WATER LINE WHEN BEDDED WITH FUEL LINE OR ELECTRICAL PIPING THE FOLLOWING SHALL APPLY:

1. FITTINGS SHALL BE MANUFACTURED FROM A HDPE, SDR-11 (HIGH DENSITY POLYETHYLENE) COMPOUND PER ANSI B-16.40, ASTM D2513 DOT PART 192 AND MANUFACTURED IN ACCORDANCE WITH ISO 9002. ALL FITTINGS SHALL BE PRODUCED TO SCHEDULE 80 DIMENSIONS. PRODUCTS SHALL BE PRESSURE RATED FOR A MINIMUM OF 160 PSI USING QUALITY ASSURANCE TEST REQUIREMENTS OF THESE STANDARDS WITH REGARD TO DIMENSIONS, WORKMANSHIP, BURST PRESSURE, FLATTENING RESISTANCE AND END PRODUCT QUALITY. ALL VALVE DIAPHRAGMS AND SEATS SHALL BE PTFE; VALVE O-RINGS SHALL BE EPDM OR VITON® AS APPLICABLE. ALL VALVE UNION NUTS SHALL HAVE BUTTRESS STYLE THREADS. ALL VALVE COMPONENTS SHALL BE REPLACEABLE. ALL SYSTEM COMPONENTS SHALL BE MANUFACTURED BY AN ISO CERTIFIED MANUFACTURER.

2. HDPE SDR 17 PIPE MATERIAL USED FOR THE MANUFACTURING OF POLYETHYLENE PIPE SHALL BE PE 3408 HIGH DENSITY POLYETHYLENE (HDPE), MEETING THE ASTM D3350 CELL CLASSIFICATION 345464C. POLYETHYLENE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C906, CONSISTENTLY MEETING AND/OR EXCEEDING THE QUALITY ASSURANCE TEST REQUIREMENTS OF THIS STANDARD WITH REGARD TO PRESSURE RATING, MATERIAL, WORKMANSHIP, BURST PRESSURE, FLATTENING, IMPACT RESISTANCE, AND EXTRUSION QUALITY. PRESSURE RATINGS FOR SDR-17 PIPE SHALL BE A MINIMUM OF 100 PSI (PE3408) OR 125 PSI (PE4710) FOR PIPE SIZES 4" TO 14", IPS (IRON PIPE SIZE). THE PIPE SHALL BE MANUFACTURED IN THE USA, USING DOMESTIC MATERIALS, BY A CERTIFIED HDPE MANUFACTURER. ALL PIPES SHALL BE STORED INDOORS AFTER PRODUCTION AT THE MANUFACTURING SITE UNTIL SHIPPED FROM FACTORY.

3. BUTT FUSION SHALL BE USED TO JOIN INDIVIDUAL LENGTHS OF PIPE IN THE FOLLOWING SEQUENCE.
   A. SECURE COMPONENTS TO BE JOINED WITH CLAMPING DEVICE(S).
   B. FACE PIPE ENDS TO MEET MANUFACTURERS SPECIFICATIONS, USING A ROTATING PLANNER BLOCK.
   C. PROPERLY ALIGN PIPE.
   D. HEAT ENDS OF PIPE TO MANUFACTURER'S RECOMMENDATION AND BRING TOGETHER AT RECOMMENDED FORCE USING A HYDRAULIC MACHINE THAT WILL APPLY MANUFACTURER'S SPECIFIED FORCE, FOR THE PIPE SIZE.
   E. HOLD PRESSURE ON PIPE JOINT FOR TIME SUFFICIENT TO DEVELOP THE REQUIRED STRENGTH, AS RECOMMENDED BY THE MANUFACTURER.
   F. REMOVE THE INTERIOR BEAD, USING MANUFACTURER'S RECOMMENDED EQUIPMENT.
   G. ALL JOINTS SHALL BE INSTALLED SUCH THAT THE CONNECTION OF PIPE SECTION SHALL BE WATERTIGHT AND FORM A CONTINUOUS LINE FREE FROM IRREGULARITIES IN THE FLOW LINE.

4. TRENCH WIDTH SHALL BE IN ACCORDANCE WITH ASTM D2321 AND SHALL BE SUFFICIENT TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER BACKFILL MATERIALS. TRENCH WIDTH SHALL INCLUDE SUFFICIENT AREA FOR HDPE WATER LINE, FUEL LINE AND ELECTRICAL CONDUITS WITH A MINIMUM SEPARATION OF 12". MINIMUM BACKFILL DEPTH SHALL NOT BE LESS THAN 36" WHERE VEHICULAR TRAFFIC CAN BE PRESENT AND 24" WHERE WASHOUT OCCURS.

2" FORCE MAIN:
1. PVC PLASTIC PRESSURE PIPE AND ASSOCIATED FITTINGS USE PIPE, COUPLINGS AND FITTINGS MANUFACTURED OF MATERIALS CONFORMING TO ASTM D 1784, CLASS 12454-B.

(1) PUSH-ON JOINT: ASTM D 3139, WITH ASTM F 477 GASKETS. FITTINGS FOR PUSH-ON JOINTS: AWWA C110/A21.10 OR AWWA C111/A21.11. IRON FITTINGS AND SPECIALS: CEMENT-MORTAR LINED (STANDARD THICKNESS) IN ACCORDANCE WITH AWWA C104/A21.4.

(2) SOLVENT CEMENT JOINT: USE PIPE CONFORMING TO DIMENSIONAL REQUIREMENTS OF ASTM D 1785 OR ASTM D 2241 WITH JOINTS MEETING THE REQUIREMENTS OF 150 PSI WORKING PRESSURE AND 200 PSI HYDROSTATIC TEST PRESSURE. USE FITTINGS FOR SOLVENT CEMENT JOINTING CONFORMING TO ASTM D 2466 OR ASTM D 2467.

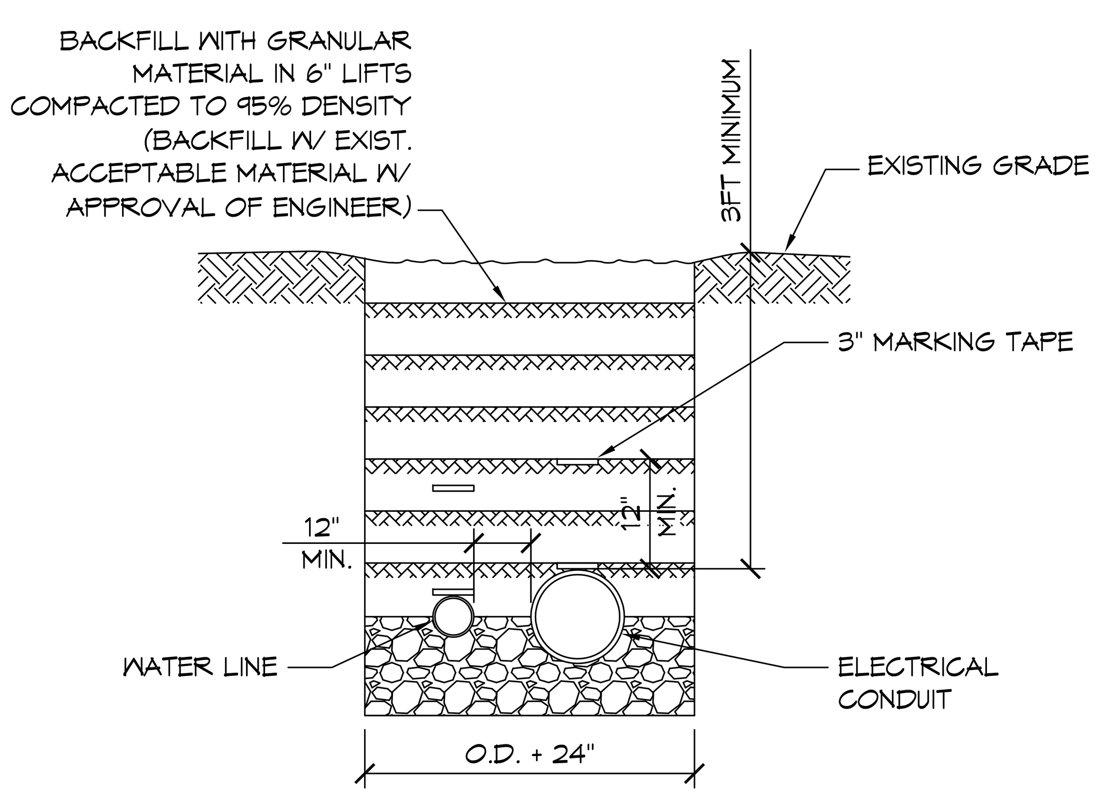
PLUMBING NOTES

1. SEE MANUFACTURER CUT SHEET FOR EACH ITEM INSTALLED.
2. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL CITY, PARISH, STATE AND NATIONAL GOVERNING CODES.
3. PLUMBING LINES SHOWN ARE DRAWN DIAGRAMMATIC IN NATURE AND REPRESENT CONCEPTUAL ROUTING ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS.
4. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. PROVIDE ALL PLUMBING FIXTURES EXCEPT THOSE PROVIDED BY OWNER. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, AND ALL SUPPORTS WITHOUT ANY RESTRICTIONS TO VOLUME. CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
5. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS, AND INVERTS PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS. CONTRACTOR IS RESPONSIBLE TO SET NEW INVERTS OF SEWAGE AND DRAINAGE PIPES.
6. SEWAGE LINES 3" AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES THAT ARE 4" AND LARGER SHALL BE SLOPED 1/8" PER FOOT.
7. TEST ALL PIPING AT REQUIRED PRESSURE.
8. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS TO ENSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
9. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
10. ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY. ALL LOCATIONS SHALL BE FIELD VERIFIED.
11. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K, SOFT ANNEALED. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
12. DOMESTIC WATER PIPING AND FITTINGS ABOVE THE FINISHED FLOOR SHALL BE ASTM B88 COPPER WATERTUBE, TYPE L, OR CPVC SCHEDULE 40.
13. SOIL, WASTE, VENT PIPING AND FITTINGS:
    A. ABOVE THE FINISHED FLOOR SHALL BE PVC SCHEDULE 40 OR ABS SWV.
    B. GRAVITY PIPE FLOWING BELOW THE SLAB SHALL BE PVC SDR-35.
    C. GRAVITY PIPE FLOWING BELOW THE NATURAL GRADE SHALL BE SDR-35.
    D. PVC PRESSURE PIPE SHALL BE AWWA C900 CLASS 150 WITH GASKETED JOINTS.
12. ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION AND JACKET. INSTALL HANGERS AND SUPPORTS OUTSIDE OF INSULATION TO ALLOW CONTROLLED THERMAL MOVEMENT OF PIPING SYSTEMS, TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS, AND SIMILAR UNITS.
13. ALL ELECTRICAL, MECHANICAL AND PLUMBING ELEMENTS PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.).
14. SEE ROOF PLAN FOR PLUMBING ROOF PENETRATIONS, ROUTE VENT PIPES IN ATTIC AS NECESSARY.
15. ALL VENTS THROUGH ROOF (VTR) SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY MECHANICAL OR NATURAL AIR INTAKE.

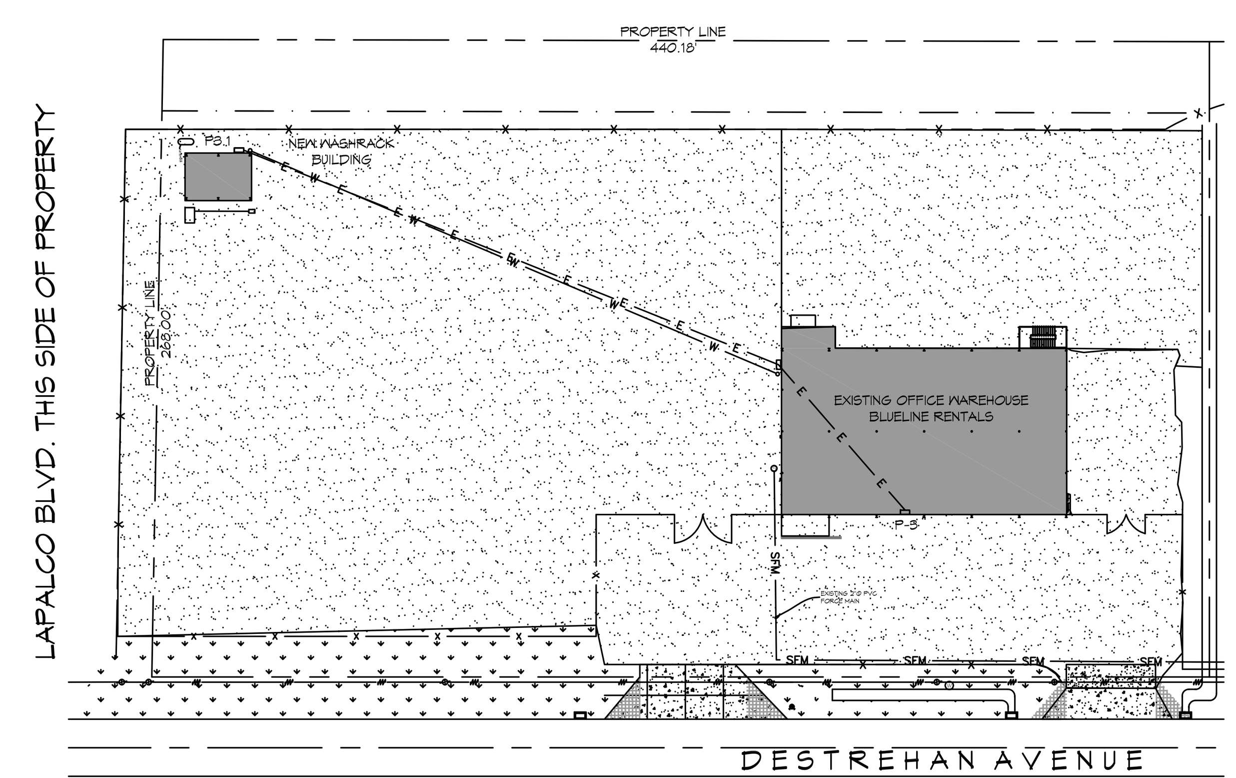
PLUMBING LEGEND

——W——W——	WATER MAIN
– – – – – –	ELECTRICAL CONDUIT
—— DIESEL ——	DIESEL LINE
—— BUTANE ——	BUTANE LINE
H.B.	HOSE BIB

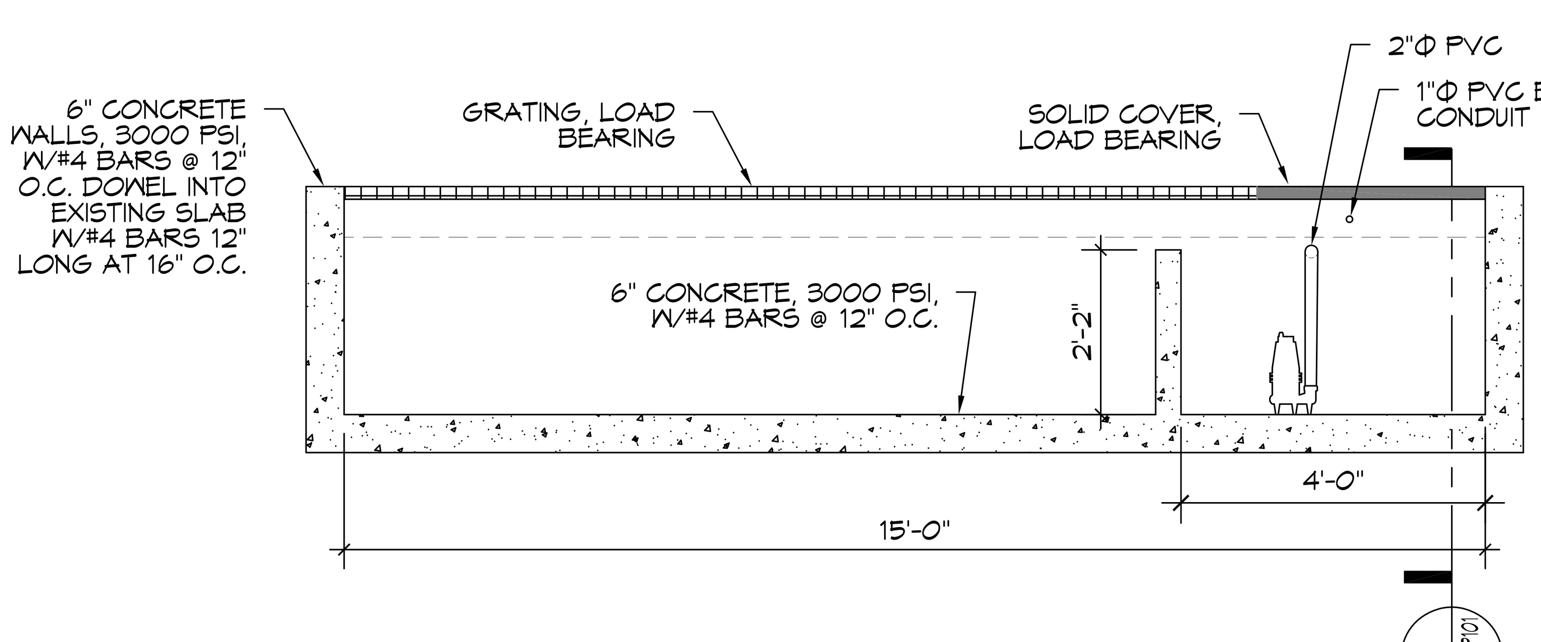
NOTE: ALL PLUMBING LINES ARE SHOWN DIAGRAMMATIC.



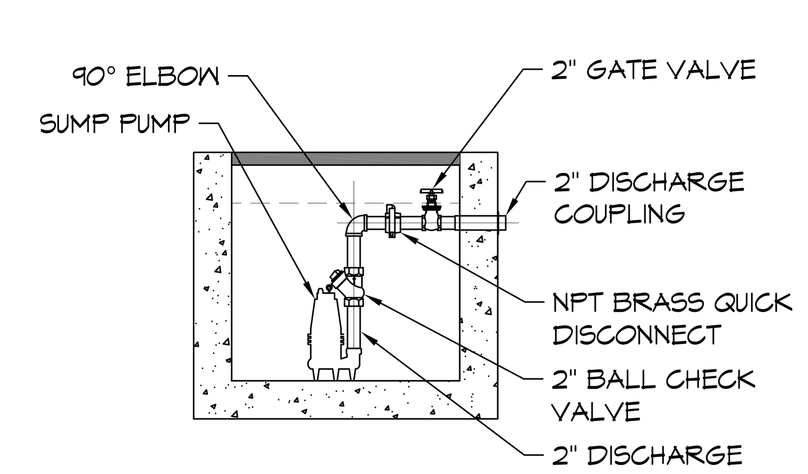
2 P101 P101 PIPE TRENCH DETAIL
SCALE: 3/8" = 1' - 0"



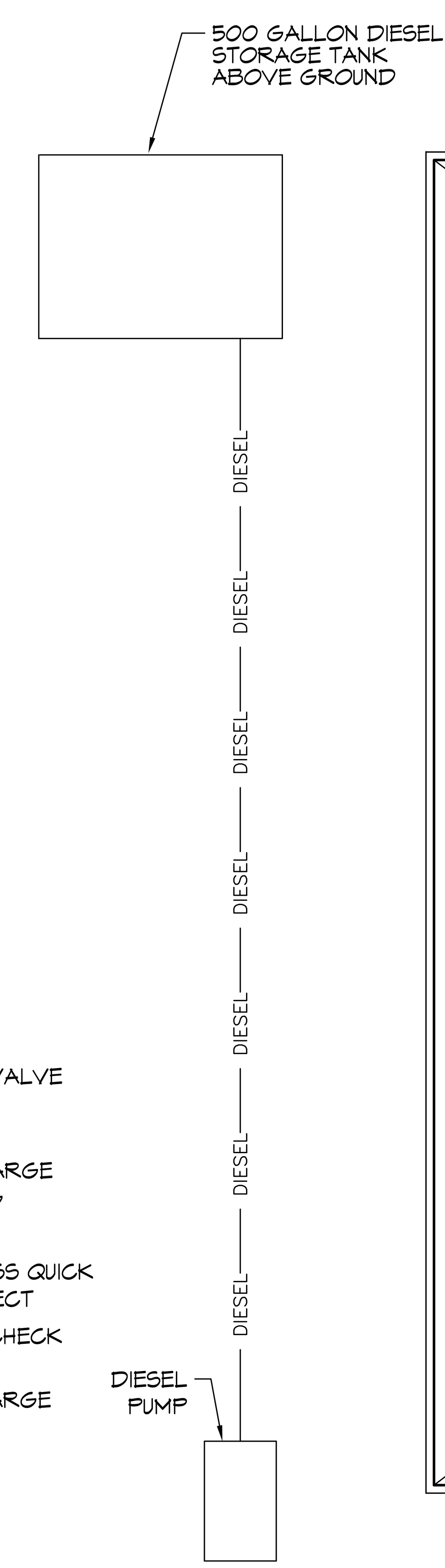
1 SITE PLAN
SCALE: 1/64" = 1'-0"

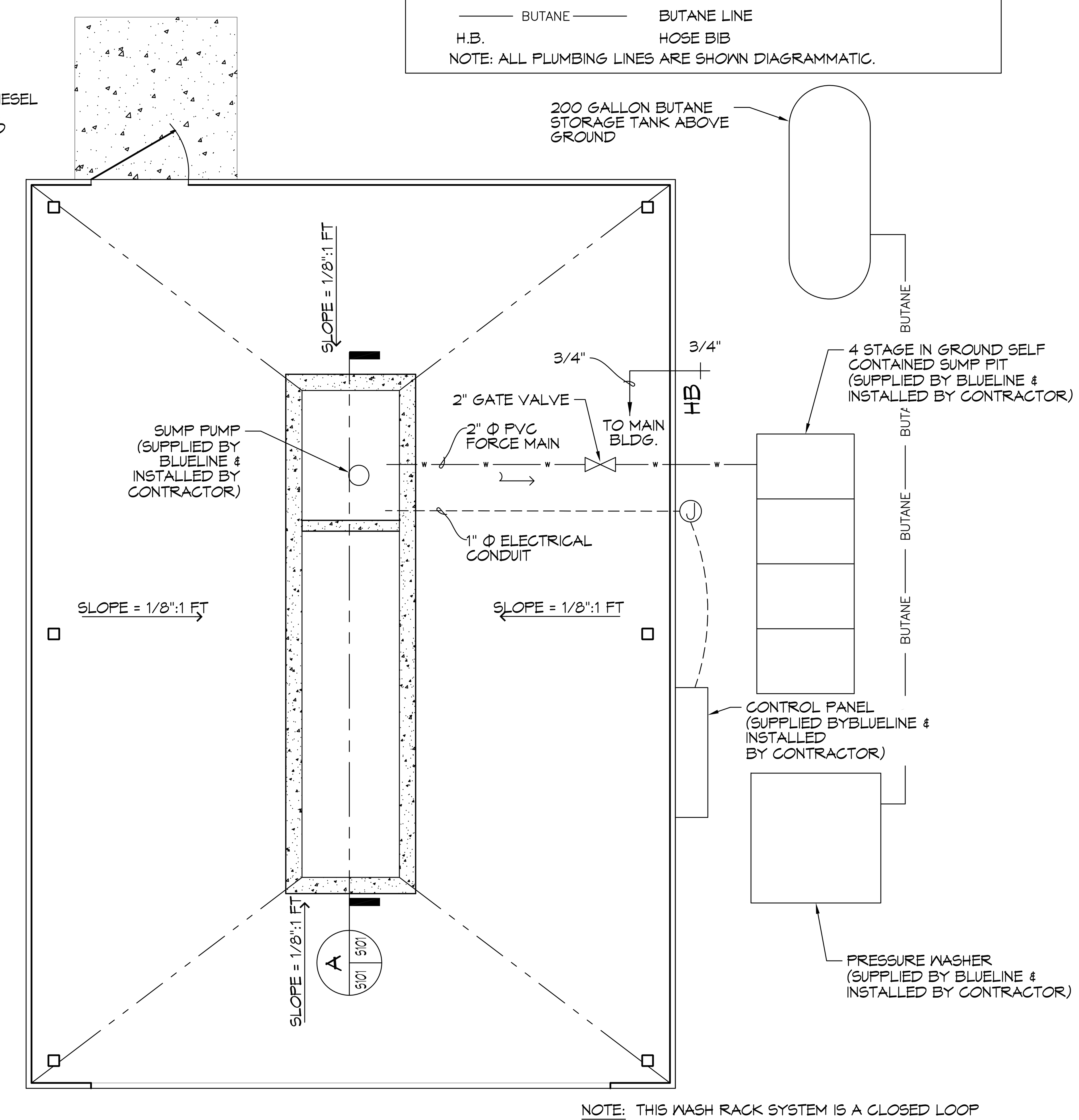


A P101 P101 TRENCH SECTION
SCALE: 1/2" = 1' - 0"



1 P101 P101 SUMP PUMP SECTION
SCALE: 1/2" = 1' - 0"
TRENCH DETAIL





NOTE: THIS WASH RACK SYSTEM IS A CLOSED LOOP RECYCLE SYSTEM. WASTE SHALL BE HAULED OFF BY CERTIFIED HAULER.

1 PLUMBING PLAN
SCALE: 3/8" = 1'-0"

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REVISIONS		
#	DESCRIPTION	DATE
1	ADD STRUCTURAL SHEET TO PLAN SET	1/29/2015

SEAL:

PRELIMINARY

WASH RACK
BLUELINE RENTALS
2450 DESTREHAN AVENUE
HARVEY, LOUISIANA 70058

JOB No: 2279	DATE: 25 FEBRUARY 2016		
DRAWN BY: DPD	CHECKED BY: KJK		

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SHEET TITLE: PLUMBING PLAN

DRAWING NUMBER: P101