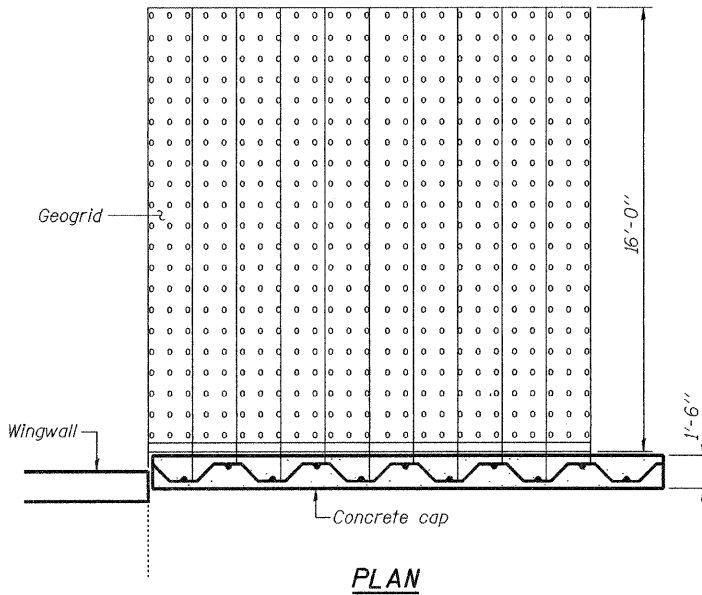
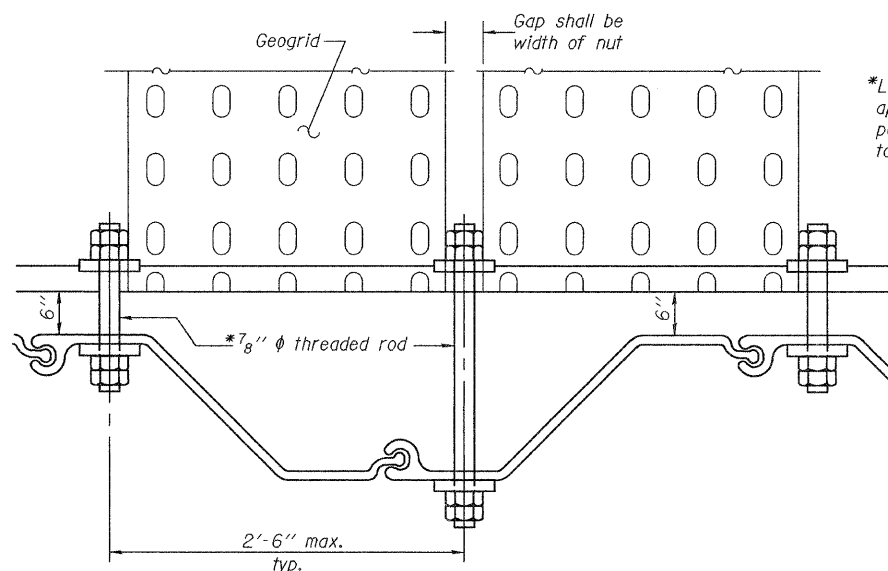


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DEPARTMENT OF TRANSPORTATION

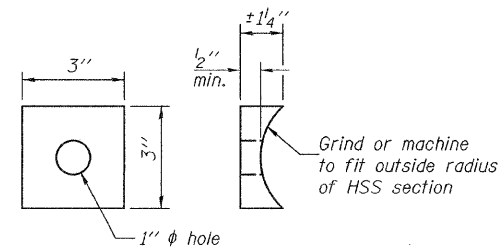


PLAN

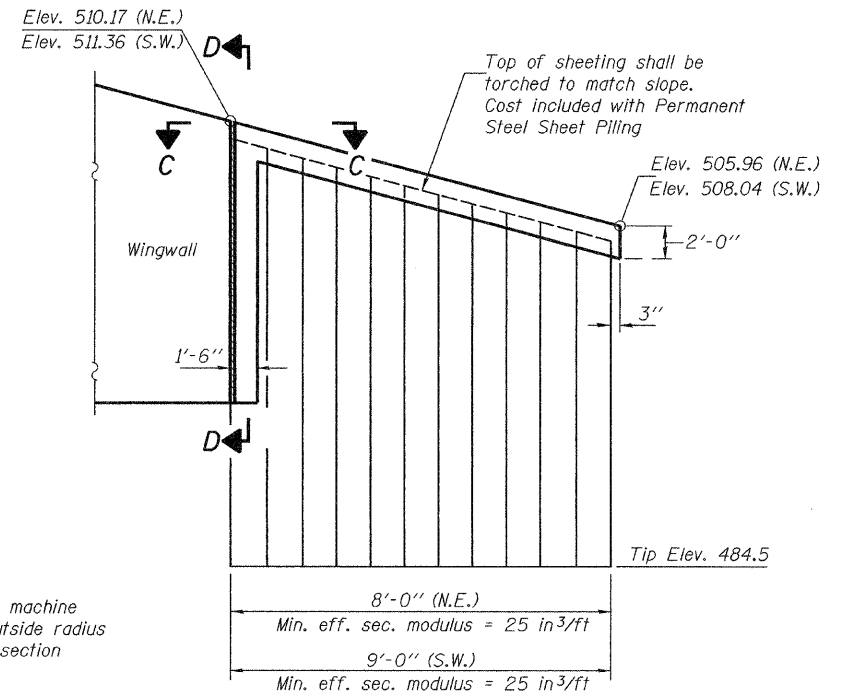


SECTION A-A

*Length to be determined to maintain approximate distance $\pm 6''$ between permanent sheet piling and HSS 4,000 to allow clearance for geogrid installation.

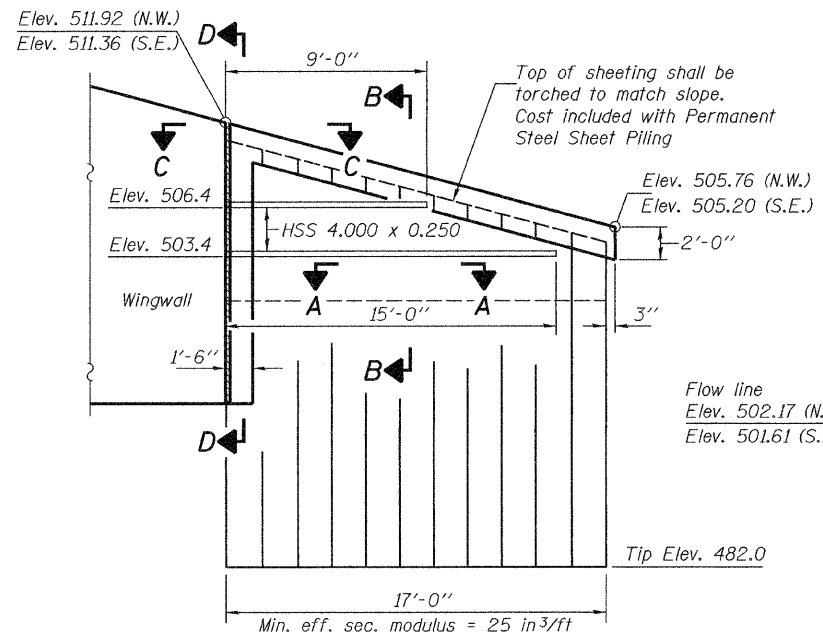


CONTOURED WASHERS



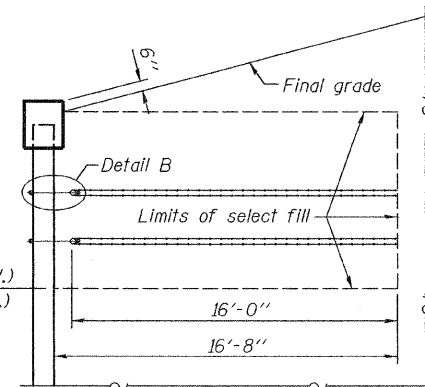
ELEVATION

N.E. & S.W. PERMANENT SHEET PILING

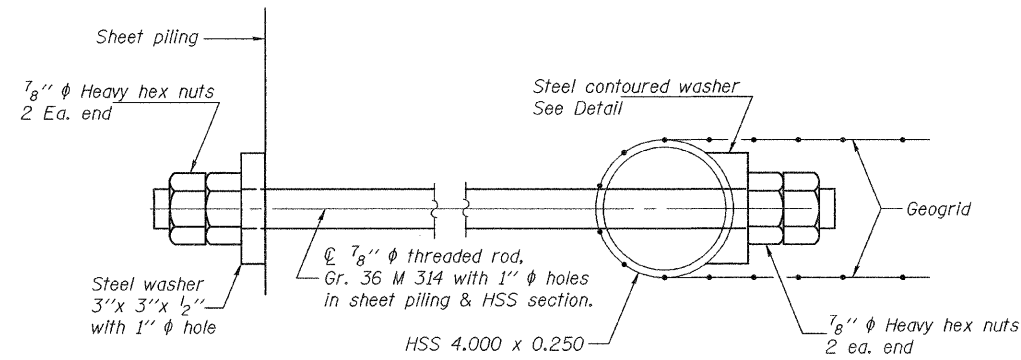


ELEVATION

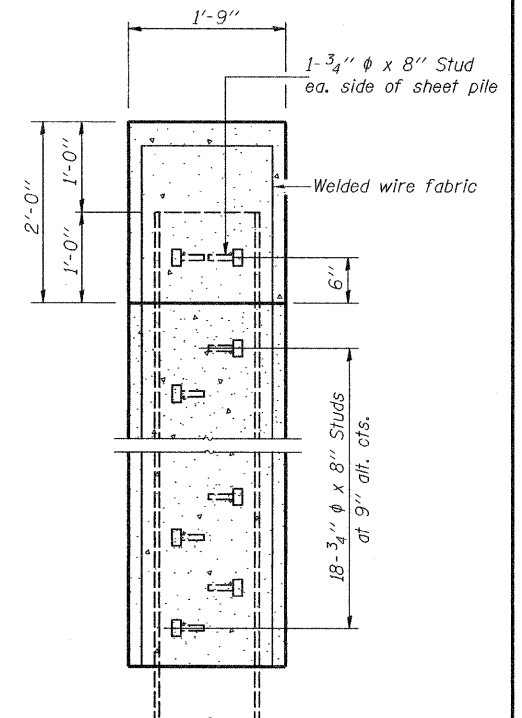
N.W. & S.E. PERMANENT SHEET PILING



SECTION B-B



DETAIL B

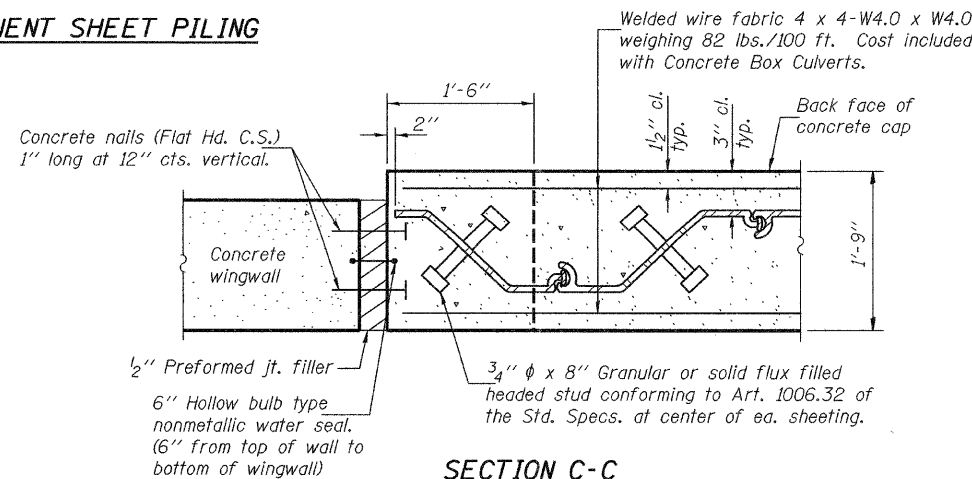


SECTION D-D

NOTES FOR GEOGRID TIEBACK SYSTEM

- Steel elements of geogrid tieback shall be Grade A36.
- Fill material behind the permanent sheet piling shall be CA 5 or CA 7 according to Section 1004 of the Std. Specs, with limits as shown in Section B-B. The material shall be compacted with hand operated compaction equipment only, and no heavy compaction equipment is allowed.
- Sheet piling wing portions shall be backfilled such that the permanent fill in front be placed at the same time as the permanent fill in back in order to minimize wall movement during construction.
- When drilling 1" ϕ holes in sheet piling for 7/8" ϕ threaded rod, maintain clearance from bends in sheet piling to insure that 3" x 3" washer fits flush against sheet piling.
- The Contractor shall supply Geogrid Soil Reinforcement with a Long Term Design Strength (LTDS) greater than 2k/ft per GRI GG4.

Notes: Hard driving may likely be encountered upon installation of the sheet piling to their required plan tip elevations. The Contractor shall provide the appropriate driving equipment for the soil conditions indicated in the boring logs. If sheet piling does not reach its design tip elevation, the Bureau of Bridges and Structures shall be notified.
The concrete cap for permanent sheet piling shall be measured and paid for as Concrete Box Culverts.
The cost of studs, concrete nails, water seal, and 1/2" PJF shall be included with Permanent Steel Sheet Piling.



SECTION C-C

PERMANENT SHEET PILING DETAILS
STRUCTURE NO. 031-2012

DESIGNED	Jay Edwards/ Brad Hessing
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR/BLH

EXAMINED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 9 11 SHEETS	F.A.P. RTE. 761	SECTION 104-BR-2	COUNTY GREENE	TOTAL SHEETS 82	SHEET NO. 32
	CONTRACT NO. 76987				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					