

1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431	USER NAME = vanessem	DESIGNED RRD	REVISED -	10-26-2012 RRD MCHENRY COUNTY DIVISION OF TRANSPORTATION		TR SECTION	TOTAL SHEET
JOLIET, ILLINOIS 60431		CHECKED AJS	REVISED -		RETAINING WALL DETAILS (4 OF 5)		COUNTY SHEETS NO.
STRAND (815) 744-4200	PLOT SCALE =	DRAWN BJF	REVISED -	HILL ROAD BRIDGE OVER	SHEET NO. 19 OF 27 SHEETS	21 08-00356-00-BR	MCHENRY 77 49
ASSOCIATES' IDFPR NO. 184-001273	PLCT DATE = 10/26/2012	CHECKED RRD	REVISED -	NORTH BRANCH NIPPERSINK CREEK		-	CONTRACT NO. 63666
						ILLINOIS FED. A	AID PROJECT

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 3_4 " ϕ , holes Contractor shall submit, for review and approval, shop drawings that detail fabrication, erection, Installation, etc. of Permanent Steel Sheet Pilings and Pile Caps. Permanent Sheet Pile shall meet requirements of ASTM A328. Sheet pile shall have an effective section modulus meeting or exceeding the values indicated on the elevations view on Sheet 16 thru 18 of 27 with a C15x33.9 cap or a cap that will provide proper cover. \rightarrow Use of an alternative section is subject to approval of the Engineer. See Secial Provisions For backfilling and embankment, see Roadway Plans. If Contractor elects to use larger Permanent Steel Sheet Pile size, sheet pile cap size shall increase as required to fit wall. New size shall be approved by Engineer and provided at no additional cost to contract. All steel and associated hardware required for the installation of the whaler and tie rods shall be paid for as Furnishing and Erecting Structural Steel. These items include, but are not limited to turn buckle, tie rods, plates, nuts, MC sections, spacer and washers. All excavation and backfill associated with the installation of the anchor road and whalers shall be included in the cost of Permanent Steel Sheet Pilings. See Sheet 2 of -27 for Section thru Abutment Smin of Anchor Wali = 18.1 in 3/ft All whalers supporting the rods shall be spliced using a full moment splice. Location of the splice shall be determined by the Contractor. The contractor shall submit shop <u>-/A</u> drawings of the spice detail to the Engineer for approval. The shop drawings shall be sealed by an Illinois Licensed Structural Engineer. The splice shall conform the AASHTO ³₄" Galv. bolt with galv. nut and washer. Provide 1 schedule 40 pipe spacer between whales, space at min. 2'-0" o.c. and max. 3'-0" o.c. pipe spacers. Cost included in Furnishing and Erecting Structural -Steel, typ. $\sim\sim\sim\sim\sim$ I^I2" ¢ Tie rod r C with upset threads minn \triangle $\overline{\mathfrak{G}}$ 10" x 10" x 1¹2 1 4" Ø Galv. nut-– Grade $\sim \sim \sim \sim$ Permanent Steel Sheet Pilina $-\frac{3}{4}$ " Galv. bolt. typ. -1³8" Ø Galv. nut 10" x 10" x 1" Galv. BILL OF MATERIAL Item Uni Total Permanent Steel Sheet Piling Sq Ft , 17,233 Pipe Underdrains for 710 Foot Structures 4" Furnishing and Erecting L Sum 1 Structural Steel Porous Granular 75 Cu Yd mbankment (Special)