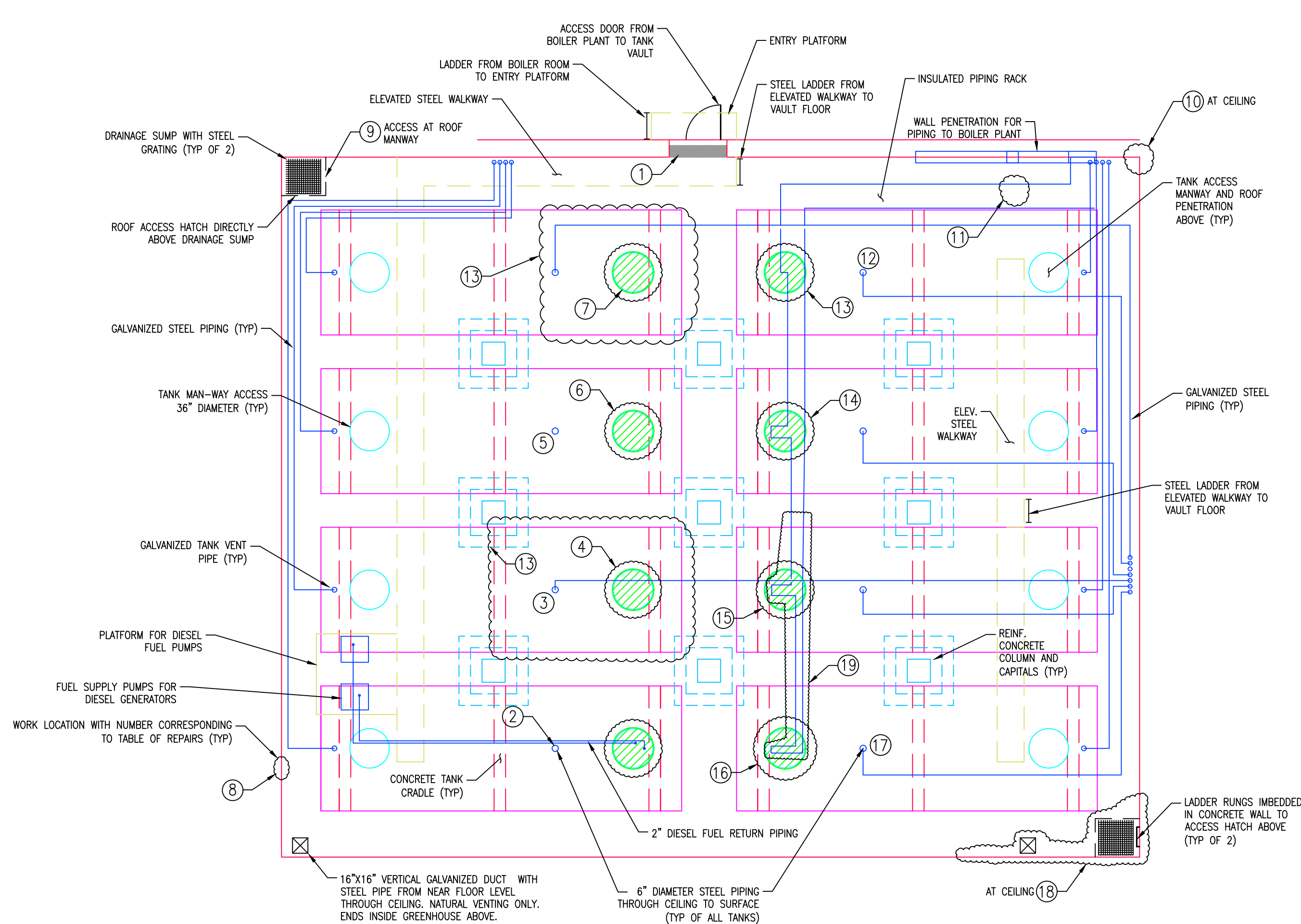


1
SD1
PROJECT LOCATION
SCALE: 1/128"= 1'



2
SD1
CEILING VIEW: EXISTING CONDITIONS
AND PROPOSED WORK INSIDE VAULT
SCALE: 1/8"= 1'

DEFECT NO.	CONDITION/TYPE OF REPAIR	EST. QUANT.	REPAIR DESCRIPTION
①	THE THRESHOLD AT THE ACCESS DOOR FROM THE BOILER ROOM HAS DETERIORATED.	5 LF	GRIND SUBSTRATE SO THAT THE FINISHED SURFACE ELEVATION WILL MATCH EXISTING DOOR FRAME ELEVATION. FILL VOIDS WITH CEMENTITIOUS MATERIAL. ATTACH GALVANIZED, SKID-RESISTANT STEEL PLATE OVER REPAIRED AREA.
②	PATCH ROOF PENETRATION FOR FILL PIPE	+2 SQFT	REMOVE LOOSE CONCRETE AND REPAIR/SEAL WITH CEMENTITIOUS MATERIAL.
③	PATCH ROOF PENETRATION FOR FILL PIPE	+2 SQFT	REMOVE LOOSE CONCRETE. CLEAN AREA AND REPAIR/SEAL WITH CEMENTITIOUS MATERIAL.
④	SPALLING AND EXPOSED REINFORCING STEEL AROUND ACCESS COVER	+12 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE ON INSIDE OF VAULT. SEE ALSO DETAIL 1/SD2, APPLICABLE TO OTHER FRAME AS WELL. REMOVE AND REPLACE CORRODED REINFORCING STEEL PER NOTES 1/SD-2. CLEAN ANY REMAINING EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑤	REMOVE UNUSED FILL PIPE	+4 SQFT	REMOVE UNUSED STEEL PIPE. TANK IS NO LONGER IN USE AND THE PIPE HAS BEEN CUT NEAR THE ROOF LINE. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑥	MINOR SPALLING AROUND FRAME.	+3 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑦	MINOR SPALLING AROUND FRAME.	+1 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑧	STEEL PIPE CHASE, PARTIALLY FILLED. NEEDS TO BE SEALED.	+9 SQFT	PIPES ARE CUT AT WALL. CUT PIPES GREATER THAN 6" INTO THE WALL. CLEAN OUTSIDE OF PIPE. CLEAN REINFORCING STEEL AND REPLACE WHERE NEEDED. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑨	SPALLING AROUND AROUND MANWAY HATCH	+8 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑩	SPALLING AND LEAKAGE AT INTERFACE OF TANK VAULT WALL AND BOILER PLANT WALL	+40 SQFT	REMOVE LOOSE CONCRETE AND CLEAN. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑪	DEFECT IN ROOF POUR LEFT EXPOSED REINFORCING STEEL	+3 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑫	PATCH ROOF PENETRATION FOR FILL PIPE	+2 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑬	PORTIONS OF TANKS 1, 2 AND 5 (INCLUDING RISERS AND LIDS) HAVE RUSTED DUE TO LEAKAGE FROM ABOVE	+400 SQFT	CLEAN PORTIONS OF STEEL TANKS AND ACCESS LIDS. RE-PAINT WITH TOP COAT BEING BLACK WITH FLAT FINISH. NOTE SAFETY REQUIREMENTS FOR THIS WORK.
⑭	SPALLING AROUND AROUND MANWAY HATCH	+10 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL SMOOTH WITH CEMENTITIOUS MATERIAL.
⑮	SPALLING AROUND AROUND MANWAY HATCH	+20 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑯	SPALLING AROUND AROUND MANWAY HATCH	+10 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑰	PATCH ROOF PENETRATION FOR FILL PIPE	+2 SQFT	REMOVE SPALLING AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. FILL VOID SMOOTH WITH CEMENTITIOUS MATERIAL.
⑱	SPALLING AROUND AROUND MANWAY HATCH, VENT	+70 SQFT	REMOVE ALL SPALLED AND/OR LOOSE CONCRETE. CLEAN REMAINING CONCRETE AND EXPOSED REINFORCING STEEL. SEE ALSO SHEET SD2 FOR WORK RELATED TO HATCH ON THE TOPSIDE. FILL VOIDS SMOOTH WITH CEMENTITIOUS MATERIAL.
⑲	PIPE INSULATION DAMAGED AT TANKS 6 AND 8	+70 LF	REMOVE DAMAGED INSULATION (FOIL FACE FIBERGLASS) WRAPPED AROUND PIPES. REPLACE WITH FIBERGLASS PIPE COVERING WITH FACTORY APPLIED ALL-SERVICE JACKET VAPOR BARRIER AND SELF-SEALING LAPS TO A POINT BETWEEN TANKS 6 AND 8. LEAVE NO EXPOSED PIPE.

NOTE: SEE DETAILS FOR ADDITIONAL INFORMATION ON REPAIRS.

3
SD1
TABLE 1: PROPOSED REPAIRS INSIDE VAULT
SCALE: NONE

CONSULTANTS:

ARCHITECT/ENGINEERS:

ALBANY STRATTON VAMC
FMS DESIGN TEAM

Drawing Title

TANK VAULT INTERIOR

Project Title

TANK VAULT REPAIRS

Project Number

528A8-17-802

Building Number

BLDG. 4

Drawing Number

SD-1

Dwg. 1 of 3

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

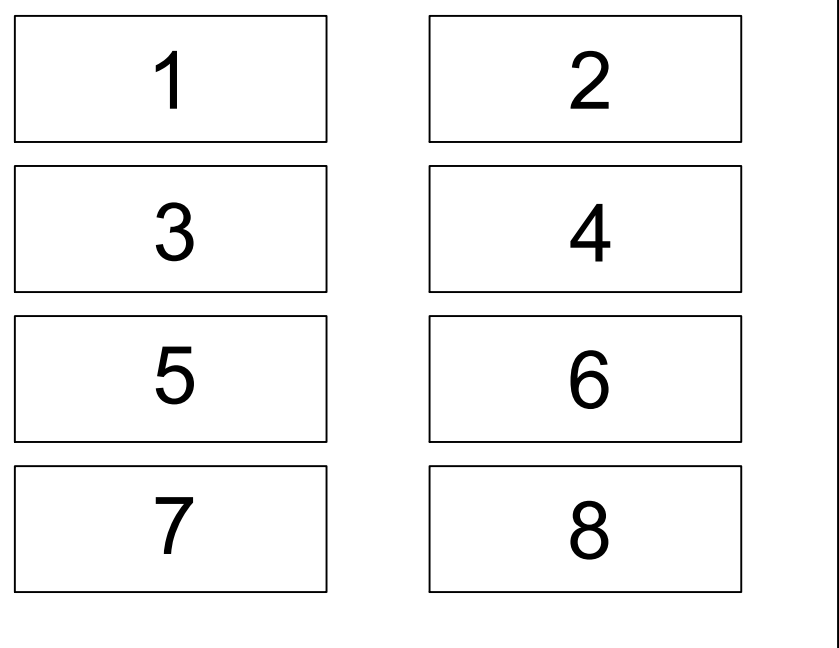
INTERIOR REPAIR NOTES:

- REPLACEMENT PIPE INSULATION SHALL BE PRE-FORMED FIBERGLASS BONDED WITH A THERMOSETTING RESIN. INSTALLATION TO INCLUDE VAPOR RETARDER AND ALL-SERVICE JACKETS WITH SELF-SEALING TABS. ALTERNATIVE MATERIALS MAY BE USED WITH THE WRITTEN PERMISSION OF THE COR.
- MINIMUM PIPE INSULATION THICKNESS SHALL BE 1.5".
- THE EXISTING COATING MATERIAL ON THE PETROLEUM STORAGE TANKS HAS BEEN TESTED BY THE VA FOR THE PRESENCE/ABSENCE OF LEAD. THE SAMPLE RESULTS HAVE CONFIRMED THE PRESENCE OF LEAD IN AMOUNTS THAT DO NOT QUALIFY THE COATING AS BEING LEAD-BASED PAINT, BUT DO REQUIRE STEPS TO BE TAKEN THAT WILL MINIMIZE THE EXPOSURE TO THOSE WORKING IN THE SPACE AS WELL AS VA STAFF.
- METAL SURFACES TO BE RE-COATED SHALL BE CLEANED TO THE SOCIETY FOR PROTECTIVE COATINGS (SSPC), STANDARD SP-3 (POWER TOOL) OR BETTER. SURFACES TO BE CLEANED AT LEAST 6 INCHES BEYOND THE AREA REQUIRING CLEANING IN ALL DIRECTIONS WHERE POSSIBLE. NEW COATING TO BE FEATHERED OVER OLD COATING AT LEAST 6 INCHES IN ALL DIRECTIONS WHERE POSSIBLE.
- CONTRACTOR SHALL TEST THE ATMOSPHERE IN THE VAULT USING AN EXPLOSIVE GAS METER PRIOR TO STARTING ANY TASK THAT MAY PRODUCE A SPARK, SUCH AS CLEANING THE STEEL STORAGE TANKS IN PREPARATION FOR PAINT. WORK SHALL NOT COMMENCE IF THE METER INDICATES THAT EXPLOSIVE GASES IN THE ATMOSPHERE EXCEED 10% OF THE LOWER EXPLOSIVE LIMIT (LEL). THE CONTRACTOR SHALL VENT THE WORK AREA UNTIL THE METER INDICATES THAT EXPLOSIVE GASES ARE BELOW THE 10% LEL THRESHOLD. ATMOSPHERIC TESTING SHALL CONTINUE DURING THE POTENTIALLY SPARK-PRODUCING TASK IN ACCORDANCE WITH OSHA REGULATIONS. WORK SHALL CEASE IMMEDIATELY AND VENTING OPERATIONS BEGIN IF THE 10% LEL THRESHOLD IS EXCEEDED.
- SURFACES TO BE RE-COATED SHALL BE FULLY COVERED ON EACH COAT APPLIED. HOLIDAYS, SKIPS, RUNS, DRIPS OR AREAS WHERE SUBSTRATE IS VISIBLE WILL NOT BE CONSIDERED ACCEPTABLE AND SHALL BE RE-COATED TO THE SATISFACTION OF THE COR AT NO COST TO THE VA.
- THE MINIMUM NUMBER OF COATS SHALL BE:
 - PRIME COAT- COLOR WHITE OR GRAY
 - BODY COAT- SAME MATERIAL AS FINISH COAT, COLOR BLACK FOR TANKS, MATCH EXISTING COLOR IN OTHER LOCATIONS.
 - FINISH COAT- COLOR BLACK FOR TANKS, MATCH EXISTING COLOR IN OTHER LOCATIONS.
- THE STEEL PLATE AT THE VAULT DOOR THRESHOLD SHALL BE GALVANIZED STEEL PLATE WITH A DIAMOND PATTERN ON THE TOP SIDE OR EQUIVALENT SKID-RESISTANT SURFACE ACCEPTABLE TO THE COR. MINIMUM THICKNESS SHALL BE 3/16" (0.125"). ANCHORING OF THE STEEL TO THE CEMENTITIOUS SUBSTRATE SHALL NOT PRESENT A TRIPPING HAZARD.

GENERAL ROOM NOTES:

THE FOLLOWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

- THE EXTERIOR WALLS ARE 18" THICK REINFORCED CONCRETE AND THE ROOF IS A 6" THICK REINFORCED CONCRETE STRUCTURAL SLAB WITH 3" CONCRETE TOPPING. COLUMNS ARE ALSO REINFORCED CONCRETE.
- FLOOR TO CEILING ±19'-4". TOP OF TANKS TO CEILING ±7'-7". THE ELEVATED STEEL WALKWAYS ARE ±12' ABOVE THE FLOOR.
- ALL TANKS ARE ASPHALTIC COATED STEEL, NOMINAL 20,000 GALLONS AND CONTAIN:
 - TANK 1: #2 FUEL OIL
 - TANK 2: #2 FUEL OIL
 - TANK 3: OUT OF SERVICE - EMPTY
 - TANK 4: #4 FUEL OIL
 - TANK 5: #2 FUEL OIL
 - TANK 6: #4 FUEL OIL
 - TANK 7: LOW SULFUR DIESEL FUEL FOR GENERATORS
 - TANK 8: #4 FUEL OIL



4
SD1
EXISTING TANK ARRANGEMENT
SCALE: NOT TO SCALE

Approved By:

Engineering Manager	Safety Manager
Interior Design	Police Chief
Infection Control	Energy Manager
O/M Manager	GEMS Coordinator