

SYSTEM OPERATION SEQUENCE:

SOURCE
WELL FEE IS CONTROLLED BY STORAGE TANK LEVEL. WHEN TANK LEVEL DROPS BELOW 80% FULL, WELLS OPERATE. WHEN TANK LEVEL RISES TO 98% FULL, THEN WELL OPERATION CEASES.

DISTRIBUTION
SYSTEM PRESSURE CONTROLS THE DISTRIBUTION CYCLE. WHEN PRESSURE DROPS DOWN TO 60 PSI THEN ADDITIONAL WATER IS NEEDED. BOOSTER PUMP IS TURNED ON. BOOSTER PUMP CONTINUES TO RUN UNTIL ELECTRODE IN THE PRESSURE TANK IS REACHED (SET AT APPROX 66% DEPTH). IF 85 PSI PRESSURE IS NOT ACHIEVED, THEN AIR COMPRESSOR IS ACTIVATED UNTIL THE DESIRED 85 PSI IS REALIZED.

ALTERNATION
THE WELL PUMP PANEL HAS THE CAPABILITY OF ALTERNATING TWO OF THE FOUR WELLS FOR EACH CYCLE. THE BOOSTER PUMP PANEL ALTERNATES THE BOOSTER PUMPS LEAD / LAG.

ALARM
IF ANY CYCLE FAILS TO PERFORM PROPERLY, THEN ALARM IS ACTIVATED.

ALARM CONDITIONS ARE:

INTRUSION
LOW TEMPERATURE
HIGH TEMPERATURE
LOW PRESSURE
PUMP FAILURE
NON-SCHEDULED OF GENERATOR OPERATION
ALL ALARM CONDITIONS ON THE GENERATOR PANEL.

GENERAL NOTES

ALL FOUNDATIONS MUST REST ON UNDISTURBED SOIL OR ON PILES IF REMOVED.

ASSUME SOIL BEARING PRESSURE IS 3000 PSF. IF ASSUMED BEARING PRESSURE CANNOT BE ATTAINED, OWNER TO BE NOTIFIED BEFORE CONSTRUCTION IS COMMENCED.

CONCRETE IS TO BE SPREAD IN LAYERS NOT MORE THAN 6" IN THICKNESS AND THEN COMPACTED TO A RELATIVE COMPACTION OF NOT LESS THAN 95% AS DETERMINED BY THE CURRENT ASTM METHOD OF TEST. 95% MASS COMPACTION APPROVED OR ORDERED BY THE ENGINEER.

DESIGN AND CONSTRUCTION TO CONFORM TO THE 2012-2013 LATEST EDITION.

ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000 PSI.

REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO SPECIFICATION FOR DEFORMED BULLET STEEL BARS FOR CONCRETE REINFORCEMENT ASTM A633 LATEST EDITION.

CONCRETE REINFORCING BARS SHALL BE LAPPED 36 BAR DIAMETERS AT SPACES OR AS NOTED.

ALL EXPOSED EXPOSED TO HAVE 3/4" CHAMFER.

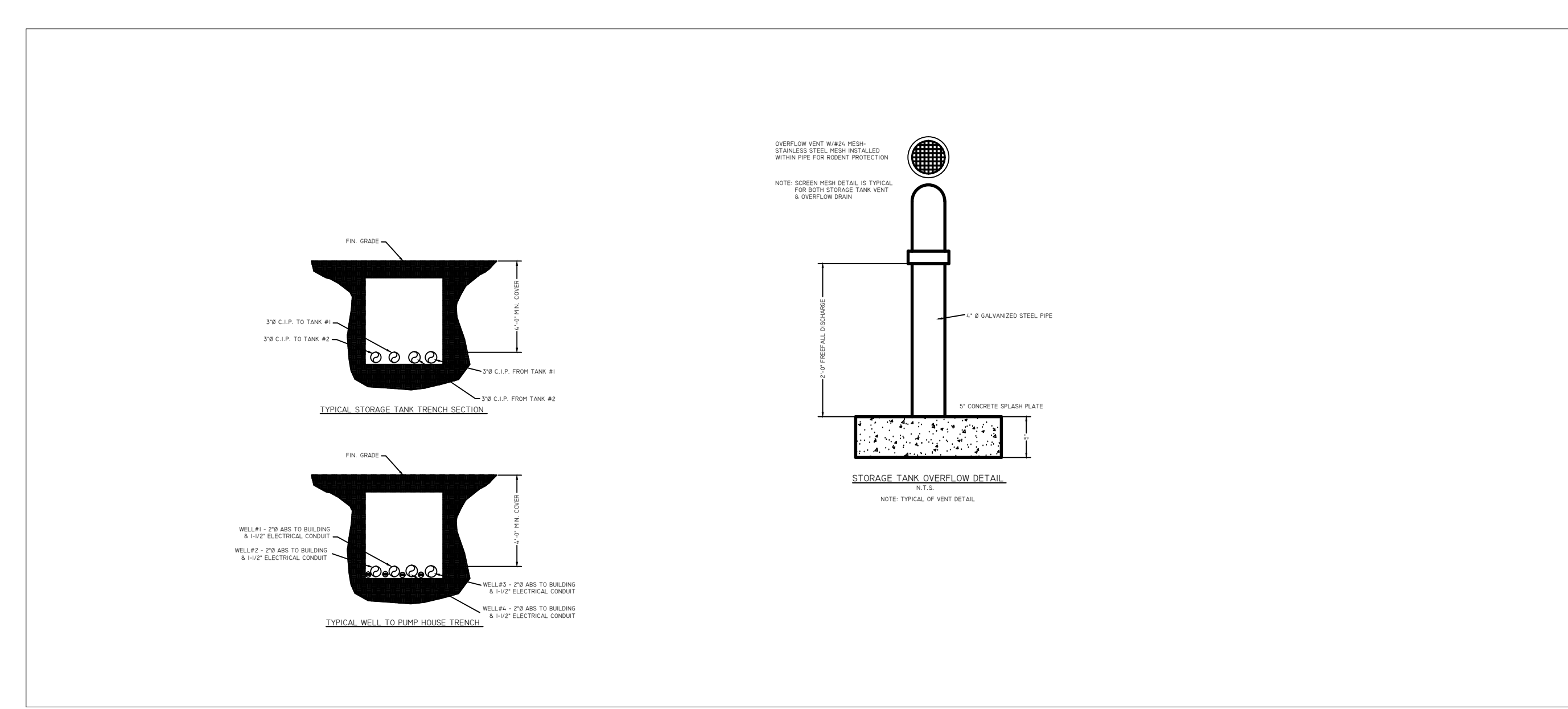
ALL UNEMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, AND PIPING TO BE IN PLACE BEFORE CONCRETE IS POURED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND SHALL NOTIFY (ENGINEER) OF ALL DISCREPANCIES BEFORE STARTING WORK.

COVER OVER REINFORCING NUMBER SHALL BE IN ACCORDANCE WITH LATEST CODES CONCERNING SEWAGE TREATMENT PLANTS.

1/2" OF NO. 1 STEEL IS REQUIRED UNDER ALL FOOTINGS AND FOUNDATIONS ON TOP OF WIND-ERECTED COLOS.

COAL TAR COATING TO BE APPLIED TO ALL EXTERIORS OF TANKS, SEPTIC TANKS, EQUALIZATION CHAMBER AND SEWER MAN HOLES.



UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

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P.E. for Civil Engineering Only

REV	DESCRIPTION	BY	DATE
1	TOWN PLANNER MEMO (7/8/2010) & TOWN ENGINEER MEMO (7/9/2010)	PL	December 29, 2010
2	TOWN PLANNER MEMO (9/9/2011) & TOWN ENGINEER MEMO (9/3/2011)	DPG	February 24, 2012
3	COMPLETENESS SUBMISSION	DPG	July 31, 2012
4	ACCEPTED DRAWING SET	DPG	September 12, 2012
5	RESOLUTION 139-13	PJG	April 22, 2013

ARCHITECTURAL ELEVATIONS & SECTIONS
DRAWN BY: PL CHECKED BY: DC

WATER TREATMENT PLANT
HIGHGATE - WOODLANDS AT NORTH SALEM
REED ROAD AND HARDCRABBLE ROAD
TOWN OF NORTH SALEM
COUNTY OF WESTCHESTER
STATE OF NEW YORK

SCALE: AS NOTED
DATE: NOVEMBER 1, 2005
JOB NUMBER SHEET
WT-2, WTP 2 OF 4