

E100



MATERIAL STRENGTHS:

FOUTINGS	
MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS	fc =
MAXIMUM WATER-CEMENTITIOUS RATIO	0.59
MAXIMUM AGGREGATE SIZE	1 1/2
SLUMP LIMIT	5" ±
AIR CONTENT	NO
FOUNDATION FROST WALLS	
MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS	f'c =
MAXIMUM WATER-CEMENTITIOUS RATIO	0.48
MAXIMUM AGGREGATE SIZE	3/4"
SLUMP LIMIT	4" ±
AIR CONTENT	YES
<u>EINFORCING STEEL:</u> ALL-ASTM A 615, GRADE 60, DEFORMED	Fy = Fy =
TRUCTURAL STEEL:	
CHANNELS, ANGLES, & S SHAPES, ASTM A 36	Fy =
TUBE SHAPES, ASTM A 500 GRADE B	Fy =
VELDED CONNECTIONS:	
WELDING ELECTRODES	F70)

WEST ABUTMENT PLAN SCALE: 1/4"=1'-0"



DESIGN DATA:

APPLICABLE CODES/STANDARDS:	
-INTERNATIONAL BUILDING CODE-2009 WITH SEPTEMBER 1, 2011 WISCONSIN AMENDED I-C -ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE/SEI 2	ODE INSERTS 2005
STRUCTURAL DESIGN STANDARDS (DESIGN SHALL CONFORM TO THE CURRENT EDITION U	INDER THE APPLICABLE CODE
-ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTAR -ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS -WS D1.1/D1.1M STRUCTURAL WELDING CODE-STEEL	Y
BUILDING CLASSIFICATION CATEGORY:	II
BUILDING DESIGN LOADS/CRITERIA:	
DESIGN DEAD LOADS: SELF WEIGHT OF FRAME AND $\frac{1}{8}$ " PERFORATED STEEL PLATES	
DESIGN LIVE LOADS: SIDEWALKS	100 PSF
HANDRAIL ASSEMBLIES & GUARDS: 200LB LOAD OR 50 PLF LOAD APPLIED IN ANY DIRECTION AT TOP OF HANDRAIL ASSEMBLY TRANSFER THIS LOAD THROUGH SUPPORTS TO THE STRUCTURE.	OR_GUARD & TO
WIND DESIGN DATA: WIND IMPORTANCE FACTOR (Iw)	1.0

- EXISTING BATTER PILES

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ISSUANCE AND DATE:

COORDINATION

08-05-2016

Revisions:			
NO.	DATE	DESCRIPTION	

PROJECT INFORMATION:

HIGHLAND AVE UNDERPASS

REGENT NEIGHBORHOOD, MADISON, WI

SHEET INFORMATION:

STRUCTURAL PLANS AND DETAILS

PE PROJECT NO: 16149 SCALE: AS NOTED S100 DRAWN BY: PE

CHECKED BY: PE

Shift Highland Avenue Underpass, Unbuilt Work Artist Budget: \$82,000

Shift is composed of two 70' long backlit weathered steel panel walls spanning both sides of the Highland Avenue underpass. The project has been an ongoing collaborative neighborhood initiative between the Regent Neighborhood, UW Madison Environmental Design Center, and 1000 Friends of Wisconsin. *Shift* will serve as a visual transition between the UW campus and the Regent Neighborhood for the thousands of employees, students, and residents who use the underpass each day. The project will increase walkability, create a safe and inviting lighting system for the underpass and improve the daily experience of commuters.



Scale Model Photos



East Wall Elevation