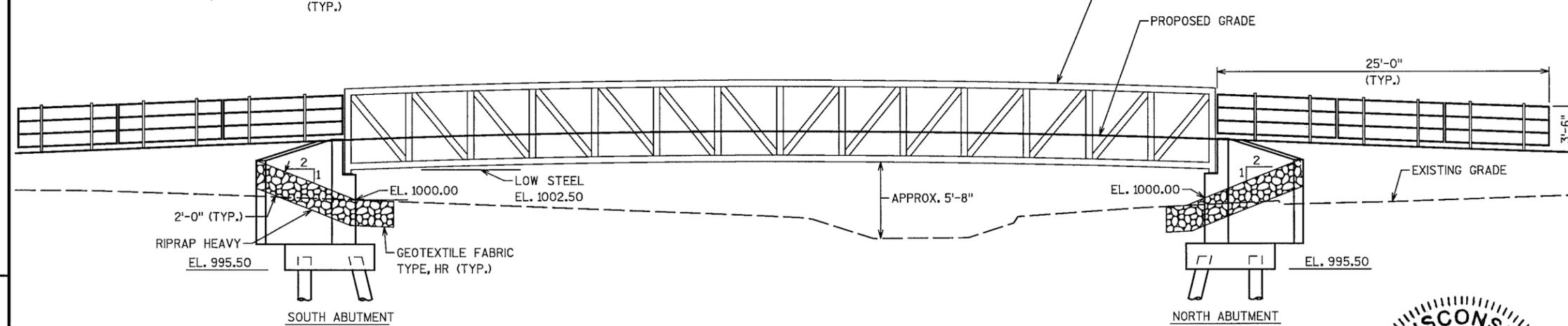


PLAN



ELEVATION

- NOTES:**
- METAL RAILING POST SPACING. RAILING DIMENSIONS TYPICAL EACH SIDE.
 - ▲ BLOCK OUT APPROACH SLAB AS NEEDED TO ACCOMMODATE RAIL POST FOOTING.



CONSULTANT CONTACT:
KEVIN SWEHLA
(608) 829-0010

DESIGN DATA

LIVE LOAD:
GREATER OF 90 PSF OR H-10 VEHICLE

ULTIMATE DESIGN STRESSES:
CONCRETE MASONRY $f'_c = 3,500$ P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT GRADE 60 $f_y = 60,000$ P.S.I.
STRUCTURAL STEEL $f_y = 50,000$ P.S.I. (WEATHERING STEEL)

ABUTMENT DESIGN IS BASED ON THE FOLLOWING UNFACTORED REACTION LOADS PER BASE PLATE (4 PER BRIDGE):

ASSUMED TRUSS BEARING LOADS		
TYPE	LOADING	NOTES
DEAD LOAD (DC)	25.5 KIPS PER BEARING DOWNWARD	INCLUDES TRUSS, DECK AND ALL OTHER TRUSS DEAD LOADS COMPLETE IN PLACE.
PEDESTRIAN LOAD (PL)	22 KIPS PER BEARING DOWNWARD	90 PSF PED. LOADING. H10 VEHICLE DETERMINED NOT TO CONTROL ABUTMENT DESIGN. CONTRACTOR SHALL DETERMINE THE NECESSITY OF USING VEHICLE LOADING FOR THE TRUSS DESIGN. NO LIVE LOAD REDUCTION ALLOWED.

CONTRACTOR TO VERIFY SUPPLIED BRIDGE LOADS.

HYDRAULIC DATA
NONE AVAILABLE

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 10 3/4" DIA. CAST-IN-PLACE CONCRETE PILING (WITH 0.365" WALL THICKNESS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 48 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 15 FEET LONG AT BOTH ABUTMENTS.

* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY THE RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

INDEX OF SHEETS

- S1 GENERAL PLAN
- S2 PROFILE, NOTES AND QUANTITIES
- S3 ABUTMENT DETAILS (1 OF 2)
- S4 ABUTMENT DETAILS (2 OF 2)
- S5 RAILING AND APPROACH SLAB DETAILS

NO.	DATE	REVISION	BY
PLANS PREPARED BY: SRE ENGINEERS PLANNERS DESIGNERS Consulting Group, Inc. 901 DEMING WAY, SUITE 302 MADISON, WI 53717			
COUNTY DANE		TOWN/CITY/VILLAGE MADISON	
DESIGN SPEC. AASHTO LRFD DESIGN SPEC. 5th EDITION DESIGNED BY ESH DESIGN CK'D. KLS DRAWN BY ARH PLANS CK'D. KLS			
GENERAL PLAN			