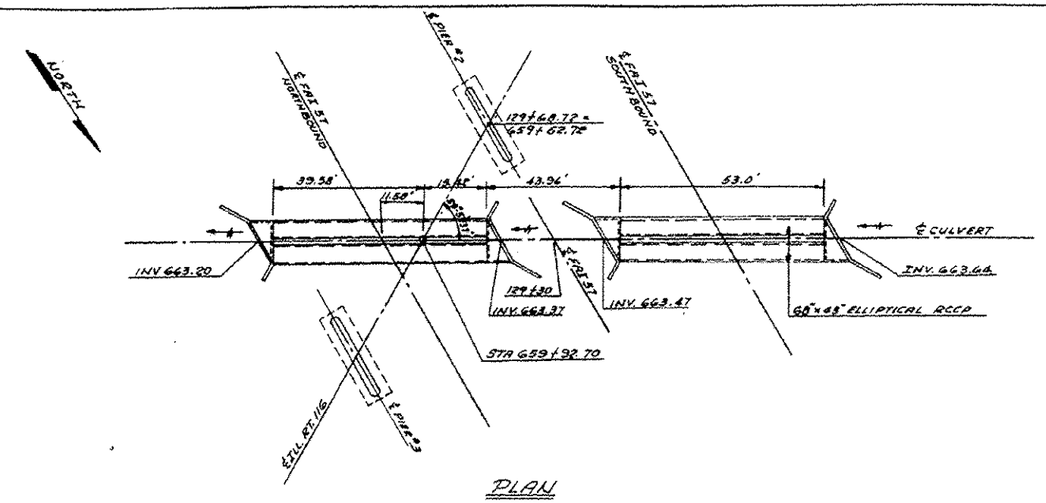
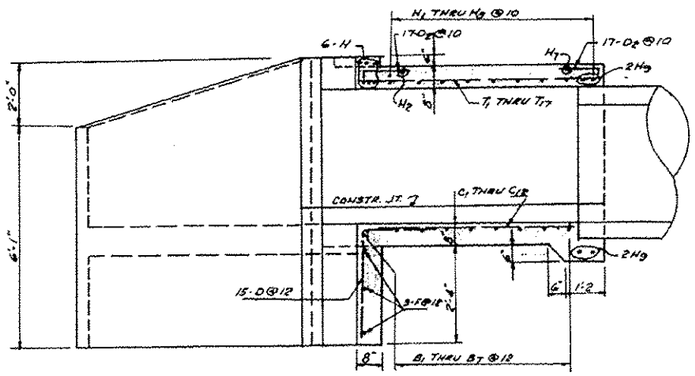
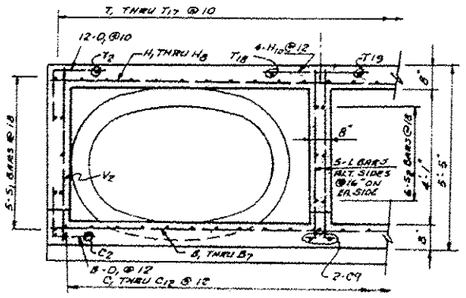
57 38-3 HB IROQUOIS 45 26



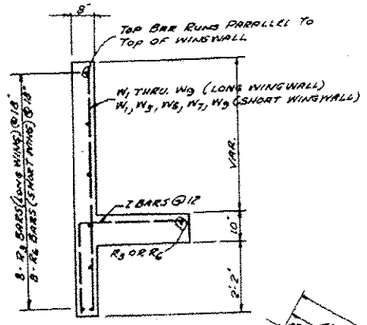
PLAN



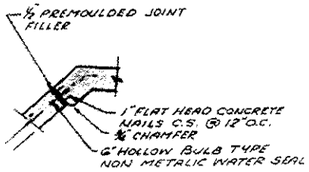
SECTION C-C



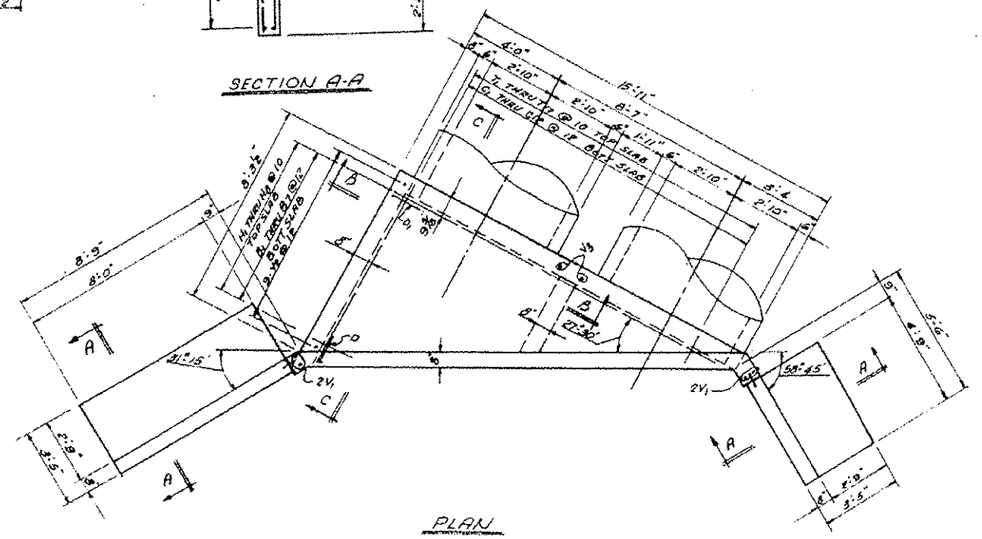
SECTION B-B



SECTION A-A

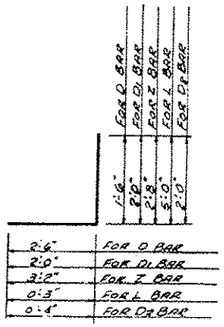


CORNER DETAIL



PLAN

2'-6"	FOR D BAR	
2'-0"	FOR D1 BAR	
3'-2"	FOR Z BAR	
0'-3"	FOR L BAR	
0'-4"	FOR D2 BAR	



f_s = 20,000 psi
f_c = 1,400 psi BARREL
f_c = 1,000 psi WINGS
v_c = 90 psi BARREL
v_c = 75 psi FOOTING
n = 10

LOADING M 326

GENERAL NOTES

CLASS X CONCRETE SHALL BE USED THROUGHOUT.
EXPOSED EDGES SHALL BE BEVELED 3/4".
FOR BACKFILL AND EMBANKMENT SEE STANDARD SPECIFICATIONS.
ALL BARS SHALL BE LAPPED 20 DIAMETERS UNLESS OTHERWISE SPECIFIED.

THE TOP OF THE CULVERT, THE BACKS OF THE SIDEWALLS ABOVE THE LOWER CONSTRUCTION JOINT AND BACKS OF THE WINGS ABOVE THE TOPS OF THE FOOTINGS SHALL BE WATERPROOFED IN ACCORDANCE WITH ARTICLE 51.21 OF THE STANDARD SPECIFICATIONS.

NON METALLIC WATER SEAL USED IN THE WINGWALL JOINTS SHALL EXTEND WITHIN 6" OF THE TOP OF THE HEADWALL.

BILL OF MATERIALS
ONE HEADWALL

BAR	NO.	SIZE	LENGTH	BAR	NO.	SIZE	LENGTH
B_1	1	4	15'-3	T_1	1	5	8'-3
B_2	1	4	13'-2	T_2	2	5	7'-10
B_3	1	4	11'-2	T_3	1	5	7'-5
B_4	1	4	9'-1	T_4	1	5	7'-0
B_5	1	4	7'-1	T_5	1	5	6'-7
B_6	1	4	5'-0	T_6	1	5	6'-2
B_7	1	4	3'-0	T_7	1	5	5'-9
				T_8	1	5	5'-4
				T_9	1	5	4'-11
C_1	1	4	8'-4	T_{10}	1	5	4'-6
C_2	2	4	7'-10	T_{11}	1	5	4'-1
C_3	1	4	6'-8	T_{12}	1	5	3'-8
C_4	1	4	6'-2	T_{13}	1	5	3'-3
C_5	1	4	5'-8	T_{14}	1	5	2'-10
C_6	1	4	5'-2	T_{15}	1	5	2'-5
C_7	1	4	4'-8	T_{16}	1	5	2'-0
C_8	1	4	4'-1	T_{17}	1	5	1'-6
C_9	3	4	6'-3	T_{18}	1	6	5'-0
C_{10}	1	4	3'-1	T_{19}	1	6	3'-6
C_{11}	1	4	2'-7				
C_{12}	1	4	2'-1				
				L	5	4	5'-3
D	15	4	4'-0	R_3	8	4	7'-8
D_1	20	4	4'-0	R_6	6	4	4'-6
D_2	34	4	2'-4	S_1	5	5	18'-3
				S_2	6	4	4'-6
				V_1	4	5	7'-9
F	3	4	17'-6	V_2	9	5	5'-1
H	6	6	17'-6	V_3	2	5	5'-7
H_1	1	5	14'-11	W_1	2	4	7'-8
H_2	2	5	13'-4	W_2	1	4	7'-5
H_3	1	5	11'-8	W_3	2	4	7'-2
H_4	1	5	10'-1	W_4	1	4	6'-11
H_5	1	5	8'-5	W_5	2	4	6'-8
H_6	1	5	6'-10	W_6	1	4	6'-5
H_7	2	5	5'-2	W_7	2	4	6'-2
H_8	1	5	3'-6	W_8	1	4	5'-11
H_9	4	6	15'-7	W_9	2	4	5'-8
H_{10}	4	4	3'-9				
				Z	14	4	5'-10

CLASS X CONCRETE CU. YDS. 10.8
REINFORCEMENT BARS LBS. 1071

FAI 57 SEC 38-3HB
FAI ROUTE 57
STA 129+30 LT & RT

FILE NAME = c:\pw_work\pwidot\dunoanbd\d0315542\D036C53-sht-details.dgn	USER NAME = dunoanbd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/18/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(38-3)RS-2	IROQUOIS	186	48
		CONTRACT NO. 66C53		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		