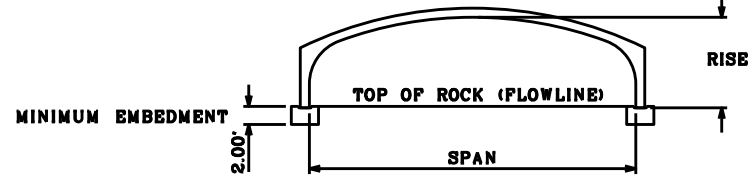


TARGET DESIGN VALUES:
 FLOW AREA - 304 SF
 SPAN - 36 FT
 RISE - 10 FT



DESIGN TYPICAL
 NTS

REFER TO "KYTC APPROVED LIST OF THREE-SIDED STRUCTURES"
 ACCEPTABLE THREE-SIDED STRUCTURES:

SYSTEM	SPAN(L)	RISE(L)	AREA(L)	SERIES
CONSPAN	36	10	304	LONG SPAN
HYSpan	36	10	346	
ECOSpan	36	10	304	
BEBO	36.79	11.17	306.4	AB
BEBO	40.70	10.17	306.7	E42
BEBO	36	4.5	304	T36
AQUA-ARCH	-	NONE	-	-

NOTES:
 STRUCTURE MAY NOT BE USED IF COVER IS LESS THAN 18 INCHES.
 STRUCTURE MAY NOT BE USED IF DESIGN GRADE IS EXCEEDED.
 INTEGRAL SLAB OR PAVED FLOWLINE ARE NOT REQUIRED.
 BEBO T36 REQUIRES A PEDESTAL WALL WITH MINIMUM HT. - 6'-6".
 REFER TO SITUATION SURVEY SHEET FOR HEADWATER CONTROL ELEVATIONS.

GENERAL NOTES

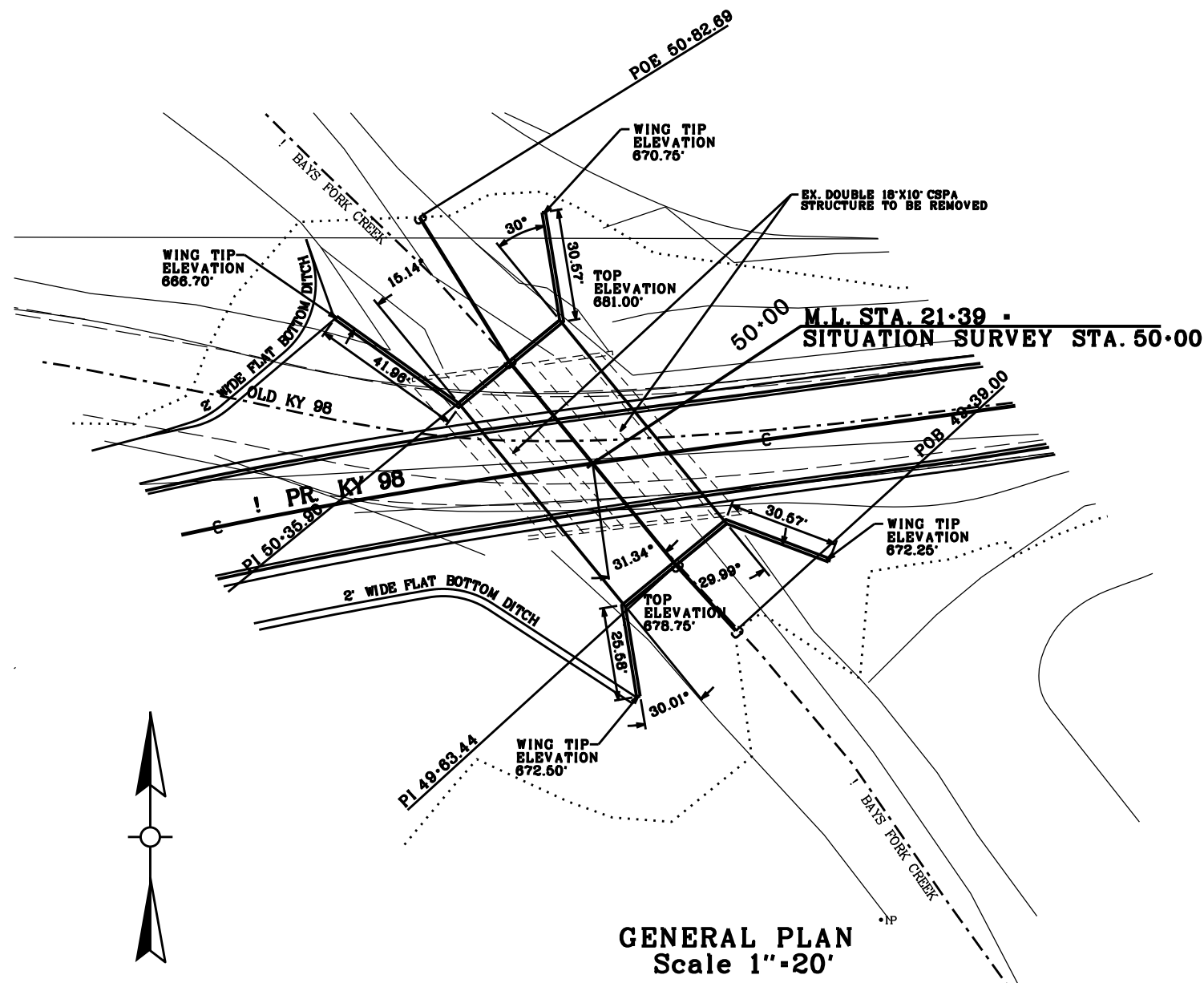
- DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND INTENDED TO CONVEY ENOUGH INFORMATION TO DEVELOP DETAIL STRUCTURAL DRAWINGS, AND BID DOCUMENTS. NO PAYMENT ADJUSTMENT WILL BE ALLOWED IF CONTRACTOR DESIRES TO MODIFY THIS LAYOUT.
- A SELECTED ALTERNATE MUST HAVE A SPAN, LENGTH, AND AREA EQUAL TO OR GREATER THAN THE MINIMUM VALUES LISTED. NO PAYMENT ADJUSTMENTS WILL BE ALLOWED FOR MODIFICATIONS TO THE LAYOUT DUE TO THE SELECTION OF AN ALTERNATE.
- ALL WORK TO CONSTRUCT A THREE-SIDED STRUCTURE IS PAID UNDER THE BID ITEMS "THREE-SIDED STRUCTURE" AND "FOUNDATION PREPARATION." "THREE-SIDED STRUCTURE" IS PAID BY LINEAR FOOT AND COVERS ALL WORK TO CONSTRUCT THE STRUCTURE THAT IS NOT COVERED UNDER "FOUNDATION PREPARATION". WORK INCLUDES LABOR AND MATERIALS TO CONSTRUCT FOUNDATIONS, STRUCTURE SECTIONS, WING WALLS, PARAPET WALLS (ALSO REFERRED TO AS HEADWALLS), JOINT SEALING, AND STRUCTURE DRAINAGE APPURTENANCES AS PER SECTION 603 OF THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. "STRUCTURE EXCAVATION SOLID ROCK" WILL BE MEASURED AND PAID FOR AS NEEDED. GUARDRAIL WILL BE MEASURED AND PAID SEPARATELY.
- ALL COMPONENTS MUST BE DESIGNED TO MEET STRUCTURAL REQUIREMENTS AS SET FORTH FOR EARTH, DEAD AND KYHL-93 LIVE LOAD IN AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, WITH INTERIMS. ALL DESIGNS SUBMITTED FOR CONSIDERATION MUST BE PERFORMED AND STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF KENTUCKY.
- FOUNDATION DESIGN MUST BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL RECOMMENDATIONS. (SEE SHEETS R8-R11).
- ALL MATERIALS USED MUST BE IN COMPLIANCE WITH THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE KENTUCKY TRANSPORTATION CABINET LIST OF APPROVED MATERIALS AND ALL APPLICABLE ASTM AND AASHTO STANDARDS.
- ALL PRECAST COMPONENTS SHALL BE MANUFACTURED BY A MATERIALS SUPPLIER OR FABRICATOR APPROVED BY KENTUCKY TRANSPORTATION CABINET AND BE IN STRICT COMPLIANCE WITH SECTION 606 OF THE KENTUCKY TRANSPORTATION CABINET, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH THE BUY AMERICAN REQUIREMENT IN SECTION 106.04 OF THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- WEEP HOLES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 611 OF THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- A CERTIFICATION LETTER IS REQUIRED FOR THREE-SIDED STRUCTURES THAT REQUIRE SPECIAL BACKFILL CONTRARY TO THE KENTUCKY TRANSPORTATION CABINET STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE LETTER SHALL BE SUBMITTED TO THE RESIDENT ENGINEER STATING THAT THE BACKFILL WAS CONSTRUCTED PROPERLY AND SHALL BE SIGNED BY THE CONTRACTOR AND THE MANUFACTURER OF THE THREE-SIDED STRUCTURE.
- THE MANUFACTURER OR SUPPLIER SHALL SUBMIT SIX COPIES OF DETAILED SHOP DRAWINGS TO THE DIVISION OF CONSTRUCTION FOR REVIEW. UPON REVIEW, THE DRAWINGS SHALL BE REVISED AND RESUBMITTED AS STRUCTURE PLANS. BACKFILL REQUIREMENTS AND ALL SPECIFICATIONS THAT ARE CONTRARY TO THE KYTC STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL BE SUBMITTED AS SHALL ONE SET OF STRUCTURAL DESIGN CALCULATIONS. ALLOW FOUR WEEKS TIME FOR REVIEW OF THIS MATERIAL. THE CONTRACTOR SHALL CONFIRM SCHEDULING AND DELIVERY DATES WITH THE SUPPLIER TO ENSURE THAT PROJECT COMPLETION DATES WILL BE MET.
- DRAWING NUMBER 26793 SHALL BE SHOWN ON THE SHOP DRAWINGS AND STRUCTURE PLANS IN ACCORDANCE WITH CURRENT POLICY AND SHALL BE DISPLAYED ON THE STRUCTURE IN ACCORDANCE WITH STANDARD DRAWING BGX-006, CURRENT EDITION.
- THE DESIGNER SHALL BE REQUIRED TO LOAD RATE THE THREE-SIDED STRUCTURE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MBE, AASHTO LRFD, CURRENT EDITION, AND THE BRIDGE MAINTENANCE PROCEDURES MANUAL. A LIST OF THE REQUIRED RATING TRUCKS MUST BE OBTAINED FROM THE DIVISION OF MAINTENANCE/BRIDGE MAINTENANCE BRANCH. RATINGS SHALL BE PERFORMED ON ALL REQUIRED TRUCKS AND MUST BE INCLUDED IN THE DESIGN CALCULATIONS. ALL COSTS TO PERFORM THESE RATINGS ARE INCIDENTAL TO THE THREE-SIDED STRUCTURE.

GUARDRAIL NOTES

- GUARDRAIL CONFIGURATION ACROSS THE STRUCTURE WILL BE IN ACCORDANCE WITH KYTC "RAILING SYSTEM TYPE II" AS SHOWN IN STANDARD DRAWING BDP 006.
- WHEN MOUNTING POSTS TO THE TOP OF A STRUCTURE, ANCHOR PLATES WILL BE USED AS SHOWN IN RBR-016.
- CALCULATIONS WILL BE PROVIDED SHOWING THAT THE GUARDRAIL POSTS WILL FAIL BEFORE ALL CONNECTIONS BETWEEN THE PRECAST COMPONENTS BELOW THE GUARDRAIL POSTS AND THE CULVERT SECTIONS.
- ALL GUARDRAIL TRANSITIONS FROM THE NORMAL ROADWAY GUARDRAIL TO THE STRUCTURE GUARDRAIL WILL BE IN ACCORDANCE WITH STANDARD DRAWING BHS 007.

GEOTECHNICAL NOTES

- IF THE BEDROCK BECOMES SOFTENED AT BEARING ELEVATION, THE SOFTENED MATERIAL SHALL BE UNDERCUT TO UNWEATHERED MATERIAL PRIOR TO PLACING THE CONCRETE. SEASONAL GROUNDWATER FLUCTUATIONS MAY CAUSE GROUNDWATER INFILTRATION INTO THE FOOTING EXCAVATIONS AND A DEWATERING METHOD MAY BE NECESSARY.
- SOLID ROCK EXCAVATION WILL BE REQUIRED TO REACH REQUIRED FOOTING ELEVATIONS.
- COFFERDAMS AND/OR DEWATERING METHODS MAY BE REQUIRED TO FACILITATE FOUNDATION CONSTRUCTION OF SPREAD FOOTINGS.
- TEMPORARY SHORING OR SHEETING WILL BE REQUIRED DURING CONSTRUCTION.



GENERAL PLAN
 Scale 1"=20'

FILE NAME: \USERS\RICHARDW.THOMAS\KYTC\DESKTOP\FACES\SITUATIONSHEET1.DGN
 USER: RichardW.Thomas
 DATE PLOTTED: February 23, 2012
 E-SHEET NAME:
 MicroStation v8.11.7.443

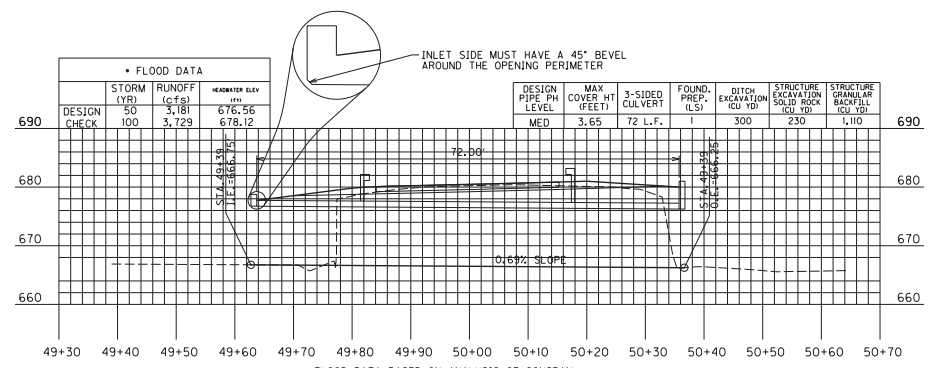
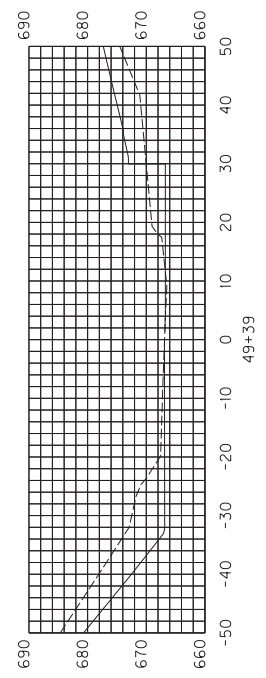
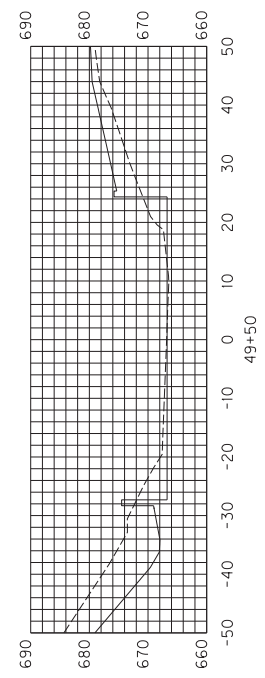
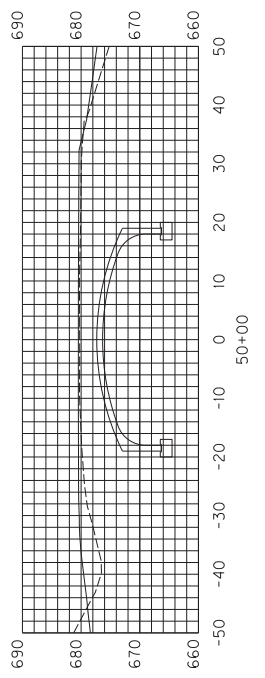
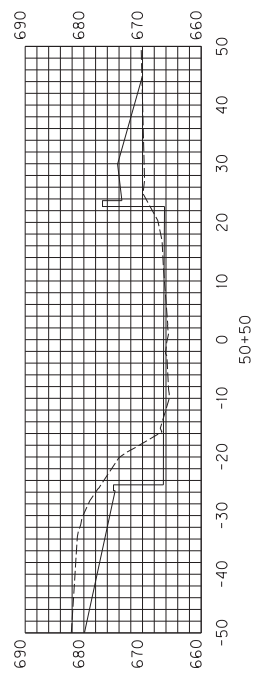
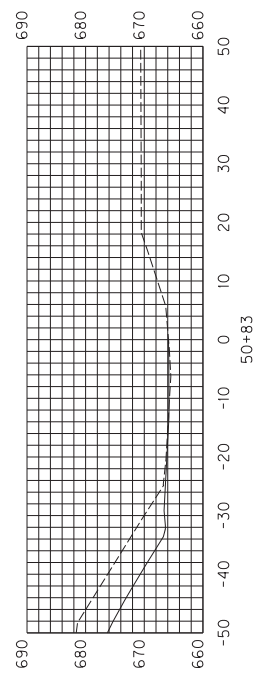
COUNTY OF	ITEM NO.	SHEET NO.
ALLEN	03-1071.00 03-8500.00	R16

FILE NAME: G:\P\WORK\BRANDON_HAMBLE\0303552\06160005.DWG

USER: Brandon.Hamble
DATE PLOTTED: February 24, 2012

E-SHEET NAME: _____

MicroStation v8.11.1.180



• FLOOD DATA

	STORM (YR)	RUNOFF (c.f.s)	HEADWATER ELEV (ft)
DESIGN	50	3,181	676.56
CHECK	100	3,729	678.12

DESIGN PIPE LEVEL	PH	MAX COVER HT (FEET)	3-SIDED CULVERT	FOUND. PREP. (L.S)	DITCH EXCAVATION (CU YD)	STRUCTURE EXCAVATION (CU YD)	STRUCTURE DRAINAGE BACKFILL (CU YD)
MED.		3.65	72 L.F.	1	300	230	1,110

• FLOOD DATA BASED ON ANALYSIS OF CONSPAN
LONG SPAN SERIES
SPAN = 36 FT
RISE = 10 FT

SCALE: 1" = 10' HORIZONTAL
1" = 10' VERTICAL

STA. 21+39
SITUATION SURVEY SHEET