

**GENERAL NOTES**

Fasteners shall be high strength bolts (AASHTO M 164, Type 3). Bolts  $\frac{7}{8}$ "  $\phi$ , open holes  $\frac{15}{16}$ "  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 95,670 Pound

All structural steel shall be AASHTO M 270 Grade 50W.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in Section 506 of the Standard Specifications.

Anchor Bolts shall be set before bolting diaphragms over supports.

No field welding is permitted except as specified in the Contract documents.

Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{8}$  inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two  $\frac{1}{8}$ " adjusting shims, of the dimension of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

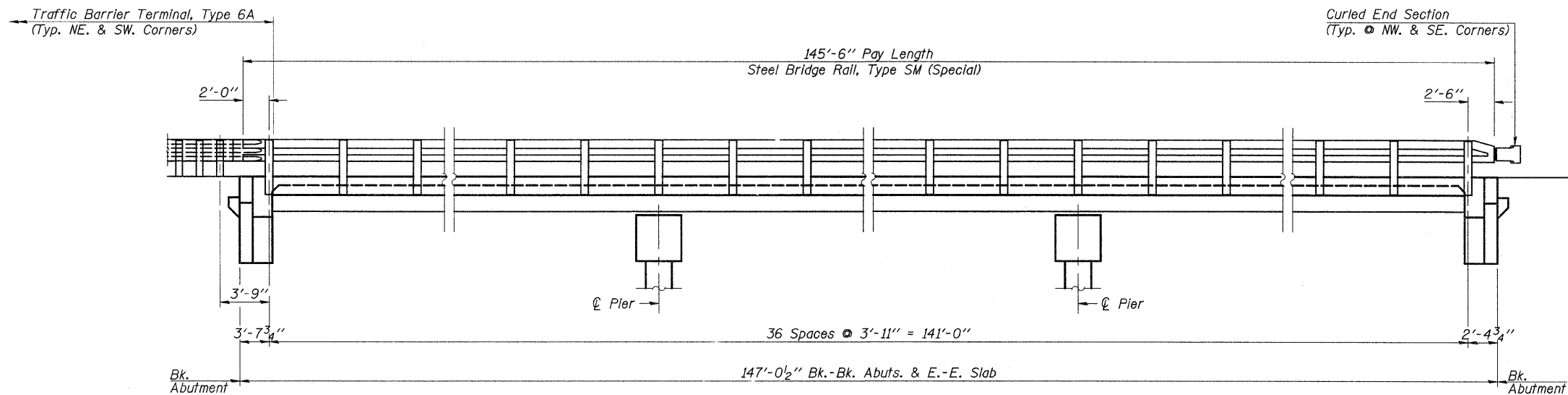
The contractor shall drive one metal shell test pile in a permanent location at the west abutment & one metal shell test pile at pier #2 as directed by the Engineer before ordering the remainder of piles.

The Contractor shall drive test piles to 110 percent of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of piles.

All exposed portions of abutments, wing walls, and piers shall receive a rubbed finish in accordance with Article 503.15 (b) of the Standard Specifications. Cost to be included in cost of Concrete Structures.

The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.

See Sheets 19 & 20 of 21 for Soil Boring Data.



**RAIL POST SPACING**

(Looking North at South Rail)  
(Looking South at North Rail)

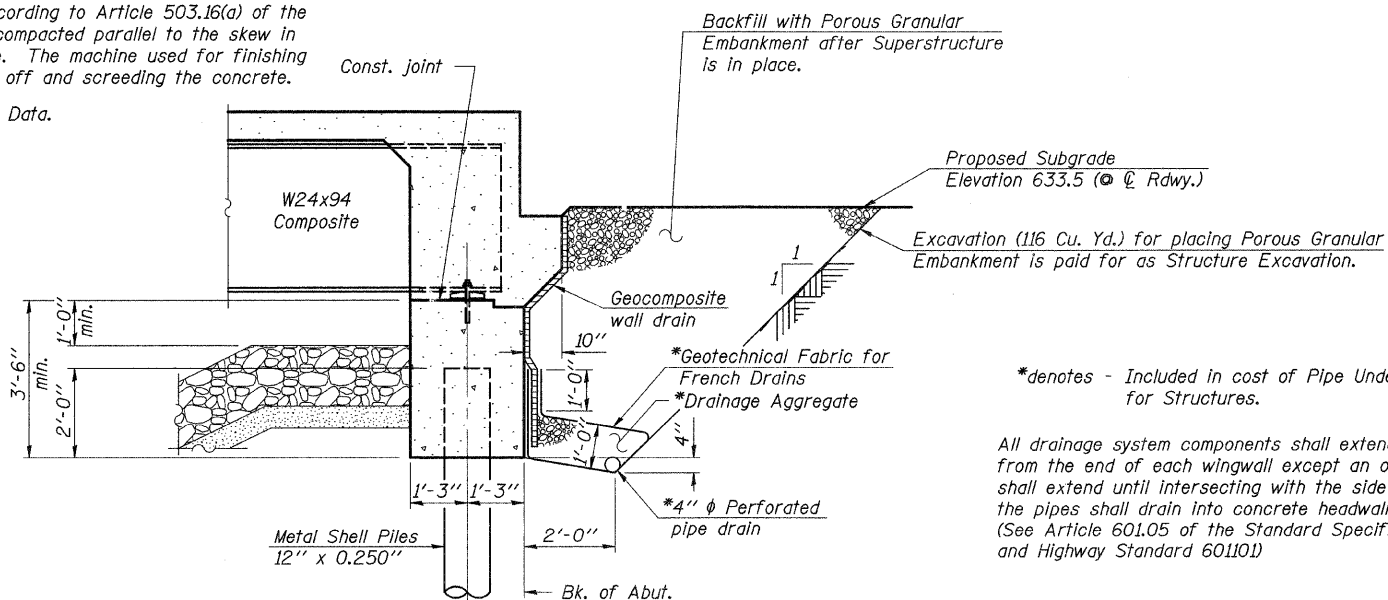
MAIN MARTINTON DITCH NO. 3  
BUILT 20\_\_ BY  
MARTINTON ROAD DISTRICT  
IROQUOIS COUNTY  
SEC. 07-16121-00-BR  
F.A. PROJ. BROS-075(145)  
STR. NO. 038-4558 LOADING HL-93

**LETTERING FOR NAME PLATE**

See Std. 515001

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		102	102
Stone Riprap, Class A5	Ton		1,335	1,335
Stone Dumped Riprap, Class A5	Ton		493	493
Filter Fabric	Sq. Yd.		1,307	1,307
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		116	116
Concrete Structures	Cu. Yd.		76.4	76.4
Concrete Superstructure	Cu. Yd.	138.4		138.4
Bridge Deck Grooving	Sq. Yd.	466		466
Protective Coat	Sq. Yd.	550	12	562
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2,592		2,592
Reinforcement Bars, Epoxy Coated	Pound	34,350	8,640	42,990
Steel Bridge Rail, Type SM (Special)	Foot	291		291
Furnishing Metal Shell Piles 12" x 0.250"	Foot		440	440
Furnishing Metal Shell Piles 14" x 0.250"	Foot		969	969
Driving Piles	Foot		1,409	1,409
Test Pile Metal Shells	Each		2	2
Concrete Encasement	Cu. Yd.		61.2	61.2
Name Plates	Each		1	1
Pipe Underdrains for Structures 4"	Foot		165	165
Geocomposite Wall Drain	Sq. Yd.		66	66
Anchor Bolts 1"	Each	24		24
Anchor Bolts 1/4"	Each	24		24



\*denotes - Included in cost of Pipe Underdrains for Structures.

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes the pipes shall drain into concrete headwalls\* (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

**GENERAL NOTES, BILL OF MATERIALS & MISCELLANEOUS DETAILS**  
S.N. 038-4558

DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.

**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

<p><b>FEHR-GRAHAM &amp; ASSOCIATES, LLC</b> ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL</p>	TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55B	07-16121-00-BR	IROQUOIS	33	6
MARTINTON ROAD DIST. ILLINOIS			CONTRACT NO. 87487		
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com			F.A. PROJ. BROS-075(145)		