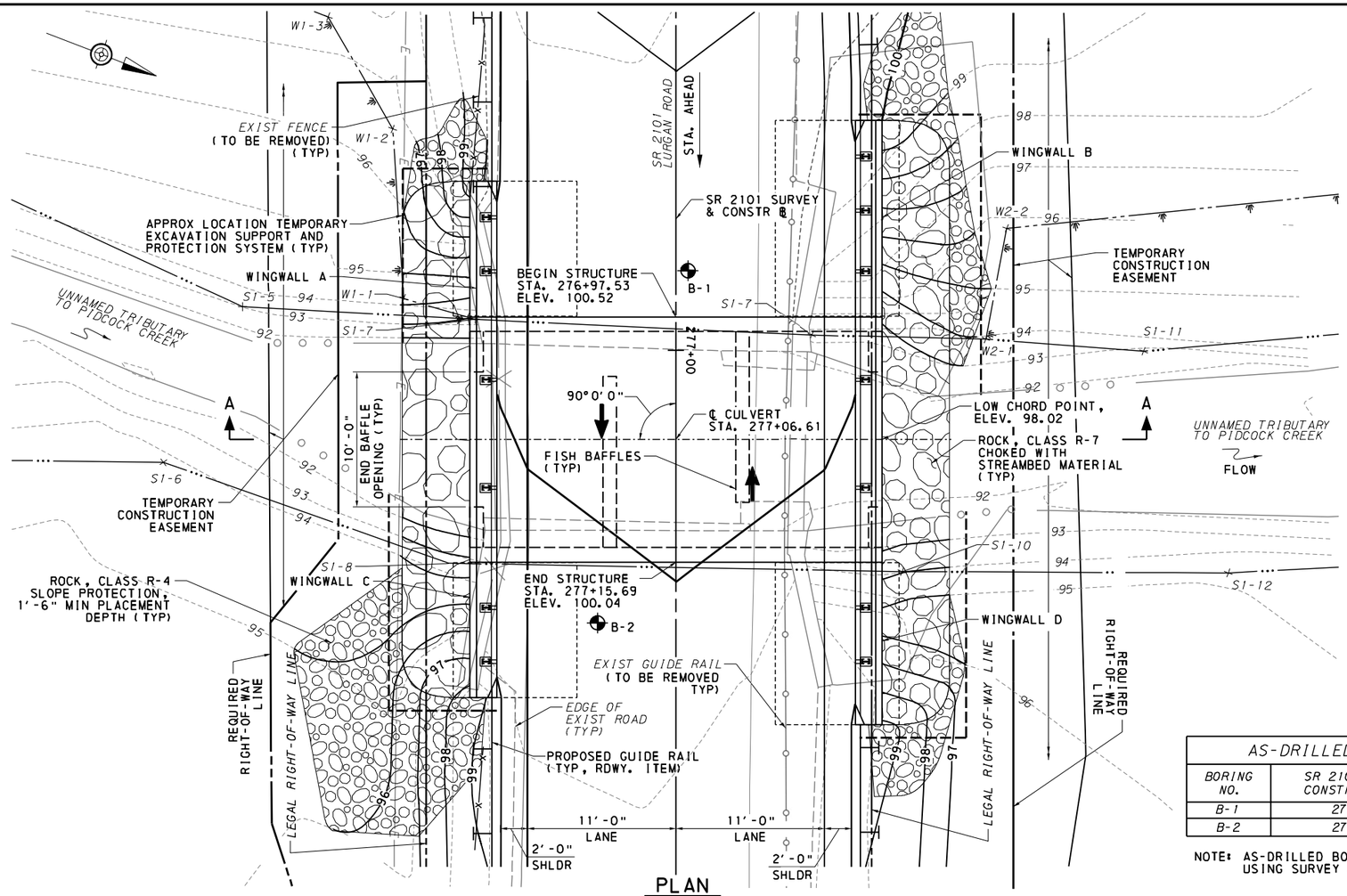
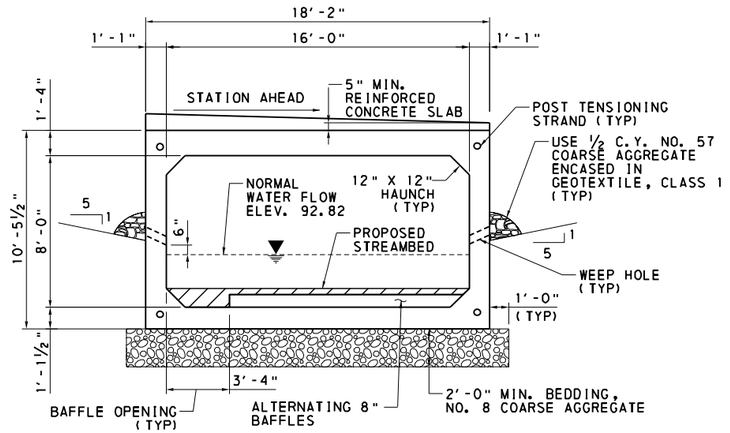


PLAN

0 5 10 FEET



TYPICAL PRECAST CONCRETE CULVERT SECTION

2 0 2 4 INCHES

VERTICAL GEOMETRY

PVI STA 277+75.00
ELEV= 98.47
VC= 50.00'
MO= 0.19'
HLSD= 222.60

-2.65% -0.34%

HORIZONTAL GEOMETRY

68°52'26"E

INDEX OF DRAWINGS

SHEET NO.	TITLE
1	GENERAL PLAN AND 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

AS-DRILLED BORING TABLE

BORING NO.	SR 2101 SURVEY & CONSTR @ STATION	OFFSET
B-1	276+94.10	0.9' LT
B-2	277+20.20	5.8' RT

NOTE: AS-DRILLED BORINGS STAKED OUT USING SURVEY & CONSTR @.

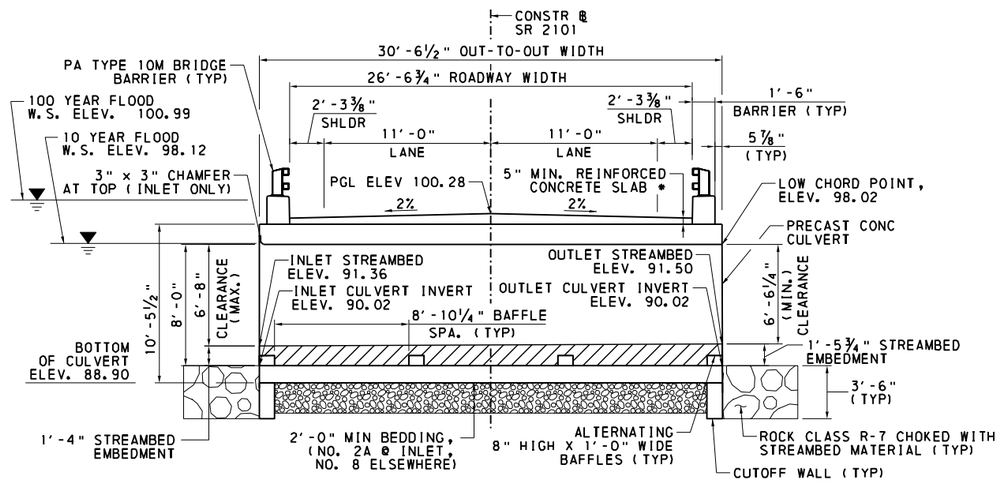
	EXISTING CONDITIONS	PROPOSED CONDITIONS
LOW CHORD ELEV (FT)	97.34	98.02
HYDRAULIC OPENING (SF)	86	105.72

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.

LEGEND:

- E — EXISTING ELECTRIC LINE
- PROPOSED STREAMBED
- NO. 8 COARSE AGGREGATE
- ROCK, CLASS R-4 SLOPE PROTECTION
- ROCK, CLASS R-7 CHOKED WITH STREAMBED MATERIAL
- TEMPORARY EXCAVATION SUPPORT
- AS-DRILLED SOIL BORING
- WETLAND LIMITS



* 5" MIN AND 10.75" MAX REINF CONC SLAB THICKNESS AT GUTTERLINE. 8.25" MIN AND 14" MAX REINF CONC SLAB THICKNESS AT PGL.

SECTION A-A

0 5 10 FEET

DATUM ELEV 80.00

HYDRAULIC DATA:

DRAINAGE AREA = 1.89 SQ. MI.

10 YEAR FLOOD : (DESIGN FLOOD)

	PROPOSED:	EXISTING:
MAGNITUDE =	704 CFS	704 CFS
VELOCITY =	5.73 FPS	5.36 FPS
W.S. ELEV. =	98.12	98.50

100 YEAR RISK ASSESSMENT FLOOD :

	PROPOSED:	EXISTING:
MAGNITUDE =	1649 CFS	1649 CFS
VELOCITY =	5.09 FPS	5.03 FPS
W.S. ELEV. =	100.99	101.03

FLOOD OF RECORD - N/A

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

SR 2101 PREVIOUSLY KNOWN AS LR 09056

BMS STR ID: 09-2101-0090-0000 MPMS/ECMS PROJ: 102320 BRKEY: 69617

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BUCKS COUNTY
SR 2101, SECTION HBP
SEG. 0090 OFFSET 0000
S.R. 2101 STA. 277+06.61
OVER UNNAMED TRIBUTARY TO PIDCOCK CREEK
SINGLE CELL PRECAST CONC. BOX CULVERT

GENERAL PLAN AND ELEVATION

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

RECOMMENDED _____

DISTRICT BRIDGE ENGINEER

SHEET 1 OF 13
+ SUPPLEMENTAL DRAWINGS

S-38101

DES. MM | CKD. LML | DWN. MM | CKD. LML

WSP - STRUCTURES CADD DATA
USA46162673
PW_pennDOT full - Ph1a_mod.tbl
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