(4)

Weight	No. of Pcs.	Erecting List.	Mark	Box	Remarks.
		Windows for Cylinder			
114	2	Sill Castings	I & V		Fig 3
250	4	Jambs	II, III, VI, VII		Fig 3
40	2	Lintels	IV & VIII		Fig 3
5	?	½ rough bolts for above together	—		IN PLACE
	4	Brass Pulleys & Sash Cord	—	6	
70	2	Small Wooden Sashes } with glass in place	—	11	
80	2	Large Wooden Sashes }	—	11	
2	—	Wrot Stops, brass screws, weights brass lifts & sash locks }	—		
		Landings of M.R. Floor			
120	1	Lower Landing or Foot Plate consisting of 5 castings	I, III, ... V		Fig 4.
	?	½" bolts & do together	—		IN PLACE
2	1	Landing head of 1st flight of stairs 2 castings	I & II		Fig 5.
	?	½" bolts for do together & to Brackets	—	8	
	4	Brackets supporting above landing	—		
	4	½ bolts for Brackets to Cylinder	—		IN PLATE
137	1	Watch Room Floor of 8 castings	I, II, ... VIII		Fig 6.
7	30	½" Countersunk bolts, watch room floor to gallery plate	—		
8	36	½" rough bolts watch room floor to cylinder and to end bolter	—	8	
		Cylinder Stairs			
1025	49	Outer carriers 1st flight	I, II, ... XLIX		Fig 3. Mark on outside of Carrier
1350	48	Treads " 1st flight	I, II, ... XLVIII		Fig 3. Mark on inside of Carrier
25	?	⅝ Rough bolts, Treads to Carriers } for 1st + 2nd flights		10	
15	?	½ rough tap bolts, Treads to Newel }		13	

11th Dist. with Richmond Ironworks' Letter of 25 Apl 01.
10 D. Files 4 May.

(5)

Weight	No. of Pcs.	Erecting List	Mark	Box	Remarks
22	22	Outer Carriers, 2nd flight	I, II, ... XXII		Fig 3. Mark on inside of Carrier
21	21	Treads " 2nd flight	I, II, ... XXI		Fig 3. Mark on under side of Tread
162	9	Brackets for supporting stairs	I, II, ... IX		Fig 3.
6	18	½ Bolts, Brackets to Cylinder	—		
250	1	Newel Post, in 4 pieces	I, II, III, IV		Fig 2.
128	7	Sections of Handrailing in cylinder + screws for do together	I, II, etc		Fig 3. 2 cyls. Marked with ... Any cast in excess of full sets forms portion of stops.
5	5	Easements for start + finish of rails	I, II, III, etc. Distinguished at bottom of steps		
15	1	Brackets for supporting rails		12	Fig 3.
5	1	Handrail on M.R. floor, complete with 2 posts, brass nuts, bolt (countersunk) &c	—	9	Fig 3
17	?			10	
		Lantern Floor + Gallery			
3375	1	Floor in 4 castings	I, II, III, IV		Fig 7.
5	36	½ rough bolts, Floor to Parapet	—		
45	1	Trap Door complete with brass hinges, screws, + wrot handle	—	2	Fig 7.
16	22	⅝ rough bolts for floor together	—		
	1	Column to support Lantern floor	—		
	4	⅞ T&G bolts, Column to M.R. Floor	—		
	1	Ladder, M.R. Floor to Lantern Floor	—		
2	2	½ rough bolts, Ladder to Lantern Floor	—		IN PLACE
4	4	Sections of Lantern Gallery Railing, 12 pickets per sec, upper pieces with mould ing of cornice painted on	I, II, ... VIII		Fig 7.
		Lantern			
8	8	Parapet Castings	I, II, ... VIII		Fig 9
32	32	⅞ Rough Bolts, do together			
1	1	Door in 2 pcs, Hinges screws, Latch + handle + Sheet Tinning for do		11	
		Iron ... for do		7	

11-15-24

(6)

Weight	No. of Pcs	Erecting List.	Mark	Box	Remarks
13	4	Brass Disks, complete for Ventilators	II, III, VI, VII	3	Fig 9. Marked for parapet plate to which they belong
16	32	⅞ Rough Bolts, parapet to lantern floor	—		
256	8	Lantern Posts	I, II, ... VIII	4	Fig 9.
12	32	⅞ Turned Bolts, Posts to Parapet + Soffit	—	4	
304	8	Soffit Castings	I, II, ...	8	Fig 9
4	8	⅞ Rough Bolts, Soffit together	—	8	
21	32	Brass Glass Stops, for Posts, Soffit + Parapet	I, 2, ... 8	4	Fig 9. Marked for post, soffit + parapet plate & which they belong
2	128	Brass Roundheaded Screws for Stops	—		
15	8	Roof Castings	I, II, ... VIII		Fig 9
18	64	½ Rough Bolts do together + soffit	—		
1	1	Moulding	—		
2	8	½" Rough Bolts, moulding to roof	—	11	
136	1	Ventilator Ball	—		
	1	Brass Pinnacle for ball	—		
40	8	Sheets ⅛ Zinc lining for roof	I, II, ... VIII	7	Fig 9. Marked like the roof plates to which they belong
13	8	1¼ x 3/32 Hoop Iron Battens, in roof	I, 2, ... 8	3	Fig 9. Marked like Lantern post, Corner Plate
1	56	½ Brass Screws for do	—	4	
45	8	Brass Pinching Strips, zinc lining to Soffit	I, 2, ... 8		Fig 9. Marked like soffit to which they belong
1	40	½ Brass Screws for do	—		IN PLACE
15	1	Rosette Casting, zinc lining to roof	—	7	
	8	Brass Curtain Hooks	—	4	
24	8	Sheets ⅛ sheet iron lining, parapet with beads & screws at top	I, II, ... VIII	5	Fig 9.
1	8	⅛ x 1½ Pinching Strips for do	I, 2, ... 8	12	Fig 9. Marked like post above them
1	48	½ Roundhead Screws for do	—	4	
	5	x Pinching Strips around the door and below window sill + screws for do	—	5	
183	8	Pcs of Washboard	I, II, ... VIII	7	Marked like parapet plates
2	40	½" Countersunk Stormbolts for do			

Size of Lantern Floor ... Thick
Corner Piece ⅛ Clearance
Storm Post

Has not been used for any of these Elements or items

Erecting List of Metalwork for Duluth Harbor, Minn., Rear Range Tower.

(1)

Weight	No. of Pcs.	Erecting List	Mark	Box	Remarks.
		Foundation Disks.			
2320	4	Foundation Disks	I, II, III, IV		Fig 1.
		Columns.			
2815	4	6½" Columns, 1st Series	I, II, III, IV		Fig 1.
2170	4	5½" Columns, 2nd Series	I, II, III, IV		Fig 1.
1660	4	5" Columns, 3rd Series	I, II, III, IV		Fig 1.
		Sockets.			
1320	4	Sockets, Top of 1st Series	I, II, III, IV		Fig 1.
972	4	Sockets, Top of 2nd Series	I, II, III, IV		Fig 1.
		Struts			
1765	4	3" Perimeter Struts, Bottom 1st Series	I, II, III, IV		Fig 1. Mark on one end near disk
	4	3" Radial Struts " " "	I, II, III, IV		Fig 1 & 3.
560	16	Keys for do	I, II, III, IV; III, V & VI		Fig 1. 2 Marked like their struts. Fig 3. 4 Marked like their bottom bolt.
1575	4	4⅜ Per. Struts, Top of 1st Series	I, II, III, IV		Fig 1. Mark on one end near socket
2015	4	4⅜ Rad. Struts, Top of 1st Series	I, II, III, IV		Fig 1 & 3.
588	4	3½ Per. Struts, Top of 2nd Series	I, II, III, IV		Fig 1.
540	4	3½ Rad. Struts, Top of 2nd Series	I, II, III, IV		Fig 1 & 3.
112	56	⅞" Rough Bolts for cast iron struts together	—		In place.
		Tension Rods			
1015	8	1⅛" Tension Rods, 1st Series	—		Fig 1.
900	8	1⅛" Tension Rods, 2nd Series	—		Fig 1.
841	8	1¼" Tension Rods, 3rd Series	—		Fig 1.
		Pins			
24	8	⅞ x 5¾ Pins, in Foundation Disks	—		Fig 1.
96	24	1⅛ x 5⅞ Pins, in 1st & 2nd Series Sockets	—		Fig 1.
243	16	1¼ x 4⅞ Pins, in 2nd Series Sockets & Arch. Cor. Castings	—		Fig 1.
11	48	½" Stiff Pins for above			

(2)

Weight	No. of Pcs	Erecting List	Mark	Box	Remarks
		Architrave			
2880	4	Side Castings	I, II, III, IV		Fig 1. Mark on one end near corner casting
1080	4	Corner Castings with Socket	I, II, III, IV		Fig 1.
144	24	1" Turned Bolts, above together	—		
		Gallery Brackets			
348	4	Brackets, Large	I, II, III, IV		Fig 1. Marked like their side Castings
132	4	Brackets, Small	I, II, III, IV		Fig 1. Marked like their corner Castings
18	24	¾" Bolts, above to Architrave	—	8	
		Main Gallery & Railing			
3491	16	Gallery Floor Plates	I, II, ... XVI		Fig 6.
22	88	½ rough bolts for do together & to Architrave		5	
550	8	Sections Gallery Railing	III, II–III, ... VIII–I		Fig 6.
216	8	Pcs of Top Rail,	I–II, II–III, ... VIII–I		Fig 6.
134	8	Gallery Railing Posts, complete, with nuts, washers, sleeves, &c	I, II, ... VIII		Fig 6.
		Parapet & Door			
1530	18	Parapet Wall Plates (large)	V, VI, ... XXVIII		Fig 8
520	4	Parapet Wall Plates (small)	XVI, XXI, XXIII, XXVIII		Fig 8.
40	164	½" rough bolts, for do together & to gallery	—		
424	1	Parapet Window Plate (2 pcs)	X + XXII		Fig 8
	24	½ rough bolts for do	—		
1	1	Wooden Sash with glass &c, screws for do	—		
23	1	Sill, Parapet Door	IV	10	Fig 8
134	2	Jambs, " "	I & II	10	Fig 8
714	1	Lintel, " "	III		Fig 8
2	20	½" countersunk bolts } Parapet Door	—		
	4	½" Rough bolts }	—		
1	1	Rubber packing for door	—		
—	—	Brass Screws for packing	—		

11-10-25

(3)

Weight	No. of Pcs	Erecting List	Mark	Box	Remarks
125	2	Parapet Doors, complete with hinges, lock, storm hooks + eyes,	—	10	
		Stair Cylinder			
1360	8	Foundation Bell Castings	I, II, ... VIII		Fig. 3
2	8	⅞" rough bolts } do together	—	3	
20	16	1" Rough bolts }			
230	8	Bell Castings, top of 1st Series	IX, X, ... XVI		Fig 3.
3	16	¾" rough bolts for do	—	3	
910	8	Bell Casting, top of 2nd Series	XVII, XVIII, ... XXIV		Fig. 3
	16	¾" rough bolts for do	—	8	
1780	50	Stair Cylinder Plates, Large,	I, II, ... LIII,		Fig. 3.
	2	Stair Cylinder Plates, below Windows,	XXII & XXXVII		Fig. 3.
28	1	Stair Cylinder Plate, above Main Door,	VI		Fig. 3.
12	420	½ rough bolts for plates together, to Bell Carriers & Wall anchor ferr	—	8	
280	2	8" Steel Beams, supporting Landing at foot of stairs and newel	—		
30	2	½" Bolts & 2 Cast iron Separators for Steel Beams	—		
		Entrance Door			
180	1	Sill Casting	—		Fig. 3
340	2	Jambs	—		Fig. 3
60	1	Lintel,	—		Fig. 3
6	24	½" rough bolts } for do	—	8	
	4	½" countersunk bolts }	—		
14	2	Sill Carriers	—	8	
	2	½" countersunk bolts for Carriers	—		
1005	2	Doors for main entrance, complete with hinges, lock, yale lock + extra keys.	—	3	