

**GENERAL NOTES**

- All new structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
- Fasteners shall be ASTM F3125 Grade A325 Type 1. Bolts 7/8" Ø & holes 1 1/16" Ø, unless noted otherwise. Fasteners shall be hot-dip galvanized. See special provision "Hot-Dip Galvanizing for Structural Steel".
- Calculated weight of Structural Steel = 26,656 pounds M270, Grade 36 and 173,837 pounds M270, Grade 50.
- No field welding is permitted except as specified in contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8"(.01 ft.). Adjustment shall be made by either grinding the surface or by shimming the bearings.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- The finishing machine rails shall be placed on top of the top flange of the exterior beams within the deck pour. Beam blocks shall be placed between the beams at all tie locations in each bay for the full width of the deck pour.
- Concrete Sealer shall be applied to the designated areas of the pier crashwalls.
- Drainage Aggregate shall be CA-7 only.
- Construction of the proposed footings will require removal of the existing footings at all Piers.

**INDEX OF SHEETS**

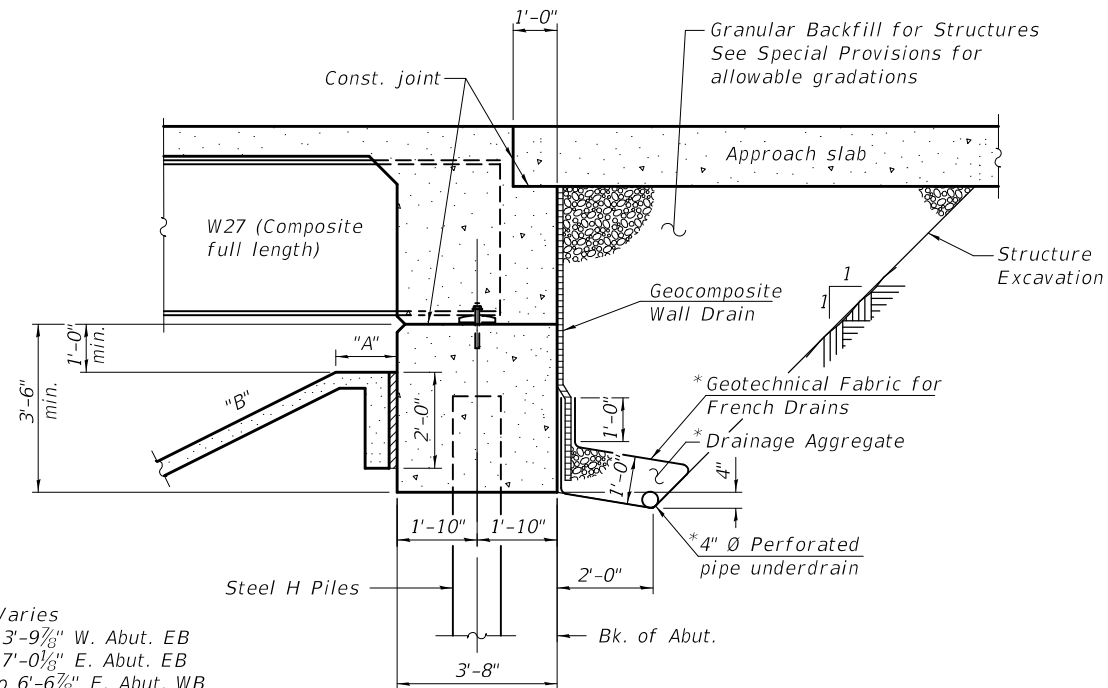
- General Plan and Elevation
- General Notes & Total Bill of Material
- Footing Layout
- Staged Construction Details
- Temporary Concrete Barrier
- Top of Slab Elevations
- Top of Approach Slab Elevations
- Superstructure WB
- Superstructure Details WB
- Superstructure EB
- Superstructure Details EB
- Integral Abutment Diaphragm WB & EB
- Bridge Approach Slab Details
- Concrete Parapet Slipforming Option
- Framing Plan
- Structural Steel Details
- Bearing Details
- Abutments
- Piers
- Steel Pile Details
- Bar Splicer Details
- Boring Logs

STATION 459+98.70  
BUILT 202\_ BY  
STATE OF ILLINOIS  
F.A.P. RTE. 313 SEC. (94-16HB)BR  
LOADING HL-93  
STRUCTURE NO. 094-0053

STATION 459+98.70  
BUILT 202\_ BY  
STATE OF ILLINOIS  
F.A.P. RTE. 313 SEC. (94-16HB)BR  
LOADING HL-93  
STRUCTURE NO. 094-0054

**NAME PLATE (WB)**  
See Std. 515001

**NAME PLATE (EB)**  
See Std. 515001



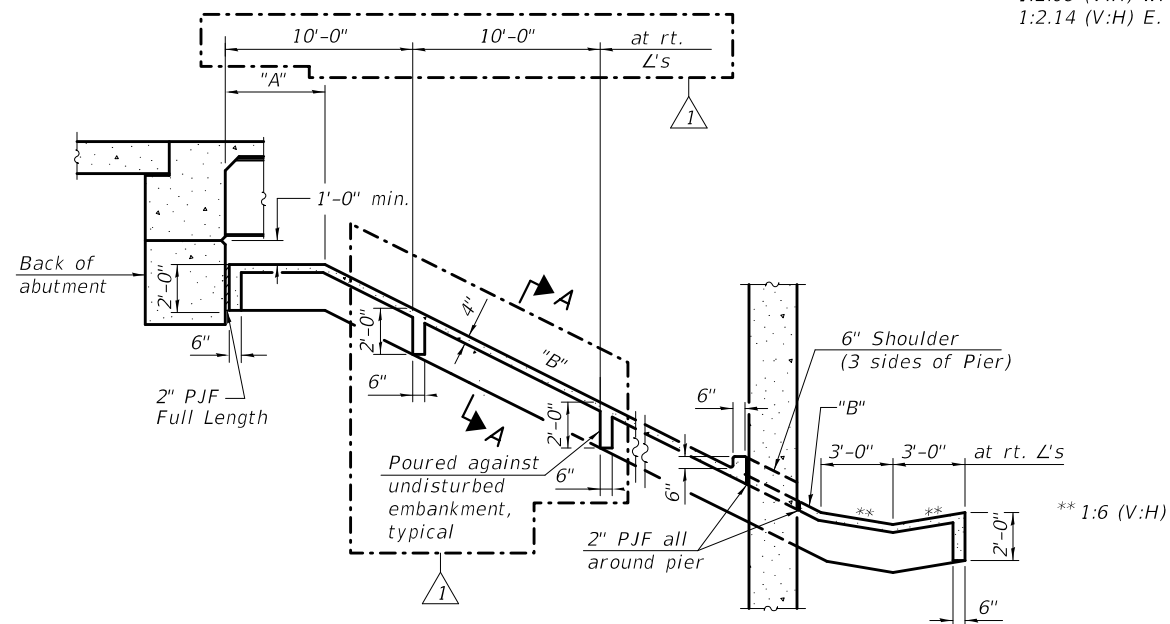
"A" - Berm width Varies  
1'-0" min. to 3'-9 7/8" W. Abut. EB  
1'-0" min. to 7'-0 1/8" E. Abut. EB  
3'-9 1/2" min. to 6'-6 7/8" E. Abut. WB  
3'-7 7/8" min. to 5'-2 1/4" W. Abut. WB

"B" - Slope at right angles  
1:2.09 (V:H) W. Abut.  
1:2.14 (V:H) E. Abut.

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

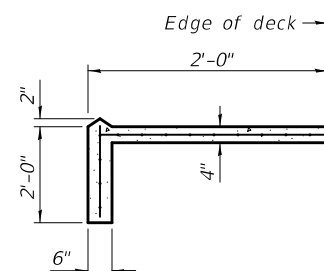
\*Included in the cost of Pipe Underdrains for Structures.  
(See Special Provisions)

Note:  
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).



**SECTION THRU CONCRETE SLOPEWALL**

Sloped wall shall be reinforced with welded wire fabric, 6"x6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft



**SECTION A-A**  
(Typ. All four corners)  
N. Edge WB  
S. Edge EB

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			2
Structure Excavation	Cu. Yd.		1887	1887
Granular Backfill For Structures	Cu. Yd.		308	308
Concrete Structures	Cu. Yd.		725.7	725.7
Concrete Superstructure	Cu. Yd.	474.0		474.0
Concrete Superstructure (Approach Slab)	Cu. Yd.	241.3		241.3
Protective Coat	Sq. Yd.	2149	51	2200
Bridge Deck Grooving	Sq. Yd.	1698		1698
Stud Shear Connectors	Each	7992		7992
Reinforcement Bars, Epoxy Coated	Lb.	205,330	96,870	302,200
Name Plates	Each	2		2
Furnishing and Erecting Structural Steel	L.S.	1		1
Furnishing Steel Piles HP10x57	Foot		691	691
Driving Piles	Foot		691	691
Test Piles Steel HP10x57	Each		2	2
Pipe Underdrains for Structures 4"	Ft.		390	390
Geocomposite Wall Drain	Sq. Yd.		177	177
Bar Splicers	Each	1337	520	1857
Anchor Bolts, 1"	Each	96		96
Slope Wall 4 Inch	Sq. Yd.		2007	2007
Temporary Sheet Piling	Sq. Ft.		803	803
Temporary Soil Retention System	Sq. Ft.		7231	7231
Temporary Support System	Each		4	4
Elastomeric Bearing Assembly, Type 1	Each	24		24
Concrete Sealer	Sq. Ft.		1402	1402

MODEL: Default  
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**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = rmcjilton	DESIGNED - MCB	REVISED - 10/16/2020 RJM
PLOT SCALE = 0:2.000000 " = 1" / in.	CHECKED - MSJ	REVISED -
PLOT DATE = 10/16/2020	DRAWN - CFC	REVISED -
	CHECKED - MCB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES & TOTAL BILL OF MATERIAL  
STRUCTURE NO. 094-0053 (WB) & 094-0054 (EB)**

SHEET 2 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	(94-16 HB) BR	WARREN	19	75
CONTRACT NO. 68D95			ILLINOIS FED. AID PROJECT	