

8" NOT TO SCALE

BEFORE ENTERING

A high carbon dioxide gas (CO2) concentration in this area can cause suffocation.

CO2 MONITORING AREA NOTICE

Carbon dioxide monitors for general area monitoring (not employee personal exposure monitoring) are provided in this area. These monitors are set to alarm at 1.5% concentration (15,000ppm) for the low level alarm and 3% concentration (30,000ppm) for the high level alarm.

LOW LEVEL ALARM (1.5% CO2) - Provide appropriate cross ventilation to the area. Personnel may enter area for short periods of time (not to exceed 15 minutes at a time) in order to identify and repair potential leaks.

HIGH LEVEL ALARM (3% CO2) - Personnel should evacuate the area and no one should enter the affected area without proper self-contained breathing apparatus until the area is adequately ventilated and the concentration of CO2 is reduced below the high alarm limit.

CO2 SIGN DETAIL

SERVICE DOOR.

WARNING SIGN IN ACCORDANCE WITH NFPA55, SECTION 13.2.3.1 STATING "CAUTION CARBON DIOXIDE GAS. VENTILATE THE AREA BEFORE ENTERING. A HIGH CARBON DIOXIDE (CO2) GAS CONCENTRATION IN THIS AREA CAN CAUSE SUFFOCATION." SIGN MUST BE AT 8"x6" MOUNTED AT REAR

INSTALL STROBE/ALARM ON DOUBLE GANG JUNCTION BOX AT WALL HEIGHT BETWEEN 80" AND 96" AFF.

POWER SUPPLY, MOUNT DIRECTLY TO ELECTRICAL JUNCTION BOX WITH EASY ACCESS FOR MONTHLY SYSTEM CHECK.

PROVIDE 3/4" CONDUIT FOR **ROUTING OF WIRES TYPICAL**

SENSOR TO BE LOCATED WITHIN — 10 FEET OF C02 TANK AND 12 INCHES FROM THE FLOOR CABLE EMERGING DOWNWARD.

FLOOR

6" HIGH CONCRETE PAD REFER TO FLOOR PLAN FOR DIMENSIONS



SEQUENCE OF OPERATIONS:

- 1. CO2 SENSOR SHALL BE CAPABLE OF TWO TIER DETECTION (15,000 PPM AND 30,000 PPM)
- 2. AT THE LOWER LEVEL, THE SYSTEM SHALL PROVIDE A LOCAL WARNING / SUPERVISORY SIGNAL WITH VISIBLE AND AUDIBLE INDICATION.
- 3. AT THE HIGHER LEVEL, CO2 SENSOR DETECTS CO2 WHICH PROVIDES AN EVACUATION SIGNAL WITH VISIBLE AND AUDIBLE
- 4. IF THERE IS A FIRE ALARM SYSTEM, CONNECT IN ACCORDANCE WITH THE FIRE ALARM MANAGER. EMERGENCY PLAN WILL BE INITIATED BY THE STAFF.

REQUIRED TESTING:

1. INSTALLING CONTRACTOR SHALL TEST THE DETECTOR IN ACCORDANCE WITH THE MANUFACTURERS TESTING REQUIREMENTS TO VERIFY DETECTOR AND ALARMS ARE IN PROPER OPERATING ORDER.

GENERAL NOTES:

- 1. INSTALLATION SHALL BE IN COMPLIANCE WITH NFPA 55 CHAPTER 13 AND INTERNATIONAL FIRE CODE, CHAPTERS 50 AND 53 AND NEW YORK CITY AND NEW YORK STATE CODES.
- 2. PIPING AND FITTINGS TO BE LOCATED AND SUPPORTED TO PROTECT AGAINST DAMAGE.
- 3. THE GAS DETECTION AND ALARM SYSTEMS SHALL BE INSTALLED, INSPECTED, TESTED, CALIBRATED AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS OR AT A MINIMUM ANNUALLY.
- 4. PROVIDE EMERGENCY POWER BACK UP FOR THE CO2 DETECTOR TO AVOID NUISANCE TRIPS DUE TO POWER OUTAGES OR AUTOMATIC RESTART OF SYSTEMS.

MECHANICAL KEYED NOTES:

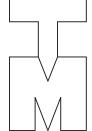
- CO2 TANK, CHART INC. CARBO-MIZER 450 OR EQUIVALENT. TANK SHALL BE IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. TANK MUST COMPLY WITH CHAPTER 50 AND 53 OF THE CFC. PROVIDE EMERGENCY SHUTOFF VALVE TAG ON SUPPLY LINE AND REQUIRED SIGNAGE PER NFPA REQUIREMENTS. VENT RELIEF PIPING A MINIMUM OF 10' FROM OPENINGS INTO BUILDING.
- EMERGENCY PROCEDURES LOCATION.
- SUPPLY PIPING, FLEX-TECH PEB FDA/NSF-51 POLYETHYLENE BEVERAGE HOSE. LABEL PIPING A MINIMUM OF EVERY 20' WITH PRODUCT DESCRIPTION AND FLOW DIRECTION. PROVIDE SLEEVE FOR OUTSIDE INSTALLATION. PIPING MUST COMPLY WITH LOCAL FIRE CODES AND ASME A13.1.
- CARBONATOR UNIT BY SODA SUPPLIER
- CO2 DETECTOR/SENSOR KIT, LOGICO2 MK9 OR EQUIVALENT, COMPLETE WITH NECESSARY CONTACTS FOR COMMUNICATION FIRE ALARM (AS APPLICABLE). CONTRACTOR TO INSURE COMPLIANCE. INSTALL UNIT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS WITHIN 12" AFF.
- AUDIBLE/VISUAL ALARM LOCATION. MOUNT ON WALL BETWEEN 80" AND 96" AFF. IN A VISIBLE LOCATION.
- WARNING SIGN IN ACCORDANCE WITH NFPA55, SECTION 13.2.3.1 STATING "CAUTION CARBON DIOXIDE GAS. VENTILATE THE AREA BEFORE ENTERING. A HIGH CARBON DIOXIDE (CO2) GAS CONCENTRATION IN THIS AREA CAN CAUSE SUFFOCATION." SIGN MUST BE AT 8"x6" MOUNTED AT REAR SERVICE DOOR.
- CARBON MONOXIDE (CO) DETECTOR TO BE MOUNTED AT FINISHED CEILING AT BEVERAGE RAC PER STATE BUILDING



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REG. No. 51,321 Lic. No. 10159 **NEW JERSEY** NORTH CAROLINA NEW HAMPSHIRE

Lic. No. 9536 Lic. No. 4390

REV.	DATE	DESCRIPTION
	23 Aug 2021	Final Owner, Landlord Review & G.C. Bid
	30 June 2021	5 Guys Design Ticket Review - Revised 2
	24 June 2021	5 Guys Design Ticket Review

PROJECT: FIVE GUYS BURGERS & FRIES PALMERONE PLAZA TENANT SPACE C UNION AVENUE (ROUTE 300) NEWBURGH, NEW YORK 12550 FIVE GUYS STORE #1090

12 June 2021 Existing Plan / Proposed New Layout

DRAWING TITLE:

FLOOR PLAN - CO2 FIRE ALARM SYSTEM DETAILS

PROJECT No: DRAWN BY: -CHECKED BY:

RA / PE SEAL:

OF SHEETS

STANDARD COLLECTION LINE

- 1. ATTACH A 2" PIPE TO THE EVACUATION TUBE LOCATED AT THE CENTER OF THE TANK TO BEGIN TO PLUMB INTO THE CEILING.
- 2. PLUMB TO THE EXTERIOR WALL AND DEPENDING ON THE TANK DIAMETER AND DISTANCE THE TANK SITS FROM THE WALL, DETERMINE THE LENGTH OF PIPE NEEDED FROM THE 2" ELBOW ON TOP OF THE EVACUATION TUBE TO THE WALL. 3. BUILD A "P" TRAP. USING 2" ELBOWS, AND SHORT 2" NIPPLES, BUILD A "P" TRAP TO COLLECT ANY RESIDUAL OIL AND TO ELIMINATE OIL SPILLS WHEN THE CAP IS REMOVED FROM THE BUILDING EXTERIOR.
- 4. MAKE THE HOLE THROUGH THE EXTERIOR WALL, AND INSTALL THE PIPE,
- FITTINGS, AND PIPE CLAMP TO COMPLETE THE COLLECTION PORT ASSEMBLY. 5. SECURE THE PLUMBING TO THE WALL. USING EITHER STAND-OFF CLAMPS OR STRAPS, SECURE THE PLUMBING TO THE WALL TO SUPPORT THE WEIGHT OF THE PLUMBING.

COLLECTION LINE PLUMBED INTO CEILING

- 1. ATTACH A 2" PIPE TO THE EVACUATION TUBE LOCATED AT THE CENTER OF THE TANK TO BEGIN TO PLUMB INTO THE CEILING.
- 2. PLUMB TO AN EXTERIOR WALL: • RUN THE 2" LINE INTO THE CEILING, AND PLUMB TO AN
- EXTERIOR WALL USING 2" PIPE OR 2" HOT OIL HOSE. • SLOPE THIS BACK TOWARDS THE TANK, SO ANY RESIDUAL OIL WILL DRAIN BACK INTO THE TANK.
- 3. PLUMB OUT OF THE CEILING. BRING THE 2" LINE DOWN FROM THE
- CEILING TO THE DESIRED COLLECTION PORT HEIGHT.
- 4. BUILD A "P" TRAP, USING 2" ELBOWS, AND SHORT 2" NIPPLES TO COLLECT ANY RESIDUAL OIL AND TO ELIMINATE OIL SPILLS WHEN
- THE CAP IS REMOVED FROM THE BUILDING EXTERIOR. 5. MAKE THE HOLE THROUGH THE EXTERIOR WALL, AND INSTALL THE PIPE, FITTINGS, AND PIPE CLAMP TO COMPLETE THE COLLECTION PORT ASSEMBLY.

UNIT PLACEMENT

ELECTRICAL CONNECTION

CONNECTION:

READ THIS SECTION FOR INFORMATION ABOUT HOW TO COMPLETE

ELECTRICAL CONNECTIONS AS ONE OF THE FOLLOWING:

STORAGE TANK INTO A 120V 15AMP OUTLET.

COMPLETE THESE STEPS TO MAKE A STANDARD ELECTRICAL

2. BE SURE THAT THE GREEN POWER LIGHT COMES ON AND

REMAINS LIT. NO OTHER LIGHTS SHOULD BE LIT AT THIS TIME.

READ THIS SECTION FOR IMPORTANT INFORMATION ABOUT UNIT PLACEMENT. FOLLOW THESE DIRECTIONS CONCERNING UNIT PLACEMENT:

• THE INSTALLER SHOULD CONFIRM WITH THE RESTAURANT 1. IF THE CONTROL PANEL IS MOUNTED TO THE TANK, PLUG THE MANAGER/OWNER THE LOCATION FOR THE STORAGE TANK.

INSTALLATION OF THE OUTLET PIPE.

- KEEP A 25" WIDE BY 25" DEEP AREA THAT IS REQUIRED FOR THE INSTALLATION OF THE STORAGE TANK.
- EXTERIOR WALL CONSIDERATION BE SURE THE UNIT CAN BE PLACED AGAINST AN EXTERIOR WALL. IF NOT, EXTRA PIPING
- IS REQUIRED TO COMPLETE THE OUTLET INSTALLATION. • CONSIDER THE RELATIONSHIP OF THE STORAGE TANK TO THE FRYER.
- OUTSIDE OBSTRUCTION CONSIDERATION NOTE ANY OBSTRUCTIONS ON THE OUTSIDE OF THE WALL THAT WILL
- OBSTRUCT INSTALLATION OF THE OUTLET PIPE. WALL OBSTRUCTION CONSIDERATION - NOTE ANY OBSTRUCTIONS INSIDE THE WALL THAT WILL PREVENT

2478SQ-NA-DP MODEL SPECIFICATIONS

- HEAVY GAUGE STAINLESS STEEL EXTERIOR (SIDES, BOTTOM AND LEGS) • FREE STANDING, 24 IN. (609 MM) SQUARE X 78 IN. (1981 MM) HEIGHT
- STAINLESS STEEL TANK BOTTOM AND LEGS • 6 IN. (152 MM) HIGH STAINLESS STEEL LEGS AND FLOOR CLEARANCE
- TANK CAPACITY 1100LB/150GAL (499KG/567.8 L)
- CONTROL PANEL WITH POWER INDICATION OR DIGITAL READER LEVEL INDICATORS WITH SAFETY OVERFLOW PROTECTION
- UL, UL SANITATION (NSF) LISTED (US AND CANADA)
- SUITABLE FOR DIRECT-PLUMBED®, REMOTE-PLUMBED® OR CADDY SYSTEMS

WASTE SYSTEM ROUGH IN NOTES

IN ORDER TO INSTALL THE WASTE OIL RECYCLING TANK PROPERLY AND ECONOMICALLY THE FOLLOWING ROUGH-IN REQUIREMENTS ARE MANDATORY AND THE RESPONSIBILITY OF THE CONTRACTOR TO BE COMPLETED PRIOR TO THE INSTALLER ARRIVAL.

1. WASTE OIL LINE – 3/4" BLACK PIPE INSTALLED DIRECTLY CENTERED BEHIND FRYERS 18" ABOVE GRADE, STUBBED OUT 2" UP INTO THE FRYER WALL UP ABOVE CEILING LINE 24" AND PITCHED 1/2" PER FOOT TO THE TANK; USE LONG SWEEP 90° OR BACK TO BACK 45° ON ALL BENDS (PER DRAWING)

> A) OUTSIDE ENCLOSURE – WASTE OIL PIPE AT OUTSIDE TANK LOCATION NEEDS TO BE AT 72" ABOVE OUTSIDE GRADE, STUBBED OUT 2" AND 24" OFF ANY CORNERS (PER DRAWING)

B) INTERIOR TANK – WASTE OIL PIPE SHOULD BE RUN TANK LOCATION 16" OFF WALLS OR 24" OFF CORNERS (PER DRAWING)

2. ELECTRICAL SUPPLY – AT TANK LOCATION INSTALL A 120 VOLT 15 AMP DEDICATED CIRCUIT, W/ GFI OUTLET RATED FOR PUMP AND

> A) OUTSIDE ENCLOSURE - REQUIRES DEDICATED CIRCUIT IN A WEATHER TIGHT BOX INSTALLED 72" ABOVE OUTSIDE GRADE 6" EITHER SIDE OF OIL LINE. (PER DRAWING)

B) INTERIOR TANK – INSTALL DEDICATED CIRCUIT AT TANK 88" A.F.F.

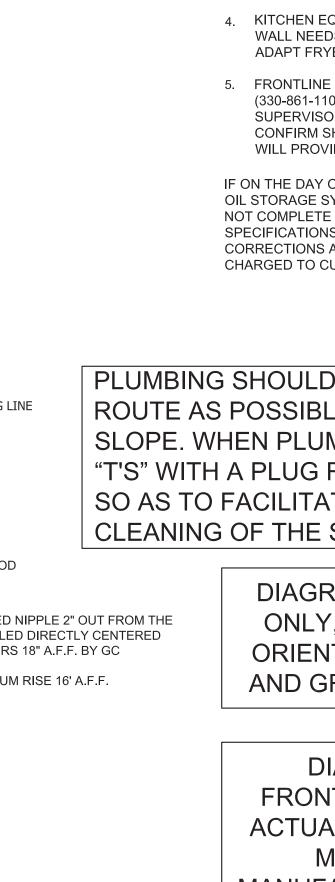
- 3. OUTSIDE SERVICE AREA FOR TANK LOCATION SHOULD BE COMPLETE; CONCRETE PAD POURED, WALLS PAINTED AND EXTERIOR BUILDING WALL FINISHED
- 4. KITCHEN EQUIPMENT, FRYERS AND STAINLESS STEEL ON FRYER WALL NEEDS TO BE IN PLACE IN ORDER FOR INSTALLER TO ADAPT FRYERS AND CONNECT TO SYSTEM
- 5. FRONTLINE INTERNATIONAL VENDOR GIOVANNI BRIENZA (330-861-1100) WILL MAINTAIN VERBAL COMMUNICATION WITH SITE SUPERVISORS TO VERIFY CONSTRUCTION IS ON SCHEDULE AND CONFIRM SHIPPING & INSTALLATION DATES. DIRECT-CONNECTION WILL PROVIDE TECHNICAL SUPPORT IF NEEDED.

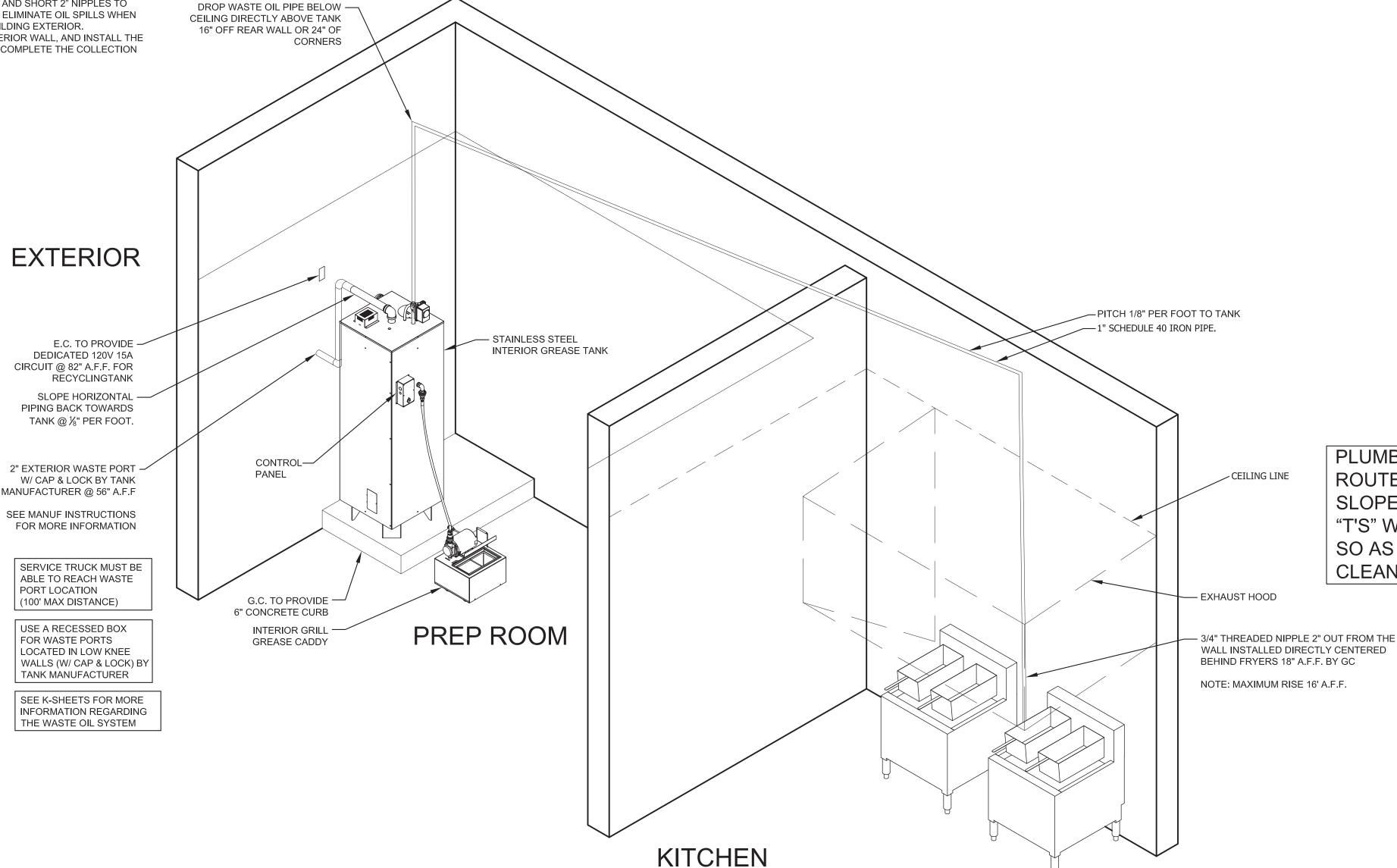
IF ON THE DAY OF THE CONFIRMED INSTALLATION OF THE WASTE OIL STORAGE SYSTEM ANY OF THE ROUGH-IN REQUIREMENTS ARE NOT COMPLETE OR NEED MODIFICATION TO MEET INDICATED SPECIFICATIONS AND INSTALLER IS REQUIRED TO MAKE CORRECTIONS ANY ADDITIONAL INCURRED COSTS WILL BE BACK CHARGED TO CUSTOMER.

PLUMBING SHOULD FOLLOW AS DIRECT A ROUTE AS POSSIBLE AND ALWAYS OBSERVE SLOPE. WHEN PLUMBING IS ACCESSIBLE, USE "T'S" WITH A PLUG RATHER THAN 90° ELBOWS SO AS TO FACILITATE THE DRAINING OR CLEANING OF THE SYSTEM.

> DIAGRAMATIC REPRESENTATION ONLY, SEE PLAN FOR CORRECT ORIENTATION OF EXHAUST HOOD AND GREASE RECYCLING SYSTEM

DIAGRAM BASED OFF OF FRONTLINE WASTE OIL SYSTEM. ACTUAL SYSTEM CONFIGURATION MAY DIFFER. CONSULT MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION PROCEDURES & REQUIREMENTS FOR ORDERED **EQUIPMENT. COORDINATE ANY** CHANGES WITH ALL TRADES.







WASTE OIL RECYCLING SYSTEM - INTERIOR TANK

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DRAWING TITLE

WASTE OIL RECYCLE SYSTEM INTERIOR TANK

PROJECT No: DRAWN BY: CHECKED BY:

RA / PE SEAL:

MPE-2

OF SHEETS