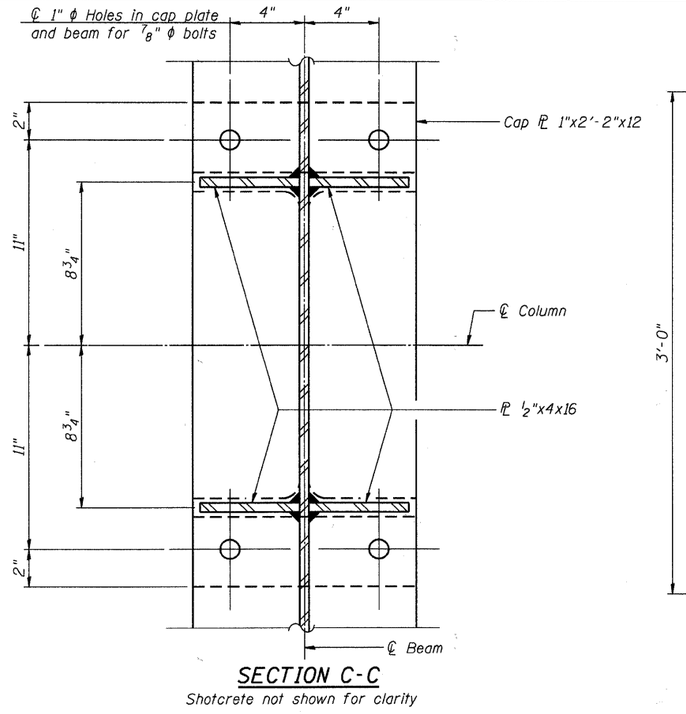
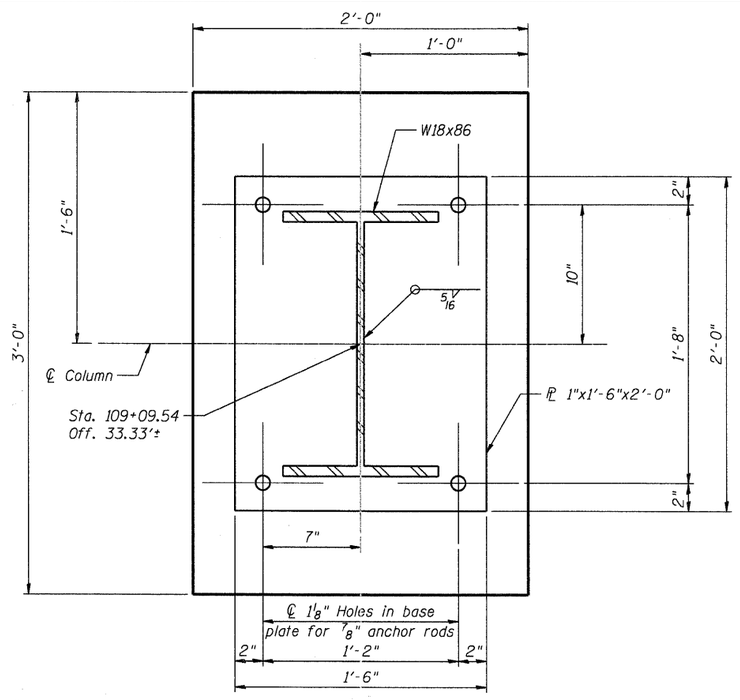


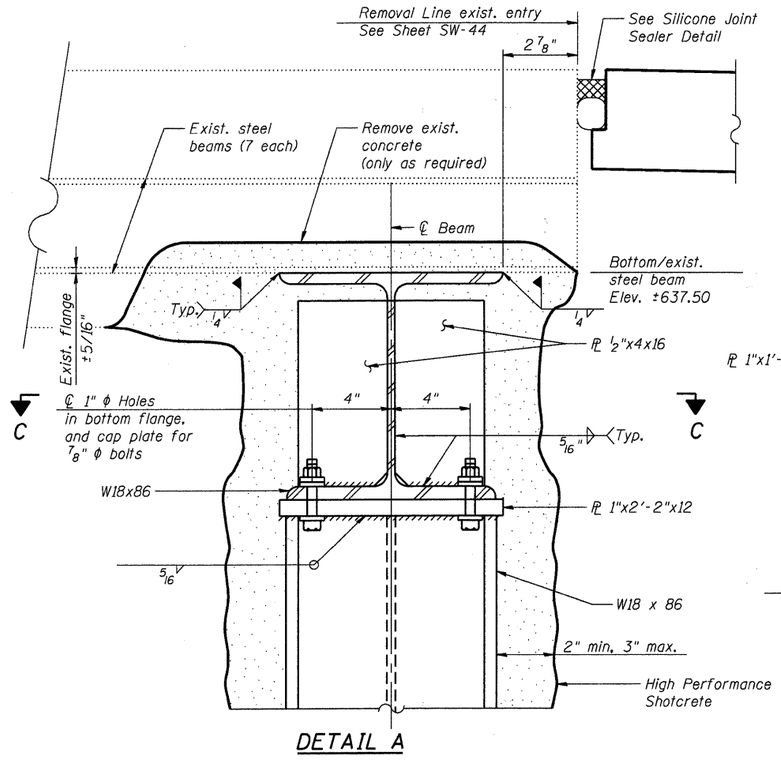
SECTION C-C

Shotcrete not shown for clarity

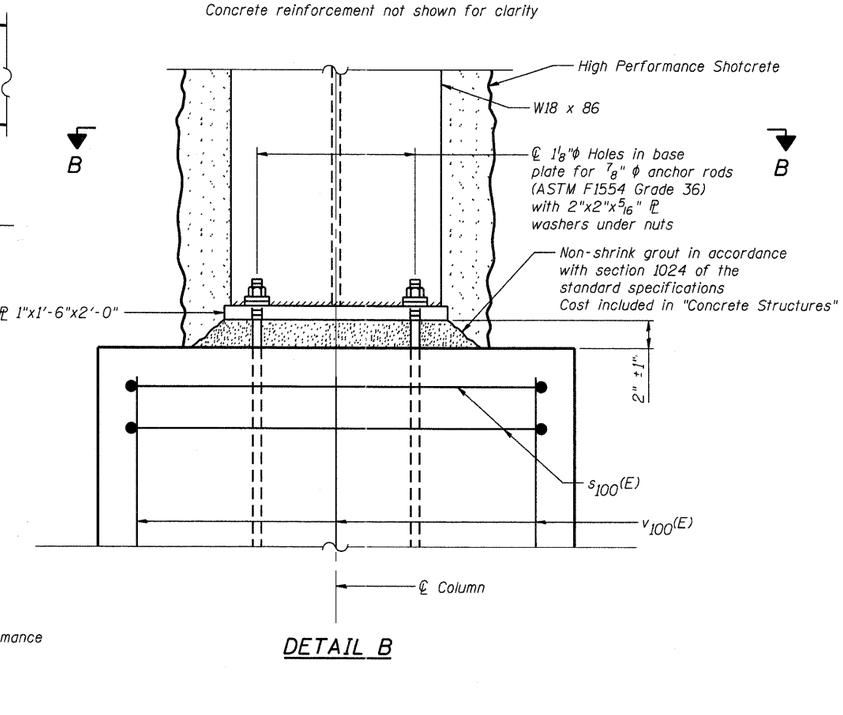


SECTION B-B

Shotcrete not shown for clarity
Concrete reinforcement not shown for clarity



DETAIL A



DETAIL B

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Install Underwater Structure Excavation Protection (See Erosion Control Plans).

2. Construct footing and column.

3. Remove concrete from underside of existing steel beams as indicated and attach W18 x 86 to existing beams.

4. Jack up (preload) existing structure at locations shown in Section E-E in accordance with the applicable portions of the Guide Bridge Special Provision "Jack and Remove Existing Bearings". Jacking load shall be 10,000 pounds at each location and the two locations shall be jacked up simultaneously. Observe condition of existing structure throughout preloading application. Cost for jacking included in "Furnishing and Erecting Structural Steel."

5. Bolt steel column assembly to W18 x 86.

6. Adjust nuts and install grout bewteen top of concrete column and base plate of steel column assembly to bring top of HSS assembly into contact with W12 x 65

7. Remove jacks or reduce preload. Observe condition of existing structure throughout unloading operation.

8. Sawcut existing walkway slab and beams full depth at removal line shown on Section A-A.

9. Install Silicone Joint Sealer with Bridge Construction (See SW-10 and SW-11).

Notes:

1. Design stress field units for structural steel is fy = 50,000 psi (AASHTO M270 Grade 50).

2. All structural steel, nuts and washers shall be galvanized according to AASHTO M111 or M232 (as applicable). H.S. Bolts shall be galvanized according to to AASHTO M298, Class 50.

3. Prior to ordering any material, the Contractor shall verify in the field all heights, lengths, and shim thickness dimensions.

4. Cost of Structural Steel, H.S. Bolts, nuts and washers are included in Furnishing and Erecting Structural Steel.

5. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in. ϕ, holes 15/16 in. ϕ, unless otherwise noted.

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

7. If a portion of the footing is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to the top of the footing.

8. High Performance Shotcrete shall be installed in accordance with the applicable portions of the Guide Bridge Special Provision "Structural Repair of Concrete." This work will be paid for as "Structural Repair of Concrete (Depth less than or Equal to 5")."

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n100(E)	12	#8	5'- 9"	⌋
s100(E)	30	#4	5'- 10"	⊓
s101(E)	15	#4	2'- 6 1/2"	⌊⌋
t100(E)	8	#8	7'- 8"	—
v100(E)	12	#8	12'- 8"	—
w100(E)	8	#8	7'- 8"	—

Structure Excavation	Cu. Yd.	28.0
Concrete Structures	Cu. Yd.	8.8
Furnishing and Erecting Structural Steel	Pound	2,300
Reinforcement Bars, Epoxy Coated	Pound	1,060
Porous Granular Embankment (Special)	Cu. Yd.	22.0
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	190

COMPANY NAME: HRGREEN
PROJECT CONTACT: Michael G. Harding
CLIENT: City of Aurora
DATE PLOTTED: 1/26/2011 11:02:44 AM
FILE NAME: 8609047d-Walk03.dgn
PLOT DRIVER: pdf.pltr
PEN TABLE: Struct 22x34.tbl

HRGreen
HRGreen.com
Illinois Professional Design Firm # 184-001322

USER NAME = whood	DESIGNED - KMA	REVISED -
	CHECKED - RGD	REVISED -
PLOT SCALE = N.T.S.	DRAWN - WJH	REVISED -
PLOT DATE = 7/26/2011	CHECKED -	REVISED -

CITY OF AURORA
DOWNER PLACE OVER THE WEST BRANCH OF THE FOX RIVER

31 W. DOWNER PLACE BUILDING ENTRY SUPPORT
STRUCTURE NO. 045-6006
SHEET NO. SW-46 OF SW-48 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00264-00-BR	KANE	164	98
		CONTRACT NO. 63620		
	ILLINOIS FED. AID PROJECT			