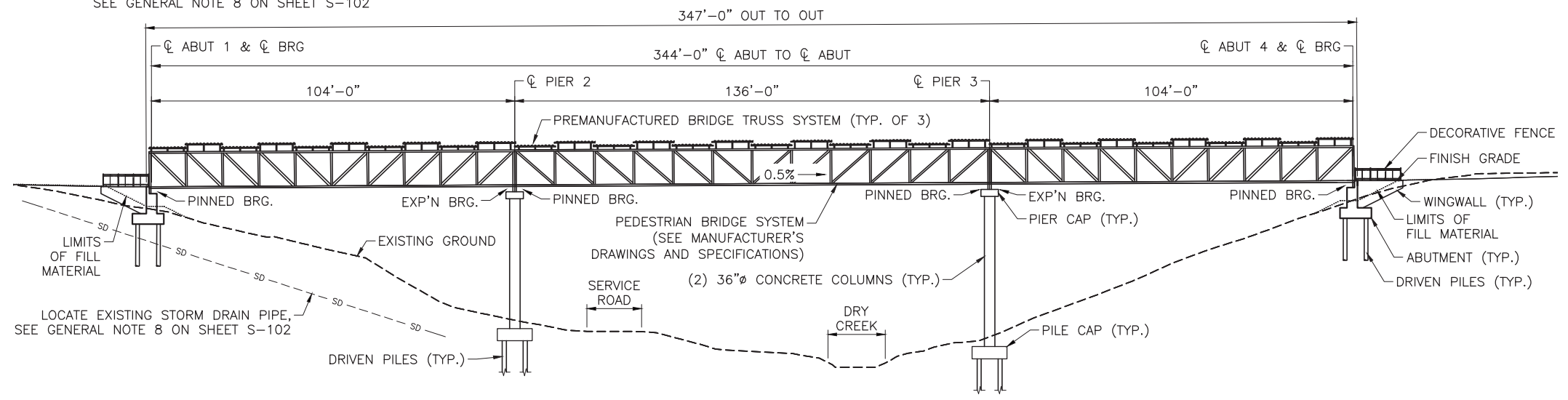
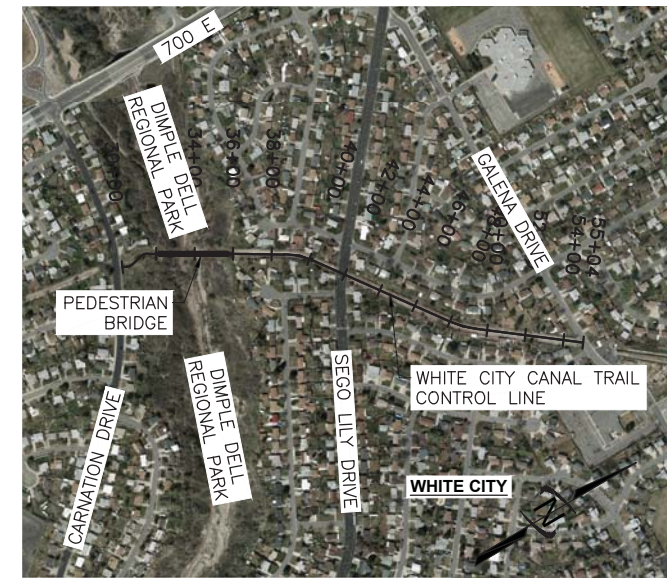
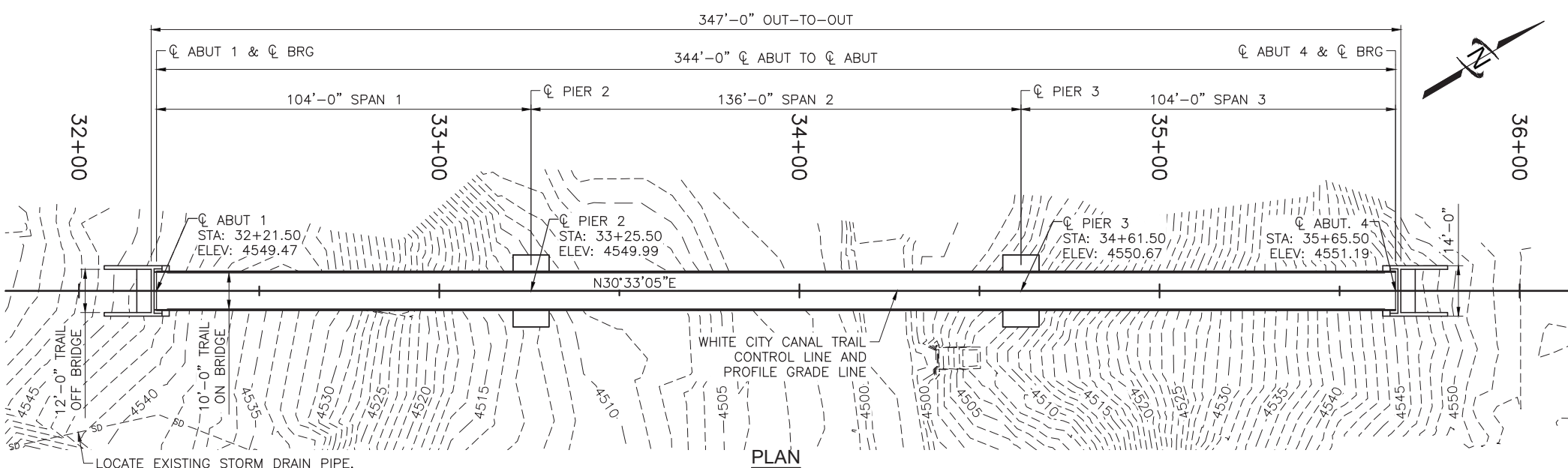


NO.	REVISION	DESCRIPTION	BY	DATE

**WHITE CITY CANAL TRAIL**  
**SALT LAKE COUNTY UTAH**  
**PEDESTRIAN BRIDGE**  
**SITUATION AND LAYOUT 1 OF 2**



**GENERAL NOTES**

SEE "SITUATION AND LAYOUT 2 OF 2" FOR GENERAL NOTES.

**DESIGN DATA**

PEDESTRIAN LIVE LOAD IN ACCORDANCE WITH AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES.  
 SEISMIC DESIGN IN ACCORDANCE WITH AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN.

CAST-IN-PLACE CONCRETE:  $f'_c = 4.0$  KSI  $n = 8$  CLASS AA(AE)  $f_y(\text{REINF}) = 60$  KSI (UNLESS OTHERWISE NOTED)

STRUCTURAL STEEL: AASHTO M 270  
 $F_y = 50$  KSI (GRADE 50W) UNLESS NOTED OTHERWISE  
 $F_y = 36$  KSI (GRADE 36) DECORATIVE FENCE

UNIFORM TEMPERATURE LOAD: MAIN SPAN (136') WILL ACCOUNT FOR LONGITUDINAL FORCES DUE TO UNIFORM TEMPERATURE CHANGE BETWEEN TWO PINNED BEARINGS AS SHOWN IN TABLE BELOW. TEMPERATURE REFERS TO TEMPERATURE OF THE STEEL, NOT AMBIENT TEMPERATURE. LINEAR INTERPOLATION IS ALLOWED.

TEMPERATURE AT CONSTRUCTION (°F)	FORCES APPLIED TO TRUSS (KIPS)	
	TENSION	COMPRESSION
40	12.86	14.70
60	16.53	11.02
80	20.21	7.35

SEISMIC CRITERIA: 7% PROBABILITY OF EXCEEDANCE IN 75-YR DESIGN EVENT  
 $P_G = 0.402g$   $S_S = 0.934g$   $S_1 = 0.350g$   
 $A_s = 0.441g$   $S_{DS} = 1.052G$   $S_{D1} = 0.595g$   
 SITE CLASS D, SDC D

Sheet List Table	
Sheet Number	Sheet Title
S-101	SITUATION AND LAYOUT 1 OF 2
S-102	SITUATION AND LAYOUT 2 OF 2
S-103	BORING LOGS 1 OF 3
S-104	BORING LOGS 2 OF 3
S-105	BORING LOGS 3 OF 3
S-106	FOUNDATION PLAN
S-107	DRILLED PILE DETAILS
S-108	ABUTMENT AND WINGWALL LAYOUT
S-109	ABUTMENT DETAILS
S-110	WINGWALL DETAILS
S-111	PIER LAYOUT
S-112	PIER PILE CAP DETAILS
S-113	PIER CAP AND COLUMN DETAILS
S-114	BEARING LAYOUT AND DETAILS
S-115	DECORATIVE FENCE DETAILS 1 OF 2
S-116	DECORATIVE FENCE DETAILS 2 OF 2

QUANTITIES				
ITEM	EST QTY	UNIT	AS CONST	
MOBILIZATION	1	LUMP		
DRIVEN PILES 12.75 INCH X 0.500 INCH	301	LF		
DRIVEN PILES HP 14 X 117	705	LF		
42 INCH DECORATIVE FENCE	58	LF		
REINFORCING STEEL - COATED (PLAN QUANTITY)	29,600	LB		
STRUCTURAL CONCRETE (EST. LUMP QTY: 170 CU YD)	1	LUMP		
PREFABRICATED STEEL TRUSS BRIDGE	1	LUMP		
GALVANIZED METAL ROOF (ADDITIVE ALTERNATE 2)	1	LUMP		