

IF THIS SHEET IS NOT 30" x 42"
FULL SIZE, USE GRAPHIC SCALES



DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER

VA HUDSON VALLEY HEALTHCARE SYSTEM
MONTROSE, NEW YORK

REHABILITATION OF WATER STORAGE TOWER #54

PROJECT NO. 620-14-106

CAMPUS MAP

LOCATION OF MOBILE CELLULAR TOWER UNIT BY CELLULAR COMMUNICATION COMPANY.

EXISTING UNDERGROUND UTILITIES (TELEPHONE ETC.) CONTRACTOR TO HIRE SERVICES OF OUTSIDE AGENCY FOR MARKING OUT ALL UNDERGROUND UTILITIES. MARK OUT 6'-0" BOTH SIDES OF EXCAVATION AREA AND ENTIRE LENGTH. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED UTILITIES AND COST OF THE REPAIRS.

TEMPORARY LOCATION OF UNDERGROUND CONNECTION BETWEEN TOWER AND MOBILE CELLULAR TOWER UNIT BY CELLULAR COMMUNICATION COMPANY CONTRACTOR TO VERIFY LOCATION IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AND COST FOR REPAIRS.

TEMPORARY LOCATION OF OVERHEAD CONNECTION BETWEEN TOWERS BY CELLULAR COMMUNICATION COMPANY. CONTRACTOR TO VERIFY LOCATION IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AND COST OF REPAIRS.

NO.	BUILDING DESIGNATION
1	ADMINISTRATION BUILDING
2	THEATER BUILDING
3	OUTPATIENT AND CLINICAL SUPPORT
4	PSYCHIATRIC BUILDING
5	KITCHEN AND DINING HALL BUILDING
6	LONG TERM CARE
7	SPD
8	VACANT
9	VACANT
10	VACANT
11	VACANT
12	TREATMENT MALL
13	RESIDENTIAL
14	PSYCHIATRIC BUILDING
15	LONG TERM CARE
16	ENGINEERING
17	SUPPLY WAREHOUSE BUILDING
18	LEASED TO KEON
19	STATION GARAGE BUILDING
20	SOILER HOUSE BUILDING
24	UTILITY BUILDING
25	CANTEEN AND RECREATION BUILDING
26	SWIMMING POOL AND EXERCISE BUILDING
29	CHAPEL BUILDING
28	RESIDENTIAL
29	QUARTERS BUILDING
30	APARTMENT BUILDING
31	DIRECTOR'S QUARTERS
36	SEWAGE TREATMENT PLANT
52	SGRMATORY

AREA MAP

MAIN ENTRANCE TO CAMPUS OFF ROUTE 9A

ARCHITECT/ENGINEER

SJH Engineering, P.C.
3700 ROUTE 27, SUITE 201
PRINCETON, NJ 08540
TEL: 732-329-0500
FAX: 866-812-1207

CONSULTANT

CHA CONSULTING
111 WINNERS CIRCLE
P.O. BOX 5269
ALBANY, NY 12205
TEL: 518-453-4500
FAX: 518-458-1735

PHASING

VA WILL COORDINATE THE RELOCATION AND REINSTALLATION OF THE CELLULAR SERVICE ANTENNA ARRAY LOCATED ON WATER TOWER #54 DURING THE COURSE OF THE WATER TOWER REHABILITATION PROJECT WITH THE CELL SERVICE PROVIDER AND THE CONTRACTOR. THE GC MUST PROVIDE A MINIMUM 6 WEEK LOOK AHEAD FOR ANTENNA SITE COORDINATION.

CONTRACTOR MUST COORDINATE ALL THE WORK ASSOCIATED WITH THE WATER TOWER ABATEMENT PROCEDURES INCLUDING SCAFFOLD AND PROTECTIVE TARP INSTALLATIONS, ENVIRONMENTAL MONITORING AND REMOVALS WITH THE VA TO ENSURE THAT ALL NOTIFICATIONS, PERMITS, AND PROJECT PHASING MEETS WITH AND COMPLIES WITH ALL VA POLICIES AND GUIDELINES FOR THE REHABILITATION OF WATER TOWER #54.

DRAWING LIST

NUMBER	DRAWING	NAME
1	GI001	TITLE SHEET, AREA MAP, DRAWING LIST
2	GI002	GENERAL NOTES AND LEGEND
3	CS101	EXISTING SITE PLAN
4	CU101	SITE PLAN FOR WATER TOWERS
5	CU102	WATER TOWER ELEVATION & DETAILS
6	ES101	ELECTRICAL AND CONTROLS SITE PLAN, DETAILS AND DIAGRAMS
7	EI101	INSTRUMENTATION AND CONTROLS DETAILS
8	EP101	CONTROL ROOM & METER PIT ELECTRIC PLAN, DETAIL AND PANEL SCHEDULE
9	EY101	TOWER #54 LIGHTNING PROTECTION SYSTEM
10	MP101	ALTITUDE VALVE PIT PARTIAL SITE PLAN, DEMOLITION, NEW WORK AND DETAILS

DESIGN CHANGE APPROVED	ARCHITECT /ENGINEER	SEAL	CONSULTANTS	SEAL		Project Title	Project Title	Project Number	Office of Facility Management Service		
	 SJH ENGINEERING, P.C. 3700 ROUTE 27, SUITE 201, PRINCETON, NJ 08540 732-329-0500 www.sjheng.com	 S. JAYAKUMARAN PROFESSIONAL ENGINEER STATE OF NEW YORK	 CHA 111 Winners Circle, P.O. Box 5269 Albany, NY 12205-0269 518.453.4500 • www.chacompanies.com			TITLE SHEET, AREA MAP, DRAWING LIST	WATER STORAGE TANK #54 REHABILITATION FDR CAMPUS VA HUDSON VALLEY HEALTH CARE SYSTEM	620-14-106	Building Number WATER TOWER #54 & #54 SITE Drawing Number GI001 Dwg. 1 Of 10		
DESCRIPTION	DATE					Chief Engineer Approval	Location	Date		Checked	Drawn
							2094 ALBANY POST ROAD, MONTROSE, NY 10548	6/29/2016	SJ	MM	

GENERAL NOTES

- THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINE, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL, OR BLAST, CALL U.F.P.O. 1-(800)-962-7962 TOLL FREE.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED AS DETERMINED BY THE ENGINEER. ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
- ALL PROPOSED UTILITIES AND APPURTENANCES TO BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
- THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY THE ENGINEER.
- MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PATCHING, BLOCKING, TRIMMING, ETC., SHALL BE PERFORMED AS REQUIRED TO MAKE THE WORK COMPLETE.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND COORDINATE WORK WITH ALL OTHER CONTRACTS FOR THE SITE.
- THE CONTRACTOR SHALL:
 - VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK.
 - PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.
 - HOLD THE OWNER HARMLESS AGAINST ANY AND ALL CLAIMS ARISING FROM WORK DONE BY THE CONTRACTOR ON THE SITE.
- ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH 29 CFR 1926 SUB PART P, AND THE LATEST REVISIONS OF NEW YORK STATE INDUSTRIAL CODE RULE 23 AND OSHA REGULATIONS FOR CONSTRUCTION. SHEET PILING SHALL BE DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK AND SHALL SUBMIT A DEWATERING PLAN DESIGNED AND SEALED BY A NEW YORK STATE PROFESSIONAL ENGINEER. CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
- ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE ENGINEER AND THE UTILITY OWNER 72 HOURS BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
- CONSTRUCTION OF ALL PROPOSED UTILITIES MUST BEGIN AT ITS POINT OF CONNECTION TO THE EXISTING UTILITY OR AT THE LOWEST POINT IN THE SYSTEM. RIMS, GRATES, INVERTS, CLEARANCES, AND LOCATION AT CROSSINGS MUST BE VERIFIED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- ALL FRAMES/COVERS WITHIN PAVED AREAS SHALL HAVE THE TOPS SET FLUSH WITH THE EXISTING PAVEMENT GRADE. IN LANDSCAPED AREAS, ALL FRAMES SHALL BE 0.1' ABOVE GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES, AND INVERTS. AS-BUILT PLANS SHOWING ALL UNDERGROUND UTILITIES INSTALLED OR ENCOUNTERED SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES. THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED.
- TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF EXCAVATION AND BACKFILL OPERATIONS WITHIN THE EXISTING PAVEMENT LIMITS.
- ALL EXCAVATIONS SHALL BE BACKFILLED TO EXISTING GRADE AT THE END OF EACH WORK DAY.
- CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR'S LOCK FOR SECURING OF ENTRY GATE TO THE WATER TOWER WORK SITE SHALL COMPLY WITH VA SITE SECURITY PROTOCOL, INCLUDING A LOCK THRU LOCK APPLICATION.
- CONTRACTOR SHALL BE AWARE THAT HOMEOWNERS EXIST ADJACENT TO THE WATER TOWER SITE. CONSTRUCTION NOISE DURING TANK REHABILITATION AND ABATEMENT SHALL BE KEPT TO A MINIMUM. REFER TO SPECIFICATION 015719 FOR FURTHER INFORMATION.
- CONTRACTOR SHALL REFER TO SPECIFICATION 028333.13 FOR REQUIREMENTS OF LEAD BASED PAINT REMOVAL AND DISPOSAL INCLUDING CONTROLS AREAS, CONTAINMENT SCREENS AND TARPS.
- CONTRACTOR SHALL CERTIFY THAT THEIR WORKERS HAVE BEEN MEDICALLY TESTED IN ACCORDANCE WITH SPECIFICATION 028333.13.
- NEGATIVE AIR ENVIRONMENTS MUST BE MONITORED USING A CALIBRATED MONITORING DEVICE EQUIPPED WITH PRINTING HISTORICAL NEGATIVE AIR READINGS (DAILY, WEEKLY AND MONTHLY) AND TIMES WHEN THE DEVICE IS IN ALARM. THE MONITORING DEVICE DAILY PRINT OUT ARE TO BE KEPT BY THE CONTRACTOR FOR REVIEW BY THE VA AND SUBMITTED TO VA MONTHLY.
- CONTRACTOR SHALL REFER TO THE PAINT AND SOIL SAMPLING REPORT PROVIDED IN THE SPECIFICATIONS FOR SOIL SAMPLING LOCATIONS AND PRE-CONSTRUCTION TESTING RESULTS.
- THE WATER TOWER REHABILITATION CONTRACTOR SHALL SUBMIT TRAINING RECORDS PERTAINING TO HAZARDOUS WASTE MANAGEMENT, US DEPARTMENT OF TRANSPORTATION (USDOT) HAZARDOUS MATERIAL SHIPPER. THE CONTRACTOR SHALL SIGN ALL SHIPPING DOCUMENTS, INCLUDING BUT NOT LIMITED TO, THE UNIFORM HAZARDOUS WASTE MANIFESTS. UNDER THE US DOT'S HAZARDOUS MATERIALS REGULATIONS (HMR) REGULATIONS AT 49 CFR PARTS 171-181 ET AL, DOT REQUIRES ALL CONTRACTOR'S EMPLOYEES WHO CAN "DIRECTLY AFFECT HAZARDOUS MATERIALS TRANSPORTATION SAFETY" TO COMPLETE HAZMAT TRAINING. ALL TRAINING RECORDS SHALL INCLUDE THE TRAINING CERTIFICATES AND A SYNOPSIS OF TRAINING TOPICS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY CHARACTERIZE ALL WASTES GENERATED FROM THIS CONSTRUCTION PROJECT AND DEMONSTRATE THAT IT IS CLASSIFIED AS NONHAZARDOUS SOLID WASTE, AS DEFINED BY TITLE 6 OF THE NEW YORK CODES, RULES AND REGULATIONS PART 371. THIS SHALL BE DOCUMENTED IN A WASTE CHARACTERIZATION REPORT SIGNED BY THE CONTRACTOR. ALL ANALYTICAL TESTING MUST BE COMPLETED BY A NYSDOH ENVIRONMENTAL LABORATORY APPROVAL PROGRAM (ELAP) CERTIFIED ENVIRONMENTAL LABORATORY.
- CONTRACTOR SHALL REFER TO EPA SW-846 HAZARDOUS WASTE TEST METHODS FOR TCLP TESTING.
- ANY LEAD CONTAINING SOILS THAT ARE DISTURBED BY SITE EXCAVATIONS MUST BE DISPOSED OF OFF-SITE AND CANNOT GO BACK INTO THE TRENCH. EXCAVATED SOIL MAY NOT BE PILED ON-SITE OUTSIDE THE DESIGNATED CONSTRUCTION AREA. SOIL SHALL BE HELD IN CONTAINERS OR DUMPSTERS UNTIL THEY ARE SHIPPED OFF-SITE. EXCAVATED SOIL SHALL BE SHIPPED TO A LANDFILL OR RECYCLER FACILITY AUTHORIZED TO ACCEPT EXCAVATED SOIL. NO SOIL MAY BE REUSED ON PRIVATE PROPERTY.
- TRENCHED AREAS OR OTHER DISTURBED AREAS MUST BE FILLED WITH SOILS THAT ARE CERTIFIED TO MEET THE NYS DEC CLEAN SOIL STANDARDS.
- ALL WASTE CONTAINERS AND DUMPSTER SHALL BE COVERED AT ALL TIMES EXCEPT WHEN ADDING OR REMOVING WASTE. THE COVER SHALL PREVENT PRECIPITATION FROM COMING INTO CONTACT WITH THE WASTE.
- ALL CONTAINERS HOLDING CHEMICAL PRODUCTS OR WASTE SHALL BE INDOORS AND IN SECONDARY CONTAINMENT. THE SECONDARY CONTAINMENT SHALL BE OF ADEQUATE CAPACITY TO HOLD THE VOLUME OF THE LARGEST CONTAINER.
- ALL WASTE STORAGE AREAS SHALL BE INSPECTED ON A DAILY BASIS AND RECORD OF INSPECTIONS KEPT BY THE CONTRACTOR.
- ALL WASTE MATERIALS SHALL BE SHIPPED FROM THE CONSTRUCTION SITE WITHIN 30 CALENDAR DAYS FROM THE DATE OF GENERATION TO A FACILITY AUTHORIZED BY REGULATORY AGENCIES TO MANAGE THE WASTE.
- ALL CONTRACTOR AND SUBCONTRACTOR SAFETY RECORDS SHALL BE PROVIDED TO THE VA UPON REQUEST IN ACCORDANCE WITH SPECIFICATION 013526.
- THE CONTRACTOR SHALL IDENTIFY LOCATIONS FOR THE WORK SCAFFOLDS AND TARP ENCLOSURES FOR ENVIRONMENTAL CONTROLS AT THE SITE.
- CONTRACTOR SHALL SECURE ENGINEERING SERVICES FOR THE DESIGN OF THE WORK SCAFFOLD. THE FINAL DESIGN AND ASSEMBLY DETAILS FOR THE WORK SCAFFOLD AND TARPS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK.
- WORK SCAFFOLD MUST BE SERVICED AND MAINTAINED BY THE CONTRACTOR FOR THE FULL PERIOD OF THE WATER TANK REHABILITATION PROJECT.

EROSION CONTROL NOTES

- NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
- SITE DISTURBANCE SHALL NOT EXCEED ONE (1) ACRE OF SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN AUTHORIZATION FROM NYSDEC.
- ALL EXPOSED AREAS SHALL BE SEEDED AND MULCHED AS SPECIFIED WITHIN 7 DAYS OF FINAL GRADING.
- INACTIVE PORTIONS OF THE SITE ARE TO BE SEEDED AND MULCHED AS SPECIFIED WITHIN 7 DAYS.
- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) DAYS OR MORE FREQUENTLY IF REQUIRED. ALL MAINTENANCE REQUIRED BY INSPECTION SHALL COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 48 HOURS OF REPORT.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- GENERAL CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY FOLLOWING SITE INSPECTION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.

SCOPE OF WORK:

A BRIEF SUMMARY OF THE SCOPE OF WORK UNDER THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

ELECTRICAL WORK:

- POWER WILL BE PROVIDED TO ALL NEW EQUIPMENT: NAMELY THE MIXING SYSTEM, CATHODIC PROTECTION SYSTEM, WARNING LIGHTS, DEHUMIDIFIER, AND SPACE HEATER.
- NEW CONDUITS FOR POWER AND CONTROL WIRE WILL BE TRENCHED IN THE GROUND AND RUN FROM THE WATER TOWER TO THE BOILER ROOM ELECTRICAL PANEL.
- A NEW ELECTRICAL SUB-PANEL WILL BE PLACED AT THE BASE OF TOWER #54.
- A NEW LIGHTNING PROTECTION SYSTEM WILL BE INSTALLED.

MECHANICAL WORK:

- REMOVAL AND REPLACEMENT OF THE EXISTING, EXPOSED VALVE PIT PIPING INCLUDING ALL PIPE SUPPORTS, FITTINGS, GATE VALVES, ALTITUDE VALVE, DRAIN VALVE AND PRESSURE/ TEMPERATURE GAUGES.
- DISINFECTING OF NEW VALVE PIT PIPING.
- PAINTING THE EXTERIOR OF ALL PIPING, FITTINGS AND VALVES WITHIN THE VAULT UPON COMPLETION OF WORK.
- A NEW FLOOR DRAIN FOR THE PIT WILL BE ADDED TO DRAIN TO A DRYWELL.
- NEW DRAIN PIPING WILL BE TRENCHED AND BACKFILLED.

WATER TOWER #54 IMPROVEMENTS:

- BLASTING AND PAINTING OF THE INTERIOR AND EXTERIOR OF THE WATER STORAGE TOWER.
- INSTALLATION OF A MIXING SYSTEM IN THE INTERIOR OF THE TANK.
- INSTALLATION OF A CATHODIC PROTECTION SYSTEM IN THE INTERIOR OF THE TANK.
- EXTENSION OF WATER STORAGE TOWER INLET PIPING UP TO THE BOWL.
- EXTENSION OF WATER STORAGE TOWER OVERFLOW PIPING FROM TANK OVERFLOW OUTLET TO GRADE WITH ELASTOMER CHECK VALVE AND SPLASH PAD.
- REPLACEMENT OF EXISTING TEMPERATURE AND PRESSURE GAUGES.
- REPLACEMENT OF EXISTING MANHOLE IN RISER WITH A NEW ELLIPTICAL MANHOLE IN RISER.
- INSTALLATION OF A YARD HYDRANT.

WATER TOWER #34 IMPROVEMENTS:

- REPLACEMENT OF EXISTING TEMPERATURE AND PRESSURE GAUGES.

SURVEY LEGEND		
DESCRIPTION	EXISTING	PROPOSED
FENCE		
5' OR 10' CONTOUR LINE		
1' OR 2' CONTOUR LINE		
SPOT ELEVATION	120.5 OR x120.5	120.5 OR x120.5
DITCH OR SWALE		
EDGE OF STREAM OR RIVER		
LAKE OR POND		
PROPERTY LINE		
SILT FENCE		
GRADING LIMITS		
EDGE OF PAVEMENT		
CURB		
EDGE OF GRAVEL/DIRT ROAD		
EDGE OF WOODS		
BUILDING		
STORM SEWER	(TYPE) STORM SEWER	
SANITARY SEWER	(TYPE) SANITARY SEWER	
FORCE MAIN	(TYPE) FORCE MAIN	
WATER LINE	(TYPE) WATER LINE	
GAS LINE	(TYPE) GAS LINE	
UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC	
UNDERGROUND TELEPHONE	UNDERGROUND TELEPHONE	
OVERHEAD TELEPHONE	OVERHEAD WIRES	
OVERHEAD ELECTRIC	OVERHEAD WIRES	
UNDERDRAIN		
GUIDE RAIL		
CLEAN OUT		
END SECTION		
CATCH BASIN		
STORM MANHOLE		
HYDRANT		
WATER VALVE/CONTROL VALVE		
SPRINKLER HEAD		
SANITARY SEWER		
PULL BOX		
TELEPHONE PEDESTAL		
ELECTRIC BOX		
ELECTRIC MANHOLE		
LIGHT POLE, LAMP POST		
POWER POLE / UTILITY POLE		
SIGN - SINGLE FACED		
SIGN - DOUBLE FACED		
MARKER		
CONCRETE MONUMENT		
RIGHT-OF-WAY MONUMENT		
IRON ROD, PIN, OR PIPE		
BORING LOCATION		
CBR LOCATION		
WETLAND/MARSH		
TREES, SHRUBS, BUSHES		
DETAIL CALLOUT		
DETAIL IDENTIFICATION NO.		
NOTE: SOME FEATURES IN THE LEGEND MAY NOT HAVE BEEN USED		

ELECTRICAL LEGEND		
DESCRIPTION	EXISTING	PROPOSED
PANELBOARD		
CIRCUIT HOMERUN, 120V TO PANELBOARD		
HANDHOLE		
JUNCTION BOX		
PUSH BUTTON		
PUSH-TO-TEST PILOT LIGHTS, LETTER INDICATES COLOR G-GREEN, A-AMBER, R-RED		
ABOVE FINISHED FLOOR	AFF	AFF
1/2" X 3/8" SOLID COPPER AIR TERMINAL		
1/2" X 24" SOLID COPPER AIR TERMINAL		
CROSSOVER CABLE CONNECTOR		
ADHESIVE CABLE CONNECTOR		
CABLE FASTENER		
CABLE CONNECTOR		
GROUND ROD		

MECHANICAL LEGEND		
DESCRIPTION	EXISTING	PROPOSED
PIPING TO BE DEMOLISHED		
DIRECTION OF PIPE PITCH (DOWN)		
DIRECTION OF FLOW		
GATE VALVE		
POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK		
LIMIT OF DEMOLITION		
TEMPERATURE GAUGE		
PRESSURE GAUGE		
FLOOR DRAIN		

100% PRELIMINARY DRAWINGS	12/23/2016
Revisions	Date

ARCHITECT/ENGINEERS:

SJE ENGINEERING, P.C.
3700 ROUTE 27, SUITE 201, PRINCETON, NJ 08540
732-329-0500 www.sjeng.com

CONSULTANTS:

CHA
111 Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 www.chacompanies.com

Drawing Title
GENERAL NOTES AND LEGEND

Approved Project Director

Project Title
**WATER STORAGE TOWER #54 REHABILITATION
FDR CAMPUS
VA HUDSON VALLEY HEALTH CARE SYSTEM**

Project Number
620-14-106

Building Number
WATER TOWER #54 & #54 SITE

Location
2094 ALBANY POST ROAD, MONTROSE, NY 10548

Date
6/29/2016

Checked
MBA

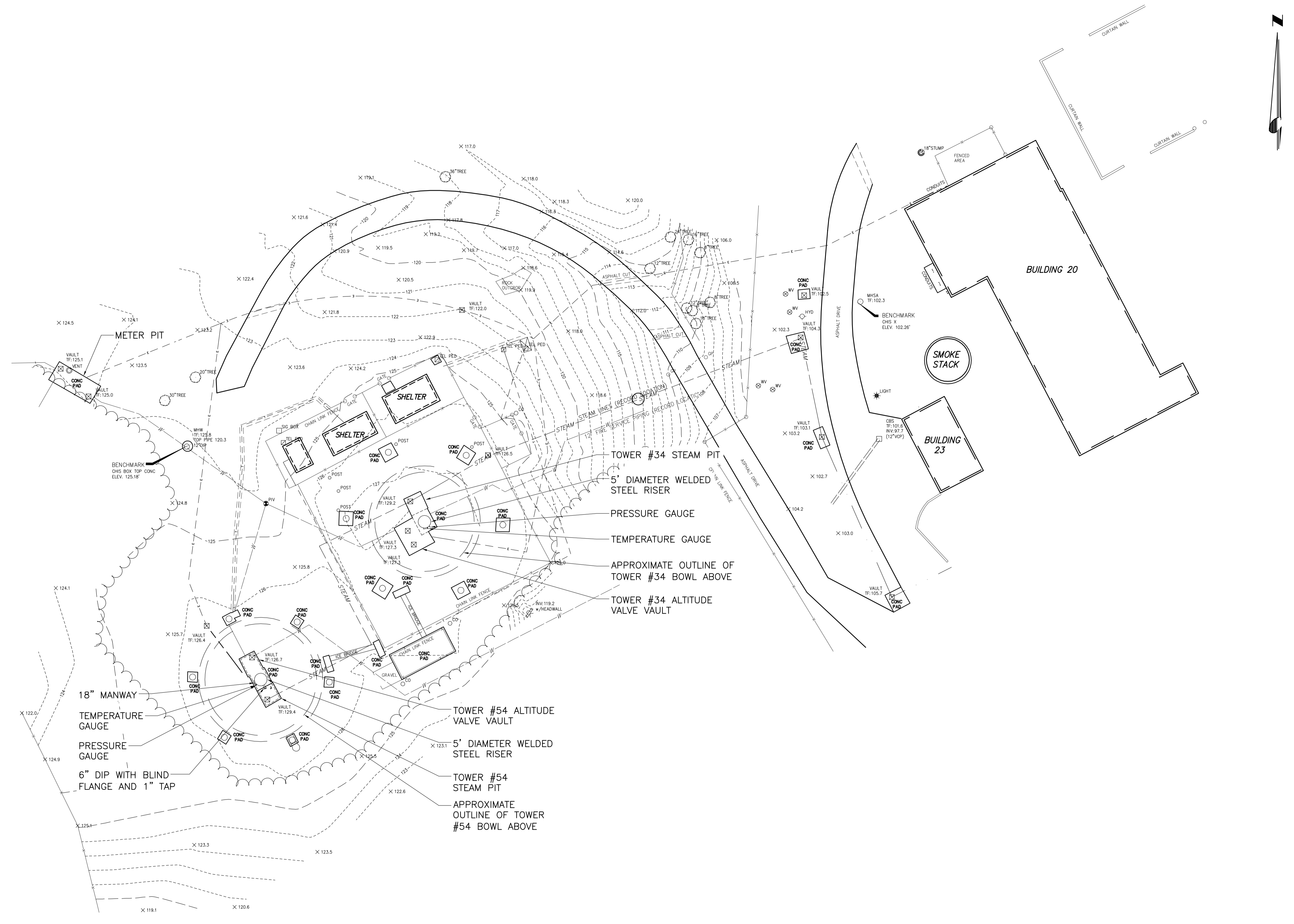
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SNP

Drawing Number
GI002

Dwg. 2 of 10

Office of
Construction
and Facilities
Management

three eighths inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one and one half inches = one foot
 one inch = one foot
 three inches = one foot



EXISTING SITE PLAN
 0 20 40
 Scale in feet

100% PRELIMINARY DRAWINGS	12/23/2015
Revisions	Date

ARCHITECT/ENGINEERS:

 SJH ENGINEERING, P.C.
 3700 ROUTE 27, SUITE 201, PRINCETON, NJ 08540
 732-329-0500 www.sjheng.com

CONSULTANTS:

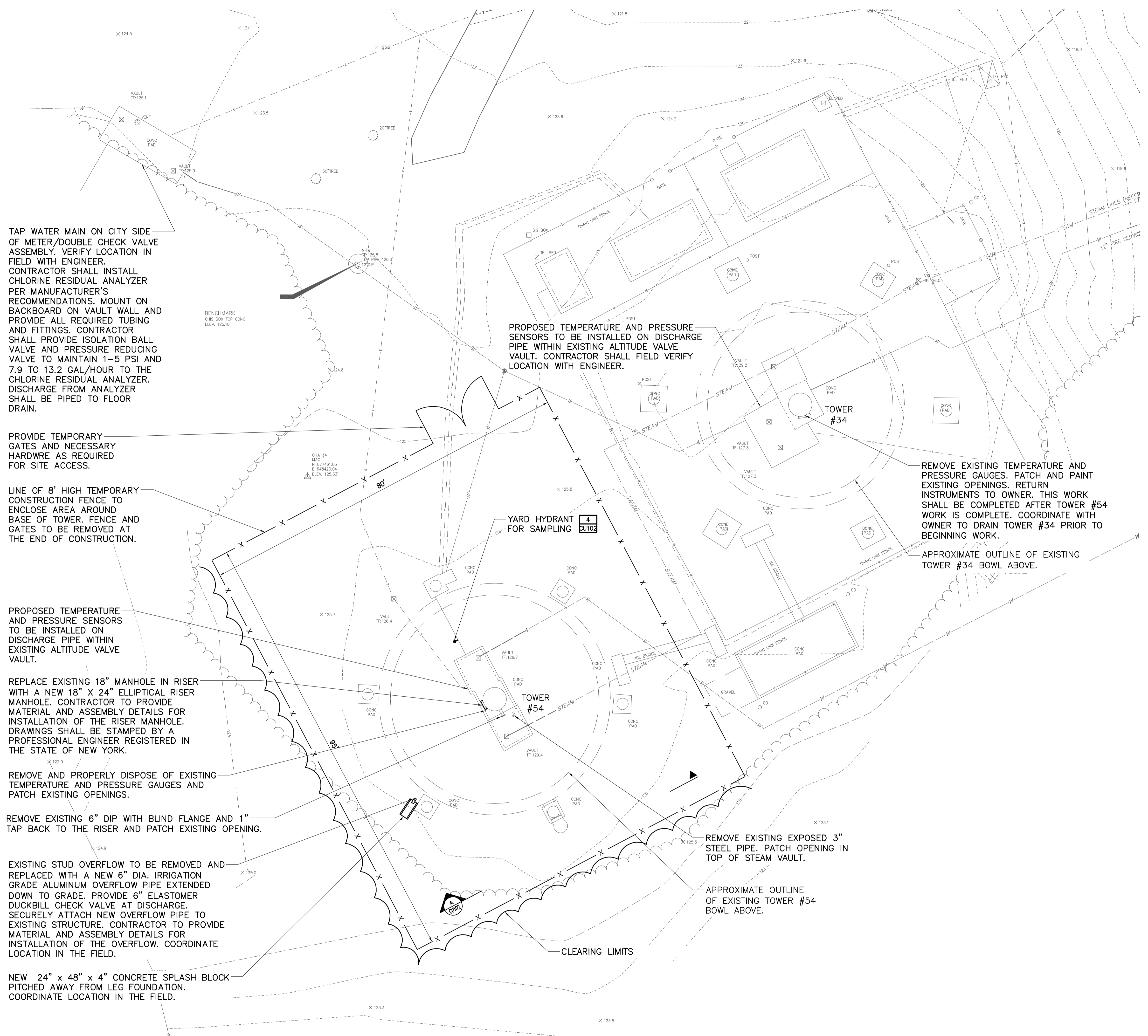
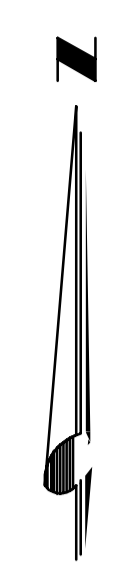
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 CHA
 111 Winners Circle, PO Box 5269
 Albany, NY 12205-0269
 518.453.4500 www.chacompanies.com

Drawing Title	EXISTING SITE PLAN
Approved Project Director	

Project Title			Project Number	
WATER STORAGE TOWER #54 REHABILITATION FDR CAMPUS VA HUDSON VALLEY HEALTH CARE SYSTEM			620-14-106	
Location			Building Number	
2094 ALBANY POST ROAD, MONTROSE, NY 10548			WATER TOWER #34 & #54 SITE	
Date	Checked	Drawn	Drawing Number	
6/29/2016	MBA	SNP	CS101	
			Dwg. 3 of 10	

Office of
 Construction
 and Facilities
 Management

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot



TAP WATER MAIN ON CITY SIDE OF METER/DOUBLE CHECK VALVE ASSEMBLY. VERIFY LOCATION IN FIELD WITH ENGINEER. CONTRACTOR SHALL INSTALL CHLORINE RESIDUAL ANALYZER PER MANUFACTURER'S RECOMMENDATIONS. MOUNT ON BACKBOARD ON VAULT WALL AND PROVIDE ALL REQUIRED TUBING AND FITTINGS. CONTRACTOR SHALL PROVIDE ISOLATION BALL VALVE AND PRESSURE REDUCING VALVE TO MAINTAIN 1-5 PSI AND 7.9 TO 13.2 GAL/HOUR TO THE CHLORINE RESIDUAL ANALYZER. DISCHARGE FROM ANALYZER SHALL BE PIPED TO FLOOR DRAIN.

PROVIDE TEMPORARY GATES AND NECESSARY HARDWARE AS REQUIRED FOR SITE ACCESS.

LINE OF 8' HIGH TEMPORARY CONSTRUCTION FENCE TO ENCLOSE AREA AROUND BASE OF TOWER. FENCE AND GATES TO BE REMOVED AT THE END OF CONSTRUCTION.

PROPOSED TEMPERATURE AND PRESSURE SENSORS TO BE INSTALLED ON DISCHARGE PIPE WITHIN EXISTING ALTITUDE VALVE VAULT.

REPLACE EXISTING 18" MANHOLE IN RISER WITH A NEW 18" X 24" ELLIPTICAL RISER MANHOLE. CONTRACTOR TO PROVIDE MATERIAL AND ASSEMBLY DETAILS FOR INSTALLATION OF THE RISER MANHOLE. DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK.

REMOVE AND PROPERLY DISPOSE OF EXISTING TEMPERATURE AND PRESSURE GAUGES AND PATCH EXISTING OPENINGS.

REMOVE EXISTING 6" DIP WITH BLIND FLANGE AND 1" TAP BACK TO THE RISER AND PATCH EXISTING OPENING.

EXISTING STUD OVERFLOW TO BE REMOVED AND REPLACED WITH A NEW 6" DIA. IRRIGATION GRADE ALUMINUM OVERFLOW PIPE EXTENDED DOWN TO GRADE. PROVIDE 6" ELASTOMER DUCKBILL CHECK VALVE AT DISCHARGE. SECURELY ATTACH NEW OVERFLOW PIPE TO EXISTING STRUCTURE. CONTRACTOR TO PROVIDE MATERIAL AND ASSEMBLY DETAILS FOR INSTALLATION OF THE OVERFLOW. COORDINATE LOCATION IN THE FIELD.

NEW 24" x 48" x 4" CONCRETE SPLASH BLOCK PITCHED AWAY FROM LEG FOUNDATION. COORDINATE LOCATION IN THE FIELD.

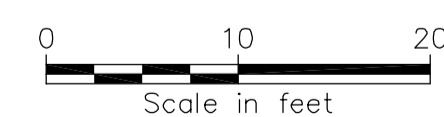
PROPOSED TEMPERATURE AND PRESSURE SENSORS TO BE INSTALLED ON DISCHARGE PIPE WITHIN EXISTING ALTITUDE VALVE VAULT. CONTRACTOR SHALL FIELD VERIFY LOCATION WITH ENGINEER.

REMOVE EXISTING TEMPERATURE AND PRESSURE GAUGES. PATCH AND PAINT EXISTING OPENINGS. RETURN INSTRUMENTS TO OWNER. THIS WORK SHALL BE COMPLETED AFTER TOWER #54 WORK IS COMPLETE. COORDINATE WITH OWNER TO DRAIN TOWER #34 PRIOR TO BEGINNING WORK.

APPROXIMATE OUTLINE OF EXISTING TOWER #34 BOWL ABOVE.

REMOVE EXISTING EXPOSED 3" STEEL PIPE. PATCH OPENING IN TOP OF STEAM VAULT.

APPROXIMATE OUTLINE OF EXISTING TOWER #54 BOWL ABOVE.



SITE PLAN FOR WATER TOWERS
 SCALE: 1" = 10'

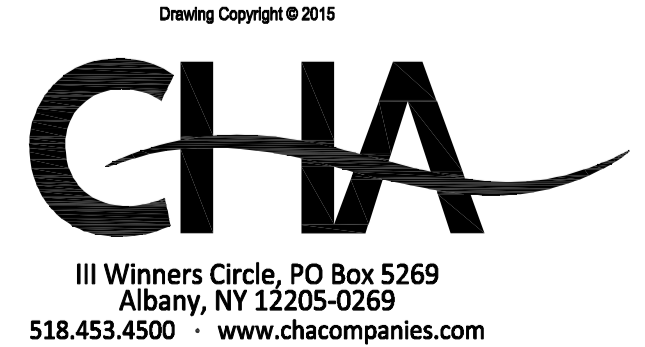
GENERAL WORK NOTES:

- CONTRACTOR TO RESEED, FERTILIZE, AND COVER WITH STRAW, ALL LAWN AREAS DISTURBED DURING CONSTRUCTION.
- CONTRACTOR SHALL PATCH ALL OPENINGS IN EXISTING TOWERS AND RISERS AS A RESULT OF REMOVED ITEMS. CONTRACTOR TO PROVIDE MATERIAL AND ASSEMBLY DETAILS FOR PATCHES TO THE ENGINEER FOR APPROVAL. DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW YORK.
- CONTRACTOR TO PROVIDE ALL SEALANTS AND CAULKING AS REQUIRED AND FIREPROOFING AROUND PENETRATIONS THROUGH ANY FIRE RATED WALLS. RATING OF FIREPROOFING TO SUIT WALL RATING AND CONDITION.
- CONTRACTOR TO PROVIDE ALL EXCAVATION, PAVEMENT REMOVAL, BACKFILLING, PAVEMENT REPLACEMENT SITE RESTORATION, ETC., AS REQUIRED TO SUIT NEW CONCRETE ENGAGED CONDUITS AND NEW LOOP AND SYSTEM FOR THE LIGHTNING PROTECTION SYSTEM. SEE ELECTRICAL DRAWINGS.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK.
- PLANS AND ELEVATIONS OF THE EXISTING TOWERS ARE DIAGRAMMATIC AND ARE USED TO INDICATE WORK TO BE PERFORMED. ACTUAL SIZES AND CONFIGURATION OF THE TOWERS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- CONTRACTOR TO HIRE SERVICES OF OUTSIDE AGENCY FOR MARKING OUT ALL UNDERGROUND UTILITIES. MARK OUT 6'-0" BOTH SIDES OF THE EXCAVATION AREA AND ENTIRE LENGTH. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGED UTILITIES AND COST FOR THEIR REPAIRS.
- SPECIAL PRECAUTIONS SHALL BE TAKEN BY THE CONTRACTOR TO RESTRICT AND CONTROL WIND BORNE FALLOUT OF RESIDUE AND PARTICULATE MATTER FROM CLEANING OPERATIONS, AND / OR PAINT.
- ALL DEBRIS, BRUSH AND OR TREES SHALL BE REMOVED AS INDICATED BY THE CLEARING LIMITS ON THE DRAWINGS.
- ENTIRE INTERIOR OF TANK, INCLUDING BUT NOT LIMITED TO SAFETY RAIL AND 5' DIA. RISER SHALL BE BLASTED AND PAINTED IN ACCORDANCE WITH SPECIFICATION SECTION 099713.
- ENTIRE EXTERIOR OF THE TANK (INCLUDING BUT NOT LIMITED TO THE BOWL, DRY RISER, LEGS, LADDER, CAGE, SUPPORT ROD, VENT, ACCESS HATCHES, AND CATWALK) SHALL BE BLASTED AND PAINTED IN ACCORDANCE WITH SPECIFICATION SECTION 099713.
- EXISTING RISER HEAT PIPE ASSEMBLY AT THE BASE OF 5' DIA. RISER SHALL BE REMOVED AND DISPOSED OF.
- EXISTING RISER OUTLET SEDIMENT SCREEN SHALL BE REMOVED AND REPLACED WITH A NEW SEDIMENT SCREEN.
- TANK REPAIRS TO BE PERFORMED AS SHOWN ON DRAWINGS CU102 AND EI101.

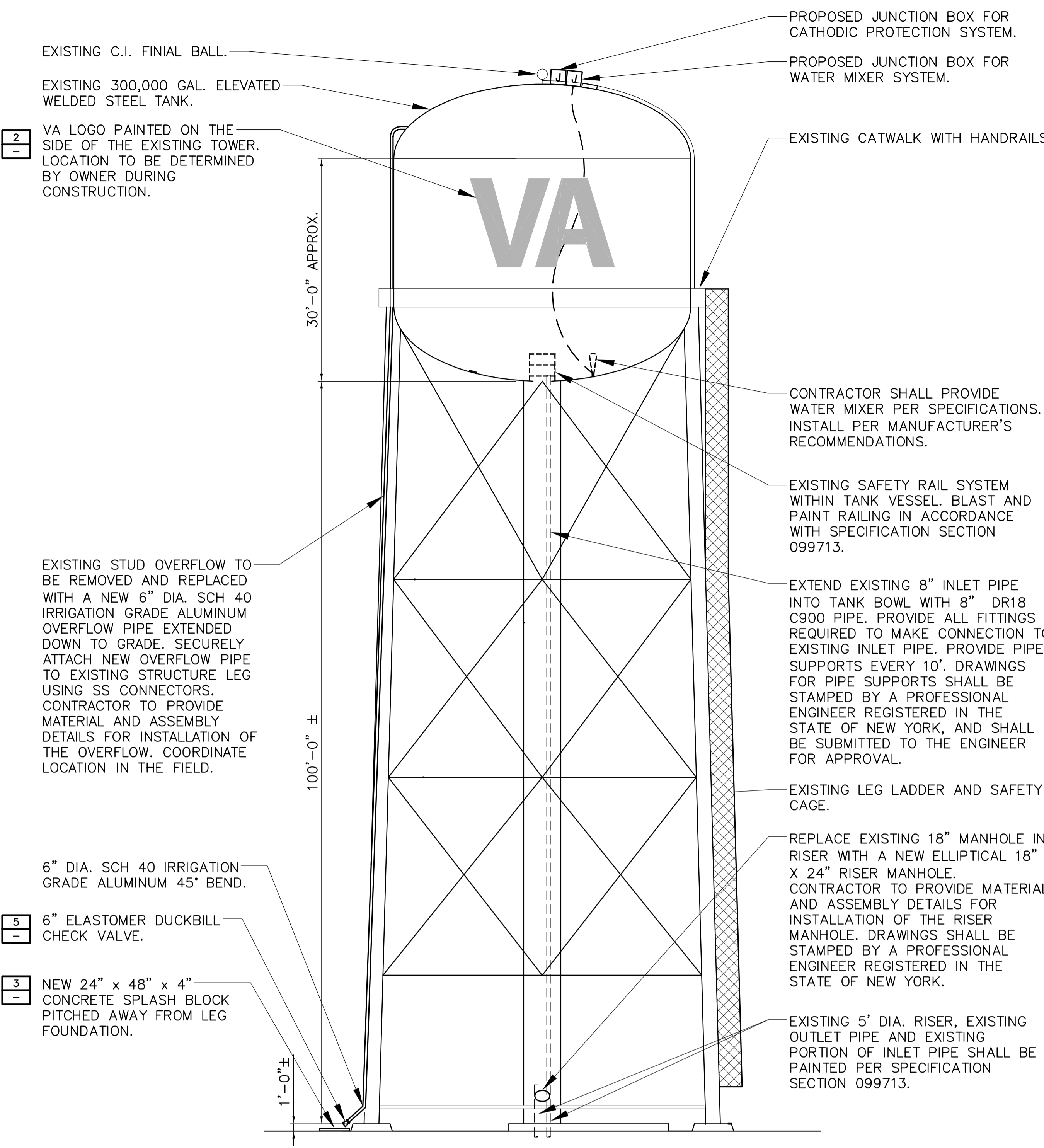
ARCHITECT/ENGINEERS:



CONSULTANTS:

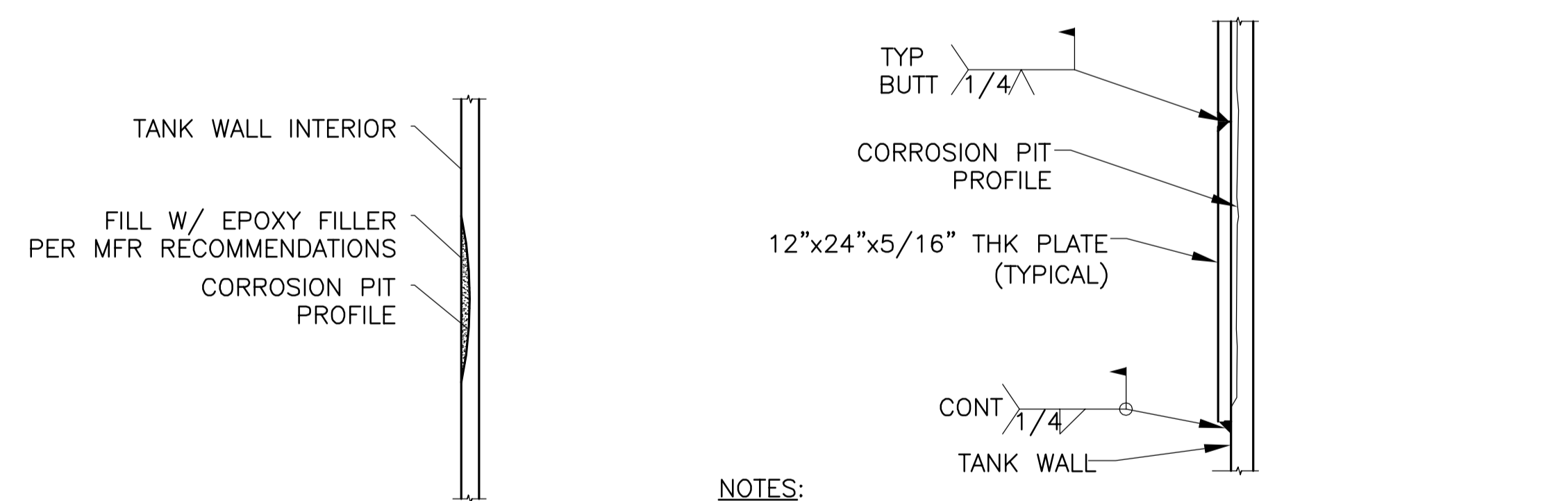


Drawing Title SITE PLAN FOR WATER TOWERS	Project Title WATER STORAGE TOWER #54 REHABILITATION FDR CAMPUS VA HUDSON VALLEY HEALTH CARE SYSTEM		Project Number 620-14-106	Office of Construction and Facilities Management Department of Veterans Affairs
	Approved Project Director		Building Number WATER TOWER #34 & #54 SITE	
Location 2094 ALBANY POST ROAD, MONTROSE, NY 10548		Drawing Number CU101		Dwg. 4 of 10
Date 6/29/2016	Checked MBA	Drawn SNP		



NOTE:
1. CONTRACTOR SHALL PROVIDE CATHODIC PROTECTION SYSTEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

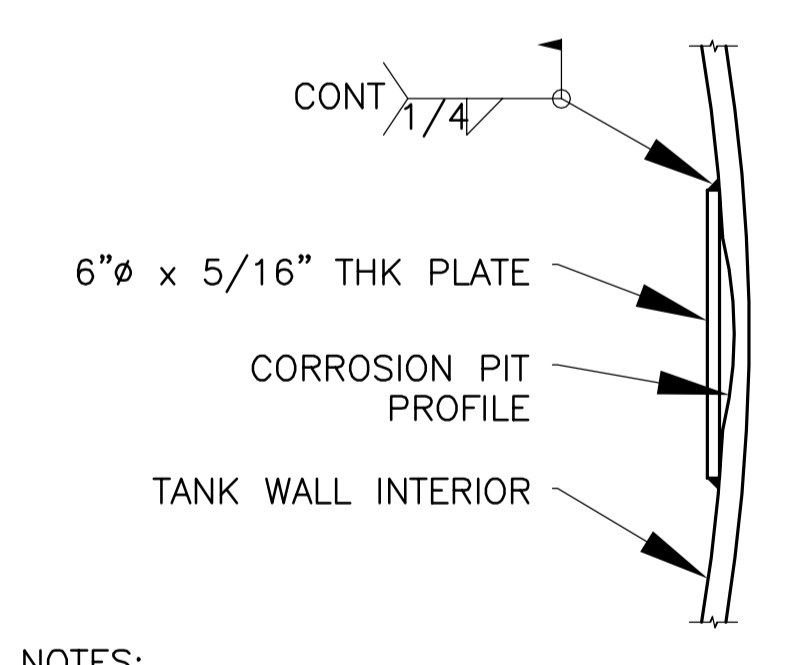
1 TOWER #54 ELEVATION
SCALE: N.T.S.



NOTES:
1. CORROSION PITS REPAIRABLE WITH EPOXY SHALL BE IDENTIFIED BY ENGINEERS INSPECTION FOLLOWING SP-10 "NEAR WHITE" SURFACE PREPARATION.
2. NOTIFY ENGINEER IF ANY CRACK IS DISCOVERED DURING PREPARATION FOR, OR APPLICATION OF EPOXY FILLER.
3. NOTIFY ENGINEER IF PIT DEPTH EXCEEDS 1/8" IN DEPTH FOLLOWING SURFACE PREPARATION.
4. PRIME SURFACE RECEIVING EPOXY FILLER PER MANUFACTURERS RECOMMENDATIONS.

6 TYPICAL EPOXY REPAIR DETAIL (FOR PITS 1-3 MM)
SCALE: 3" = 1'-0"

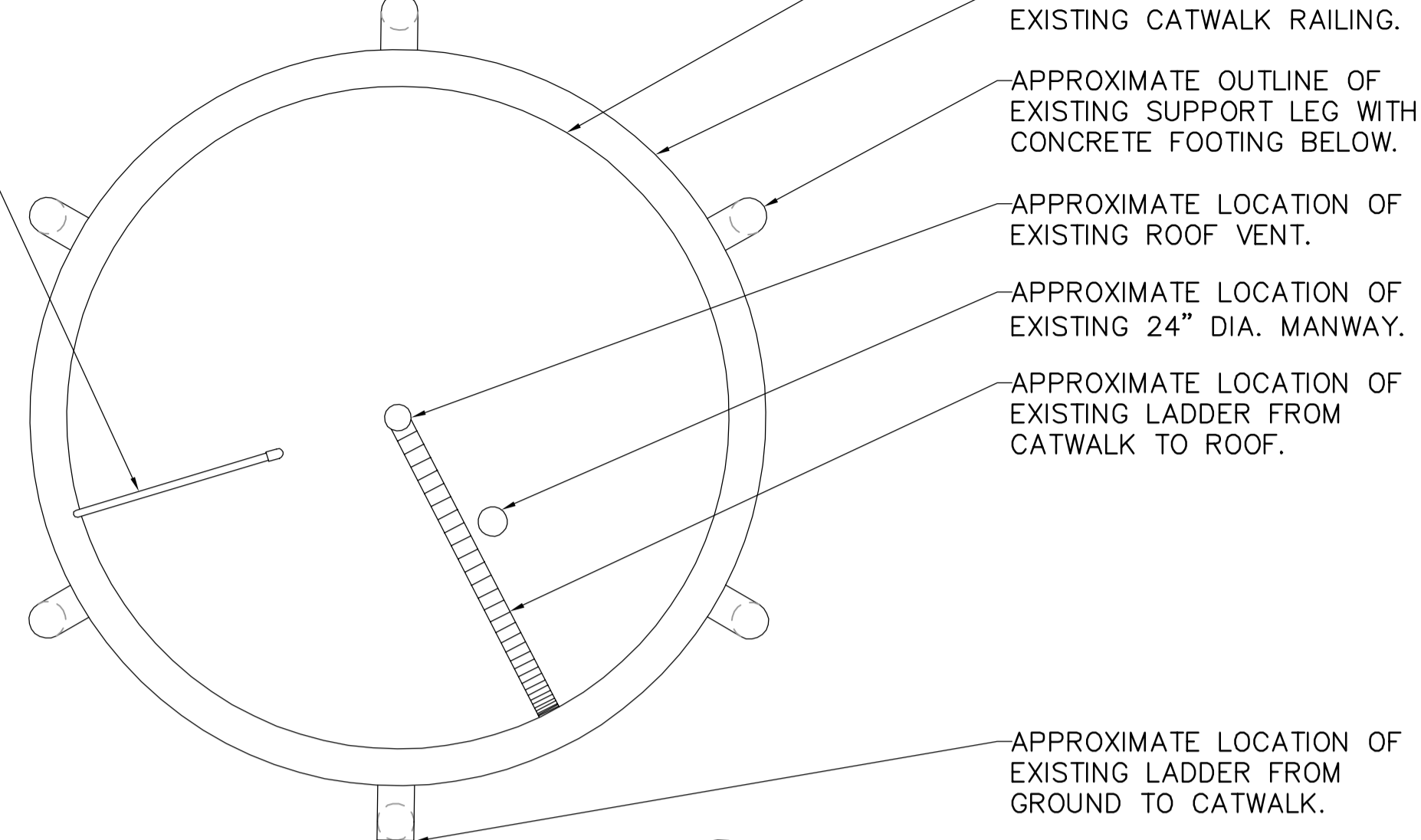
7 12" X 24" PLATE REPAIR DETAIL
SCALE: 3" = 1'-0"



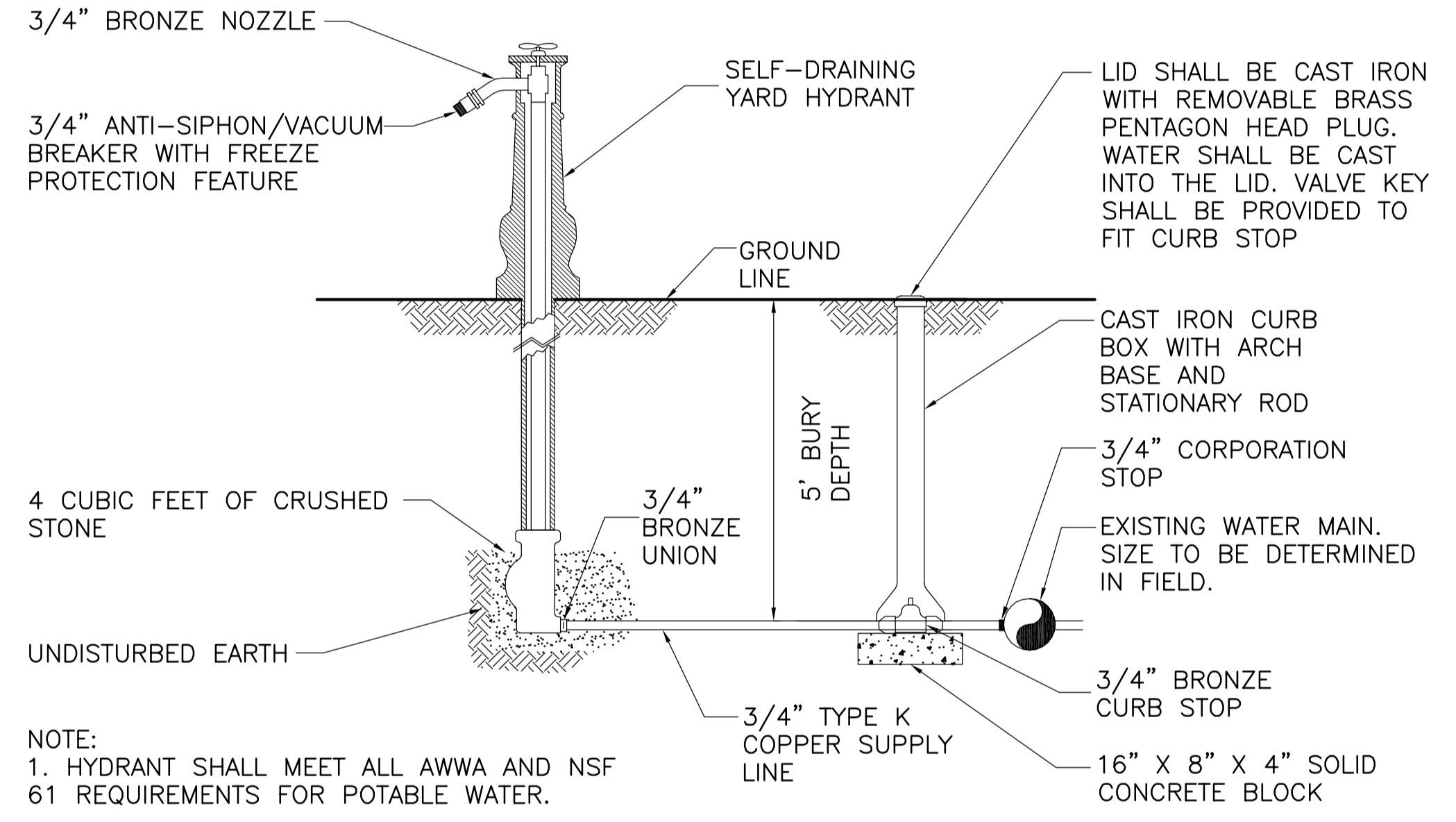
NOTES:
1. CORROSION PITS REPAIRABLE WITH 6"x6" COVER PLATE SHALL BE IDENTIFIED BY ENGINEERS INSPECTION FOLLOWING SP-10 "NEAR WHITE" SURFACE PREPARATION.
2. NOTIFY ENGINEER IF ANY CRACK IS DISCOVERED DURING PREPARATION, WELDING OR GRINDING.
3. NOTIFY ENGINEER IF PIT DEPTH EXCEEDS 1/8" IN DEPTH FOLLOWING SURFACE PREPARATION.
4. BEVEL PLATE EDGES AS REQUIRED @ BUTT JOINTS. BEND PLATE TO MATCH TANK WALL CURVATURE.
5. PRIME TANK WALL AND BOTH SIDES OF PLATE TO MATCH TANK COATING PRIOR TO WELDING.
6. ALL PAINT OR PROTECTIVE COATING SYSTEM DAMAGED BY WELD HEAT TO BE REPAIRED DURING FINAL PAINTING.
7. CONTINUOUS WELD AROUND ALL EDGES OF REPAIR PLATE.

8 6" X 6" PLATE REPAIR DETAIL
SCALE: 3" = 1'-0"

EXISTING STUD OVERFLOW TO BE REMOVED AND REPLACED WITH A NEW 6" DIA. IRRIGATION GRADE ALUMINUM OVERFLOW PIPE EXTENDED DOWN TO GRADE. PROVIDE 6" ELASTOMER DUCKBILL CHECK VALVE AT DISCHARGE. SECURELY ATTACH NEW OVERFLOW PIPE TO EXISTING STRUCTURE LEG USING SS CONNECTORS. CONTRACTOR TO PROVIDE MATERIAL AND ASSEMBLY DETAILS FOR INSTALLATION OF THE OVERFLOW. COORDINATE LOCATION IN THE FIELD.

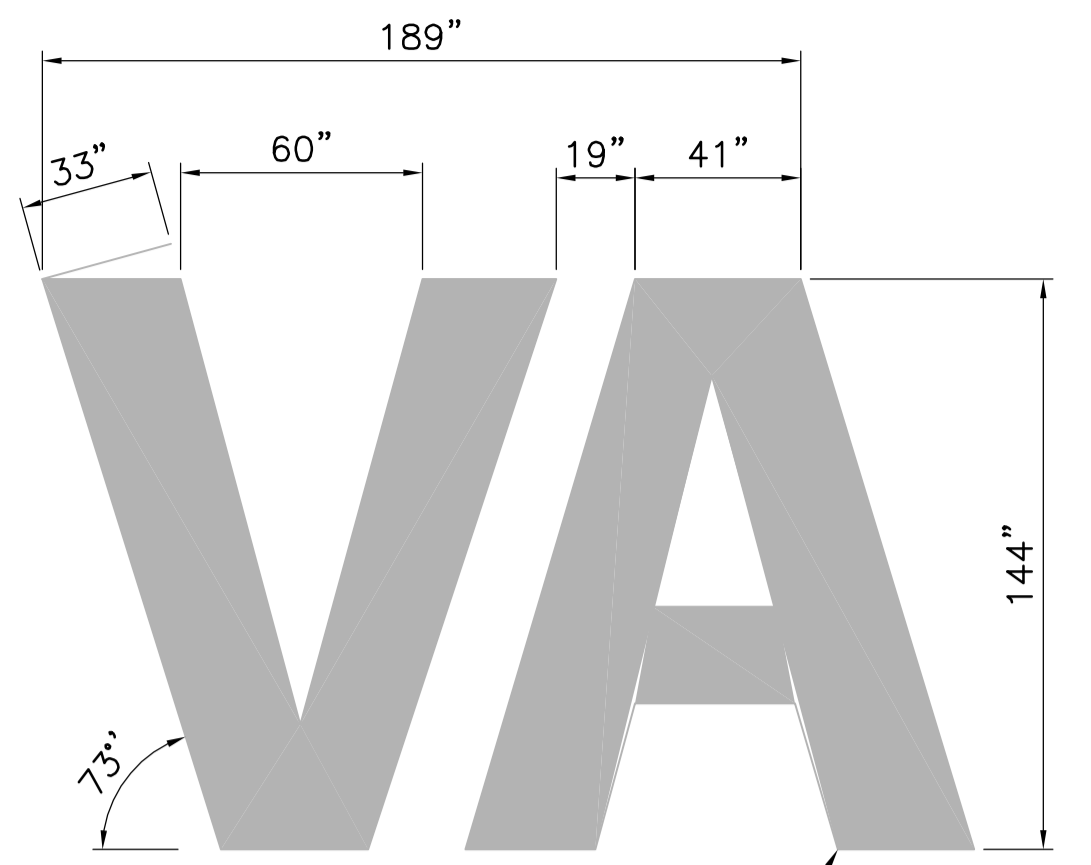


1 TOWER #54 ROOF PLAN
SCALE: N.T.S.



NOTE:
1. HYDRANT SHALL MEET ALL AWWA AND NSF 61 REQUIREMENTS FOR POTABLE WATER.

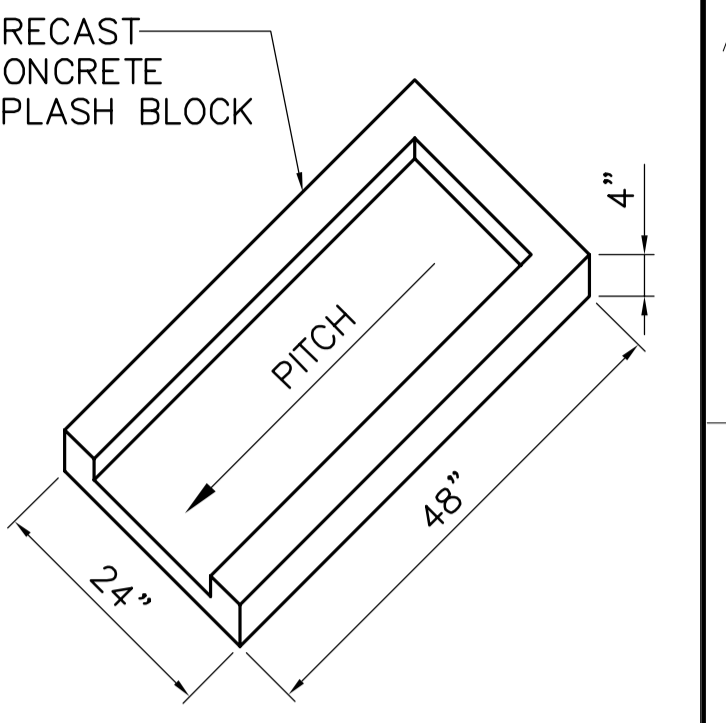
4 YARD HYDRANT DETAIL
SCALE: N.T.S.



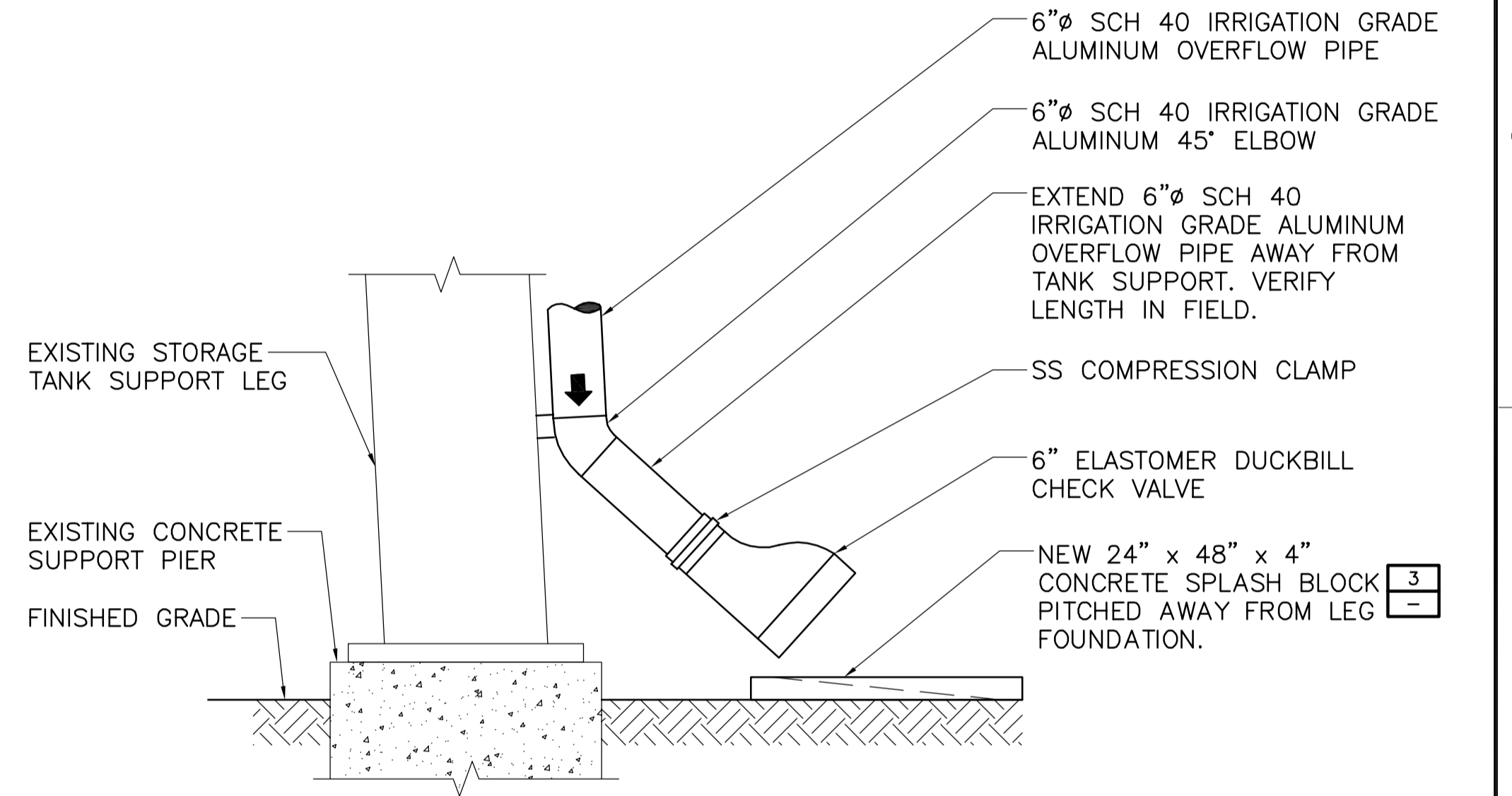
COLOR: PANTONE #541 BLUE
LOCATED ON PAGE 1-1-4 ON THE TIL DESIGN GUIDE - REV 8/1/2014
FONT: MYRIAD PRO REGULAR

NOTE:
1. VA SHALL PROVIDE AUTOCAD FILE FOR CONTRACTOR COORDINATION OF LOGO PAINTING.

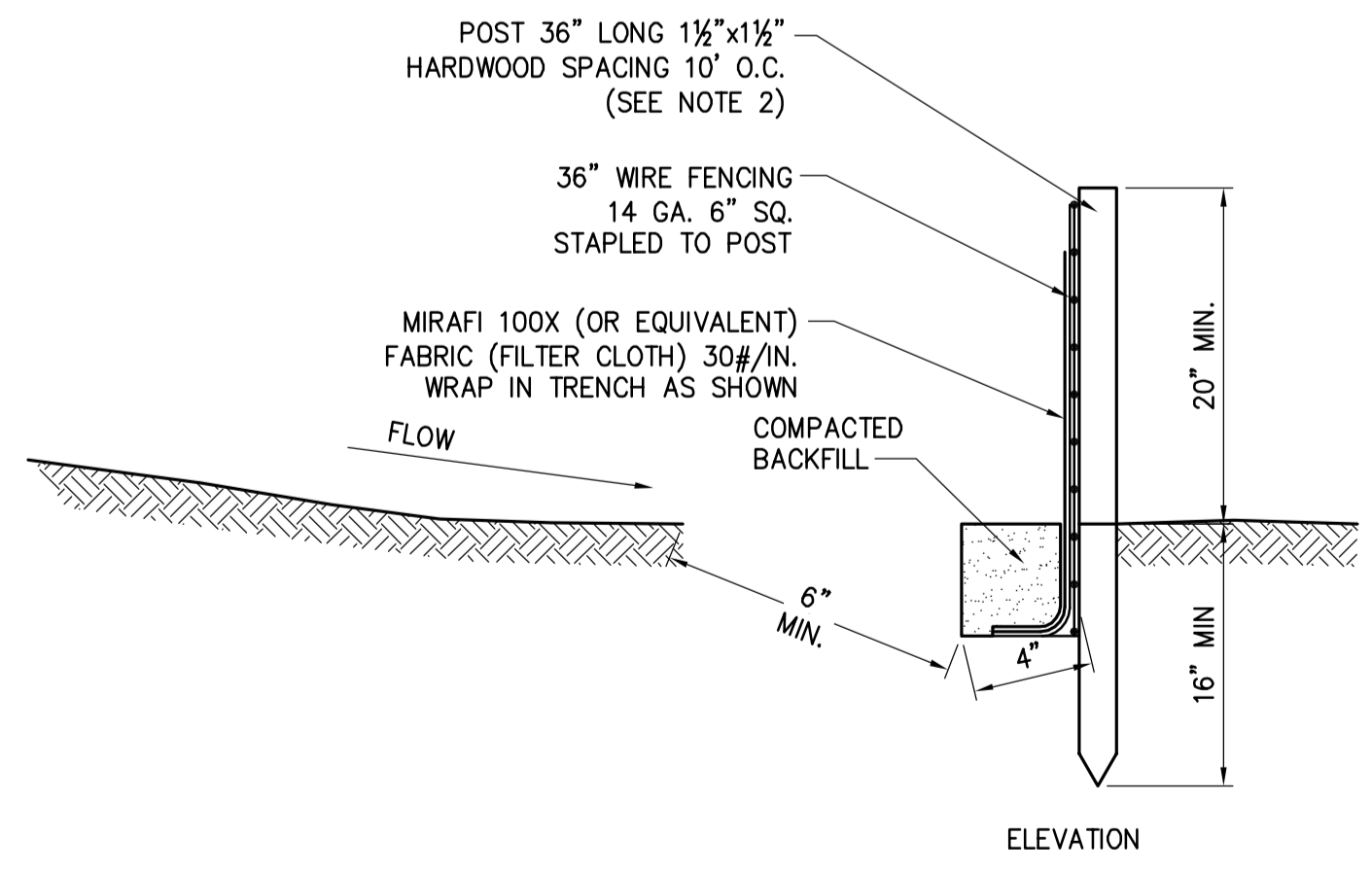
2 VA WATER TOWER LOGO
SCALE: N.T.S.



3 SPLASH BLOCK DETAIL
SCALE: N.T.S.

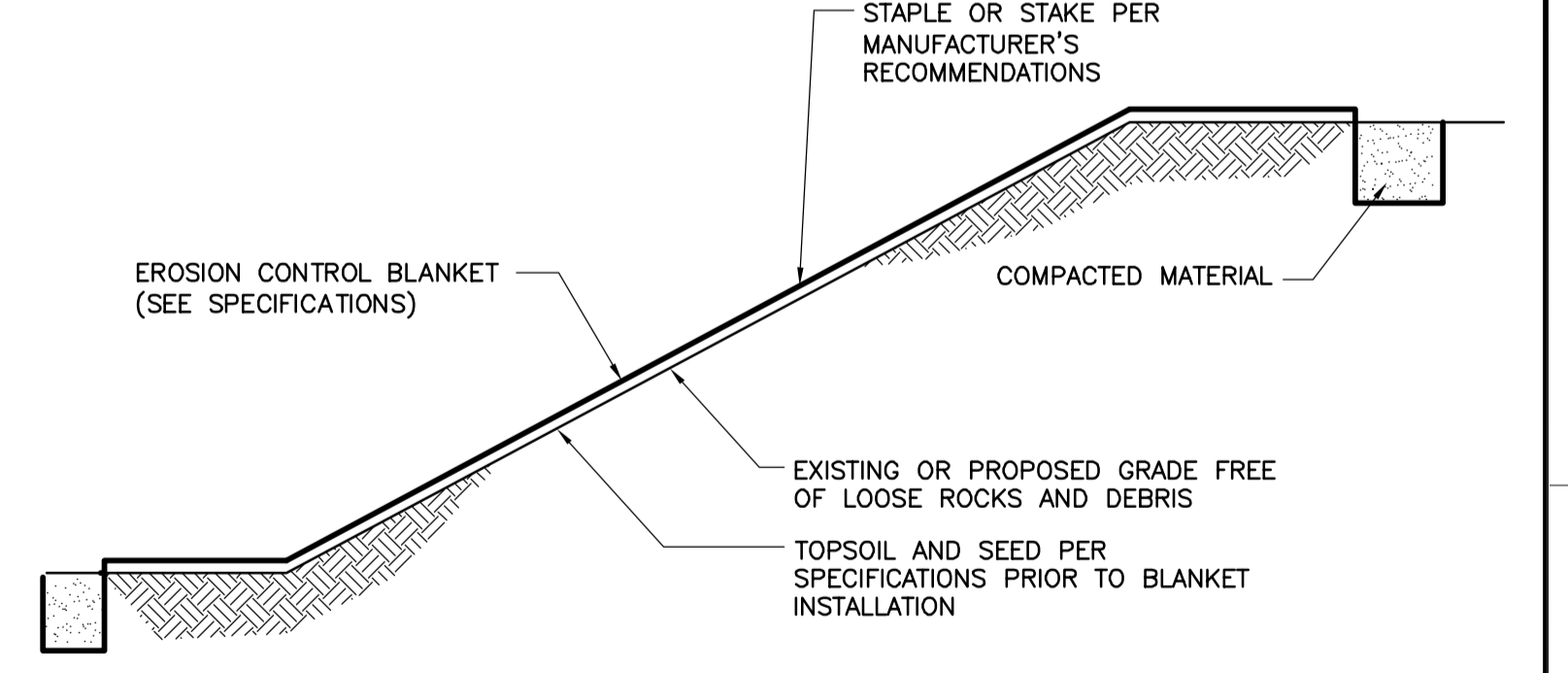


5 OVERFLOW PIPE DETAIL
SCALE: N.T.S.



NOTES:
1. THE FABRIC TO WIRE FENCE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. IF EXTRA STRENGTH FABRIC (GREATER THAN 50#/INCH) IS USED, WIRE CAN BE DELETED IF POST SPACING IS REDUCED TO 6' O.C.
3. AT THE ENDS OF THE FENCING THE FIRST 20' SHALL BE TURNED UP THE SLOPE 2'.
4. POSTS SHOULD BE INCLINED TOWARD THE DIRECTION FLOW CAME FROM.
5. OVERLAP FABRIC A MINIMUM OF 6" AND FOLDED AT JOINTS. ATTACH FILTER FABRIS TO STAKES ALLOWING EXTENSION INTO TRENCH AS SHOWN; SECURE TO STAKES AS NOTED.
6. THE MAXIMUM AREA OF RUNOFF PER 100LF. OF FENCE SHALL NOT EXCEED 0.25 ACRES.
7. MAINTENANCE SHALL BE PERFORMED AS NECESSARY. THE FENCING SHALL BE CHECKED AFTER EVERY STORM TO ENSURE THEIR PROPER FUNCTIONING.
8. WHEN FENCE IS NO LONGER NEEDED, THE ACCUMULATED SILT, THE POSTS AND FABRIC SHALL BE REMOVED AND TRENCH BACK FILLED WITH TOPSOIL AND SEEDED.
9. FENCING SHOULD BE PLACED AS PER DETAIL ON THE DRAWING OR IF NOT SHOWN, 10' BEYOND THE TOE OF THE OF THE SLOPE.
10. EXCAVATE TRENCH AS PER DETAIL AND SET POSTS AT 10' O.C.
11. BACKFILL WITH COMPACTED, EXCAVATED SOIL FROM TRENCH.

9 SILT FENCE
SCALE: N.T.S.



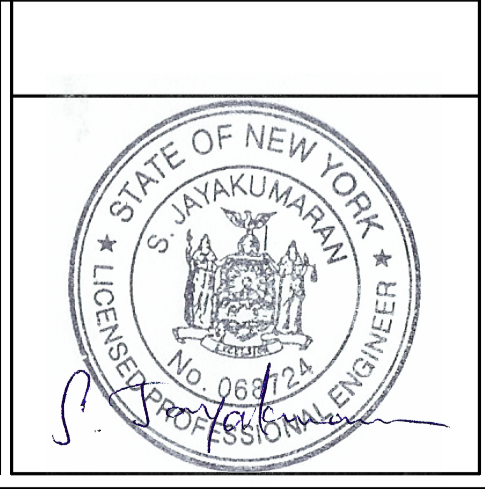
NOTES:
1. USE ON ALL 3:1 SLOPES OR GREATER.

10 EROSION CONTROL BLANKET
SCALE: NONE

100% PRELIMINARY DRAWINGS		12/23/2015
Revisions	Date	

ARCHITECT/ENGINEERS:

SJH ENGINEERING, P.C.
3700 ROUTE 27, SUITE 201, PRINCETON, NJ 08540
732-329-0500 www.sjhteng.com



CONSULTANTS:

CHA
III Winners Circle, PO Box 5269
Albany, NY 12205-0269
518.453.4500 www.chacompanies.com

Drawing Title		
WATER TOWER ELEVATION & DETAILS		
Approved Project Director		
Date	Checked	Drawn
6/29/2016	MBA	SNP

Project Title		Project Number
WATER STORAGE TOWER #54 REHABILITATION FDR CAMPUS VA HUDSON VALLEY HEALTH CARE SYSTEM		620-14-106
Location		Building Number
2094 ALBANY POST ROAD, MONTROSE, NY 10548		WATER TOWER #54 & #54 SITE
Date		Drawing Number
6/29/2016		CU102
Checked		Dwg. 5 of 10
MBA		
SNP		

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot