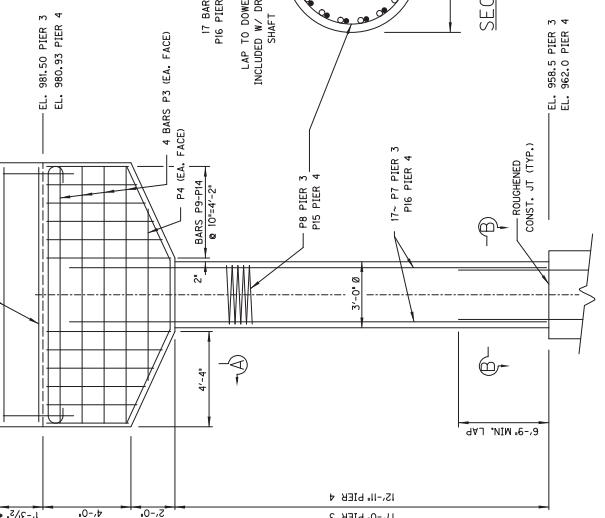
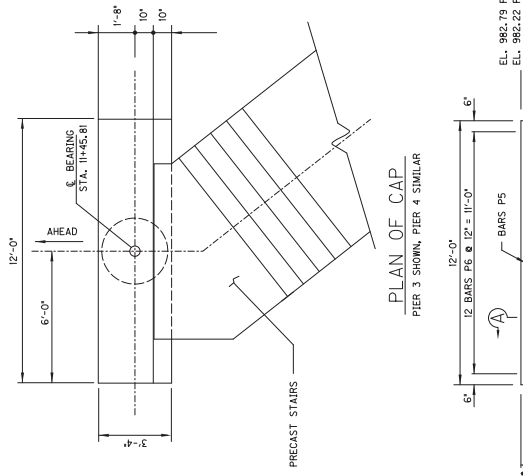
PREPARED BY: HMB PROFESSIONAL ENGINEERS, INC.
SHEET NO. S7
DRAWING NO. 27393



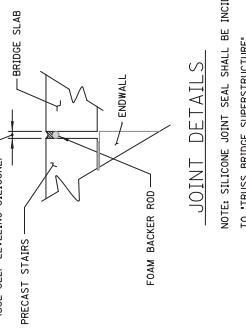
BEARING DETAILS

- NOTE: USE STANDARD HOLES IN THE SOLE PLATE ON BENT 1 (FIXED). USE SLOTTED HOLES IN SOLE PLATE ON BENT 2 (EXPANSION).
- DESIGN ANCHOR BOLTS FOR 20% DEAD LOAD IN SHEAR. COST TO FURNISH AND INSTALL ANCHOR BOLTS SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE TRUSS SUPERSTRUCTURE.

PLAN OF CAP
PIER 3 SHOWN, PIER 4 SIMILAR



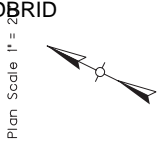
NOTE: CONTRACTOR SHALL CONFIRM THIS DIMENSION WITH THE FIELD SUPERVISOR. ALL ELEVATIONS SHOWN IN THESE PLANS WILL NEED TO BE ADJUSTED BASED ON THIS DIMENSION.



JOINT DETAILS

NOTE: SILICONE JOINT SEAL SHALL BE INCIDENTAL TO "TRUSS BRIDGE SUPERSTRUCTURE"

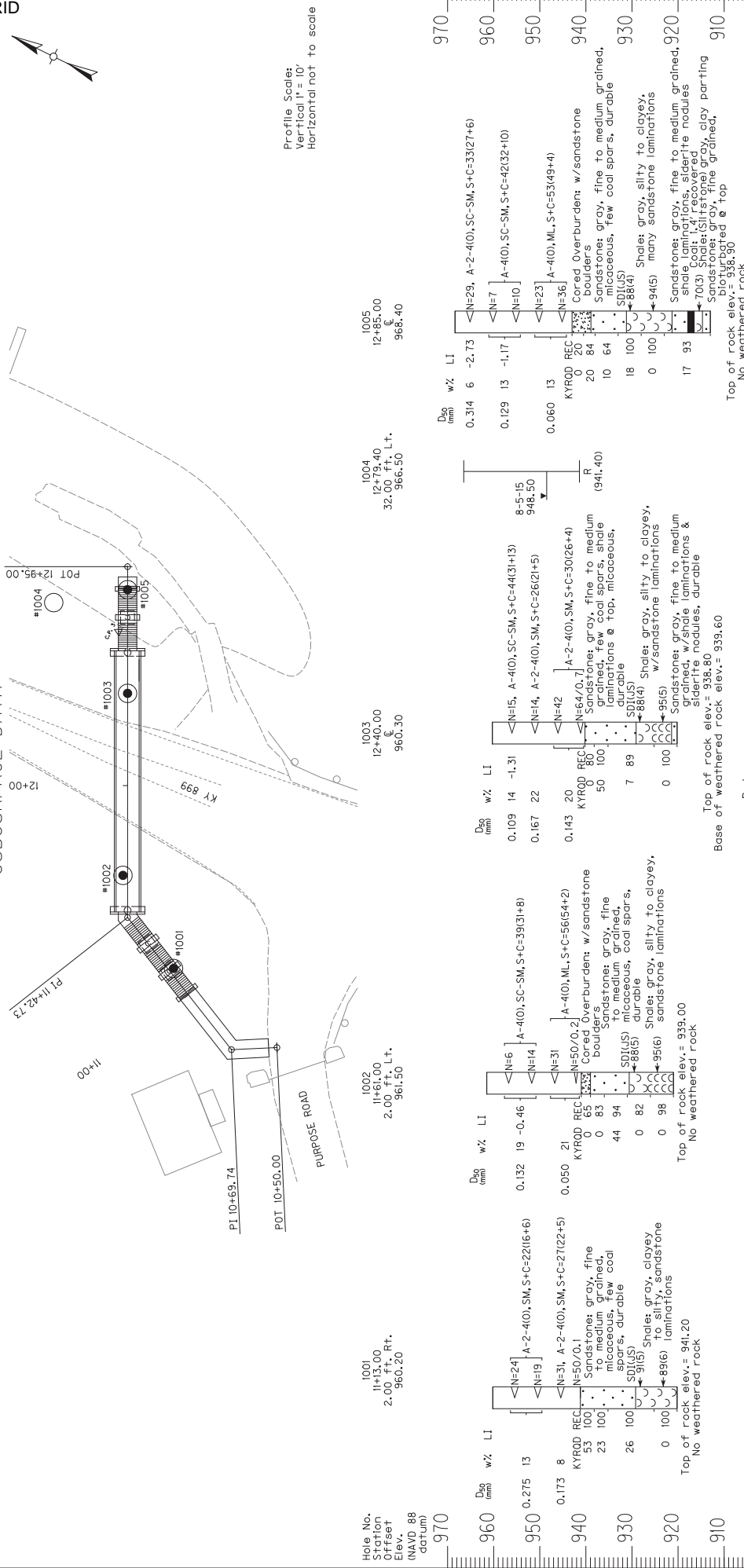
ITEM NO. 12-8802.00



Plan Scale 1" = 20'

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

SUBSURFACE DATA



Hole No. Station Offset Elev. (NAVD 88 datum)
1001 11+13.00 2.00 ft., Rt. 960.20
1002 11+61.00 2.00 ft., Lt. 961.50
1003 12+40.00 32.00 ft., Lt. 960.30
1004 12+79.40 32.00 ft., Lt. 966.50
1005 12+85.00 32.00 ft., Lt. 968.40

Hole No.	Station	Offset	Elev. (NAVD 88 datum)	D ₅₀ (mm)	w% (mm)	LI	Notes
1001	11+13.00	2.00 ft., Rt.	960.20	0.173	13	8	KYRQD REC N=50/0.1 Sandstone: gray, fine to medium grained, micaceous, few coal sh. s., durable (S _D (US) 915) Shale: gray, clayey to silty, sandstone laminations (896)
1002	11+61.00	2.00 ft., Lt.	961.50	0.132	19	-0.46	KYRQD REC N=50/0.2 Cored Overburden: w/sandstone boulders Sandstone: gray, fine to medium grained, micaceous, coal spars., durable (S _D (US) 885) Shale: gray, silty to clayey, sandstone laminations (956)
1003	12+40.00	32.00 ft., Lt.	960.30	0.143	20	80	KYRQD REC N=64/0.71 A-2-4(0), SM, S+C=30(26+4) Sandstone: gray, fine to medium grained, few coal spars, shale laminations @ top, micaceous, durable (S _D (US) 884) Shale: gray, silty to clayey, w/sandstone laminations (955)
1004	12+79.40	32.00 ft., Lt.	966.50	0.109	14	-1.31	KYRQD REC N=15, A-4(0), SC-SM, S+C=44(31+13) Sandstone: gray, fine to medium grained, few coal spars, shale laminations @ top, micaceous, durable (S _D (US) 884) Shale: gray, silty to clayey, w/sandstone laminations (955)
1005	12+85.00	32.00 ft., Lt.	968.40	0.129	13	-1.17	KYRQD REC N=10, A-4(0), SC-SM, S+C=42(32+10) Sandstone: gray, fine to medium grained, micaceous, few coal spars, durable (S _D (US) 884) Shale: gray, silty to clayey, many sandstone laminations (945)

DATE: 3/17/2016
FILE NAME: G:\Vengr\H21246_04\Bridges\Cadd\008-2733-5008-Subsurface Data.dgn
SHEET LOCATION: SHEET NO. 27393

DATE: 28-SEPTEMBER-2015
DESIGNED BY: E. BAILEY
CHECKED BY: D. GREER

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

ROUTE KY 899
COUNTY KNOTT
CROSSING Pedestrian Bridge

PROJECTED BY: SUBSURFACE DATA
Division of Structural Design
GEO TECHNICAL BRANCH

ITEM NUMBER: S-072-15
12-8802.00



KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF RIGHT OF WAY & UTILITIES

REVISED APPENDUM #1: 7-10-17
TC 62-226

Rev. 07/2015
Page 1 of 1

RIGHT OF WAY CERTIFICATION

ITEM #	COUNTY	PROJECT #	FEDERAL PROJECT #
12-8802.00	Knott	FD04 C060 9014401D	

PROJECT DESCRIPTION Pedestrian Bridge Over KY 899 (Alice Lloyd College)

NO ADDITIONAL RIGHT OF WAY REQUIRED

Construction will be within the limits of the existing right of way. The right of way was acquired in accordance with FHWA regulations under the Uniform Relocation Assistance and Real Property Acquisitions Policy Act of 1970, as amended. No additional rights of way or relocation assistance were required for this project.

ADDITIONAL RIGHT OF WAY REQUIRED AND CLEARED

TOTAL NUMBER OF PARCELS ON PROJECT	IMPROVEMENTS	
NUMBER OF PARCELS THAT HAVE BEEN ACQUIRED BY:	<input type="checkbox"/>	There were no improvements within the required right of way
Signed Deed	<input type="checkbox"/>	All improvements have been removed from the required right of way
Condemnation	<input type="checkbox"/>	Improvements are currently being removed and it is anticipated that right of way will be cleared prior to the letting date
Signed Right of Entry Agreement	<input type="checkbox"/>	Improvement removal will be included in the construction contract
RELOCATION ASSISTANCE	<input type="checkbox"/>	
Relocation Assistance was not required for this project	<input type="checkbox"/>	
All parties have been relocated in accordance with FHWA regulations	<input type="checkbox"/>	

ADDITIONAL RIGHT OF WAY REQUIRED WITH EXCEPTION

TOTAL NUMBER OF PARCELS ON PROJECT	IMPROVEMENTS	
Number of parcels acquired by Deed, Condemnation or Signed Right of Entry Agreement	<input type="checkbox"/>	There were no improvements within the required right of way
EXCEPTION(S)	<input type="checkbox"/>	All improvements have been removed from the required right of way
ANTICIPATED DATE OF POSSESSION	<input type="checkbox"/>	Improvements are currently being removed and it is anticipated that right of way will be cleared prior to the letting date
	<input type="checkbox"/>	Improvement removal will be included in the construction contract

RELOCATION ASSISTANCE

Relocation assistance was not required for this project	<input type="checkbox"/>
All parties have been relocated in accordance with FHWA regulations	<input type="checkbox"/>

Notes/Comments:

LPA		Right of Way Director	
Printed Name		Printed Name	D. V. Long
Signature		Signature	<i>[Signature]</i>
Date		Date	08 OCT 2015
Right of Way Supervisor		FHWA	
Printed Name	Joe Tschert	Printed Name	
Signature	<i>[Signature]</i>	Signature	
Date	10-8-15	Date	

UTILITIES AND RAIL CERTIFICATION NOTE

**KNOTT COUNTY
FD04 060 90144 01U
PEDESTRIAN BRIDGE OVER KY 899
ITEM NO. – 12-8802.00**

GENERAL PROJECT NOTE ON UTILITY PROTECTION

N/A

NOTE: DO NOT DISTURB THE FOLLOWING UTILITIES LOCATED WITHIN THE PROJECT DISTURB LIMITS

COLUMBIA GAS OF KENTUCKY HAS A 2 INCH GAS MAIN LOCATED ON PROJECT. KNOTT COUNTY WATER DISTRICT HAS A THREE (3) AND EIGHT (8) INCH WATER MAIN LOCATED ON THE PROJECT. AS-BUILT PLANS HAVE BEEN PROVIDED AS PART OF THE CONTRACTORS PROPOSAL. KENTUCKY POWER COMPANY HAS A POLE AND WIRES LOCATED NEAR THE PROJECT. CONTRACTOR SHALL USE EXTREEME CARE WHEN WORKING NEAR ALL UTILITIES AND WILL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

The Contractor is fully responsible for protection of all utilities listed above

THE FOLLOWING COMPANIES ARE RELOCATING/ADJUSTING THEIR UTILITIES WITHIN THE PROJECT LIMITS AND WILL BE COMPLETE PRIOR TO CONSTRUCTION

N/A

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE COMPANY OR THE COMPANY'S SUBCONTRACTOR AND IS TO BE COORDINATED WITH THE ROAD CONTRACT

N/A

THE FOLLOWING COMPANIES HAVE FACILITIES TO BE RELOCATED/ADJUSTED BY THE ROAD CONTRACTOR AS INCLUDED IN THIS CONTRACT

N/A

THE FOLLOWING RAIL COMPANIES HAVE FACILITIES IN CONJUNCTION WITH THIS PROJECT AS NOTED

- No Rail Involved Minimal Rail Involved (See Below) Rail Involved (See Below)

UTILITIES AND RAIL CERTIFICATION NOTE

**KNOTT COUNTY
FD04 060 90144 01U
PEDESTRIAN BRIDGE OVER KY 899
ITEM NO. – 12-8802.00**

UNDERGROUND FACILITY DAMAGE PROTECTION – BEFORE YOU DIG

The contractor shall make every effort to protect underground facilities from damage as prescribed in the Underground Facility Damage Protection Act of 1994, Kentucky Revised Statute KRS 367.4901 to 367.4917. It is the contractor's responsibility to determine and take steps necessary to be in compliance with federal and state damage prevention directives. The contractor is instructed to contact KY 811 for the location of existing underground utilities. Contact shall be made a minimum of two (2) and no more than ten (10) business days prior to excavation.

The contractor shall submit Excavation Locate Requests to the Kentucky Contact Center (KY 811) via web ticket entry. The submission of this request does not relieve the contractor from the responsibility of contacting non-member facility owners, whom are to be contacted through their individual Protection Notification Center. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area. Non-compliance with these directives can result in the enforcement of penalties.

SPECIAL CAUTION NOTE – PROTECTION OF UTILITIES

The contractor will be responsible for contacting all utility facility owners on the subject project to coordinate his activities. The contractor will coordinate his activities to minimize and, where possible, avoid conflicts with utility facilities. Due to the nature of the work proposed, it is unlikely to conflict with the existing utilities beyond minor facility adjustments. Where conflicts with utility facilities are unavoidable, the contractor will coordinate any necessary relocation work with the facility owner and Resident Engineer. The Kentucky Transportation Cabinet maintains the right to remove or alter portions of this contract if a utility conflict occurs.

The utility facilities as noted in the previous section(s) have been determined using data garnered by varied means and with varying degrees of accuracy: from the facility owners, a result of S.U.E., field inspections, and/or reviews of record drawings. The facilities defined may not be inclusive of all utilities in the project scope and are not Level A quality, unless specified as such. It is the contractor's responsibility to verify all utilities and their respective locations before excavating.

Please Note: The information presented in this Utility Note is informational in nature and the information contained herein is not guaranteed.

UTILITIES AND RAIL CERTIFICATION NOTE

**KNOTT COUNTY
FD04 060 90144 01U
PEDESTRIAN BRIDGE OVER KY 899
ITEM NO. – 12-8802.00**

AREA UTILITIES CONTACT LIST

<u>Utility Company/Agency</u>	<u>Contact Name</u>	<u>Contact Information</u>
KY POWER COMPANY	ELLIS McKNIGHT	606-436-1329
COLUMBIA GAS OF KY	MATT BROWN	859-288-0298
KNOTT COUNTY WATER & SEWER	L.J. TURNER	606-642-3582

09 JUN 2017

REVISED ADDENDUM #1: 7-10-17

Item No.	12 - 8802	Project Mgr.	KYTC\JOHNM.JOHNS ON
		County	KNOTT
		Route	KY-899
CAP #	Date of Promise	Promise made to:	Location of Promise
1	09-JUN-17	KYTC	Overall Project

CAP Description

THE CONTRACTOR SHALL CONTACT A REPRESENTATIVE OF ALICE LLOYD COLLEGE PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE THE PROJECT'S CONSTRUCTION SCHEDULE, REQUIRED WORKING SPACE, AND OTHER DETAILS RELATING TO THE CONTRACTOR'S ACTIVITIES. THIS WILL PROVIDE THE COLLEGE THE OPPORTUNITY TO COMMUNICATE ANY OPERATIONAL ISSUES THAT MAY BE IMPACTED BY CONTRACTOR'S ACTIVITIES.

THE CONTACT INFORMATION FOR THE COLLEGE IS AS FOLLOWS:

DAVID JOHNSON VICE PRESIDENT OF BUSINESS AFFAIRS (606) 368-6031
RYAN GIBSON DIRECTOR OF PHYSICAL PLANT (606) 368-6130
TAMMI SLONE (CONTACT ASSISTANCE FOR MENIFEE HUFF)(606) 368-6006

CAP #	Date of Promise	Promise made to:	Location of Promise
2	09-JUN-17	KYTC	Overall Project

CAP Description

THE PREFABRICATED BRIDGE SHALL BE PAINTED A COLOR AS DESIGNATED BY REPRESENTATIVES OF ALICE LLOYD COLLEGE. PLEASE USE THE PROVIDED CONTACT INFORMATION TO COORDINATE THIS DECISION. SEE THE PREFABRICATED BRIDGE SECTION OF THE GENERAL NOTES IN THE STRUCTURE PLANS FOR MORE INFORMATION.

PART II
SPECIFICATIONS AND STANDARD DRAWINGS

SPECIFICATIONS REFERENCE

Any reference in the plans or proposal to previous editions of the *Standard Specifications for Road and Bridge Construction* and *Standard Drawings* are superseded by *Standard Specifications for Road and Bridge Construction, Edition of 2012* and *Standard Drawings, Edition of 2016*.

SUPPLEMENTAL SPECIFICATIONS

The contractor shall use the Supplemental Specifications that are effective at the time of letting.
The Supplemental Specifications can be found at the following link:

<http://transportation.ky.gov/Construction/Pages/Kentucky-Standard-Specifications.aspx>

11C

SPECIAL NOTE FOR DRILLED SHAFTS

1.0 DESCRIPTION. Furnish all equipment, materials and labor necessary for constructing reinforced concrete drilled shafts in cylindrically excavated holes according to the details shown on the plans or as the Engineer directs. Construct the shaft to the lines and dimensions shown on the plans, or as the Engineer directs. Section references herein are to the Department's 2012 Standard Specifications for Road and Bridge Construction.

2.0 MATERIALS.

2.1 Concrete. Use Class A Modified concrete unless otherwise shown on the plans. The slump at the time of placement shall be 6.5 to 9.5 inches, the coarse aggregate shall be size 67, 68, 78, 8 or 9M, and the water/cementitious material ratio shall not exceed 0.45. Include water reducing and retarding admixtures. Type F high range water reducers used in combination with retarding admixtures or Type G high range water reducers fully meeting trial batch requirements are permitted and Class F fly ash is permitted in conformance with Section 601. Design the mix such that the concrete slump exceeds 4 inches at 4 hours after batching. If the estimated concrete transport, plus time to complete placement, exceeds 4 hours, design the concrete to have a slump that exceeds 4 inches or more for the greater time after batching and demonstrate that the slump requirement can be achieved after the extended time period using a trial batch.

Perform trial batches prior to beginning drilled shaft construction in order to demonstrate the adequacy of the proposed concrete mix. Demonstrate that the mix to be used will meet the requirements for temperature, slump, air content, water/cementitious material ratio, and compressive strength. Use the ingredients, proportions and equipment (including batching, mixing, and delivery) to be used on the project. Make at least 2 independent consecutive trial batches of 3 cubic yards each using the same mix proportions and meeting all specification requirements for mix design approval. Submit a report containing these results for slump, air content, water/cement ratio, temperature, and compressive strength and mix proportions for each trial batch to the Engineer for review and approval. Failure to demonstrate the adequacy of the concrete mix, methods, or equipment to the Engineer is cause for the Engineer to require appropriate alterations in concrete mix, equipment, and/or method by the Contractor to eliminate unsatisfactory results. Perform additional trial batches required to demonstrate the adequacy of the concrete mix, method, or equipment.

2.2 Steel Reinforcement. Provide Grade 60 deformed bars conforming to Section 811 of the Standard Specifications. Rail steel is permitted for straight bars only. Place according to Section 602 of the Standard Specifications, this Special Note, and the plans. Use non-corrosive centering devices and feet to maintain the specified reinforcement clearances.

2.3 Casings. Provide casing meeting the requirements of ASTM A 252 Grade 2 or better unless otherwise specified. Ensure casing is smooth, clean, watertight, true and straight, and of ample strength to withstand handling, installation, and extraction stresses and the pressure of both concrete and the surrounding earth materials. Ensure the outside diameter of casing is not less than the specified diameter of shaft.

Use only continuous casings. Cut off the casing at the prescribed elevation and trim to within tolerances prior to acceptance. Extend casing into bedrock a sufficient distance to stabilize the shaft excavation against collapse, excessive deformation, and/or flow of water if required and/or shown on the plans.

Install from the work platform continuous casing meeting the design thickness requirements, but not less than 3/8 inch, to the elevations shown on the plans. When drilled

11C

shafts are located in open water areas, extend casings above the water elevation to the plan tip elevation to protect the shaft concrete from water action during concrete placement and curing. All casing is permanent unless temporary casing is specified in the contract drawings or documents. Permanent casing is incidental to the applicable drilled shaft unit bid price unless noted otherwise in the contract. Temporary casing may be required for drilled shafts not socketed into bedrock. If temporary surface casings are used, extend each casing up to the work platform. Remove all temporary surface casing prior to final acceptance unless otherwise permitted by the Central Office Construction Engineer.

Ensure casing splices have full penetration butt welds conforming to the current edition of AWS D1.1 with no exterior or interior splice plates and produce true and straight casing.

2.4 Slurry. When slurry is to be used for installation of the Drilled Shaft, submit a detailed plan for its use and disposal. The plan should include, but not be limited to the following:

- 1) Material properties
- 2) Mixing requirements and procedures
- 3) Testing requirements
- 4) Placement procedures
- 5) Disposal techniques

Obtain the Central Office Division of Construction's approval for the slurry use and disposal plan before installing drilled shafts.

2.5 Tremies. Provide tremies of sufficient length, weight, and diameter to discharge concrete at the shaft base elevation. Ensure the tremie diameter is least 6 times the maximum size coarse aggregate to be used in the concrete mix and no less than 10 inches. Provide adequate wall thickness to prevent crimping or sharp bends that restrict concrete placement. Support tremies used for depositing concrete in a dry drilled shaft excavation so that the free fall of the concrete does not cause the shaft excavation to cave or slough. Maintain a clean and smooth tremie surface to permit both flow of concrete and unimpeded withdrawal during concrete placement. Do not allow any aluminum parts to contact the concrete. Construct tremies used to deposit concrete for wet excavations so that they are watertight and will readily discharge concrete.

2.6 Concrete Pumps. Provide pump lines with a minimum diameter of 5 inches and watertight joints.

2.7 Drop Chutes. Do not use aluminum drop chutes.

3.0 CONSTRUCTION.

3.1 Preconstruction.

3.1.1 Prequalification. The Department will require prequalification by the Division of Construction Procurement before accepting a bid for the construction of Drilled Shafts.

3.1.2 Pre-Bid Inspection. Inspect both the project site and all subsurface information, including any soil or rock samples, prior to submitting a bid. Contact the Geotechnical Branch (502-564-2374) to schedule a viewing of the subsurface information. Failure to inspect the project site and view the

11C

subsurface information will result in the forfeiture of the right to file a claim based on site conditions and may result in disqualification from the project.

3.1.3 Drilled Shaft Installation Plan. Upon request, the Department will review a Drilled Shaft Installation Plan. Submit the plan no later than 45 calendar days prior to constructing drilled shafts. Items covered in this plan should include, but not be limited to the following:

- 1) Name and experience record of jobsite drilled shaft superintendent and foremen in charge of drilled shaft operations for each shift.
- 2) List and size of proposed equipment including cranes, drills, augers, bailing buckets, final cleaning equipment, de-sanding equipment, slurry pumps, core sampling equipment, tremies or concrete pumps, casings, etc.
- 3) Details of overall construction operation sequence and the sequence of shaft construction in the bents or groups.
- 4) Details of shaft excavation methods including methods to over-ream or roughen shaft walls, if necessary.
- 5) Details of slurry when the use of slurry is anticipated. Include methods to mix, circulate, and de-sand the proposed slurry. Provide details of proposed testing, test methods, sampling methods, and test equipment.
- 6) Details of proposed methods to clean shaft and inside of casing after initial excavation.
- 7) Details of reinforcement handling, lifting, and placement including support and method to center in shaft. Also include rebar cage support during concrete placement and temporary casing removal.
- 8) Details of concrete placement including procedures for concrete tremie or pump. Include initial placement, raising during placement, and overfilling of the shaft to expel contaminated concrete.
- 9) Required submittals including shop drawings and concrete design mixes.
- 10) Other information shown in the plans or requested by the Engineer.
- 11) Special considerations for wet construction.
- 12) Details of environmental control procedures to protect the environment from discharge of excavation spoil, slurry (natural and mineral), and concrete over-pour.

The Division of Construction will review the submitted procedure and provide comments and recommendations. The Contractor is responsible for satisfactory construction and ultimate performance of the Drilled Shaft.

3.2 General Construction. Construct drilled shafts as indicated in the plans or described in this Special Note by either the dry or wet method. When the plans describe a particular method of construction, use this method unless the Engineer permits otherwise. When the plans do not describe a particular method, propose a method on the basis of its suitability to the site conditions. Approval of this proposed method is contingent upon the satisfactory results of the technique shaft.

The construction of the first drilled shaft or technique shaft will be used to determine if the methods and equipment used by the contractor are sufficient to produce a completed shaft meeting the requirements of the plans and specifications. Ability to control dimensions and alignment of excavations within tolerances; to seal the casing into impervious materials; to prevent caving or deterioration of subsurface materials by the use of slurry or other means; to

11C

properly clean the completed shaft excavation; to construct excavations in open water areas when required by the plans; to establish methods for boring or over-reaming when required by the plans; to determine the elevation of ground water; to satisfactorily handle, lift, place, and support the reinforcement cage; to satisfactorily place concrete meeting the specifications within the prescribed time frame; and to satisfactorily execute any other necessary construction operations will be evaluated during construction of the first shaft(s). Revise the methods and equipment as necessary at any time during the construction of the first shaft when unable to satisfactorily carry out any of the necessary operations described above or unable to control the dimensions and alignment of the shaft excavation within tolerances. Accurately locate technique so they may be used in the finished structure unless directed otherwise in the contract document or by the Engineer.

If at any time the Contractor fails to satisfactorily demonstrate, to the satisfaction of the Engineer, the adequacy of methods or equipment and alterations are required, additional technique shafts will be required at no additional cost to the Department and with no extension of contract time. Additional technique shafts shall be located as near as possible to the proposed production shafts but in a location as not to interfere with other construction activities. Once approval has been given to construct production shafts, no changes will be permitted in the methods or equipment used to construct the satisfactory shaft without written approval of the Engineer.

Do not make a claim against the Department for costs of construction delays, or any materials, labor, or equipment that may be necessary due to the Contractor's failure to furnish drilled shafts of a length sufficient to obtain the required bearing values, or for variations in length due to subsurface conditions that may be encountered. Soundings, boring logs, soil profiles, or other subsurface data included in the Contract documents are used by the Department for design and making preliminary estimates of quantities and should be used only at the risk of the Contractor for determining equipment, materials, or labor necessary for drilling shafts as required by the contract.

When necessary, set temporary removable surface casing. Use surface casing of sufficient length to prevent caving of the surface soils and to aid in maintaining shaft position and alignment. Pre-drilling with slurry and/or over-reaming to the outside diameter of the casing may be required to install the surface casing at some sites.

Provide equipment capable of constructing shafts to the deepest shaft depth shown in the plans plus 15 feet, 20 percent greater than the longest shaft (measured from the ground or water surface to the tip of the shaft), or 3 times the shaft diameter, whichever is greater. Blasting excavation methods are not permitted.

Use permanent casing unless otherwise noted in the Contract. Place casing as shown on the plans before beginning excavation. If full penetration cannot be attained, the Engineer may direct that excavation through the casing be accomplished and the casing advanced until reaching the plan tip elevation. In some cases, over-reaming to the outside diameter of the casing may be required before placing the casing. Cut off the casing at the prescribed elevation and leave the remainder of the casing in place. Do not use vibratory hammers for casing installation within 50 feet of shafts that have been completed less than 24 hours.

3.2.1 Dry Construction Method. Use the dry construction method only at sites where the ground water table and soil conditions (generally stiff to hard clays or rock above the water table) make it feasible to construct the shaft in a relatively dry excavation and where the sides and bottom of the shaft are stable and may be visually inspected by the Engineer prior to placing the concrete. The dry construction method consists of drilling the shaft excavation, removing accumulated seepage water and loose material from the excavation, and placing the shaft concrete in a relatively dry excavation.

11C

3.2.2 Wet Construction Method. Use the wet construction method at all sites where it is impractical to excavate by the dry method. The wet construction method consists of drilling the shaft excavation below the water table, keeping the shaft filled with water (including natural slurry formed during the drilling process) or slurry as defined in part 2.4 of this Special Note, desanding and cleaning the slurry as required, final cleaning of the excavation by means of a bailing bucket, air lift, submersible pump or other approved devices and placing the shaft concrete (with a tremie or concrete pump beginning at the shaft bottom) which displaces the water or slurry as concrete is placed.

Where drilled shafts are located in open water areas, construct the shafts by the wet method using casings extending from above water elevation to the plan casing tip elevation to protect the shaft concrete from water action during placement and curing. Install the casing in a manner that will produce a positive seal at the bottom of the casing.

3.3 Slurry. When the Contractor elects to use slurry, adjust construction operations so that the slurry is in contact with the bottom 5 feet of the shaft for less than 4 hours unless the Engineer approves otherwise. If the 4-hour limit is exceeded, over-ream the bottom 5 feet of shaft.

3.4 Cleaning. Over-reaming, cleaning, or wire brushing the sidewalls of the shaft excavation and permanent casings may be necessary to remove the depth of softening or to remove excessive slurry cake buildup as indicated by sidewall samples or other test methods employed by the Engineer. Over-ream around the perimeter of the excavation a minimum depth of 1/2 inch and maximum depth of 3 inches.

3.5 Subsurface Exploration. Take subsurface exploration borings when shown on the plans or as the Engineer directs to determine the character of the material that the shaft extends through and the material directly below the shaft excavation. Complete subsurface exploration borings prior to beginning excavation for any drilled shaft in a group. Unless directed otherwise, extend subsurface exploration borings a minimum depth of 3 shaft diameters but not less than 10 feet below the bottom of the anticipated tip of drilled shaft excavation as shown on the plans. For subsurface exploration borings where soil sampling is required use thin-wall tube samples and perform standard penetration tests according to the Department's current Geotechnical Manual. When shafts extend into bedrock, soil samples are not required unless otherwise specified. Perform rock core drilling according to the Department's Geotechnical Manual. When the Engineer directs, perform additional subsurface exploration borings prior to drilled shaft construction. Measure soil samples and/or rock cores and visually identify and describe them on the subsurface log according to the Department's current Geotechnical Manual. Subsurface exploration borings must be performed by contractors/consultants prequalified by the Department's Division of Professional Services for Geotechnical Drilling Services at the time that field work begins.

The Engineer or geotechnical branch representative may be on-site during the subsurface exploration process to evaluate the soil and/or rock core samples. The Engineer or geotechnical branch representative will determine the need to extend the borings to depths greater than the depths previously specified. Handle, label, identify, and store soil and/or rock samples according to the Department's current Geotechnical Manual and deliver them with the subsurface logs to the geotechnical branch's rock core lab in Frankfort within 24-hours of completing the borings, unless directed otherwise.

The Engineer will inspect the soil samples and/or cores and determine the final depth of required excavation (final drilled shaft tip elevation) based on evaluation of the material's suitability. The Engineer will establish the final tip elevations for shaft locations, other than

11C

those for which subsurface exploration borings have been performed, based on the results of the subsurface exploration. Within 15 calendar days after completion of the subsurface exploration borings, the Engineer will notify the contractor of the final tip elevations for shaft locations.

3.6 Excavations. The plans indicate the expected depths, the top of shaft elevations, and the estimated bottom of shaft elevations between which the drilled shaft are to be constructed. Drilled shafts may be extended deeper when the Engineer determines that the material encountered while drilling the shaft excavation is unsuitable and/or is not the same as anticipated in the design of the drilled shaft. Drilled shafts may be shortened when the Engineer determines the material encountered is better than that anticipated.

Begin drilled shaft excavation the excavation, excavation inspection, reinforcement placement, and concrete placement can be completed as one continuous operation. Do not construct new shafts within 24 hours adjacent to recently completed shafts if the center-to-center spacing is less than 3 shaft diameters.

Dispose of excavated material removed from the shaft according to the Standard Specifications or the contract documents.

Do not allow workmen to enter the shaft excavation for any reason unless both a suitable casing has been installed and adequate safety equipment and procedures have been provided to the workmen entering the excavation. Recommended Procedures for the Entry of Drilled Shaft Foundation Excavations, prepared by ADSC: The International Association of Foundation Drilling provides guideline recommendations for down-hole entry of drilled excavations.

3.7 Obstructions. Remove subsurface obstructions at drilled shaft locations. Such obstructions may include man-made materials such as old concrete foundations or natural materials such as boulders. Blasting is not permitted.

3.8 Inspections of Excavations. Provide equipment for checking the dimensions and alignment of each shaft excavation. Determine the dimensions and alignment of the shaft excavation under the observation and direction of the Engineer. Provide equipment necessary to verify shaft cleanliness for the method of inspection selected by the Engineer.

Measure final shaft depths with a weighted tape or other approved methods after final cleaning. Ensure the base of each shaft has less than ½ inch of sediment at the time of concrete placement. For dry excavations, do not allow the depth of water to exceed 3 inches for tremie or pump methods of concrete placement. Verify shaft cleanliness to the Engineer using direct visual inspection or other method the Engineers determines acceptable. Video camera or underwater inspection procedures may be used if specified in the plans. Inspect the side surfaces of rock sockets to ensure they are rough and of such condition to ensure bond between the shaft concrete and the rock. Calipers, bent rods, or other devices may be used to inspect the diameter and roughness of rock sockets. When the Engineer directs, mechanically roughen surfaces found to be smooth.

3.9 Reinforcing Steel Cage Fabrication and Placement. Assemble the reinforcing steel cage, consisting of longitudinal bars, ties, spirals, cage stiffener bars, spacers, centering devices, and other necessary appurtenances and place as a prefabricated unit immediately after the shaft excavation is inspected and accepted, and just prior to concrete placement.

Tie the reinforcing steel with 100 percent double-wire ties and provide support so that it will remain within allowable tolerances for position. Locate splices as shown on the plans. Splice no more than 50 percent of the longitudinal reinforcing within 2-lap splice lengths of any location or within 3 feet of the splice location if approved mechanical connectors are used. All splices are to be in accordance with plan details. Use bands, temporary cross ties,

11C

etc. as required to provide a reinforcement cage of sufficient rigidity to prevent racking, permanent deformations, etc. during installation.

Use concrete centering devices or other approved non-corrosive centering devices at sufficient intervals along the length of the reinforcement cage to ensure concentric spacing for the entire cage length. As a minimum, provide a set of non-corrosive centering devices at intervals not exceeding 5 feet throughout the length of the shaft. When the size of the longitudinal reinforcement exceeds one inch in diameter the minimum spacing may be increased to 10 feet. As a minimum, provide a set of centering devices within 2 feet of the top and 2 feet of the bottom of the shaft. In addition provide one set of centering devices 2 feet above and 2 feet below each change in shaft diameter. Provide feet (bottom supports) at the bottom of the shaft on vertical bars. As a minimum, provide non-corrosive centering devices at 60 degree intervals around the circumference of the shaft to maintain the required reinforcement clearances. Ensure the centering devices maintain the specified annular clearance between the outside of the reinforcing cage and the side of the excavated hole or casing.

Concrete centering devices and feet will be constructed of concrete equal in quality and durability to the concrete specified for the shaft. Use epoxy coated centering devices fabricated from reinforcing steel. Use feet (bottom supports) of adequate size and number to assure the rebar cage is the proper distance above the bottom as determined by part 3.11 3) of this Special Note. The feet are not intended to support the weight of the cage. In the event that the shaft has been excavated below the anticipated tip elevation, extend the reinforcing cage at the tip (low) end by lap splices, mechanical connectors, or welded splices conforming to the Standard Specifications. In this instance, splices need not be staggered and 100 percent of the reinforcing bars may be spliced at a given location. The bottom 12 inches of the shaft may not be reinforced when below plan tip elevation.

During concrete placement, support the reinforcing cage at or near the top of shaft such that the concrete feet are positioned approximately one inch above the bottom of shaft excavation. Not sooner than 24 hours after the completion of concrete placement, remove temporary supports. Provide the needed equipment, including extra cranes if necessary, to provide this cage support.

Prior to placing the reinforcement cage, demonstrate to the satisfaction of the Engineer that the fabrication and handling methods to be used will result in a reinforcing cage placed in the proper position, with the proper clearances, and without permanent bending, squashing, or racking of the reinforcement cage. During this demonstration bring the cage to an upright position, lower into a shaft excavation, and support as if for concrete placement.

Check the elevation of the top of the reinforcing cage before and after the concrete is placed. If the reinforcing cage is not maintained within the specified tolerances, correct to the satisfaction of the Engineer. Do not construct additional shafts until the contractor has modified his reinforcing cage support to obtain the required tolerances.

3.10 Concrete Placement. Place concrete according to the applicable portions of the Standard Specifications and with the requirements set forth herein. Do not apply the provisions of the Special Note 6U for Structural Mass Concrete.

Place concrete as soon as practical after reinforcing steel placement but no later than 4 hours after completion of the shaft excavation. Place concrete continuously from the bottom to above the top elevation of the shaft. For shafts that extend above ground or water surface, place concrete continuously after the shaft is full until good quality concrete is evident at the top of the shaft. Form any portion of the shaft above ground with a removable form or other approved method to the dimensions shown on the plans.

For shafts constructed in the wet with the top of the shaft below the water surface and below top of casing, place concrete to approximately one shaft diameter but no less than 2 feet above the top of shaft elevation. Remove contaminated concrete and deleterious material, as

11C

determined by the Engineer, accumulated above the top of shaft elevation immediately after completing concrete placement. Deleterious material and contaminated concrete may be airlifted under a head of water or slurry provided that the head is maintained at or near the exterior water surface elevation. Carefully remove any concrete remaining above plan top of shaft after curing and excess casing removal.

Place concrete either by free fall, through a tremie, or concrete pump. Use the free fall placement method in dry holes only. The maximum height of free fall placement is 20 feet. Do not allow concrete placed by free fall to contact either the reinforcing cage or hole sidewall. Drop chutes may be used to direct concrete to the base during free fall placement.

Place concrete in the shaft in one continuous operation. Maintain a minimum slump of 4 inches or more throughout the placement for 4 hours after batching. Adjust approved admixtures in the concrete mix for the conditions encountered on the job so that the concrete remains in a workable plastic state throughout the placement. Perform slump loss tests to demonstrate that the concrete will maintain a 4-inch or greater slump for a period of time equal to the estimated transport plus the 2-hour placement time, but not less than 4 hours.

When the Engineer determines the concrete placement methods and/or equipment during construction of any technique and/or production shafts to be inadequate, make appropriate alterations to eliminate unsatisfactory results.

Drilled shafts not meeting the concrete placement requirements of this Special Note or contract plans are unacceptable. Correct all unacceptable completed shafts to the satisfaction of the Engineer.

3.10.1 Tremie Placement. Tremies may be used for concrete placement in either wet or dry holes. Extend the tremie to the shaft base elevation before starting underwater placement. Valves, bottom plates, or plugs may be used only if concrete discharge can begin approximately 2 inches above the excavation bottom. Remove plugs from the excavation unless otherwise approved by the Engineer. Maintain tremie discharge at or near the bottom of excavation as long as practical during concrete placement. Immerse tremie discharge end as deep as practical in the concrete but not less than 10 feet.

If at any time during the concrete pour the tremie line orifice is removed from the fluid concrete column and discharges concrete above the rising concrete surface, the entire drilled shaft is considered defective. In such case, remove the reinforcing cage and concrete, complete any necessary sidewall cleaning or over-reaming as directed by the Engineer, and repour the shaft.

3.10.2 Pumped Concrete. Concrete pumps and lines may be used for concrete placement in either wet or dry excavations. Do not begin concrete placement until the pump line discharge orifice is at the shaft base elevation.

For wet excavations, use a plug or similar device to separate the concrete from the fluid in the hole until pumping begins. Remove the plug unless otherwise approved by the engineer.

Ensure the discharge orifice remains at least 10 feet below the surface of the fluid concrete. When lifting the pump line during concrete placement, reduce the line pressure until the orifice has been repositioned at a higher level in the excavation.

If at any time during the concrete pour the pump line orifice is removed from the fluid concrete column and discharges concrete above the rising concrete level, the Department will consider the shaft defective. In such case, remove the reinforcing cage and concrete, complete any necessary sidewall cleaning or over-reaming as the Engineer directs, and repour the shaft.

11C

3.10.3 Drop Chutes. Drop chutes may be used to direct placement of free fall concrete in excavations where the maximum depth of water does not exceed one inch. Do not use the free fall method of placement in wet excavations. Concrete may be placed through either a hopper at the top of the tube or side openings as the drop chute is retrieved during concrete placement. Reduce the height of free fall and/or reduce the rate of concrete flow into the excavation if the concrete placement causes the shaft excavation to cave or slough, or if the concrete strikes the reinforcing cage or sidewall. When the Engineer determines free fall placement cannot be accomplished satisfactorily, use either tremie or pumping to accomplish the pour.

3.11 Construction Tolerances. The following construction tolerances apply to drilled shafts unless otherwise stated in the contract document:

- 1) Construct drilled shaft within 3 inches of plan position in the horizontal plane at the top of the shaft.
- 2) Do not vary the vertical alignment of a shaft excavation from the plan alignment by more than 1/4 inch per foot of depth or 6 inches total.
- 3) Maintain the top of the reinforcing steel cage no more than 6 inches above and no more than 3 inches below plan position.
- 4) All casing diameters shown on the plans refer to O.D. (outside diameter) dimensions. The casing dimensions are subject to American Pipe Institute tolerances applicable to regular steel pipe. A casing larger in diameter than shown in the plans may be used, at no additional cost, with prior approval by the Department.
- 5) Maintain the top of shaft concrete within ± 3 inches from the plan top of shaft elevation, measured after excess shaft concrete has been removed.
- 6) Design excavation equipment and methods so that the completed shaft excavation will have a planar bottom. Maintain the cutting edges of excavation equipment normal to the vertical axis of the equipment within a tolerance of $\pm 3/8$ inch per foot of diameter. The tip elevation of the shaft has a tolerance of ± 6 inches from final shaft tip elevation unless otherwise specified in the plans.

Drilled shaft excavations and completed shafts not constructed within the required tolerances are unacceptable. Correct all unacceptable shaft excavations and completed shafts to the satisfaction of the Engineer. When a shaft excavation is completed with unacceptable tolerances, present corrective measures designed by a registered Professional Engineer for approval.

4.0 MEASUREMENT.

4.1 Drilled Shafts. The Department will not measure for payment any trial batches required to demonstrate the adequacy of the concrete mix, method, or equipment; concrete required to fill an oversized casing or oversized excavation; obstruction removal; over-reaming or sidewall cleaning; inspection work or inspection equipment; materials or work necessary, including engineering analyses and redesign, to alter unacceptable work methods or to complete corrections for unacceptable work; and will consider them incidental to the Drilled Shaft. Unless noted otherwise in the contract documents, casing is incidental to the drilled shaft.

4.1.1 Drilled Shaft, Common. The Department will measure the length, in linear feet, of drilled shaft above the top of rock elevation shown on the plans. The

11C

Department will consider this quantity Drilled Shaft, Common regardless of the character of material actually encountered.

4.1.2 Drilled Shafts, Solid Rock. The Department will measure the length, in linear feet, of drilled shaft below the top of rock elevation shown on plans. The Department will consider this quantity Drilled Shafts, Solid Rock regardless of the character of material actually encountered during excavation.

4.2 Technique Shaft. The Department will pay for technique shaft at the contract unit price per each as detailed on the plans or as directed by the Engineer. This will constitute full compensation for all costs incurred during installation as described herein for 'Drilled Shaft' or in the contract documents. No additional compensation beyond the number of technique shafts allowed for in the plans will be permitted for additional technique shafts required because of failure to demonstrate adequacy of methods.

4.3 Rock Coring and Rock Sounding. The Department will measure Rock Sounding and Rock Coring shown on the plans, as specified in part 3.5 of this Special Note, and as the Engineer directs, in linear feet to the nearest 0.1-foot. If soil samples are specified in the contract documents they will be incidental to the unit price bid for Rock Sounding. The Department will not measure or pay for subsurface exploration performed deeper than the elevations indicated on the plans and/or in this Special Note, unless directed by the Engineer, and will consider it incidental to these items of work. Additionally, the Department will consider all mobilization, equipment, labor, incidental items, and operations necessary to complete the boring operations incidental to these items of work.

5.0 PAYMENT. The Department will make payment for the completed and accepted quantities under the following:

<u>Code</u>	<u>Pay Item</u>	<u>Pay Unit</u>
----	Drilled Shaft, Diameter*, Common	Linear Foot
----	Drilled Shaft, Diameter*, Solid Rock	Linear Foot
----	Technique Shaft	Each
20745ED	Rock Sounding	Linear Foot
20746ED	Rock Coring	Linear Foot

* See Plan Sheets for sizes of shafts.

The Department will consider payment as full compensation for all work required in this note.

June 15, 2012

PART III

EMPLOYMENT, WAGE AND RECORD REQUIREMENTS

**TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS**

REVISED ADDENDUM #1: 7-10-17

**LABOR AND WAGE REQUIREMENTS
APPLICABLE TO OTHER THAN FEDERAL-AID SYSTEM PROJECTS**

- I. Application
- II. Nondiscrimination of Employees (KRS 344)

I. APPLICATION

1. These contract provisions shall apply to all work performed on the contract by the contractor with his own organization and with the assistance of workmen under his immediate superintendence and to all work performed on the contract by piecework, station work or by subcontract. The contractor's organization shall be construed to include only workmen employed and paid directly by the contractor and equipment owned or rented by him, with or without operators.

2. The contractor shall insert in each of his subcontracts all of the stipulations contained in these Required Provisions and such other stipulations as may be required.

3. A breach of any of the stipulations contained in these Required Provisions may be grounds for termination of the contract.

3. If the contractor is in control of apprenticeship or other training or retraining, including on-the-job training programs, he shall not discriminate against an individual because of his race, color, religion, national origin, sex, disability or age forty (40) and over, in admission to, or employment in any program established to provide apprenticeship or other training.

4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representative of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment. The contractor will take such action with respect to any subcontract or purchase order as the administrating agency may direct as a means of enforcing such provisions, including sanctions for non-compliance.

Revised: January 25, 2017

II. NONDISCRIMINATION OF EMPLOYEES

**AN ACT OF THE KENTUCKY
GENERAL ASSEMBLY TO PREVENT
DISCRIMINATION IN EMPLOYMENT
KRS CHAPTER 344
EFFECTIVE JUNE 16, 1972**

The contract on this project, in accordance with KRS Chapter 344, provides that during the performance of this contract, the contractor agrees as follows:

1. The contractor shall not fail or refuse to hire, or shall not discharge any individual, or otherwise discriminate against an individual with respect to his compensation, terms, conditions, or privileges of employment, because of such individual's race, color, religion, national origin, sex, disability or age (forty and above); or limit, segregate, or classify his employees in any way which would deprive or tend to deprive an individual of employment opportunities or otherwise adversely affect his status as an employee, because of such individual's race, color, religion, national origin, sex, disability or age forty (40) and over. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

2. The contractor shall not print or publish or cause to be printed or published a notice or advertisement relating to employment by such an employer or membership in or any classification or referral for employment by the employment agency, indicating any preference, limitation, specification, or discrimination, based on race, color, religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, except that such a notice or advertisement may indicate a preference, limitation, or specification based on religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, when religion, national origin, sex, or age forty (40) and over, or because the person is a qualified individual with a disability, is a bona fide occupational qualification for employment.

EXECUTIVE BRANCH CODE OF ETHICS

REVISED ADDENDUM #1: 7-10-17

In the 1992 regular legislative session, the General Assembly passed and Governor Brereton Jones signed Senate Bill 63 (codified as KRS 11A), the Executive Branch Code of Ethics, which states, in part:

KRS 11A.040 (7) provides:

No present or former public servant shall, within six (6) months following termination of his office or employment, accept employment, compensation, or other economic benefit from any person or business that contracts or does business with, or is regulated by, the state in matters in which he was directly involved during the last thirty-six (36) months of his tenure. This provision shall not prohibit an individual from returning to the same business, firm, occupation, or profession in which he was involved prior to taking office or beginning his term of employment, or for which he received, prior to his state employment, a professional degree or license, provided that, for a period of six (6) months, he personally refrains from working on any matter in which he was directly involved during the last thirty-six (36) months of his tenure in state government. This subsection shall not prohibit the performance of ministerial functions, including but not limited to filing tax returns, filing applications for permits or licenses, or filing incorporation papers, nor shall it prohibit the former officer or public servant from receiving public funds disbursed through entitlement programs.

KRS 11A.040 (9) states:

A former public servant shall not represent a person or business before a state agency in a matter in which the former public servant was directly involved during the last thirty-six (36) months of his tenure, for a period of one (1) year after the latter of:

- a) The date of leaving office or termination of employment; or
- b) The date the term of office expires to which the public servant was elected.

This law is intended to promote public confidence in the integrity of state government and to declare as public policy the idea that state employees should view their work as a public trust and not as a way to obtain private benefits.

If you have worked for the executive branch of state government within the past six months, you may be subject to the law's prohibitions. The law's applicability may be different if you hold elected office or are contemplating representation of another before a state agency.

Also, if you are affiliated with a firm which does business with the state and which employs former state executive-branch employees, you should be aware that the law may apply to them.

In case of doubt, the law permits you to request an advisory opinion from the Executive Branch Ethics Commission, 3 Fountain Place, Frankfort, Kentucky 40601; telephone (502) 564-7954.

Revised: January 27, 2017

Kentucky Equal Employment Opportunity Act of 1978

The requirements of the Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) shall apply to this Contract. The apparent low Bidder will be required to submit EEO forms to the Division of Construction Procurement, which will then forward to the Finance and Administration Cabinet for review and approval. No award will become effective until all forms are submitted and EEO/CC has certified compliance. The required EEO forms are as follows:

- EEO-1: Employer Information Report
- Affidavit of Intent to Comply
- Employee Data Sheet
- Subcontractor Report

These forms are available on the Finance and Administration's web page under ***Vendor Information, Standard Attachments and General Terms*** at the following address:
<https://www.eProcurement.ky.gov>.

Bidders currently certified as being in compliance by the Finance and Administration Cabinet may submit a copy of their approval letter in lieu of the referenced EEO forms.

For questions or assistance please contact the Finance and Administration Cabinet by email at **finance.contractcompliance@ky.gov** or by phone at 502-564-2874.

EMPLOYEE RIGHTS

UNDER THE FAIR LABOR STANDARDS ACT

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

FEDERAL MINIMUM WAGE

\$7.25

PER HOUR

BEGINNING JULY 24, 2009

OVERTIME PAY

At least 1½ times your regular rate of pay for all hours worked over 40 in a workweek.

CHILD LABOR

An employee must be at least **16** years old to work in most non-farm jobs and at least **18** to work in non-farm jobs declared hazardous by the Secretary of Labor.

Youths **14** and **15** years old may work outside school hours in various non-manufacturing, non-mining, non-hazardous jobs under the following conditions:

No more than

- **3** hours on a school day or **18** hours in a school week;
- **8** hours on a non-school day or **40** hours in a non-school week.

Also, work may not begin before **7 a.m.** or end after **7 p.m.**, except from June 1 through Labor Day, when evening hours are extended to **9 p.m.** Different rules apply in agricultural employment.

Contract ID: 171233
Page 49 of 54

TIP CREDIT

Employers of “tipped employees” must pay a cash wage of at least \$2.13 per hour if they claim a tip credit against their minimum wage obligation. If an employee's tips combined with the employer's cash wage of at least \$2.13 per hour do not equal the minimum hourly wage, the employer must make up the difference. Certain other conditions must also be met.

ENFORCEMENT

The Department of Labor may recover back wages either administratively or through court action, for the employees that have been underpaid in violation of the law. Violations may result in civil or criminal action.

Employers may be assessed civil money penalties of up to \$1,100 for each willful or repeated violation of the minimum wage or overtime pay provisions of the law and up to \$11,000 for each employee who is the subject of a violation of the Act's child labor provisions. In addition, a civil money penalty of up to \$50,000 may be assessed for each child labor violation that causes the death or serious injury of any minor employee, and such assessments may be doubled, up to \$100,000, when the violations are determined to be willful or repeated. The law also prohibits discriminating against or discharging workers who file a complaint or participate in any proceeding under the Act.

ADDITIONAL INFORMATION

- Certain occupations and establishments are exempt from the minimum wage and/or overtime pay provisions.
- Special provisions apply to workers in American Samoa and the Commonwealth of the Northern Mariana Islands.
- Some state laws provide greater employee protections; employers must comply with both.
- The law requires employers to display this poster where employees can readily see it.
- Employees under 20 years of age may be paid \$4.25 per hour during their first 90 consecutive calendar days of employment with an employer.
- Certain full-time students, student learners, apprentices, and workers with disabilities may be paid less than the minimum wage under special certificates issued by the Department of Labor.

For additional information:



1-866-4-USWAGE

(1-866-487-9243)

TTY: 1-877-889-5627



WWW.WAGEHOUR.DOL.GOV

U.S. Department of Labor | Wage and Hour Division

PART IV

INSURANCE

INSURANCE

REVISED ADDENDUM #1: 7-10-17

The Contractor shall procure and maintain the following insurance in addition to the insurance required by law:

- 1) Commercial General Liability-Occurrence form – not less than \$2,000,000 General aggregate, \$2,000,000 Products & Completed Aggregate, \$1,000,000 Personal & Advertising, \$1,000,000 each occurrence.
- 2) Automobile Liability- \$1,000,000 per accident
- 3) Employers Liability:
 - a) \$100,000 Each Accident Bodily Injury
 - b) \$500,000 Policy limit Bodily Injury by Disease
 - c) \$100,000 Each Employee Bodily Injury by Disease
- 4) The insurance required above must be evidenced by a Certificate of Insurance and this Certificate of Insurance must contain one of the following statements:
 - a) "policy contains no deductible clauses."
 - b) "policy contains _____ (amount) deductible property damage clause but company will pay claim and collect the deductible from the insured."
- 5) KENTUCKY WORKMEN'S COMPENSATION INSURANCE. The contractor shall furnish evidence of coverage of all his employees or give evidence of self-insurance by submitting a copy of a certificate issued by the Workmen's Compensation Board.

The cost of insurance is incidental to all contract items. All subcontractors must meet the same minimum insurance requirements.

PART V
BID ITEMS

PROPOSAL BID ITEMS

REVISED ADDENDUM #1: 7-10-17
 Page 1 of 2

171233

Report Date 6/30/17

Section: 0001 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	02230		EMBANKMENT IN PLACE	25.00	CUYD		\$	
0020	02545		CLEARING AND GRUBBING (APPROXIMATELY 0.1 ACRES)	1.00	LS		\$	
0030	02562		TEMPORARY SIGNS	88.00	SQFT		\$	
0040	02598		FABRIC-GEOTEXTILE TYPE III	239.00	SQYD		\$	
0050	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0060	02701		TEMP SILT FENCE	118.00	LF		\$	
0070	02703		SILT TRAP TYPE A	1.00	EACH		\$	
0080	02704		SILT TRAP TYPE B	1.00	EACH		\$	
0090	02706		CLEAN SILT TRAP TYPE A	1.00	EACH		\$	
0100	02707		CLEAN SILT TRAP TYPE B	1.00	EACH		\$	
0110	02720		SIDEWALK-4 IN CONCRETE	47.00	SQYD		\$	
0120	02726		STAKING	1.00	LS		\$	
0130	05963		INITIAL FERTILIZER	.02	TON		\$	
0140	05964		20-10-10 FERTILIZER	.02	TON		\$	
0150	05985		SEEDING AND PROTECTION	239.00	SQYD		\$	
0160	05992		AGRICULTURAL LIMESTONE	.02	TON		\$	
0170	23158ES505		DETECTABLE WARNINGS	96.00	SQFT		\$	

Section: 0002 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0180	01002		PERFORATED PIPE-8 IN	44.00	LF		\$	
0190	01034		PERF PIPE HEADWALL TY 4-8 IN	2.00	EACH		\$	

Section: 0003 - BRIDGE - PEDESTRIAN BRIDGE - DWG. 27393

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0200	02614		HANDRAIL-TYPE A-4	170.00	LF		\$	
0210	02998		MASONRY COATING	147.00	SQYD		\$	
0220	08001		STRUCTURE EXCAVATION-COMMON	58.00	CUYD		\$	
0230	08100		CONCRETE-CLASS A	49.50	CUYD		\$	
0240	08150		STEEL REINFORCEMENT	9,405.00	LB		\$	
0250	20637ED		DRILLED SHAFT-ROCK 48 IN	16.00	LF		\$	
0260	20745ED		ROCK SOUNDINGS	42.00	LF		\$	
0270	20746ED		ROCK CORINGS	40.00	LF		\$	
0280	21777EN		DRILLED SHAFT COMMON-54 IN	41.50	LF		\$	
0290	23541EC		ACCESS STAIRS (PRECAST CONCRETE)	1.00	LS		\$	
0300	24567ED		TRUSS BRIDGE SUPERSTRUCTURE	1.00	LS		\$	

Section: 0004 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
------	----------	-----	-------------	----------	------	-----------	----	--------

171233

PROPOSAL BID ITEMS

REVISED ADDENDUM #1: 7-10-17
Page 2 of 2

Report Date 6/30/17

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0310	02569		DEMOBILIZATION	1.00	LS		\$	