

REINFORCEMENT SCHEDULE

MARK	SIZE	LENGTH	BENDING DIAGRAM	NO. REQ'D	WT. EACH	TOTAL WEIGHT	LOCATION OF BAR
Reinforcement in Gravity Conduit Floor & Outer Wall (Next to Pump House)							
Type AB							
0821-9AB	1"φ	21'-3"	a = 18'-8"	140	58.1	8134	Floor Slab
0811-9AB	1"φ	11'-3"	a = 8'-8"	43	31.4	1350	Inside of Wall
0621-6AB	3/4"φ	21'-6"	a = 18'-10"	74	32.3	2390	Floor Slab
Type BA							
0616-6BA	3/4"φ	16'-6"	a = 9'-6" b = 7'-0"	8	24.8	198	Floor Slab and Wall
0617-0BA	3/4"φ	17'-0"	a = 10'-0" b = 7'-0"	4	25.5	102	do
0617-6BA	3/4"φ	17'-6"	a = 10'-6" b = 7'-0"	4	26.3	105	do
0617-3BA	3/4"φ	17'-3"	a = 10'-3" b = 7'-0"	2	25.9	52	do
0616-9BA	3/4"φ	16'-9"	a = 9'-9" b = 7'-0"	2	25.2	50	do
0513-3BA	5/8"φ	13'-3"	a = 12'-0" b = 1'-3"	16	13.8	221	Floor Slab
Type CA							
0821-0CA	1"φ	21'-0"	a = 5'-9" b = 9'-6"	93	56.1	5217	Outside of Wall
0618-0CA	3/4"φ	18'-0"	a = 4'-3" b = 9'-6"	60	27.0	1620	do
0514-0MA	5/8"φ	14'-0"		14	14.6	204	Floor Slab
Type MA							
056-0EA	5/8"φ	6'-0"		16	6.3	101	Floor Slab
Type EA							
058-9HB	5/8"φ	8'-9"		20	9.1	182	Apron at Intake
Type HB							
0530-0	5/8"φ	30'-0"	Straight	98	31.3	3067	Floor Slab and Wall
0526-3	5/8"φ	26'-3"	do	42	27.4	1151	do
0521-6	5/8"φ	21'-6"	do	6	22.4	134	Floor Slab
0619-9	3/4"φ	19'-9"	do	51	29.7	1515	do
0610-0	3/4"φ	10'-0"	do	50	15.0	750	do
069-6	3/4"φ	9'-6"	do	30	14.3	429	Inside of Wall
066-0	3/4"φ	6'-0"	do	12	9.0	108	Gravity Intake Walls at Gate Frames
058-0	5/8"φ	8'-0"	do	20	8.3	166	Floor Slab

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0519-3	5/8"φ	19'-3"	Straight	26	20.1	523	Floor Slab
0519-6	5/8"φ	19'-6"	do	24	20.3	487	Side Walls at Intake
059-6	5/8"φ	9'-6"	do	26	9.9	257	do
0510-0	5/8"φ	10'-0"	do	4	10.4	42	do
0510-6	5/8"φ	10'-6"	do	6	11.0	66	do
0522-0	5/8"φ	22'-0"	do	6	22.9	137	Outside of Wall
0515-6	5/8"φ	15'-6"	do	2	16.2	32	Wall - long
0514-6	5/8"φ	14'-6"	do	2	15.1	30	do
052-0	5/8"φ	2'-0"	do	32	2.1	67	Roof - long
056-9	5/8"φ	6'-9"	do	32	7.0	224	do
Reinforcement in Top Slab of Gravity Conduit (Next to Pump House)							
0610-0	3/4"φ	10'-0"	Straight	43	15.0	645	Transverse Under Heater Room
0619-6	3/4"φ	19'-6"	do	11	29.3	322	do
0621-6AB	3/4"φ	21'-6"		56	32.3	1809	Transverse
Type AB							
0516-6	5/8"φ	16'-6"	Straight	36	17.2	619	Longitudinal
0530-0	5/8"φ	30'-0"	do	64	31.3	2003	do
0821-9AB	1"φ	21'-9"		140	58.1	8134	Top Slab
Type AB							
089-9AB	1"φ	9'-9"	a = 6'-9"	42	26.0	1092	Top Slab Haunch
089-0AB	1"φ	9'-0"	do	59	24.0	1416	Bottom Slab Haunch
Reinforcement in Suction Conduit Floor							
0625-9	3/4"φ	25'-9"	Straight	2	38.7	77	Suction Conduit Floor
0519-0	5/8"φ	19'-0"	do	24	19.8	475	do
068-6	3/4"φ	8'-6"	do	15	12.8	192	do
0630-0	3/4"φ	30'-0"	do	48	45.1	2165	do
0618-0	3/4"φ	18'-0"	do	3	27.0	81	do
0719-6	5/8"φ	19'-6"	do	25	39.9	998	do
0821-3	1"φ	21'-3"	do	54	56.7	3062	do
0819-9	1"φ	19'-9"	do	17	52.7	896	do
0818-3	1"φ	18'-3"	do	17	48.7	828	do
0816-0	1"φ	16'-0"	do	17	42.7	726	do
0815-9	1"φ	15'-9"	do	6	42.1	253	do
0814-0	1"φ	14'-0"	do	10	37.4	374	do
0812-6	1"φ	12'-6"	do	10	33.4	334	do
0811-0	1"φ	11'-0"	do	10	29.4	294	do
0512-6	5/8"φ	12'-6"	do	65	13.0	845	Vert. Ins. Face & Corner
069-6	3/4"φ	9'-6"	do	26	14.3	372	Suction Intake Wall
0630-0	3/4"φ	30'-0"	do	36	45.1	1624	do
059-0	5/8"φ	9'-0"	do	160	9.4	1504	Dowels in Haunch

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Reinforcement in Suction Conduit Floor							
Type HA							
0829-6HA	1"φ	29'-6"	a = 12'-6" b = 6'-9" c = 10'-3"	111	78.8	8747	Vertical Outside Face
0827-6HA	1"φ	27'-6"	a = 12'-6" b = 5'-9" c = 9'-3"	30	73.4	2202	do
0632-9MA	3/4"φ	32'-9"		4	49.2	197	Suction Conduit Floor
Type MA							
0628-9EA	3/4"φ	28'-9"		1	43.2	43	do
Type EA							
058-0	5/8"φ	8'-0"	Straight	44	88	730	Suction Conduit Floor + Roof
055-0	5/8"φ	5'-0"	do	10	5.2	52	do
054-0	5/8"φ	4'-0"	do	18	4.2	76	do
Reinforcement, Center Pier, Gravity Conduit (Next to Pump House)							
0518-9UA	5/8"φ	18'-9"		6	19.6	118	Hor. in Upstream Nose
Type UA							
056-0	5/8"φ	6'-0"	Straight	12	6.3	76	Hor. Past Casting
0526-0	5/8"φ	26'-0"	do	6	27.1	163	Hor. Downstream
0529-3AA	5/8"φ	29'-3"		6	30.5	183	do
Type AA							
0811-9AB	1"φ	11'-9"		76	31.4	2386	Vertical in Nose
Type AB							
Total Weight on This Sheet = 74,749 pounds							

NOTES
All reinforcing steel to be paid for under Item No. 11.
All bends to be made around a pin with a diameter of 8 times the bar unless otherwise noted.

12-31-45	As built revisions				
DATE	REVISION	REV. BY	CK. BY	AP. BY	

CONNECTICUT RIVER FLOOD CONTROL			
NORTH MEADOWS PUMPING STATION			
FISCAL YEAR 1939 SECTION			
STEEL REINFORCEMENT NO. 5			
HARTFORD, CONN.			
CONNECTICUT RIVER		CONNECTICUT	
IN 62 SHEETS	SCALE		SHEET NO. 40
NOT TO SCALE			
U. S. ENGINEER OFFICE, PROVIDENCE, R. I., FEB. 1939			
SUBMITTED	APPROVAL	RECOMMENDED	APPROVED
Head B. Williams	J. D. Burns	M. Bradley	
SENIOR ENGINEER	PRINCIPAL ENGINEER	LT. COL. CORPS OF ENGINEERS	
HEAD, DESIGN SECTION	CHIEF, F.C. ENGINEERING DIV.	DISTRICT ENGINEER	
DESIGNED	DRAWN BY	TRACED BY	FILE NO.
E. M. Vain	J. P. K.	J. S. M.	CT. 4-1288
ASSOC. ENGINEER	CHECKED BY	A. H. B.	