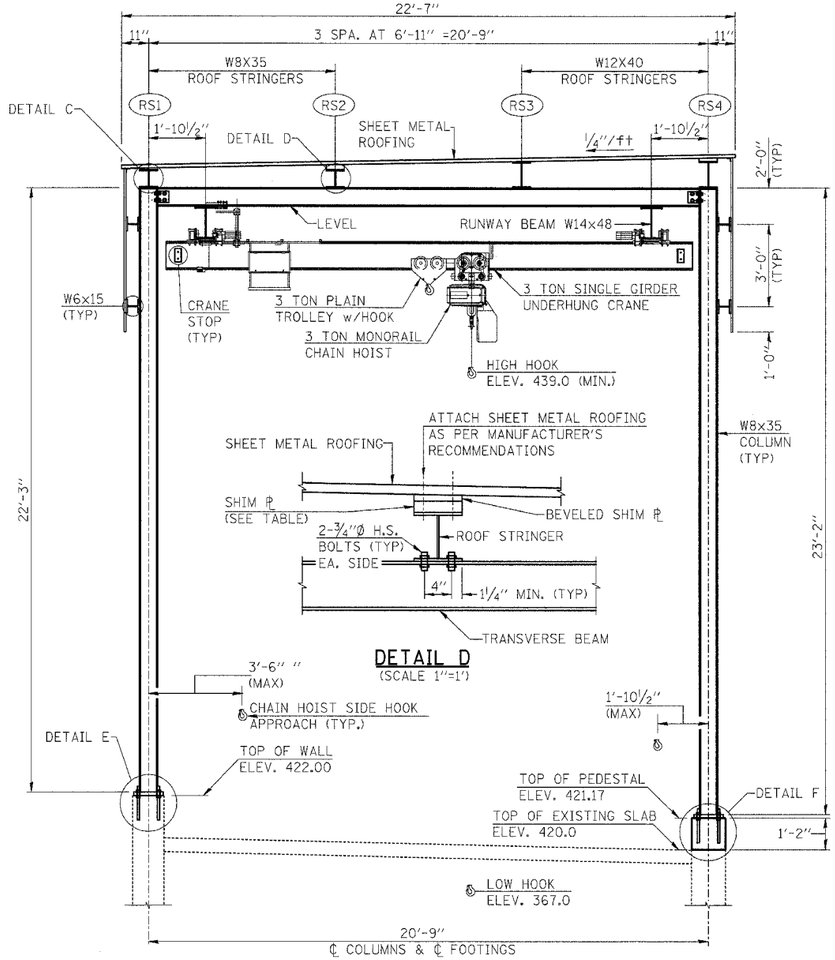
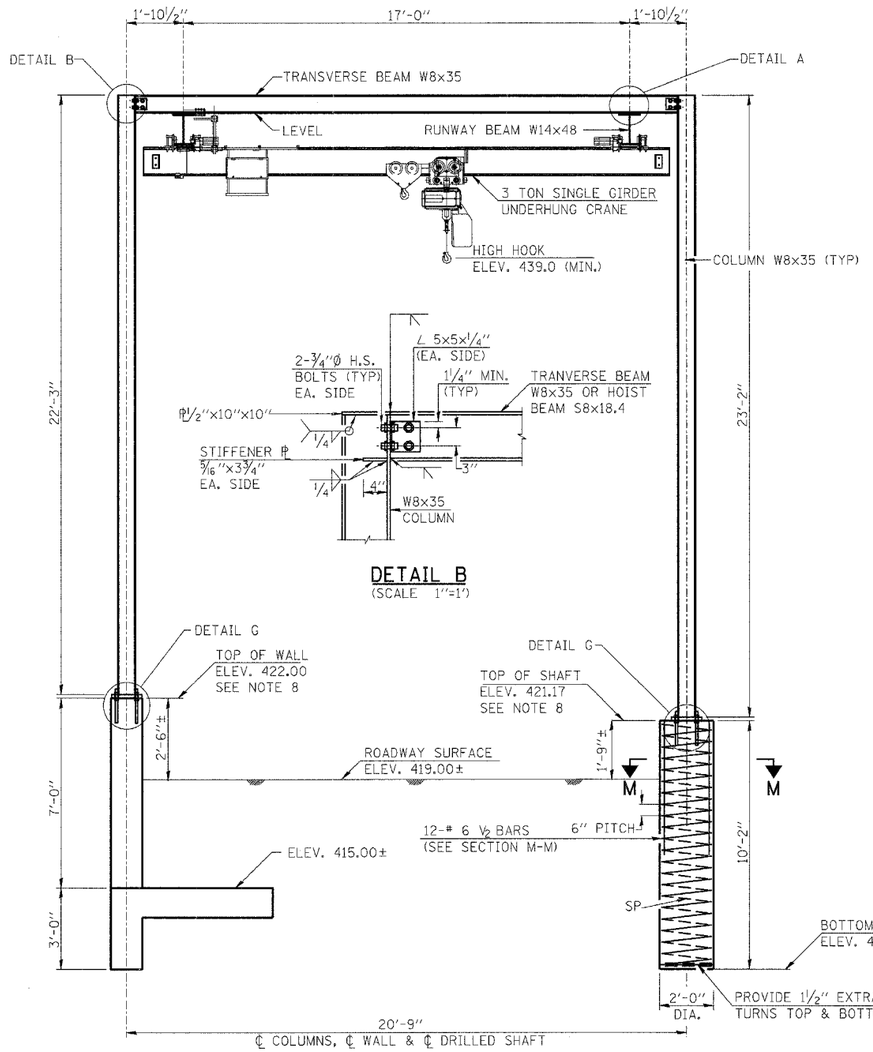
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-(1,2)T-17	ST. CLAIR	77	25
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLAN — SURVEYED / PLOTTED / ALL DRAWINGS CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / DATE



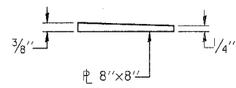
DETAIL D
(SCALE 1"=1')



DETAIL B
(SCALE 1"=1')

NOTES:

1. FOR SECTION M-M SEE SHEET S9
2. FOR DETAILS E, F, AND G SEE SHEET S9
3. FOR COLUMN FOOTING BILL OF MATERIALS AND BAR DETAILS SEE SHEET S9.
4. ALL STRUCTUAL STEEL SHALL BE AASHTO M270 GRADE 50
5. FASTENERS SHALL BE HIGH STRENGTH BOLTS (AASHTO M164, TYPE 3) BOLTS ¾"Ø,HOLES 13/16 "Ø.
6. ALL STRUCTUAL STEEL SHALL BE GALVANIZED AFTER SHOP FABRICATION ACCORDING TO AASHTO M111 AND ASTM385, EXCEPT BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED ACCORDING TO AASHTO M-232.
7. ALL FIELD DRILLED HOLES AND ANY DAMAGE TO GALVANIZATION SHALL BE COATED WITH AN APPROVED ZINC RICH PAINT BEFORE ERECTION.
8. TOP OF SHAFT AND WALL ELEVATIONS SHALL BE AT SAME ELEVATION AS FRAME SUPPORT ELEVATIONS ON PUMP STATION.

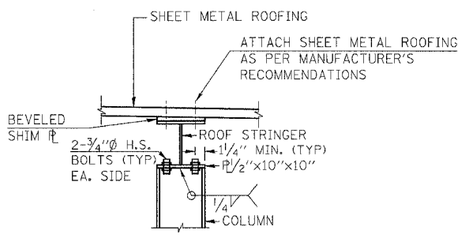


BEVELED SHIM PL
(NOT TO SCALE)

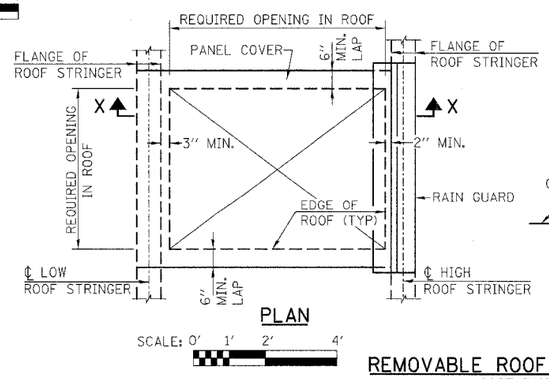
ALL ROOF STRINGERS REQUIRE A BEVELED STEEL SHIM PL TO ACCOUNT FOR ROOF PITCH (10 REQUIRED). ADDITIONAL SHIMS ARE REQUIRED AS SHOWN IN TABLE BELOW.

SHIM PL TABLE

ROOF STRINGER	PL SIZE
RS1	⅜"x8"x8"
RS2	2⅛"x8"x8"
RS3	-
RS4	1¾"x8"x8"



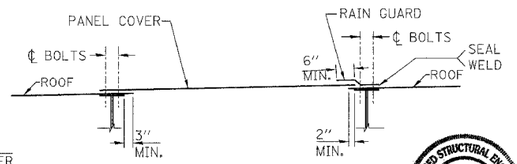
DETAIL C
SCALE: 0' 6" 1' 2'



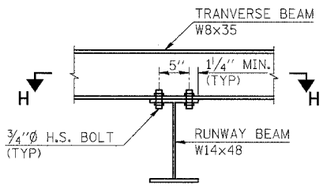
PLAN
SCALE: 0' 1' 2' 4'

SECTION A-A
SCALE: 0' 1' 2' 4' 6'

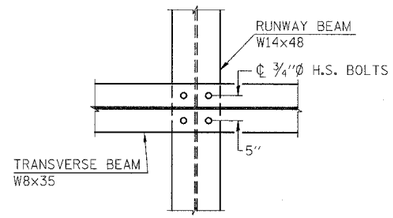
SECTION B-B
SCALE: 0' 1' 2' 4' 6'



SECTION X-X



DETAIL A
SCALE: 0' 6" 1' 2'



SECTION H-H
SCALE: 0' 6" 1' 2'

REMOVABLE ROOF PANEL DETAILS
COST INCIDENTAL
(4-REQUIRED)

LICENSED STRUCTURAL ENGINEER — MICHAEL T. HALEY 081-005991 — STATE OF ILLINOIS
9-7-05

S8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOWMAN AVENUE PUMP STATION REHABILITATION

OVERHEAD CRANE FRAMING

SCALE: AS SHOWN — DRAWN BY: JMD
DATE: 09-12-05 — CHECKED BY: KC

PLOT DATE: *DATE-TIME*

LIN ENGINEERING, LTD.

DATE
DATETIME
DGN-SPEC
REF
REF