

# BID DOCUMENTS

## Mobile (FMS #28) Repairs

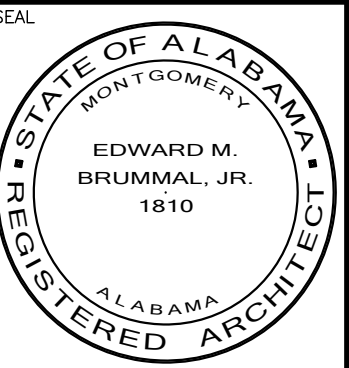
Mobile, Alabama

ARMORY COMMISSION OF ALABAMA IFB No. AC-24-B-0001-S



ARCHITECTS

PWBA Architects, Inc.  
529 SOUTH PERRY STREET • SUITE 15  
MONTGOMERY, ALABAMA 36104  
(334) 244-4990



| NO. | ADDENDUM/CONTRACT MOD. | DATE |
|-----|------------------------|------|
|     |                        |      |
|     |                        |      |

DESIGN TEAM

ARCHITECT

EDWARD M. BRUMMAL, Jr., AIA  
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CIVIL ENGINEER

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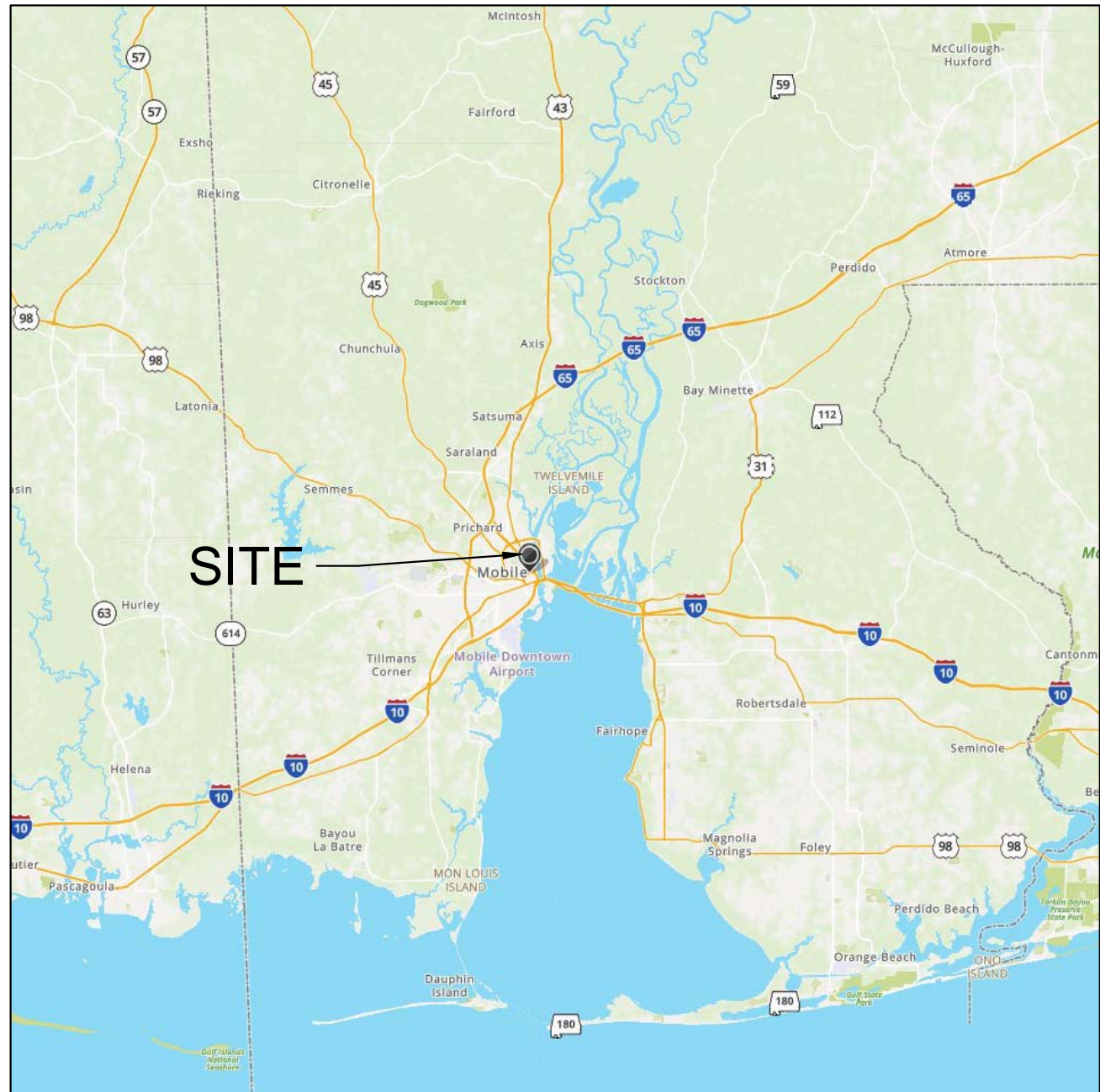
MECHANICAL ENGINEER

ASHTON FILLINGAME, P.E.  
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1000 HILLCREST ROAD  
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205-999-0580

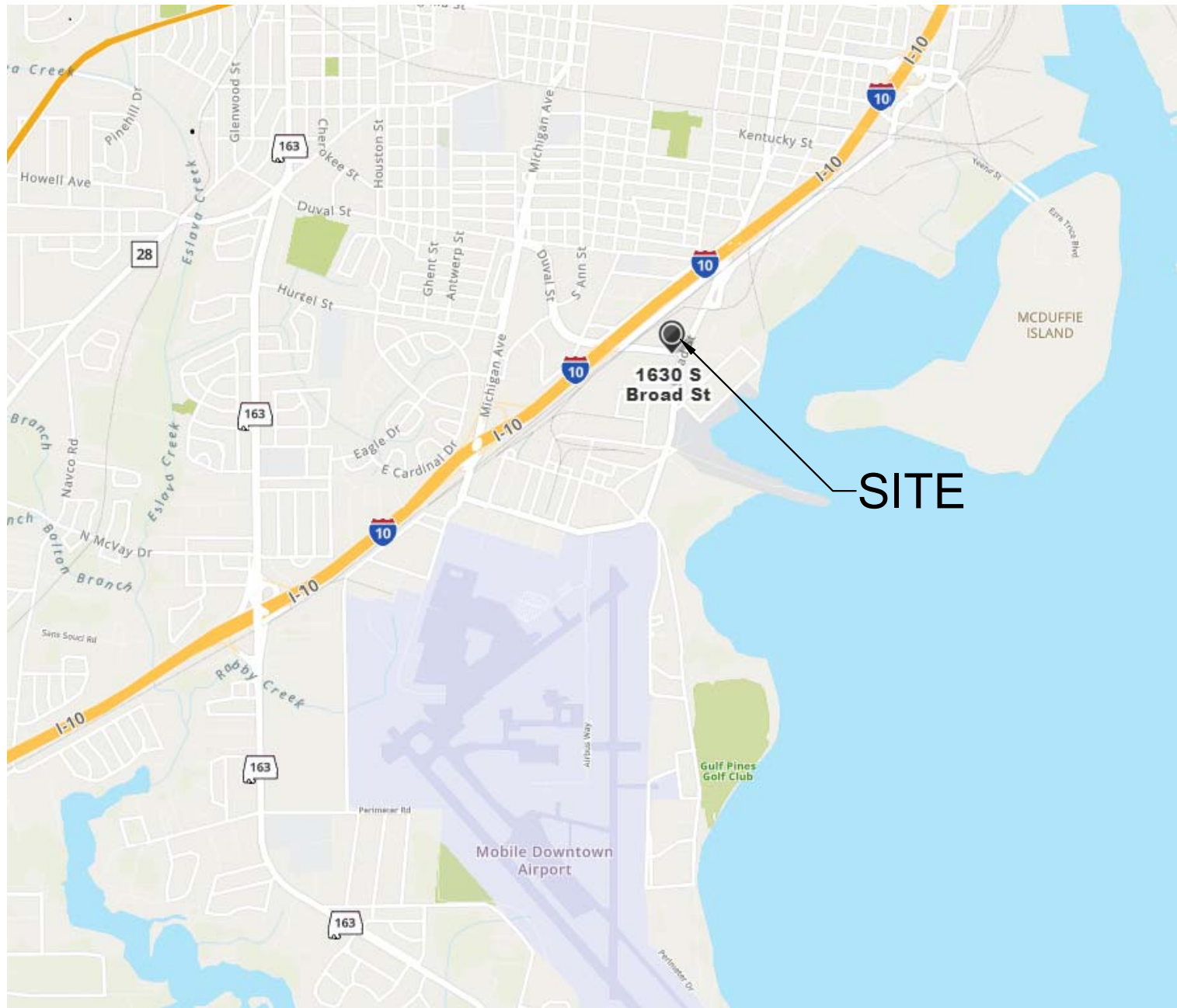
ABBREVIATIONS

|          |                             |         |                              |
|----------|-----------------------------|---------|------------------------------|
| ACOUST.  | - ACOUSTICAL                | MANUF.  | - MANUFACTURER               |
| A.F.F.   | - ABOVE FINISH FLOOR        | MBL     | - MARBLE                     |
| ALUM.    | - ALUMINUM                  | MECH.   | - MECHANICAL                 |
| ARCH.    | - ARCHITECTURAL             | M.O.    | - MASONRY OPENING            |
| ATTEN.   | - ATTENUATION               | MIN.    | - MINIMUM                    |
| BOT.     | - BOTTOM                    | M.R.    | - MOISTURE RESISTANT         |
| C.H.     | - COAT HOOK                 | M.T.    | - METAL THRESHOLD            |
| CONC.    | - CONCRETE                  | N.I.C.  | - NOT IN CONTRACT            |
| C.G.     | - CORNER GUARD              | NO.     | - NUMBER                     |
| C.J.     | - CONTROL JOINT             | O.C.    | - ON CENTER                  |
| C        | - CENTER LINE               | P.E.J.  | - PREMOULDED EXPANSION JOINT |
| CMU      | - CONCRETE MASONRY UNIT     | PLUMB.  | - PLUMBING                   |
| DIA.     | - DIAMETER                  | RD      | - ROOF DRAIN                 |
| DS       | - DOWNSPOUT                 | REF.    | - REFRIGERATOR               |
| DN       | - DOWN                      | REINF.  | - REINFORCING                |
| EA.      | - EACH                      | SCHED.  | - SCHEDULE                   |
| ELEC.    | - ELECTRICAL                | SIM.    | - SIMILAR                    |
| E.J.     | - EXPANSION JOINT           | STOR.   | - STORAGE                    |
| EQ.      | - EQUAL                     | STRUCT. | - STRUCTURAL                 |
| EWV      | - ELECTRIC WATER COOLER     | THRESH. | - THRESHOLD                  |
| EX.      | - EXISTING                  | TYP.    | - TYPICAL                    |
| EXIST.   | - EXISTING                  | VCT     | - VINYL COMPOSITION TILE     |
| EXT.     | - EXTERIOR                  | VTR     | - VENT THROUGH ROOF          |
| F.E.     | - FIRE EXTINGUISHER         | W/      | - WITH                       |
| F.E.C.   | - FIRE EXTINGUISHER CABINET | W.H.    | - WALL HYDRANT               |
| F.D.     | - FLOOR DRAIN               |         |                              |
| FIN.     | - FINISH                    |         |                              |
| F.R.     | - FIRE RESISTANT            |         |                              |
| F.S.     | - FLOOR SINK                |         |                              |
| FT       | - FOOT                      |         |                              |
| G.C.     | - GENERAL CONTRACTOR        |         |                              |
| GYP. BD. | - GYPSUM BOARD              |         |                              |
| GPM      | - GALLONS PER MINUTE        |         |                              |
| H.D.     | - HEAVY DUTY                |         |                              |
| H.M.     | - HOLLOW METAL              |         |                              |
| HT.      | - HEIGHT                    |         |                              |
| INSUL.   | - INSULATION                |         |                              |
| INT.     | - INTERIOR                  |         |                              |

VICINITY MAP



PROJECT LOCATION MAP



INDEX TO DRAWINGS

| SHEET NO.  | SHEET TITLE   |
|------------|---|
| GENERAL    |   |
| TITLE      | TITLE SHEET AND INDEX TO DRAWINGS                                   |
| A001       | FOR REFERENCE - EXISTING FLOOR PLAN                                 |
| CIVIL      |   |
| C0         | GENERAL NOTES   |
| C1         | DEMOLITION PLAN, NEW SITE PLAN                                      |
| C2         | NEW SUMP PLAN AND DETAILS   |
| C3         | S.O.W.  |
| MECHANICAL |   |
| P101       | COMPRESSED AIR PLUMBING, GENERAL NOTES, & DEMO FLOOR PLAN           |
| P102       | COMPRESSED AIR PLUMBING, NEW WORK/ALT BID FLOOR PLAN AND SCHEMATICS |

MOBILE (FMS 28) REPAIRS  
ARMORY COMMISSION OF ALABAMA  
1630 S. BROAD STREET, MOBILE, ALABAMA

PROJECT NUMBER: 2022-0202 ORIGINAL DATE: 12-12-23  
DRAWN BY: AJN CHECKED BY: EMB

SHEET TITLE: TITLE SHEET AND INDEX TO DRAWINGS

SHEET NUMBER

TITLE





EXISTING METAL STORAGE BUILDING



EXISTING OIL-WATER SEPARATOR



**NOTE:**  
THIS PLAN IS FOR GENERAL REFERENCE ONLY. REFER TO CIVIL AND MECHANICAL FOR NEW WORK.

EXISTING FUEL TANK AND STATION

**LEGEND**  
AREA OF WORK

**FOR REFERENCE - EXIST SITE/FLOOR PLAN**  
VPDGE-4230 4 43 5  
3 7 57  
5 3 49  
SITE PARKING AREAS



**GENERAL NOTES:**

- BUILDING CODES: 2021 INTERNATIONAL BUILDING CODE  
2021 INTERNATIONAL PLUMBING CODE  
2021 INTERNATIONAL MECHANICAL CODE  
2021 INTERNATIONAL FIRE CODE  
2020 NATIONAL ELECTRICAL CODE
- DESIGN LOADS: EARTH RETENTION
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE PRIOR TO STARTING CONSTRUCTION AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES WITH ANY WORK SO INVOLVED.
- ALL PHASES OF THE WORK SHALL CONFORM TO THE MINIMUM STANDARDS AND REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE STRUCTURE, UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS, AND OTHER PERSONNEL DURING CONSTRUCTION.
- ALL ASTM SPECIFICATIONS NOTED ON THESE DRAWINGS SHALL BE OF THE LATEST REVISION.
- IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONTRACT DRAWINGS OR CALLED FOR IN THE NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR AND SHALL BE REVIEWED BY THE ENGINEER PRIOR TO THE START OF WORK.
- EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR, AS THEY ARE UNCOVERED DURING THE CONSTRUCTION. IN THE EVENT EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY AND AWAIT FURTHER INSTRUCTION BEFORE PROCEEDING WITH CONSTRUCTION. SEE GENERAL CONDITIONS IN SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTAL FOR APPROVAL. SPECIFICATIONS AND/OR SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER OF RECORD AND APPROVED PRIOR TO START OF WORK.
- VERIFY ALL EQUIPMENT LOCATIONS AND OPENINGS THROUGH ROOF, FLOOR, AND WALLS WITH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL REQUIREMENTS.
- STRUCTURAL DRAWINGS MAY NOT BE DUPLICATED IN ANY FORM FOR ANY PURPOSE. IF STRUCTURAL DRAWINGS ARE REPRODUCED IN ANY WAY, SUCH AS FOR SHOP DRAWING PREPARATION, SHOP DRAWINGS WILL BE REJECTED.
- SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR. PSE DESIGNS SHALL HAVE NO RESPONSIBILITY IN SHORING PROCEDURES. SHORING TO REMAIN IN PLACE UNTIL CONSTRUCTION OF THE SHORED AREA IS COMPLETE.

**STEEL:**

- STRUCTURAL STEEL SHALL MEET THE LATEST PROVISIONS OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- ALL STRUCTURAL STEEL SHALL CONFORM TO FOLLOWING:  
STRUCTURAL WIDE FLANGE SHAPES      ASTM A992 MIN 50 KSI  
STRUCTURAL M, S, & HP SHAPES      ASTM A36  
ALL OTHER STRUCTURAL SHAPES      ASTM A36  
STEEL PIPE      ASTM A53 GRADE B  
STEEL TUBING      ASTM A500 GRADE B  
STEEL STUDS      ASTM A108
- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST PROVISIONS OF THE AISC MANUAL OF STEEL CONSTRUCTION.
- ALL STRUCTURAL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES AS INDICATED BY THE CONTRACTOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- BEARING (N) TYPE CONNECTIONS SHALL BE USED AT ALL SIMPLE SHEAR CONNECTIONS, U.N.O.
- THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP AND ERECTION DRAWINGS OF ALL STEEL FOR ENGINEER'S REVIEW BEFORE FABRICATION. CONTRACTOR SHALL NOT ERECT ANY STRUCTURAL STEEL UNTIL THE SHOP DRAWINGS ARE REVIEWED BY THE ENGINEER AND ARE RECEIVED AT THE JOBSITE. SHOP AND ERECTION DRAWINGS SHALL CONTAIN ALL INFORMATION NECESSARY TO ERECT ALL STRUCTURAL STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTIONS OF THE STRUCTURAL DRAWINGS.
- ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED BY THE APPLICABLE AUTHORITY AND THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELDING MADE. ALL WELDS SHALL BE MADE & INSPECTED IN ACCORDANCE WITH ALL THE REQUIREMENTS OF THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS D1.1).
- ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS, SIZE OF WELD SHALL BE BASED ON AISC STANDARD FOR THICKER PART JOINED.
- ALL PARTIAL AND FULL PENETRATION GROOVE WELDS SHALL HAVE NON-DESTRUCTIVE TESTING PERFORMED BY EITHER ULTRASONIC TESTING OR RADIOGRAPHY.
- STRUCTURAL STEEL SHALL BE WELDED WITH E70XX ELECTRODES.
- STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOBSITE FREE OF EXCESS RUST, MILL SCALE, GREASE, ETC.
- IT IS THE INTENT OF THE ENGINEER THAT ALL CONNECTIONS SHALL BE SHOP-WELDED & FIELD BOLTED TO FULLEST EXTENT POSSIBLE.
- ALL BOLTS SHALL BE A MIN. OF 3/4" U.N.O. AND SHALL CONFORM TO ASTM A325 HIGH STRENGTH, WITH HEX NUTS & WASHERS AS U.N.O. ON THE DRAWINGS.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 U.N.O. ON THE DRAWINGS.
- OPENINGS SHALL NOT BE ALLOWED IN STRUCTURAL STEEL UNLESS SPECIFICALLY DETAILED OR WITHOUT ENGINEER'S APPROVAL.
- ALL BOLTS, WASHERS & NUTS TO BE HOT DIPPED GALVANIZED.
- CONTRACTOR SHALL ALLOW 3 WEEKS MINIMUM FOR REVIEW OF ALL SHOP DRAWINGS.

**CONCRETE:**

- CONCRETE MIXES TO BE DESIGNED BY A RECOGNIZED TESTING LABORATORY AND COPIES OF DESIGN MIX SUBMITTED TO THE ENGINEER. COMPRESSIVE TEST REPORTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ANY OTHER AGENCIES AS SPECIFIED BY LOCAL BUILDING CODE.
- ALL CONCRETE SHALL DEVELOP MINIMUM 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60. ALL WELDED WIRE FABRIC (W/W) SHALL CONFORM TO ASTM A185.
- MINIMUM W/W LAP SHALL BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR MINIMUM OF 6 INCHES.
- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND ITS REVISIONS.
- ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI STANDARDS. NO WELDING OF REINFORCEMENT SHALL BE ALLOWED UNLESS NOTED OR OTHER WISE APPROVED BY ENGINEER.
- NO SPLICING OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES WHERE PERMITTED SHALL BE CLASS B TENSION LAP SPLICES, U.N.O., MAKE ALL BARS CONTINUOUS AROUND CORNERS.
- STAGGER SPLICES A MIN. OF 4'-0" FOR CONTINUOUS BARS IN ALL CONCRETE WORK, U.N.O.
- PROVIDE (2) #5 BARS (1 EACH FACE) WITH MIN. 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE UNLESS NOTED OTHERWISE.
- SLABS, WALLS, AND PILE CAPS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCED PLACED IN CAST IN PLACE CONCRETE:
 

|  |  |
|--|--|
| A. CONCRETE PLACED AGAINST AND PERMANENTLY EXPOSED TO EARTH:   | 3 INCHES   |
| B. FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:<br>#6 THROUGH #18 BARS<br>#9 BARS AND SMALLER  | 2 INCHES<br>1.5 INCHES                           |
| C. CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND:<br>SLABS, WALLS AND JOISTS:<br>#14 AND #18 BARS<br>#11 BARS & SMALLER<br>BEAMS, COLUMNS & WALL JAMBS:<br>PRIMARY REINFORCEMENT, TIES, STIRRUPS & SPIRALS:<br>#14 AND #18 BARS<br>#11 BARS & SMALLER | 1.5 INCHES<br>1 INCH<br>2.5 INCHES<br>1.5 INCHES |
- PROVIDE REINFORCING BAR PLACING ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT IN ACCORDANCE WITH AISC MANUAL OF STANDARD PRACTICE.
- ALL CONTROL/CONSTRUCTION JOINTS ARE TO BE PLACED IN A RECTANGULAR PATTERN ENCLOSING MAXIMUM AREAS OF 200 SQUARE FEET, RATIO OF LONG SIDE OF RECTANGLE TO SHORT IS NOT TO BE GREATER THAN 1.5:1. CONTRACTOR MAY ADJUST LOCATIONS OF CONSTRUCTION/CONTROL JOIST TO SUIT THEIR PARTICULAR CONCRETE PLACEMENT SCHEME.
- CONTRACTOR SHALL NOT PLACE ANY REINFORCEMENT UNTIL SHOP DRAWINGS ARE APPROVED BY THE ENGINEER ARE RECEIVED ON THE JOB SITE. SHOP DRAWINGS SHALL CONSIST OF BOTH THE "CUT" & PLACING SHEETS. PLACING SHEETS SHALL CONTAIN ALL INFORMATION NECESSARY TO POSITION ALL REINFORCING STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTIONS OF THE STRUCTURAL DRAWINGS.
- ALL FIELD BENDING OF REINFORCING BARS SHALL BE MADE COLD FOR #9 BARS & SMALLER. #9, #10 & #11 BARS UPON APPROVAL MAY BE PREHEATED UNIFORMLY TO 1400-1600 DEGREES FAHRENHEIT & CAREFULLY BENT OR STRAIGHTENED BY CRSI RECOMMENDATIONS.
- ALL REINFORCING BARS, ANCHOR BOLTS & OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROTECTING CORNERS OF BEAMS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER UNLESS DETAILED OTHERWISE.
- U.N.O. ALL CONCRETE SHALL BE PLACED OVER A 10 MIL VAPOR BARRIER.
- CONTRACTOR SHALL SUPPLY PSE DESIGNS, INC. WITH A CONTROL/EXPANSION JOIST LAYOUT FOR APPROVAL PRIOR TO PLACEMENT.
- CONCRETE MATERIALS:
 

|  |   |
|--|---|
| A. CEMENT ASTM C150 TYPE I NORMAL PORTLAND TYPE                        | 1. ACQUIRE ALL AGGREGATE FOR ENTIRE PROJECT FROM SAME SOURCE. |
| B. FINE & COURSE AGGREGATES: ASTM C33                                  | 1. ACQUIRE ALL AGGREGATE FOR ENTIRE PROJECT FROM SAME SOURCE. |
| C. FLY ASH: ASTM 618 CLASS C OR F                                      |   |
| D. CALCED POZZOLAN ASTM C618, CLASS N                                  |   |
| E. SILICA FUME: ASTM C1240, PROPORTIONED IN ACCORDANCE WITH ACI 211.1. |   |
| F. WATER: CLEAN & NOT DETRIMENTAL TO CONCRETE.                         |   |
- CHEMICAL ADD MIXTURES:
 

|   |  |
|---|--|
| A. DO NOT USE CHEMICALS THAT WILL RESULT IN SOLUBLE CHLORIDE IONS IN EXCESS OF 0.1 PERCENT BY WEIGHT OF CEMENT. |  |
| B. AIR ENTRAINMENT ADMIXTURE: ASTM C 260.   |  |
| C. HIGH RANGE WATER REDUCING & RETARDING ADMIXTURES: ASTM C 494/C 494M TYPE C.                                  |  |
| D. HIGH RANGE WATER REDUCING ADMIXTURE: ASTM C 494/C 494M TYPE F.   |  |
| E. WATER REDUCING & ACCELERATING ADMIXTURE: ASTM C 494/C 494M TYPE E.   |  |
| F. WATER REDUCING & RETARDING ADMIXTURE: ASTM 494/C 494M TYPE D.  |  |
| G. ACCELERATING ADMIXTURE: ASTM 494/C 494M TYPE C.  |  |
- BONDING & JOINTING PRODUCTS:
 

|  |  |
|--|--|
| A. EPOXY BONDING SYSTEM: COMPLYING WITH ASTM C881/C 881M & OF TYPE REQUIRED FOR SPECIFIC APPLICATION.  |  |
| B. WATERSTOPS: PVC COMPLYING WITH CODE CRD-C572.   |  |
| C. SLAB ISOLATION JOINT FILLER: HALF INCH THICK HEIGHT EQUAL TO SLAB THICKNESS, WITH REMOVABLE TOP SECTION THAT WILL FOR 1/2 INCH DEEP SEALANT POCKET AFTER REMOVAL.   |  |
| D. SLAB CONSTRUCTION JOINT DEVICES: COMBINATION KEYED JOINT FORM AND SCREED, GALVANIZED STEEL, WITH MIN. 1 INCH DIAMETER HOLES FOR CONDUIT OR REBARS TO PASS THROUGH AT 6" ON CENTER; RIBBED STEEL STAKES FOR SETTING. |  |

**CONCRETE:**

- CONCRETE MIX DESIGN:
 

|  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
|--|---|--|---|--|--|--|---|--|--|--|---|--|---|--|-----------------------------|--|---------------------------------|--|--|
| A. PROPORTIONING NORMAL WEIGHT CONCRETE: COMPLY WITH ACI 211.1 RECOMMENDATIONS.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| B. CONCRETE STRENGTH: ESTABLISH REQUIRED AVERAGE STRENGTH FOR EACH TYPE OF CONCRETE ON THE BASIS OF FIELD EXPERIENCE OR TRIAL MIXTURES, AS SPECIFIED IN ACI 301 FOR TRIAL MIXTURES METHOD, EMPLOY INDEPENDENT TESTING AGENCY ACCEPTABLE TO ENGINEER FOR PREPARING AND REPORTING PROPOSED MIX DESIGNS.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| C. ADMIXTURES: ADD ACCEPTABLE ADMIXTURES AS RECOMMENDED IN ACI 211.1 AND AT RATES RECOMMENDED BY MANUFACTURER.   |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| D. NORMAL WEIGHT CONCRETE: <table border="0"> <tr> <td>1. COMPRESSIVE STRENGTH WHEN TESTED IN ACCORDANCE WITH ASTM C 39/C 39M @ 28 DAYS: AS INDICATED ON DRAWINGS.</td> <td></td> </tr> <tr> <td>2. FLY ASH CONTENT: MAXIMUM 15% OF CEMENTITIOUS MATERIAL MATERIALS BY WEIGHT.</td> <td></td> </tr> <tr> <td>3. CALCED POZZOLAN CONTENT: MAXIMUM 10% OF CEMENTITIOUS MATERIALS BY WEIGHT.</td> <td></td> </tr> <tr> <td>4. SILICA FUME CONTENT: MAXIMUM 5% OF CEMENTITIOUS MATERIALS BY WEIGHT.</td> <td></td> </tr> <tr> <td>5. CEMENT CONTENT: MINIMUM PER CUBIC YARD TO ATTAIN SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH.</td> <td></td> </tr> <tr> <td>6. WATER-CEMENT RATIO: MAXIMUM 40% BY WEIGHT.</td> <td></td> </tr> <tr> <td>7. TOTAL AIR CONTENT: 4%, DETERMINED IN ACCORDANCE WITH ASTM C 173C 173M.</td> <td></td> </tr> <tr> <td>8. MAXIMUM SLUMP: 3 INCHES.</td> <td></td> </tr> <tr> <td>9. MAXIMUM AGGREGATE: 5/8 INCH.</td> <td></td> </tr> </table> | 1. COMPRESSIVE STRENGTH WHEN TESTED IN ACCORDANCE WITH ASTM C 39/C 39M @ 28 DAYS: AS INDICATED ON DRAWINGS. |  | 2. FLY ASH CONTENT: MAXIMUM 15% OF CEMENTITIOUS MATERIAL MATERIALS BY WEIGHT. |  | 3. CALCED POZZOLAN CONTENT: MAXIMUM 10% OF CEMENTITIOUS MATERIALS BY WEIGHT. |  | 4. SILICA FUME CONTENT: MAXIMUM 5% OF CEMENTITIOUS MATERIALS BY WEIGHT. |  | 5. CEMENT CONTENT: MINIMUM PER CUBIC YARD TO ATTAIN SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH. |  | 6. WATER-CEMENT RATIO: MAXIMUM 40% BY WEIGHT. |  | 7. TOTAL AIR CONTENT: 4%, DETERMINED IN ACCORDANCE WITH ASTM C 173C 173M. |  | 8. MAXIMUM SLUMP: 3 INCHES. |  | 9. MAXIMUM AGGREGATE: 5/8 INCH. |  |  |
| 1. COMPRESSIVE STRENGTH WHEN TESTED IN ACCORDANCE WITH ASTM C 39/C 39M @ 28 DAYS: AS INDICATED ON DRAWINGS.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| 2. FLY ASH CONTENT: MAXIMUM 15% OF CEMENTITIOUS MATERIAL MATERIALS BY WEIGHT.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| 3. CALCED POZZOLAN CONTENT: MAXIMUM 10% OF CEMENTITIOUS MATERIALS BY WEIGHT.   |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| 4. SILICA FUME CONTENT: MAXIMUM 5% OF CEMENTITIOUS MATERIALS BY WEIGHT.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| 5. CEMENT CONTENT: MINIMUM PER CUBIC YARD TO ATTAIN SPECIFIED MINIMUM 28 DAY COMPRESSIVE STRENGTH.   |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| 6. WATER-CEMENT RATIO: MAXIMUM 40% BY WEIGHT.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| 7. TOTAL AIR CONTENT: 4%, DETERMINED IN ACCORDANCE WITH ASTM C 173C 173M.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| 8. MAXIMUM SLUMP: 3 INCHES.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |
| 9. MAXIMUM AGGREGATE: 5/8 INCH.  |   |  |   |  |  |  |   |  |  |  |   |  |   |  |                             |  |                                 |  |  |

**FOUNDATIONS:**

- NO SOILS REPORT WAS PERFORMED FOR THIS PROJECT. FOUNDATION DESIGN BASED ON AN ASSUMED MINIMUM BEARING CAPACITY OF 1500 PSF. THIS PRESUMPTIVE CAPACITY IS BASED ON THE ASSUMPTION THAT THE EXISTING SOILS ARE CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT, OR SANDY SILT (CL, ML, MH, OR CH) AS DESCRIBED IN SECTION 1806 AND TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE. THE ENGINEER OF RECORD MAKES NO WARRANTY OR GUARANTEE OF FUTURE SETTLEMENT OF THE EXISTING SOILS. THE TOP 12 INCHES OF EXISTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.
- IF FIELD CONDITIONS VARY AND/OR ASSUMED BEARING PRESSURE IS INCORRECT NOTIFY ENGINEER OF RECORD PRIOR TO START OF FOUNDATION CONSTRUCTION.
- A REGISTERED GEOTECHNICAL ENGINEER SHALL BE RETAINED DURING CONSTRUCTION TO INSPECT FOUNDATION EXCAVATION; INSPECT & MONITOR PLACEMENT OF COMPACTED FILL, AND TO MONITOR PROOF ROLLING OPERATIONS, AS REQUIRED.

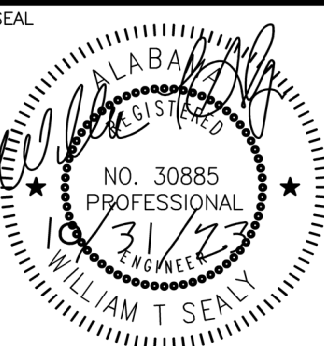
**TESTING AND UTILITY LOCATION:**

GC IS TO EMPLOY AN INDEPENDENT TESTING COMPANY TO DO ANY TESTING REQUIRED BY THE GENERAL CONDITIONS, SPECIFICATIONS, DRAWINGS, ADEM, OR ANY OTHER REGULATORY AGENCY WITH JURISDICTION I.E. CONCRETE (IF NEEDED) ADEM TESTING STANDARDS AND DISPOSAL OF ANY CONTAMINATED EARTH, MATERIALS, ETC. IN PROPER LANDFILLS OR OTHER MANNER. OWNER DOES NOT PROVIDE LOCATION SERVICES. UTILITY LOCATIONS ON THE DRAWING ARE APPROXIMATE. GC IS TO HIRE A LOCAL COMPANY TO LOCATE ANY UNDERGROUND UTILITIES AND PIPES PRIOR TO BEGINNING EXCAVATION WORK.



**ARCHITECTS**

**PWBA Architects, Inc.**  
529 SOUTH PERRY STREET #1015  
MONTGOMERY, ALABAMA 36104  
(334) 244-4990



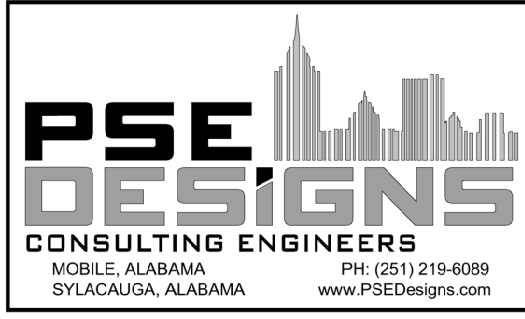
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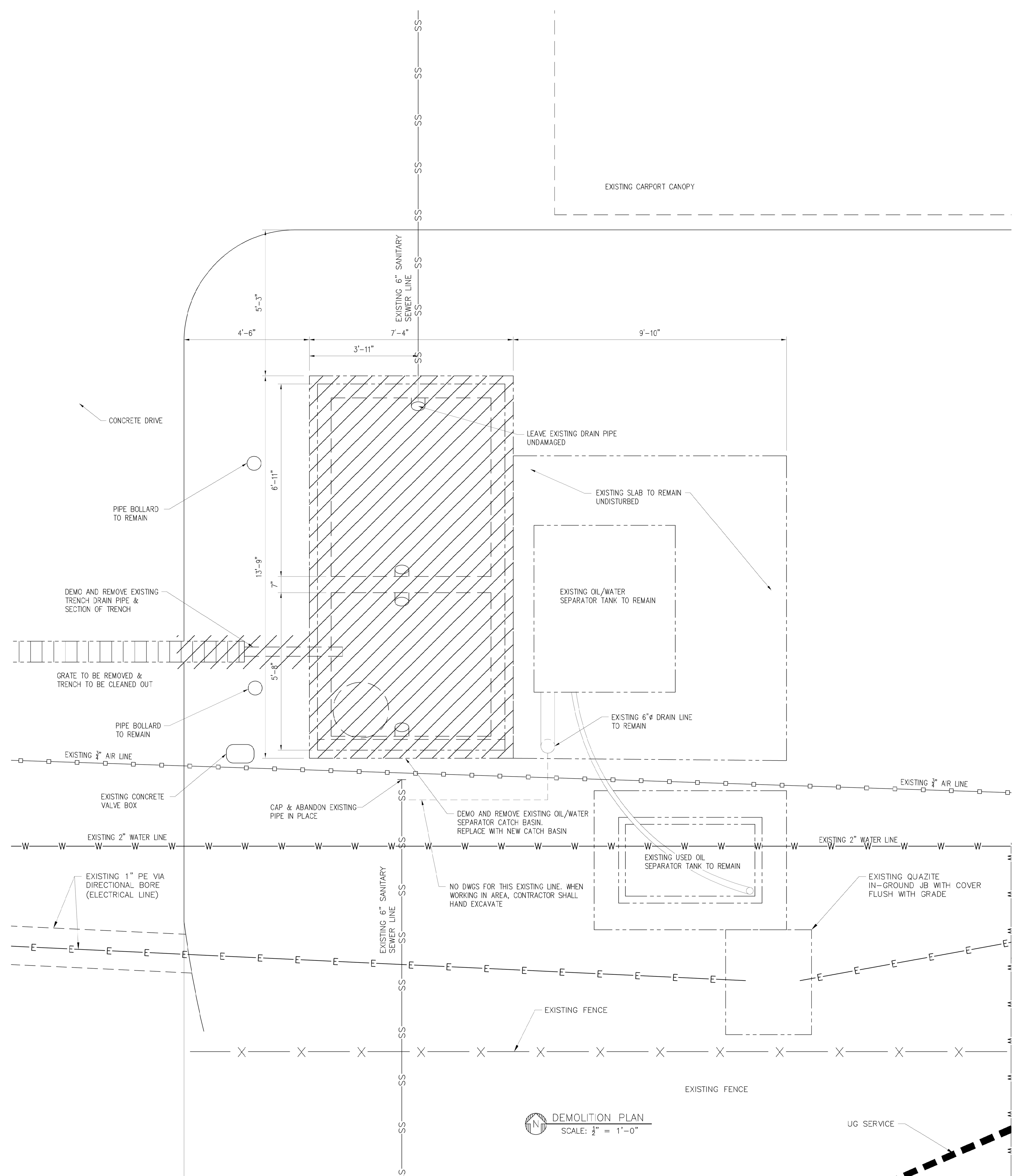
**MOBILE (FMS 28) REPAIRS  
ARMORY COMMISSION OF ALABAMA**  
1630 S. BROAD STREET, MOBILE, ALABAMA

|                             |                           |
|-----------------------------|---------------------------|
| PROJECT NUMBER<br>2022-0202 | ORIGINAL DATE<br>12-12-23 |
| DRAWN<br>ELR                | CHECKED<br>WTS            |

SHEET TITLE  
GENERAL NOTES

SHEET NUMBER  
**60**

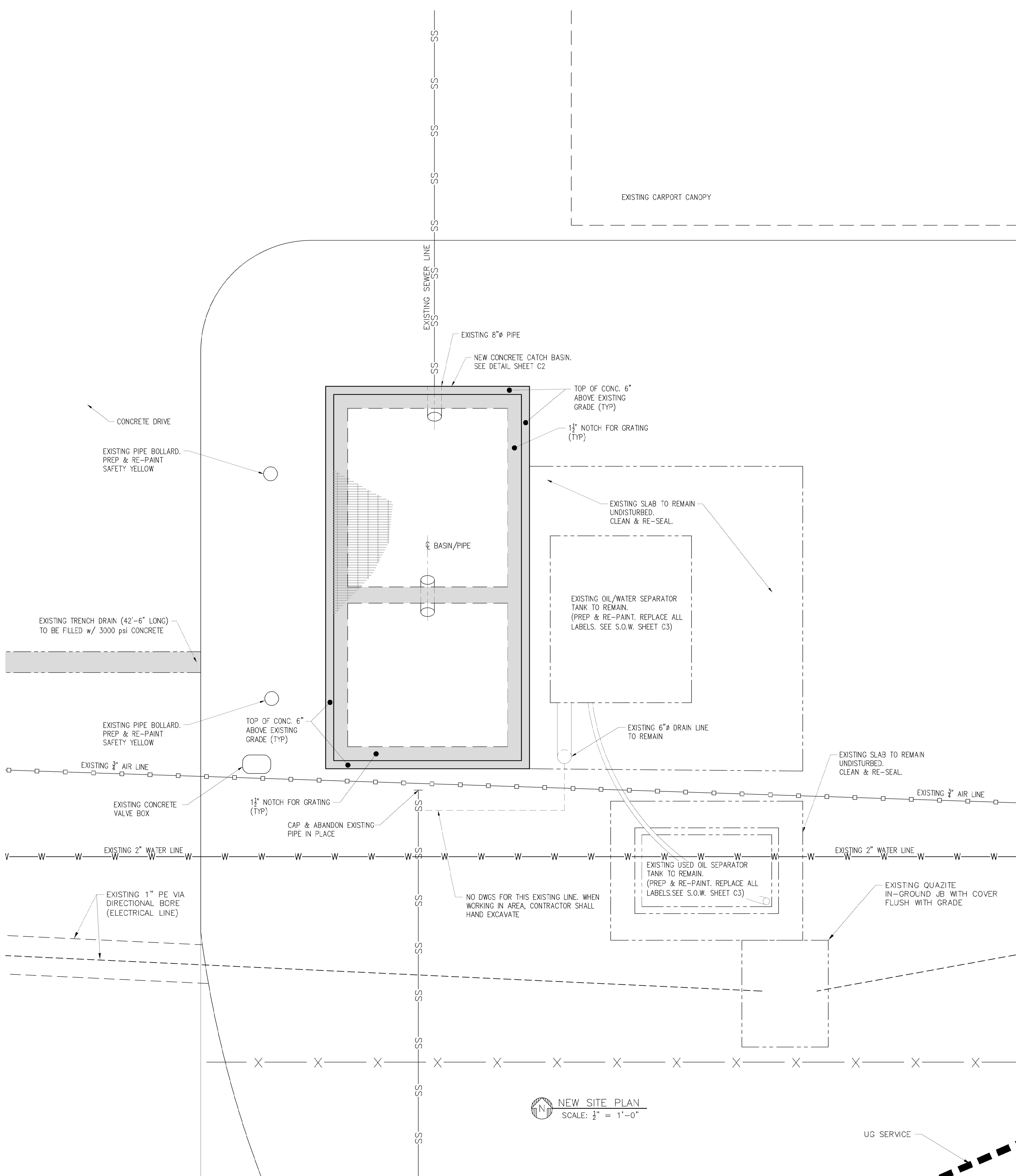




LEGEND:  
 SS = EXISTING 6" SANITARY SEWER LINE  
 W = EXISTING 2" WATER LINE  
 E = EXISTING 1" ELECTRICAL LINE

SHOULD CULTURAL RESOURCES BE DISCOVERED DURING THE COURSE OF THE PROJECT, WORK SHALL HALT. THE ARCHITECT AND OWNER SHALL BE NOTIFIED IMMEDIATELY.

INDICATED UNDERGROUND UTILITIES AND PIPING ARE TAKEN FROM OWNER-SUPPLIED DRAWINGS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, PIPING, ETC. PRIOR TO BEGINNING ANY EXCAVATION WORK.



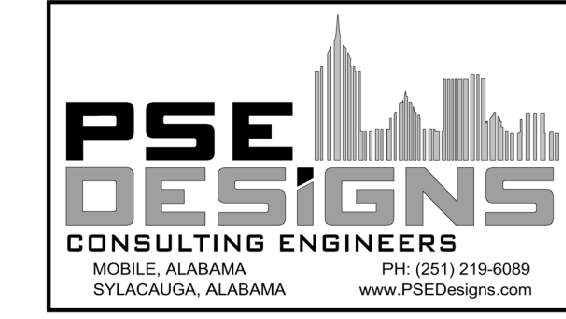
LEGEND:  
 SS = EXISTING 6" SANITARY SEWER LINE  
 W = EXISTING 2" WATER LINE  
 E = EXISTING 1" ELECTRICAL LINE

**MOBILE (FMS 28) REPAIRS**  
**ARMORY COMMISSION OF ALABAMA**  
 1630 S. BROAD STREET, MOBILE, ALABAMA

PROJECT NUMBER: 2022-0202 ORIGINAL DATE: 12-12-23  
 DRAWN: ELR CHECKED: WTS

SHEET TITLE: DEMOLITION PLAN  
 NEW SITE PLAN

SHEET NUMBER: C1









| NO. | REVISION DESCRIPTION | DATE |
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|     |                      |      |
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OIL/WATER SEPARATOR S.O.W.

- SEPARATOR TANK TO BE CLEANED (EXTERIOR & INTERIOR).
- PREP & RE-PAINT INTERIOR EXTERIOR OF OIL/WATER SEPARATOR – SEE SECTION 09 91 13.  
PATCH ANY LEAKS FOUND IN SHEET METAL OF OIL/WATER SEPARATOR OR ASSOCIATED BASINS, TANKS, ETC. PRIOR TO RE-PAINTING. NOTIFY ARCHITECT IF CORROSION IS FOUND THAT WILL COMPROMISE THE INTEGRITY OF ANY STRUCTURE OR PART.
- PREP AND RE-PAINT EXISTING OIL/WATER SEPARATOR STAND – SEE SECTION 09 91 13.
- ALL LABELS ON PAINTED UNITS TO BE REPLACED.
- REPLACE ALL HOSES, VALVES, SEALS, AND FILTERS IN EXISTING OIL/WATER SEPARATOR.
- DEMO EXISTING CONCRETE BASIN.
- INSTALL NEW C.I.P. CONCRETE BASIN.  
BID ITEM A1: IN PLACE OF C.I.P. BASIN, CONTRACTOR MAY FURNISH AND INSTALL PRE-FABRICATED PVC BASIN. FINAL WALL & BOTTOM THICKNESS TO BE DETERMINED BY MANUFACTURER.  
  
MANUFACTURER: AL-FLA PLASTICS COMPANY  
3450 ARMOUR AVE  
MOBILE, AL 36617
- NEW STEEL BAR GRATING TO BE INSTALLED OVER NEW BASIN.
- NEW PVC DRAIN PIPES TO BE INSTALLED IN NEW BASIN.
- NEW SUMP PUMP TO BE INSTALLED. SEE IMAGE BELOW.
- ALL EXISTING CONCRETE SLABS TO BE RE-SEALED WITH BASF MASTERPROTECT 1000 OR APPROVED EQUAL.
- ALL WIRING FOR THE UNIT AND BACK TO THE CONTROL PANEL SHALL BE CHECKED FOR CONDITION AND REPLACED AS REQUIRED. WIRE SHALL BE PROPERLY SIZED FOR REQUIRED VOLTAGE.
- A TEMPORARY OIL/WATER SEPARATOR MUST BE PROVIDED BY THE CONTRACTOR WHILE THE CURRENT ONE IS MAINTAINED. RENTED UNIT SHALL MEET THE SPECS BELOW.

|  |                                      |
|--|--------------------------------------|
| MANUFACTURER:  | RAIN FOR RENT<br>(OR APPROVED EQUAL) |
| FLOW RATE:   | 1-125 GPM                            |
| TOTAL FLUID CAPACITY:                                  | 1,190 GALLONS                        |
| TOTAL OIL CAPACITY WITHOUT INTERFERING WITH OPERATION: | 280 GALLONS                          |
| DRAIN OFF OIL CAPACITY:                                | 90 GALLONS                           |



ALL BOLLARDS TO REMAIN & TO BE RE-PAINTED

REPLACE ALL HOSES, VALVES, SEALS, & FILTERS

SAND BLAST & PAINT

EXISTING WATER DISCHARGE PIPE TO REMAIN

REPLACE SUMP PUMP

REPLACE ALL HOSES, VALVES, & FILTERS

USED OIL

NEW C.I.P. BASIN  
BID ITEM A1: PRE-FAB PVC BASIN

CONCRETE SLABS TO REMAIN

PREP & RE-PAINT. SEE SPECIFICATIONS. REPLACE ALL HOSES, VALVES, SEALS, & FILTERS.



ALL BOLLARDS TO REMAIN & TO BE RE-PAINTED.

NEW C.I.P. BASIN  
BID ITEM A1: PRE-FAB BASIN

REMOVE UNDERGROUND DRAIN PIPE AND TRENCH BACK TO EDGE OF CONCRETE

REMOVE TRENCH DRAIN COVER, CLEAN OUT TRENCH AND FILL W/CONCRETE IN IT'S ENTIRETY.



PREP & PAINT. SEE SPECIFICATIONS.

REPLACE SLUDGE SEALS & VALVES

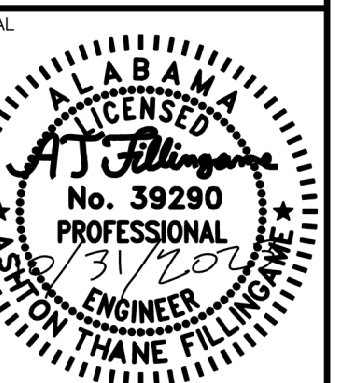
IMAGE OF EXISTING PUMP SPECS. NEW PUMP TO MATCH.

PREP & PAINT. SEE SPECIFICATIONS.

CLEAN INSIDE OF SLUDGE PAN. PREP & RE-PAINT. SEE SPECIFICATIONS.







| NO. | REVISION DESCRIPTION | DATE |
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**COMPRESSED AIR PIPING SPECIFICATION**

|  |  |   |   |
|--|--|---|---|
| <b>CS150G</b><br>CARBON STEEL PIPING (GASES) | ANSI CLSS 150                                | PRESSURE & TEMPERATURE LIMITATIONS: 175 PSIG @ 150F |   |
| SIZE   | 3/8" THRU 2"                                 | D RIP LEG BALL VALVES                               | APOLLO 70-100, 600 CWP, FULL PORT, 2 PIECE BRONZE BODY, THREADED ENDS, RPTFE SEAT, TEE HANDLE       |
| PIPE   | BCS, SCH 40, THREADED ENDS, ASTM A53, TYPE E | SHUTOFF BALL VALVES                                 | APOLLO 70-100, 600 CWP, FULL PORT, 2 PIECE BRONZE BODY, THREADED ENDS, RPTFE SEAT, LATCH LOCK LEVER |
| NIPPLES                                      | BCS, SCH 80, THREADED ENDS, ASTM A53, TYPE E |   |   |
| FITTINGS                                     | 150 PSI WSP, THREADED, ASM A197, ANSI B16.3  |   |   |
| UNIONS                                       | CLASS 300, FPT, GROUND JOINT, ANSI B16.39    |   |   |
| JOINT MATERIAL                               | ABBEY PRODUCTS "CYL-SEAL", OR EQUIVALENT     |   |   |

**COMP. AIR DEMO WORK NOTES - BID ITEM B:**

- ◇ REWORK COMP. AIR PIPING AT (15) BRANCH TERMINATION TO INSTALL DRIP LEG, COVERED UNDER NEW WORK SCOPE
- ◇ DEMO COMPRESSED AIR PIPING FROM CEILING, CAP AT DEMOLITION/CONNECTION POINT. IN FILL ANY WALL OR CEILING AREA WHERE PIPING HAS BEEN REMOVED AS NECESSARY.

**PLUMBING SCOPE OF WORK:**

1. **SCOPE:** THE SCOPE OF THE WORK IS GENERALLY INDICATED BY THE DRAWINGS AND SUMMARIZED BY THIS SCOPE OF WORK. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INDICATE ALL DETAILS OF THE INSTALLATION OF PLUMBING WORK. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE ACTUAL CONDITIONS AND REQUIREMENTS FOR THE INSTALLATION OF THE WORK.
2. **CODES & STANDARDS:** BIDDING CONTRACTORS MUST VISIT THE SITE, REVIEW ALL CONSTRUCTION DOCUMENTS, AND OBTAIN WRITTEN COPIES OF ALL REFERENCED CODES AND ORDINANCES PRIOR TO SUBMITTING BIDS. NO ALLOWANCE WILL BE MADE FOR ADVERSE CONDITIONS WHICH WERE ASCERTAINABLE PRIOR TO BID TIME.
3. **PLUMBING CODE COMPLIANCE:** COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL PLUMBING CODE AND ALL LOCAL ORDINANCES IN THE PERFORMANCE OF PLUMBING WORK REQUIRED FOR THIS PROJECT.
4. **COORDINATION:** COORDINATE THE PLUMBING WORK WITH THE WORK OF THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. OBTAIN INFORMATION REGARDING THE ROUGH-IN AND FINAL CONNECTION REQUIREMENTS FOR EQUIPMENT TO BE PROVIDED BY THE OWNER OR OTHER CONTRACTORS PRIOR TO COMMENCING WORK.
5. **CUTTING & PATCHING:** PROVIDE LABOR, EQUIPMENT AND SPECIAL SERVICES NECESSARY TO CREATE OPENING NECESSARY FOR THE PASSAGE OF PIPING AND OTHER PLUMBING WORK. APPLY A ROUGH PATCH TO CLOSE OFF UNUSED PORTIONS OF OPENINGS USING MATERIALS THAT ARE SUBSTANTIALLY SIMILAR TO THAT OF THE ADJACENT STRUCTURE. FINAL PATCH AND FINISHES WILL BE APPLIED BY THE GENERAL CONTRACTOR.
6. **MATERIALS, EQUIPMENT AND SUBMITTALS:** PROVIDE MATERIALS AND EQUIPMENT OF THE TYPE, SIZE, CAPACITY, AND QUANTITY INDICATED BY THESE DOCUMENTS. WHERE MATERIAL SPECIFICATIONS ARE NOT INDICATED, PROVIDE MATERIALS THAT COMPLY WITH THE HIGHEST QUALITY INDUSTRY STANDARD. IF NO SUCH STANDARD EXISTS, CONTACT THE ARCHITECT/ENGINEER TO ASCERTAIN THE APPROPRIATE SPECIFICATION.
7. **SUBSTITUTIONS:** THE OWNER WILL CONSIDER SUBSTITUTIONS OF THE BASE SPECIFICATION WHERE GREATER VALUE CAN BE ACHIEVED. OBTAIN THE WRITTEN PERMISSION OF THE ARCHITECT/ENGINEER PRIOR TO MAKING ANY SUBSTITUTIONS AND TAKE RESPONSIBILITY FOR THE DIMENSIONAL AND PERFORMANCE CONSTRAINTS IMPOSED BY THE SUBSTITUTED EQUIPMENT/MATERIAL.
8. **IDENTIFICATION:** PROVIDE PLUMBING SYSTEMS IDENTIFICATION TO INDICATE THE TAG, TYPE, FLOW, TEMPERATURE RANGE, CAPACITY, ETC. OF EACH ITEM OF EQUIPMENT AND ALL CONVEYANCES (PIPING SYSTEMS). PROVIDE ENGRAVED PLASTIC LAMINATE PLATES FOR EQUIPMENT, "SNAP-ON" PIPE MARKERS FOR PIPING, AND ADHESIVE BACKED PLASTICIZED MARKERS FOR DUCTWORK. PROVIDE ENGRAVED PLASTIC LAMINATE VALVE TAGS AT EACH VALVE AND A VALVE TAG SCHEDULE FRAMED UNDER GLASS.
9. **CONTROLS:** PROVIDE ALL CONTROL DEVICES, CONDUIT, CONDUCTORS, AND ACCESSORIES REQUIRED TO FURNISH AND INSTALL A COMPLETE AND OPERATING SYSTEM OF PLUMBING CONTROLS TO ACCOMPLISH THE INDICATED SEQUENCE OF OPERATION.
10. **INSTALLATION:** PROVIDE INSTALLATION OF PIPING IN AN ORDERLY MANNER. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR EQUIPMENT. INSTALL ALL VALVES WITH STEM UPRIGHT OR HORIZONTAL, NOT INVERTED. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND CLEARANCES.
11. **CONTRACT CLOSEOUT:** PROVIDE EVIDENCE THAT ALL CONTRACTUAL OBLIGATIONS HAVE BEEN MET, INCLUDING, BUT NOT NECESSARILY LIMITED TO, PROVIDING "AS-BUILT" DRAWINGS, SYSTEM COMMISSIONING REPORTS, OPERATING AND MAINTENANCE MANUALS, TRAINING OF PERSONNEL, FULLY EXECUTED PUNCHLIST, WARRANTIES, EXTENDED WARRANTIES, AND OTHER DOCUMENTS THAT MAY BE PERTINENT TO THE PLUMBING PORTION OF THE PROJECT.
12. **WARRANTY:** THE CONTRACTOR SHALL WARRANT THE WORK PROVIDED AS PART OF THIS PROJECT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE COMMISSIONING ACCEPTANCE DATE.

**PLUMBING PIPE SERVICE LEGEND**

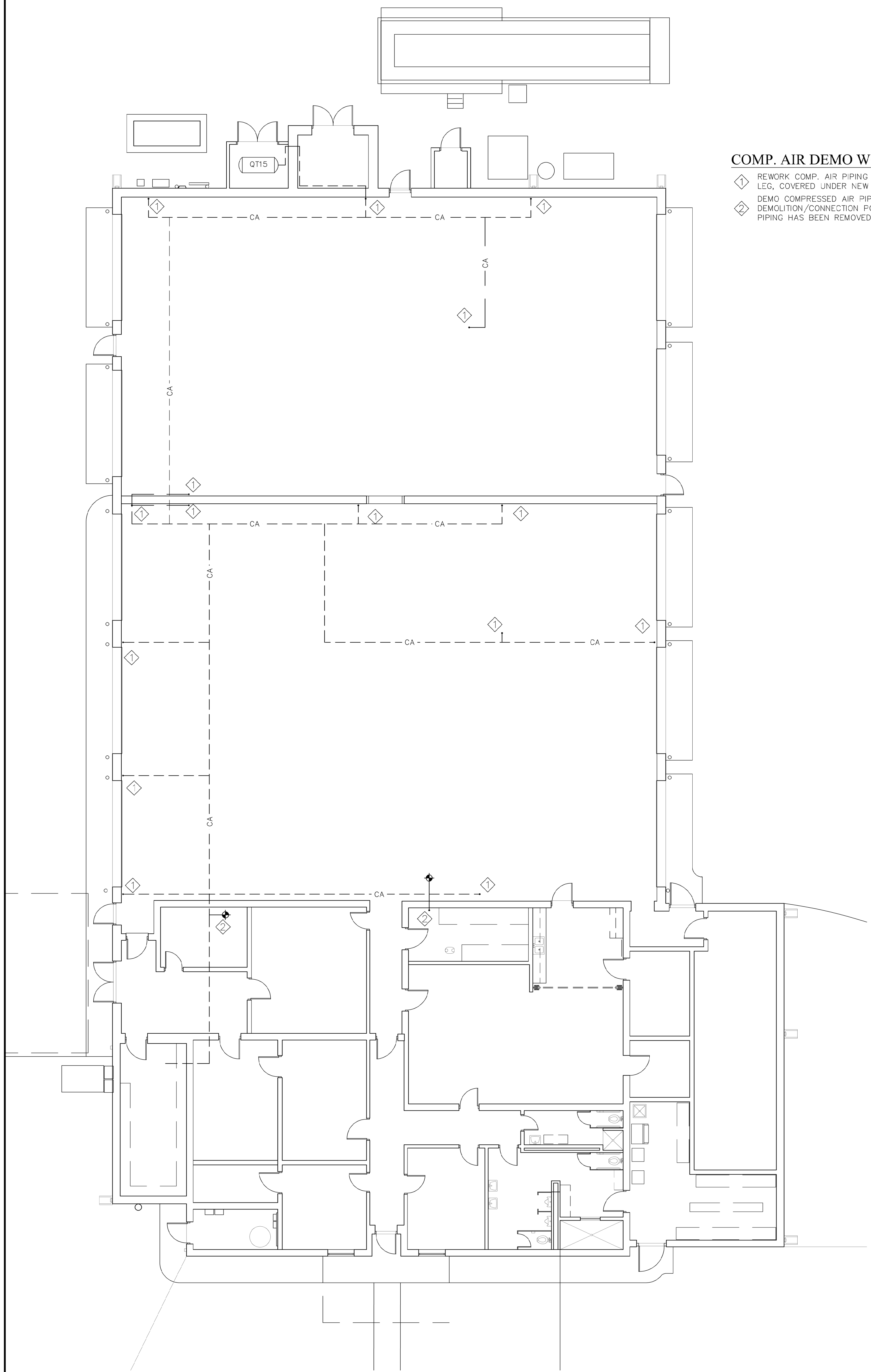
| NEW           | DESCRIPTION OF SERVICE           | NEW          | DESCRIPTION OF SERVICE         |
|---------------|----------------------------------|--------------|--------------------------------|
| ---CA---      | COMPRESSED AIR (EXISTING)        | ---S---      | SANITARY                       |
| ---CA---      | COMPRESSED AIR (NEW)             | ---SD---     | STORM DRAIN                    |
| ---CW---      | DOMESTIC COLD WATER (EXISTING)   | ---CD---     | EQUIPMENT CONDENSATE           |
| ---CW---      | DOMESTIC COLD WATER (NEW)        | ---TW---     | TEPID WATER                    |
| ---G---       | NATURAL GAS (EXISTING)           | ---UCW---    | U/G DOMESTIC COLD WATER        |
| ---G---       | NATURAL GAS (DEMO)               | ---UGD---    | U/G GREASE DRAIN               |
| ---S---       | NATURAL GAS (NEW)                | ---UHW---    | U/G DOMESTIC HOT WATER         |
| ---HW---      | DOMESTIC HOT WATER (EXISTING)    | ---UHW140--- | U/G DOMESTIC HOT WATER - 140F  |
| ---HW---      | DOMESTIC HOT WATER (DEMO)        | ---UHWRC---  | U/G DOMESTIC HOT WATER RECIRC. |
| ---HHW---     | DOMESTIC HOT WATER (NEW)         | ---US---     | UNDERGROUND SANITARY           |
| ---HW140---   | DOMESTIC HOT WATER - 140 deg     | ---USD---    | UNDERGROUND STORM DRAIN        |
| ---HWR---     | DOMESTIC HOT WATER RECIRCULATION | ---UV---     | UNDERGROUND VENT               |
| ---NAME(D)--- | EXISTING PIPING TO BE DEMOLISHED | ---V---      | VENT                           |

**PLUMBING SHEET INDEX**

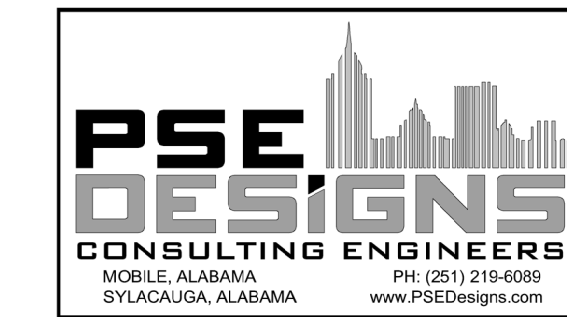
|      |  |
|------|--|
| P101 | PLUMBING GENERAL NOTES & DEMO FLOOR PLAN |
| P102 | NEW WORK/ALT BID FLOOR PLAN & SCHEMATICS |

NOTES: SHEET INDEXING IS IN ACCORDANCE WITH NATIONAL CAD STANDARD (NCS) V5.1

|                               |          |                             |                            |
|-------------------------------|----------|-----------------------------|----------------------------|
| LEVEL 1 DISCIPLINE DESIGNATOR | PI-15102 | SEQUENCE NUMBER (TWO DIGIT) | 2                          |
| - P = PLUMBING                |          | SHEET TYPE DESIGNATOR       |                            |
| LEVEL 2 DISCIPLINE DESIGNATOR |          | - 0 = GENERAL               | - 4 = DETAILS, ENCL. PLANS |
| - NOT USED                    |          | - 1 = PLANS                 | - 5 = SCHEDULES            |
|                               |          | - 2 = ELEVATIONS            | - 6 = DIAGRAMS             |
|                               |          | - 3 = SECTIONS              |                            |

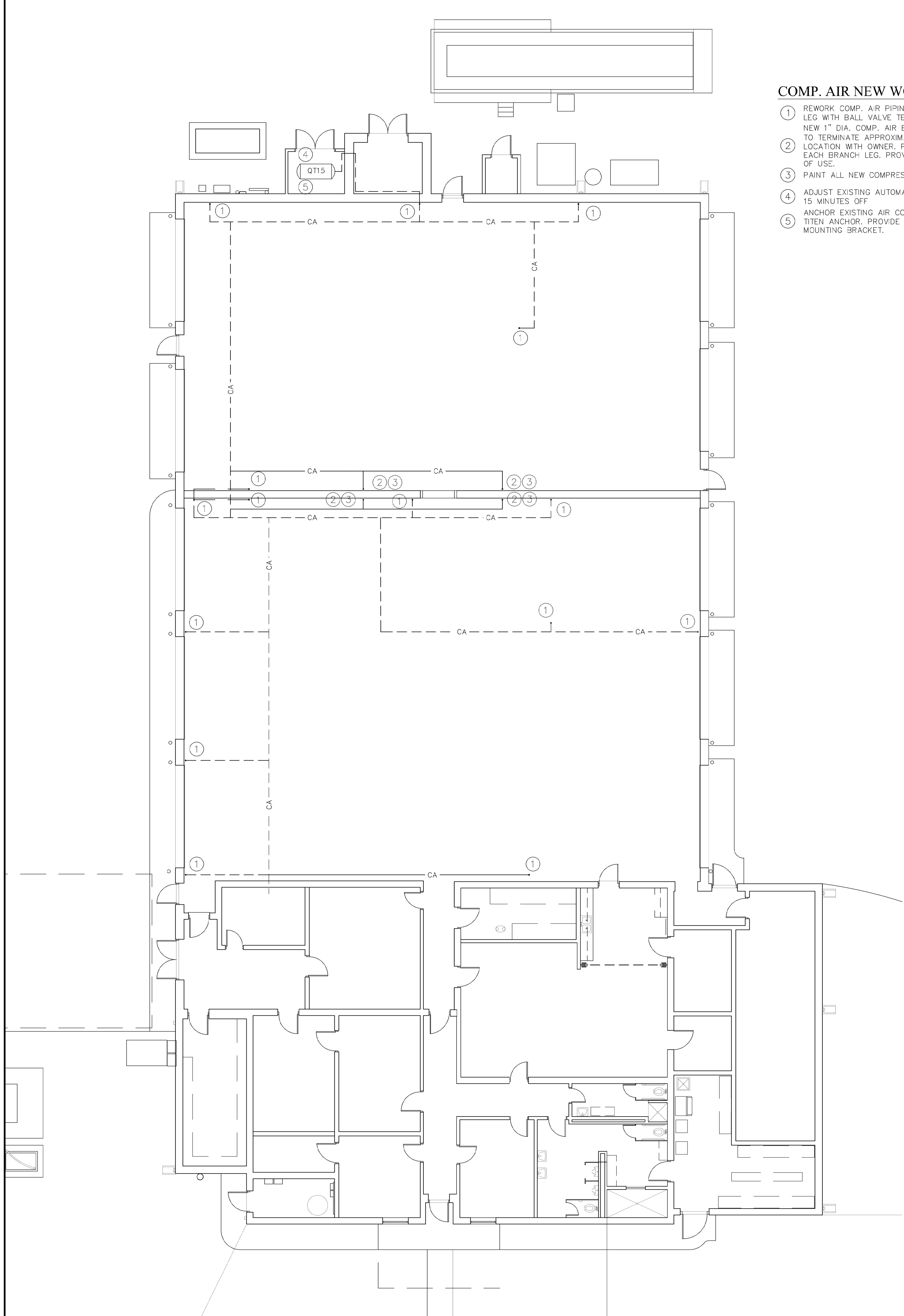


**COMPRESSED AIR EXISTING/DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"



**MOBILE (FMS 28) REPAIRS  
ARMORY COMMISSION OF ALABAMA**  
1630 S. BROAD STREET, MOBILE, ALABAMA

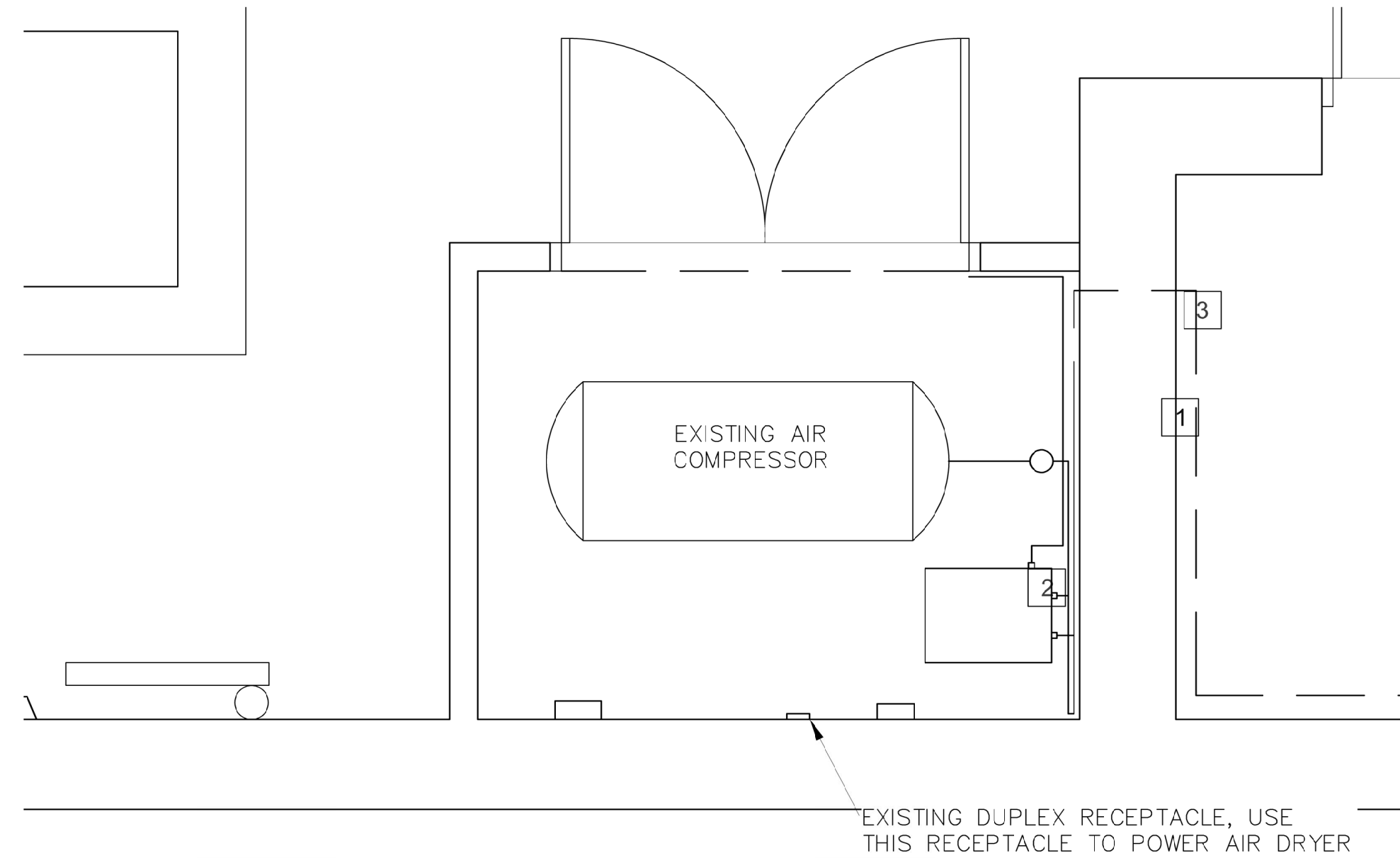




**COMP. AIR NEW WORK NOTES - BID ITEM B:**

- ① REWORK COMP. AIR PIPING AT (15) BRANCH TERMINATION TO INSTALL DRIP LEG WITH BALL VALVE TERMINATION. SEE SCHEMATIC FOR DETAILS.
- ② NEW 1" DIA. COMP. AIR BRANCH FOR LARGE IMPACT GUN USE. NEW DROPS TO TERMINATE APPROXIMATELY 36" TO 48" A.F.F. COORDINATE FINAL LOCATION WITH OWNER. PROVIDE DRIP LEG BALL VALVE AT THE BOTTOM OF EACH BRANCH LEG. PROVIDE FILTER-REGULATOR COMBINATION AT EACH POINT OF USE.
- ③ PAINT ALL NEW COMPRESSED AIR PIPING TO MATCH EXISTING.
- ④ ADJUST EXISTING AUTOMATIC COMPRESSOR TANK DRAIN TO 10 SECONDS ON/ 15 MINUTES OFF.
- ⑤ ANCHOR EXISTING AIR COMPRESSOR TO SLAB BELOW USING 1/2" SIMPSON TITEN ANCHOR. PROVIDE ISOLATOR PAD BETWEEN SLAB AND COMPRESSOR MOUNTING BRACKET.

**B**  
P102  
**COMPRESSED AIR NEW PLAN - BID ITEM B**  
SCALE: 1/8" = 1'-0"

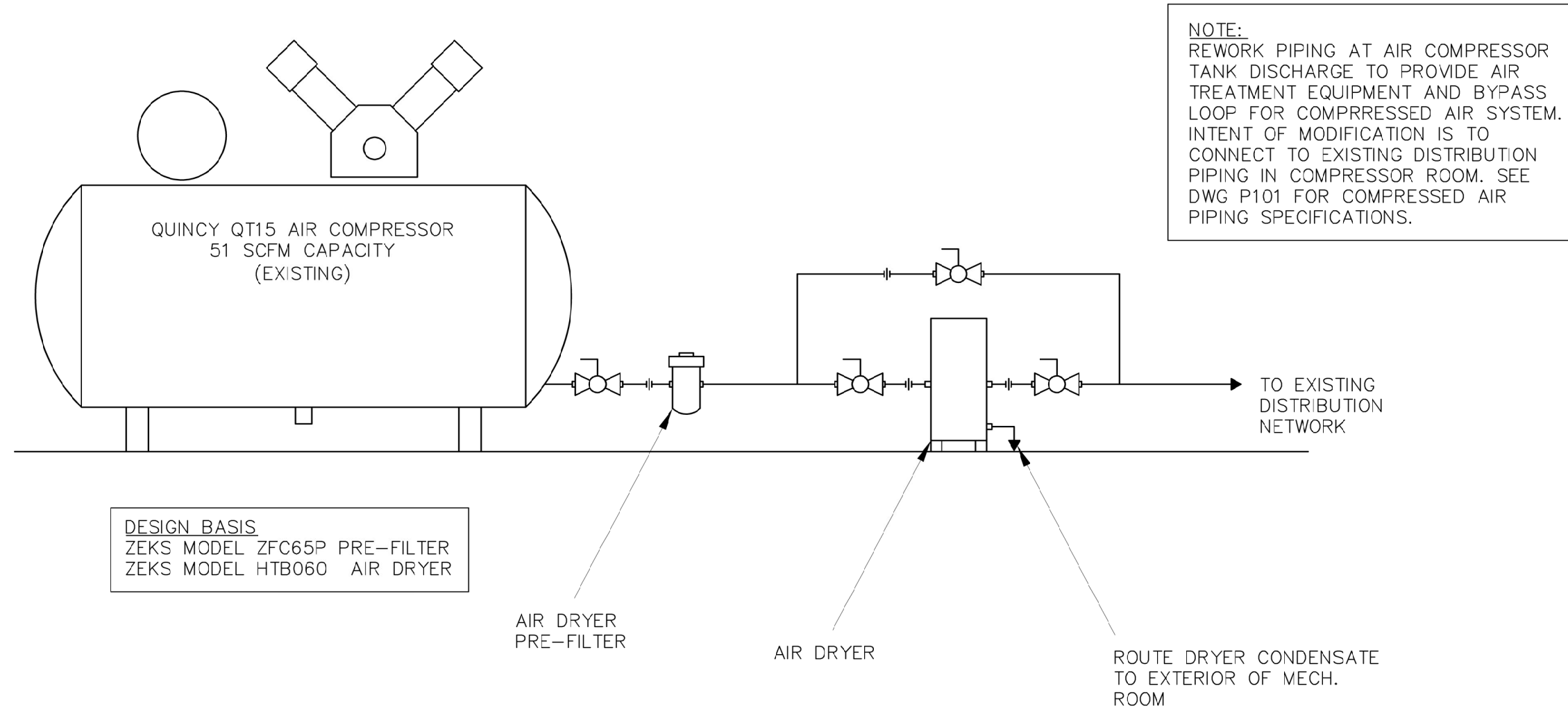


EXISTING DUPLEX RECEPTACLE. USE THIS RECEPTACLE TO POWER AIR DRYER

**E**  
P102  
**COMPRESSED AIR NEW PLAN - BID ITEM B1**  
SCALE: 1/2" = 1'-0"

**COMP. AIR ALT. BID ITEM B1 WORK NOTES:**

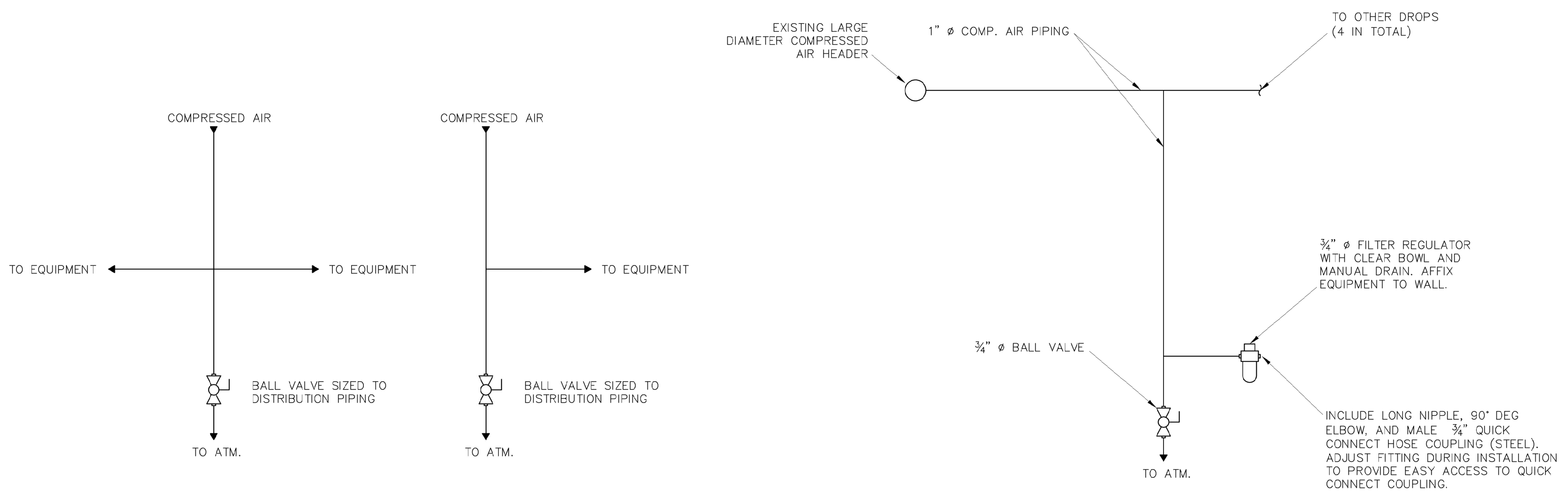
- ① NEW COMPRESSED AIR PRE-DRYER FILTER. DESIGN BASIS: ZEK'S MODEL ZFC65P
- ② NEW HI-TEMP NON-CYCLING REFRIGERANT DRYER SIZED APPROPRIATELY TO HANDLE 51 SCFM (MIN.) AT 100 DEG F INCOMING AIR TEMPERATURE. DRYER TO BE LOCATED ON EXISTING SLAB. ROUTE DRYER CONDENSATE LINE TO EXIT MECHANICAL ROOM. DESIGN BASIS: ZEK'S MODEL HTB060
- ③ REWORK COMPRESSED AIR DISTRIBUTION PIPING IN COMPRESSOR ROOM TO ACCOMMODATE NEW AIR TREATMENT EQUIPMENT. CONTRACTOR TO PROVIDE SUPPORT BRACKETS AS NECESSARY. SEE DWG P101 FOR COMPRESSED AIR PIPING SPECIFICATIONS.



NOTE:  
REWORK PIPING AT AIR COMPRESSOR TANK DISCHARGE TO PROVIDE AIR TREATMENT EQUIPMENT AND BYPASS LOOP FOR COMPRESSED AIR SYSTEM. INTENT OF MODIFICATION IS TO CONNECT TO EXISTING DISTRIBUTION PIPING IN COMPRESSOR ROOM. SEE DWG P101 FOR COMPRESSED AIR PIPING SPECIFICATIONS.

DESIGN BASIS:  
ZEK'S MODEL ZFC65P PRE-FILTER  
ZEK'S MODEL HTB060 AIR DRYER

**F**  
P102  
**COMPRESSED AIR SCHEMATIC - BID ITEM B1**  
SCALE: N.T.S.



**C**  
P102  
**COMPRESSED AIR TERMINATION SCHEMATIC**  
SCALE: N.T.S.

**D**  
P102  
**COMPRESSED AIR NEW WORK 1" DROP SCHEMATIC**  
SCALE: N.T.S.