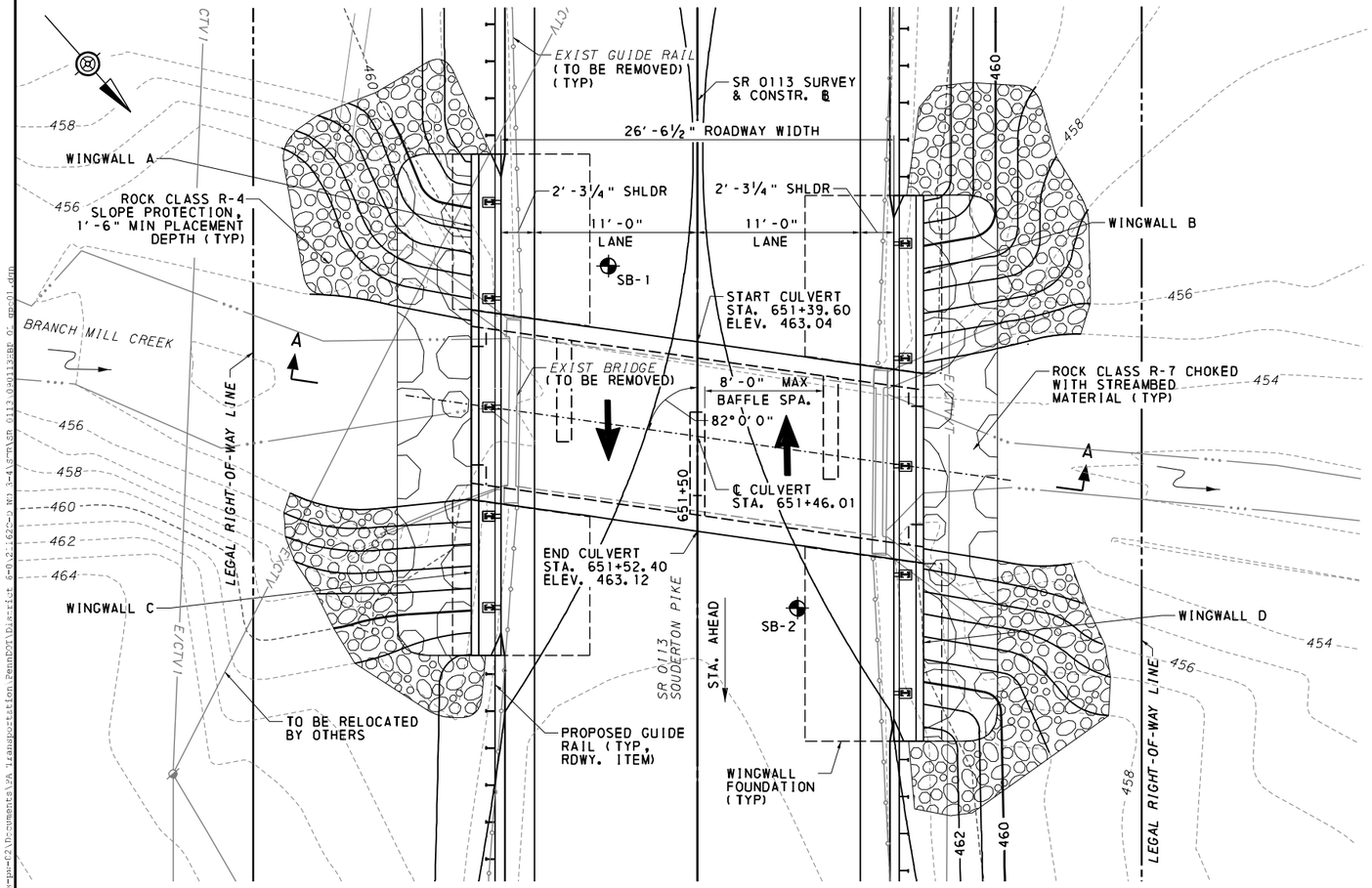
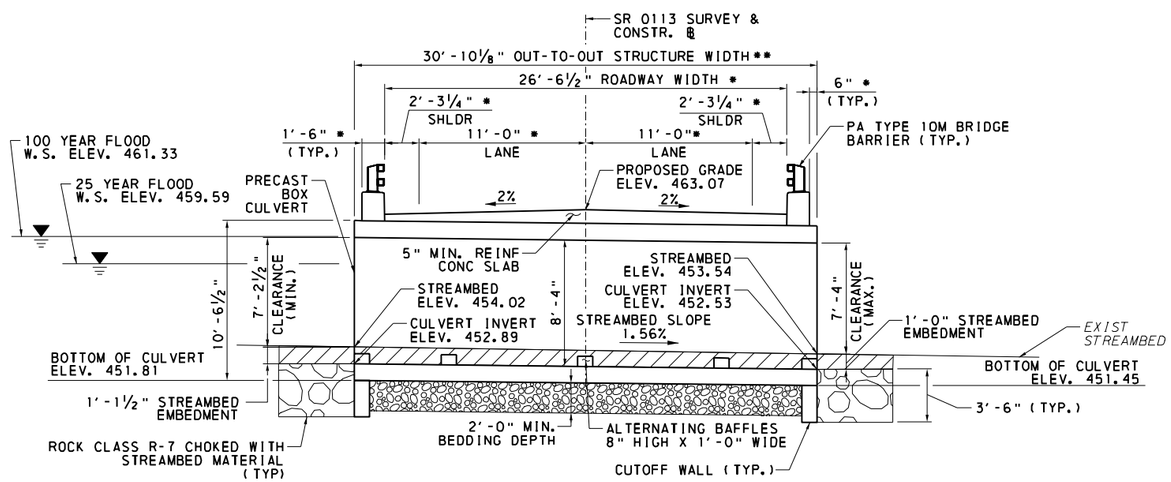


PLAN

0 5 10 FEET



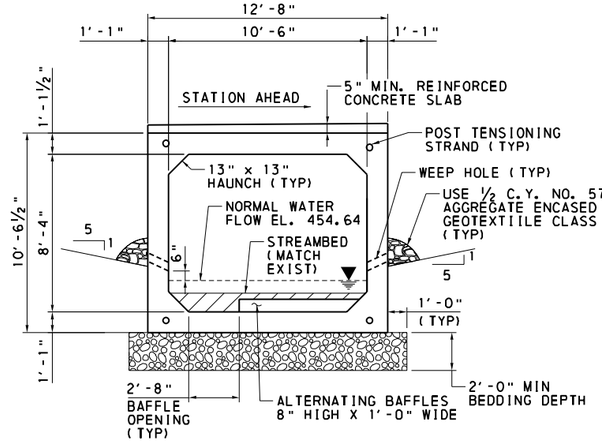
ELEVATION A-A

DATUM ELEV. 440

0 5 10 FEET

* DIMENSIONS SHOWN ARE MEASURED PERPENDICULAR TO ROADWAY ℄

** DIMENSION SHOWN MEASURED ALONG CULVERT ℄



TYPICAL PRECAST CONCRETE BOX SECTION

2 0 2 4 FEET

LEGEND:

- E/CTV — EXISTING OVERHEAD LINES
- PROPOSED STREAMBED
- NO. 8 COARSE AGGREGATE
- ROCK, CLASS R-4 SLOPE PROTECTION
- ROCK, CLASS R-7 CHOKED WITH STREAMBED MATERIAL
- AS-DRILLED SOIL BORING

VERTICAL GEOMETRY:

SR 0113
PVI STA 651+30.00
ELEV. 462.13'
VC = 140.00'
MO = 0.88'
HLSD = 169'

-2.40% +2.62%

HORIZONTAL GEOMETRY

N 41°37'50" E

HYDRAULIC DATA:

DRAINAGE AREA = 0.22 SQ. MI.

25 YEAR FLOOD : (DESIGN FLOOD)

		PROPOSED:	EXISTING:
MAGNITUDE	=	346 CFS	*346 CFS*
VELOCITY	=	7.56 FPS	*7.56 FPS*
W.S. ELEV.	=	459.59	*459.69*

100 YEAR RISK ASSESSMENT FLOOD :

		PROPOSED:	EXISTING:
MAGNITUDE	=	522 CFS	*522 CFS*
VELOCITY	=	8.40 FPS	*8.40 FPS*
W.S. ELEV.	=	461.33	*461.48*

FLOOD OF RECORD - N/A

NOTE: HY-8 CULVERT ANALYSIS DOES NOT PROVIDE HEADWATER VELOCITIES. TAILWATER VELOCITIES PROVIDED.

	EXISTING CONDITIONS	PROPOSED CONDITIONS
UPSTREAM LOW CHORD ELEV (FT)	*460.46*	461.22
DOWNSTREAM LOW CHORD ELEV (FT)	*460.49*	460.86
UPSTREAM HYDRAULIC OPENING (SF)	*64.80*	74.51
DOWNSTREAM HYDRAULIC OPENING (SF)	*67.75*	75.79

GENERAL NOTES:

1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR QUANTITIES AND CULVERT LOAD RATINGS, SEE SHEET 3.
3. FOR STAKE-OUT PLAN, SEE SHEET 4.

AS-DRILLED BORING TABLE

BORING NO.	SR 0113 CONSTR. ℄ STATION	OFFSET
SB-1	651+34.50	6.0' R
SB-2	651+57.60	6.8' L

INDEX OF DRAWINGS

SHEET NO.	TITLE
1	GENERAL PLAN & ELEVATION
2	GENERAL NOTES
3	QUANTITIES & RATINGS
4	STAKE-OUT PLAN
5	CULVERT TYPICAL SECTION
6	WINGWALL A & C
7	WINGWALL B & D
8	DECK AND BAFFLE LAYOUT
9	BARRIER DETAILS - INLET
10	BARRIER DETAILS - OUTLET
11	POST TENSION AND WATERPROOFING DETAILS
12	REINFORCEMENT BAR SCHEDULE
13	STRUCTURE BORING LOGS

Mark	Description	By	Chk'd.	Recm'd.	Date
	REVISIONS				

SR 0113 PREVIOUSLY KNOWN AS LR 270

BMS STR ID: 09011300300000 MPMS/ECMS PROJ: 102320 BRKEY: 6883

WSP USA, Inc.
1700 Market Street
Suite 1050
Philadelphia, PA 19103

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BUCKS COUNTY
SR 0113, SECTION HBP
SEG. 0030 OFFSET 0000
SR 0113 STA. 651+46.01
OVER BRANCH MILL CREEK
SINGLE CELL PRECAST CONC. BOX CULVERT
GENERAL PLAN AND ELEVATION

RECOMMENDED _____
DISTRICT BRIDGE ENGINEER

SHEET 1 OF 13

S-38296

DES. MM	CKD. JJ	DWN. MM	CKD. JJ

WSP - STRUCTURES CADD DATA
USA46164273
PW:\\wsp-usa-pw.bentley.com:wsp-usa-pw-02\Documents\A Transportation\Penn DOT\District 6-0\02-1622-D N2 3-4\STR\sn 0113 09011300300 BF 01. gpj
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