

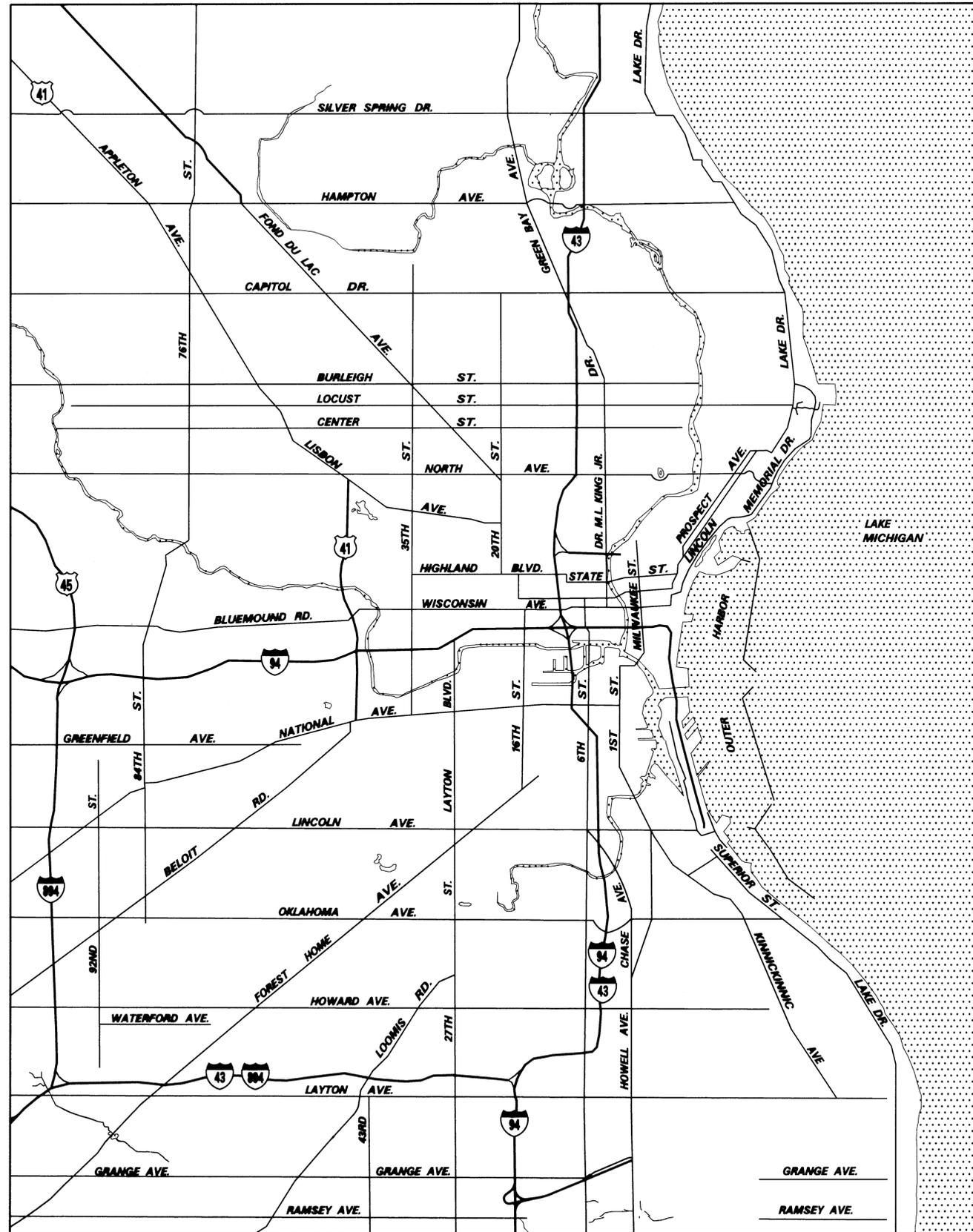
Milwaukee Water Works

ELEVATED WATER STORAGE TANK

GT-12 COATING AND APPURTENANCES MODIFICATIONS

DRAWING INDEX

<u>DRAWING NO.</u>	<u>TITLE</u>
CONTRACT DRAWINGS	
GT-12-01	LOCATION MAP - DRAWING INDEX
GT-12-02	SITE PLAN
GT-12-03	TANK ELEVATION, SECTION AND PLAN
GT-12-04	GATE HOUSE
GT-12-05	DETAILS
GT-12-06	DETAILS
GT-12-07	DETAILS
GT-12-08	ANTENNA MOUNTS
GT-12-09	ANTENNA MOUNTS
GT-12-10	ANTENNA MOUNTS



MILWAUKEE, WISCONSIN

LOCATION MAP



Milwaukee Water Works Water Engineering
Department of Public Works

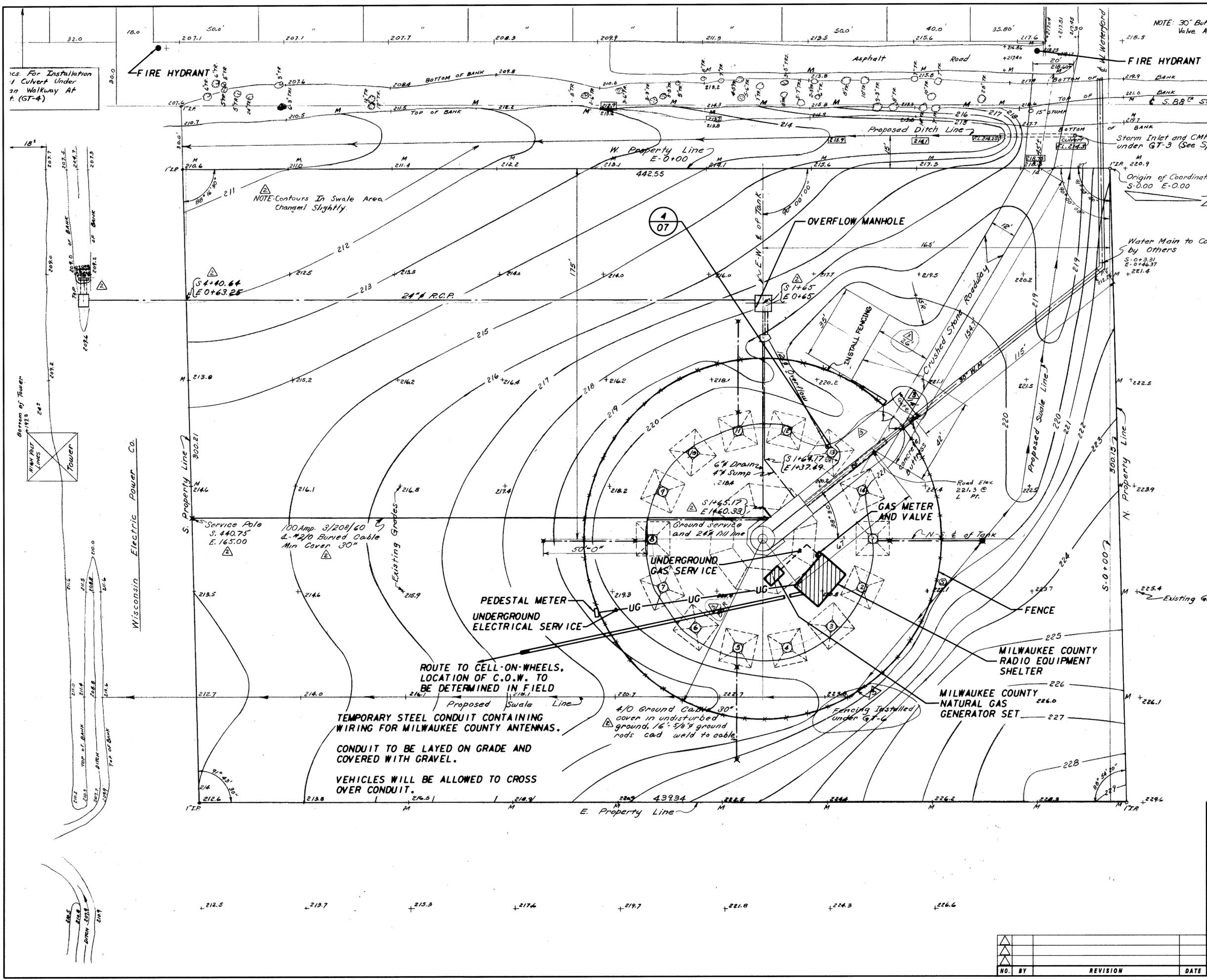
ELEVATED WATER STORAGE TANK
GT-12 COATING AND APPURTENANCES
MODIFICATIONS

LOCATION MAP & DRAWING INDEX

DESIGNED BY	M.A.G.	APPROVED	DATE
DRAWN BY	L.R.	<i>[Signature]</i>	10/27/10
CHECKED BY	A.J.S.	<i>[Signature]</i>	PLANTS PROJECT ENGINEER
DATE	10-22-10	<i>[Signature]</i>	10/27/10
SCALE	AS SHOWN	<i>[Signature]</i>	CHIEF DESIGN ENGINEER
WORK ORDER	WT489078100	<i>[Signature]</i>	10/27/10
OFFICIAL NOTICE	142-2010	SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	

NO.	BY	REVISION	DATE

DRAWING NO. **GT-12-01**



NOTE: 30" Butterfly Shutoff Valve At S. 92nd St.

ics. For Installation of Culvert Under in Walkway At (GT-4)

FIRE HYDRANT

FIRE HYDRANT

NOTE: Contours In Swale Area Changed Slightly.

Storm Inlet and CMP Culvert under GT-3 (See Specs.)

Origin of Coordinates S-0.00 E-0.00

Water Main to Concrete Buttress by Others S-0+3.31 E-0+46.37

Wisconsin Electric Power Co.

Service Pole S. 440.75 E. 165.00
100 Amp. 3/208/60
L-#2/0 Stranded Cable
Min Cover 30"

ROUTE TO CELL-ON-WHEELS, LOCATION OF C.O.W. TO BE DETERMINED IN FIELD

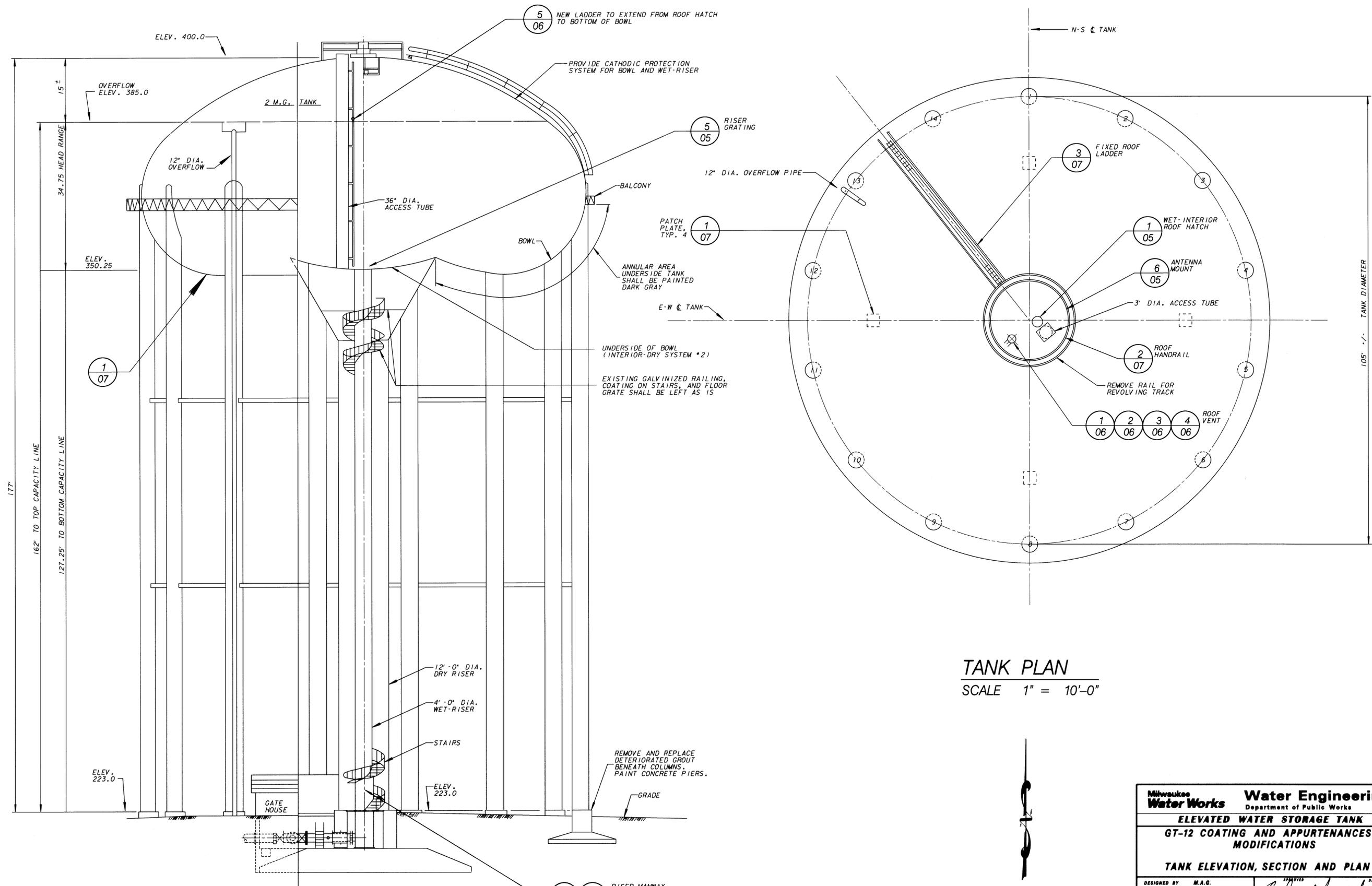
TEMPORARY STEEL CONDUIT CONTAINING WIRING FOR MILWAUKEE COUNTY ANTENNAS.

CONDUIT TO BE LAYED ON GRADE AND COVERED WITH GRAVEL.

VEHICLES WILL BE ALLOWED TO CROSS OVER CONDUIT.

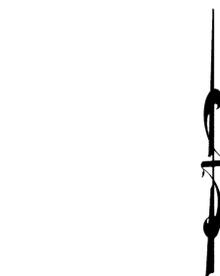
4/0 Ground Cable 30" cover in undisturbed ground, 16" 5/8" ground rods cad weld to cable.

Milwaukee Water Works		Water Engineering	
Department of Public Works		Department of Public Works	
ELEVATED WATER STORAGE TANK			
GT-12 COATING AND APPURTENANCES MODIFICATIONS			
SITE PLAN			
DESIGNED BY	M.A.G.	APPROVED	<i>[Signature]</i> 10/27/10
DRAWN BY	L.R.	CHECKED BY	A.J.S. 10/27/10
DATE	10-22-10	SCALE	AS SHOWN
WORK ORDER	WT48876100	OFFICIAL NOTICE	142-2010
NO.	BY	REVISION	DATE
FILE NO.	DRAWING NO. GT-12-02		



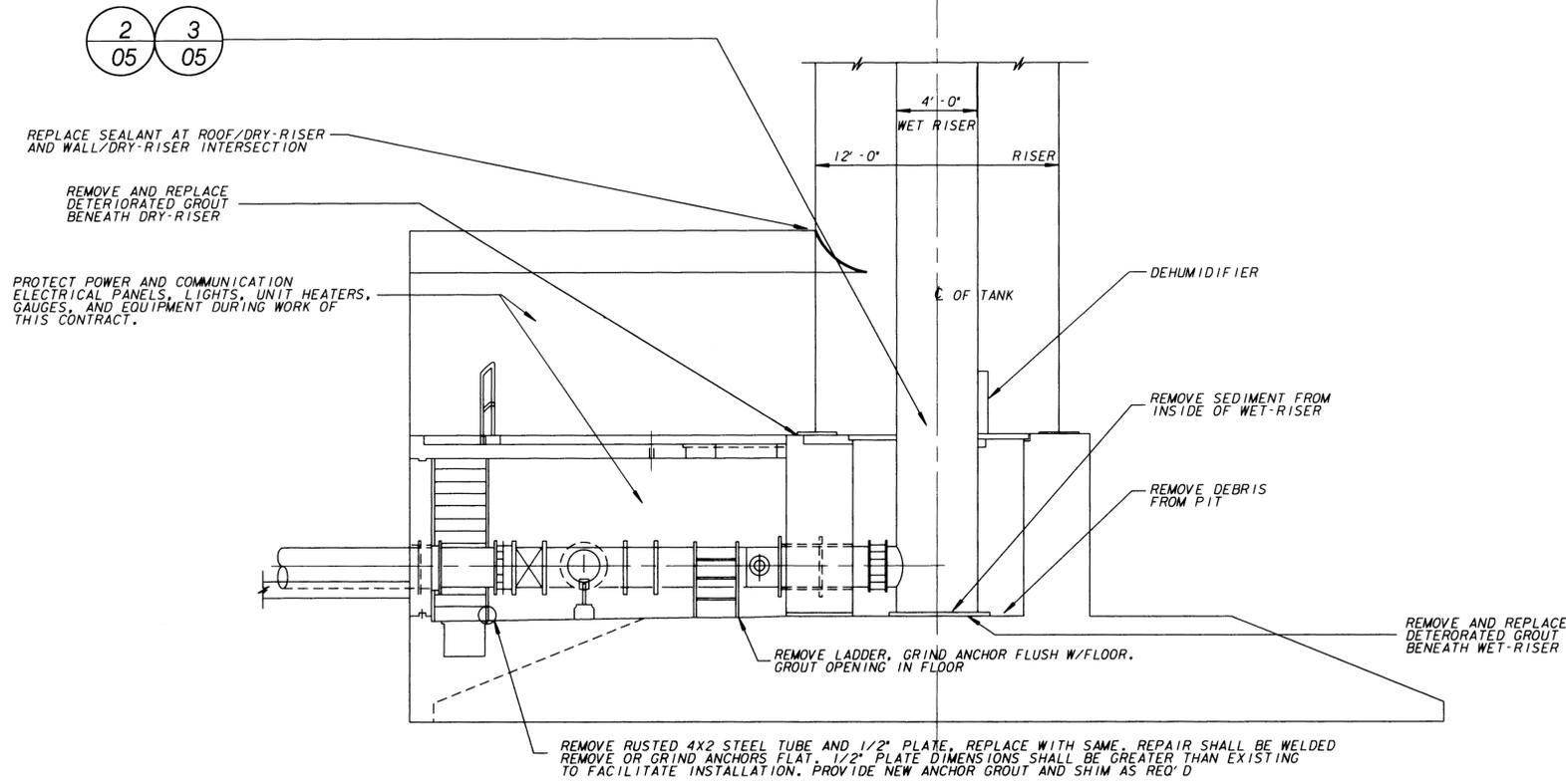
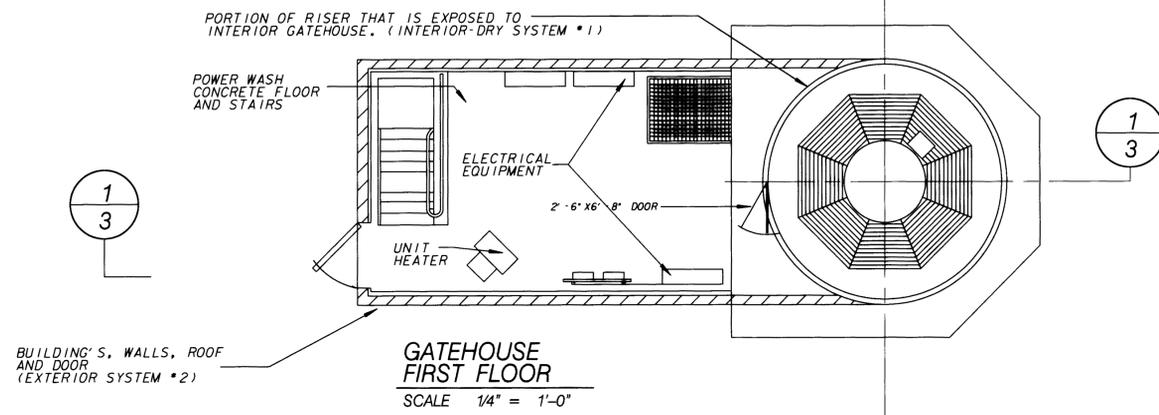
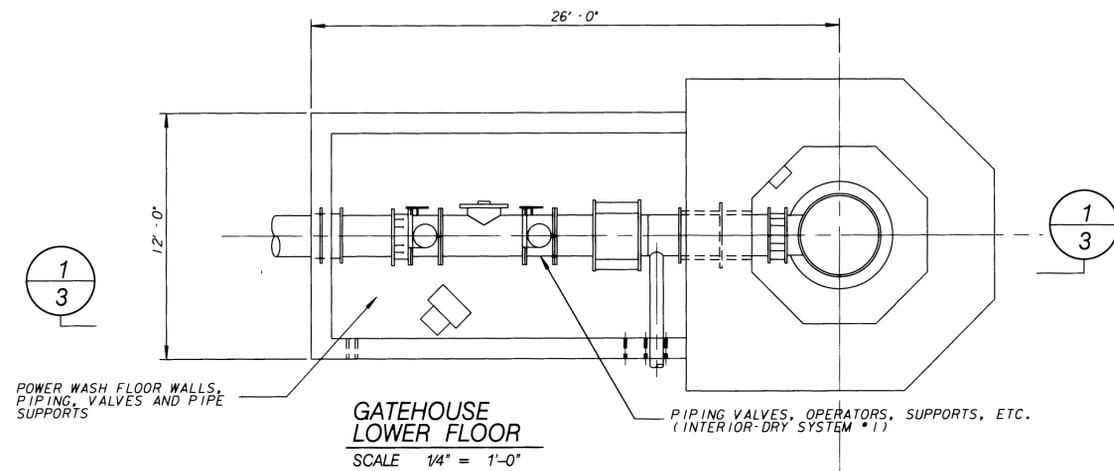
TANK ELEVATION & SECTION
SCALE 1" = 10'-0"

TANK PLAN
SCALE 1" = 10'-0"



Milwaukee Water Works		Water Engineering	
Department of Public Works		Department of Public Works	
ELEVATED WATER STORAGE TANK			
GT-12 COATING AND APPURTENANCES MODIFICATIONS			
TANK ELEVATION, SECTION AND PLAN			
DESIGNED BY	M.A.G.	APPROVED	DATE
DRAWN BY	L.R.	<i>Anthony J. Pappalardo</i>	10/27/10
CHECKED BY	A.J.S.	<i>Paul G. Bond</i>	10/27/10
DATE	10-22-10	OFFICIAL NOTICE	162-2010
SCALE	AS SHOWN	FILE NO.	
WORK ORDER	WT468076100	DRAWING NO.	GT-12-03

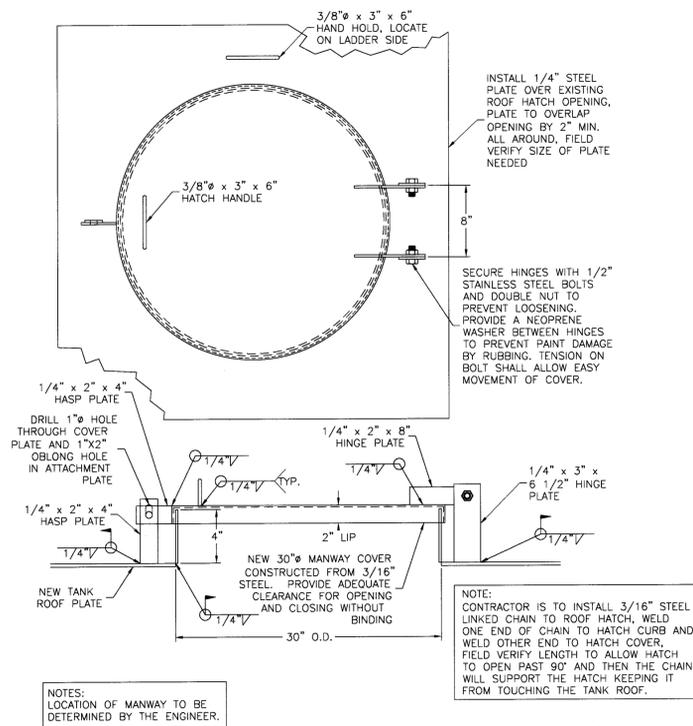
NO.	BY	REVISION	DATE	FILE NO.



Milwaukee Water Works		Water Engineering	
Department of Public Works		Department of Public Works	
ELEVATED WATER STORAGE TANK			
GT-12 COATING AND APPURTENANCES MODIFICATIONS			
GATE HOUSE			
DESIGNED BY	M.A.G.	DATE	10/27/10
DRAWN BY	L.R.	PLANTS MODELER ENGINEER	
CHECKED BY	A.J.S.	DATE	10/27/10
SCALE	AS SHOWN	SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
WORK ORDER	WT488078100	OFFICIAL NOTICE	142-2010
NO.	BY	REVISION	DATE

NO.	BY	REVISION	DATE

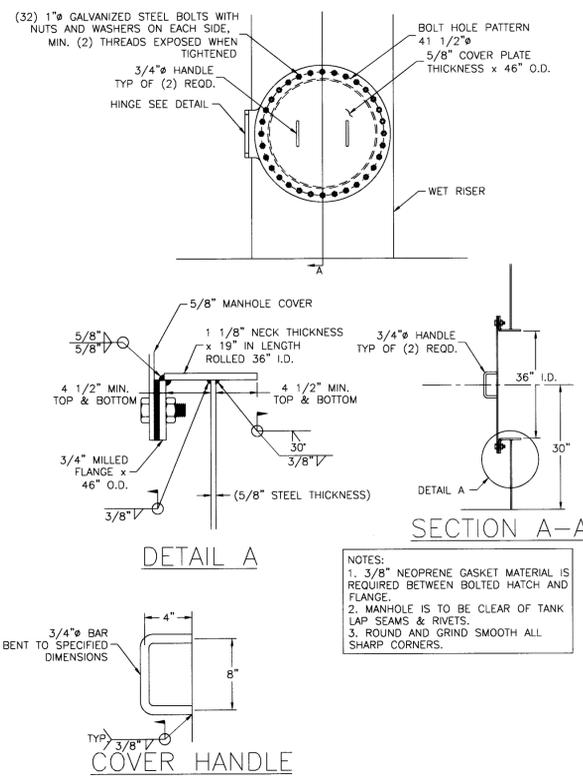
DRAWING NO. **GT-12-04**



WET INTERIOR ROOF HATCH

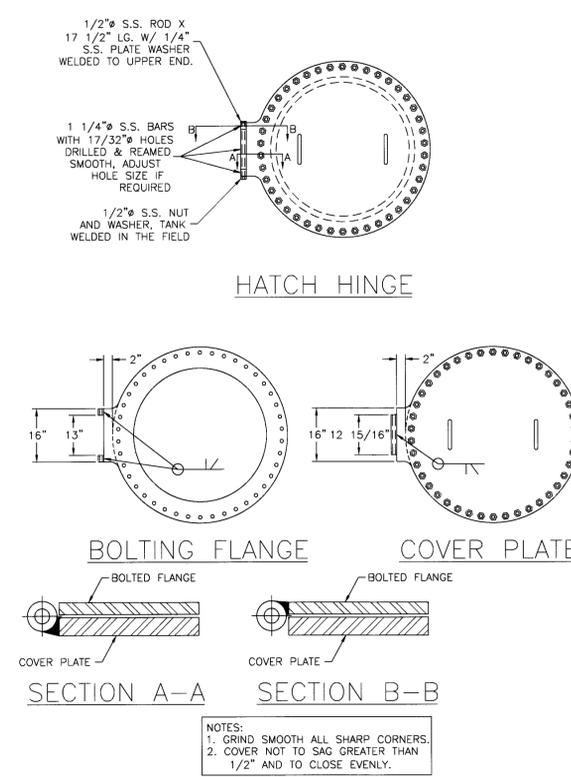
WET INTERIOR ROOF HATCH
NOT TO SCALE

1
-



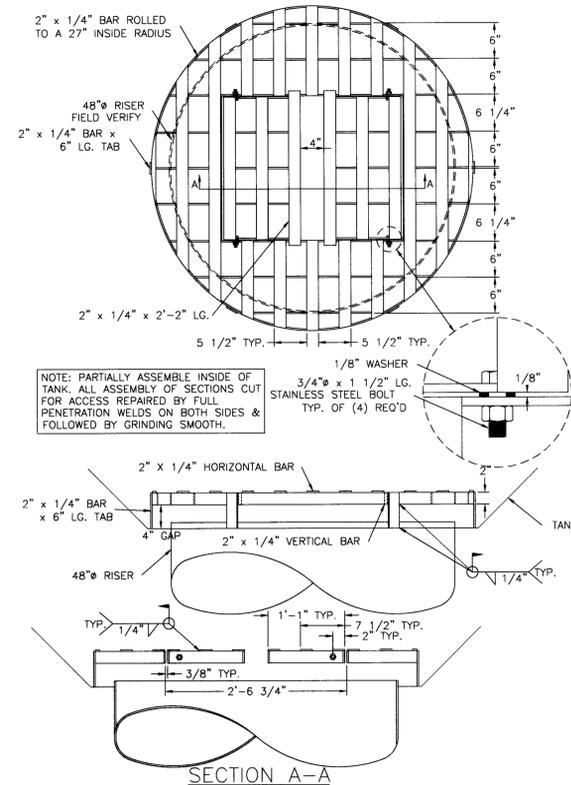
RISER MANWAY HATCH
NOT TO SCALE

2
-



MANWAY HATCH HINGE
NOT TO SCALE

3
-



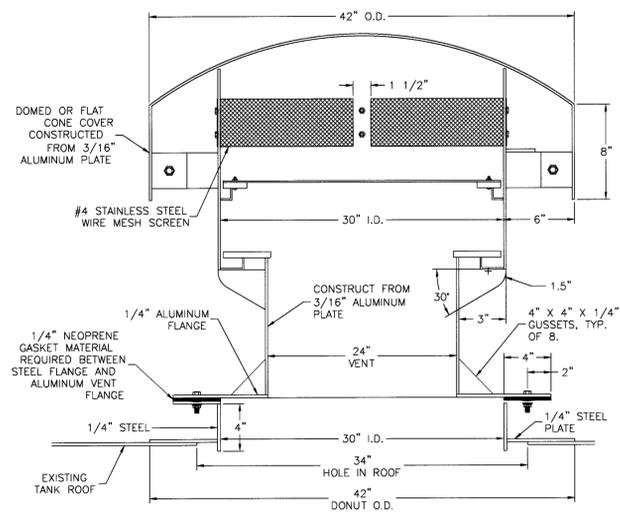
48" RISER GRATING
NOT TO SCALE

5
-

NO.	BY	REVISION	DATE	FILE NO.

DETAILS PROVIDED BY MEAD & HUNT/DIXON ENGINEERING, INC

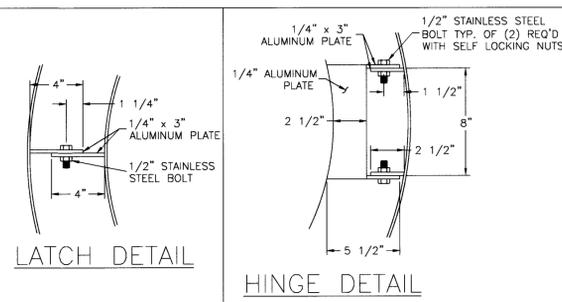
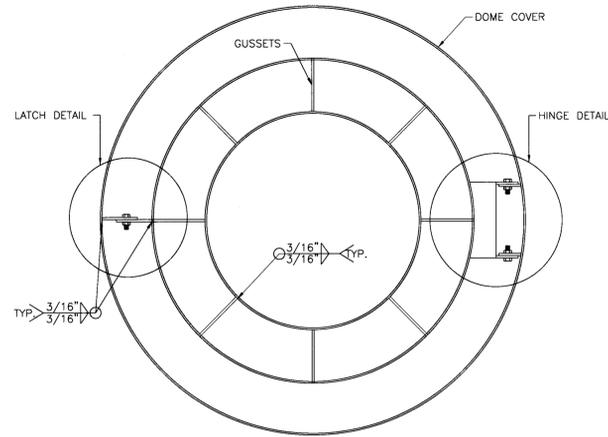
Milwaukee Water Works		Water Engineering Department of Public Works	
ELEVATED WATER STORAGE TANK			
GT-12 COATING AND APPURTENANCES MODIFICATIONS			
DETAILS			
DESIGNED BY	M.A.G.	DATE	10/27/10
DRAWN BY	L.R.	PLANT PROJECT ENGINEER	
CHECKED BY	A.J.S.	DATE	10/27/10
DATE	10-22-10	CHECKED BY	10/27/10
SCALE	AS SHOWN	SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
WORK ORDER	WT488978100	OFFICIAL NOTICE	142-2010
DRAWING NO.			GT-12-05



ISO VIEW

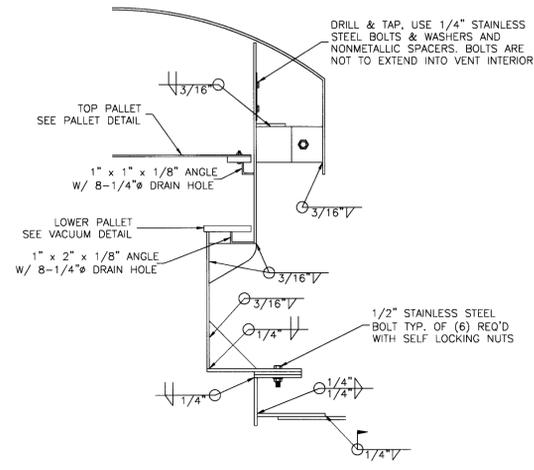
ROOF VENT
NOT TO SCALE

1
-



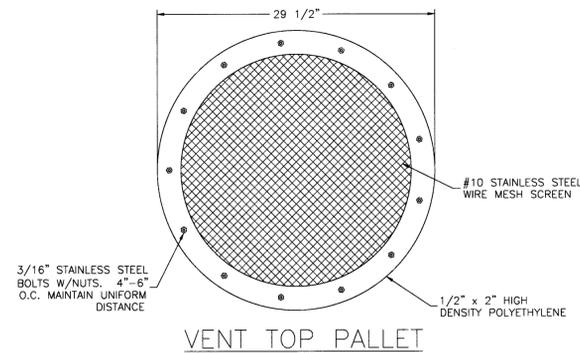
ROOF VENT PLAN VIEW
NOT TO SCALE

2
-

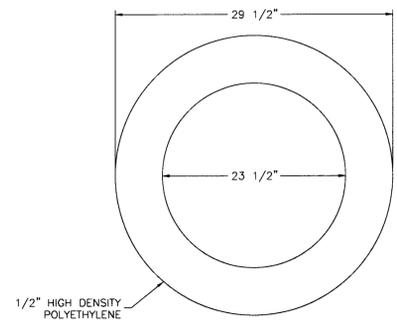


ROOF VENT WELDING DETAIL
NOT TO SCALE

3
-



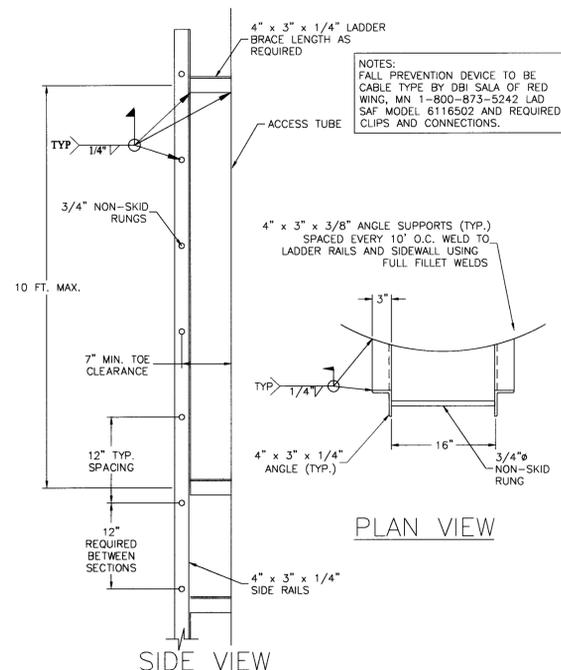
VENT TOP PALLET



VENT VACUUM PALLET

ROOF VENT PALLET DETAILS
NOT TO SCALE

4
-



PLAN VIEW

SIDE VIEW

REPLACE WET INTERIOR LADDER

WET INTERIOR LADDER
NOT TO SCALE

5
-

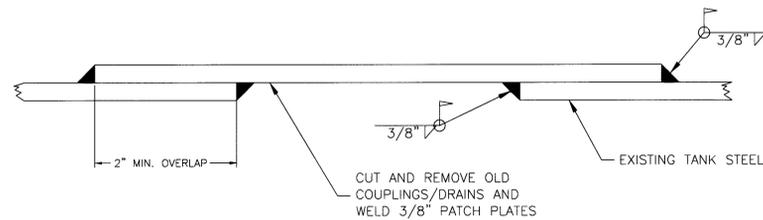
DETAILS PROVIDED BY MEAD & HUNT/DIXON ENGINEERING, INC

Milwaukee Water Works Water Engineering
Department of Public Works
ELEVATED WATER STORAGE TANK
GT-12 COATING AND APPURTENANCES MODIFICATIONS

DETAILS

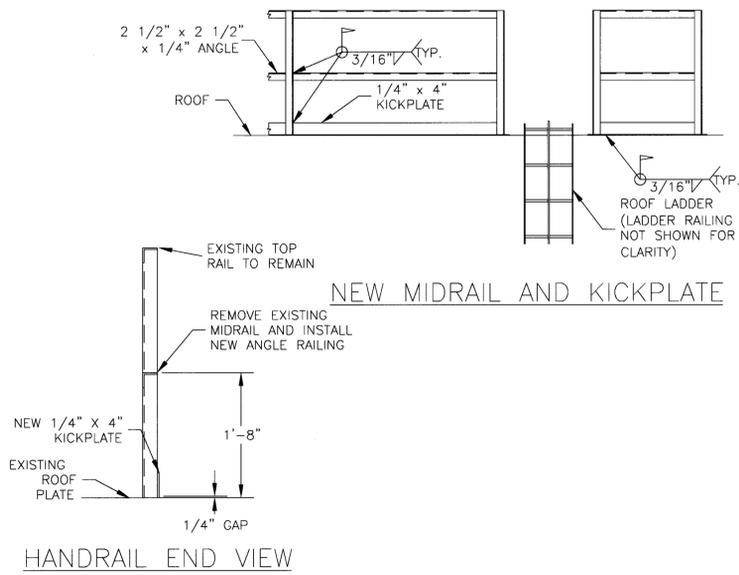
DESIGNED BY	M.A.G.	DATE	10/27/10
DRAWN BY	L.R.	PLANT PROJECT ENGINEER	
CHECKED BY	A.J.S.	DATE	10/27/10
SCALE	AS SHOWN	SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
WORK ORDER	WT488078100	OFFICIAL NOTICE	142-2010
NO.	BY	REVISION	DATE

DRAWING NO. GT-12-06

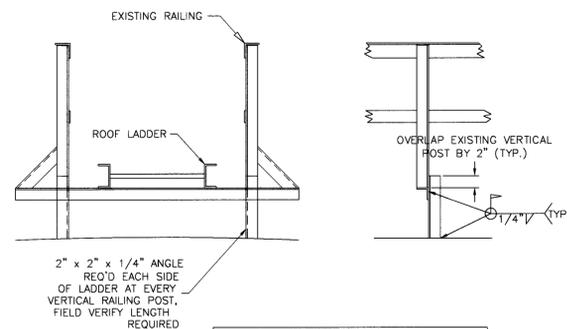


PATCH PLATES

PATCH PLATES
NOT TO SCALE



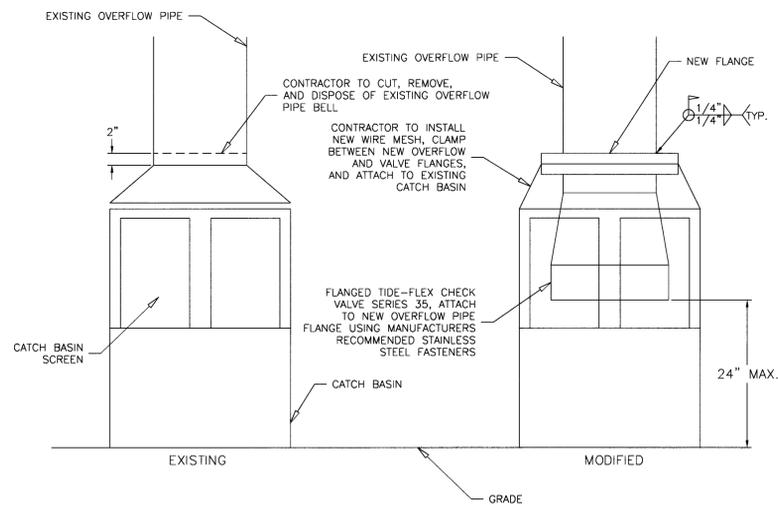
ROOF HANDRAIL
NOT TO SCALE



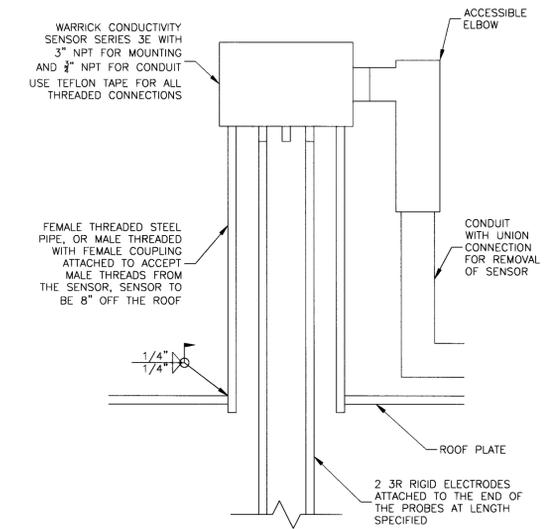
FIXED ROOF LADDER
NOT TO SCALE



NOTES:
1. POSITION SHALL BE FIELD VERIFIED BY ENGINEER, TO BE 12" MAXIMUM FROM WET INTERIOR ROOF HATCH.
2. REMOVE ALL REVOLVING PARAPHERNALIA (CONSISTING OF WHEELS, BRACKETS AND INCLUDING THE CIRCULAR TRACK) FROM THE LADDER AND TANK STRUCTURE.
3. GRIND SMOOTH ALL CUTS AND WELDS.
4. MAINTAIN 7" MINIMUM TOE CLEARANCE THROUGHOUT SIDEWALL AND CURVATURE SECTION OF THE LADDER.
5. FALL PREVENTION DEVICE TO BE CABLE TYPE BY DBI SALA OF RED WING, MN 1-800-873-5242 LAD SAF MODEL 6116502 AND REQUIRED CLIPS AND CONNECTION. DEVICE ALSO TO HAVE STAND-OFF AT THE TOP.



OVERFLOW PIPE MODIFICATIONS
NOT TO SCALE



NOTE:
CONDUIT TO BE ROUTED FROM THE SENSOR AND CONNECTED TO THE EXISTING CONDUIT FOR ROUTING DOWN TO EQUIPMENT AT THE BASE OF THE TOWER, THERE IS TO BE NO GAPS WHERE WIRING IS EXPOSED.

ROOF MOUNTED LEVEL SENSOR
NOT TO SCALE



DETAILS PROVIDED BY MEAD & HUNT/DIXON ENGINEERING, INC

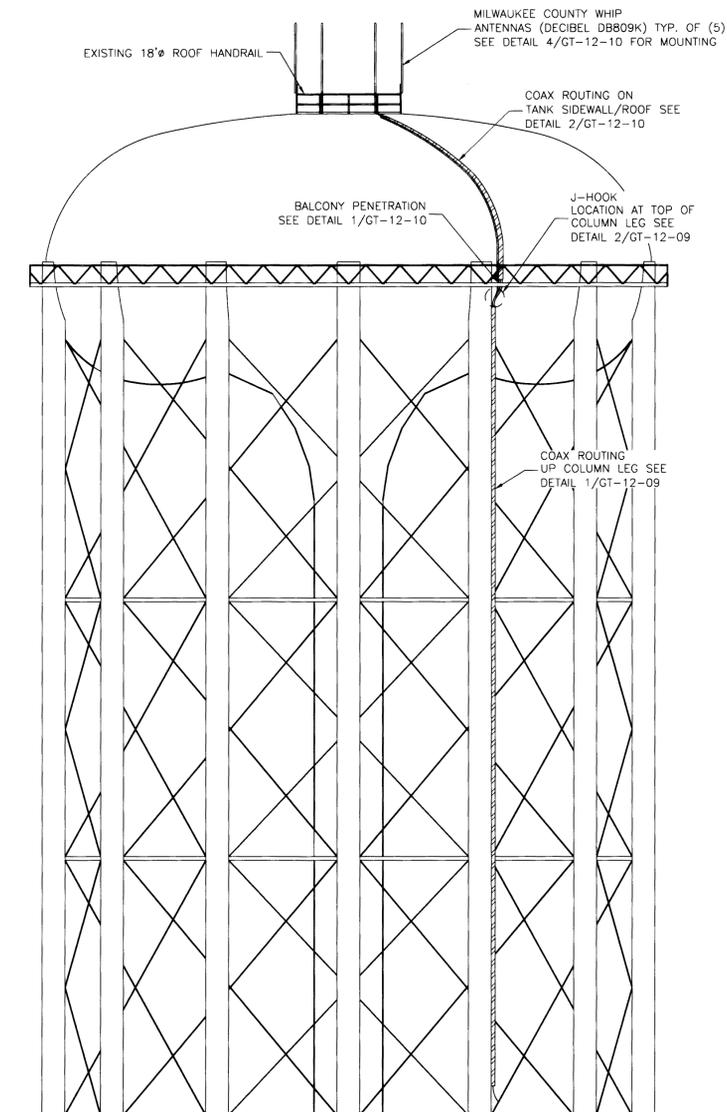
Milwaukee Water Works Department of Public Works
Water Engineering

ELEVATED WATER STORAGE TANK
GT-12 COATING AND APPURTENANCES MODIFICATIONS

DETAILS

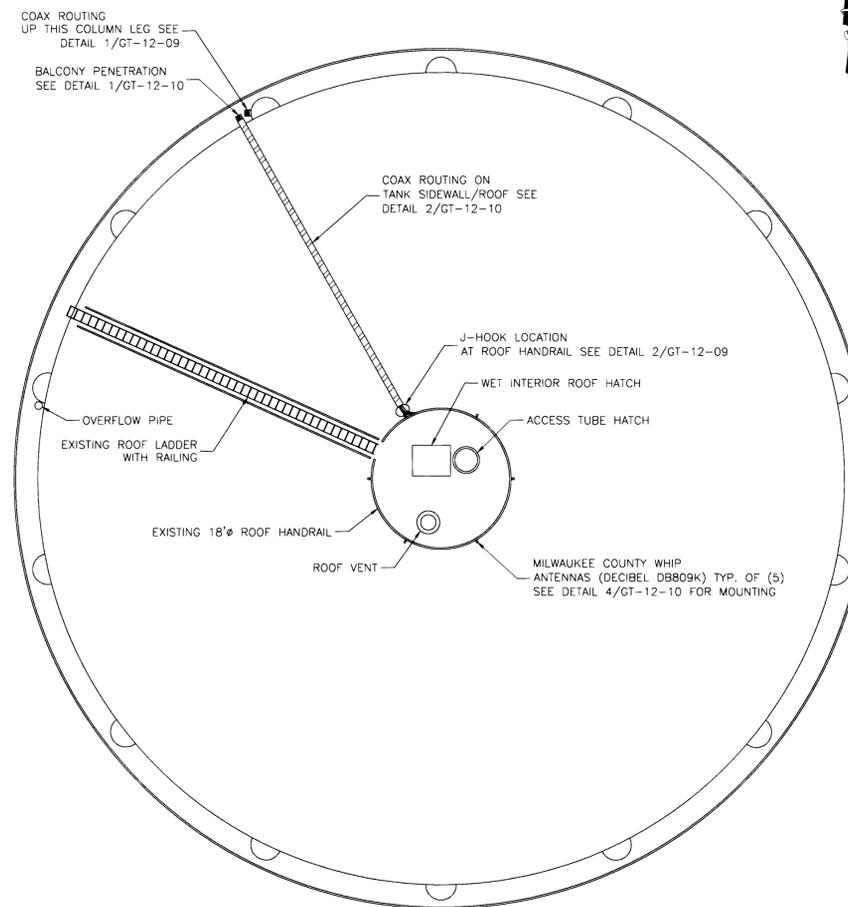
DESIGNED BY	M.A.G.	DATE	10/27/10
DRAWN BY	L.R.	PLANT/PROJECT ENGINEER	
CHECKED BY	A.J.S.	DATE	10/27/10
SCALE	AS SHOWN	CHIEF DESIGN ENGINEER	
WORK ORDER	WT489078100	SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
OFFICIAL NOTICE	142-2010	FILE NO.	
DRAWING NO. GT-12-07			

NO.	BY	REVISION	DATE



NORTH ELEVATION VIEW
NOT TO SCALE

1
—



PLAN VIEW
NOT TO SCALE

2
—

NOTE:
WHIP ANTENNAS, COAXIAL CABLE AND SHEET METAL SHROUD SHALL BE PROVIDED BY OTHERS

DETAILS PROVIDED BY MEAD & HUNT/DIXON ENGINEERING, INC

Milwaukee Water Works Water Engineering
Department of Public Works

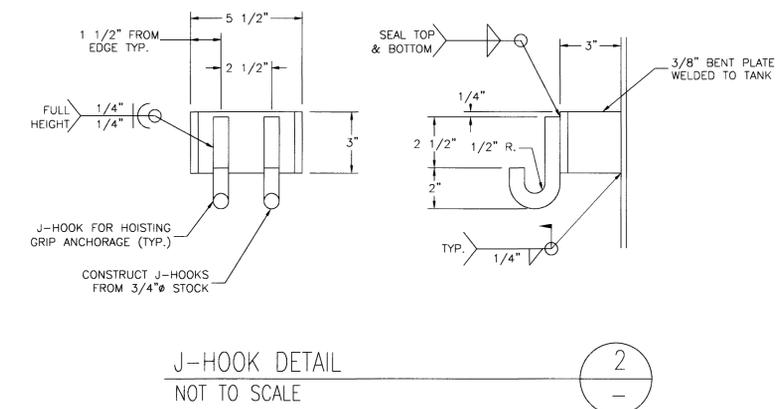
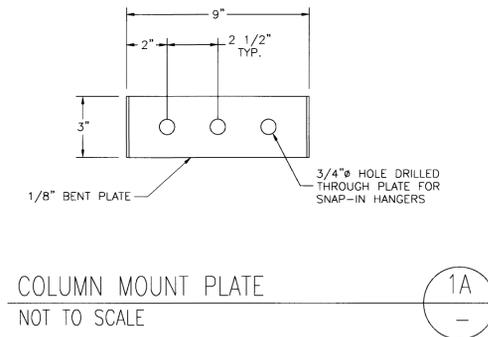
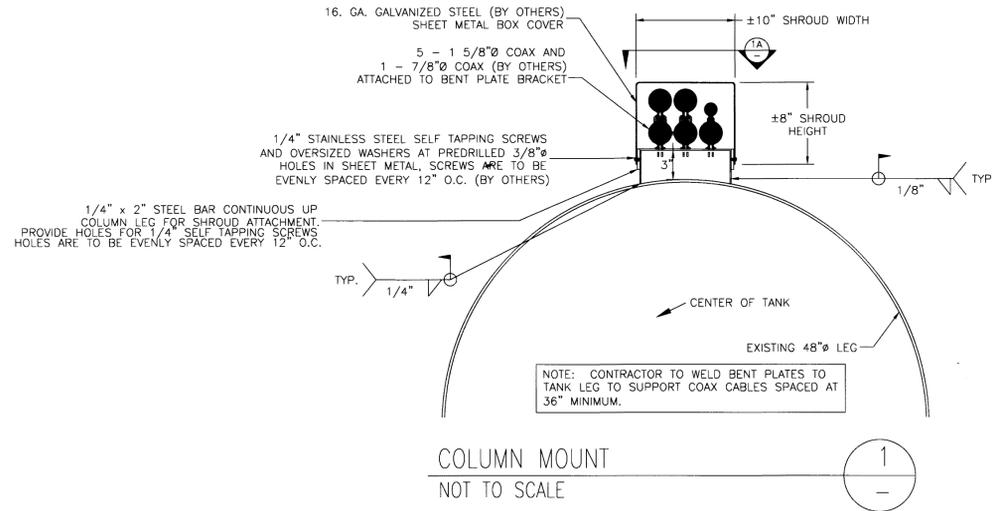
**ELEVATED WATER STORAGE TANK
GT-12 COATING AND APPURTENANCES
MODIFICATIONS**

ANTENNA MOUNTS

DESIGNED BY	M.A.G.	DATE	10/27/10
DRAWN BY	L.R.	PLANTS PROJECT NUMBER	10/27/10
CHECKED BY	A.J.S.	CHIEF PLANTS ENGINEER	10/27/10
DATE	10-22-10	SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	10/27/10
SCALE	AS SHOWN		
WORK ORDER	WT450070100		
OFFICIAL NOTICE	142-2010		

NO.	BY	REVISION	DATE	FILE NO.

DRAWING NO. **GT-12-08**



GENERAL SHOP PAINTING INSTRUCTIONS:

1. ABRASIVE BLAST CLEAN ALL NEW STEEL TO COMMERCIAL GRADE (SSPC-SP6) CONDITION AND APPLY COATING SYSTEM FOR EXTERIOR STEEL - EXTERIOR SYSTEM NUMBER 1. SEE SPECIFICATIONS SPECIFICATIONS SECTION 09960.
 2. EDGES TO BE WELDED IN THE FIELD SHALL NOT BE COATED (LEAVE A MINIMUM OF TWO INCHES BARE METAL.)
 3. PREPARATION OF GALVANIZED MATERIAL: APPLY ONE COAT OF CLEAN 'N' ETCH AS PER MANUFACTURER'S RECOMMENDATIONS AND COAT IN ACCORDANCE WITH COATINGS AS SPECIFIED BELOW:

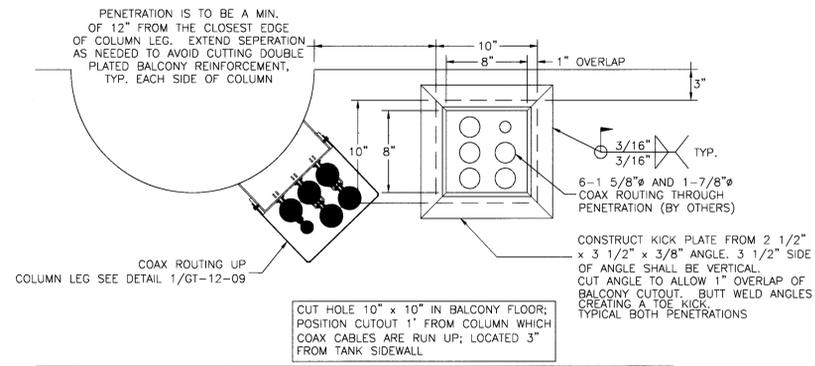
COAT	TNEMEC SERIES	MINIMUM DFT	MAXIMUM DFT
PRIMER	66 HI-BUILD EPOXOLINE	2.0	3.0
TOP COAT*	1074 ENDURA-SHIELD	2.0	3.0
TOTAL		4.0	6.0
 4. APPLY ALL COATINGS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- *TOP COAT COLOR TO MATCH EXISTING COLOR.

NOTE: WHIP ANTENNAS, COAXIAL CABLE AND SHEET METAL SHROUD SHALL BE PROVIDED BY OTHERS

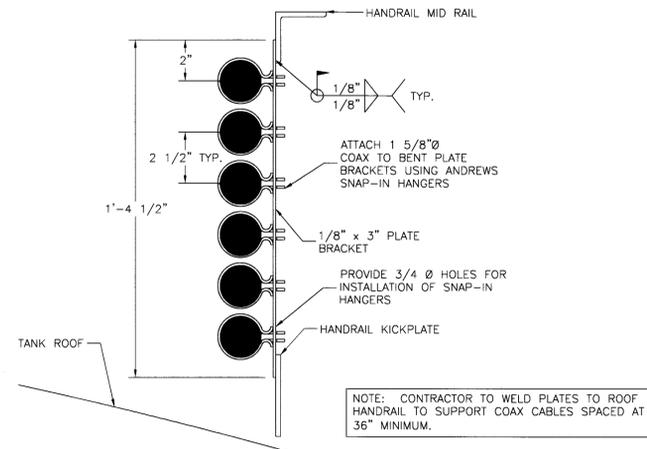
DETAILS PROVIDED BY MEAD & HUNT/DIXON ENGINEERING, INC

Milwaukee Water Works		Water Engineering Department of Public Works	
ELEVATED WATER STORAGE TANK			
GT-12 COATING AND APPURTENANCES MODIFICATIONS			
ANTENNA MOUNTS			
DESIGNED BY	M.A.G.	DATE	10/27/10
DRAWN BY	L.R.	PLANT PROJECT ENGINEER	
CHECKED BY	A.J.S.	DATE	10/27/10
SCALE	AS SHOWN	CHIEF DESIGN ENGINEER	
WORK ORDER	WT480070100	SPECIAL DUTY COMMISSIONER OF PUBLIC WORKS	
OFFICIAL NOTICE	142-2010	DRAWING NO.	GT-12-09

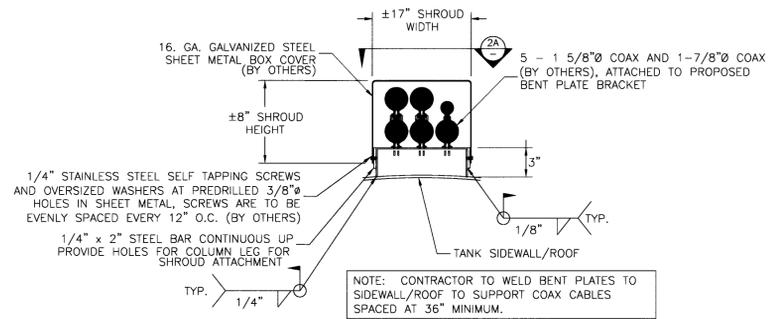
NO.	BY	REVISION	DATE	FILE NO.



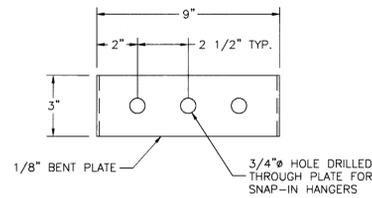
BALCONY PENETRATION
NOT TO SCALE



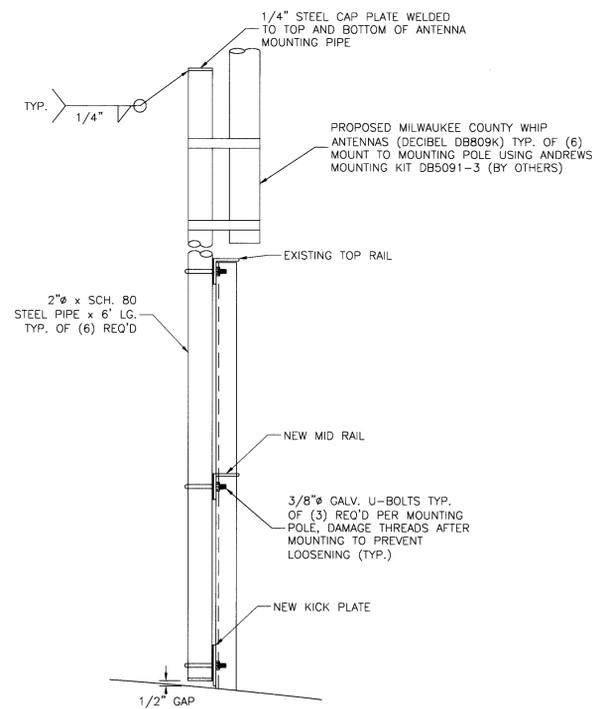
COAX ROUTING ON HANDRAIL
NOT TO SCALE



SIDEWALL/ROOF COAX SUPPORT
NOT TO SCALE



SIDEWALL/ROOF COAX SUPPORT
NOT TO SCALE



ANTENNA MOUNT
NOT TO SCALE

NOTE: WHIP ANTENNAS, COAXIAL CABLE AND SHEET METAL SHROUD SHALL BE PROVIDED BY OTHERS

DETAILS PROVIDED BY MEAD & HUNT/DIXON ENGINEERING, INC

Milwaukee Water Works		Water Engineering Department of Public Works	
ELEVATED WATER STORAGE TANK			
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DRAWN BY	L.R.	PLANT PROJECT ENGINEER	
CHECKED BY	A.J.S.	DATE	10/27/10
SCALE	AS SHOWN	CHIEF ENGINEER	
WORK ORDER	WT460076100	SPECIAL DEPUTY COMMISSIONER OF PUBLIC WORKS	
OFFICIAL NOTICE	142-2010	FILE NO.	
DRAWING NO.			GT-12-10

NO.	BY	REVISION	DATE