

REINFORCEMENT SCHEDULE

MARK	SIZE	LENGTH	BENDING DIAGRAM	NO. REQD.	WT. EACH	TOTAL WEIGHT	LOCATION OF BAR
North Wing Wall at Intake End							
0523-6	1" ϕ	23'-6"	Straight	39	24.5	956	Longitudinal in footing
0518-3	1" ϕ	18'-3"	do	3	19.0	57	Vertical in Stem
0518-0	1" ϕ	18'-0"	do	1	18.8	19	do
0517-9	1" ϕ	17'-9"	do	8	18.5	148	Longitudinal in footing
0517-6	1" ϕ	17'-6"	do	3	18.3	55	Vertical in Stem
0517-0	1" ϕ	17'-0"	do	1	17.7	18	do
0516-6	1" ϕ	16'-6"	do	1	17.2	17	do
0516-0	1" ϕ	16'-0"	do	1	16.7	17	do
0515-6	1" ϕ	15'-6"	do	1	16.2	16	do
0515-3	1" ϕ	15'-3"	do	2	15.9	32	Horizontal in Stem
0515-0	1" ϕ	15'-0"	do	1	15.6	16	Vertical in Stem
0514-6	1" ϕ	14'-6"	do	1	15.1	15	do
0514-0	1" ϕ	14'-0"	do	1	14.6	15	do
0513-9	1" ϕ	13'-9"	do	4	14.3	57	do
0513-6	1" ϕ	13'-6"	do	1	14.1	14	do
0512-3	1" ϕ	12'-3"	do	2	12.8	26	Horizontal in Stem
0511-6	1" ϕ	11'-6"	do	1	12.0	12	Longitudinal in footing
059-3	1" ϕ	9'-3"	do	2	9.6	19	Horizontal in Stem
057-3	1" ϕ	7'-3"	do	10	7.6	76	Longitudinal in footing
056-3	1" ϕ	6'-3"	do	2	6.5	13	Horizontal in Stem
054-0	1" ϕ	4'-0"	do	2	4.2	8	Longitudinal in footing
053-9	1" ϕ	3'-9"	do	2	3.9	8	Horizontal in Stem
0813-0AB	1" ϕ	13'-0"	Type AB	25	34.7	868	Vertical in Stem
0814-0BA	1" ϕ	14'-0"	Type BA	7	37.4	262	do
0813-9BA	1" ϕ	13'-9"	a = 8'-6" b = 5'-6"	2	36.7	73	do
0813-6BA	1" ϕ	13'-6"	a = 8'-0" b = 5'-6"	2	36.0	72	do
0813-3BA	1" ϕ	13'-3"	a = 7'-9" b = 5'-6"	2	35.4	71	do
0813-0BA	1" ϕ	13'-0"	a = 7'-6" b = 5'-6"	3	34.7	104	do
0812-9BA	1" ϕ	12'-9"	a = 7'-3" b = 5'-6"	2	34.0	68	do
0812-6BA	1" ϕ	12'-6"	a = 7'-0" b = 5'-6"	2	33.4	67	do
0812-3BA	1" ϕ	12'-3"	a = 6'-9" b = 5'-6"	2	32.7	65	do
0812-0BA	1" ϕ	12'-0"	a = 6'-6" b = 5'-6"	2	32.0	64	do
0811-9BA	1" ϕ	11'-9"	a = 6'-3" b = 5'-6"	1	31.4	31	do
0821-9BA	1" ϕ	21'-9"	a = 15'-5" b = 6'-4"	9	58.1	523	do
0818-3	1" ϕ	18'-3"	Straight	6	48.7	292	do
0818-0	1" ϕ	18'-0"	do	1	48.1	48	do
0817-9	1" ϕ	17'-9"	do	1	47.4	47	do
0817-6	1" ϕ	17'-6"	do	1	46.7	47	do
0817-3	1" ϕ	17'-3"	do	1	46.1	46	do
0817-0	1" ϕ	17'-0"	do	1	45.4	45	do
0816-9	1" ϕ	16'-9"	do	1	44.7	45	do
0816-6	1" ϕ	16'-6"	do	1	44.1	44	do
0816-3	1" ϕ	16'-3"	do	1	43.4	43	do
0816-0	1" ϕ	16'-0"	do	1	42.7	43	do
0815-6NA	1" ϕ	15'-6"	a = 6'-10" b = 2'-2" c = 6'-6"	6	41.4	248	Transverse in footing
0814-3NA	1" ϕ	14'-3"	a = 6'-1" b = 2'-0" c = 6'-2"	4	38.0	152	do
0813-9NA	1" ϕ	13'-9"	a = 5'-10" b = 1'-10" c = 6'-1"	4	36.7	147	do
0812-6NA	1" ϕ	12'-6"	a = 5'-4" b = 1'-8" c = 5'-6"	4	33.4	134	do
0811-3NA	1" ϕ	11'-3"	a = 5'-1" b = 1'-6" c = 4'-11"	4	30.0	120	do
0810-9NA	1" ϕ	10'-9"	a = 4'-7" b = 1'-6" c = 4'-8"	9	28.7	258	do

MARK	SIZE	LENGTH	BENDING DIAGRAM	NO. REQD.	WT. EACH	TOTAL WEIGHT	LOCATION OF BAR
Gravity Flow Conduit							
0812-0	1" ϕ	12'-0"	Straight	18	32.0	576	Vertical in walls
0810-6	1" ϕ	10'-6"	do	230	28.0	6440	do
089-6	1" ϕ	9'-6"	do	246	25.4	6248	do
0634-6	3/4" ϕ	34'-6"	do	348	51.8	18026	Longitudinal
067-6	3/4" ϕ	7'-6"	do	232	11.3	2622	do
066-0	3/4" ϕ	6'-0"	do	904	9.0	8136	Transverse in haunches
0529-6	3/4" ϕ	29'-6"	do	348	30.8	10718	Longitudinal
0527-0	3/4" ϕ	27'-0"	do	56	28.2	1579	do
0521-0	3/4" ϕ	21'-0"	do	208	21.9	4555	do
0519-3	3/4" ϕ	19'-3"	do	60	20.1	1206	do
0517-0	3/4" ϕ	17'-0"	do	116	17.7	2053	do
055-0	3/4" ϕ	5'-0"	do	48	5.2	250	do
821-9AB	1" ϕ	21'-9"	a = 18'-8"	76	74.0	5624	Transverse
811-9AB	1" ϕ	11'-9"	a = 8'-8"	76	40.0	3040	Vertical
0821-9AB	1" ϕ	21'-9"	a = 18'-8"	1880	58.1	109228	Transverse
0812-9AB	1" ϕ	12'-9"	a = 9'-8"	230	34.0	7820	Vertical
0811-9AB	1" ϕ	11'-9"	a = 8'-8"	262	31.4	8227	do
0817-3BA	1" ϕ	17'-3"	a = 3'-9" b = 13'-6"	30	46.1	1383	do
0827-0CA	1" ϕ	27'-0"	a = 19'-6" b = 3'-9"	13	72.1	937	Transverse top slab
0821-0CA	1" ϕ	21'-0"	a = 9'-6" b = 5'-9"	150	56.1	8415	Vertical
0818-0CA	1" ϕ	18'-0"	a = 11'-6" b = 3'-9"	460	48.1	22126	do
0817-0CA	1" ϕ	17'-0"	a = 9'-6" b = 3'-9"	366	45.4	16616	do
0512-3UA	3/4" ϕ	12'-3"	Type UA	6	12.8	77	Horizontal in center pier
056-6UA	3/4" ϕ	6'-6"	Type UA	6	6.8	41	do
Seep Rings							
0825-6	1" ϕ	25'-6"	Straight	18	68.1	1226	Horizontal
0823-6	1" ϕ	23'-6"	do	3	62.7	188	do
055-0	3/4" ϕ	5'-0"	do	51	5.2	265	Transverse
055-3	3/4" ϕ	5'-3"	do	51	5.5	281	do
054-6	3/4" ϕ	4'-6"	do	15	4.7	71	do
054-0	3/4" ϕ	4'-0"	do	8	4.2	34	do
053-6	3/4" ϕ	3'-6"	do	14	3.7	52	do
053-0	3/4" ϕ	3'-0"	do	14	3.1	43	do
052-6	3/4" ϕ	2'-6"	do	14	2.6	36	do
052-0	3/4" ϕ	2'-0"	do	14	2.1	29	do
051-6	3/4" ϕ	1'-6"	do	14	1.6	22	do
051-0	3/4" ϕ	1'-0"	do	93	1.0	93	do
0820-0BA	1" ϕ	20'-0"	a = 13'-6" b = 6'-6"	8	53.4	427	Outside face
0815-6	1" ϕ	15'-6"	Type BA	7	37.4	262	do

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 diameter of the bar unless otherwise noted.

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Seep Rings							
0814-9BA	1" ϕ	14'-9"	a = 4'-0" b = 10'-9"	8	39.4	315	Outside face
0819-6EA	1" ϕ	19'-6"	Type EA	30	52.1	1563	do
0820-6EA	1" ϕ	20'-6"	Type EA	30	54.7	1641	do
0821-6FA	1" ϕ	21'-6"	Type FA	60	57.4	3444	do
North Wing Wall at Intake End (continued)							
0815-9	1" ϕ	15'-9"	Straight	1	42.1	42	Vertical in stem
0815-6	1" ϕ	15'-6"	do	1	41.4	41	do
0815-3	1" ϕ	15'-3"	do	1	40.7	41	do
0815-0	1" ϕ	15'-0"	do	1	40.1	40	do
0814-9	1" ϕ	14'-9"	do	1	39.4	39	do
0814-6	1" ϕ	14'-6"	do	1	38.7	39	do
0814-3	1" ϕ	14'-3"	do	1	38.0	38	do
0814-0	1" ϕ	14'-0"	do	1	37.4	37	do
0813-9	1" ϕ	13'-9"	do	1	36.7	37	do
0813-6	1" ϕ	13'-6"	do	1	36.0	36	do
0511-0BA	3/4" ϕ	11'-0"	a = 6'-6" b = 4'-6"	7	11.5	81	Footing and stem
0511-9BA	3/4" ϕ	11'-9"	a = 7'-3" b = 4'-6"	4	12.3	49	do
0512-6BA	3/4" ϕ	12'-6"	a = 8'-0" b = 4'-6"	5	13.0	65	do
058-6MB	3/4" ϕ	8'-6"	Type MB	24	8.9	214	Footing Key
Expansion Joint Collars							
0821-6BA	1" ϕ	21'-6"	a = 8'-6" b = 13'-0"	128	57.4	7347	Conduit collars
0819-6BA	1" ϕ	19'-6"	a = 7'-6" b = 12'-0"	128	52.1	6669	do
063-0LA	3/4" ϕ	3'-0"	do	24	4.5	108	do
062-6	3/4" ϕ	2'-6"	Straight	296	3.8	1125	do

Total weight on this sheet = 277,362 pounds.

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. 7			
HARTFORD, CONN.			
CONNECTICUT RIVER		CONNECTICUT	
IN 62 SHEETS		SHEET NO. 42	
SCALE NOT TO SCALE			
U.S. ENGINEER OFFICE, PROVIDENCE, R.I., FEB. 1939			
SUBMITTED:	APPROVAL:	RECOMMENDED:	APPROVED:
Head, Design Section	Principal Engineer	Chief, E. & C. Engineering Div.	LT. COL., CORPS OF ENGINEERS
DESIGNED:	DRAWN BY:	TRACED BY:	FILE NO. CT-4-1290
Assoc. Engineer	H. J. P.	A. J. H. & D. B. C.	