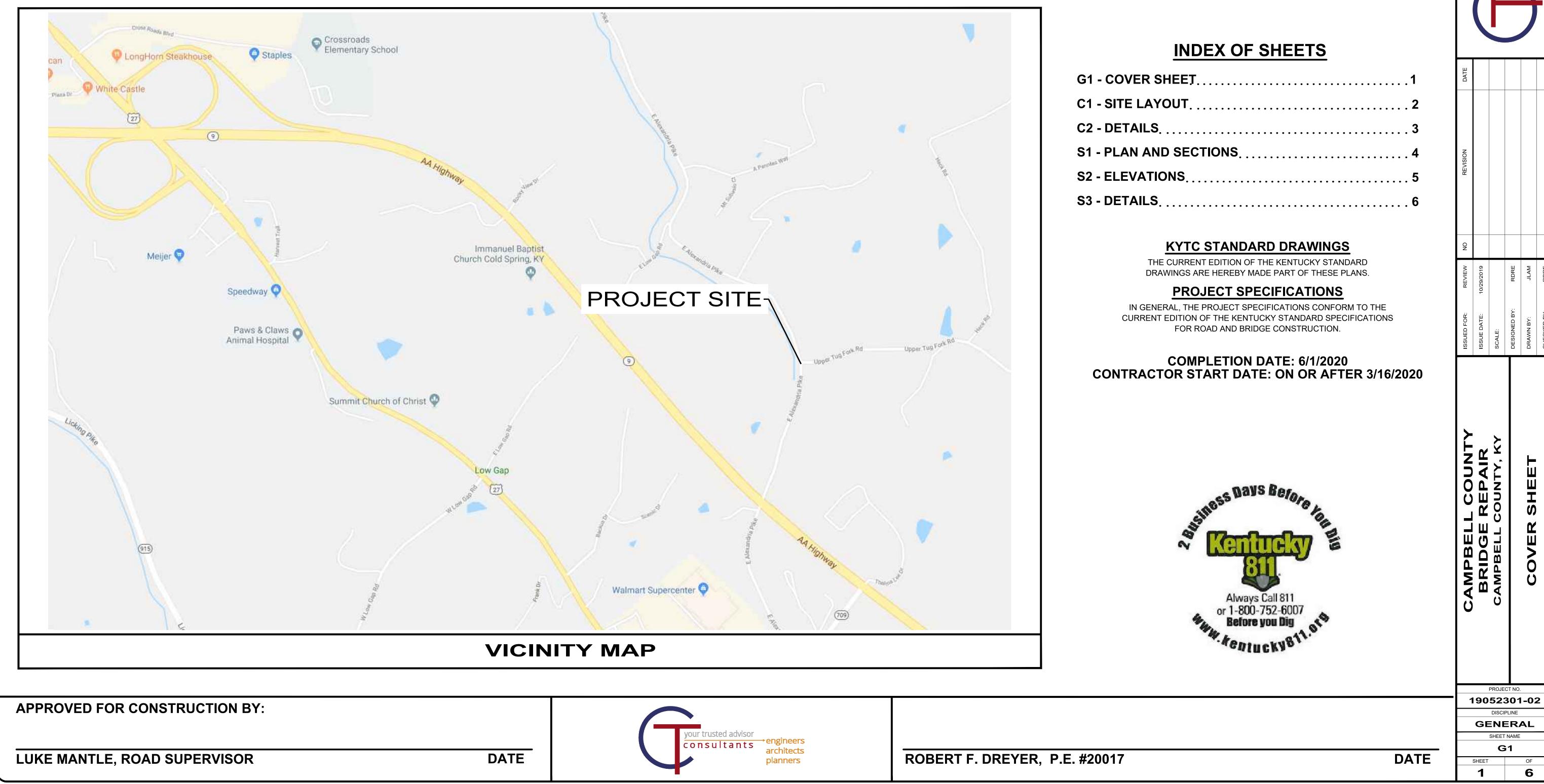
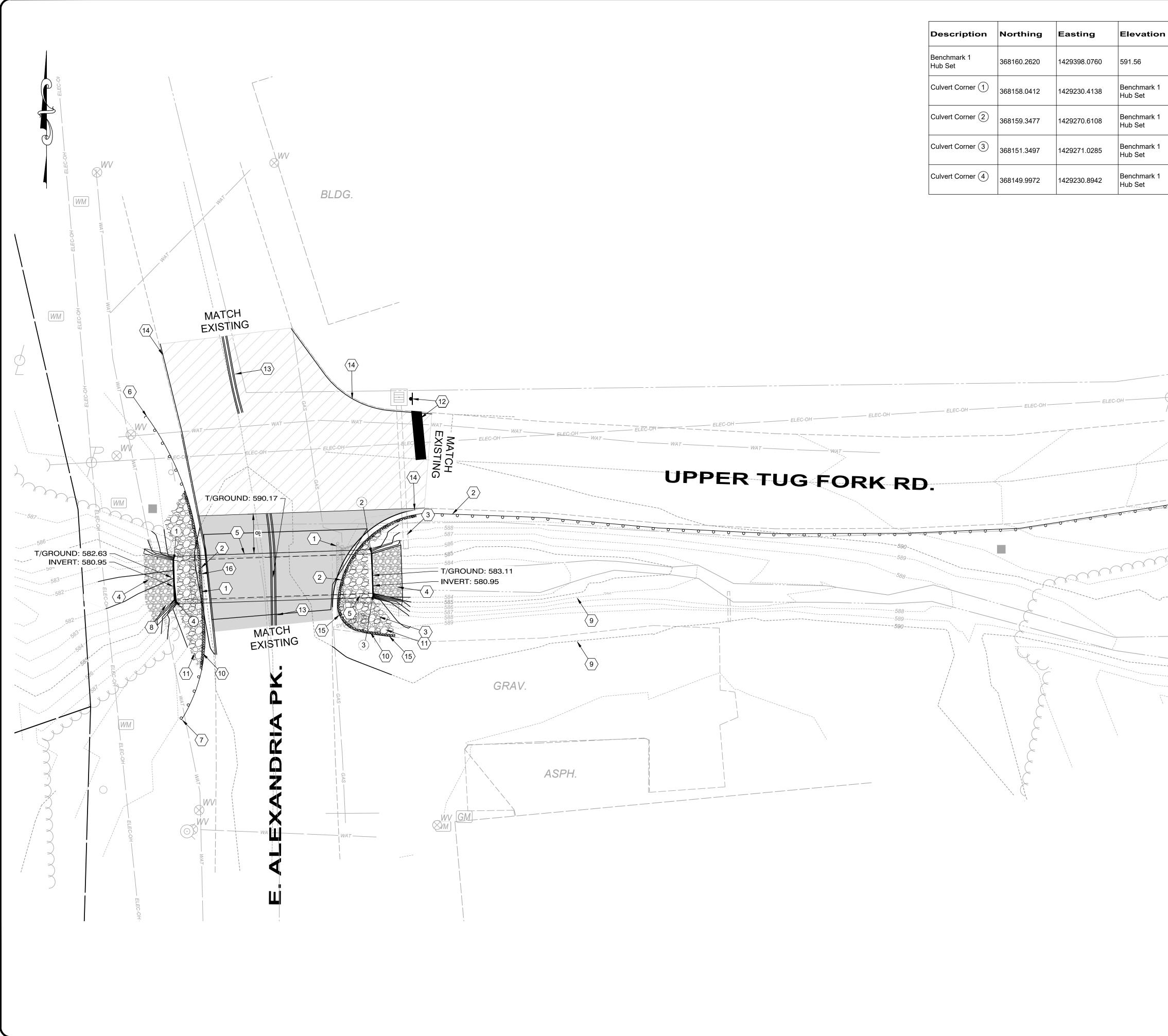
# EAST ALEXANDRIA PIKE **BRIDGE REPAIR** CAMPBELL COUNTY, KENTUCKY



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Description	Northing	Easting	Elevation
Benchmark 1 Hub Set	368160.2620	1429398.0760	591.56
Culvert Corner 1	368158.0412	1429230.4138	Benchmark 1 Hub Set
Culvert Corner 2	368159.3477	1429270.6108	Benchmark 1 Hub Set
Culvert Corner ③	368151.3497	1429271.0285	Benchmark 1 Hub Set
Culvert Corner (4)	368149.9972	1429230.8942	Benchmark 1 Hub Set



### **KEYNOTES**

- $\langle 1 \rangle$  REMOVE GUARDRAIL
- $\langle 2 \rangle$  PROPOSED GUARDRAIL
- $\langle 3 \rangle$  EXISTING PIPE TO REMAIN
- $\langle 4 \rangle$  LIMITS OF CLASS III CHANNEL LINING
- 5 PROPOSED 8' x 7' x 8' BOX SECTION. SEE STRUCTURAL DRAWINGS
- 6 GUARDRAIL END TREATMENT, TYPE 4A, WITH OBJECT MARKER TYPE 3
- $\langle 7 \rangle$  GUARDRAIL END TREATMENT, TYPE 7
- 8PROPOSED SLOPE & WINGWALL.SEE DETAIL PAGE 4
- $\langle 9 \rangle$  DO NOT DISTURB
- (10) #8s FROM EDGE OF PAVEMENT TO 6" BEHIND GUARDRAIL. SEE DETAIL.
- (11) #2s FROM THE #8s TO THE CULVERT OPENING. SEE DETAIL
- (12) PROPOSED STOP SIGN AND STOP BAR
- (13) ITEM 713 PROPOSED DOUBLE YELLOW
- (14) ITEM 713 PROPOSED 4" WHITE EDGE LINE
- (15) GUARDRAIL END TREATMENT, TYPE 2A, WITH CABLE ASSEMBLY
- TYPE 3.
- (16) DOUBLE UP GUARDRAIL TO SKIP A POST OVER THE CULVERT

### LINETYPE LEGEND

СОММ-ОН	EXISTING OVER-HEAD UTILITIES, APPROX. LOCATION
	EXISTING PROPERTY LINE
0 0	EXISTING GUARDRAIL
<u> </u>	PROPOSED GUARDRAIL, WITH DELINEATORS
	PROPOSED TYPE 1 ASPHALT CURE

### HATCH LEGEND



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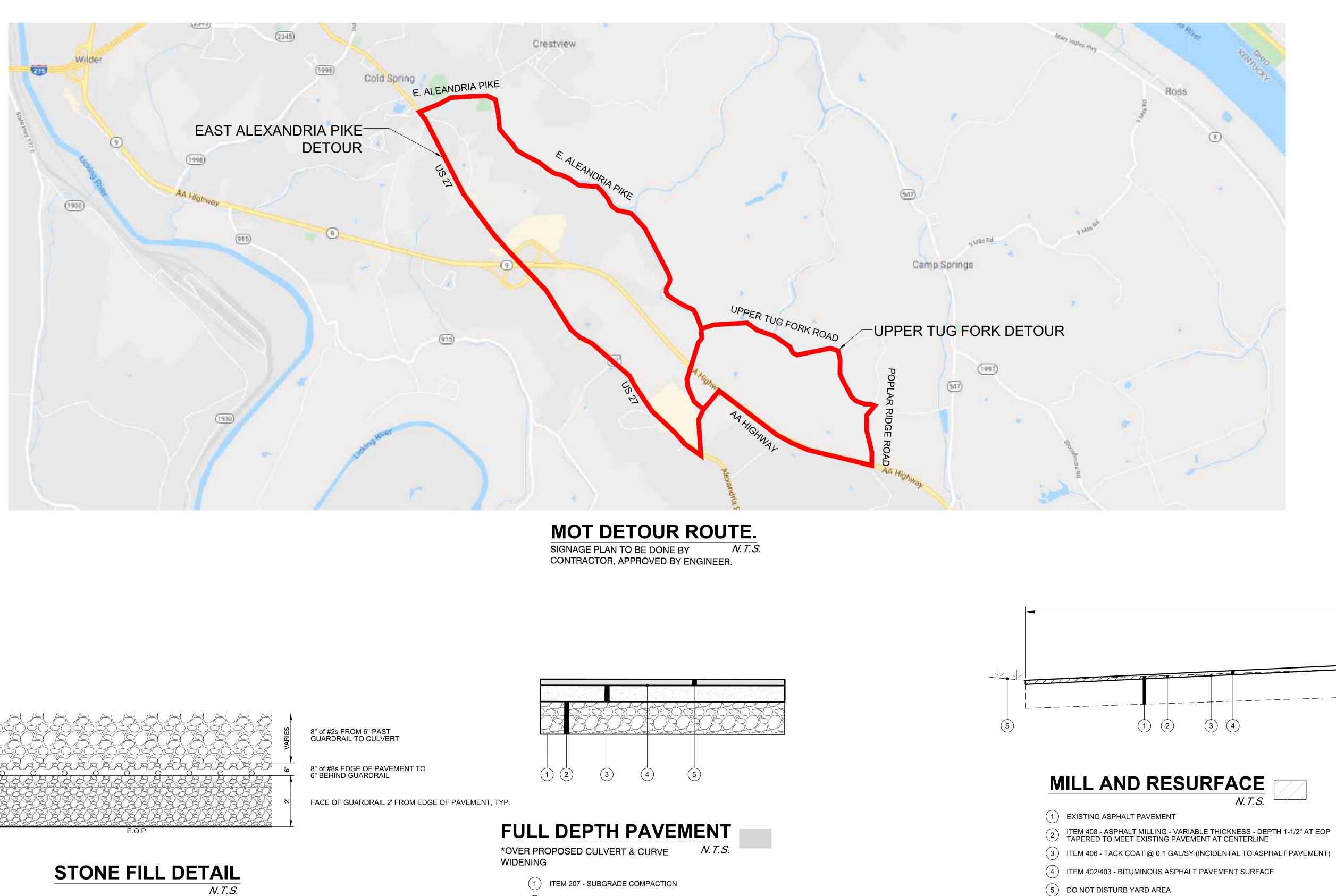
MILL AND RESURFACE. SEE DETAIL

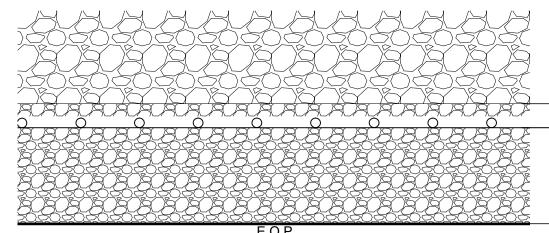
FULL DEPTH PAVEMENT. SEE DETAIL

### NOTES

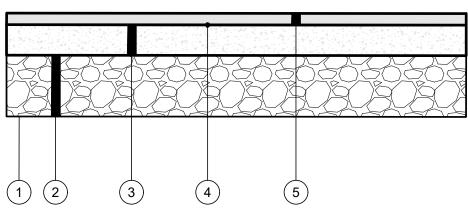
- A) CONTRACTOR TO COORDINATE PICKUP OF 8' PRECAST CONCRETE BOXES FROM MAXIM CRANEWORKS IN WILDER, KY. COORDINATE WITH COUNTY
- B) CONTRACTOR MUST BE KTYC APPROVED FOR CULVERT REPAIR AND/OR BRIDGES NOT MORE THAN 70'
- C) DETOUR TRAILBLAZING AND SIGNAGE BY CONTRACTOR TO CURRENT MUTCD STANDARDS AND APPROVED BY ENGINEER.
- D) 2 MOBILE MESSAGE BOARDS MUST BE POSTED WITHIN 500' OF SITE 2 WEEKS PRIOR TO CONSTRUCTION. EXACT LOCATION DETERMINED IN FIELD WITH COUNTY. MESSAGE BOARDS TO STATE ROAD CLOSED CULVERT CONSTRUCTION "DATE" ONE MONTH @ E. ALEXANDRIA PIKE. ONE BOARD ON EACH SIDE OF CULVERT.



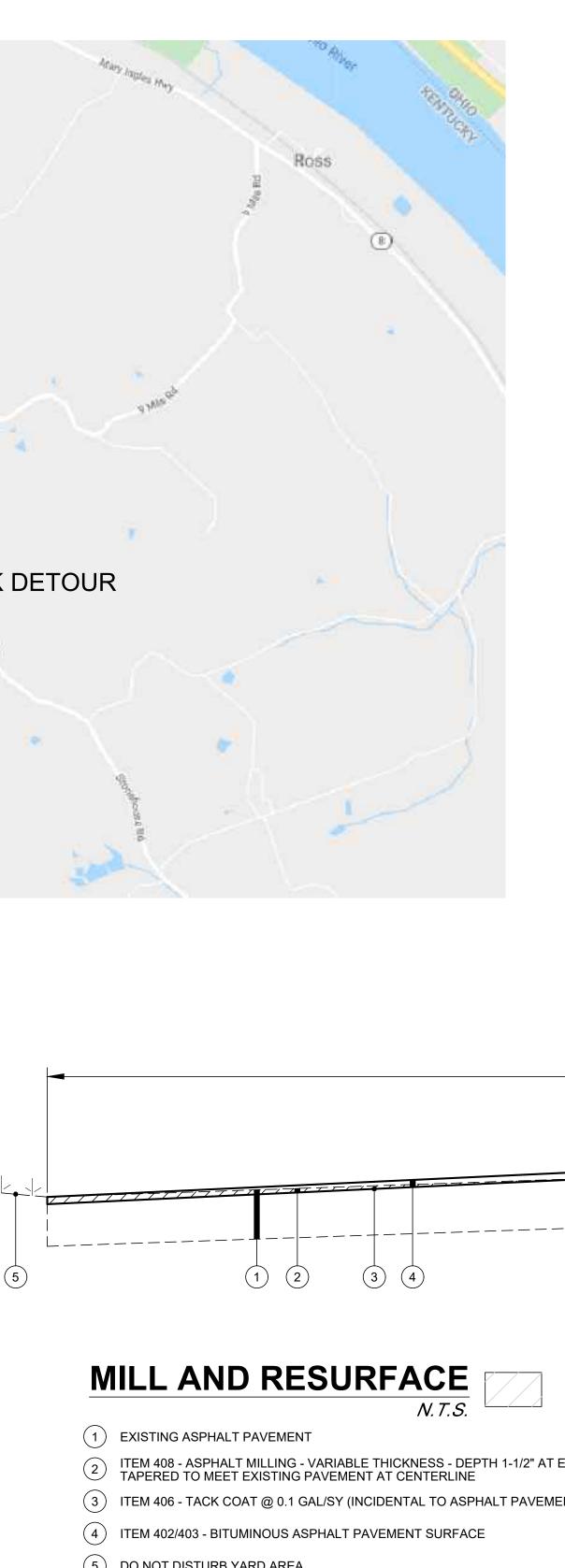




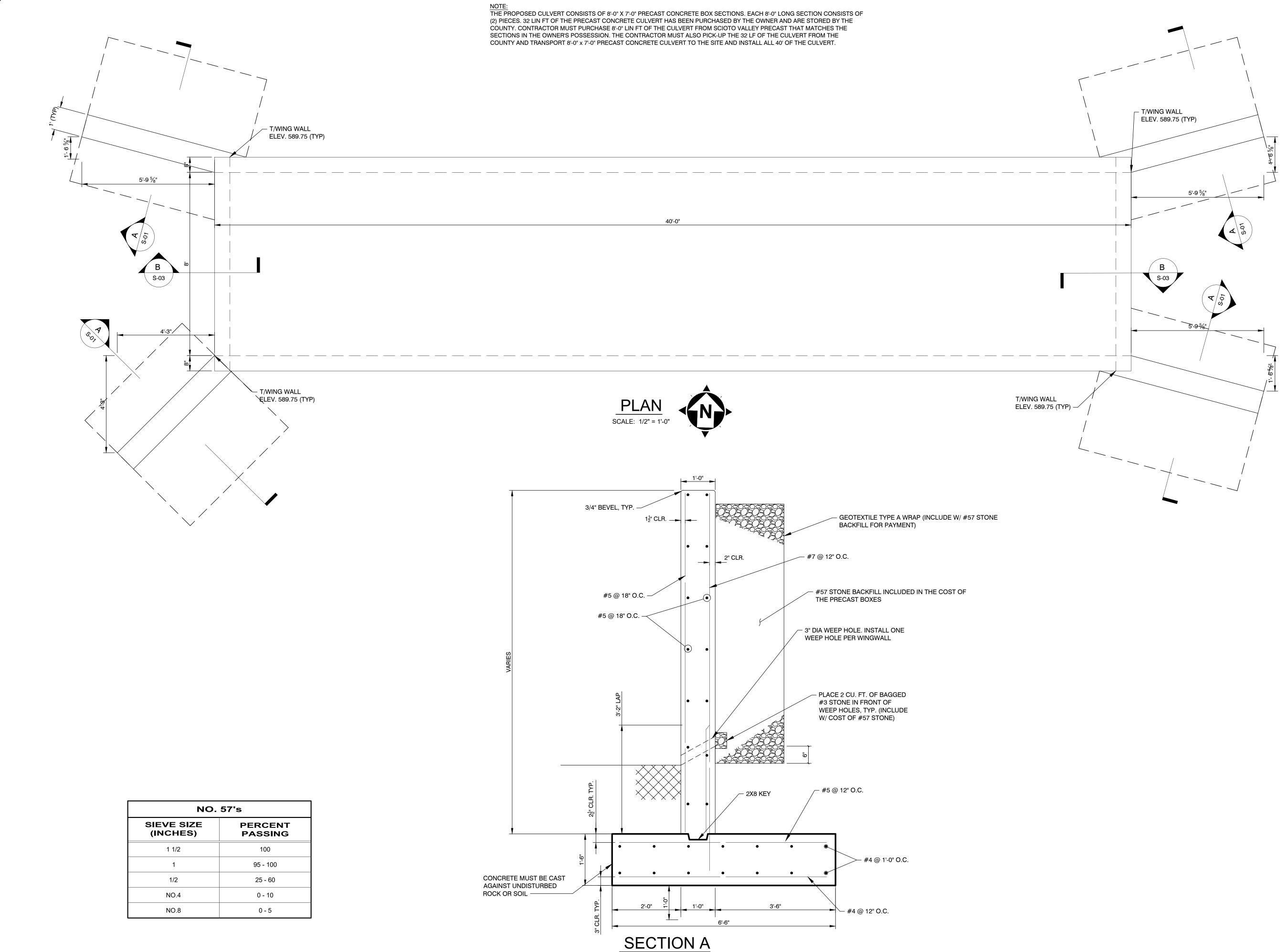
N. T. S.



- (2) ITEM 302 8" CRUSHED STONE BASE. COORDINATE WITH PROPERTY OWNER
- 3 ITEM 402/403 ASPHALT LEVELING COURSE, 4"
- 4 ITEM 406 TACK COAT @ 0.1 GAL/SY (INCIDENTAL)
- 5 ITEM 402/403 1.5" ASPHALT SURFACE COURSE

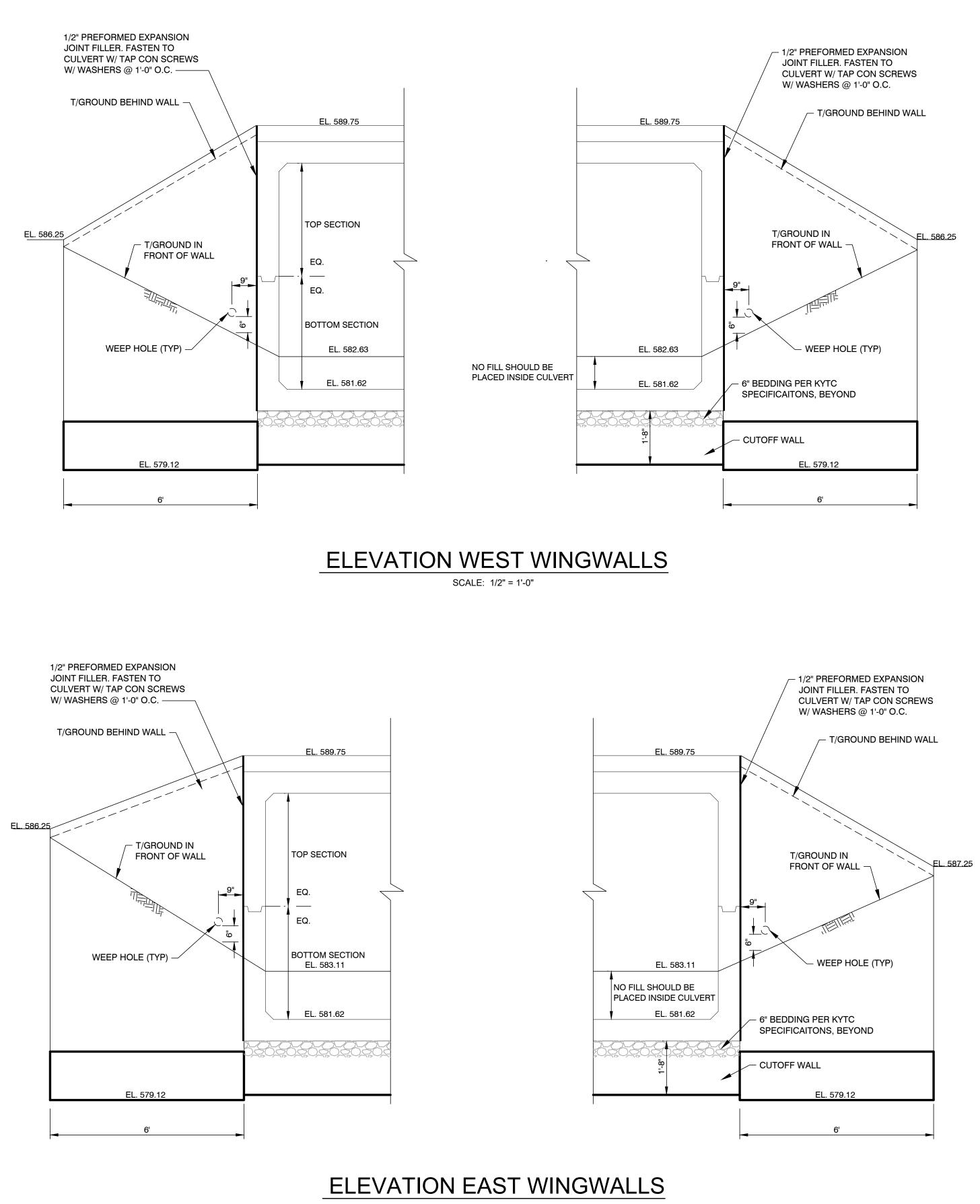


		your trusted advisor	<u>consultants</u> engineers architects	planners	
DATE					
REVISION					
ON					
REVIEW	10/29/2019	1"=10'	RDRE	JLAM	RDRE
ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
CAMPBELL COUNTY	<b>BRIDGE REPAIR</b>	CAMPBELL COUNTY, KY		EAST ALEXANDRIA PIKE	
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BRIDGE REPAIR	ISSUE DATE:	10/29/2019				(
CAMPBELL COUNTY, KY	SCALE:	AS SHOWN				your trusted advisor
	DESIGNED BY:	RDRE				<u>consultants</u> engineers architects
STRUCTURAL PLAN	DRAWN BY:	JLAM				planners
	CHECKED BY:	RDRE				



SCALE: 1/2" = 1'-0"

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### STRUCTURAL GENERAL NOTES

### GENERAL

IN GENERAL, UNLESS SPECIFICALLY SET FORTH HEREIN, THE WORK, MATERIALS AND METHODS OF MEASUREMENT AND PAYMENT SHALL CONFORM TO THE APPLICABLE DIVISIONS AND PARAGRAPHS (AS NOTED ON THE BID PROPOSAL OR IN THE PLANS) OF THE CURRENT:

### STATE OF KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

1. STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY STATE AND LOCAL CODES AND REGULATIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR RECONNECTING ANY UTILITY SERVICES THAT WERE TERMINATED AS A RESULT OF WORK WITHIN THE SCOPE OF THIS PROJECT.

ALL DIMENSIONS PERTAINING TO EXISTING CONSTRUCTION TO BE FIELD VERIFIED BEFORE STARING ANY WORK OR FABRICATION.

### REINFORCING STEEL:

ASTM A615, A616, OR A617 GRADE 60 MINIMUM YIELD STRENGTH 60,000 PSI

ALL REINFORCING STEEL MUST BE EPOXY COATED

### CONCRETE

ALL CONCRETE WORK SHALL CONFORM TO THE LATEST AMERICAN CONCRETE INSTITUTE AND REINFORCING STEEL INSTITUTE

RECOMMENDATIONS. CONCRETE SHALL BE PLACED IMMEDIATELY AFTER INSPECTOR'S APPROVAL OF BOTTOM STRATA AND POURED CONTINUOUSLY UNTIL COMPLETED.

WHERE CONCRETE IS PLACED DIRECTLY ON GROUND, REINFORCING STEEL TO HAVE A MINIMUM OF 3" CONCRETE COVER.

POURING TRUNK, CHUTE OR PUMP HOSE SHALL BE USED WHERE FREE FALL OF CONCRETE IS GREATER THAN 8'-0".

SLEEVES, OPENINGS, CONSTRUCTION AND COLD JOINTS NOT SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED BY THE ENGINEER.

AT CORNERS AND INTERSECTIONS OF FOOTINGS, SLABS AND WALLS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING WALL.

CONCRETE STRENGTH: CLASS A

### SUBMITTALS

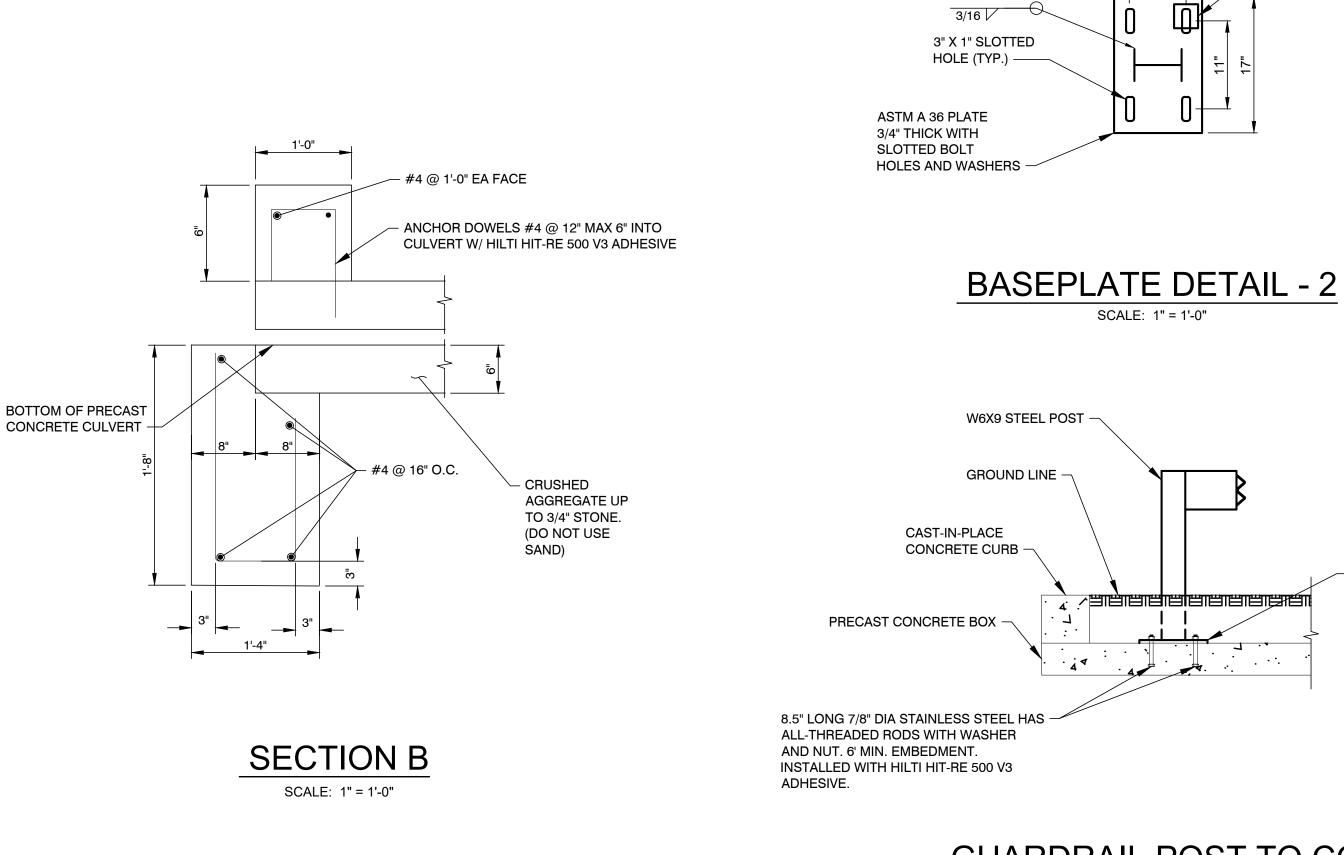
CONTRACTOR SHALL SUBMIT THREE COPIES OF THE FOLLOWING INFORMATION TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING MATERIALS FOR EACH ITEM:

- CONCRETE MIX DESIGN PRECAST CONCRETE BOX 2.
- BACKFILL 3.
- **RIP RAP** 4. GUARDRAIL 5.
- ASPHALT 6.
- BEDDING MATERIAL 7.

### TESTING

THE CONTRACTOR SHALL EMPLOY A FIRM TO PERFORM CONCRETE TESTING, AS REQUIRED PER THE KENTUCKY STANDARD SPECIFICATIONS.

SOIL BEARING CAPACITY MUST BE DETERMINED BY A GEOTECHNICAL ENGINEER. ASSUMED BEARING PRESSURE - 3000 PSF



## **BOX CONNECTION DETAIL**

11"

SCALE: 1/2" = 1'-0"

X 3" X 1/2" STEEL ATE WASHER		(	your trusted advisor	consultants <sup>→</sup> engineers	planners	
	DATE					
	REVISION					
STM A 36 PI ATE	REVIEW NO	10/29/2019	AS SHOWN	RBRB	JLARR	RBRB
STM A 36 PLATE /4" THICK WITH LOTTED BOLT OLES AND WASHERS	ISSUED FOR:	ISSUE DATE:	SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
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**GUARDRAIL POST TO CONCRETE**