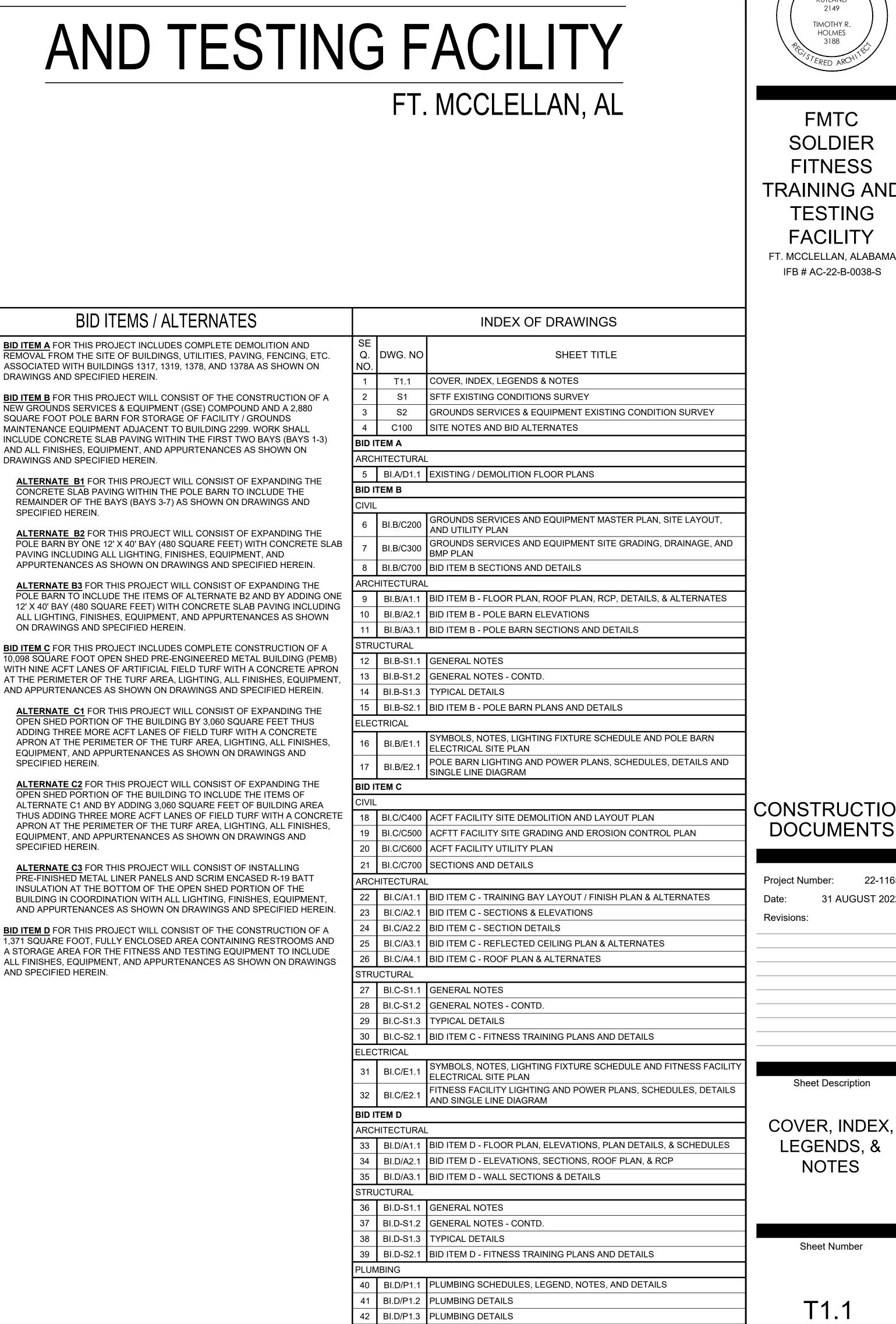
FMTC SOLDIER FITNESS TRAINING



43 BI.D/P1.4 PLUMBING DETAILS

47 BI.D/M2.1 HVAC PLAN

MECHANICAL

45 BI.D/P3.1 WATER PLUMBING PLAN

44 | BI.D/P2.1 | WASTE AND CONDENSATE PLUMBING PLAN

46 BI.D/M1.1 HVAC LEGEND, NOTES, SCHEDULES, AND DETAILS

FACE BRICK PRECAST CONCRETE PORCELAIN ENAMEL PEDESTAL (SINK) ACOUSTICAL TILE (CLG) PLASTIC LAMINATI FLASHING FLOOR PAINT FLUORESCENT **ALUMINUM** FOUNDATION PREFABRICATED FACE OF POUNDS PER SQUARE FOOT FIRE PROOF APPROXIMATI POUNDS PER SQUARE INCH FIRE PROOF HOSE BIBB PARTITION FIREPLACE PRESSURE TREATED ASPHALT TILE PAVE(D) OR PAVING **AUTOMATIC** FULL SIZE POLYVINYL CHLORIDE (PIPE) **AVERAGE** FOOTING PVMT PAVFMFN^{*} 36" WIDE BASE CAB **QUARRY TILE** GYPSUM BOARD **GENERAL CONTRACTOR** RETURN AIR **BLOCKING** GRADE OR GRADING RUBBER BASI BUILDING GARAGE DOOR OPENER RADIUS BLOCK (CMUs) GROUND FAULT INTERRUPTER RUBBI F BLOCKING GLASS OR GLAZING ROOF DRAIN GLASS BLOCK REFRIGERATOR BENCH MARK **GALVANIZED IRON** BI-PASS (DOOR) RESILIENT REVISION. REVISED REINFORCED(ING) HOSE BIBB BOTH SIDES ROOFING HOLLOW CORE BASEMEN REINFORCED JUNCTION BO HEAD OR HARD RAILING HEAT DETECTOR OR HEAVY DUTY BETWEEN RANGE W/ MICROWAVE HEADER ROOF WATER LEADER HARDWARE BOTH WAYS ROUGH OPENING RIGHT OF WAY HOLLOW METAL ROD AND SHELF(S CATCH BASII HORIZONTAL HALF ROUND SCHEDULE **CUBIC FOOT** HORIZONTAL SLIDER SMOKE DETECTOR CHAMFER HEATING/VENTILATING/AIR COND. CAST IRON SQUARE FEET HARDWOOD C.I.P. CONC.CAST-IN-PLACE CONC SAFETY GLASS SLIDING GLASS DOOR CIRCUMFERENCE SINGLE HUNG OR SHELF INSIDE DIAMETER **CONTROL JOINT** DRAWING) SHEET IN LIEU OF CALK(ING) CAULK(ING) SHEATHING INSULATED METAL CLOSET OR CENTER LINE INS / INSUL INSULATED(TION) INTERIOR LEAR(ANCE) SIDELIGHT OR SLEEVE CLOSURE OR CLOSER CENTIMETER(S) CONCRETE MASONRY UNIT SPECIFICATIONS CASED OPENING STAINLESS STEEL KITCHEN COMBINATION STANDARD KNOCKOUT CONCRETE STOR STORAGE KICKPLATE AC) CONDENSER KNEE SPACE ONSTRUCTION STRUCTURAL LAMINATE(D) CONTR CONTRACTOR LAV LAVATORY CORRUGATED SHEAR WALL LOCATION BY OTHERS LIVE LOAD TO BE DETERMINED CASEMENT LAMINATED PLASTIC TERRA COTTA CAST STONE TROWELED CONTROL JOINT CERAMIC TILE LAUNDRY TUB TEMPERED (GLASS) CENTER OR COUNTER **TONGUE & GROOVE** CONNEXTION **VENEER LUMBER** THICK(NESS) THRESHOLD TOP OF CONCRETE MAXIMUN DRYER, OR DRAIN TOP OF FOUNDATION MASONRY TOP OF MASONRY

MEDICINE CABINET

MANUFACTURER

MISCELLANEOUS

MMB MEMBRAN

MOUNTED(ING)

MASONRY OPENING

MULLION OR MULLED

NAT. GEODETIC VERTICAL DATOM

NOT IN CONTRACT

OVERHEAD CABINET

OUTSIDE DIAMETER

OPNG OPENING
OPT OPTIONAL
OSB ORIENTED STRAND BOARD

OVERHEAD GARAGE DOOR

NAILABLE

NOT TO SCALE

NOMINAL

MECHANICAL

MINIMUM

MILLIMETER

DECORATIVE

IOUBLE HUNG

DAMP-PROOFING

DRYER MACHINE

DRAWER STACK

DRAIN TILE

DISH WASHER

DETAIL

DRAWING

DRAWER

EYEBROW

EXISTING

EXHAUST

EXTERIOR

EACH FACE

ELEVATION

ELECTRIC(AL)

EXPANSION JOINT

ELECTRICAL PANEL

ELECTRIC WATER COOLER

EACH

DIMENSION

DEMOLISH, DEMOLITION

ABBREVIATIONS

VICINITY MAP

PROJECT INFORMATION

ARMORY COMMISSION FT. MCCLELLAN ADDRESS: READINESS CENTER 1720 CONGRESSMAN DICKINSON DRIVE MONTGOMERY, ALABAMA 36109 POC: ERIC HOLT, COR EMAIL: KENNETH.E.HOLT2.NFG@ARMY.MIL

DESIGN TEAM CONTACTS

JMR+H ARCHITECTURE, P.C 445 DEXTER AVENUE MONTGOMERY, AL 36104 T: (334) 420-5672 F: (334) 420-5692 CONTACT: ROBERT GARRIS, AIA

ARCHITECTURAL SYMBOLS

878 AVALON LANE ANNISTON, AL 36207

1550 WOODS OF RIVERCHASE DR. HOOVER, AL 35244

GONZALEZ-STRENGTH

& ASSOCIATES, INC

CIVIL:

TOP OF WINDOW

TOILET PAPER HOLDER

UNLESS NOTED OTHERWISE

TELEVISION OUTLET

TRANSOM

UNFINISHED

VAPOR BARRIER

VEGETABLE SINK

WATER CLOSET

WATER HEATER

WROUGHT IRON

WALK-IN CLOSET

WITH OR WITHOUT

WATER RESISTANT

WATER SOFTENER

WELDED WIRE MESH

WATERPROOF

WAINSCOT

WALL TO WALL

WIDE FLANGE

WALL HUNG

VERTICAL VINYL(SHEET)

VANITY BASE WIDTH

VINYL COMPOSITION TILE

WIDE OR WASHING MACHINE

U.N.O.

STRUCTURAL: LBYD, INC. 1100 SOUTH COLLEGE STREET SUITE 201 **AUBURN, AL 36832**

DOOR MARK

WINDOW MARK

LOUVER MARK

ROOM FINISH MARK

BRACKET MOUNTED

FIRE EXTINGUISHER

FIRE EXTINGUISHER

LARGE SCALE PLAN OR

DETAIL ENLARGEMENT

FINISH FLOOR

FINISH GRADE **ELEVATION**

ELEVATION

PLUMBING & MECHANICAL WHORTON ENGINEERING 25 SUMMERALL GATE ROAD BLDG. 2102 ANNISTON, AL 36205

INTERIOR

MARKER

BEARING

ELEVATION

ELEVATION

ELECTRICAL: MCCARTER ENGINEERING

. CONTRACTOR SHALL CHECK AND COORDINATE ALL DIMENSIONS PRIOR TO PROJECT LAYOUT. CONFIRM EXISTING CONDITIONS WILL ACCOMMODATE DIMENSIONAL CRITERIA SHOWN FOR NEW WORK, CONSTRUCTION, AND INSTALLATION. THIS CONFIRMATION WILL BE THE RESPONSIBILITY OF TH GENERAL CONTRACTOR.

GENERAL NOTES

THE FOLLOWING PRIORITIES ARE ESTABLISHED WITH REFERENCE TO

A. ALL PLUMBING WORK AND INSTALLATION SHALL BE COORDINATED

B. NO TRADE WILL TAKE UNNECESSARY ADVANTAGE OF AVAILABLE

C. ALL STRUCTURAL DESIGN & DETAILING SHALL GOVERN OVER

VIOLATING THIS PRINCIPLE SHALL BE AT THE TRADES' EXPENSE.

ARCHITECTURAL GRAPHIC REPRESENTATION WHERE APPLICABLE.

D. ALL CIVIL DESIGN & DETAILING SHALL GOVERN OVER ARCHITECTURAL

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME

FAMILIAR WITH THE CONTRACT DOCUMENTS APPLICABLE TO THIS

PROJECT PRIOR TO CONSTRUCTION. THE DRAWINGS AND SPECIFICATIONS

THE CONTRACTOR IS TO MAINTAIN A COMPLETE SET OF AS-BUIL

THESE DRAWINGS ARE SCHEMATIC IN NATURE AND NOT INTENDED TO

SHOW ALL POSSIBLE CONDITIONS, PROCEDURES, OR METHODS OF

CONSTRUCTION. IT IS INTENDED THAT A COMPLETE BUILDING AND

DRAWINGS AT THE JOB SITE. AS-BUILTS SHALL BE AVAILABLE FOR FIELD

CONSTRUCTION PROJECT BE PROVIDED WITH ALL NECESSARY EQUIPMENT

APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL

DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE

STANDARDS, AND THESE CONTRACT DOCUMENTS. ALL ITEMS, SYSTEMS

ETC. OUTLINED HEREIN SHALL BE FURNISHED WITHOUT INCURRING ANY

DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING

ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT

. COORDINATE PIPING WITH STRUCTURAL AND PLUMBING. MAKE OFFSETS

AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT

COORDINATE ALL REVIEWS OF WORK IN PLACE PRIOR TO CONCEALMENT

STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A

COMPLETE BUILDING IN ACCORDANCE WITH ALL APPLICABLE CODES,

ARE COMPLIMENTARY AND BOTH DOCUMENTS SHALL BE BINDING.

PLENUM SPACE OVER OTHER TRADES. RELOCATION OF ANY ITEMS

DISCIPLINE COORDINATION

SHOP DRAWINGS.

ADDITIONAL EXPENSE TO THE OWNER.

OF ALL INTERIOR AND EXTERIOR WORK.

FULLY TO ALLEVIATE CONFLICTS.

REPRESENTATION WHERE APPLICABLE.

OBSERVATION BY THE ARCHITECT OR ENGINEER.

DRAWINGS AND SPECIFIED HEREIN.

DRAWINGS AND SPECIFIED HEREIN. CONCRETE SLAB PAVING WITHIN THE POLE BARN TO INCLUDE THE

ALTERNATE B2 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE POLE BARN BY ONE 12' X 40' BAY (480 SQUARE FEET) WITH CONCRETE SLAB PAVING INCLUDING ALL LIGHTING, FINISHES, EQUIPMENT, AND

ALTERNATE B3 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE POLE BARN TO INCLUDE THE ITEMS OF ALTERNATE B2 AND BY ADDING ONE 12' X 40' BAY (480 SQUARE FEET) WITH CONCRETE SLAB PAVING INCLUDING ALL LIGHTING, FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN

BID ITEM <u>C</u> FOR THIS PROJECT INCLUDES COMPLETE CONSTRUCTION OF A 10,098 SQUARE FOOT OPEN SHED PRE-ENGINEERED METAL BUILDING (PEMB) WITH NINE ACFT LANES OF ARTIFICIAL FIELD TURF WITH A CONCRETE APRON AT THE PERIMETER OF THE TURF AREA, LIGHTING, ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE C1 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE OPEN SHED PORTION OF THE BUILDING BY 3,060 SQUARE FEET THUS ADDING THREE MORE ACFT LANES OF FIELD TURF WITH A CONCRETE APRON AT THE PERIMETER OF THE TURF AREA, LIGHTING, ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE C2 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE OPEN SHED PORTION OF THE BUILDING TO INCLUDE THE ITEMS OF ALTERNATE C1 AND BY ADDING 3,060 SQUARE FEET OF BUILDING AREA THUS ADDING THREE MORE ACFT LANES OF FIELD TURF WITH A CONCRETE APRON AT THE PERIMETER OF THE TURF AREA, LIGHTING, ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND

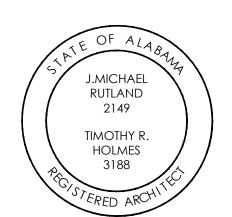
ALTERNATE C3 FOR THIS PROJECT WILL CONSIST OF INSTALLING PRE-FINISHED METAL LINER PANELS AND SCRIM ENCASED R-19 BATT INSULATION AT THE BOTTOM OF THE OPEN SHED PORTION OF THE BUILDING IN COORDINATION WITH ALL LIGHTING, FINISHES, EQUIPMENT

1,371 SQUARE FOOT, FULLY ENCLOSED AREA CONTAINING RESTROOMS AND A STORAGE AREA FOR THE FITNESS AND TESTING EQUIPMENT TO INCLUDE ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

JMR+H

Architecture, PC 445 Dexter Avenue Montgomery, Al 36104

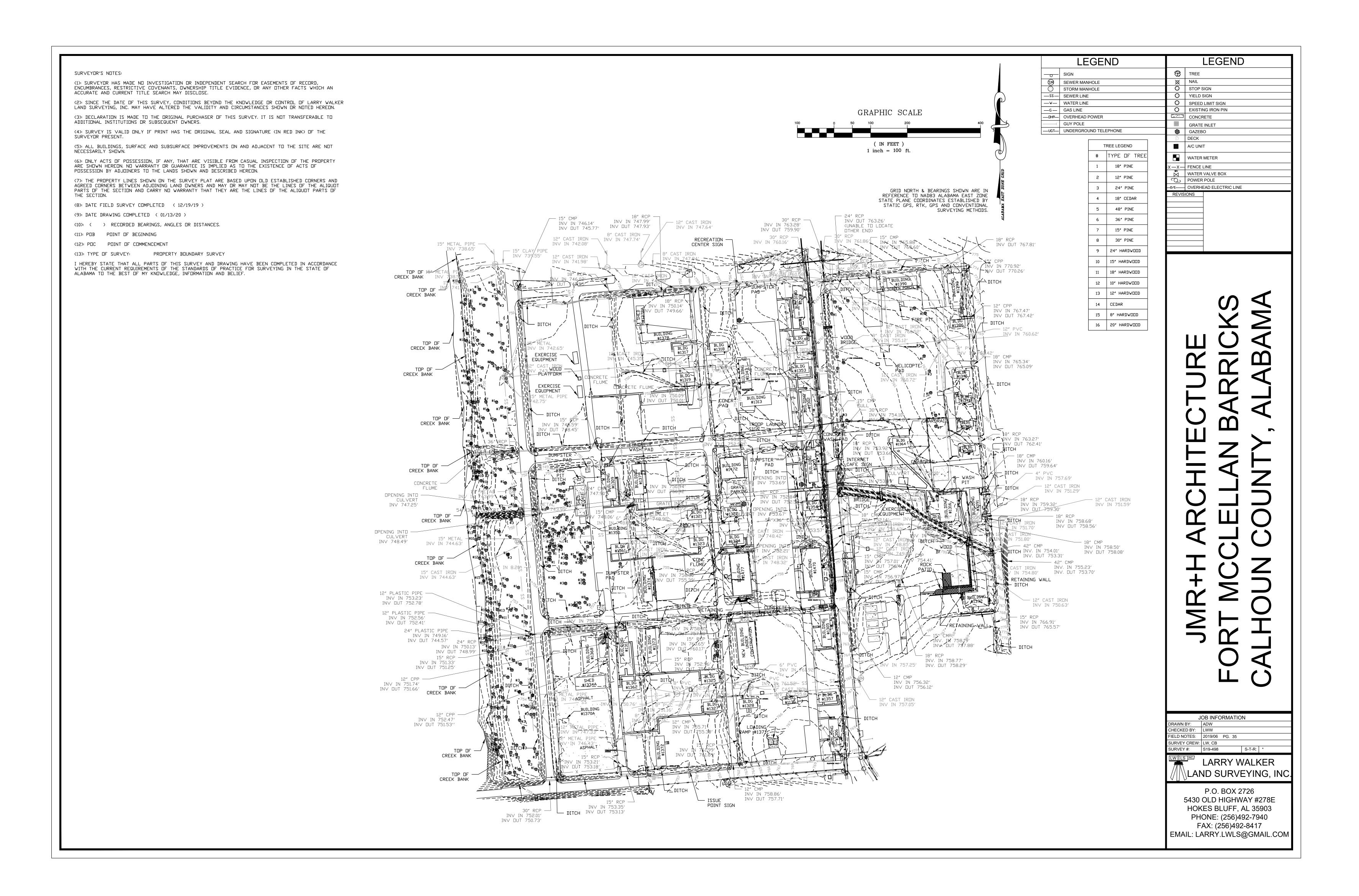
Phone: (334) 420-5672 Fax: (334) 420-5692



TRAINING AND **TESTING** FT. MCCLELLAN, ALABAMA

CONSTRUCTION

31 AUGUST 2022

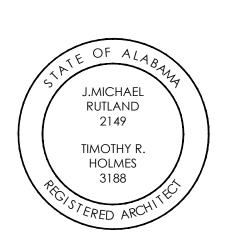




JMR+H
Architecture, PC
445 Dexter Avenue
Suite 5050

Phone: (334) 420-5672 Fax: (334) 420-5692

Montgomery, Al 36104



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TESTING
FACILITY
FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

Project Number: 22-1165

Date: 31 AUGUST 2022

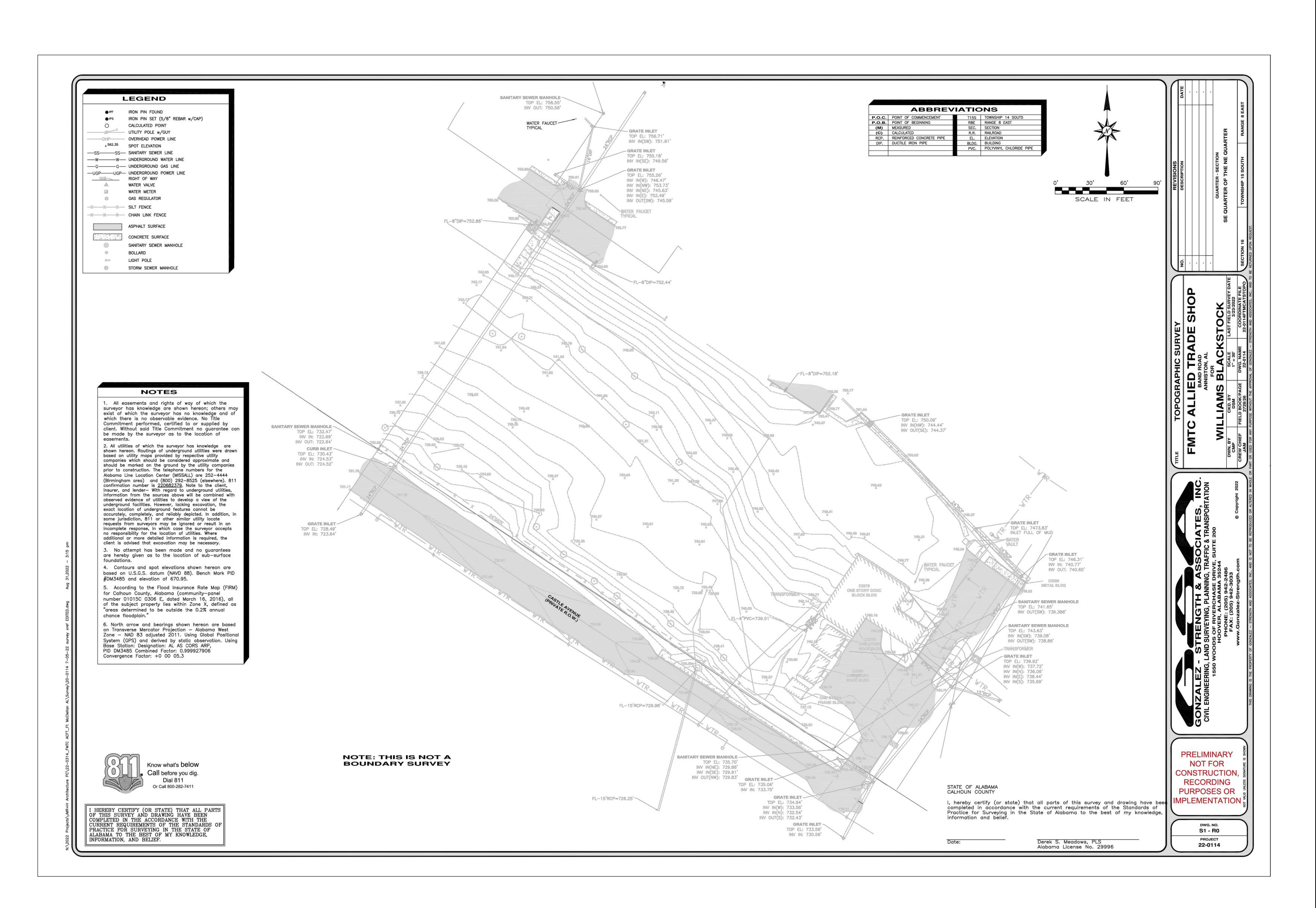
Revisions:

Sheet Description

SFTTF EXISTING CONDITIONS SURVEY

Sheet Number

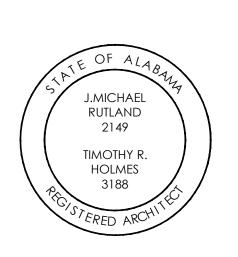
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JMR+H
Architecture, PC
445 Dexter Avenue
Suite 5050
Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



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FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

Project Number: 22-1165

Date: 31 AUGUST 2022

Revisions:

Sheet Description

GROUNDS SERVICES
AND EQUIPMENT
EXISTING CONDITIONS
SURVEY

Sheet Number

S2

- BOUNDARY AND TOPOGRAPHIC SURVEY WAS PROVIDED BY CLIENT. IF CONTRACTOR DOES NOT ACCEPT THE INFORMATION AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A BOUNDARY AND/OR TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTION ACCORDING TO AGENCY INSTRUCTION.
- 3. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING LANDSCAPING.
- 4. AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE OWNER & ENGINEER OF RECORD OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S CONSTRUCTION MANAGER, SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO USE ON THIS SITE. CONSTRUCTION MANAGER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
- 5. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT IS NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTOR'S AND
- 6. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC., AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- 7. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY
- 8. CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE 26.PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED PROJECT AND COMMENCING CONSTRUCTION.
- 9. THE CONTRACTOR SHALL USE EACH PLAN IN CONJUNCTION WITH THE ENTIRE SET OF DRAWINGS AND JOB SPECIFICATIONS. DO NOT REMOVE OR DEMOLISH ANYTHING WITHOUT VERIFYING AND COORDINATION WITH ALL ELECTRICAL, PLUMBING, MECHANICAL, GENERAL TRADES, AND UTILITY COMPANIES AS THEY
- EFFECT THE OVERALL PROJECT. 10. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, & UTILITY
- 11. CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS FOR EXACT DIMENSIONS, SLOPE PAVING, COLUMNS, DOOR LOCATIONS, SIDEWALKS, EXIT PORCHES, RAMPS, DRAINAGE CONNECTIONS, AND UTILITY ENTRANCE LOCATIONS.
- 12. SEE COVER SHEET FOR LIST OF UTILITY COMPANIES AND CONTACT PERSONS. 13. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THE CONSTRUCTION OF THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
- 14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 15. ALL WORK AND MATERIAL SHALL COMPLY WITH ALL REGULATORY AGENCY'S REGULATIONS AND CODES AND O.S.H.A. STANDARDS. 16. PRIOR TO ANY WORK ON-SITE, THE CONTRACTOR SHALL CONTACT THE ONE CALL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS
- 1. PRIOR TO CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE. CLEARING AND GRUBBING OPERATIONS WILL BE ENGAGED IN ONLY AS NECESSARY TO ALLOW THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN UNTIL ALL SUCH MEASURES ARE IN PLACE. LAND DISTURBING ACTIVITIES SHALL BE KEPT TO A MINIMUM AND WILL NOT EXTEND BEYOND THE LIMITS SHOWN.
- 2. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO ANY EARTHWORK OPERATIONS.

WHETHER LOCATED BY THE ONE CALL SYSTEM OR NOT.

- 3. SILT FENCES SHALL BE CLEANED OR REPLACED WHEN TRAPPED SEDIMENT REACHES 50 PERCENT OF THE ABOVE GROUND FENCE HEIGHT OR PER MANUFACTURER'S SPECIFICATIONS.
- 4. SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED ON A DAILY BASIS AND REPAIRED, ADJUSTED AND MAINTAINED AS NEEDED OR REQUIRED BY GOVERNING AGENCIES AT NO ADDITIONAL EXPENSE TO THE OWNER TO PROVIDE 7. CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT. EROSION AND SEDIMENT CONTROL FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE STABILIZED
- 5. ALL EROSION CONTROL MEASURES EXCEPT THE REQUIRED RIP RAP ARE TEMPORARY DEVICES. THESE TEMPORARY DEVICES SHALL BE REMOVED PRIOR TO COMPLETION OF CONSTRUCTION ONCE STABILIZATION OF ALL GRASSED AREAS ARE COMPLETE.
- 6. ADDITIONAL DEVICES MAY BE REQUIRED AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
- 7. ALL GRADED AREAS SHALL BE STABILIZED WITH A PERMANENT FAST GROWING COVER AND/OR MULCH UPON COMPLETION OF GRADING OPERATIONS. COMPLETION OF GRADING OPERATIONS DOES NOT MEAN AT THE END OF THE PROJECT. AS SOON AS FINAL GRADES ARE ESTABLISHED IN AN UNPAVED AREA, THE CONTRACTOR SHALL STABILIZE WITH A TEMPORARY GRASS OR PERMANENT SOD. IF A TEMPORARY GRASS IS APPLIED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO APPLY A PERMANENT SEED OR SOD AT THE PROPER TIME OF
- 8. FILL SLOPES SHOULD BE PLANTED AS SOON AS AN AREA OF THE SITE IS BROUGHT TO FINAL GRADE. SURFACE RUNOFF SHALL BE INTERCEPTED AT THE TOP OF TEMPORARY AND PERMANENT SLOPES DURING CONSTRUCTION SO THAT WATER IS NOT ALLOWED TO FLOW OVER THE SLOPE FACE.
- 9. THE GENERAL CONTRACTOR AND THE GRADING CONTRACTOR SHALL REVIEW THERE PROPOSED GRADING SEQUENCE TO INSURE THAT THE LEAST AMOUNT OF LAND POSSIBLE AT ANY ONE TIME IS DISTURBED WITH OUT PERMANENT STABILIZATION.
- 10. CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE COMPLIANCE WITH ALL PERMIT REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, INSPECTION REQUIREMENTS.

GENERAL DEMOLITION NOTES & SPECIFICATIONS:

- THE WORK AS SHOWN ON THE DEMOLITION PLAN. 2. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING UTILITIES PRIOR TO
- DEMOLITION AND EXCAVATION. 3. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS IN THE REMOVAL/DEMOLITION OF HAZARDOUS
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL REGISTRATIONS, PERMITS AND FEES REQUIRED TO REMOVE AND PROPERLY DISPOSE OF ALL DEMOLITION MATERIALS.
- 5. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVALS AND NOTIFICATIONS TO ALL LOCAL, STATE AND FEDERAL AUTHORITIES. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF THE
- UTILITY SERVICES TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION OF ANY BUILDINGS. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. 7. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING
- PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS NOT RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE 16. ALL RIGHT-OF-WAY STRIPING SHALL BE THERMOPLASTIC. REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL 17. ALL PAINT STRIPING SHALL BE APPLIED IN TWO EQUAL COATS TO A TOTAL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE, THICKNESS OF 15 MILS. COMPACT FILL MATERIAL PER THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED AND IS RESPONSIBLE FOR REMOVING
- AND DUMPING THE DEBRIS IN AN APPROVED, LAWFUL MANNER. 9. IF NOT SHOWN ON THE DEMOLITION DRAWINGS, THE CONTRACTOR SHALL REMOVE 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER ALL EXISTING MATERIALS AS NECESSARY TO COMPLETE ALL NEW WORK AS AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
- RIGHT-OF-WAY. ALL EXISTING METERS, VALVES, ETC. ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS. 11. ALL EXISTING SERVICE LINES FOR TELEPHONE, ELECTRIC, SEWER, AND CABLE
- TELEVISION SERVICES ARE TO BE REMOVED TO EXISTING TRUNK LINES UNLESS OTHERWISE NOTED. 12. ALL EXISTING FENCES, SIGNS, POWER POLES, AND LIGHT POLES LOCATED
- ON-SITE SHALL BE DEMOLISHED AND REMOVED UNLESS OTHERWISE NOTED. 13. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INVOLVED IN THE REMOVAL OR RELOCATION OF ANY UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR

COORDINATION WITH APPLICABLE UTILITY COMPANIES.

AS REQUIRED BY ALABAMA LAW

CALL 2 WORKING DAYS

BEFORE EXCAVATION

ALABAMA LINE LOCATION CENTER, INC.

14. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING ADJACENT BUSINESSES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE
7. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING WITH THE TENANT AND UTILITY COMPANY FOR THE RELOCATION AND/OR REMOVAL OF UTILITIES IF NECESSARY. SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE TENANT.

- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES THAT MAY HAVE UTILITIES ON THE SITE TO GET A DETERMINATION IF ANY UTILITIES EXISTING WILL BE IMPACTED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF THE UTILITIES SHOULD BE ABANDONED OR REMOVED. 16. ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES,
- CONDUITS, AND/OR UTILITY STRUCTURES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH SELECT BACKFILL MATERIAL. ALL SELECT BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED PER THE REQUIREMENTS OF SPECIFICATIONS AND THE OWNERS GEOTECHNICAL ENGINEER. 17. EXISTING CAST IN PLACE SEPTIC TANKS (IF FOUND ON-SITE) SHALL BE PUMPED BY
- A LICENSED CONTRACTOR. THE SEPTIC TANK SHALL THEN BE REMOVED AND THE AREA BACKFILLED PER THE PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS. 18. CONTRACTOR IS RESPONSIBLE FOR WALKING SITE AND DETERMINING EXTENTS
- OF DEMOLITION WORK PRIOR TO BID DATE.
- 19. CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING ELECTRICAL SERVICES ON-SITE WITH THE POWER COMPANY. POWER COMPANY IS RESPONSIBLE FOR THE DISCONNECTION AND REMOVAL OF EXISTING SERVICES UNLESS OTHERWISE
- 20.LIMITS OF PAVEMENT SHOWN TO BE REMOVED ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY THE LIMITS OF PAVEMENT TO DETERMINE THE EXTENT OF THE EXISTING PAVEMENT TO BE REMOVED. 21.SALVAGE RIGHTS FOR ALL DEMOLISHED MATERIALS SHALL BE FIRST GIVEN TO THE
- FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S 22.CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSE WILL BE

OWNER. ANY MATERIALS NOT RETAINED BY THE OWNER SHALL BE REMOVED

- MAINTAINED BY OWNER AS FAR AS PRACTICAL. 23.CONTRACTOR TO MAINTAIN AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING DEMOLITION OPERATIONS. 24.DRAIN, PURGE AND OTHERWISE REMOVE COLLECT AND DISPOSE OF CHEMICALS,
- CASES, EXPLOSIVES, ACIDS, FLAMMABLES OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS ACCORDING TO APPLICABLE CODES OR REGULATIONS. 25.REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON
- ADJACENT SURFACES AND AREAS. MATERIALS TO ACCUMULATE ON-SITE. 27.DO NOT BURN DEMOLISHED MATERIALS.
- 28.IT IS UNDERSTOOD THAT ALL ABOVE GROUND ITEMS TO BE REMOVED INCLUDE THEIR ASSOCIATED BELOW GROUND COMPONENTS (I.E. FOUNDATIONS, UTILITY CONNECTIONS, ETC.) 29.ALL TREES INSIDE THE LIMITS OF DISTURBANCE ARE TO BE REMOVED UNLESS NOTED OTHERWISE.
- 30.EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED PER PLANS. ALL COST SHALL BE INCLUDED IN BASE
- I. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED FOR ALL SITE IMPROVEMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE
- APPROVED BY SUCH. 2. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION. 3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS
- INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION. 4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING
- IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC, AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS. 5. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SYSTEMS, AND ANY OTHER MISCELLANEOUS UTILITIES) SHALL BE IN PLACE PRIOR TO THE PLACEMENT
- OF BASE COURSE MATERIAL, AND THE PLACEMENT OF ANY APPROPRIATE SOIL STABILIZATION TECHNIQUE. 6. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS. 8. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND

1. ALL DIMENSIONS SHOWN TO BUILDING ARE TO FACE OF STRUCTURAL CMU. 2. ALL CURB DIMENSIONS ARE TO THE FACE OF GUTTER OF CURB UNLESS OTHERWISE NOTED.

IMPROVEMENTS SHALL BE CONSTRUCTED TO THE SAME.

- PAVING & STRIPING NOTES: 1. NOTIFY OWNER 3 DAYS PRIOR TO POUR OF INITIAL SECTION OF DRIVEWAY PAVING. CLIENT REPRESENTATIVE TO APPROVE INITIAL POUR.
- 2. TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN AGENCY, APPROVED BY THE OWNER, FOR TESTING MATERIALS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
- 3. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION.
- 4. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STATE DOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES. THE CONTRACTOR SHALL REVIEW ALL
- TRAFFIC CONTROL DEVICES WITH DOT PRIOR TO INSTALLATION. 5. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS
- STRIPING WITHIN PARKING LOT AND AROUND BUILDING. 6. SEE IRRIGATION PLANS AND MEP PLANS PRIOR TO PAVING FOR LOCATION OF PROPOSED SLEEVING AND CONDUITS. EXTRA CONDUIT SHALL BE PLACED UNDER
- DRIVEWAYS FOR FUTURE USE THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED TO CARRY OUT 7. ALL ACCESSIBLE RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 2010.
 - 8. CONTRACTOR TO SUBMIT A POURING PLAN TO THE CONSTRUCTION MANAGER PRIOR TO THE BEGINNING OF ANY PAVING WORK PAVING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR ON THE
 - CONSTRUCTION AND PAVING NEAR THE SCREENING WALLS AND THE DUMPSTER 10. ALL DISCREPANCIES FOUND BY CONTRACTOR RELATED TO UNDERGROUND
 - UTILITIES OR OTHER APPURTENANCES SHALL BE RESOLVED TO THE SATISFACTION OF OWNER AND ENGINEER PRIOR TO PLACEMENT OF ANY PAVING. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN SUBGRADE OF AREAS TO BE PAVED, AND NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND PRIOR TO INSTALLATION OF ANY
 - 11. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
 - 12. ALL JOINTS SHALL EXTEND THROUGH THE CURB. 13. COMPACTION SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF
 - THE GEOTECHNICAL REPORT. 14. ALL PAVEMENT TO BE SLOPED FOR POSITIVE DRAINAGE.

1. EXISTING CONTOURS INTERVAL IS SHOWN AT ONE FOOT (1').

BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.

- IMPROVEMENTS SHOWN ON THE PLANS.
- 10. ALL EXISTING UTILITIES ARE TO BE REMOVED, TERMINATED AND CAPPED AT THE 3. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED. 4. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO 5. CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY

GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF

- ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION. 6. EXISTING DRAINAGE STRUCTURES TO REMAIN ARE TO BE INSPECTED AND REPAIRED AS NEEDED. AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL
- SILTS AND DEBRIS. IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO. DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. AND ALL REPAIRS SHALL

- 8. ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE FOUR INCHES (4") OF TOPSOIL, SEED, MULCH, WATER, ETC. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE LANDSCAPE PLAN AND CITY/COUNTY SPECIFICATIONS UNTIL HEALTHY STAND OF GRASS IS OBTAINED. 9. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND
- SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS. 10. CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS
- WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT. 11. REFERENCE STRUCTURAL SPECIFICATIONS AND GEOTECHNICAL REPORT FOR
- BUILDING PAD PREPARATION AND COMPACTION. 12. CONTRACTOR TO REVIEW BORING LOGS PROVIDED BY THE CLIENT 13. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH
- PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING AND COVERS. 14. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
- 15. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 16. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND FOR ALL NATURAL AND PAVED AREAS.
- 17. ALL RETAINING WALLS TO BE PROTECTED DURING BACKFILL BY CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO, PROVIDING AND INSTALLING PROPER BRACING DURING BACKFILL BEING PLACES ADJACENT TO RETAINING WALLS.

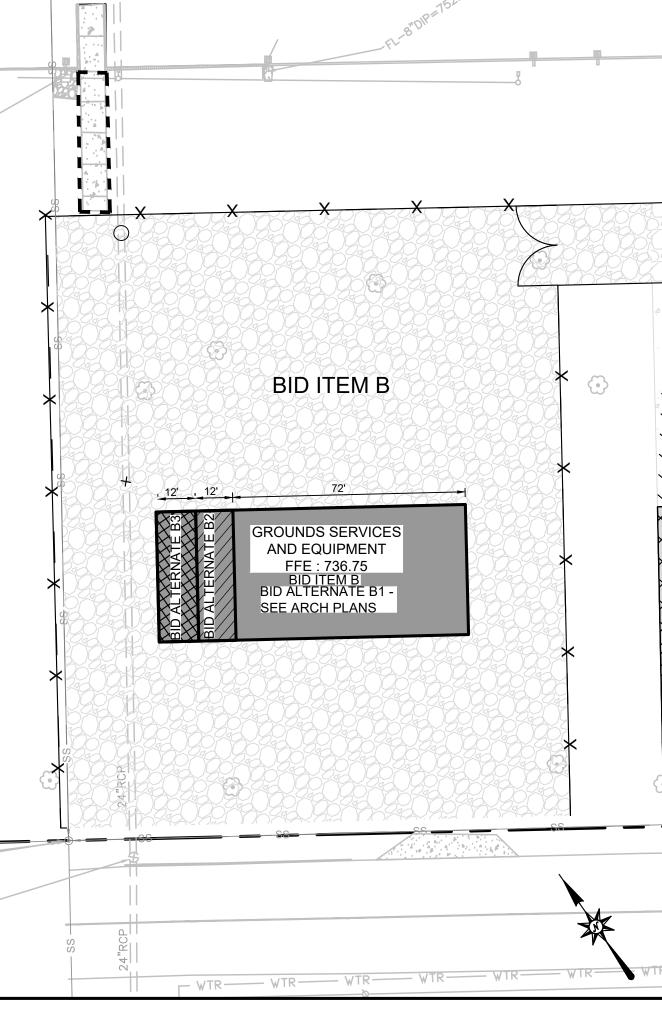
STORM DRAINAGE NOTES:

- 1. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE SEALED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT. 2. REFERENCE DETAIL SHEETS FOR STORM WATER DETAILS.
- 3. THE CONTRACTOR SHALL SUBMIT BUOYANCY CALCULATIONS ON ALL RUNS OF PIPE THAT DO NOT UTILIZE CONCRETE PIPE. BUOYANCY CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY A REGISTERED ENGINEER, SHALL REPRESENT ACTUAL FIELD CONDITIONS, AND SHALL DEMONSTRATE THAT THE PIPE UTILIZED WILL NOT BECOME BUOYANT UNDER ANY CONDITIONS. THE CONTRACTOR MAY ELECT TO PROVIDE A RESTRAINING SYSTEM, DESIGNED BY A REGISTERED ENGINEER, ADEQUATE TO RESIST BUOYANT FORCES WHERE NECESSARY.

- 1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) AS SHOWN ON THE THESE PLANS IS BASED ON RECORD ON EITHER THE VARIOUS UTILITY COMPANIES, VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY
- COMPANY AT LEAST FORTY-EIGHT HOURS (48 HRS) BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL
- EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER AND ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION. 4. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING
- IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS. 5. CONTRACTOR SHALL REFER TO ARCHITECTS PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER
- LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPHONE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO LOCATIONS AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
- 6. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, & TELEPHONE COMPANY FOR ACTUAL ROUTING OF POWER AND TELEPHONE SERVICE TO BUILDING.
- 7. SEE DETAIL SHEETS FOR BACKFILLING AND COMPACTION REQUIREMENTS ON UTILITY TRENCHES. 8. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST
- STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE PERFORMANCE CRITERIA FOR OSHA.
- 9. CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ASSURE PROPER DEPTH AND PREVENT ANY CONFLICT OF UTILITIES.
- 10. THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN (10) FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN (18) INCHES.
- 11. CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER
- 12. CONTRACTOR SHALL ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION. 13. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION
- OF THE RESPECTIVE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES. 14. SITE CONTRACTOR TO COORDINATE PROPOSED RECONNECTION OF ALL UTILITIES WITH ARCHITECTURAL PLANS AS WELL AS UTILITY COMPANIES AND BUILDING CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL EXPENSES THAT RESULT FROM DELAYED OR FAILED TEST DURING ANY PHASE OF THE CONSTRUCTION PROCESS. THIS INCLUDES FEES INCURRED THROUGH
- RESCHEDULING OF ANY EQUIPMENT TO ACCOMMODATE. 15. ALL WATER AND SANITARY SEWER CROSSINGS TO BE PERPENDICULAR WITH A FULL STICK OF DUCTILE IRON PIPE IN THE SEWER LINES AT THE CROSSING OR AS INDICATED ON THE PLANS.
- 16. CONTRACTOR TO COORDINATE WITH SIGNAGE CONTRACTOR AND ARCHITECT FOR EXACT LOCATION OF SIGNAGE, REQUIRED ELECTRICAL CONDUITS, FOUNDATIONS, ETC.
- 17. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS. 18. GEOTECHNICAL REPORT IS AVAILABLE FROM BUILDING AND EARTH FOR THE SFTTF SITE. NO REPORT IS AVAILABLE FOR THE GROUNDS SERVICES AND EQUIPMENT SITE.



VICINITY MAP



GROUNDS SERVICE & EQUIPMENT BID ITEMS

BID ITEMS / ALTERNATES

SPECIFIED HEREIN.

BID ITEM A FOR THIS PROJECT INCLUDES COMPLETE DEMOLITION AND REMOVAL FROM THE SITE OF BUILDINGS, UTILITIES, PAVING, FENCING, ETC. ASSOCIATED WITH BUILDINGS 1317, 1319, 1378, AND 1378A AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

BID ITEM B FOR THIS PROJECT WILL CONSIST OF THE CONSTRUCTION OF A NEW GROUNDS SERVICES & EQUIPMENT (GSE) COMPOUND AND A 2.880 SQUARE FOOT POLE BARN FOR STORAGE OF FACILITY / GROUNDS MAINTENANCE EQUIPMENT ADJACENT TO BUILDING 2299. WORK SHALL INCLUDE CONCRETE SLAB PAVING WITHIN THE FIRST TWO BAYS (BAYS 1-3) AND ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE B1 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE CONCRETE SLAB PAVING WITHIN THE POLE BARN

ALTERNATE B2 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE POLE BARN BY ONE 12' X 40' BAY (480 SQUARE FEET) WITH CONCRETE SLAB PAVING INCLUDING ALL LIGHTING, FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

TO INCLUDE THE REMAINDER OF THE BAYS (BAYS 3-7) AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE B2 AND BY ADDING ONE 12' X 40' BAY (480 SQUARE FEET) WITH CONCRETE SLAB PAVING INCLUDING ALL LIGHTING, FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. BID ITEM C FOR THIS PROJECT INCLUDES COMPLETE CONSTRUCTION OF A 10,098 SQUARE FOOT OPEN SHED

AT THE PERIMETER OF THE TURF AREA, LIGHTING, ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON

ALTERNATE B3 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE POLE BARN TO INCLUDE THE ITEMS OF

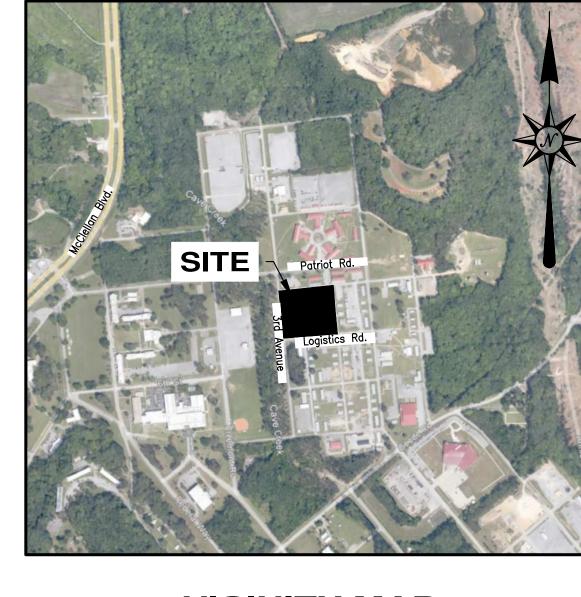
DRAWINGS AND SPECIFIED HEREIN. ALTERNATE C1 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE OPEN SHED PORTION OF THE BUILDING BY 3,060 SQUARE FEET THUS ADDING THREE MORE SFTTF LANES OF FIELD TURF WITH A CONCRETE APRON AT THE PERIMETER OF THE TURF AREA. LIGHTING. ALL FINISHES. EQUIPMENT. AND APPURTENANCES AS SHOWN ON DRAWINGS AND

PRE-ENGINEERED METAL BUILDING (PEMB) WITH NINE SFTTF LANES OF ARTIFICIAL FIELD TURF WITH A CONCRETE APRON

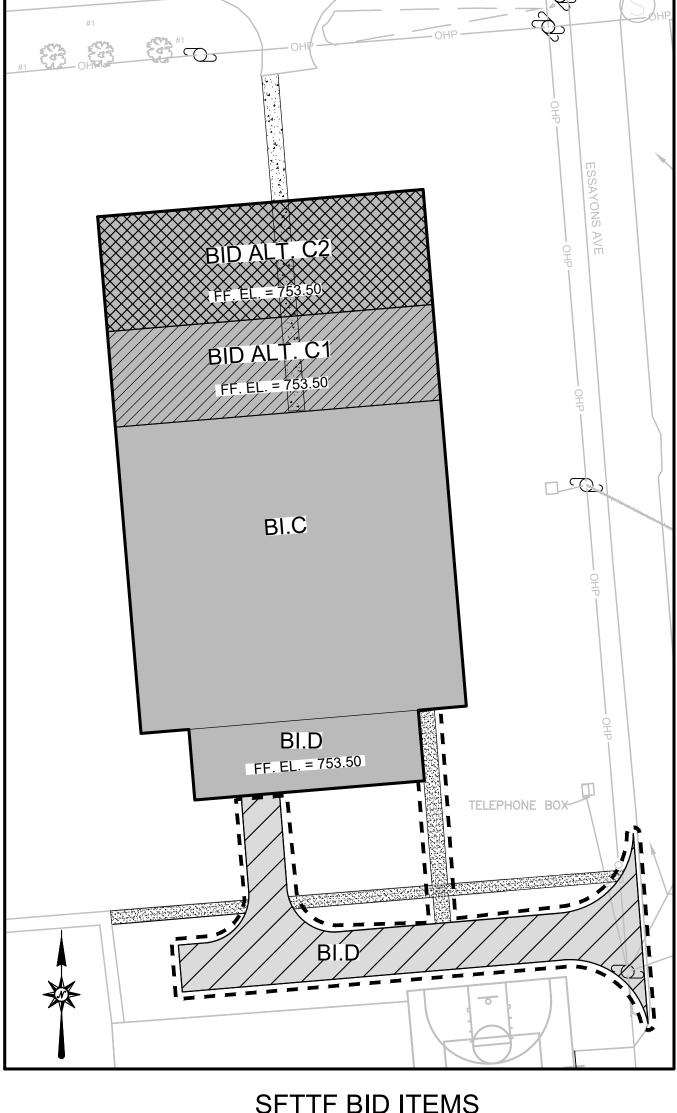
ALTERNATE C2 FOR THIS PROJECT WILL CONSIST OF EXPANDING THE OPEN SHED PORTION OF THE BUILDING TO INCLUDE THE ITEMS OF ALTERNATE C1 AND BY ADDING 3,060 SQUARE FEET OF BUILDING AREA THUS ADDING THREE MORE SFTTF LANES OF FIELD TURF WITH A CONCRETE APRON AT THE PERIMETER OF THE TURF AREA, LIGHTING, ALL FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

ALTERNATE C3 FOR THIS PROJECT WILL CONSIST OF INSTALLING PRE-FINISHED METAL LINER PANELS AND SCRIM ENCASED R-13 BATT INSULATION AT THE BOTTOM OF THE OPEN SHED PORTION OF THE BUILDING IN COORDINATION WITH ALL LIGHTING, FINISHES, EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.

BID ITEM D FOR THIS PROJECT WILL CONSIST OF THE CONSTRUCTION OF A 1,371 SQUARE FOOT, FULLY ENCLOSED AREA CONTAINING RESTROOMS AND A STORAGE AREA FOR THE FITNESS AND TESTING EQUIPMENT TO INCLUDE ALL FINISHES. EQUIPMENT, AND APPURTENANCES AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN.



VICINITY MAP



SFTTF BID ITEMS

NOTE: AS A FIRST ORDER OF BUSINESS AND PRIOR TO ANY WORK BEGINNING, THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES ON AND ADJACENT TO THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATIONS OF THE UTILITIES AND AVOID ALL CONFLICTS. ANY SERVICE INTERRUPTIONS AND/OR ASSOCIATED COSTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTING UTILITIES SHOWN HEREIN ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL RELOCATE ANY EXISTING UTILITY WHICH CONFLICTS WITH THE IMPROVEMENTS SHOWN. THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITIES COMPANIES. ALL IMPROVEMENTS SHALL MEET THE REQUIREMENTS OF EACH COMPANY'S STANDARDS OR SPECIFICATIONS.

GONZALEZ - STRENGTH & ASSOCIATES, INC. 2176 PARKWAY LAKE DRIVE BIRMINGHAM, ALABAMA 35244 PHONE: (205) 942-2486

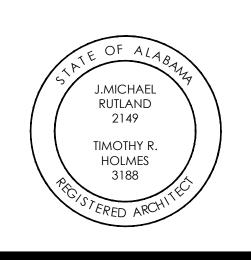
FAX: (205) 942-3033

www.Gonzalez-Strength.com

Architecture, PC 445 Dexter Avenue Suite 5050

Phone: (334) 420-5672 Fax: (334) 420-5692

Montgomery, Al 36104



FMTC FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S



CONSTRUCTION **DOCUMENTS**

Project Number: 31 AUGUST 2022

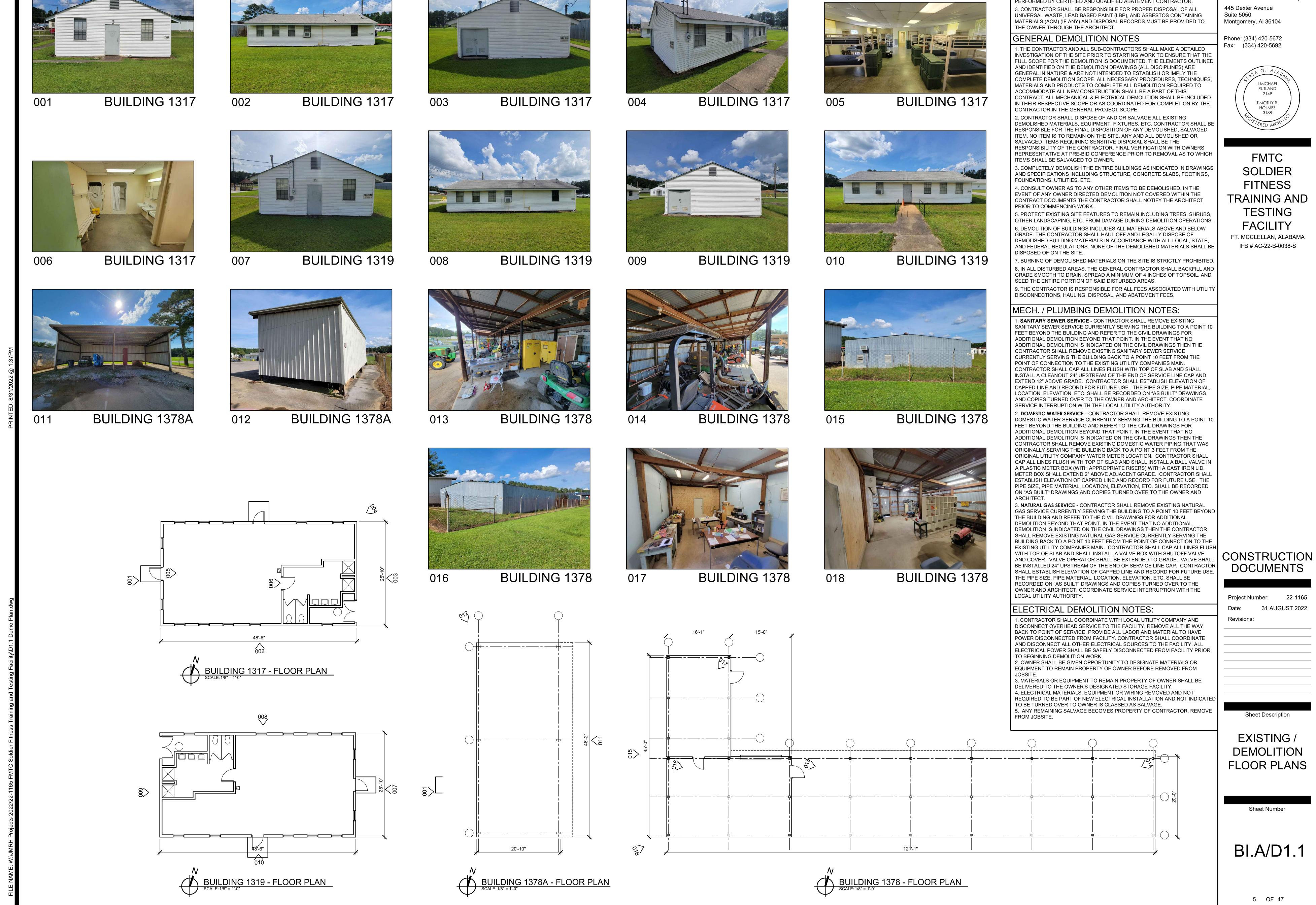
Revisions

Sheet Description

SITE NOTES AND BID

ALTERNATES

Sheet Number



ABATEMENT GENERAL NOTES:

JMR+H

Architecture, PC

RUTLAND

TIMOTHY R.

FMTC

SOLDIER

FITNESS

TESTING

FACILITY

FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

1. REMOVE ANY AND ALL ASBESTOS CONTAINING MATERIALS ENCOUNTERED. 2. CONTRACTOR IS TO ENSURE THAT ALL LOCAL, STATE, AND FEDERAL GUIDELINES AND REQUIREMENTS ARE FOLLOWED FOR ALL ABATEMENT AND HAZARDOUS MATERIAL DISPOSAL. ALL ABATEMENT / DISPOSAL MUST BE PERFORMED BY CERTIFIED AND QUALIFIED ABATEMENT CONTRACTOR.

Sheet Description

DEMOLITION FLOOR PLANS

BI.A/D1.1

EXISTING /

31 AUGUST 2022

EXISTING RETAINING WALL TO REMAIN -

BID ITEM B

AND EQUIPMENT

GROUNDS SERVICES AND EQUIPMENT LIMITS OF WORK

BID ITEM B

EXISTING RETAINING WALL TO REMAIN -

EXISTING PARKING LOT

FUTURE

HVAC

SHOP

FFE: 737.75

CASTLE AVENUE (PRIVATE R.O.W.)

BID ITEM B

AND EQUIPMENT

SEE ARCH PLANS

SEE ARCH PLANS FOR BOLLARD

EXISTING PARKING LOT

FUTURE

HVAC SHOP

FFE: 737.75

FUTURE

WORK

HVAC SHOP

N.I.C

CASTLE AVENUE (PRIVATE R.O.W.)

MASTER PLAN SITE LAYOOUT

1' = 30'

NOT IN

CONTRACT

FUTURE ALLIED

SHOPS

LAYOUT/UTILITY PLAN

1' = 30'

FFE: 737.75

- WTR-WTR-WTR-WTR-

GROUNDS SERVICES AND EQUIPMENT — LIMITS OF WORK

BID ITEM B

CONTRACT

FUTURE ALLIED

SHOPS FFE: 737.75

- FUTURE ALLIED SHOPS \pm

NOT IN CONTRACT (N.I.C)

FUTURE RETAINING WALL





VICINITY MAP

LAYOUT/UTILITY NOTES

BID ITEM B

1) 8" DENSE GRADE AGGREGATE BASE REQ'D

2 SECURITY FENCING REQ'D. SEE ARCH PLANS.

(3) VEHICLE ACCESS GATE REQ'D. SEE ARCH PLANS.

1" SERVICE TAP TO EX. WATER MAIN REQ'D. CONTACT ANNISTON WATERWORKS AND SEWER BOARD FOR FEES AND REQUIREMENTS (TYP.)

5 CUT AND PATCH EXISTING PAVEMENT IN LIKE KIND REQ'D (TYP.)

6 1" DOMESTIC WATER METER REQ'D IN ACCORDANCE WITH ANNISTON WATER WORKS AND SEWER BOARD MINIMUM STANDARDS AND REQUIREMENTS

7 1" BACKFLOW PREVENTER REQ'D IN ACCORDANCE WITH ANNISTON WATER WORKS AND SEWER BOARD MINIMUM STANDARDS AND REQUIREMENTS

8 1" DOMESTIC WATER SERVICE (TYPE K COPPER) REQ'D. PROVIDE $\frac{3}{4}$ " FREEZE PROOF WATER SPIGOT AT THE CORNER OF THE BUILDING. SEE DETAIL (TYP.)

9 OVERHEAD POWER REQ'D. CONTRACTOR TO COORDINATE POWER SERVICE WITH ALABAMA POWER CO.

(10) POLE MOUNTED TRANSFORMER AND METER REQ'D. SEE SITE ELECTRICAL PLANS.

EXISTING SECURITY FENCING BEYOND PROJECT LIMITS AND ALONG CASTLE AVENUE TO REMAIN AND TIE TO PROPOSED FENCING IMPROVEMENTS TO PROVIDE SECURE PERIMETER. (TYP.)

(12) SAWCUT AND REMOVE EXISTING CONCRETE STEPS (TYP.)

(13) SANITARY SEWER MAIN TO REMAIN. CONTRACTOR TO PROTECT AT ALL TIMES DURING CONSTRUCTION. SEE SANITARY SEWER WEST PROFILE ON THIS SHEET.

BID ALTERNATE B2

BID ALTERNATE B3

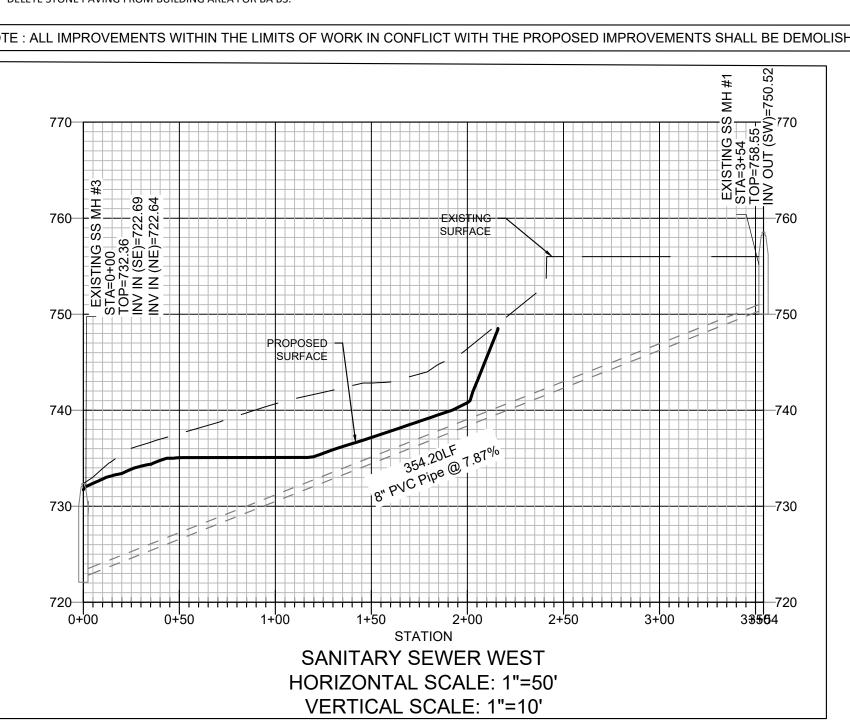
1"=30'

GRAPHIC SCALE

DELETE STONE PAVING FROM BUILDING AREA FOR BA B2

DELETE STONE PAVING FROM BUILDING AREA FOR BA B3.

NOTE: ALL IMPROVEMENTS WITHIN THE LIMITS OF WORK IN CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE DEMOLISHED



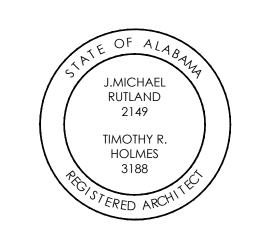
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JMR+H

Architecture, PC 445 Dexter Avenue Suite 5050 Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



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CONSTRUCTION DOCUMENTS

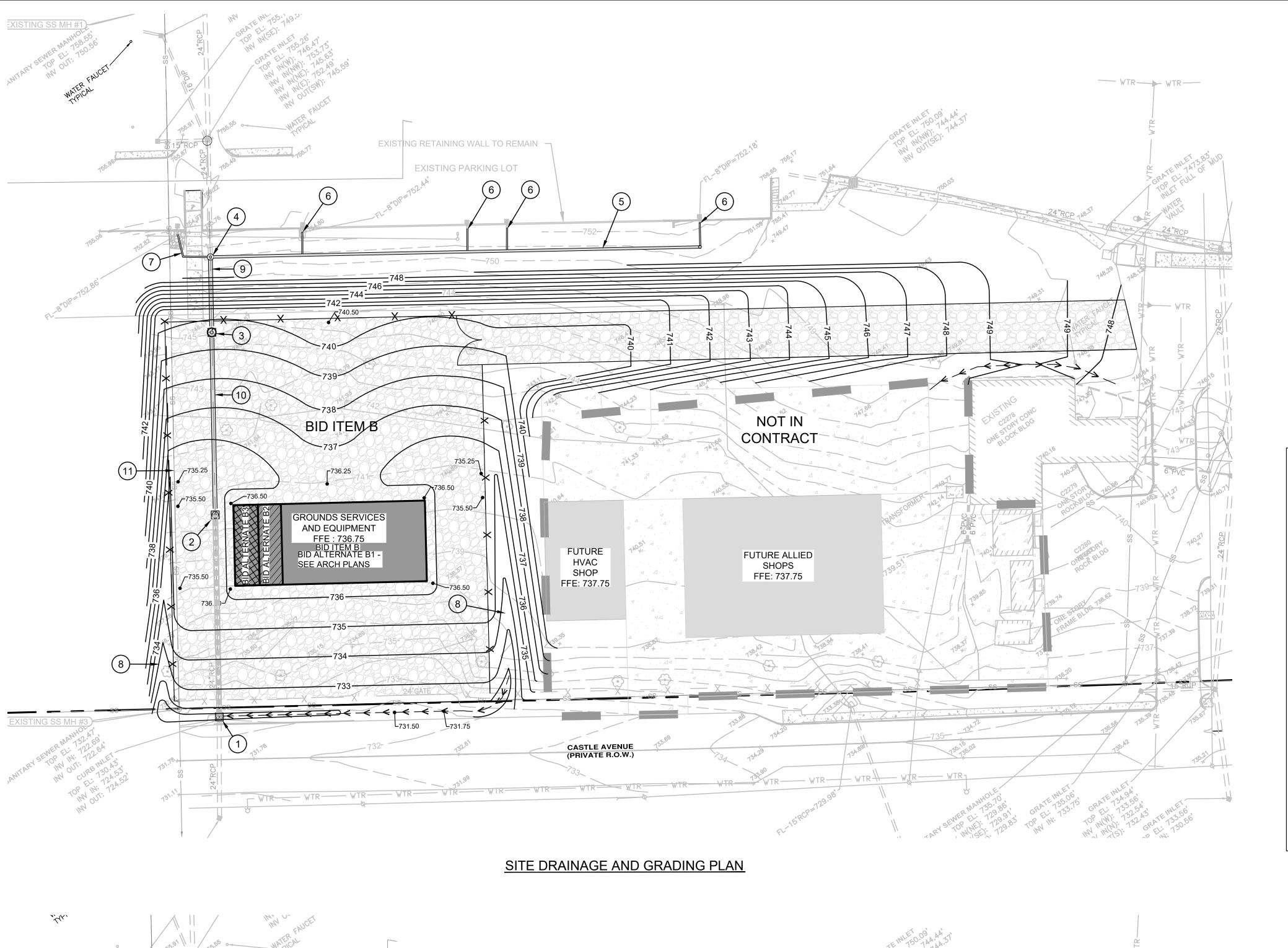
Project Number: 22-1165 31 AUGUST 2022 Revisions:

Sheet Description

GROUNDS SERVICES AND EQUIPMENT MASTER PLAN, SITE LAYOUT, AND UTILITY PLAN

Sheet Number

BI.B/C200



EXISTING RETAINING WALL TO REMAIN -

EXISTING PARKING LOT

WTR WTR WTR WTR WTR WTR

748 744 MB TS PS

ROUNDS SERVICES
AND EQUIPMENT
FFE: 736.75
BID ITEM B
BID ALTERNATE B1 -

EE ARCH PLANS

SITE GRADING AND DRIANAGE NOTES
BID ITEM B

THROAT EL = 730.00
INVERT (IN) = 724.75
INVERT (OUT) = 724.52

STORM MANHOLE # 2REQ'D. PROVIDE CONCRETE APRON (TYP)
TOP ELEV: 735.79
INVERT ELEV: 731.79

3 STORM MANHOLE #3 REQ'D. PROVIDE CONCRETE APRON (TYP)
TOP ELEV: 739.70

INVERT ELEV: 735.70

STORM MANHOLE #4 REQ'D.
TOP ELEV: 751.00

INVERT ELEV: 746.50 (15" HDPE IN)

INVERT ELEV: 741.20

INVERT ELEV: 748.50 (8" HDPE IN)

250 LF 15" HDPE STORM REQ'D. SLOPE @1% MINIMUM GRADE.
 TIE EXISTING 8" DIP STORM LATERAL TO PROPOSED 15" HDPE STORM.

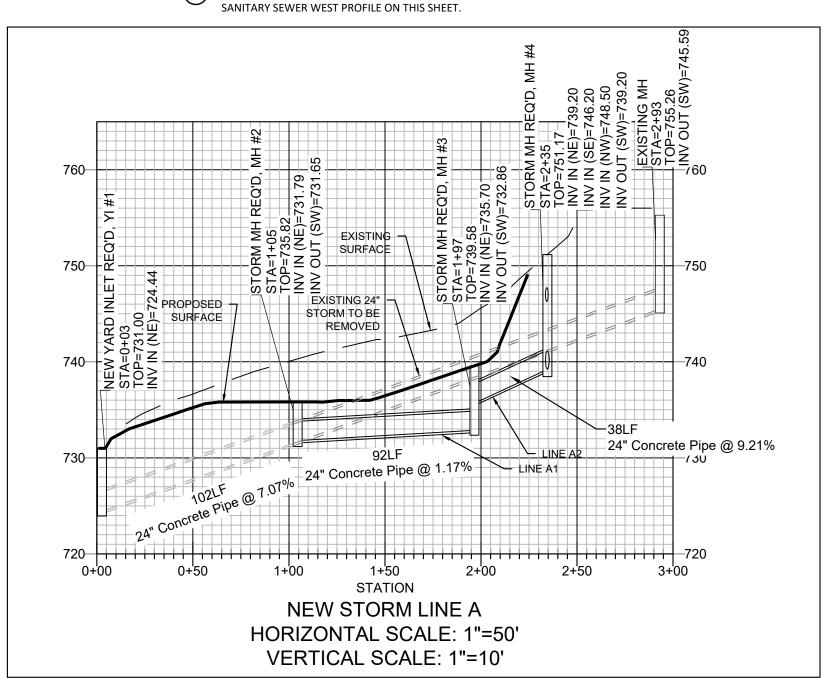
7 25 LF 8" HDPE STORM PIPE REQ'D. SLOPE AT %1 MIN GR. TIE TO PROPOSED MANHOLE. ASSURE WATER TIGHT CONNECTION.

8 1' DEEP SOLID SOD V-DITCH REQ'D.

9) STORM LINE A2 38 LF 24" RCP STORM REQ'D.

STORM LINE A1 92 LF 24" RCP STORM REQ'D.

EXISTING SEWER MAIN TO REMAIN. CONTRACTOR TO PROTECT AT ALL TIMES DURING CONSTRUCTION. SEE SANITARY SEWER WEST PROFILE ON THIS SHEET.



SITE EROSION CONTROL NOTES BID ITEM B

CE CONSTRUCTION EXIT REQD.

TEMPORARY SEEDING REQD.

LOD LIMITS OF DISTURBANCE

PS PERMANENT SEEDING REQD.

SS SOLID SOD REQD.

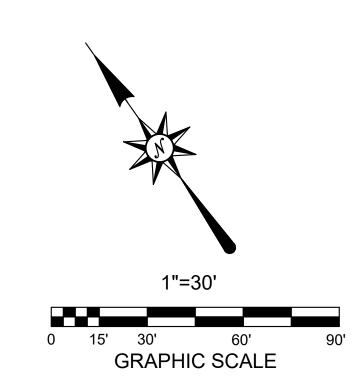
MB) MATTING AND BLANKET

IP INLET PROTECTION

FEMA 100 YEAR BASE FLOOD ELEVATION: 750

DISTURBANCE AREA: 1.65 ACRES

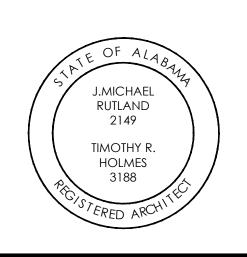
ADEM PERMIT WILL BE REQ'D.





JMR+H
Architecture, PC
445 Dexter Avenue
Suite 5050
Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



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TRAINING AND
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FACILITY
FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S



CONSTRUCTION DOCUMENTS

Project Number: 22-1165

Date: 31 AUGUST 2022

Revisions:

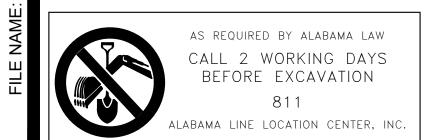
Sheet Description

GROUNDS SERVICE AND EQUIPMENT SITE GRADING, DRAINAGE, AND BMP PLAN

Sheet Number

BI.B/C300

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EROSION CONTROL PLAN

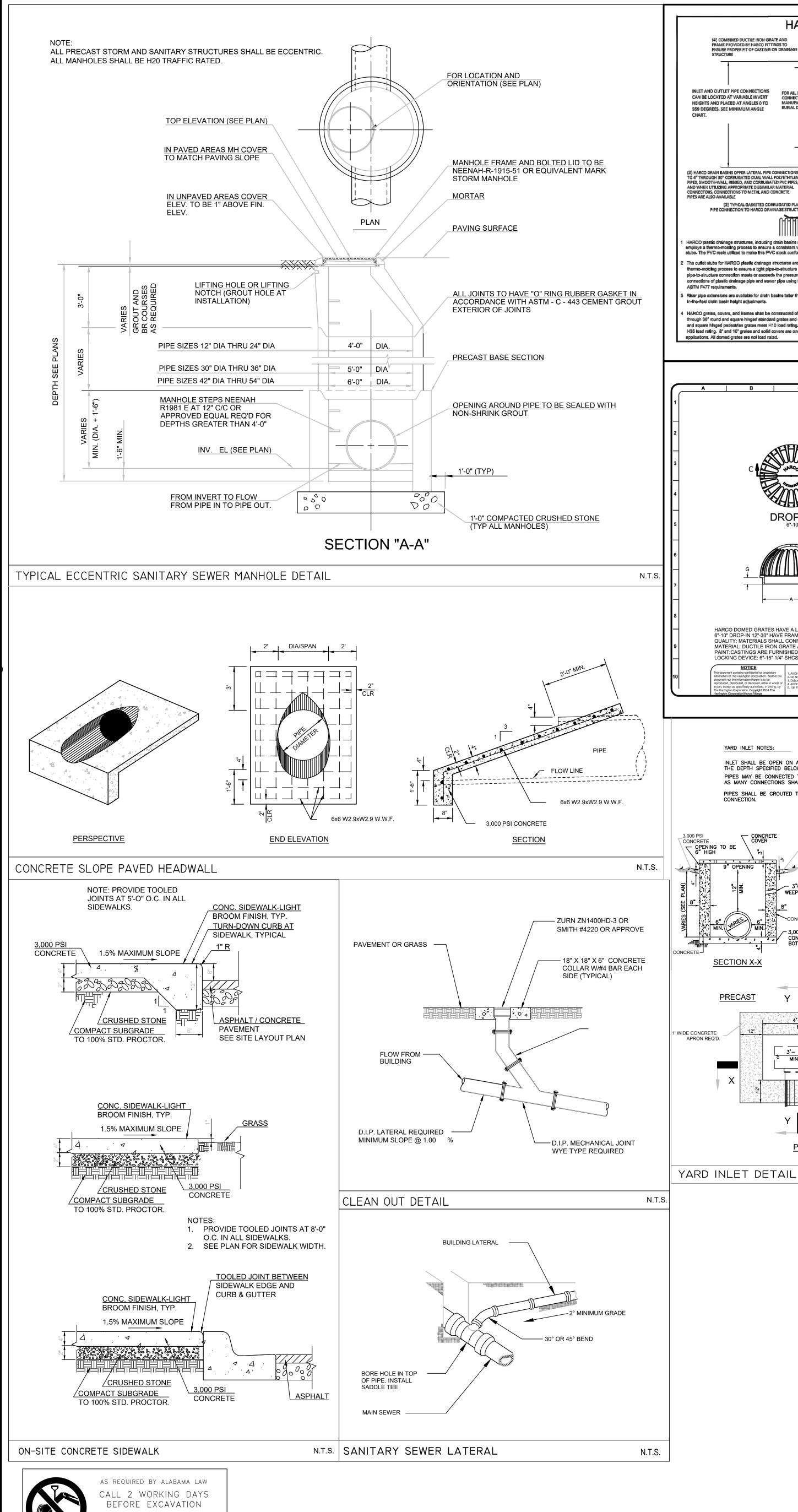
FUTURE HVAC SHOP FFE: 737.75

> CASTLE AVENUE (PRIVATE R.O.W.)

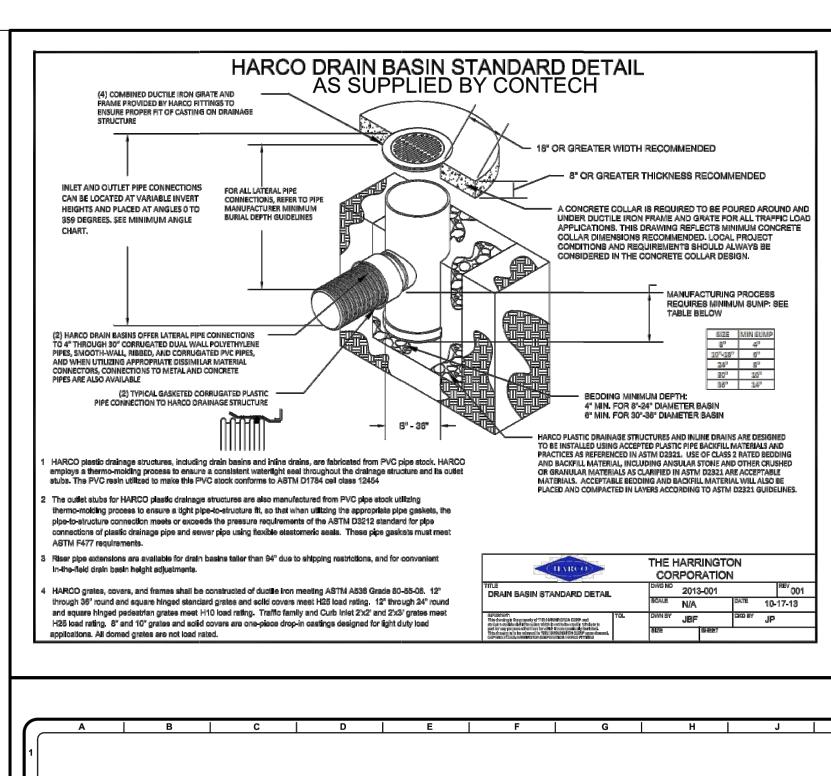
CONTRACT

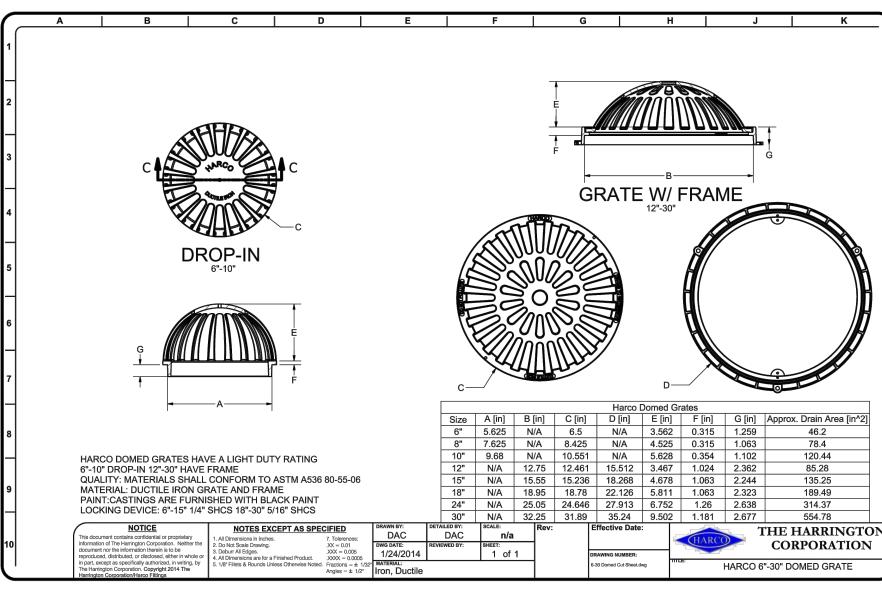
FUTURE ALLIED SHOPS FFE: 737.75

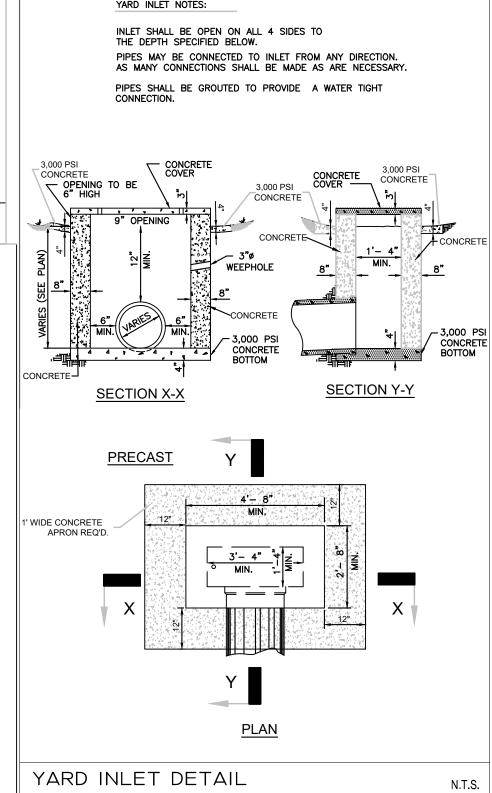
WTR WTR WTR WTR WTR



LABAMA LINE LOCATION CENTER, INC.



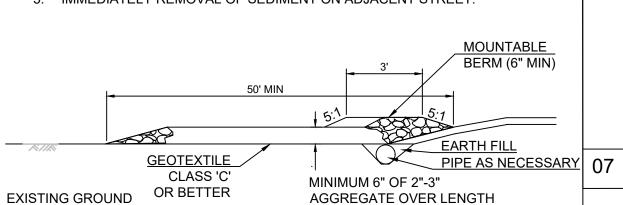




NOTE TO GC: THE GOAL OF A CONSTRUCTION EXIT AND ASSOCIATED WHEEL WASH AREAS IS TO ELIMINATE TRACK OUT. SIMPLY MANAGING TRACK OUT THROUGH DESIGNATED OR CONTINUAL STREET SWEEPING IS NOT AN ACCEPTABLE PRACTICE. WHILE STREET SWEEPING IS AN ACCEPTABLE PRACTICE FOR REMOVING DUST AND MINIMAL AMOUNTS OF FINE SEDIMENT, OBSERVABLE TRACK OUT FROM THE PROJECT SHOULD TRIGGER THE USE OF ADDITIONAL MEASURES (WHEEL WASH), CONSIDERATION OF ALTERNATE EXITS, OR DISCONTINUING VEHICLE TRAFFIC UNTIL CONDITIONS ON-SITE HAVE IMPROVED. TRACK OUT IS A SEDIMENT RELEASE.

MAINTENANCE NOTES

- 1. EXIT SHALL BE INSPECTED ALONG ITS ENTIRETY AND MUST BE CLEANED WHEN SEDIMENT/MUD IS PRESENT ON THE SURFACE OF THE STONE. 2. ALL MATERIAL REMOVED FROM THE STONE SHALL BE STOCKPILED ON AN
- UPLAND PORTION OF THE SITE IF SUITABLE FOR REUSE. 3. RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE.
- 4. TOP DRESS WITH CLEAN STONE AS NEEDED. 5. IMMEDIATELY REMOVAL OF SEDIMENT ON ADJACENT STREET.

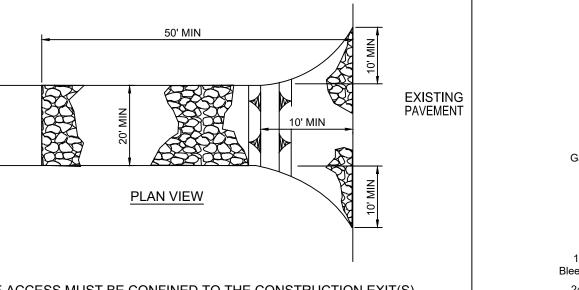


2"-3" CLEAN STONE

FUNCTION: Used where an above ground water outlet is required in areas which are subject to freezing temperatures

CLASS I RIPRAP UNLESS

SPECIFIED OTHERWISE ON



AND WIDTH OF STRUCTURE

NOTES:

ALL SITE ACCESS MUST BE CONFINED TO THE CONSTRUCTION EXIT(S). BARRICADE TO PREVENT USE OF ANY LOCATIONS OTHER THAN THE CONSTRUCTION EXIT(S) WHERE VEHICLES OR EQUIPMENT MAY ACCESS THE

CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY

- BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING/BYPASSING PROVIDE SEDIMENT TRAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED. SEDIMENT TRAP SHALL BE LOCATED OUTSIDE OF THE
- RIGHT-OF-WAY AND AT A MINIMUM SETBACK DISTANCE AS REQUIRED PER LOCAL JURISDICTION. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT(S) IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC
- ROAD. ALL WASH WATER MUST BE ROUTED TO A SEDIMENT TRAP OR OTHER TREATMENT AREA AND SHALL NOT BE DIRECTLY DISCHARGED LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING BEYOND THE PERMITTED PROJECT AREA. ALL MATERIALS SPILLED, DROPPED, WASHED
- OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. ANY SEDIMENT DEPOSITED ON THE ROADWAY SHALL BE SWEPT AS NECESSARY (AND WITHIN THE SAME DAY AS DISCOVERY) AND DISPOSED OF IN AN APPROPRIATE MANNER. SEDIMENT SHALL NOT BE WASHED INTO
- STORM SEWER SYSTEMS. EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD BEYOND THE EXIT(S). THIS MAY REQUIRE
- PERIODIC TOP DRESSING OF THE CONSTRUCTION EXIT(S) AS CONDITIONS CONTRACTOR SHALL BE PERMITTED TO TURN THE STONE WHEN THE SURFACE BECOMES SMOOTH AND SURFACE VOIDS ARE FILLED TO MAINTAIN EFFECTIVENESS OF CONSTRUCTION EXIT UNTIL SUCH TIME THAT VOIDS
- LONGER EFFECTIVE. AT SUCH A TIME THE CONTRACTOR SHALL REMOVE THE INEFFECTIVE STONE AND REPLACE PER DETAIL. 9. IF EXIT BMP IS STILL INEFFECTIVE, GC MUST CONTACT THE ENGINEER AND SUBMIT AN RFI AS NECESSARY.

BELOW THE SURFACE BECOME FILLED AND THE CONSTRUCTION EXIT IS NO

06 CE - CONSTRUCTION EXIT

Galvanized Pipe 1 Ground Level Depth of Bury Pump Rod MANUFACTURER'S 1/8" NPT Tap for ~ SPECIFICATIONS Bleed Fitting Connection 24" Crushed Stone or Gravel **REGULARLY FURNISHED:** Non-Freeze Post Hydrant with Galvanized Casing and Adjustable Flow Wheel Lock Handle. Fulcrum Bolt and Lock Nut (Painted Green) ► Hose Adapter 3/4" Brass Extension Rod 7/16" Rod Coupling 7/16" Galvanized Pipe 1" 1/8" (3) NPT Drain Hole — N.T.S. NON-FREEZE POST HYDRANT DETAIL

MAINTENANCE NOTES AFTER RAINFALL EVENTS CHECK THE DAM AND CHANNEL FOR ROCK DISPLACEMENT AND EROSION AND MAKE REPAIRS AS NEEDED. 2. REMOVE SEDIMENT WHEN IT REACHES A DEPTH OF $\frac{1}{2}$ THE ORIGINAL DAM HEIGHT. REMOVE CHECK DAMS WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED. STABILIZE THE AREA WHERE CHECK DAMS ARE REMOVED WITH VEGETATION. CD - ROCK CHECK DAM N.T.S. Freezing is prevented by burying the valve housing below the frost line and draining water from the casing after shut-off.



Architecture, PC

445 Dexter Avenue

Montgomery, Al 36104

Phone: (334) 420-5672

Fax: (334) 420-5692

J.MICHAEL

RUTLAND

TIMOTHY R.

HOLMES

3188

FMTC

SOLDIER

FITNESS

TRAINING AND

TESTING

FACILITY

FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

Suite 5050

CONSTRUCITON DOCUMENTS

Project Number: 31 AUGUST 2022 Date: Revisions:

Sheet Description

BID ITEM B SECTIONS AND **DETAILS**

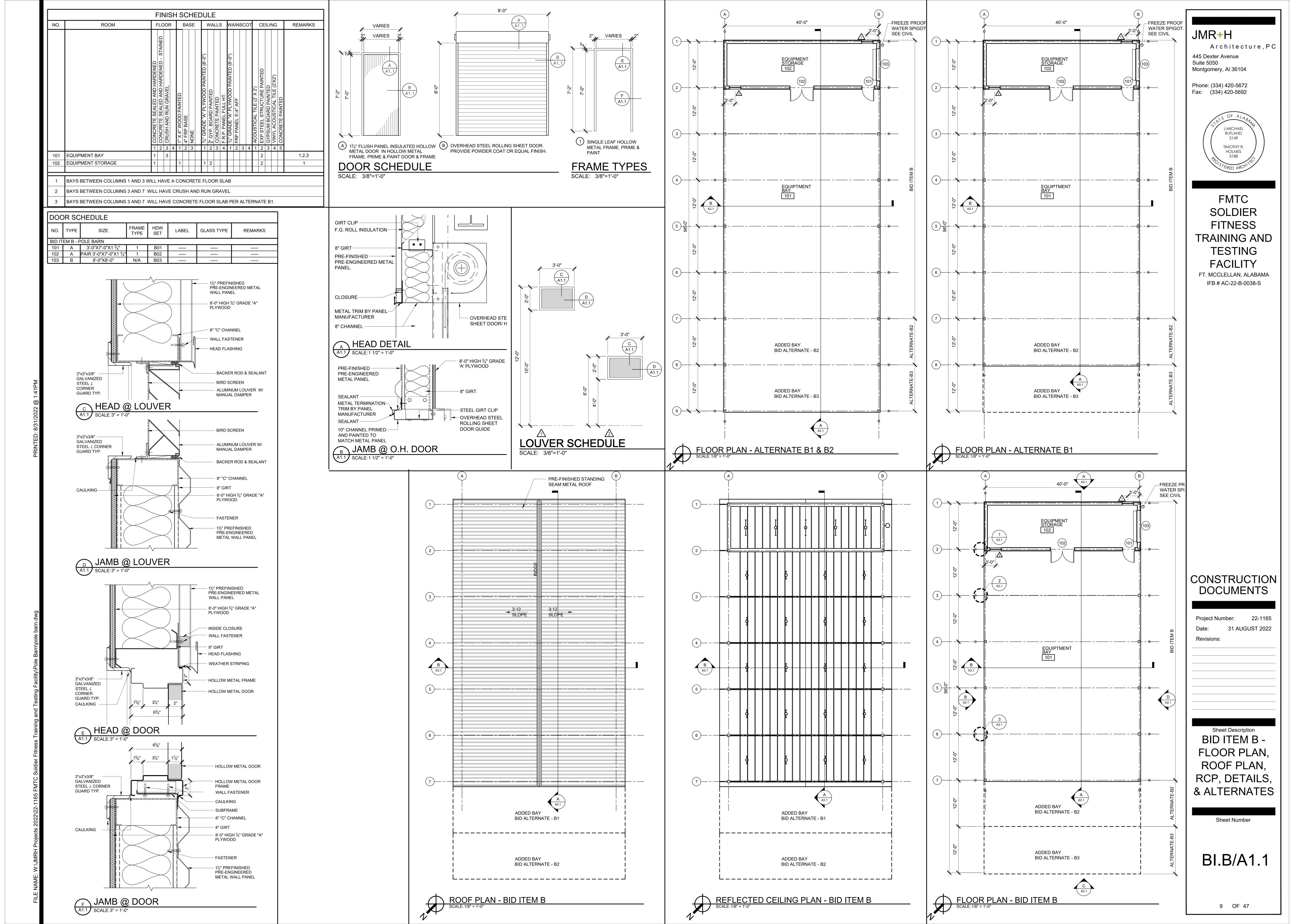
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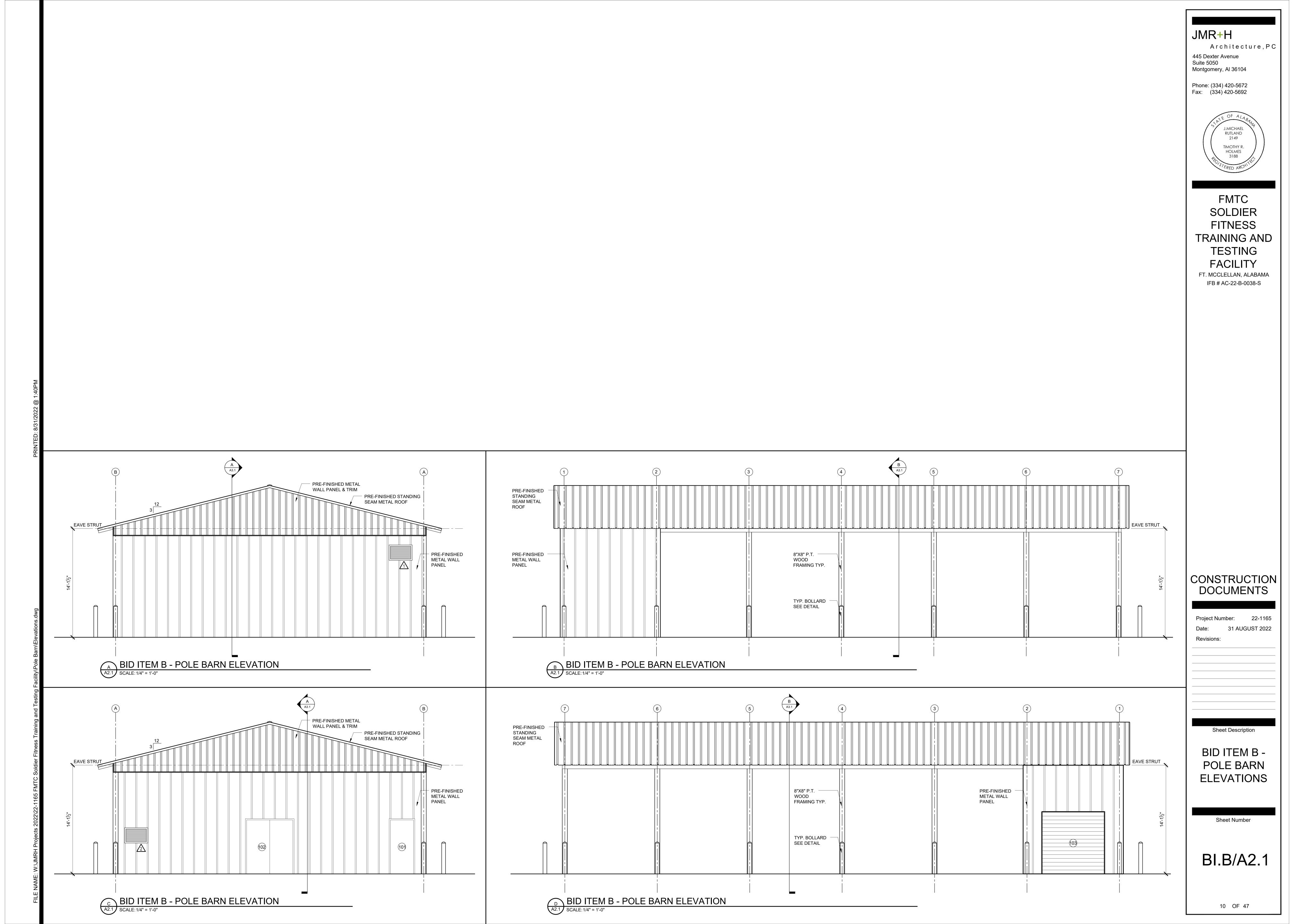
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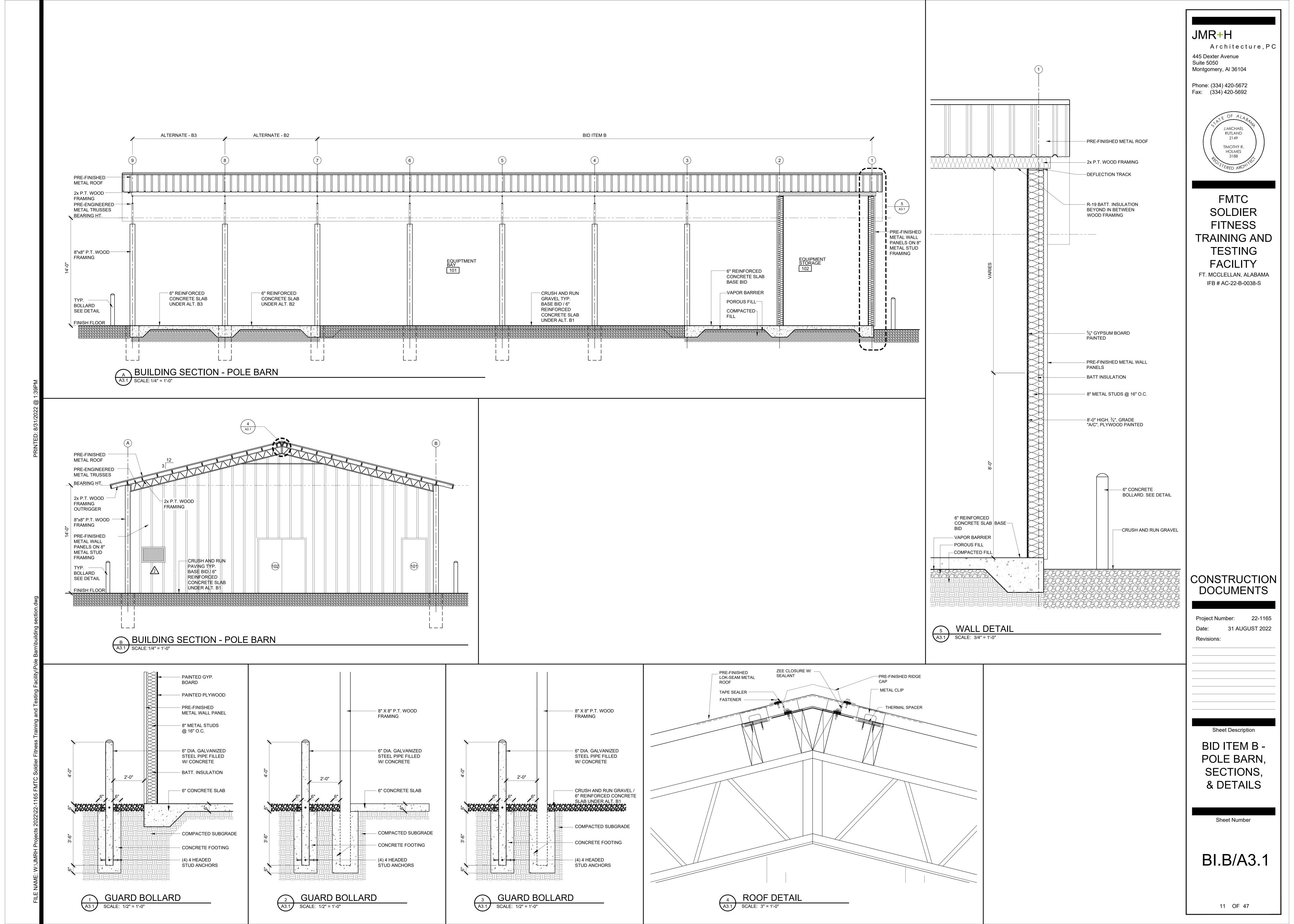
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ANGLES

HOLLOW STRUCTURAL SECTIONS

GN.2 DESIGN CRITERIA:

ENGINEER AND ARCHITECT.

GN. GENERAL

CODES AND SPECIFICATIONS:

GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2018 EDITION.

THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE

REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES' DRAWINGS.

CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL

ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE STRUCTURAL

- DESIGN LOAD CRITERIA: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7.
- CONCRETE: 3. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. AMERICAN CONCRETE INSTITUTE. ACI 318.
- STRUCTURAL STEEL: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360
- COLD-FORMED STEEL STRUCTURAL MEMBERS: NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE.
- TIMBER: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST & PAPER ASSOCIATION/AMERICAN WOOD COUNCIL.
- PREFABRICATED METAL BUILDING: METAL BUILDING MANUFACTURER ASSOCIATION'S DESIGN PRACTICES MANUAL.

DESIGN LOADS (PSF)

DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

LIVE LOADS: ROOF (REDUCIBLE)-----20 LIVE LOAD REDUCTIONS HAVE BEEN APPLIED IN ACCORDANCE

WITH THE BUILDING CODE, UNLESS NOTED.

(3 - SECOND GUST)

- SNOW LOAD: GROUND SNOW LOAD (Pg)-----5.0 WIND LOADS: ULTIMATE DESIGN WIND SPEED, Vult-----108 MPH (3 - SECOND GUST)
 - INTERNAL PRESSURE COEFFICIENT-----±0.18 WALL COMPONENT AND CLADDING WIND PRESSURE-SEE DRAWINGS

NOMINAL DESIGN WIND SPEED, Vasd------84 MPH

RISK CATEGORY-----II WIND EXPOSURE CATEGORY------C

SEISMIC LOADS: SEISMIC IMPORTANCE FACTOR (Ie)-----1.0

MADDED CDECTRAL DECRONCE ACCELEDATION	NC .
MAPPED SPECTRAL RESPONSE ACCELERATION	
Ss	0.200
S1	0.092
SITE CLASS	D (ASSUMED)
SITE COEFFICIENTS:	
Fa	1.6
Fv	2.4
DESIGN SPECTRAL RESPONSE ACCELERATION	N PARAMETERS:
Sds	0.255
Sd1	147

SEISMIC DESIGN CATEGORY-----C

- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION
- GN.4 SPECIAL INSPECTIONS/STRUCTURAL ENGINEER'S SITE VISITS:
 - SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE. REFER TO DRAWINGS.
 - SITE VISITS BY STRUCTURAL ENGINEER:

NOTIFY PRIOR TO THE

- STRUCTURAL ENGINEER'S SITE VISITS ARE FOR VISUAL OBSERVATION OF THE IN-PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION.
- CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT, PER THE SCHEDULE STATED BELOW. WHEN SUCH ITEMS HAVE PROGRESSED TO THE POINT WHERE THEY WILL BE IN PLACE AND READY FOR REVIEW. FAILURE TO NOTIFY MAY REQUIRE REMOVAL OF COMPLETED CONSTRUCTION.

FOLLOWING SCHEDULED TASKS NOTIFICATION

FIRST FOUNDATION POUR-----2 DAYS SHEATHING LOAD BEARING COLD-FORMED STEEL WALLS--2 DAYS

REQUIRED DAYS

SITE VISITS BY THE STRUCTURAL ENGINEER'S OFFICE DO NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

GN.5 SUBMITTALS:

REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES. DETAILS. AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL.

- ELECTRONIC SHOP DRAWING SUBMITTALS: SUBMIT ALL ELECTRONIC SHOP DRAWINGS IN .PDF FORMAT. REVIEWED SHOP DRAWINGS WILL BE RETURNED IN .PDF FORMAT. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED.
- RESUBMITTED SHOP DRAWINGS: RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL CHANGES SINCE THE PREVIOUS SUBMISSION IDENTIFIED BY CLOUDING OR OTHER CLEAR COMMUNICATION. RE-REVIEWED SHOP DRAWINGS WILL ONLY BE REVIEWED FOR IDENTIFIED CHANGES.
- SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED FOR STRUCTURAL ENGINEER'S RECORD
 - CONCRETE MIX DESIGNS
 - CONCRETE REINFORCING
 - STRUCTURAL STEEL (*) COLD-FORMED STEEL (*)
- DESIGN CALCULATIONS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER'S RECORD, DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR THE FOLLOWING ITEMS.
 - DELEGATED STRUCTURAL STEEL TRUSSES/FRAMES COLD-FORMED STEEL
- GN.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS. UNLESS NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT LOADS DO NOT EXCEED THE DESIGN LIVE LOAD.

FD. FOUNDATION

- A GEOTECHNICAL ENGINEER, EMPLOYED BY THE OWNER, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE BASIS OF DESIGN BEARING PRESSURE NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL
- FD.2 DESIGN BEARING PRESSURES (PSF):

COLUMN FOOTINGS-----1500

CONTINUOUS WALL FOOTINGS-----1500

- ALL FOUNDATION BEARING SURFACES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE COMPLIANCE WITH PRESSURES NOTED. THE FINAL BEARING ELEVATIONS MAY VARY AS REQUIRED TO PROVIDE PROPER BEARING CAPACITY IN AN APPROVED BEARING STRATUM AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
- FD.4 FOOTINGS SHALL BE PLACED THE SAME DAY AS INSPECTION BY THE GEOTECHNICAL ENGINEER UNLESS EXTENDED TIME IS APPROVED BY THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHALL BE NEATLY EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTING EXCAVATION SHALL BE FILLED WITH CONCRETE TO THE TOP OF FOOTING. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE. WHERE SOFT OR UNSUITABLE BEARING SURFACES ARE ENCOUNTERED, THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH LEAN CONCRETE OR COMPACTED DENSE GRADED CRUSHED STONE AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

PROVIDE 4" OF COMPACTED GRANULAR FILL BENEATH ALL SLABS ON GRADE.

- PROVIDE 10 MIL VAPOR RETARDER BETWEEN BOTTOM OF SLAB AND TOP OF GRANULAR FILL.
- FOUNDATIONS SHALL BE CENTERED ABOUT COLUMN LINES, UNLESS NOTED.

CN. CONCRETE

- CN.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM W/C (WATER/CEMENTITIOUS MATERIALS RATIO), TOTAL AIR CONTENT, SLUMP AND CONCRETE USE:

W/C AIR SLUMP NORMAL WT. 0.50 4-6% 3" TO 5" UNLESS NOTED

- ***DO NOT USE AIR ENTRAINING ADMIXTURES IN INTERIOR CONCRETE SLABS TO RECEIVE A HARD TROWEL FINISH.
- REINFORCING BARS: ASTM A615 GRADE 60.
- REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS IS A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- REINFORCING BAR PLACING ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS.
- DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI SP-066. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE STRUCTURAL ENGINEER.
- SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- CN.8 REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- CN.9 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS-----2" TOP & 3" BOTTOM & SIDES GRADE BEAMS-----2" TOP & 3" BOTTOM & SIDES DRILLED PIERS-----3" CLEAR OF TIES PEDESTALS-----1-1/2" CLEAR OF TIES SLABS ON WELL GRADED SUBGRADE OR VAPOR BARRIERS: 3/4" TOP & 1 1/2" BOTTOM

SLABS ON GRADE: 6" THICK, REINFORCE WITH ASTM C 1116, TYPE III SYNTHETIC MACRO-FIBERS AT A DOSAGE RATE OF 3.5 POUNDS PER CUBIC YARD.

SS. STRUCTURAL STEEL

SS.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

- SS.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL THE LATERAL FORCE RESISTING SYSTEM AND STABILITY OF THE COMPLETED STRUCTURE IS IN PLACE
- SS.3 STRUCTURAL STEEL AND STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO THE

FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE:

W AND WT SHAPES ASTM A992 ASTM A572, GRADE 50 [OR] ASTM A36 S, M, AND HP SHAPES AND CHANNELS

ASTM A36 STIFFENER PLATES, BASE PLATES, CAP PLATES, CONNECTION PLATES, AND

STEEL PIPE ASTM A53, TYPE E OR S, GRADE B

ASTM A500, GRADE C

WELDED CONNECTIONS E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16"

HEADED ANCHOR RODS ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT, UNLESS INDICATED.

SHEAR CONNECTORS ASTM A108, GRADE 1015 THROUGH 1020, HEADED-STUD TYPE, COLD FINISHED CARBON STEEL; AWS D1.1, TYPE B.

ASTM F3125, GRADE A325 OR A490 BOLTS

ASTM A563 ASTM F436 **WASHERS**

- SS.4 FABRICATE BRACING MEMBERS WITH SUFFICIENT DRAW TO PREVENT SAGGING.
- SS.5 WHERE NO CAMBER IS INDICATED, BEAMS SHOULD BE ERECTED WITH NATURAL CAMBER ORIENTED UPWARD.
- BEAMS SHALL BE EQUALLY SPACED IN BAYS, UNLESS NOTED.
- SS.7 HSS MEMBERS SHALL HAVE A 1/4" CLOSURE PLATE.C
- SS.8 FOUR ANCHOR RODS MINIMUM FOR BASE PLATES UNDER COLUMNS.
- SS.9 GROUT UNDER BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC TYPE. GROUT SHALL HAVE A SPECIFIED DESIGN COMPRESSIVE STRENGTH TWO TIMES THAT OF THE SUPPORTING CONCRETE.
- SS.10 STRUCTURAL STEEL MEMBERS SHALL NOT BE CUT. SPLICED. OR MODIFIED IN THE FIELD UNLESS NOTED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER
- SS.11 STRUCTURAL STEEL NOT EXPOSED TO VIEW SHALL BE PRIMED WITH MANUFACTURER'S STANDARD SHOP PRIMER. STRUCTURAL STEEL EXPOSED TO WEATHER IN ITS FINAL POSITION SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. FOR STRUCTURAL STEEL EXPOSED TO VIEW, REFER TO PROJECT SPECIFICATIONS FOR FINISHED COATING SYSTEM.
- SS.12 SHOP PRIMER OR OTHER COATINGS SHALL NOT BE APPLIED TO THE FACE OF STRUCTURAL STEEL FRAMING SUBJECT TO HEADED STUD WELDING.
- SS.13 DRAIN HOLES SHALL BE PROVIDED IN ALL STEEL AS REQUIRED TO PREVENT WATER ACCUMULATION. HOLES THROUGH STRUCTURAL STEEL MEMBERS SHALL BE GROUND SMOOTH AND NOT EXCEEDING 1/2" DIAMETER. DRAIN HOLES SHALL BE LEFT CLEAN AND UNOBSTRUCTED.

CF. COLD-FORMED STEEL STRUCTURAL MEMBERS

- DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(CFS) AND ACCESSORIES IS THE RESPONSIBILITY OF THE COLD-FORMED STEEL MANUFACTURER. THE CFS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE CONNECTIONS BETWEEN MEMBERS AND THEIR MB.3 CONNECTION TO THE BUILDINGS PRIMARY STRUCTURAL FRAME.
- CF.2 ANY COLD-FORMED STEEL SIZES NOTED ARE FOR PRELIMINARY PRICING INFORMATION ONLY. THE COMPLETE DESIGN OF COLD-FORMED STEEL FRAMING SYSTEM AND PREPARATION OF ERECTION DRAWINGS ARE BY THE ENGINEER RESPONSIBLE FOR THEIR DESIGN.
- CF.3 SUBMIT THE FOLLOWING:
 - PRODUCT DATA: FOR EACH TYPE OF COLD-FORMED STEEL PRODUCT AND ACCESSORY UTILIZED.
 - SHOP DRAWINGS: SHOW LAYOUT, SPACINGS, SIZES, THICKNESS, AND TYPES OF COLD-FORMED STEEL; FABRICATIONS; AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. SHOW REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.
 - CALCULATIONS: COLD-FORMED STEEL DESIGN CALCULATIONS FOR THE FILES OF THE STRUCTURAL ENGINEER AND ARCHITECT. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- CF.4 PROVIDE COLD-FORMED STEEL CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
- A. DESIGN LOADS AS INDICATED IN SECTION GN OF THESE GENERAL NOTES.
 - B. DEFLECTION LIMITS: DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING: EXTERIOR LOAD-BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF 1/360 OF THE WALL HEIGHT.
 - INTERIOR LOAD-BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT UNDER A HORIZONTAL LOAD OF 5 LB F/SQ. FT.
 - EXTERIOR NON-LOAD-BEARING FRAMING: HORIZONTAL DEFLECTION OF 1/360 OF THE WALL HEIGHT.
- CF.5 VERTICAL STUDS SHALL BE 100% END BEARING.
- CF.6 PROVIDE WALL BRACING, CONNECTION DETAILS, AND WINDOW HEADERS AS RECOMMENDED BY THE STUD MANUFACTURER FOR LOAD-BEARING STUDS.
- CF.7 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH FILLET WELDS AT 6".

WD. WOOD CONSTRUCTION

WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONAL #2 GRADE SOUTHERN PINE.

WD.2 SILL PLATES, SOLE PLATES AND TOP PLATES SHALL BE OF THE SAME SIZE AND SPECIES AS THE STUDS TO WHICH THEY ARE CONNECTED. GRADE AND SPECIES SHALL BE AS SPECIFIED ABOVE.

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- WD.3 ALL LUMBER TO HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF CONSTRUCTION.
- WD.4 ALL PRESSURE TREATED SOUTHERN PINE LUMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1, COMMODITY SPECIFICATION A.
 - A. USE CATEGORIES:

UC2/INTERIOR DRY — SILL PLATES

- UC3B/ABOVE GROUND EXPOSED EXPOSED LUMBER DECKING, RAILINGS, BEAMS, COLUMNS, JOISTS, SHEATHING, ETC.
- UC4A/GROUND CONTACT OR INCLUSION PER U1, SECTION 2, NOTE 1 WOOD FOUNDATIONS, DECKING, BALCONY FRAMING, ETC.
- ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH LUMBER PRESSURE TREATED WITH ACQ SHALL BE HOT-DIP GALVANIZED. STAINLESS STEEL OR AS RECOMMENDED BY THE ACQ MANUFACTURER. PRESSURE TREATED LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.
- DIMENSIONED LUMBER FLOOR JOISTS SHALL BE LATERALLY BRACED AT ENDS. POINTS OF BEARING AND MAXIMUM INTERVALS OF 8'-0" BY SOLID BLOCKING, BRIDGING OR TRANSVERSE BEAMS IN ORDER TO PREVENT ROTATION.
- WD.6 ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER. HARDWARE TO BE FASTENED FOR MAXIMUM CAPACITY WHERE MANUFACTURER PROVIDES OPTION.
- MULTI-PLY ENGINEERED LUMBER BEAMS, UNLESS NOTED OTHERWISE, ARE TO BE FASTENED TOGETHER WITH SIMPSON STRONG-TIE SDS SCREWS OR APPROVED EQUAL WITH A MINIMUM OF TWO ROWS OF FASTENERS AT 12 INCHES (STAGGERED) AND SPACED 3 INCHES FROM THE TOP AND BOTTOM OF BEAMS.
- WD.8 REFER TO IBC TABLE 2304.10.1 FOR FASTENING REQUIREMENTS NOT SPECIFICALLY STATED IN DRAWINGS.
- WD.9 NAILS, WIRE BRADS, STAPLES: SHALL CONFORM TO ASTM F1667. ALL NAILS SPECIFIED IN DOCUMENTS ARE COMMON NAILS, UNLESS NOTED.
- WD.10 POWER DRIVEN FASTENERS: SHALL CONFORM TO NER-272.
- WD.11 WOOD SCREWS: SHALL CONFORM TO ASME B18.6.1.
- WD.12 LAG BOLTS: SHALL CONFORM TO ASME B18.2.1.
- WD.13 THE NUMBER OF PLIES IN THE BUILT-UP COLUMN SHALL MATCH OR EXCEED THE NUMBER OF PLIES OF THE BEAM IT SUPPORTS IF SPECIFIC SIZE IS NOT GIVEN IN CONSTRUCTION DOCUMENTS.
- WD.14 FREE-STANDING COLUMNS/POSTS/STUDPACKS SHALL BE BRACED AT FOUNDATION WITH SIMPSON POST BASE CB, CBS, LCB, PB, OR PBS. THE GENERAL CONTRACTOR SHALL COORDINATE TYPE AND SIZE OF HARDWARE BASED ON SIZE OF WOOD POST/STUDPACK IN STRUCTURAL PLANS.

MB. MANUFACTURED METAL BUILDING SYSTEM

- METAL BUILDING MANUFACTURER SHALL BE ACCREDITED BY INTERNATIONAL ACCREDITATION SERVICES' IAS ACCREDITATION FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS (AC472). METAL BUILDING MANUFACTURER SHALL PROVIDE IAS ACCREDITATION DOCUMENTATION TO THE ARCHITECT.
- MB.2 METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH "THE METAL BUILDING MANUFACTURERS ASSOCIATION'S DESIGN PRACTICES MANUAL."

THE METAL BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR COMPLETE DESIGN OF

- FOUNDATION. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. METAL BUILDING DESIGN CALCULATIONS' COVER SHEET AND ALL METAL BUILDING SHOP DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY THE
- MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. MB.5 THE FOUNDATION DRAWINGS HAVE BEEN PREPARED BASED ON ASSUMED LOADS. THE

CONTRACTOR SHALL SUBMIT FINAL SIGNED AND SEALED DRAWINGS AND DESIGN

REACTIONS FOR THE BUILDING FRAME FOR THE PURPOSE OF CONFIRMING THE DESIGN.

THE BUILDING STRUCTURAL FRAME (INCLUDING LATERAL LOADS) DOWN TO THE

- HEADED ANCHOR ROD SIZE, LOCATION, AND PROJECTION ABOVE TOP OF SLAB ARE TO BE PROVIDED BY METAL BUILDING MANUFACTURER. FOR MINIMUM ANCHOR ROD EMBEDMENT LENGTH, SEE TYPICAL DETAILS. HEADED ANCHOR RODS, INCLUDING INSTALLATION TOLERANCES, HOLE SIZES IN BASE PLATES, AND PLATE WASHERS, ARE TO BE COORDINATED BETWEEN METAL BUILDING SUPPLIER AND GENERAL CONTRACTOR INSTALLING ANCHOR RODS.
- BEFORE FOOTING INSTALLATION, GENERAL CONTRACTOR SHALL COORDINATE THE HEADED ANCHOR ROD EMBEDMENT LENGTHS. THE FOOTING DEPTH SHALL BE THE SCHEDULED DEPTH OR THE HEADED ANCHOR ROD EMBEDMENT LENGTH PLUS 3 INCHES. WHICHEVER IS GREATER.
- METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE ANCHOR ROD DESIGN. FOUNDATION DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE FOUNDATION CONCRETE AND SHALL SPECIFY MINIMUM ANCHOR ROD EMBEDMENT LENGTHS REQUIRED TO SATISFY THE FOUNDATION DESIGN.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING, SHORING, GUYING, ETC. AND OTHER METHODS TO PREVENT EXCESSIVE STRESSES DURING CONSTRUCTION. THESE PROVISIONS ARE TO REMAIN IN PLACE UNTIL SUFFICIENT PERMANENT MEMBERS ARE CONSTRUCTED TO ENSURE THE SAFETY OF THE STRUCTURE.
- MB.10 ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.
- MB.11 METAL BUILDING MANUFACTURER SHALL COORDINATE COLUMN LAYOUT WITH THE CONTRACT DRAWINGS. ANY COLUMN LAYOUT CHANGES MUST BE SUBMITTED FOR REVIEW OF FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS.
- MB.12 GRAVITY DESIGN LOADS:
 - A. LIVE LOAD: 20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY)
 - DEAD LOAD: WEIGHT OF STRUCTURE
 - THE WEIGHT OF THE STRUCTURE FOR PERMANENT ITEMS SUCH AS SPRINKLERS, MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, CEILING, LIGHTS, DUCTS, KITCHEN HOODS, OPERABLE WALLS, BASKETBALL GOALS, ETC. PROVIDE MINIMUM COLLATERAL LOADING OF 5 PSF.

COLLATERAL LOAD: INCLUDE ADDITIONAL DEAD LOADS OTHER THAN

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> 445 Dexter Avenue Suite 5050 P.O. Box 1706 Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692

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IFB # AC-22-B-0038-S

CONSTRUCTION **DOCUMENTS**

Project Number: 22-1165 31 AUGUST 2022 Revisions:

Sheet Description

GENERAL NOTES

Sheet Number

BI.B-S1.1

GENERAL NOTES

- GIRTS:
 - SUPPORTING METAL PANELS
 - A. HORIZONTAL DEFLECTION: SPAN/90
 - SUPPORTING MASONRY
 - A. HORIZONTAL DEFLECTION: SPAN/240 BUT NOT GREATER THAN 1½".
- OVERALL BUILDING DRIFT:
 - FOR BUILDINGS WITH SENSITIVE INTERIOR FINISHES (INCLUDING SHEETROCK AND MASONRY WALLS) OR RIGIDLY ATTACHED MECHANICAL SYSTEMS: H/500 (3/8" MAX)
 - FOR BUILDINGS WITH MASONRY INTERIOR OR EXTERIOR WALLS: H/200
 - H IS THE BUILDING EAVE HEIGHT.
- DEFLECTION AND DRIFT LIMITS ARE TO BE CONSIDERED WITH A 10 YEAR WIND OCCURRENCE.
- DEFLECTION AND DRIFT DUE TO SEISMIC LOADS SHOULD BE LIMITED IN ACCORDANCE WITH THE BUILDING CODE.
- MB.14 EXCEPT AS APPROVED, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.
- MB.15 STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM RESISTANCE FOR LATERAL WIND LOADS.
- MB.16 METAL BUILDING INSPECTOR OR ENGINEER SHALL VISIT THE PROJECT SITE AFTER THE COMPLETION OF THE BUILDING.
- MB.17 ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE SUBJECT TO APPROVAL BY THE REGISTERED DESIGN PROFESSIONAL. ALL DEVIATIONS SHALL BE EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. REGISTERED DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.

PA. POST INSTALLED ANCHORS

- PA.1 POST INSTALLED ANCHORS SHALL COMPLY WITH ACI-318 CHAPTER 17.
- PA.2 ACCEPTABLE MANUFACTURERS SHALL INCLUDE BUT ARE NOT LIMITED TO HILTI, INC. AND SIMPSON STRONG-TIE COMPANY, INC. AND DEWALT ANCHORS.
- PA.3 CARE SHALL BE TAKEN IN PLACING POST INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.
- PA.4 HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR ALONG WITH PREPARED DOCUMENTATION DEMONSTRATING THAT THE PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
- PA.5 THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND RECOMMENDATIONS.
- PA.6 ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS.
- PA.7 CONCRETE ANCHORS:
 - 1. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI-355.2 AND ICC-ES AC193.
 - 2. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI355.4 AND ICC-ES AC308.

Special Inspection General Notes

SPECIAL INSPECTIONS

- SI.1 ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE INTERNATIONAL BUILDING CODE AND ITS REFERENCED SPECIFICATIONS.
- SI.2 THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER OR THE OWNER'S AGENT AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK.
- SI.3 THE SPECIAL INSPECTOR SHALL BE QUALIFIED PER THE INTERNATIONAL BUILDING CODE AND SHALL BE EDUCATED IN THE TASKS REQUIRED TO CONDUCT, SUPERVISE, AND EVALUATE THE INSPECTIONS. THE SPECIAL INSPECTOR MUST ALSO BE OBJECTIVE, COMPETENT, AND HAVE ACCESS TO THE APPROPRIATE TESTING EQUIPMENT WHICH SHALL BE MAINTAINED AND PERIODICALLY CALIBRATED. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
- SI.4 SPECIAL INSPECTION AGENTS:
 - APPROVED TESTING AGENCY
 - 2. GEOTECHNICAL ENGINEER OF RECORD:
 - EOR: ENGINEER OF RECORD:
 - LBYD INC. 1100 SOUTH COLLEGE STREET, SUITE 201 AUBURN, AL 36832
- SI.5 THE SPECIAL INSPECTIONS SHALL BE PERFORMED IN ADDITION TO ANY OBSERVATIONS PERFORMED BY THE ENGINEER OF RECORD AND ANY INSPECTIONS PERFORMED BY THE BUILDING OFFICIAL.
- SI.6 THE SPECIAL INSPECTOR SHALL MAINTAIN RECORDS AND PROVIDE THE REQUIRED DOCUMENTATION AS PRESCRIBED IN THE INTERNATIONAL BUILDING CODE, INCLUDING THE SUBMITTAL OF REPORTS TO THE BUILDING OFFICIAL AND THE DESIGNER OF RECORD.
- SI.7 THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE SPECIAL INSPECTOR TO ALLOW FOR SPECIAL INSPECTIONS.
- CONSTRUCTION WHICH REQUIRES SPECIAL INSPECTIONS SHALL BE MAINTAINED IN SUCH A STATE AS TO ALLOW ACCESS FOR THE SPECIAL INSPECTOR UNTIL THE REQUIRED INSPECTIONS OR TESTS HAVE BEEN COMPLETED.
- ANY DEVIATIONS FOUND DURING THE SPECIAL INSPECTION PROCESS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE DESIGNER OF RECORD. ALL DEVIATIONS MUST BE ADDRESSED PRIOR TO COMPLETION OF THE WORK.
- SI.10 INSPECTION FREQUENCY:
 - A. CONTINUOUS SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
 - B. PERIODIC SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
 - C. OBSERVE OBSERVE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
 - D. PERFORM PERFORM TASKS FOR EACH JOINT, MEMBER, AND CONNECTION.

	Concret	e		
NO.	INSPECTION TASK	FREQUENCY	REFERENCE STANDARD	AGENT
1.00	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH 20, 25.2, 25.3, 26.5.1-26.5.3; IBC 1908.4	ATA
2.00	REINFORCING BAR WELDING:			ATA
2.01	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706.	PERIODIC	AWS D1.4	ATA
2.02	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	PERIODIC	ACI 318: 26.5.4	ATA
2.03	INSPECT ALL OTHER WELDS.	CONTINUOUS		ATA
3.00	INSPECT ANCHORS CAST IN CONCRETE.	PERIODIC	ACI 318: 17.8.2	ATA
4.00	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			ATA
4.01	INSPECT ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS	ACI 318: 17.8.2.4	ATA
4.02	INSPECT MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.01.	PERIODIC	ACI 318: 17.8.2	ATA
5.00	VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH 19, 26.4.3, 26.4.4; IBC 1904.1, 1904.2, 1908.2, 1908.3	ATA
6.00	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. DETERMINE UNIT WEIGHT OF LIGHTWEIGHT CONCRETE.	CONTINUOUS	ASTM C 172; ASTM C 31; ACI 318:26.4.5, 26.12; IBC 1908.10	ATA
7.00	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.4.5; IBC 1908.6, 1908.7, 1908.8	ATA
8.00	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.4.7-26.4.9; IBC 1908.9	ATA
9.00	INSPECT PRESTRESSED CONCRETE FOR:			ATA
9.01	APPLICATION OF PRESTRESSING FORCES.	CONTINUOUS	ACI 318: 26.9.2.1	ATA
9.02	GROUTING OF BONDED PRESTRESSING TENDONS.	CONTINUOUS	ACI 318: 26.9.2.3	ATA
10.00	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH 26.8	ATA
11.00	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.10.2	ATA
12.00	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.10.1(B)	ATA
13.00	ISOLATED CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (1)	ATA
14.00	CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF LIGHT-FRAME CONSTRUCTION OR THOSE THAT ARE DESIGNED IN ACCORDANCE WITH IBC 2015 TABLE 1809.7 ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (2)	ATA
15.00	SLABS ON GRADE ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (3)	ATA
16.00	CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH IBC 2015 TABLE 1807.1.6.2 ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (4)	ATA



	Cold-Formed	Framing		
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	AGENT
1.00	PRIOR TO ASSEMBLY OR INSTALLATION: VERIFY COMPLIANCE OF STRUCTURAL MEMBERS FOR PRODUCT IDENTIFICATION	PERFORM	AISI S240 TABLE D6.5-1 AISI S240 SECTION A5.5	ATA
1.02 1.03	VERIFY COMPLIANCE OF CONNECTORS DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND CONNECTORS	PERFORM PERFORM		ATA ATA
2.00	AFTER ASSEMBLY OR INSTALLATION: VERIFY COMPLIANCE OF COLD-FORMED STEEL STRUCTURAL MEMBERS FOR PRODUCT IDENTIFICATION	PERFORM	AISI S240 TABLE D6.5-2 AISI S240 SECTION A5.5	ATA
2.02	VERIFY COMPLIANCE OF CONNECTORS DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL	PERFORM PERFORM		ATA ATA
3.00	STRUCTURAL MEMBERS AND CONNECTORS PRIOR TO WELDING:		AISI S240 TABLE D6.6-1	
3.01 3.02	WELDING PROCEDURE SPECIFICATIONS AVAILABLE MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	OBSERVE OBSERVE		ATA ATA
3.03 3.04	MATERIAL IDENTIFICATION (TYPE/GRADE) CHECK WELDING EQUIPMENT	OBSERVE OBSERVE		ATA ATA
4.00	DURING WELDING:	00050\/5	AISI S240 TABLE D6.6-2	A.T.A
4.01 4.02	USE OF QUALIFIED WELDERS CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE OBSERVE		ATA ATA
4.03	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	OBSERVE		ATA
4.04 5.00	WELDING PROCEDURE SPECIFICATIONS FOLLOWED AFTER WELDING:	OBSERVE	AISI S240 TABLE D6.6-3	ATA
5.01	VERIFY COMPLIANCE OF WELDS	PERFORM		ATA
5.02	WELDS MEET VISUAL ACCEPTANCE CRITERIA VERIFY REPAIR ACTIVITIES	PERFORM PERFORM		ATA ATA
5.04	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED CONNECTIONS	PERFORM		ATA
6.00 6.01	PRIOR TO MECHANICAL FASTENING: MECHANICAL FASTENER MANUFACTURER INSTALLATION	OBSERVE	AISI S240 TABLE D6.7-1	ATA
6.02	INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS PROPER TOOLS AVAILABLE FOR MECHANICAL FASTENER INSTALLATION	OBSERVE		ATA
6.03	PROPER STORAGE FOR MECHANICAL FASTENERS	OBSERVE		ATA
7.00	DURING MECHANICAL FASTENING:		AISI S240 TABLE D6.7-2	
7.01	MECHANICAL FASTENERS ARE POSITIONED AS REQUIRED MECHANICAL FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	OBSERVE OBSERVE		ATA ATA
8.00	AFTER MECHANICAL FASTENING:		AISI S240 TABLE D6.7-3	
8.01	VERIFY COMPLIANCE OF MECHANICAL FASTENERS	PERFORM		ATA
8.02 8.03	REPAIR ACTIVITIES DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICALLY	PERFORM PERFORM		ATA ATA
9.00	FASTENED CONNECTIONS AFTER INSTALLATION OF COLD-FORMED STEEL LIGHT-FRAME	-	AISI S240 TABLE D6.8-1	
9.01	CONSTRUCTION: VERIFY COMPLIANCE OF COLD-FORMED STEEL LIGHT-FRAME	PERFORM		ATA
9.02	CONSTRUCTION DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	PERFORM		ATA
10.00	PRIOR TO INSTALLATION OF COLD-FORMED STEEL LATERAL FORCE RESISTING SYSTEMS:		AISI S240 TABLE D6.9-1	
10.01	VERIFY COMPLIANCE OF SHEAR WALL AND DIAPHRAGM SHEATHING, DIAGONAL STRAP BRACING, AND HOLD-DOWNS	PERFORM		ATA
10.02	DOCUMENT ACCEPTANCE OR REJECTION OF SHEAR WALL AND DIAPHRAGM SHEATHING, DIAGONAL STRAP BRACING, AND HOLD-DOWNS	PERFORM		ATA
11.00	PRIOR TO WELDING OF COLD-FORMED STEEL LATERAL FORCE RESISTING SYSTEMS:		AISI S240 TABLE D6.9-2	
11.01	WELDER IDENTIFICATION SYSTEM	OBSERVE		ATA
11.02	FIT-UP OF WELDS (ALIGNMENT, GAPS, CONDITION OF STEEL SURFACES)	OBSERVE		ATA
12.00	PRIOR TO MECHANICAL FASTENING OF COLD-FORMED STEEL LATERAL FORCE RESISTING SYSTEMS:		AISI S240 TABLE D6.9-3	
12.01	PROPER FASTENERS SELECTED	OBSERVE		ATA
12.02 12.03	PROPER INSTALLATION PROCEDURE SELECTED CONNECTING ELEMENTS MEET APPLICABLE REQUIREMENTS	OBSERVE OBSERVE		ATA ATA
13.00	DURING MECHANICAL FASTENING OF COLD-FORMED STEEL LATERAL FORCE RESISTING SYSTEMS:	-	AISI S240 TABLE D6.9-4	73173
13.01	FOR SCREW CONNECTIONS, JOINT BROUGHT TIGHT TO AVOID GAPS BETWEEN PLIES	OBSERVE		ATA
13.02	FOR SCREW CONNECTIONS, TOOL ADJUSTED TO AVOID STRIPPED AND OVERDRIVEN FASTENERS	OBSERVE		ATA
13.03	FOR POST-INSTALLED CONNECTIONS TO CONCRETE, INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AFTER INSTALLATION OF COLD-FORMED STEEL LATERAL FORCE	PERFORM	AISI S240 TABLE D6.9-5	ATA
14.01	RESISTING SYSTEMS: VERIFY COMPLIANCE OF COLD-FORMED STEEL LATERAL FORCE	PERFORM		ATA
14.02	RESISTING SYSTEM INSTALLATION DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF	PERFORM		ATA
15.00	COLD-FORMED STEEL LATERAL FORCE RESISTING SYSTEM COLD-FORMED STEEL TRUSSES WITH A CLEAR SPAN OF 60 FEET OR		AISI S240 IBC 1705.2.4	
15.01	GREATER: TEMPORARY RESTRAINTS/BRACING INSTALLED IN ACCORDANCE	PERIODIC		ATA
15.02	WITH APPROVED TRUSS SUBMITTAL PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINTS/BRACING INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL	PERIODIC		ATA
	INSTALLED IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL			

	Metal Building Systems							
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	AGENT				
1.00	VERIFY TEMPORARY BRACING OF BUILDING IS IN PLACE DURING ERECTION.	PERIODIC		ATA				
2.00	VERIFY PLACEMENT OF ALL GIRTS AND PURLINS ACCORDING TO THE ERECTION DRAWINGS.	PERIODIC		ATA				
3.00	VERIFY THAT SECONDARY FLANGE BRACING HAS BEEN INSTALLED ACCORDING TO THE ERECTION DRAWINGS.	PERIODIC		ATA				
4.00	VERIFY THAT ALL X-BRACING AND PORTAL FRAMES HAVE BEEN INSTALLED PER THE ERECTION DRAWINGS.	PERIODIC		ATA				
5.00	VERIFY THAT NO MEMBERS HAVE BEEN ALTERED OR CUT WITHOUT THE APPROVAL OF THE BUILDING MANUFACTURER.	PERIODIC		ATA				
6.00	VERIFY THAT ALL GIRT AND PURLIN BRIDGING IS IN PLACE PER THE ERECTION DRAWINGS.	PERIODIC		ATA				
7.00	VERIFY THAT ALL WALL AND ROOF OPENINGS ARE PER THE BUILDING ERECTION DRAWINGS.	PERIODIC		ATA				

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JMR+H Architecture, PC

> 445 Dexter Avenue Suite 5050 P.O. Box 1706 Montgomery, Al 36104 Phone: (334) 420-5672

Fax: (334) 420-5692



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CONSTRUCTION **DOCUMENTS**

Project Number: 22-1165 Date: 31 AUGUST 2022 Revisions:

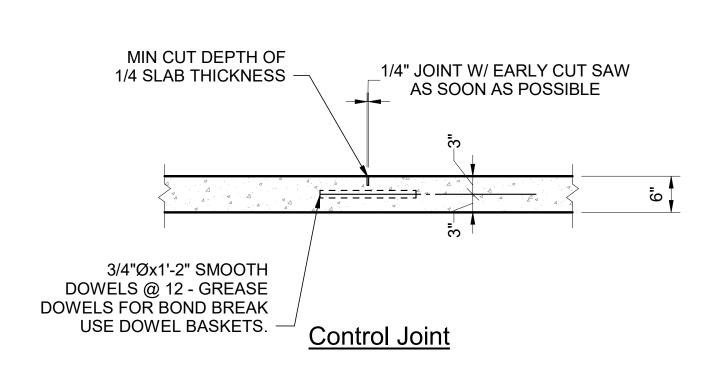
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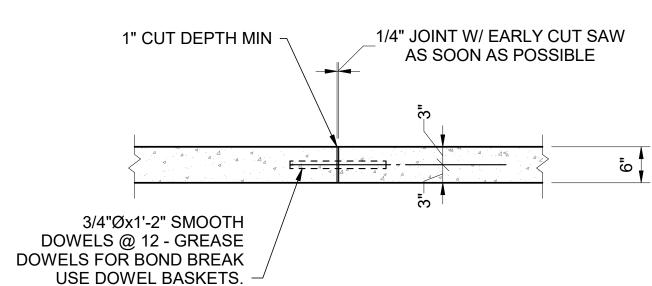
GENERAL | NOTES - CONTD

BI.B-S1.2

Components and Cladding Wind Pressures (Vult per ASCE 7-16) MAX POSITIVE MAX NEGATIVE EFFECTIVE WIND AREA PRESSURE PRESSURE ZONE (PSF) (PSF) (SQ FT) -17.7 7.9 10 ZONE 1' -17.7 ROOF 20 7.4 **INTERIOR** 6.7 -17.7 50 ZONE 6.2 -17.7 >100 -30.8 10 7.9 ZONE 1 -28.8 20 7.4 ROOF INTERMEDIATE 6.7 -26.1 50 ZONE -24.1 >100 6.2 7.9 -40.7 ZONE 2 -38.1 20 7.4 **ROOF EDGE** 6.7 50 -34.6 ZONE 6.2 >100 -34.6 -55.4 7.9 10 ZONE 3 -50.2 ROOF 7.4 20 CORNER 50 6.7 -43.3 ZONE -38.1 >100 6.2 -19.2 17.7 10 ZONE 4 -18.4 16.9 20 -17.4 15.9 **INTERIOR** -16.6 100 15.1 ZONE >500 13.3 -14.8 -23.6 17.7 10 16.9 -22.1 20 ZONE 5 WALL EDGE -20.0 50 15.9 ZONE 100 15.1 -18.4 13.3 >500 -14.8

WIDTH OF EDGE STRIP, a = 6' EAVE HEIGHT, h: SEE ROOF FRAMING PLAN INTERNAL PRESSURE COEFFICIENT = ±0.18 RELIABLE DEAD LOAD FOR UPLIFT = 5 PSF



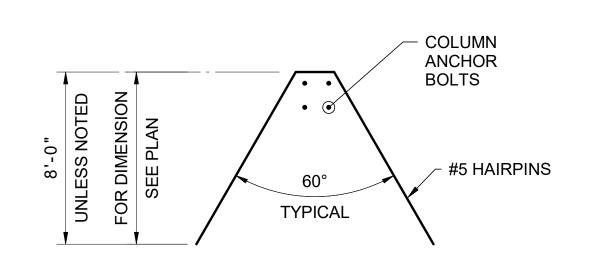


Construction Joint

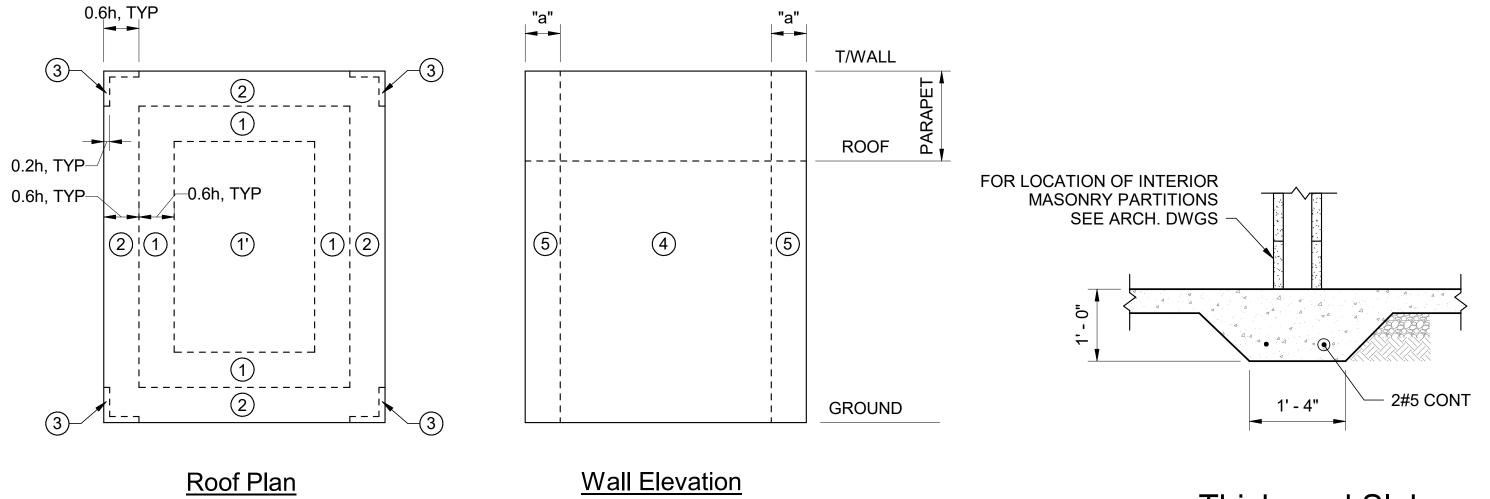
1. CONTROL JOINT FILLER SEMI-RIGID EPOXY. 2. SAWCUT TO TAKE PLACE WITHIN 4-12 HOURS OF FINISHING CONCRETE: 4 HOURS IN HOT WEATHER, 12 HOURS IN COLD WEATHER.

6" Slab Control Joint Detail

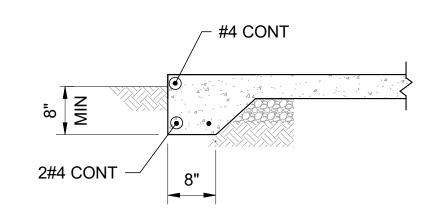
JOINT TYPE IS OPTIONAL



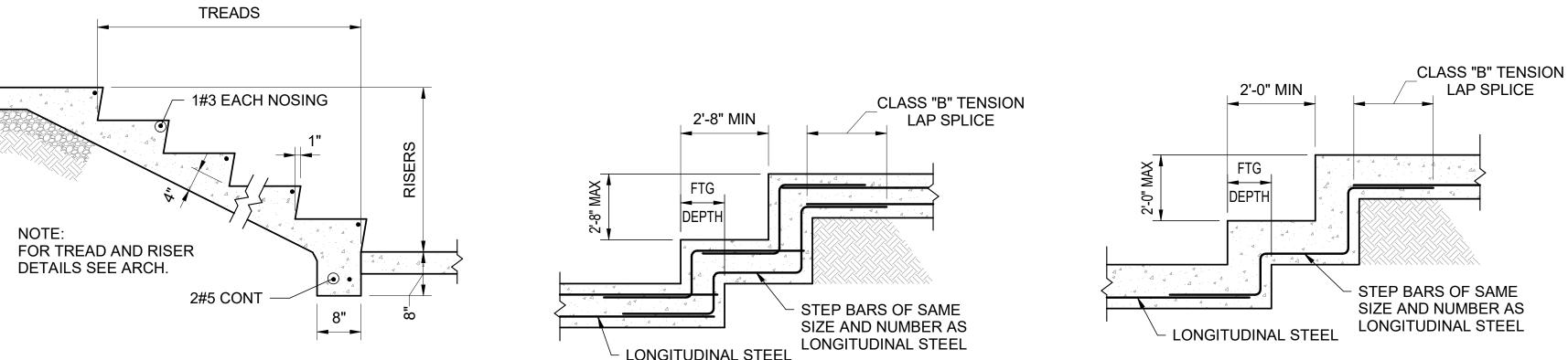
Column Hairpin Detail



Thickened Slab Components and Cladding Wind Pressures on Grade Detail



Slab Edge Detail



Footing Step Detail

Footing Step Detail

LAP SPLICE	_		
			Anchor Rod edment Lengths
		BOLT DIA	MIN EMBEDMENT
		5/8 & 3/4"	9"
		1"	12"
STEP BARS OF SAME		1 1/4"	15"
SIZE AND NUMBER AS LONGITUDINAL STEEL		1 1/2"	18"
	·	NOTE:	

ANCHOR RODS TO BE F1554 HEADED.

TYPICAL FOOTING REINF - SEE SECTIONS ——	2'-0" MIN ADDITIONAL 2'-0" MIN SEE SECTIONS	
SEE SECTIONS —		
	TOF SEE PLAN	
	SELI LAIV	
	Z O Z	
COMPACTED FILL OR	MAN TO SERVICE	
UNDISTURBED EARTH AS REQD		
CAST IRON SLEEVE AT EA UTILITY LINE	LEAN CONCRETE FILL AS SHOWN AND	
LOCATION CAST INTO LEAN CONCRETE,	1'-0" MIN BEYOND BOTH SIDES OF	
2" LARGER IN DIAMETER THAN LINE PASSING THROUGH. SLEEVES MUST BE ORIENTED	4" MIN - 4" MIN FOOTING BEARING LOCATION (INSTALL 6" MIN WHERE MULTIPLE AND CURE PRIOR TO FOOTING PLACEMENT)	
PERPENDICULAR TO FOOTING LENGTH	SLEEVES OCCUR	1

Typical Detail for Utilities Passing Below Wall Footings

- 1. CONTRACTOR'S OPTION TO STEP FOOTINGS BELOW UTILITIES IN LIEU OF THIS DETAIL.
- 2. COORDINATE UTILITY LOCATIONS W/ CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL
- 3. UTILITIES SHALL NOT PASS BELOW COLUMN FOOTINGS.

Stair on Grade Detail

Tension Lap Splice Lengths						
		f _C = 40	000			
BAR SIZE	TOP E	BARS	OTHER	BARS		
	Α	В	Α	В		
#3	19"	24"	15"	19"		
#4	25"	32"	19"	25"		
#5	31"	40"	24"	31"		
#6	37"	48"	29"	37"		
#7	54"	70"	42"	54"		
#8	62"	80"	48"	62"		
#9	70"	91"	54"	70"		
#10	79"	102"	61"	79"		
#11	87"	113"	67"	87"		

- 1. THIS TABLE CONTAINS DEVELOPMENT AND SPLICE LENGTHS FOR NORMAL-WEIGHT CONCRETE SLABS ONLY.
- 2. ALL DEVELOPMENT/SPLICE LENGTHS ARE IN INCHES (IN.).
- 3. Ld = TENSION DEVELOPMENT LENGTH, PER CHAPTER 12 OF ACI 318.
 4. TABLE SHALL APPLY WHEN ACI 318 MINIMUM COVER IS PROVIDED (THE GREATER OF 0.75" AND db) AND THE
- CENTER-TO-CENTER BAR SPACING IS >3*db. 5. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

CONSTRUCTION DOCUMENTS

Project Number: 22-1165 31 AUGUST 2022 Revisions:

LBYD, Inc.
Civil and Structural Engineers
1100 South College Street

JMR+H

445 Dexter Avenue

Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692

FMTC

SOLDIER

TRAINING AND

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FACILITY

FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

Suite 5050 P.O. Box 1706

Architecture, PC

Suite 201
Auburn, AL 36832
Phone (334) 734-0403
Project No. 132270.001

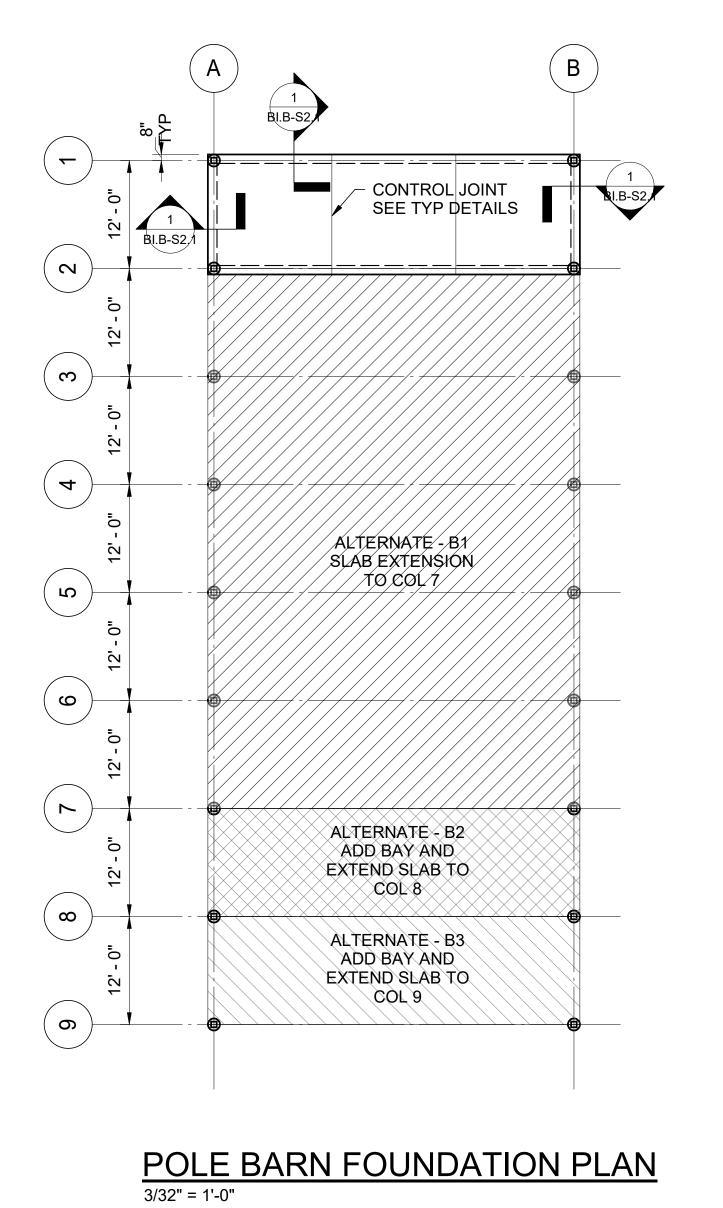
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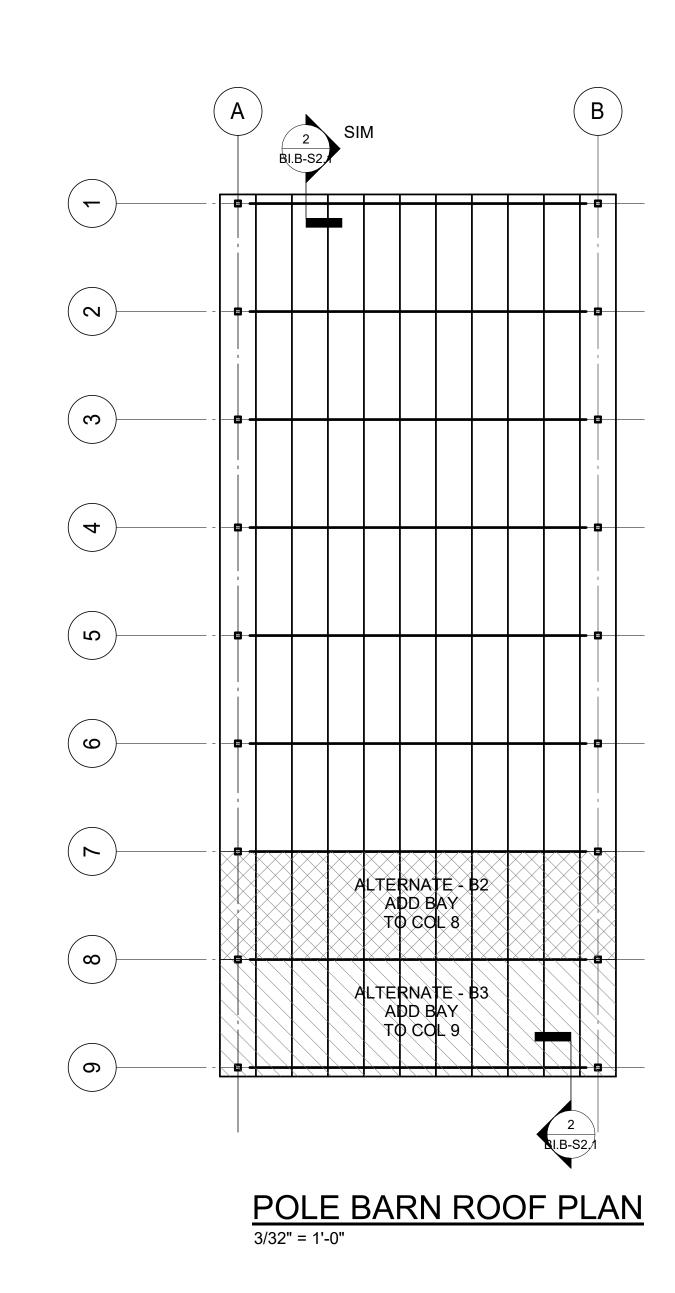
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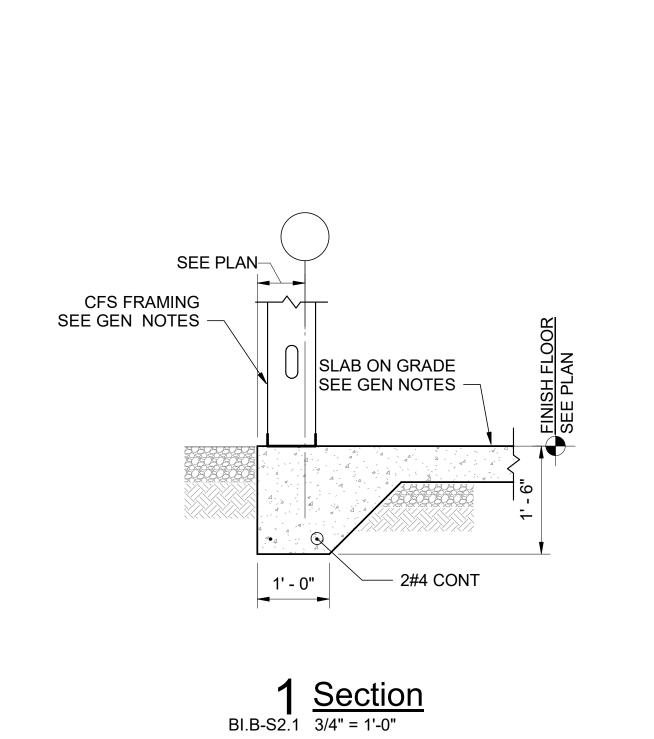
TYPICAL DETAILS

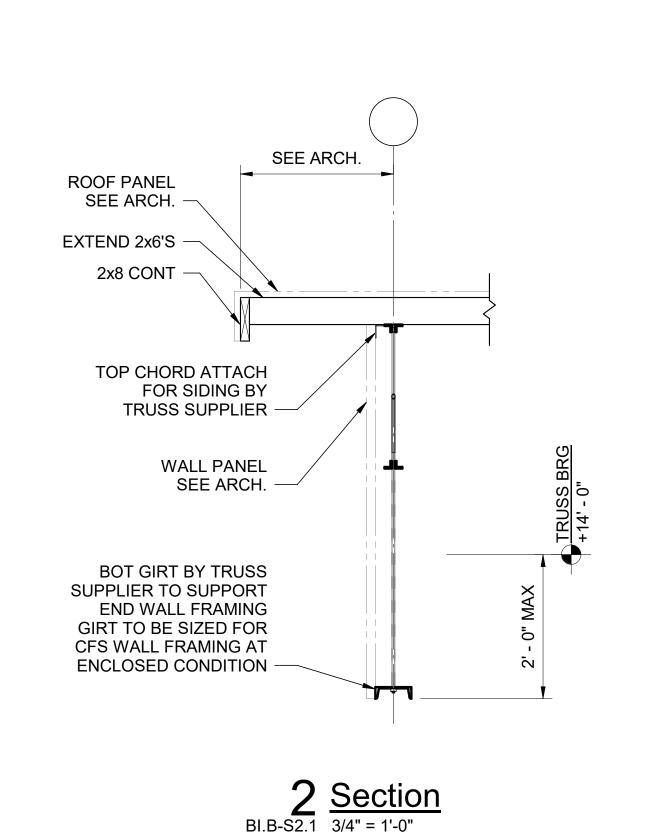
BI.B-S1.3

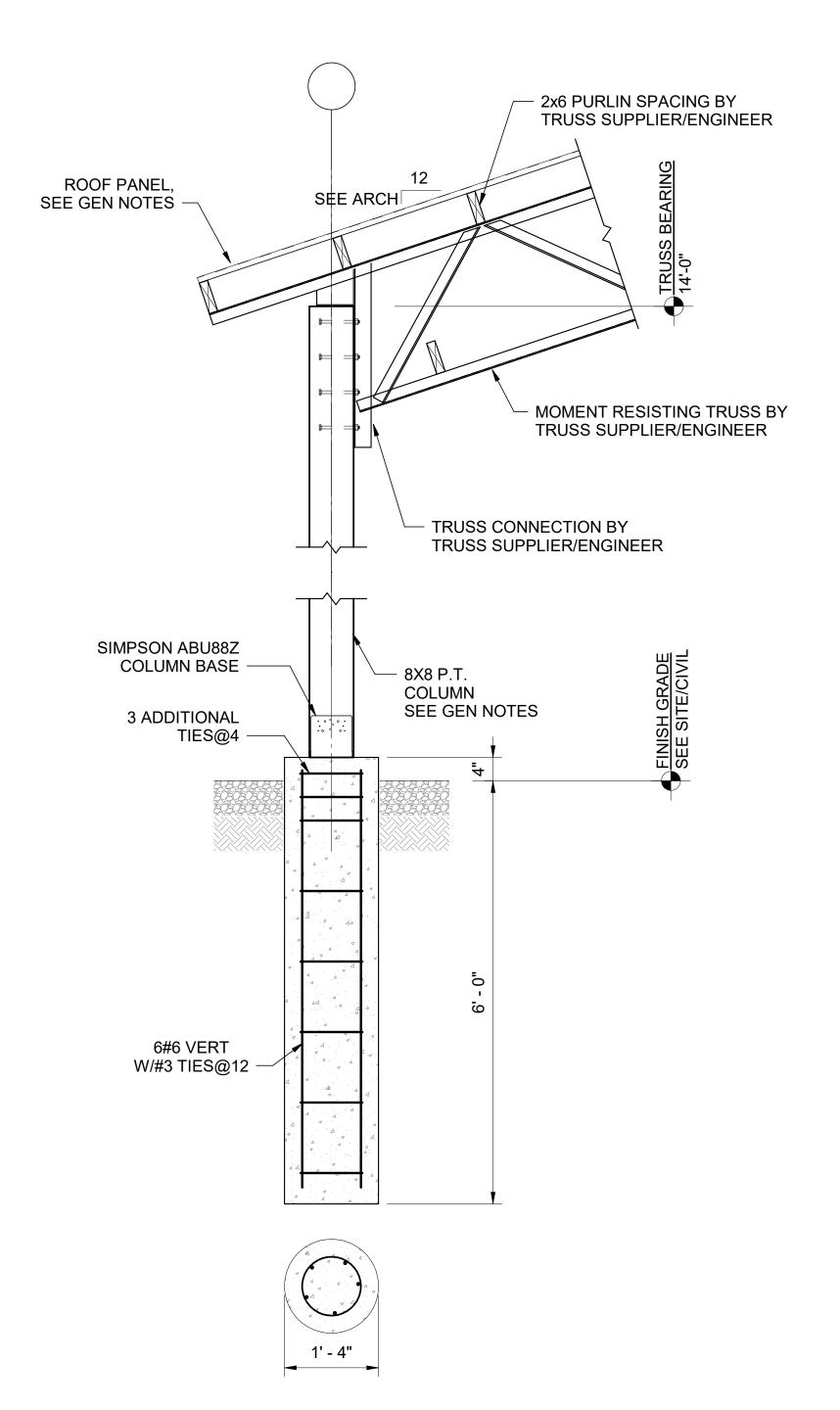












TYPICAL FRAME FOUNDATION

3/4" = 1'-0"

JMR+H Architecture,PC

445 Dexter Avenue Suite 5050 P.O. Box 1706 Montgomery, Al 36104 Phone: (334) 420-5672

Fax: (334) 420-5692



FMTC SOLDIER TRAINING AND TESTING FACILITY FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

Project Number: 22-1165

Date: 31 AUGUST 2022

Revisions:

Sheet Description

BID ITEM B -POLE BARN PLANS AND DETAILS

Sheet Number

BI.B-S2.1

ELECTRICAL SYMBOLS

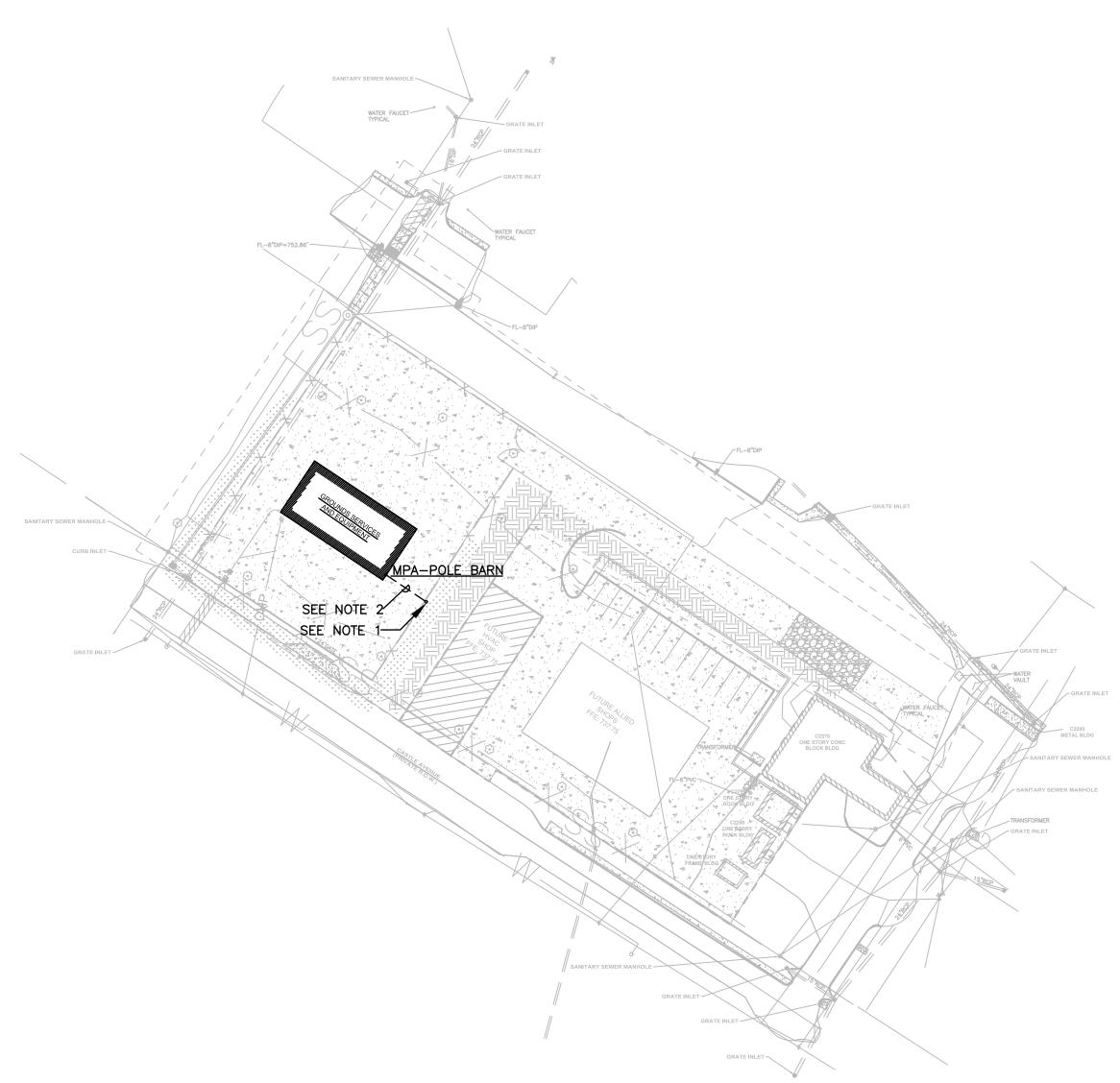
```
CEILING OUTLET - SURFACE LED FIXTURE. HATCHING INDICATES FIXTURE WITH EMERGENCY BATTERY PACK.
               CEILING OUTLET - SURFACE LED FIXTURE.
               WALL OUTLET - LED BRACKET TYPE.
               WALL OUTLET - LED BRACKET TYPE.
\Rightarrow
               WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, HUBBELL #5362 - GREY.
                             ("WP" DENOTES METAL EXTRA DUTY WEATHERPROOF" COVER)
               WALL OUTLET - GFCI DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, HUBBELL #GF-5362-GY - GREY WITH
                             #S-26 PLATE. ("WP" DENOTES METAL EXTRA DUTY WEATHERPROOF COVER)
               WALL OUTLET - DUPLEX OUTLET, MOUNTED 6" ABOVE COUNTER.
               WALL OUTLET - GFCI DUPLEX OUTLET, MOUNTED 6" ABOVE COUNTER.
               FLOOR OUTLET - CONDUIT STUB UP.
               CEILING OUTLET - JUNCTION BOX.
               WALL OUTLET - JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
               SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 - GREY.("N" DENOTES NARROW)
               SWITCH OUTLET/TIMER - TIME SWITCH WITH ON/OFF BUTTON. HUBBELL #DT2000W OR EQUAL.
               SWITCH OUTLET - AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 - GREY.
               LIGHTING PANEL - SEE SPECIFICATIONS AND SCHEDULE.
               POWER PANELS - SEE SPECIFICATIONS AND SCHEDULE.
               BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.
               BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.
               HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) - 1/2" CONDUIT.
                     3 # 12 & 1 # 12(G) - 3/4" CONDUIT. 4 # 12 & 1 # 12(G) - 3/4" CONDUIT.
              EMPTY CONDUIT -3/4".
               BRANCH CIRCUIT EXPOSED.
              MOTOR SHOWN 5hp (TYPICAL) OR 40 AMPS (TYPICAL).
               EXHAUST FAN MOTOR - FRACTIONAL HORSEPOWER.
\boxtimes
               MAGNETIC MOTOR STARTER.
               NON-FUSED DISCONNECT SWITCH. (RT - RAINTIGHT).
FUSED DISCONNECT SWITCH. (RT - RAINTIGHT).
               EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED.
EXR.
               EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED, UNLESS OTHERWISE NOTED.
               EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND NOT REPLACED.
               ABOVE FINISHED FLOOR.
A.F.G.
               ABOVE FINISHED GRADE.
```

BELOW FINISHED CEILING.

NATIONAL ELECTRICAL CODE.

VERIFY LOCATION.

VER.



POLE BARN ELECTRICAL SITE PLAN

SCALE: 1" = 60' - 0"NOTES:
1. APCO SERVICE POLE.(VER.)
2. APPROXIMATE ROUTING OF UNDERGROUND SECONDARY.(VER.)

GENERAL NOTES

- 1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- 2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD
- 3. CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
- 4. THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
- 5. CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
- 6. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO
- 7. THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT, OUTLETS, ETC.. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION AND WITH THE OTHER TRADES.
- 8. MOUNTING HEIGHTS OF ALL WALL OUTLETS SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED:

INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT OR ENGINEER.

RECEPTACLES.... TELEPHONE OUTLET.. DATA OUTLET... CATV OUTLET.

- 9. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT HEIGHT OF ALL COUNTER TOPS AND BACKSPLASHES ON CASEWORK SHOP DRAWINGS AND CHANGE SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED SO THAT BOTTOM OF OUTLET BOX IS 2" ABOVE TOP OF BACKSPLASH OR IF NO BACKSPLASH IS USED, 4" ABOVE COUNTERTOP.
- 10. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO ANOTHER.
- 11. VERIFY ALL DOOR SWINGS WITH THE ARCHITECT BEFORE ROUGHING IN LIGHT SWITCHES.
- 12. CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT MOUNTING TYPE AND SPACE REQUIRED PRIOR TO ROUGH-IN.
- 13. BRANCH CIRCUITS SHALL BE #12 AWG AND 1/2" CONDUIT MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER. SEE SPECIFICATIONS FOR INSULATION TYPE.
- 14. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
- 15. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
- 16. SUPPORT OF ALL LIGHTING FIXTURES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. SEE SPECIFICATIONS FOR SUPPORTING METHODS.
- 17. COORDINATE SERVICES WITH POWER AND COMMUNICATION COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
- 18. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED CONDUCTORS. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. SIZE GROUND CONDUCTORS PER
- 19. ALL UTILITY FEES ASSOCIATED WITH THIS PROJECT SHALL BE INCLUDED IN BID. IF THESE FEES CANNOT BE OBTAINED FROM THE UTILITY PRIOR TO BID, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY.
- 20. CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL EQUIPMENT WITH ARC-FLASH WARNING LABELS PER NEC 110.16.
- 21. VERIFY EXACT LOCATION AND EXACT MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CONNECTIONS WITH THE ARCHITECT AND THE OWNER PRIOR TO ROUGH-IN.
- 22. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF ELECTRICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING AND ORDERING EQUIPMENT.

LIGHTING FIXTURE SCHEDULE

		UFACTURER CATALOG NO.		LAMPS		MOUNTING LIFECUT	TYPE MOUNTING	RECESS DEPTH	REMARKS
MARK	MANUFACTURER			WATTS	TYPE	MOUNTING HEIGHT			
A22	LITHONIA	VAP-8000LM-FST-WD-120-GZ10-50K-80CRI-WLFEND2	FURNIS	FURNISHED WITH FIXTURE		CEILING	SURFACE		SEE NOTE 1
D12	LITHONIA	ZL1D-L48-7000LM-FST-120-50K-80CRI-WH	FURNIS	FURNISHED WITH FIXTURE		CEILING	SURFACE		SEE NOTE 1
D13	LITHONIA	ZL1D-L48-7000LM-FST-120-50K-80CRI-E7W-WH	FURNIS	HED WITH	FIXTURE	CEILING	SURFACE		SEE NOTE 1
L4	LITHONIA	WST LED-P3-50K-VF-120-PE-SF-DDBXD	FURNIS	HED WITH	FIXTURE	+13' A.F.F.	SURFACE		SEE NOTES 1 & 2

- 1. EQUAL FIXTURE BY COLUMBIA AND DAYBRITE WILL BE ACCEPTABLE
- 2. VERIFY FINISH WITH ARCHITECT.

JMR+H

Montgomery, Al 36104

Phone: (334) 420-5672

Fax: (334) 420-5692

Architecture, PC 445 Dexter Avenue

J.MICHAEL

RUTLAND

2149

TIMOTHY

HOLMES

3188

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FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

16 OF 47



CONSTRUCTION DOCUMENTS

Project Number: 22-1165 Date: 23 AUGUST 2022

Sheet Description

SYMBOLS, NOTES, LIGHTING FIXTURE SCHEDULE AND POLE BARN ELECTRICAL SITE

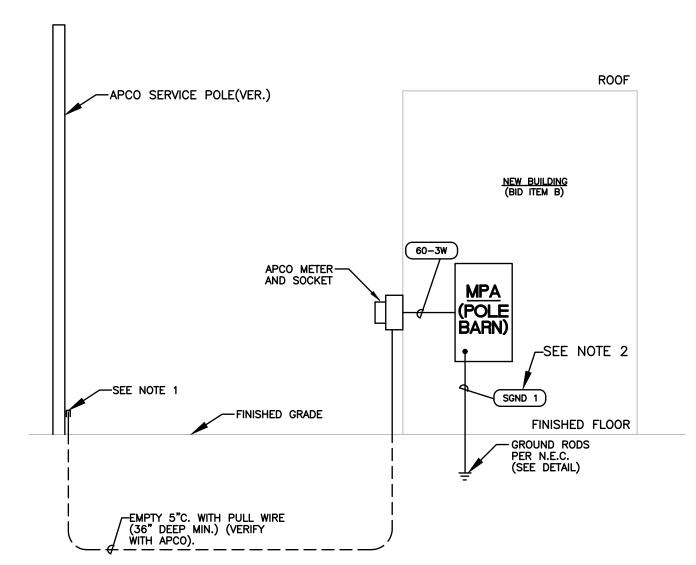
PLAN

Sheet Number

BI.B/E1.1

FEEDER/GROUND CONDUCTOR SCHEDULE

<u> </u>	1						
AMPS	1 Ø WIRE TAG	SINGLE PHASE FEEDER					
60 W/O GND	60-3W	3 #4 IN 1-1/4" C.					
MISCELLANEOUS TAGS							
	SGND 1	1 #8 CU IN 1/2" C.					

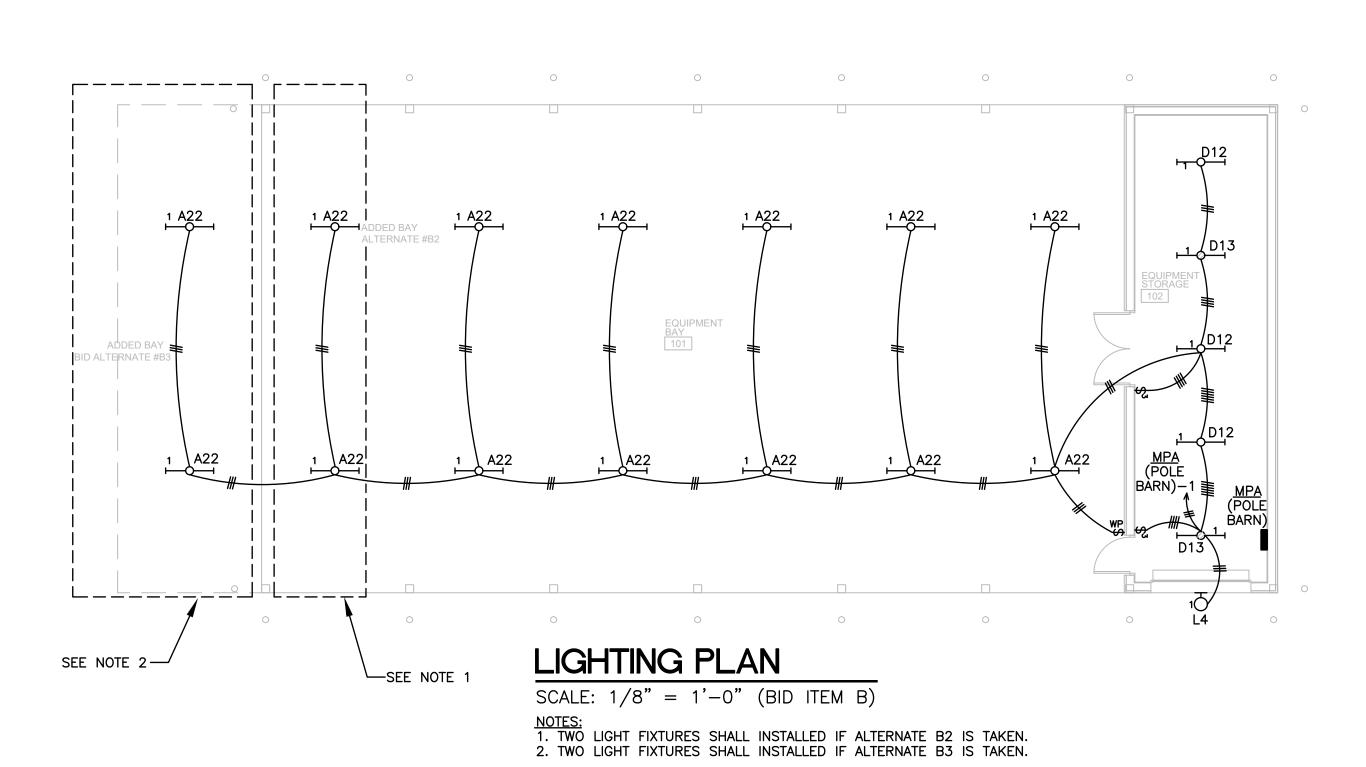


ELECTRICAL SINGLE LINE DIAGRAM

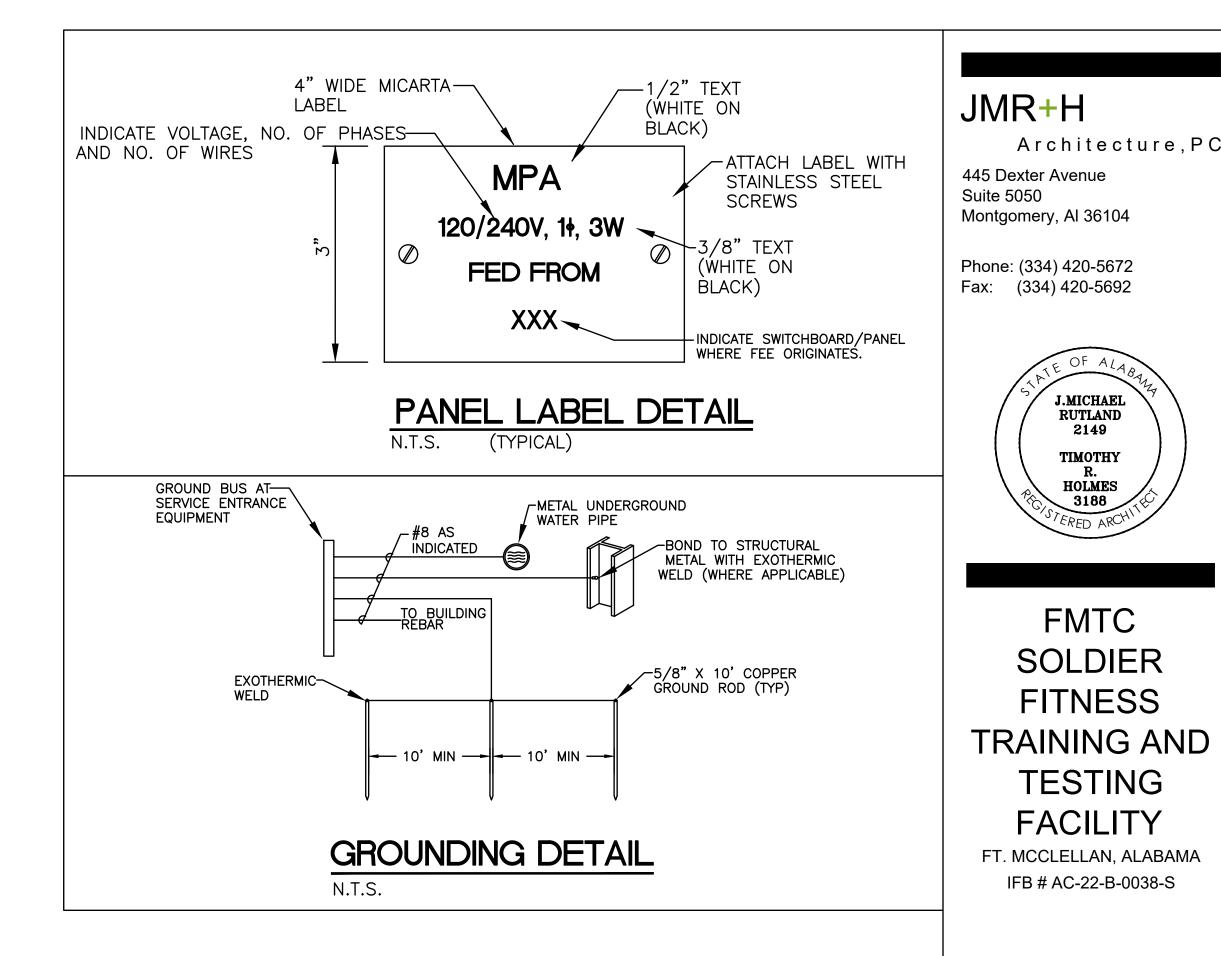
(BID ITEM B) NOTES:

1. STUB UP AT BASE OF POLE FOR 120/240V, 1ø, 3W APCO UNDERGROUND SERVICE FROM OVERHEAD TRANSFORMER.

2. SEE SCHEDULE ON THIS SHEET FOR WIRE SIZE. (TYP)



ALL 120 VOLT CIRCUIT WIRE SIZES SHALL BE BASED UPON DISTANCE FROM PANELBOARD FEEDING THE CIRCUITS AS FOLLOWS AND THE CIRCUITS SHALL HAVE A 3% VOLTAGE DROP OR LESS: LESS THAN 75 FEET.....#12 AWG
BETWEEN 76' AND 125'.....#10 AWG
BETWEEN 126' AND 190'....#8 AWG



PANELBOARD SCHEDULE

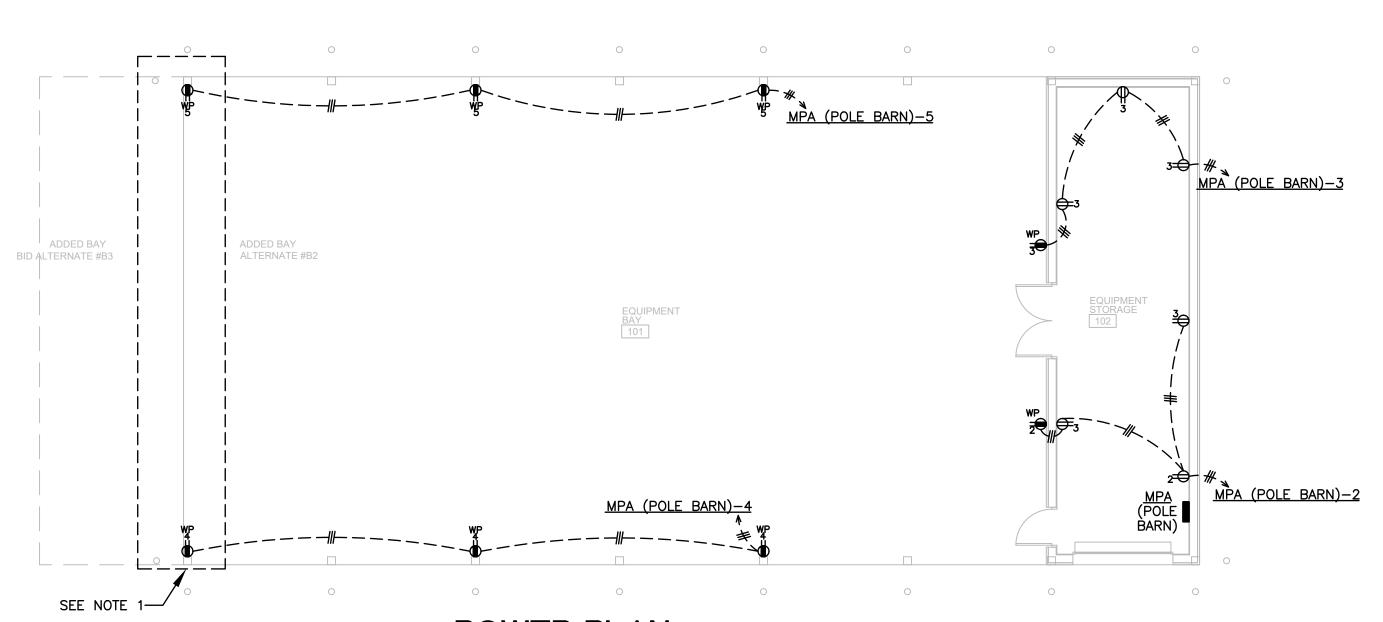
MADK	MARK	TYPE MAINS BRANCHES LUG	TYPE	MAINS						BRANCHES					REMARKS
MATIN	11176	TYPE	AMPS	SERVICE	1 POLE	2 POLE	3 POLE	SPARES	SPACES	LOCATION	MOUNTING	RATING	NEMARKS		
MPA(POLE BARN)(BID ITEM B)	NQOD	МВ	60	120/240V 1ø, 3W	5-20			6-20/1	19-1PS	воттом	SURFACE	VERIFY WITH APCO	SEE NOTES 1, 2 & 3		

NOTES:

1. PANEL SHALL BE EQUIPPED WITH BUILT—IN SURGE PROTECTION, CAPABLE OF WITHSTANDING A TRANSIENT SURGE OF 160,000 AMPS.

2. PANEL SHALL BE SERVICE ENTRANCE RATED.

3. PANEL SHALL BE FULLY RATED AND HAVE HINGED FRONT TRIM.



POWER PLAN SCALE: 1/8" = 1'-0" (BID ITEM B) NOTES:
1. TWO RECEPTACLES SHALL INSTALLED IF ALTERNATE B2 IS TAKEN.

McCARTER ELECTRICAL ENGINEERING CONSULTANTS PHONE: (256) 240-7335 878 AVALON LANE ANNISTON, AL 36207 8-23-22 M.E. JOB #2232

CONSTRUCTION **DOCUMENTS**

Architecture, PC

J.MICHAEL

RUTLAND 2149

TIMOTHY R.

HOLMES 3188

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IFB # AC-22-B-0038-S

Project Number: 22-1165 Date: 23 AUGUST 2022 Revisions:

Sheet Description

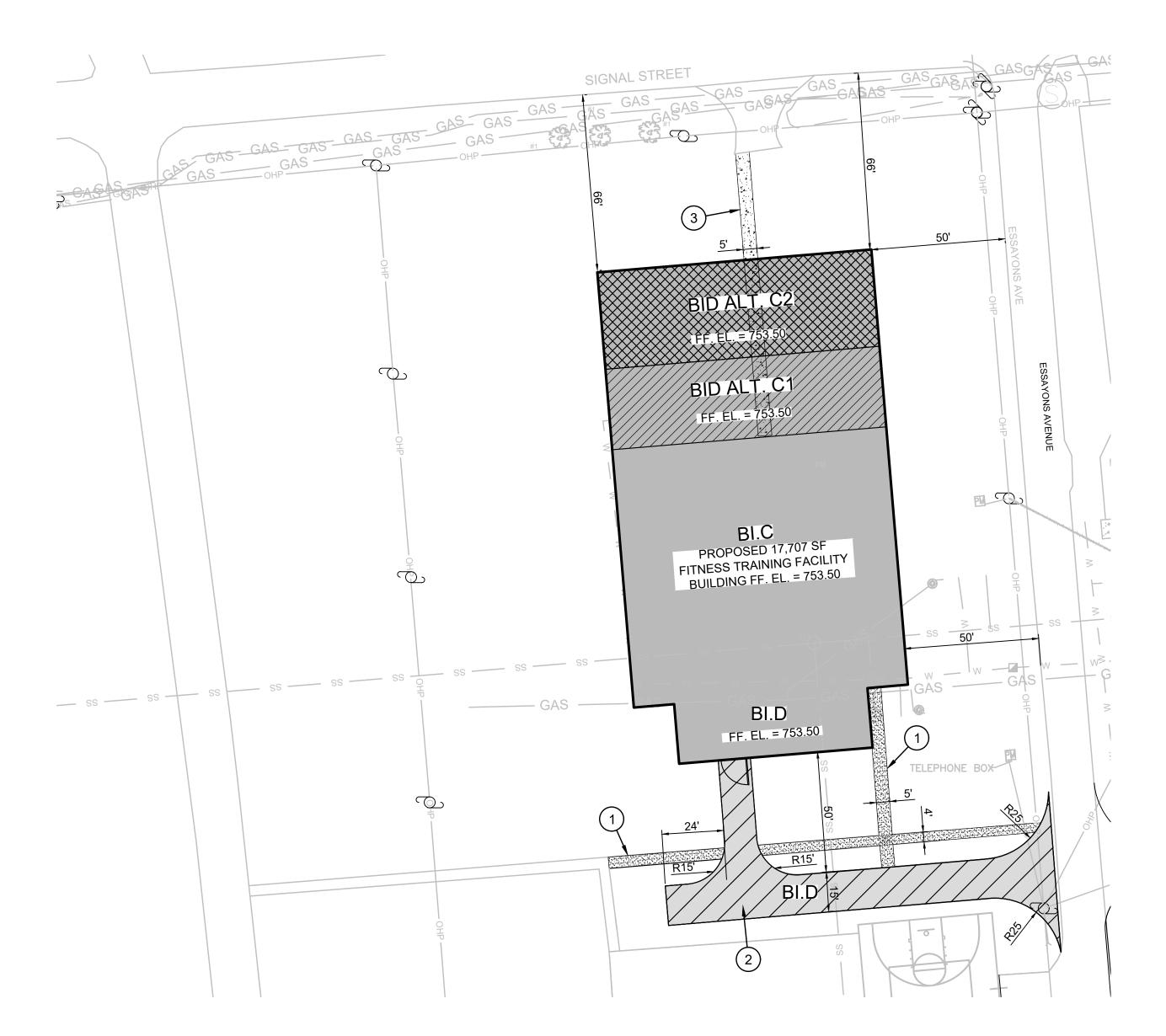
POLE BARN LIGHTING AND POWER PLANS, SCHEDULES, DETAILS AND SINGLE LINE DIAGRAM

Sheet Number

BI.B/E2.1



SITE DEMOLITION PLAN - BID ITEM A



SITE LAYOUT PLAN

SITE DEMOLITION NOTES **BID ITEM A**

- DEMOLITION LIMITS TYP. ALL ABOVE GRADE IMPROVEMENTS WITHIN THE DEMOLITION LIMITS SHALL BE DEMOLISHED AND REMOVED FROM THE SITE. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION IN A LEGAL MANNER
- 2 EXISTING UTILITY TO BE DEMOLISHED
 - 3 EXISTING STORM DRAINAGE IMPROVEMENT TO REMAIN.
 - 4 EXISTING SANITARY SEWER MAIN TO REMAIN. SEE SITE UTILITY PLAN FOR DETAILS.
- SANITARY SEWER MAIN TO BE DEMOLISHED. SEE SITE UTILITY PLAN FOR DETAILS. CONTRACTOR SHALL PROVIDE TEMPORARY PUMP AROUND AS NEEDED
 - 6 EXISTING UTILITY TO REMAIN. CAP AND PLUG
 - (7) EXISTING UTILITY TO REMAIN. CONTRACTOR SHALL PROTECT AT ALL TIMES DURING CONSTRUCTION.
 - 8 SAW CUT EXISTING SIDEWALK
 - 9 EXISTING SIDEWALK TO REMAIN.

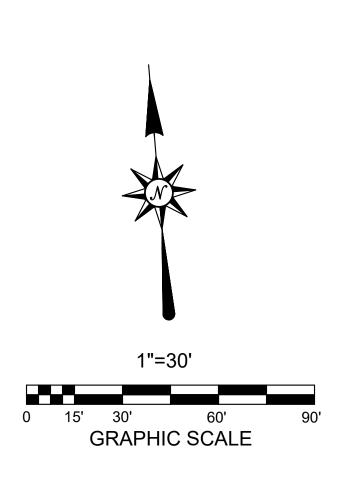
 - (11) EXISTING BUILDINGS TO BE DEMOLISHED.
 - (12) EXISTING SANITARY SEWER LINE TO BE FIELD LOCATED AND TV INSPECTED TO VERIFY IF LINE IS STILL IN SERVICE.
 - (13) BASKETBALL COURT TO REMAIN. CONTRACTOR SHALL PROTECT AT ALL TIMES DURING CONSTRUCTION.

SITE LAYOUT NOTES **BID ITEM C**

- 1) CONCRETE SIDEWALK REQD.
- 2 HEAVY DUTY ASPHALT PAVEMENT REQD.
- 8" DENSE GRADE AGGREGATE BASE REQD.

BID ITEM C1

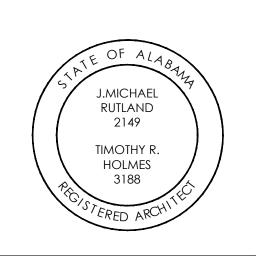
- DELETE 30 LF OF 5' WIDE DENSE GRADE BASE SIDEWALK
- DELETE 30 LF OF 5' WIDE DENSE GRADE BASE SIDEWALK





JMR+H Architecture, PC 445 Dexter Avenue Suite 5050 Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



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CONSTRUCTION DOCUMENTS

31 AUGUST 2022

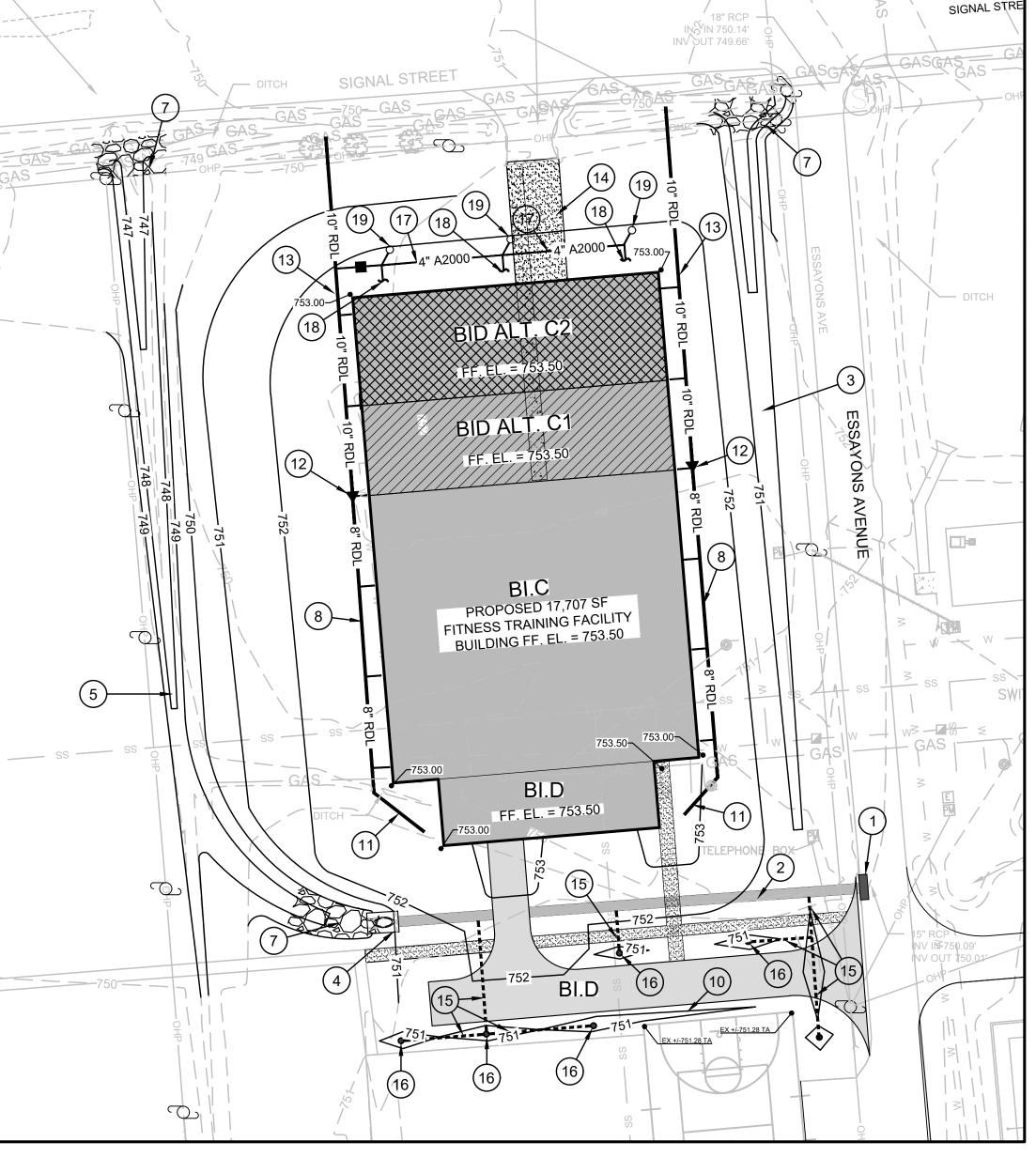
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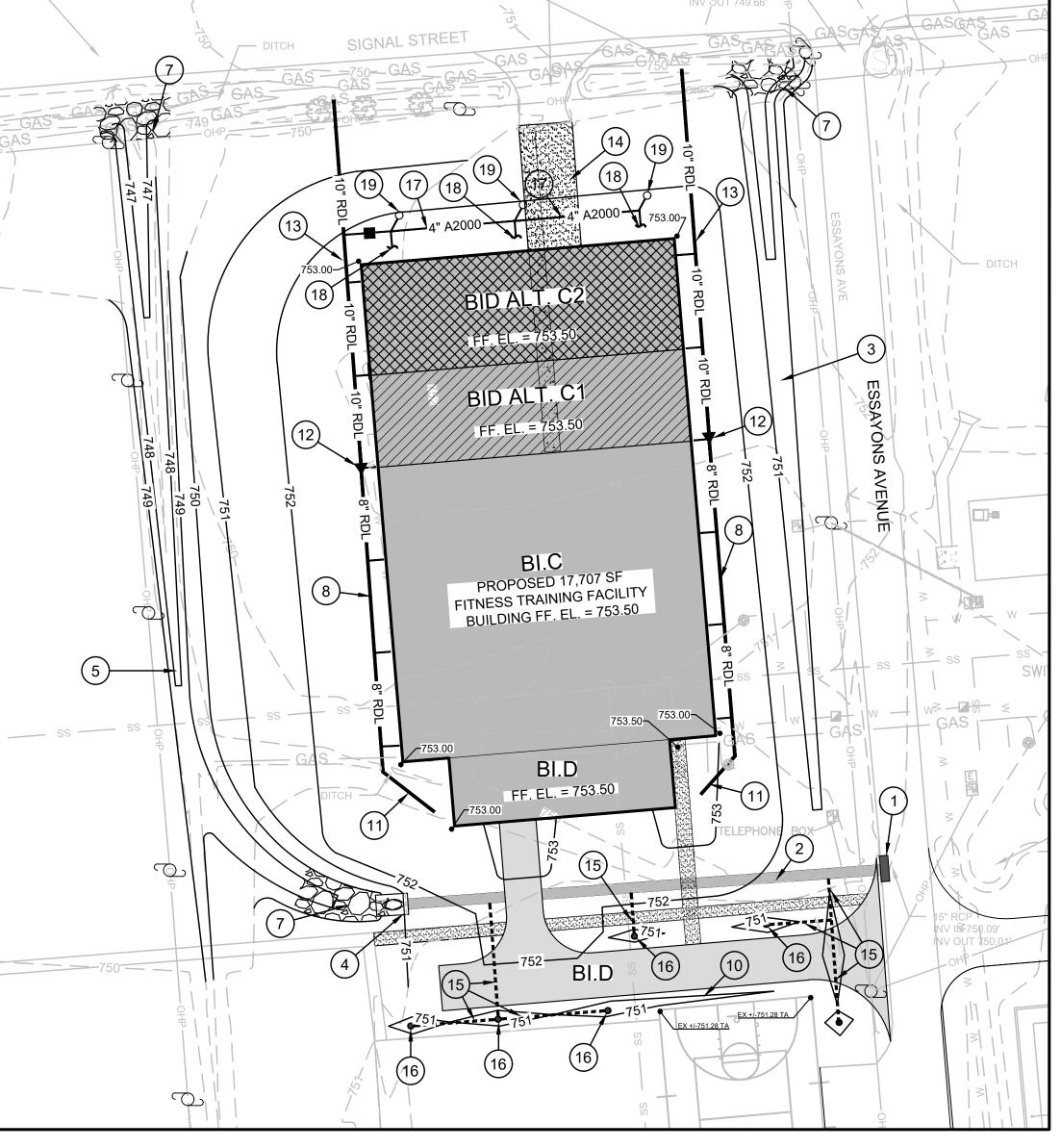
SFTTF FACILITY DEMOLITION AND LAYOUT PLAN

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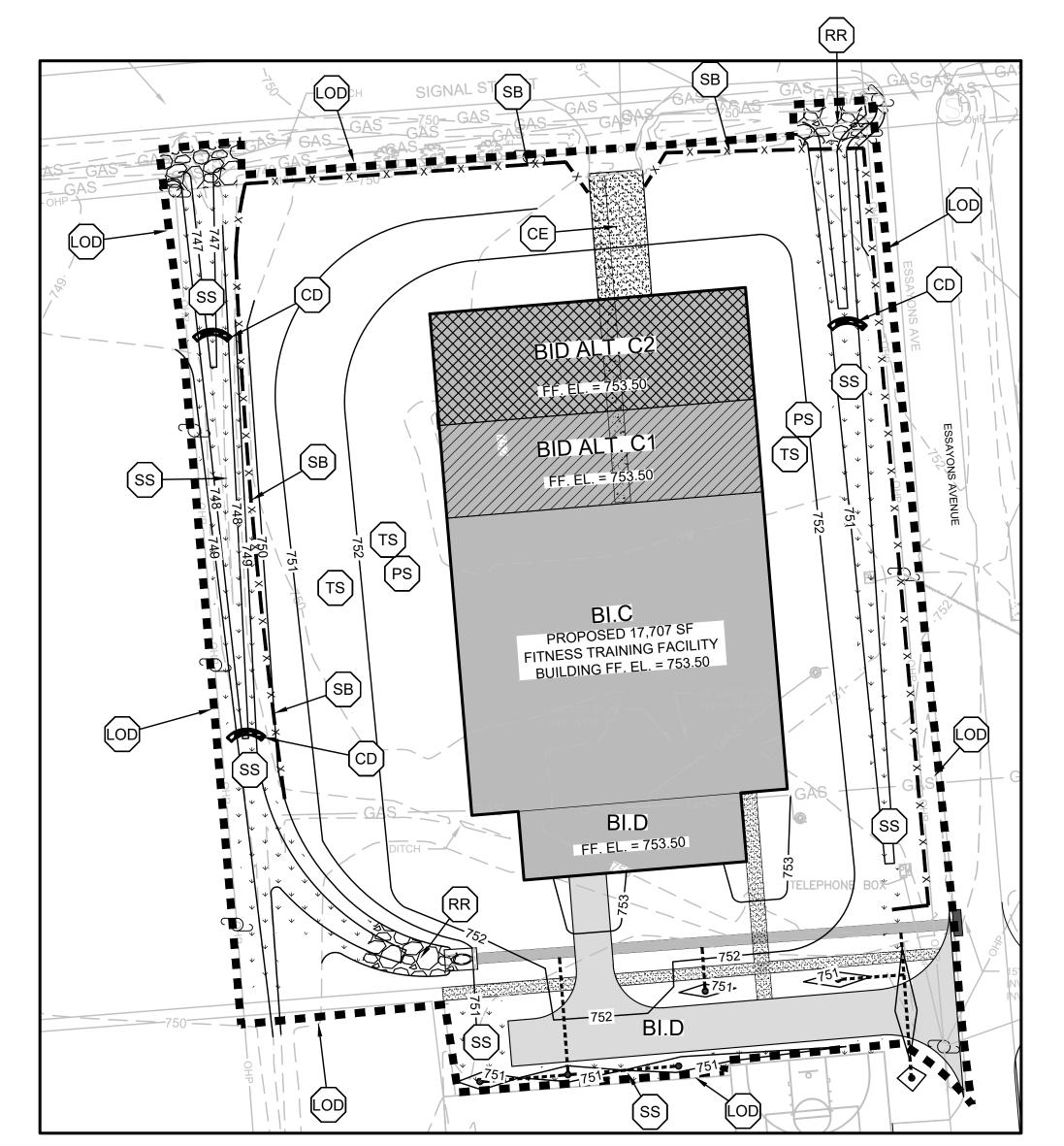
BI.C/C400







SITE GRADING PLAN



SITE EROSION CONTROL PLAN

SITE GRADING AND DRIANAGE NOTES **BID ITEM C**

NOTE: BID ITEM C SHALL INCLUDE ALL EARTH WORK REQUIRED FOR BID ITEM C, C1, C2, & D. CONTRACTOR SHALL INCLUDE TOPSOIL AND PERMANENT SITE EROSION OF C1, C2, & D IN BID ITEM C.

- 1) CONCRETE COLLAR REQD.
- 2) 160 LF 15" PVC (A2000) STORM PIPE @ 0.5% GR REQD.
- 3 FT FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES @ 0.5% MAX GR REQD.
- 3:1 SLOPE PAVED HEADWALL INV = 749.20 REQD.
- 5 3 FT FLAT BOTTOM DITCH WITH 3:1 SIDE SLOPES @ 1.0 GR REQD.

- 8" ROOF DRAIN COLLECTOR REQUIRED. CONTRACTOR SHALL TIE DOWN DRAINS TO COLLECTOR PIPE. REFER TO ROOF PLANS FOR DETAILS
- 9 DELETED
- (10) SWALE TO DRAIN
- 8"PVC (A2000) ROOF DRAIN COLLECTOR REQD. CONTRACTOR SHALL REFER TO ROOFING PLAN FOR TIEING DOWN DRAINS TO ROOF DRAIN COLLECTOR. MIN SLOPE OF 1.0%.
- (12) 8" X 10" EXPANSION REQD.
- 10"PVC (A2000) ROOF DRAIN COLLECTOR REQD. CONTRACTOR SHALL REFER TO ROOFING PLAN FOR EXACT LOCATION OF DOWNSPOUT TIE LOCATIONS. DAYLIGHT TO EXISTING DRAINAGE DITCH. (TYP)

(14) CONSTRUCTION EXIT PAD

- 8" A2000 STORM PIPE REQ'D. TIE TO PROPOSED 15" STORM. PROVIDE WATER TIGHT CONNECTION. SLOPE AT MIN. 0.5% GRADE (TYP.)
- 8" A2000 AREA DRAIN REQ'D. SEE DETAILS.
- (17) 4" A2000 STORM PIPE REQ'D.
- 18) TIE SUBSURFACE DRAIN TO PROPOSED 4" STORM PIPE. SEE ARCHITECTURAL PLANS FOR CONTINUATION INTO BUILDING.
- (19) CLEAN OUT REQ'D. (TYP)

BID ITEM C1

DELETE TOPSOIL FROM BID ITEM C1, AND REMOVE TEMPORARY CROWN.

BID ITEM C2

DELETE TOPSOIL FOR BID ITEM C2 AND REMOVE TEMPORARY CROWN.

BID ITEM D

DELETE TOPSOIL FOR BID ITEM D AND REMOVE TEMPORARY CROWN.

SITE EROSION CONTROL NOTES

BID ITEM C

CONSTRUCTION EXIT REQD.

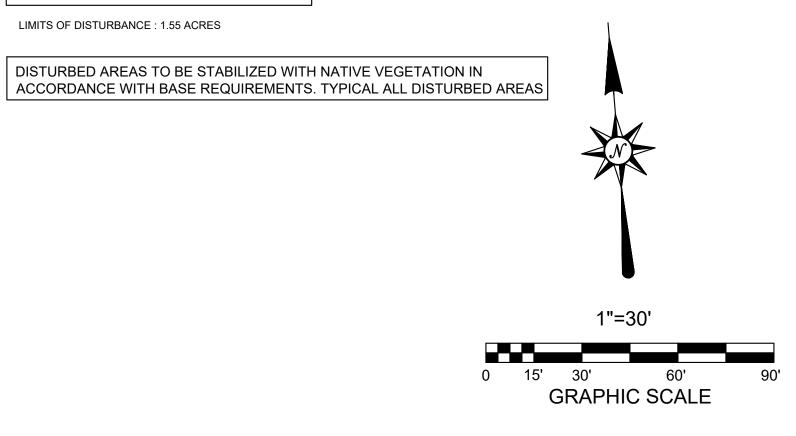
- SEDIMENT BARRIER REQD.
- TEMPORARY SEEDING REQD.
- PERMANENT SEEDING REQD.

- (CD) ROCK CHECK DAM REQD.
- STAKED SOLID SOD REQD.

LOD LIMITS OF DISTURBANCE

FEMA 100 YEAR BASE FLOOD ELEVATION: 750

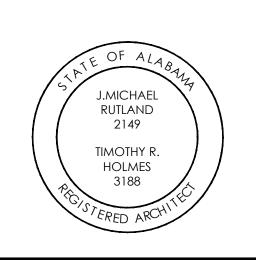
LIMITS OF DISTURBANCE : 1.55 ACRES





JMR+H Architecture, PC 445 Dexter Avenue Suite 5050 Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



FMTC SOLDIER **FITNESS** TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S



CONSTRUCTION DOCUMENTS

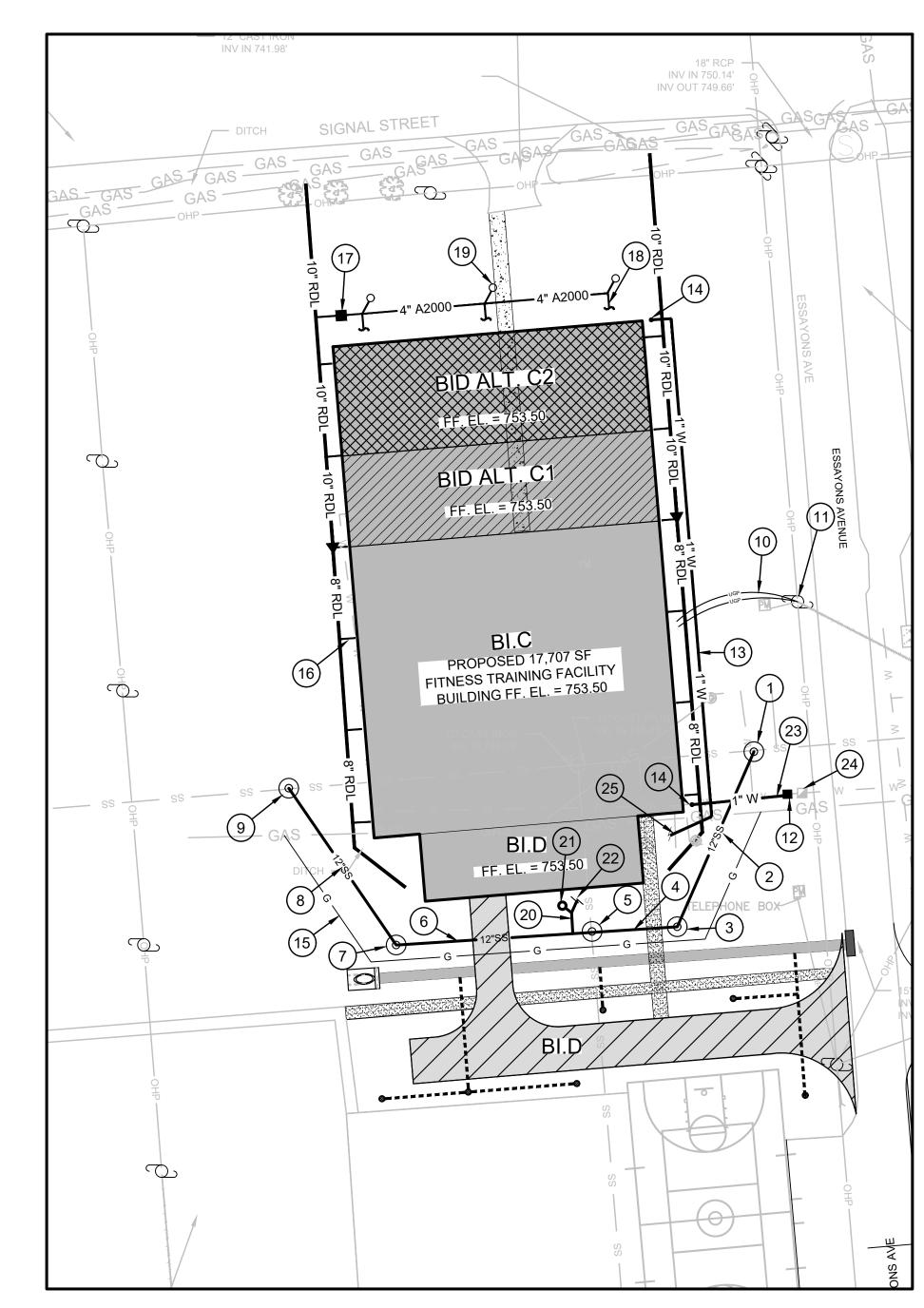
Project Number: 22-1165 31 AUGUST 2022 Revisions:

Sheet Description SFTTF FACILITY SITE **GRADING AND EROSION** CONTROL PLAN

Sheet Number

BI.C/C500





SITE UTILITY PLAN

SITE UTILITY NOTES

BID ITEM C

SANITARY SEWER MANHOLE REQD TOP EL= 751.50 INVERT (W)= 746.54 INVERT (SW)= 746.46

2 62 LF 12 DIP CLASS 350 SANITARY SEWER MAIN AR 1% GR REQUIRED

3 SANITARY SEWER MANHOLE REQD TOP EL= 752.95 INVERT (NE)= 745.84 INVERT (W)= 745.76

4 28 LF 12 DIP CLASS 350 SANITARY SEWER MAIN AT 1% GR REQUIRED

SANITARY SEWER MANHOLE REQD TOP EL= 752.80 INVERT (E)= 745.48 INVERT (S) = 745.45

6 64 LF 12 DIP CLASS 350 SANITARY SEWER MAIN @ 0.35% GR REQUIRED

SANITARY SEWER MANHOLE REQD TOP EL= 752.30 INVERT (IN)= 745.18 INVERT (NW)= 745.10

INVERT (W)= 745.40

8 62 LF 12 DIP CLASS 350 SANITARY SEWER MAIN AT 0.35% GR REQUIRED

9 SANITARY SEWER MANHOLE REQD TOP EL= 752.05 INVERT (SE)= 744.85 INVERT (W)= 744.77

10 2 @ 5" ELECTRICAL CONDUITS REQD

11) POLE MOUNTED TRANSFORMER AND METER REQD

1" BACK FLOW PREVENTER REQD

13 1" WATER SERVICE TYPE K COPPER REQD

1" FREEZE PROOF HOSE BIB REQD. LOCATE AT CORNER OF BUILDING BASED ON AWARDED BID ITEMS.

EXISTING GAS LINE TO BE RELOCATED AROUND PROPOSED IMPROVEMENTS. CONTRACTOR TO COORDINATE WITH GAS COMPANY. (TYP.)

TIE ROOF DOWNSPOUTS TO PROPOSED ROOF DRAIN LATERAL WITH BOOT.
SEE ARCH PLANS. CONNECT FIELD SUBDRAINAGE SYSTEM REFERENCED ON
DETAIL B/BI.C/A2.2. (TYP ALL DOWNSPOUTS)

BACKFLOW PREVENTER REQ'D. SEE DETAIL ON THIS SHEET (TYP.)

A BACKFLOW PREVENTER REQ D. SEE DETAIL ON THIS SHI

18) 3" SUB-DRAINAGE REQ'D (TYP.)

19) STORM CLEANOUT REQ'D. (TYP)

BID ITEM D

(20) 4' SANITARY SEWER LATERAL (DIP CLASS 350) @ 2% MIN GR REQD.

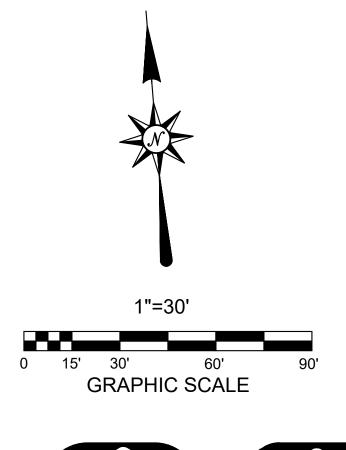
21) SANITARY SEWER CLEANOUT REQD.

SANITARY SEWER LATERAL INTO BUILDING. SEE MBP PLANS FOR CONTINUATION.

23) 1" WATER SERVICE REQD. CONTRACTOR SHALL TIE TO WATER SERVICE.

24) EXISTING WATER METER TO REMAIN AND BE UTILIZED (TYP).

25) EXTEND 1" WATER SERVICE TO BID ITEM D IF AWARDED.





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OF 47

AS REQUIRED BY ALABAMA LAW

CALL 2 WORKING DAYS

BEFORE EXCAVATION

811

ALABAMA LINE LOCATION CENTER, INC.

FMTC
SOLDIER
FITNESS
FITNESS
TRAINING AND
TESTING
FACILITY
FT. MCCLELLAN, ALABAMA
IFB # AC-22-B-0038-S

RUTLAND

TIMOTHY R. HOLMES

JMR+H

445 Dexter Avenue

Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692

Suite 5050

Architecture, PC



CONSTRUCTION DOCUMENTS

Project Number: 22-1165

Date: 31 AUGUST 2022

Revisions:

Sheet Description

SFTTF FACILITY SITE UTILITY PLAN

Sheet Number

BI.C/C600

PRECAST YARD INLET

40 lbs

10 lbs

30 lbs

Solid Sod

Sprigs 1/sq ft

40-60 lbs

4 lbs

80% and 10% inert material, 10 lbs PLS = 10 lbs/% live seed = 10/0.70 = 14.3 lbs.

Bahiagrass

Pensacola

Bermudagrass,

Common

Bahiagrass, Pensacola Bermudagrass Common

Bermudagrass

Hybrid (Lawn)

Bermudagrass

Hybrid (Lawn)

Fescue, Tall

Sericea

Sericea & Common

Bermudagrass

Switchgrass,

N.T.S

PERMANENT SEEDING

April 1 - July 1

Anytime

Mar 1 - Aug 1

PLS means pure live seed and is used to adjust seeding rates. For example, to plant 10 lbs PLS of a species with a germination of

Seeding Dates

Mar 1 - July 1

Anytime

Sep 1 - Nov 1

Mar 15 - July 15 | Mar 1 - July 15 | Feb 15 - July 15

Mar 15 - July 15 | Mar 1 - July 15 | Feb 15 - July 15

Apr 1 - Jun 15 | Mar 15 - June 15 | Mar 15 - June 15

Mar 1 - July 1 | Feb 1 - Nov 1

| Mar 15 - July 15 | Mar 1 - July 15

Mar 1 - Aug 1 │ Feb 15 - Sep 1

Mar 1 - July 15

Anytime

TOOLED JOINT BETWEEN SIDEWALK EDGE AND

CURB & GUTTER

CONCRETE

CONC. SIDEWALK-LIGHT

BROOM FINISH, TYP.

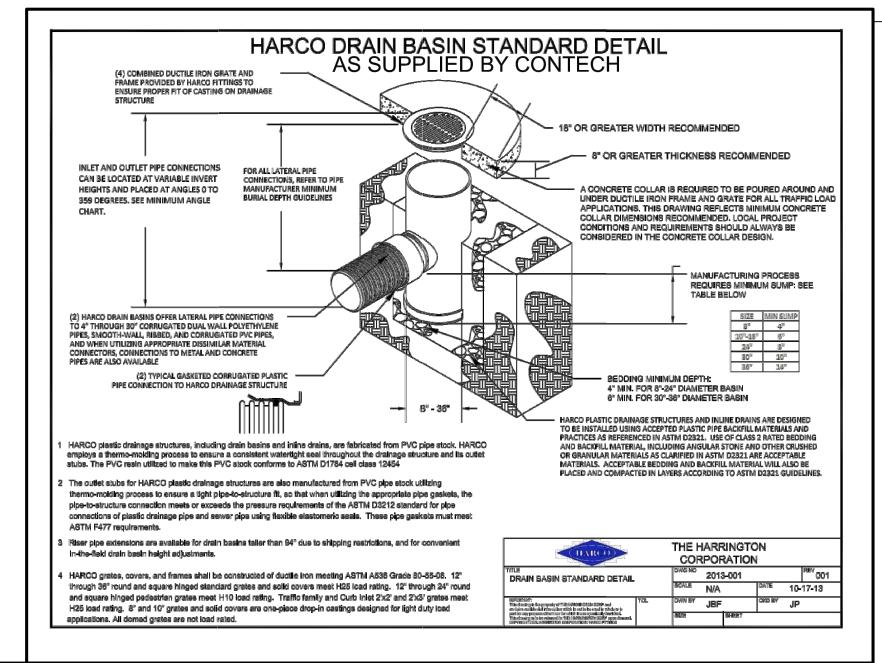
1.5% MAXIMUM SLOPE

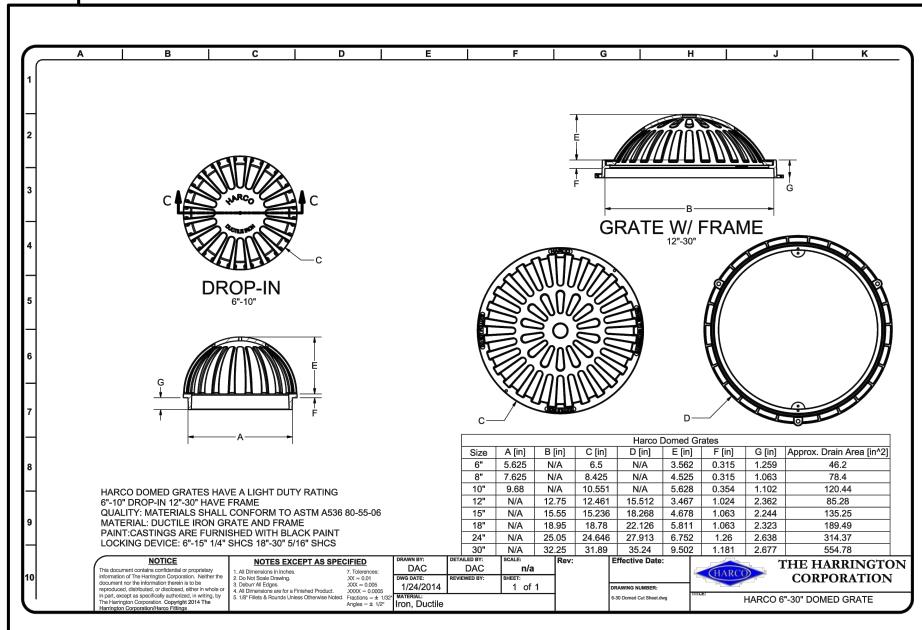
CRUSHED STONE

COMPACT SUBGRADE

TO 100% STD. PROCTOR.

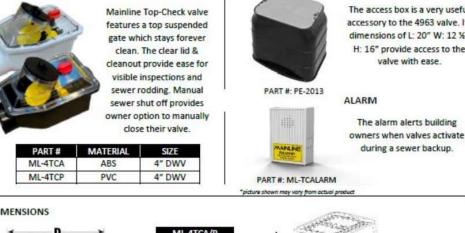
ON-SITE CONCRETE SIDEWALK

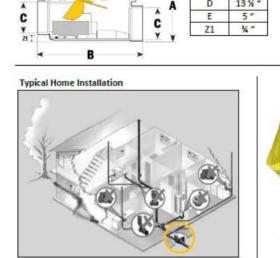






Top-Check Fullport Backwater Valve BACKWATER VALVE ACCESS BOX Mainline Top-Check valve









1802T-305 Are NW
Edwarden, All, Canada TSC 285
Tod Res. 1877-344861
Enafl: relangitudassteneler.com

BACKFLOW PRODUCTS

NOTE TO GC: THE GOAL OF A CONSTRUCTION EXIT AND ASSOCIATED WHEEL WASH AREAS IS TO ELIMINATE TRACK OUT. SIMPLY MANAGING TRACK OUT THROUGH DESIGNATED OR CONTINUAL STREET SWEEPING IS NOT AN ACCEPTABLE PRACTICE. WHILE STREET SWEEPING IS AN ACCEPTABLE PRACTICE FOR REMOVING DUST AND MINIMAL AMOUNTS OF FINE SEDIMENT OBSERVABLE TRACK OUT FROM THE PROJECT SHOULD TRIGGER THE USE OF ADDITIONAL MEASURES (WHEEL WASH), CONSIDERATION OF ALTERNATE EXITS, OR DISCONTINUING VEHICLE TRAFFIC UNTIL CONDITIONS ON-SITE HAVE IMPROVED. TRACK OUT IS A SEDIMENT RELEASE. MAINTENANCE NOTES

2"-3" CLEAN STONE

MAINTENANCE NOTES

subject to freezing temperatures.

from the casing after shut-off.

1/8" NPT Tap for -

24" Crushed Stone -

Rod Coupling 7/16" -

1/8" (3) NPT Drain Hole -

Bleed Fitting Connection

REMOVED WITH VEGETATION.

CD - ROCK CHECK DAM

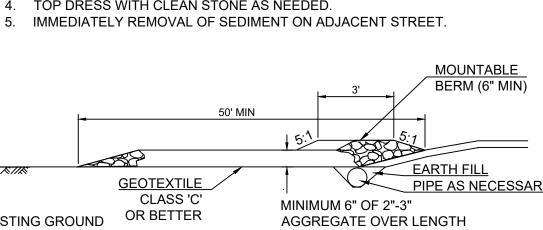
FUNCTION: Used where an above ground water outlet is required in areas which are

Freezing is prevented by burying the valve housing below the frost line and draining water

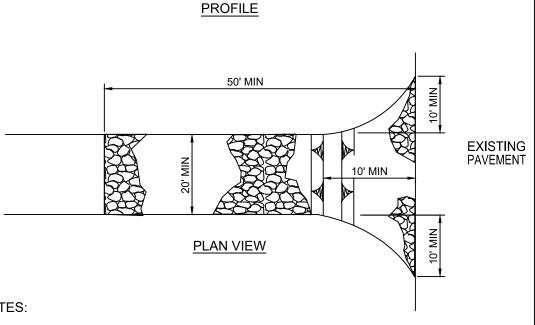
EXIT SHALL BE INSPECTED ALONG ITS ENTIRETY AND MUST BE CLEANED

WHEN SEDIMENT/MUD IS PRESENT ON THE SURFACE OF THE STONE. ALL MATERIAL REMOVED FROM THE STONE SHALL BE STOCKPILED ON AN UPLAND PORTION OF THE SITE IF SUITABLE FOR REUSE.

RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE. 4. TOP DRESS WITH CLEAN STONE AS NEEDED.



EXISTING GROUND AND WIDTH OF STRUCTURE



ALL SITE ACCESS MUST BE CONFINED TO THE CONSTRUCTION EXIT(S) BARRICADE TO PREVENT USE OF ANY LOCATIONS OTHER THAN THE CONSTRUCTION EXIT(S) WHERE VEHICLES OR EQUIPMENT MAY ACCESS THE

CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING/BYPASSING PROVIDE SEDIMENT TRAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED. SEDIMENT TRAP SHALL BE LOCATED OUTSIDE OF THE

RIGHT-OF-WAY AND AT A MINIMUM SETBACK DISTANCE AS REQUIRED PER

LOCAL JURISDICTION. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT(S) IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. ALL WASH WATER MUST BE ROUTED TO A SEDIMENT TRAP OR OTHER TREATMENT AREA AND SHALL NOT BE DIRECTLY DISCHARGED

LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING BEYOND THE PERMITTED PROJECT AREA. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY ANY SEDIMENT DEPOSITED ON THE ROADWAY SHALL BE SWEPT AS

NECESSARY (AND WITHIN THE SAME DAY AS DISCOVERY) AND DISPOSED OF IN AN APPROPRIATE MANNER. SEDIMENT SHALL NOT BE WASHED INTO EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD BEYOND THE EXIT(S). THIS MAY REQUIRE

PERIODIC TOP DRESSING OF THE CONSTRUCTION EXIT(S) AS CONDITIONS CONTRACTOR SHALL BE PERMITTED TO TURN THE STONE WHEN THE SURFACE BECOMES SMOOTH AND SURFACE VOIDS ARE FILLED TO MAINTAIN EFFECTIVENESS OF CONSTRUCTION EXIT UNTIL SUCH TIME THAT VOIDS BELOW THE SURFACE BECOME FILLED AND THE CONSTRUCTION EXIT IS NO

LONGER EFFECTIVE. AT SUCH A TIME THE CONTRACTOR SHALL REMOVE THE INEFFECTIVE STONE AND REPLACE PER DETAIL. . IF EXIT BMP IS STILL INEFFECTIVE, GC MUST CONTACT THE ENGINEER AND SUBMIT AN RFI AS NECESSARY.

WATER TO A DEPTH OF 4" AS

4. AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.

5. THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INSTALLED ACCORDING TO THE TABLE PROVIDED BELOW FOR YOUR RESOURCE ARE

LOCATION IN MANUAL: P. 73

9" PREPARED SUBGRADE COMPACTED TO 98% STANDARD

8" AGGREGATE BASE COURSE #67 STONE COMPACTED TO 100%

LANTS, PLANTING RATES, AND PLANTING DATES FOR TEMPORARY COVER OR COMPANION CROPS

PROCTOR DRY DENSITY (ATSM D 698)

MIRAFI 160N GEOTEXTILE FABRIC

AS DETERMINED BY AASHTO T-99

CRUSHED STONE PAVING SECTION N.T.S.

SODDING

SOD SELECTED SHOULD BE CERTIFIED. SOD GROWN IN THE GENERAL AREA OF THE PROJECT IS DESIRABLE

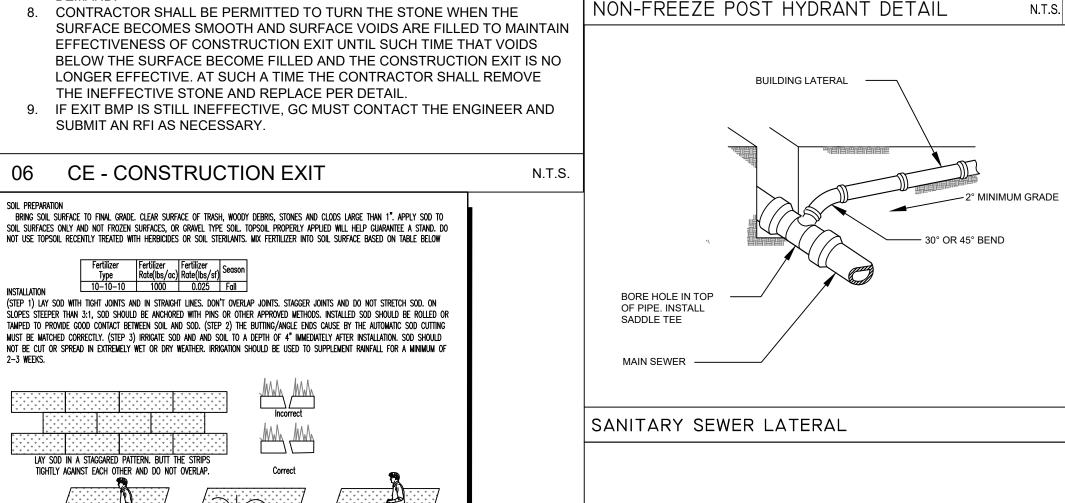
1. SOD SHOULD BE MACHINE CUT AND CONTAIN \(\frac{1}{2} \) \(\frac{1}{2} \) OF SOIL, NOT INCLUDING SHOOTS OR THATCH.

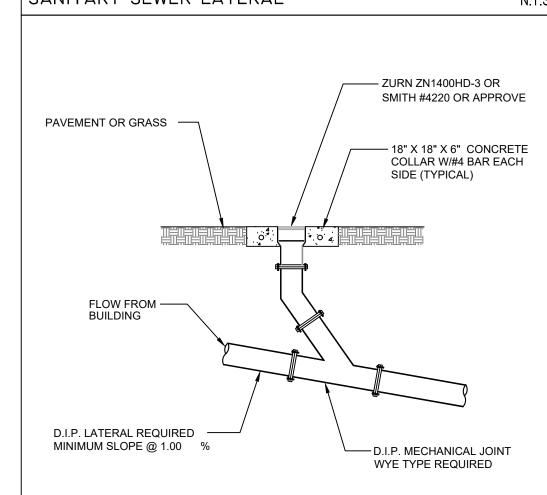
2. SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN \(\frac{1}{2} \) SO, TORN OR UNEVEN PADS SHOULD BE REJECTED.

NEEDED. WATER WELL AS SOON AS

FIRM CONTACT WITH THE SOIL

SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.





DOCUMENTS

JMR+H

Suite 5050

CLASS I RIPRAP UNLESS

1. AFTER RAINFALL EVENTS CHECK THE DAM AND CHANNEL FOR ROCK

REMOVE SEDIMENT WHEN IT REACHES A DEPTH OF 1/2 THE ORIGINAL

REMOVE CHECK DAMS WHEN THEIR USEFUL LIFE HAS BEEN

COMPLETED. STABILIZE THE AREA WHERE CHECK DAMS ARE

Water Supply Line

Fulcrum Bolt and Lock Nut

REGULARLY FURNISHED:

Flow Wheel Lock Handle.

Non-Freeze Post Hydrant with

Galvanized Casing and Adjustable

DISPLACEMENT AND EROSION AND MAKE REPAIRS AS NEEDED.

SPECIFIED OTHERWISE ON

N.T.S.

445 Dexter Avenue

Montgomery, Al 36104

Phone: (334) 420-5672

Fax: (334) 420-5692

J.MICHAEL

RUTLAND

2149

TIMOTHY R.

HOLMES 3188

FMTC

SOLDIER

FITNESS

TRAINING AND

TESTING

FACILITY

FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

Architecture, PC

Project Number: 31 AUGUST 2022 Revisions:

Sheet Description

BID ITEM C **SECTIONS AND DETAILS**

Sheet Number

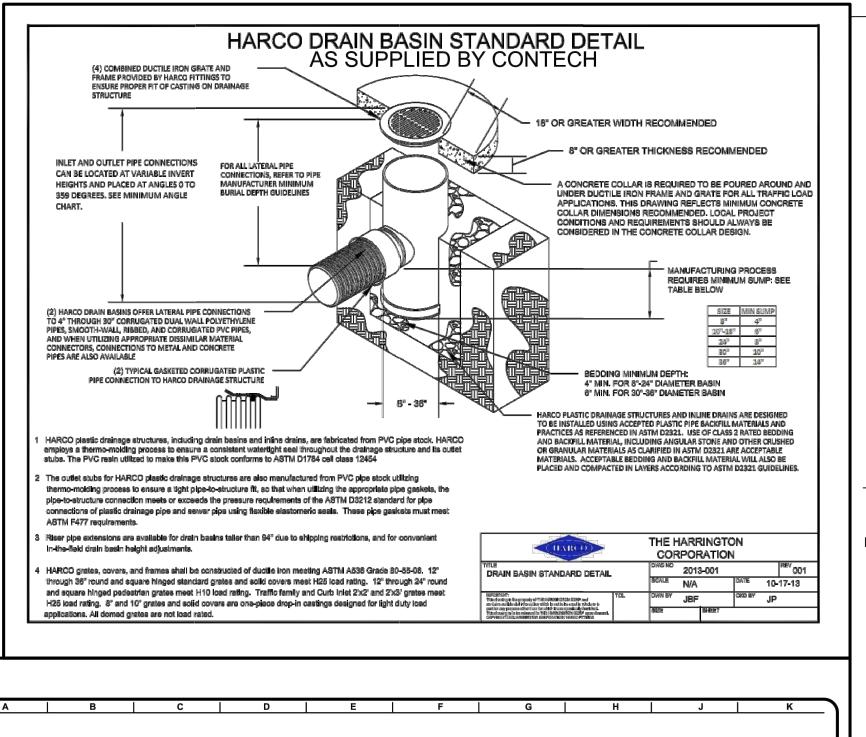
BI.C/C700

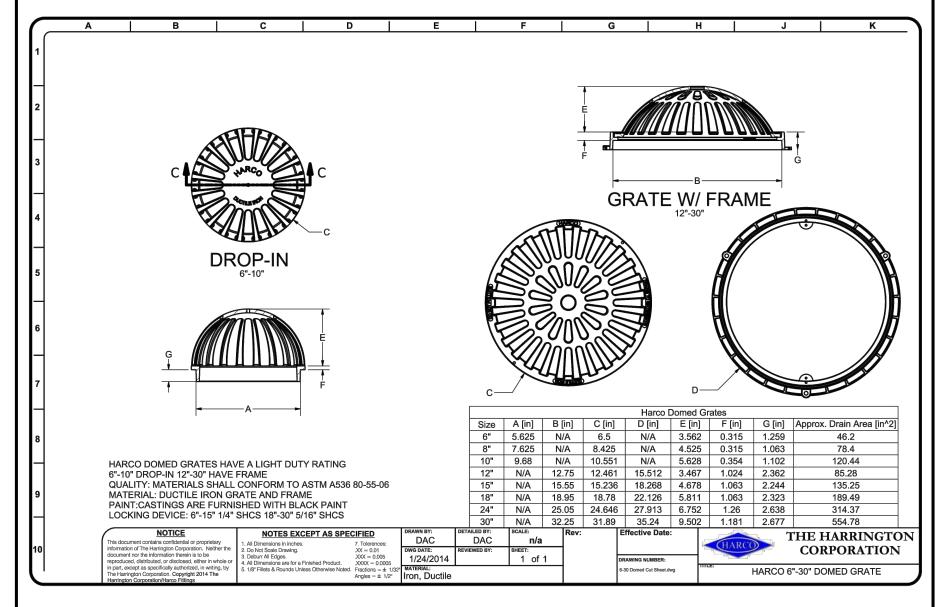
21 OF 47

GONZALEZ - STRENGTH & ASSOCIATES, INC. 2176 PARKWAY LAKE DRIVE **BIRMINGHAM, ALABAMA 35244** PHONE: (205) 942-2486 FAX: (205) 942-3033

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CLEAN OUT DETAIL





<u>"L" BAR</u>

CORNER BAR

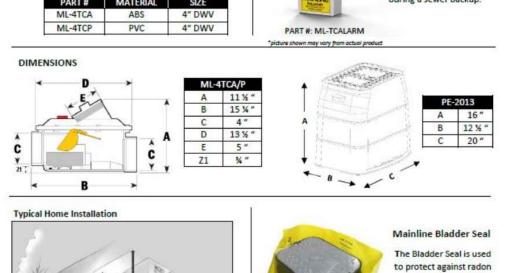
N.T.S.

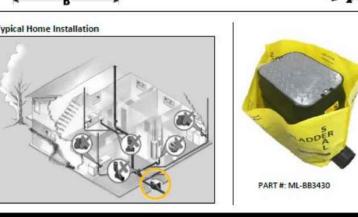
REINFORCEMENT SCHEDULE, BASE

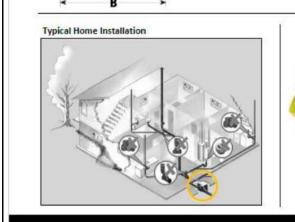
TABLE OF 'W' DIMENSIONS



The access box is a very useful accessory to the 4963 valve. Its dimensions of L: 20" W: 12 %" H: 16" provide access to the owners when valves activate

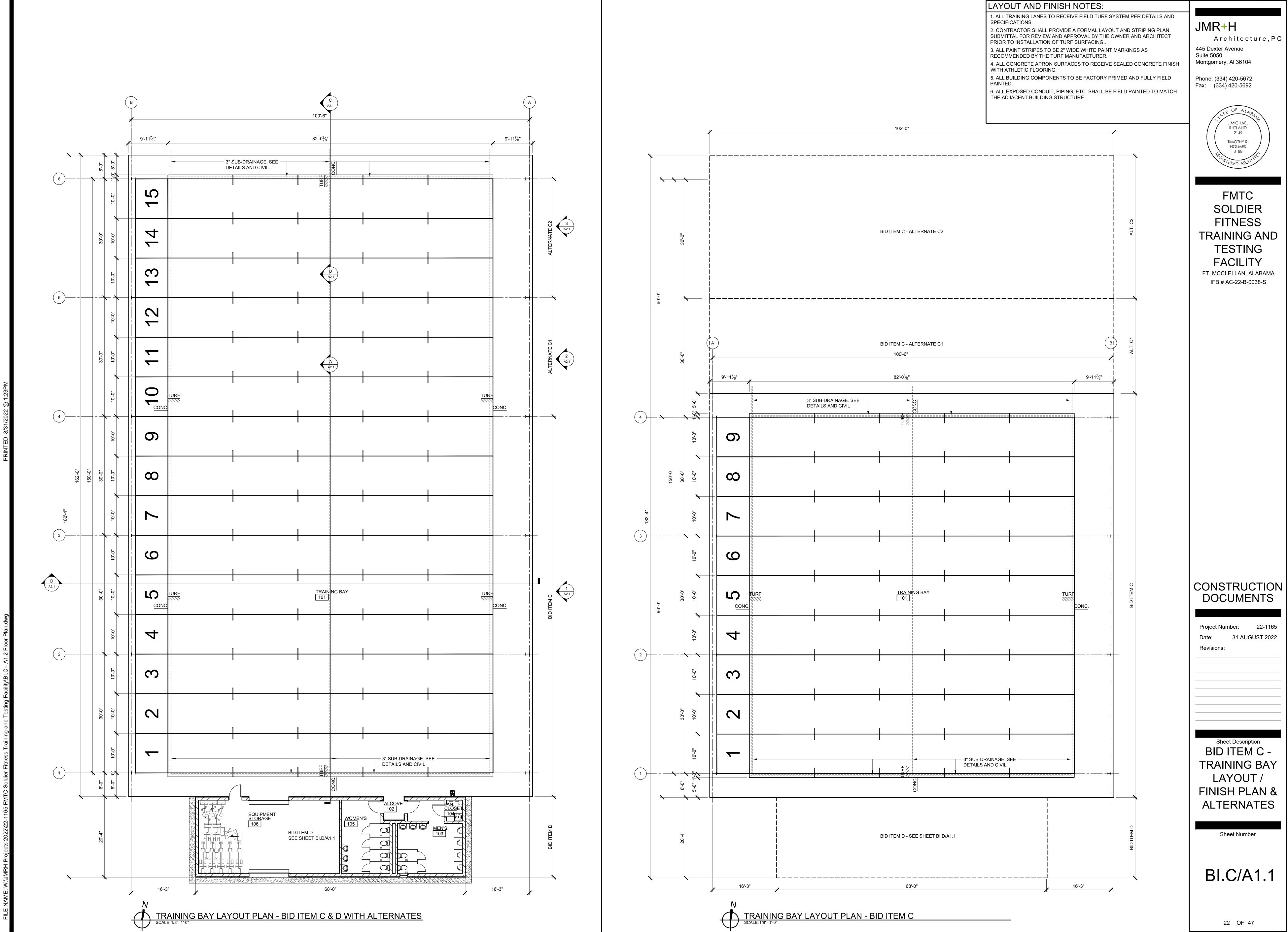








AS REQUIRED BY ALABAMA LAW CALL 2 WORKING DAYS BEFORE EXCAVATION LABAMA LINE LOCATION CENTER, INC

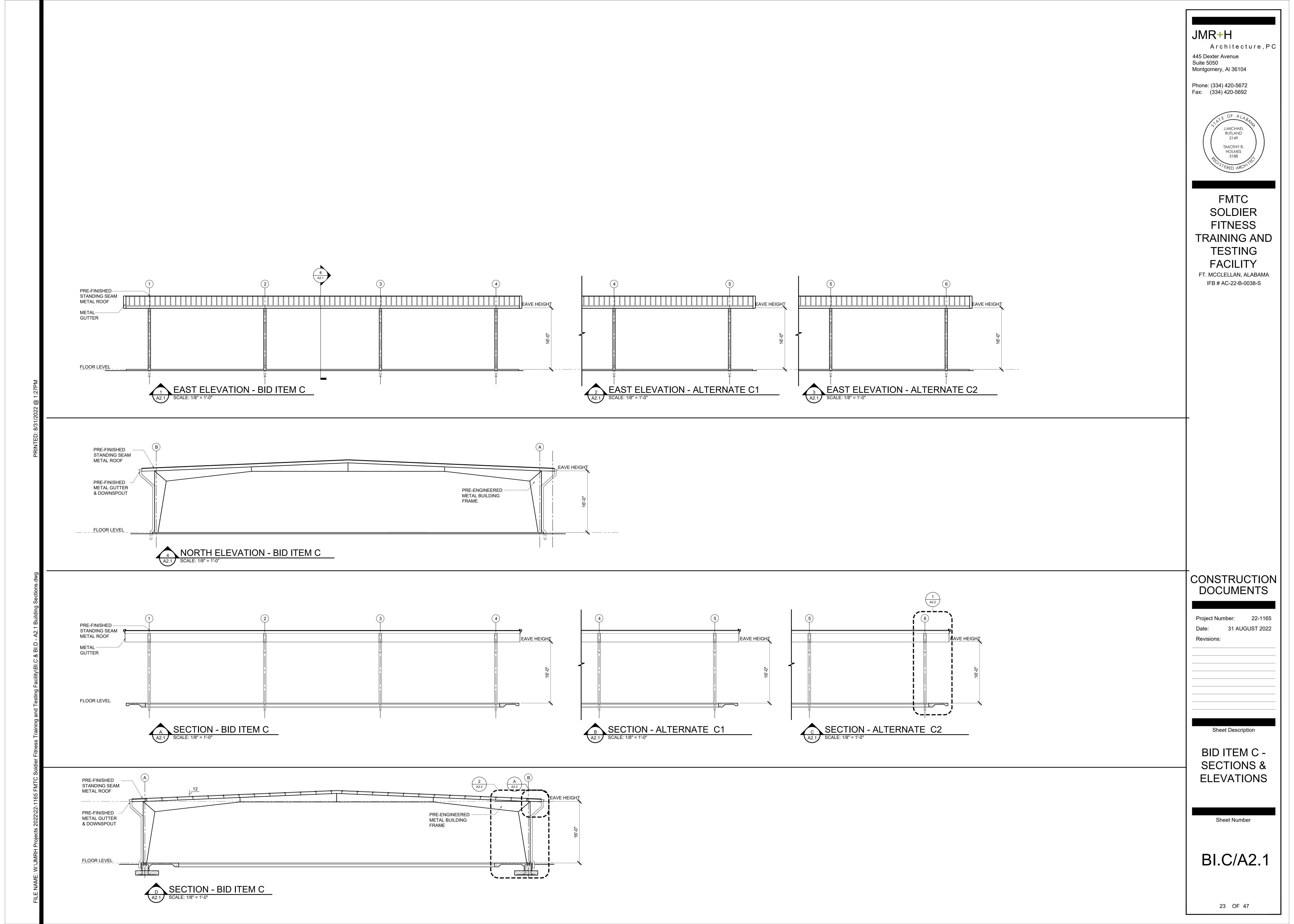


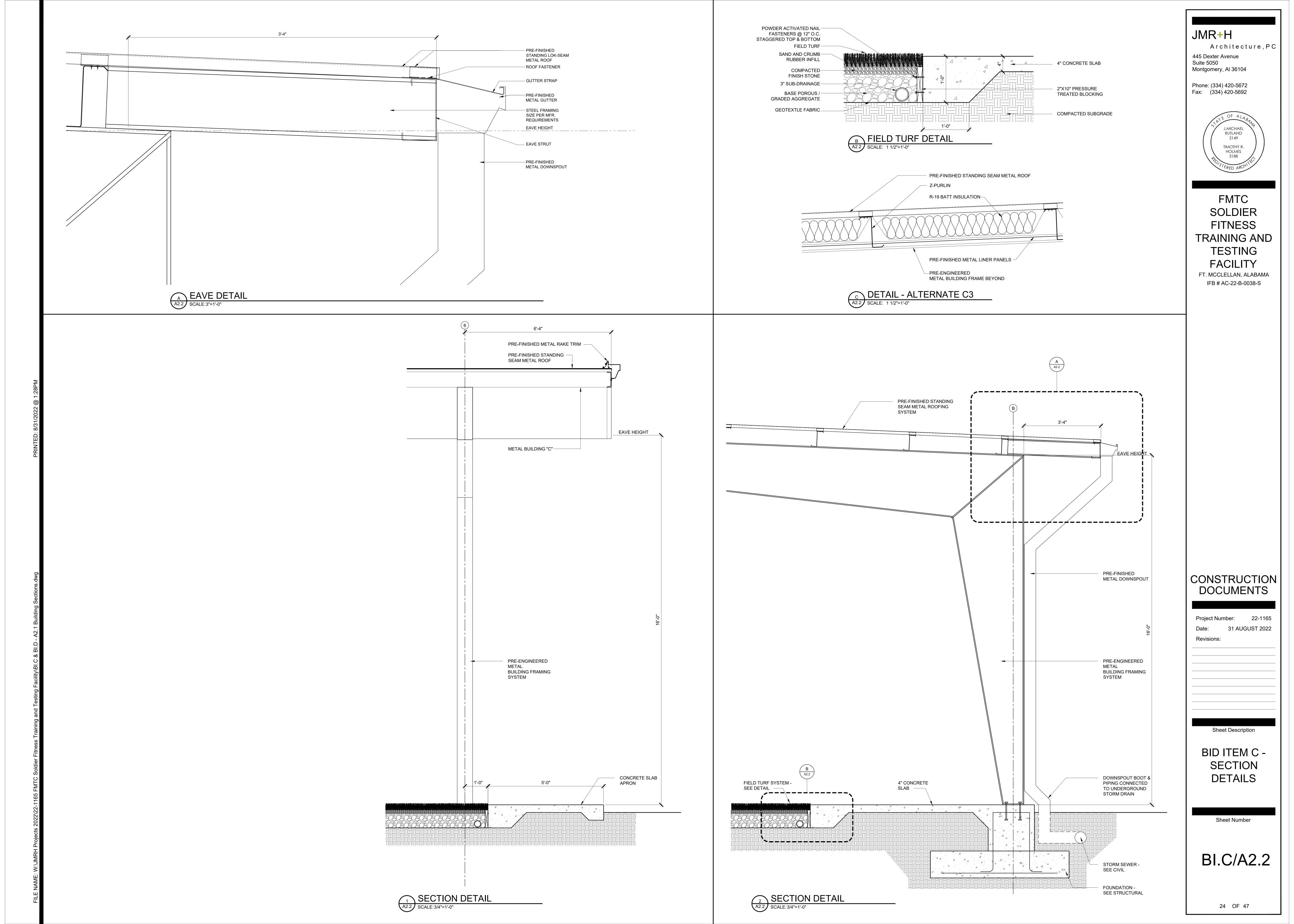
SOLDIER **FITNESS** TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

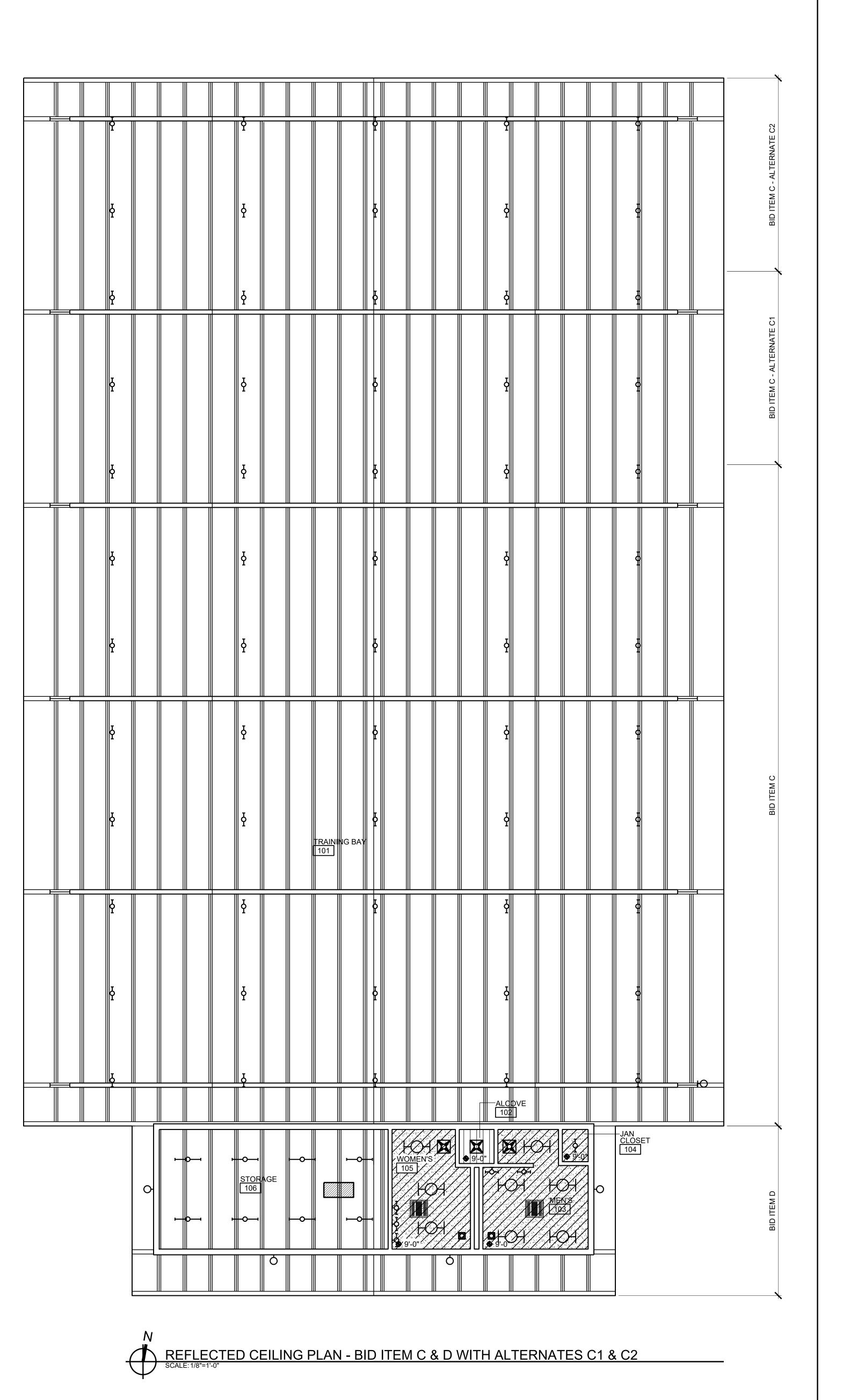
Project Number: 22-1165 31 AUGUST 2022

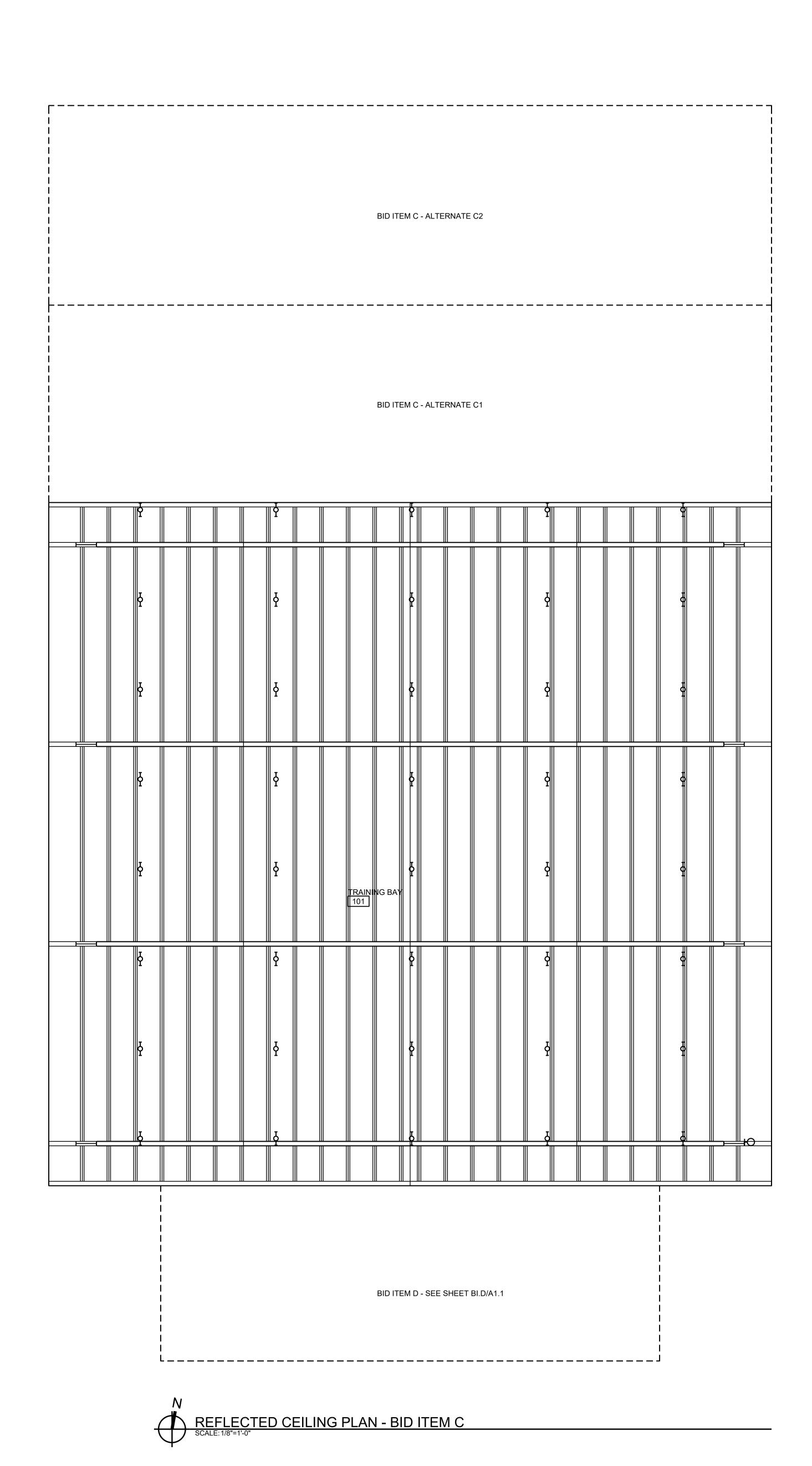
BID ITEM C -TRAINING BAY LAYOUT / FINISH PLAN &

BI.C/A1.1









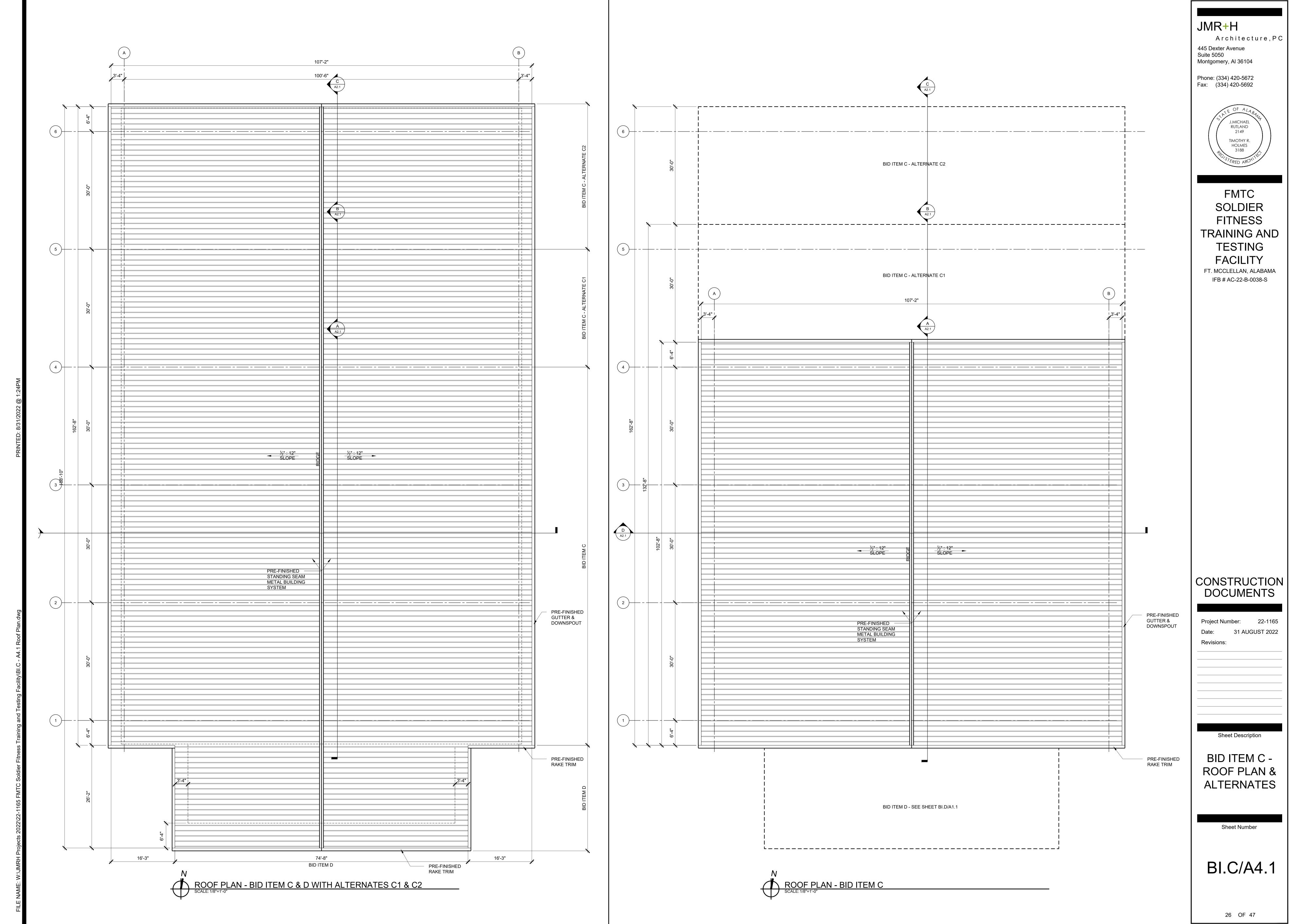
JMR+H Architecture,PC 445 Dexter Avenue Suite 5050 Montgomery, Al 36104 Phone: (334) 420-5672 Fax: (334) 420-5692 **FMTC** SOLDIER **FITNESS** TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S CONSTRUCTION **DOCUMENTS** Date: 31 AUGUST 2022 Sheet Description RCP LEGEND BID ITEM C -REFLECTED **CEILING PLAN** & ALTERNATES DEHUMIDIFIER UNIT HEATER SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE Sheet Number BI.C/A3.1

X

EXPOSED

LINEAR METAL SOFFIT PANEL

MOISTURE RESISTANT GYP BOARD WITH FRP PANEL



- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES' DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE STRUCTURAL
- GN.2 DESIGN CRITERIA:

GN. GENERAL

CODES AND SPECIFICATIONS:

ENGINEER AND ARCHITECT.

- GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2018 EDITION.
- DESIGN LOAD CRITERIA: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7.
- CONCRETE: 3. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. AMERICAN CONCRETE INSTITUTE. ACI 318.
- STRUCTURAL STEEL: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360
- COLD-FORMED STEEL STRUCTURAL MEMBERS: NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE.
- TIMBER: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST & PAPER ASSOCIATION/AMERICAN WOOD COUNCIL.
- PREFABRICATED METAL BUILDING: METAL BUILDING MANUFACTURER ASSOCIATION'S DESIGN PRACTICES MANUAL.
- DESIGN LOADS (PSF)

LIVE LOADS:

- DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
- ROOF (REDUCIBLE)-----20 LIVE LOAD REDUCTIONS HAVE BEEN APPLIED IN ACCORDANCE WITH THE BUILDING CODE, UNLESS NOTED.
- SNOW LOAD: GROUND SNOW LOAD (Pg)-----5.0 WIND LOADS: ULTIMATE DESIGN WIND SPEED, Vult-----108 MPH (3 - SECOND GUST) NOMINAL DESIGN WIND SPEED, Vasd-----84 MPH (3 - SECOND GUST)RISK CATEGORY-----II WIND EXPOSURE CATEGORY------C
 - WALL COMPONENT AND CLADDING WIND PRESSURE-SEE DRAWINGS

INTERNAL PRESSURE COEFFICIENT-----±0.18

- SEISMIC LOADS: SEISMIC IMPORTANCE FACTOR (Ie)-----1.0 MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss-----0,239 \$1-----0.092 SITE CLASS-----D (ASSUMED) SITE COEFFICIENTS: Fa-----1.6 Fv-----2.4 DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
- Sds-----0.255 Sd1-----0.147 SEISMIC DESIGN CATEGORY------C
 - ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION
- GN.4 SPECIAL INSPECTIONS/STRUCTURAL ENGINEER'S SITE VISITS:
 - SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE. REFER TO DRAWINGS.
 - SITE VISITS BY STRUCTURAL ENGINEER:

NOTIFY PRIOR TO THE

- STRUCTURAL ENGINEER'S SITE VISITS ARE FOR VISUAL OBSERVATION OF THE IN-PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION.
- CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT, PER THE SCHEDULE STATED BELOW, WHEN SUCH ITEMS HAVE PROGRESSED TO THE POINT WHERE THEY WILL BE IN PLACE AND READY FOR REVIEW. FAILURE TO NOTIFY MAY REQUIRE REMOVAL OF COMPLETED CONSTRUCTION.

FOLLOWING SCHEDULED TASKS NOTIFICATION

REQUIRED DAYS

- FIRST FOUNDATION POUR-----2 DAYS SHEATHING LOAD BEARING COLD-FORMED STEEL WALLS--2 DAYS
- SITE VISITS BY THE STRUCTURAL ENGINEER'S OFFICE DO NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR

GN.5 SUBMITTALS:

REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES. DETAILS. AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL.

- ELECTRONIC SHOP DRAWING SUBMITTALS: SUBMIT ALL ELECTRONIC SHOP DRAWINGS IN .PDF FORMAT. REVIEWED SHOP DRAWINGS WILL BE RETURNED IN .PDF FORMAT. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED.
- RESUBMITTED SHOP DRAWINGS: RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL CHANGES SINCE THE PREVIOUS SUBMISSION IDENTIFIED BY CLOUDING OR OTHER CLEAR COMMUNICATION. RE-REVIEWED SHOP DRAWINGS WILL ONLY BE REVIEWED FOR IDENTIFIED CHANGES.
- SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED FOR STRUCTURAL ENGINEER'S RECORD
 - CONCRETE MIX DESIGNS
 - CONCRETE REINFORCING STRUCTURAL STEEL (*)
 - COLD-FORMED STEEL (*)
- DESIGN CALCULATIONS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER'S RECORD, DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR THE FOLLOWING ITEMS.
 - DELEGATED STRUCTURAL STEEL TRUSSES/FRAMES COLD-FORMED STEEL
- GN.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS. UNLESS NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT LOADS DO NOT EXCEED THE DESIGN LIVE LOAD.

FD. FOUNDATION

- FD.1 A GEOTECHNICAL ENGINEER, EMPLOYED BY THE OWNER, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE BASIS OF DESIGN BEARING PRESSURE NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL
- FD.2 DESIGN BEARING PRESSURES (PSF):

COLUMN FOOTINGS-----1500

CONTINUOUS WALL FOOTINGS-----1500

- ALL FOUNDATION BEARING SURFACES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE COMPLIANCE WITH PRESSURES NOTED. THE FINAL BEARING ELEVATIONS MAY VARY AS REQUIRED TO PROVIDE PROPER BEARING CAPACITY IN AN APPROVED BEARING STRATUM AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHALL BE PLACED THE SAME DAY AS INSPECTION BY THE GEOTECHNICAL ENGINEER UNLESS EXTENDED TIME IS APPROVED BY THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHALL BE NEATLY EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTING EXCAVATION SHALL BE FILLED WITH CONCRETE TO THE TOP OF FOOTING. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE. WHERE SOFT OR UNSUITABLE BEARING SURFACES ARE ENCOUNTERED. THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH LEAN CONCRETE OR COMPACTED DENSE GRADED CRUSHED STONE AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

PROVIDE 4" OF COMPACTED GRANULAR FILL BENEATH ALL SLABS ON GRADE.

- PROVIDE 10 MIL VAPOR RETARDER BETWEEN BOTTOM OF SLAB AND TOP OF GRANULAR FILL.
- FOUNDATIONS SHALL BE CENTERED ABOUT COLUMN LINES, UNLESS NOTED.

CN. CONCRETE

- CN.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM W/C (WATER/CEMENTITIOUS MATERIALS RATIO), TOTAL AIR CONTENT, SLUMP AND CONCRETE USE:

SLUMP NORMAL WT. 0.50 4-6% 3" TO 5" UNLESS NOTED

- ***DO NOT USE AIR ENTRAINING ADMIXTURES IN INTERIOR CONCRETE SLABS TO RECEIVE A HARD TROWEL FINISH.
- REINFORCING BARS: ASTM A615 GRADE 60.
- REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS IS A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- REINFORCING BAR PLACING ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS.
- DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI SP-066. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE STRUCTURAL ENGINEER.
- SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- CN.8 REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- CN.9 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS2"	' TOP	& 3"	BOTTOM	& S	IDES
GRADE BEAMS2"	' TOP	& 3"	BOTTOM	& S	IDES
DRILLED PIERS		3 '	' CLEAR	0F	TIES
PEDESTALS	1	-1/2	' CLEAR	OF	TIES
SLABS ON WELL GRADED SUBGRADE OR VAPOR BA	∖RRIER	S:			
	3/4"	TOP 8	§ 1 1/2'	' B0	TTOM

CN.14 SLABS ON GRADE: 6" THICK. REINFORCE WITH ASTM C 1116. TYPE III SYNTHETIC MACRO-FIBERS AT A DOSAGE RATE OF 3.5 POUNDS PER CUBIC YARD.

SS. STRUCTURAL STEEL

SS.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

- SS.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL THE LATERAL FORCE RESISTING SYSTEM AND STABILITY OF THE COMPLETED STRUCTURE IS IN PLACE
- SS.3 STRUCTURAL STEEL AND STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE:

W AND WT SHAPES ASTM A992

CAP PLATES, CONNECTION PLATES, AND

ANGLES

ASTM A572, GRADE 50 [OR] ASTM A36 S, M, AND HP SHAPES AND CHANNELS ASTM A36 STIFFENER PLATES, BASE PLATES,

STEEL PIPE ASTM A53, TYPE E OR S, GRADE B

HOLLOW STRUCTURAL SECTIONS ASTM A500, GRADE C WELDED CONNECTIONS E70XX ELECTRODES, MINIMUM

SIZE FILLET WELD 3/16" HEADED ANCHOR RODS ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT, UNLESS INDICATED.

ASTM A108, GRADE 1015 THROUGH SHEAR CONNECTORS 1020, HEADED-STUD TYPE, COLD FINISHED CARBON STEEL; AWS D1.1, TYPE B.

ASTM F3125, GRADE A325 OR A490 BOLTS

ASTM A563 ASTM F436 **WASHERS**

- SS.4 FABRICATE BRACING MEMBERS WITH SUFFICIENT DRAW TO PREVENT SAGGING.
- SS.5 WHERE NO CAMBER IS INDICATED, BEAMS SHOULD BE ERECTED WITH NATURAL CAMBER ORIENTED UPWARD.
- BEAMS SHALL BE EQUALLY SPACED IN BAYS, UNLESS NOTED.
- SS.7 HSS MEMBERS SHALL HAVE A 1/4" CLOSURE PLATE.C
- SS.8 FOUR ANCHOR RODS MINIMUM FOR BASE PLATES UNDER COLUMNS.
- SS.9 GROUT UNDER BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC TYPE. GROUT SHALL HAVE A SPECIFIED DESIGN COMPRESSIVE STRENGTH TWO TIMES THAT OF THE SUPPORTING CONCRETE.
- SS.10 STRUCTURAL STEEL MEMBERS SHALL NOT BE CUT, SPLICED, OR MODIFIED IN THE FIELD UNLESS NOTED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER
- SS.11 STRUCTURAL STEEL NOT EXPOSED TO VIEW SHALL BE PRIMED WITH MANUFACTURER'S STANDARD SHOP PRIMER. STRUCTURAL STEEL EXPOSED TO WEATHER IN ITS FINAL POSITION SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. FOR STRUCTURAL STEEL EXPOSED TO VIEW, REFER TO PROJECT SPECIFICATIONS FOR FINISHED COATING SYSTEM.
- SS.12 SHOP PRIMER OR OTHER COATINGS SHALL NOT BE APPLIED TO THE FACE OF STRUCTURAL STEEL FRAMING SUBJECT TO HEADED STUD WELDING.
- SS.13 DRAIN HOLES SHALL BE PROVIDED IN ALL STEEL AS REQUIRED TO PREVENT WATER ACCUMULATION. HOLES THROUGH STRUCTURAL STEEL MEMBERS SHALL BE GROUND SMOOTH AND NOT EXCEEDING 1/2" DIAMETER. DRAIN HOLES SHALL BE LEFT CLEAN AND UNOBSTRUCTED.

CF. COLD-FORMED STEEL STRUCTURAL MEMBERS

- DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(CFS) AND ACCESSORIES IS THE RESPONSIBILITY OF THE COLD-FORMED STEEL MANUFACTURER. THE CFS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE CONNECTIONS BETWEEN MEMBERS AND THEIR MB.3 CONNECTION TO THE BUILDINGS PRIMARY STRUCTURAL FRAME.
- CF.2 ANY COLD-FORMED STEEL SIZES NOTED ARE FOR PRELIMINARY PRICING INFORMATION ONLY. THE COMPLETE DESIGN OF COLD-FORMED STEEL FRAMING SYSTEM AND PREPARATION OF ERECTION DRAWINGS ARE BY THE ENGINEER RESPONSIBLE FOR THEIR DESIGN.
- CF.3 SUBMIT THE FOLLOWING:
 - PRODUCT DATA: FOR EACH TYPE OF COLD-FORMED STEEL PRODUCT AND ACCESSORY UTILIZED.
 - SHOP DRAWINGS: SHOW LAYOUT, SPACINGS, SIZES, THICKNESS, AND TYPES OF COLD-FORMED STEEL; FABRICATIONS; AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. SHOW REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.
 - CALCULATIONS: COLD-FORMED STEEL DESIGN CALCULATIONS FOR THE FILES OF THE STRUCTURAL ENGINEER AND ARCHITECT. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- CF.4 PROVIDE COLD-FORMED STEEL CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
- A. DESIGN LOADS AS INDICATED IN SECTION GN OF THESE GENERAL NOTES.
 - WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING: EXTERIOR LOAD-BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF 1/360 OF THE WALL HEIGHT.

B. DEFLECTION LIMITS: DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS

- INTERIOR LOAD-BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT UNDER A HORIZONTAL LOAD OF 5 LB F/SQ. FT.
- EXTERIOR NON-LOAD-BEARING FRAMING: HORIZONTAL DEFLECTION OF 1/360 OF THE WALL HEIGHT.
- CF.5 VERTICAL STUDS SHALL BE 100% END BEARING.
- CF.6 PROVIDE WALL BRACING, CONNECTION DETAILS, AND WINDOW HEADERS AS RECOMMENDED BY THE STUD MANUFACTURER FOR LOAD-BEARING STUDS.
- CF.7 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH FILLET WELDS AT 6".

WD. WOOD CONSTRUCTION

WD.1 WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONAL #2 GRADE SOUTHERN PINE.

WD.2 SILL PLATES, SOLE PLATES AND TOP PLATES SHALL BE OF THE SAME SIZE AND SPECIES AS THE STUDS TO WHICH THEY ARE CONNECTED. GRADE AND SPECIES SHALL BE AS SPECIFIED ABOVE.

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- WD.3 ALL LUMBER TO HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF CONSTRUCTION.
- WD.4 ALL PRESSURE TREATED SOUTHERN PINE LUMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1, COMMODITY SPECIFICATION A.
 - A. USE CATEGORIES:

UC2/INTERIOR DRY — SILL PLATES

- UC3B/ABOVE GROUND EXPOSED EXPOSED LUMBER DECKING, RAILINGS, BEAMS, COLUMNS, JOISTS, SHEATHING, ETC.
- UC4A/GROUND CONTACT OR INCLUSION PER U1, SECTION 2, NOTE 1 WOOD FOUNDATIONS, DECKING, BALCONY FRAMING, ETC.
- ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH LUMBER PRESSURE TREATED WITH ACQ SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL OR AS RECOMMENDED BY THE ACQ MANUFACTURER. PRESSURE TREATED LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.
- DIMENSIONED LUMBER FLOOR JOISTS SHALL BE LATERALLY BRACED AT ENDS. POINTS OF BEARING AND MAXIMUM INTERVALS OF 8'-0" BY SOLID BLOCKING, BRIDGING OR TRANSVERSE BEAMS IN ORDER TO PREVENT ROTATION.
- WD.6 ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER. HARDWARE TO BE FASTENED FOR MAXIMUM CAPACITY WHERE MANUFACTURER PROVIDES OPTION.
- MULTI-PLY ENGINEERED LUMBER BEAMS, UNLESS NOTED OTHERWISE, ARE TO BE FASTENED TOGETHER WITH SIMPSON STRONG-TIE SDS SCREWS OR APPROVED EQUAL WITH A MINIMUM OF TWO ROWS OF FASTENERS AT 12 INCHES (STAGGERED) AND SPACED 3 INCHES FROM THE TOP AND BOTTOM OF BEAMS.
- WD.8 REFER TO IBC TABLE 2304.10.1 FOR FASTENING REQUIREMENTS NOT SPECIFICALLY STATED IN DRAWINGS.
- WD.9 NAILS, WIRE BRADS, STAPLES: SHALL CONFORM TO ASTM F1667. ALL NAILS SPECIFIED IN DOCUMENTS ARE COMMON NAILS, UNLESS NOTED.
- WD.10 POWER DRIVEN FASTENERS: SHALL CONFORM TO NER-272.
- WD.11 WOOD SCREWS: SHALL CONFORM TO ASME B18.6.1.

WD.12 LAG BOLTS: SHALL CONFORM TO ASME B18.2.1.

- WD.13 THE NUMBER OF PLIES IN THE BUILT-UP COLUMN SHALL MATCH OR EXCEED THE NUMBER OF PLIES OF THE BEAM IT SUPPORTS IF SPECIFIC SIZE IS NOT GIVEN IN CONSTRUCTION DOCUMENTS.
- WD.14 FREE-STANDING COLUMNS/POSTS/STUDPACKS SHALL BE BRACED AT FOUNDATION WITH SIMPSON POST BASE CB, CBS, LCB, PB, OR PBS. THE GENERAL CONTRACTOR SHALL COORDINATE TYPE AND SIZE OF HARDWARE BASED ON SIZE OF WOOD POST/STUDPACK IN STRUCTURAL PLANS.

MB. MANUFACTURED METAL BUILDING SYSTEM

- METAL BUILDING MANUFACTURER SHALL BE ACCREDITED BY INTERNATIONAL ACCREDITATION SERVICES' IAS ACCREDITATION FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS (AC472). METAL BUILDING MANUFACTURER SHALL PROVIDE IAS ACCREDITATION DOCUMENTATION TO THE ARCHITECT.
- MB.2 METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH "THE METAL BUILDING MANUFACTURERS ASSOCIATION'S DESIGN PRACTICES MANUAL."

THE BUILDING STRUCTURAL FRAME (INCLUDING LATERAL LOADS) DOWN TO THE

THE METAL BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR COMPLETE DESIGN OF

- FOUNDATION. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. METAL BUILDING DESIGN CALCULATIONS' COVER SHEET AND ALL METAL BUILDING
- SHOP DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY THE MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- THE FOUNDATION DRAWINGS HAVE BEEN PREPARED BASED ON ASSUMED LOADS. THE CONTRACTOR SHALL SUBMIT FINAL SIGNED AND SEALED DRAWINGS AND DESIGN REACTIONS FOR THE BUILDING FRAME FOR THE PURPOSE OF CONFIRMING THE DESIGN.
- HEADED ANCHOR ROD SIZE, LOCATION, AND PROJECTION ABOVE TOP OF SLAB ARE TO BE PROVIDED BY METAL BUILDING MANUFACTURER. FOR MINIMUM ANCHOR ROD EMBEDMENT LENGTH, SEE TYPICAL DETAILS. HEADED ANCHOR RODS, INCLUDING INSTALLATION TOLERANCES, HOLE SIZES IN BASE PLATES, AND PLATE WASHERS, ARE TO BE COORDINATED BETWEEN METAL BUILDING SUPPLIER AND GENERAL CONTRACTOR INSTALLING ANCHOR RODS.
- BEFORE FOOTING INSTALLATION, GENERAL CONTRACTOR SHALL COORDINATE THE HEADED ANCHOR ROD EMBEDMENT LENGTHS. THE FOOTING DEPTH SHALL BE THE SCHEDULED DEPTH OR THE HEADED ANCHOR ROD EMBEDMENT LENGTH PLUS 3 INCHES. WHICHEVER IS GREATER.
- METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE ANCHOR ROD DESIGN. FOUNDATION DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE FOUNDATION CONCRETE AND SHALL SPECIFY MINIMUM ANCHOR ROD EMBEDMENT LENGTHS REQUIRED TO SATISFY THE FOUNDATION DESIGN.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING, SHORING, GUYING, ETC. AND OTHER METHODS TO PREVENT EXCESSIVE STRESSES DURING CONSTRUCTION. THESE PROVISIONS ARE TO REMAIN IN PLACE UNTIL SUFFICIENT PERMANENT MEMBERS ARE CONSTRUCTED TO ENSURE THE SAFETY OF THE STRUCTURE.
- MB.10 ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.
- MB.11 METAL BUILDING MANUFACTURER SHALL COORDINATE COLUMN LAYOUT WITH THE CONTRACT DRAWINGS. ANY COLUMN LAYOUT CHANGES MUST BE SUBMITTED FOR REVIEW OF FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS.
- MB.12 GRAVITY DESIGN LOADS:
 - A. LIVE LOAD: 20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY)
 - DEAD LOAD: WEIGHT OF STRUCTURE
 - COLLATERAL LOAD: INCLUDE ADDITIONAL DEAD LOADS OTHER THAN THE WEIGHT OF THE STRUCTURE FOR PERMANENT ITEMS SUCH AS SPRINKLERS, MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, CEILING, LIGHTS, DUCTS, KITCHEN HOODS, OPERABLE WALLS, BASKETBALL GOALS. ETC. PROVIDE MINIMUM COLLATERAL LOADING OF 5 PSF.

JMR+H Architecture, PC

Phone: (334) 420-5672

Fax: (334) 420-5692

445 Dexter Avenue Suite 5050 P.O. Box 1706 Montgomery, Al 36104



FMTC SOLDIER TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION **DOCUMENTS**

Project Number: 22-1165 31 AUGUST 2022 Revisions:

Sheet Description

GENERAL NOTES

Sheet Number

BI.C-S1.1

GENERAL NOTES

Special Inspection General Notes

GIRTS:

- SUPPORTING METAL PANELS
 - HORIZONTAL DEFLECTION: SPAN/90
- SUPPORTING MASONRY
- A. HORIZONTAL DEFLECTION: SPAN/240 BUT NOT GREATER THAN 1号".

OVERALL BUILDING DRIFT:

- FOR BUILDINGS WITH SENSITIVE INTERIOR FINISHES (INCLUDING SHEETROCK AND MASONRY WALLS) OR RIGIDLY ATTACHED MECHANICAL SYSTEMS: H/500 (3/8" MAX)
- FOR BUILDINGS WITH MASONRY INTERIOR OR EXTERIOR WALLS: H/200
- H IS THE BUILDING EAVE HEIGHT.
- DEFLECTION AND DRIFT LIMITS ARE TO BE CONSIDERED WITH A 10 YEAR WIND OCCURRENCE.
- DEFLECTION AND DRIFT DUE TO SEISMIC LOADS SHOULD BE LIMITED IN ACCORDANCE WITH THE BUILDING CODE.
- MB.14 EXCEPT AS APPROVED, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.
- MB.15 STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM RESISTANCE FOR LATERAL WIND LOADS.
- MB.16 METAL BUILDING INSPECTOR OR ENGINEER SHALL VISIT THE PROJECT SITE AFTER THE COMPLETION OF THE BUILDING.
- MB.17 ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE SUBJECT TO APPROVAL BY THE REGISTERED DESIGN PROFESSIONAL. ALL DEVIATIONS SHALL BE EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. REGISTERED DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.

PA. POST INSTALLED ANCHORS

- PA.1 POST INSTALLED ANCHORS SHALL COMPLY WITH ACI-318 CHAPTER 17.
- PA.2 ACCEPTABLE MANUFACTURERS SHALL INCLUDE BUT ARE NOT LIMITED TO HILTI, INC. AND SIMPSON STRONG-TIE COMPANY, INC. AND DEWALT ANCHORS.
- PA.3 CARE SHALL BE TAKEN IN PLACING POST INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.
- PA.4 HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR ALONG WITH PREPARED DOCUMENTATION DEMONSTRATING THAT THE PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
- PA.5 THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND RECOMMENDATIONS.
- PA.6 ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS.
- PA.7 CONCRETE ANCHORS:
 - 1. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI-355.2 AND ICC-ES AC193.
 - 2. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI355.4 AND ICC-ES AC308.

SPECIAL INSPECTIONS

- SI.1 ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE INTERNATIONAL BUILDING CODE AND ITS REFERENCED SPECIFICATIONS.
- SI.2 THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER OR THE OWNER'S AGENT AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK.
- SI.3 THE SPECIAL INSPECTOR SHALL BE QUALIFIED PER THE INTERNATIONAL BUILDING CODE AND SHALL BE EDUCATED IN THE TASKS REQUIRED TO CONDUCT, SUPERVISE, AND EVALUATE THE INSPECTIONS. THE SPECIAL INSPECTOR MUST ALSO BE OBJECTIVE, COMPETENT, AND HAVE ACCESS TO THE APPROPRIATE TESTING EQUIPMENT WHICH SHALL BE MAINTAINED AND PERIODICALLY CALIBRATED. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
- SI.4 SPECIAL INSPECTION AGENTS:
 - 1. APPROVED TESTING AGENCY
 - 2. GEOTECHNICAL ENGINEER OF RECORD:
 - EOR: ENGINEER OF RECORD:
 - LBYD INC. 1100 SOUTH COLLEGE STREET, SUITE 201 AUBURN, AL 36832
- SI.5 THE SPECIAL INSPECTIONS SHALL BE PERFORMED IN ADDITION TO ANY OBSERVATIONS PERFORMED BY THE ENGINEER OF RECORD AND ANY INSPECTIONS PERFORMED BY THE BUILDING OFFICIAL.
- SI.6 THE SPECIAL INSPECTOR SHALL MAINTAIN RECORDS AND PROVIDE THE REQUIRED DOCUMENTATION AS PRESCRIBED IN THE INTERNATIONAL BUILDING CODE, INCLUDING THE SUBMITTAL OF REPORTS TO THE BUILDING OFFICIAL AND THE DESIGNER OF RECORD.
- SI.7 THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE SPECIAL INSPECTOR TO ALLOW FOR SPECIAL INSPECTIONS.
- CONSTRUCTION WHICH REQUIRES SPECIAL INSPECTIONS SHALL BE MAINTAINED IN SUCH A STATE AS TO ALLOW ACCESS FOR THE SPECIAL INSPECTOR UNTIL THE REQUIRED INSPECTIONS OR TESTS HAVE BEEN COMPLETED.
- SI.9 ANY DEVIATIONS FOUND DURING THE SPECIAL INSPECTION PROCESS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE DESIGNER OF RECORD. ALL DEVIATIONS MUST BE ADDRESSED PRIOR TO COMPLETION OF THE WORK.
- SI.10 INSPECTION FREQUENCY:
 - A. CONTINUOUS SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS
 - B. PERIODIC SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
 - C. OBSERVE OBSERVE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
 - D. PERFORM PERFORM TASKS FOR EACH JOINT, MEMBER, AND CONNECTION.

Concrete

NO.	INSPECTION TASK	FREQUENCY	REFERENCE STANDARD	AGENT
1.00	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH 20, 25.2, 25.3, 26.5.1-26.5.3; IBC 1908.4	ATA
2.00	REINFORCING BAR WELDING:			ATA
2.01	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706.	PERIODIC	AWS D1.4	ATA
2.02	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	PERIODIC	ACI 318: 26.5.4	ATA
2.03	INSPECT ALL OTHER WELDS.	CONTINUOUS		ATA
3.00	INSPECT ANCHORS CAST IN CONCRETE.	PERIODIC	ACI 318: 17.8.2	ATA
4.00	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			ATA
4.01	INSPECT ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS	ACI 318: 17.8.2.4	ATA
4.02	INSPECT MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.01.	PERIODIC	ACI 318: 17.8.2	ATA
5.00	VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH 19, 26.4.3, 26.4.4; IBC 1904.1, 1904.2, 1908.2, 1908.3	ATA
6.00	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. DETERMINE UNIT WEIGHT OF LIGHTWEIGHT CONCRETE.	CONTINUOUS	ASTM C 172; ASTM C 31; ACI 318:26.4.5, 26.12; IBC 1908.10	ATA
7.00	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.4.5; IBC 1908.6, 1908.7, 1908.8	ATA
8.00	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.4.7-26.4.9; IBC 1908.9	ATA
9.00	INSPECT PRESTRESSED CONCRETE FOR:			ATA
9.01	APPLICATION OF PRESTRESSING FORCES.	CONTINUOUS	ACI 318: 26.9.2.1	ATA
9.02	GROUTING OF BONDED PRESTRESSING TENDONS.	CONTINUOUS	ACI 318: 26.9.2.3	ATA
10.00	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH 26.8	ATA
11.00	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.10.2	ATA
12.00	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.10.1(B)	ATA
13.00	ISOLATED CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (1)	ATA
14.00	CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF LIGHT-FRAME CONSTRUCTION OR THOSE THAT ARE DESIGNED IN ACCORDANCE WITH IBC 2015 TABLE 1809.7 ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (2)	ATA
15.00	SLABS ON GRADE ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (3)	ATA
16.00	CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH IBC 2015 TABLE 1807.1.6.2 ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (4)	ATA



NO.	Cold-Formed F	FREQUENCY	REFERENCE FOR CRITERIA	AGE
1.00	PRIOR TO ASSEMBLY OR INSTALLATION:	FREQUENCY	AISI S240 TABLE D6.5-1	AGE
1.01	VERIFY COMPLIANCE OF STRUCTURAL MEMBERS FOR PRODUCT	PERFORM	AISI S240 SECTION A5.5	ATA
1.02	IDENTIFICATION VERIFY COMPLIANCE OF CONNECTORS	PERFORM		ATA
1.03	DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL	PERFORM		ATA
	STRUCTURAL MEMBERS AND CONNECTORS		1101 00 10 7101 7 00 7	
2.00 2.01	AFTER ASSEMBLY OR INSTALLATION: VERIFY COMPLIANCE OF COLD-FORMED STEEL STRUCTURAL	PERFORM	AISI S240 TABLE D6.5-2 AISI S240 SECTION A5.5	ATA
2.01	MEMBERS FOR PRODUCT IDENTIFICATION	PLIXI OIXIVI	AISI 3240 SECTION AS.S	A17
2.02	VERIFY COMPLIANCE OF CONNECTORS	PERFORM		AT
2.03	DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND CONNECTORS	PERFORM		AT.
3.00	PRIOR TO WELDING:		AISI S240 TABLE D6.6-1	
3.01	WELDING PROCEDURE SPECIFICATIONS AVAILABLE	OBSERVE		AT
3.02	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	OBSERVE		AT
3.03	AVAILABLE MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE		AT
3.04	CHECK WELDING EQUIPMENT	OBSERVE		AT
4.00	DURING WELDING:		AISI S240 TABLE D6.6-2	
4.01	USE OF QUALIFIED WELDERS	OBSERVE		AT
4.02 4.03	CONTROL AND HANDLING OF WELDING CONSUMABLES ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE,	OBSERVE OBSERVE		TA TA
4.03	TEMPERATURE)	OBSERVE		
4.04	WELDING PROCEDURE SPECIFICATIONS FOLLOWED	OBSERVE		АТ
5.00	AFTER WELDING:		AISI S240 TABLE D6.6-3	
5.01 5.02	VERIFY COMPLIANCE OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM PERFORM		TA TA
5.02	VERIFY REPAIR ACTIVITIES	PERFORM		A
5.04	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED CONNECTIONS	PERFORM		Α٦
6.00	PRIOR TO MECHANICAL FASTENING:		AISI S240 TABLE D6.7-1	
6.01	MECHANICAL FASTENER MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	OBSERVE		AT
6.02	PROPER TOOLS AVAILABLE FOR MECHANICAL FASTENER	OBSERVE		A7
	INSTALLATION			
6.03 7.00	PROPER STORAGE FOR MECHANICAL FASTENERS DURING MECHANICAL FASTENING:	OBSERVE	AISI S240 TABLE D6.7-2	AT
7.00 7.01	MECHANICAL FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE	AISI 5240 TABLE D0.7-2	A7
7.02	MECHANICAL FASTENERS ARE INSTALLED IN ACCORDANCE WITH	OBSERVE		AT
	MANUFACTURER'S INSTRUCTIONS			
8.00 8.01	AFTER MECHANICAL FASTENING: VERIFY COMPLIANCE OF MECHANICAL FASTENERS	PERFORM	AISI S240 TABLE D6.7-3	A7
8.02	REPAIR ACTIVITIES	PERFORM		A7
8.03	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICALLY	PERFORM		Α٦
0.00	FASTENED CONNECTIONS		A101 0040 TADI E D0 0 4	
9.00	AFTER INSTALLATION OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION:		AISI S240 TABLE D6.8-1	
9.01	VERIFY COMPLIANCE OF COLD-FORMED STEEL LIGHT-FRAME	PERFORM		Α٦
9.02	CONSTRUCTION DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL	PERFORM		AT
9.02	LIGHT-FRAME CONSTRUCTION	PERFORIVI		
0.00	PRIOR TO INSTALLATION OF COLD-FORMED STEEL LATERAL FORCE		AISI S240 TABLE D6.9-1	
0.01	RESISTING SYSTEMS: VERIFY COMPLIANCE OF SHEAR WALL AND DIAPHRAGM SHEATHING,	PERFORM		A7
0.01	DIAGONAL STRAP BRACING, AND HOLD-DOWNS	I LIVI OIVIII		
0.02	DOCUMENT ACCEPTANCE OR REJECTION OF SHEAR WALL AND	PERFORM		Α٦
	DIAPHRAGM SHEATHING, DIAGONAL STRAP BRACING, AND HOLD-DOWNS			
1.00	PRIOR TO WELDING OF COLD-FORMED STEEL LATERAL FORCE		AISI S240 TABLE D6.9-2	
14.01	RESISTING SYSTEMS:	000000		
1.01	WELDER IDENTIFICATION SYSTEM FIT-UP OF WELDS (ALIGNMENT, GAPS, CONDITION OF STEEL	OBSERVE OBSERVE		A ^T
1.∪∠	SURFACES)	ODGENVÉ		
2.00	PRIOR TO MECHANICAL FASTENING OF COLD-FORMED STEEL		AISI S240 TABLE D6.9-3	
2.01	LATERAL FORCE RESISTING SYSTEMS: PROPER FASTENERS SELECTED	OBSERVE		A
2.01	PROPER FASTENERS SELECTED PROPER INSTALLATION PROCEDURE SELECTED	OBSERVE		A
2.03	CONNECTING ELEMENTS MEET APPLICABLE REQUIREMENTS	OBSERVE		A ⁻
3.00	DURING MECHANICAL FASTENING OF COLD-FORMED STEEL LATERAL		AISI S240 TABLE D6.9-4	
3.01	FORCE RESISTING SYSTEMS: FOR SCREW CONNECTIONS, JOINT BROUGHT TIGHT TO AVOID GAPS	OBSERVE		A
. J. J	BETWEEN PLIES			
3.02	FOR SCREW CONNECTIONS, TOOL ADJUSTED TO AVOID STRIPPED	OBSERVE		Α٦
3.03	AND OVERDRIVEN FASTENERS FOR POST-INSTALLED CONNECTIONS TO CONCRETE, INSTALLATION	PERFORM		 A1
0.00	IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	i Liti Oltivi		
4.00	AFTER INSTALLATION OF COLD-FORMED STEEL LATERAL FORCE		AISI S240 TABLE D6.9-5	
4.01	RESISTING SYSTEMS: VERIFY COMPLIANCE OF COLD-FORMED STEEL LATERAL FORCE	PERFORM		A7
- - ∪ I	RESISTING SYSTEM INSTALLATION	I LINI UNIVI		
4.02	DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF	PERFORM		A
5.00	COLD-FORMED STEEL LATERAL FORCE RESISTING SYSTEM COLD-FORMED STEEL TRUSSES WITH A CLEAR SPAN OF 60 FEET OR		AISI S240 IBC 1705.2.4	
J.00	GREATER:		AISI 3240 IDG 1703.2.4	
5.01	TEMPORARY RESTRAINTS/BRACING INSTALLED IN ACCORDANCE	PERIODIC		Α٦
	WITH APPROVED TRUSS SUBMITTAL PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINTS/BRACING	PERIODIC		A7
5.02	PERMANENT	-		. Al

Metal Building Systems							
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	AGENT			
1.00	VERIFY TEMPORARY BRACING OF BUILDING IS IN PLACE DURING ERECTION.	PERIODIC		ATA			
2.00	VERIFY PLACEMENT OF ALL GIRTS AND PURLINS ACCORDING TO THE ERECTION DRAWINGS.	PERIODIC		ATA			
3.00	VERIFY THAT SECONDARY FLANGE BRACING HAS BEEN INSTALLED ACCORDING TO THE ERECTION DRAWINGS.	PERIODIC		ATA			
4.00	VERIFY THAT ALL X-BRACING AND PORTAL FRAMES HAVE BEEN INSTALLED PER THE ERECTION DRAWINGS.	PERIODIC		ATA			
5.00	VERIFY THAT NO MEMBERS HAVE BEEN ALTERED OR CUT WITHOUT THE APPROVAL OF THE BUILDING MANUFACTURER.	PERIODIC		ATA			
6.00	VERIFY THAT ALL GIRT AND PURLIN BRIDGING IS IN PLACE PER THE ERECTION DRAWINGS.	PERIODIC		ATA			
7.00	VERIFY THAT ALL WALL AND ROOF OPENINGS ARE PER THE BUILDING ERECTION DRAWINGS.	PERIODIC		ATA			

Civil and Structural Engineers
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JMR+H

Architecture, PC 445 Dexter Avenue Suite 5050 P.O. Box 1706 Montgomery, Al 36104

Phone: (334) 420-5672

Fax: (334) 420-5692



FMTC SOLDIER TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION **DOCUMENTS**

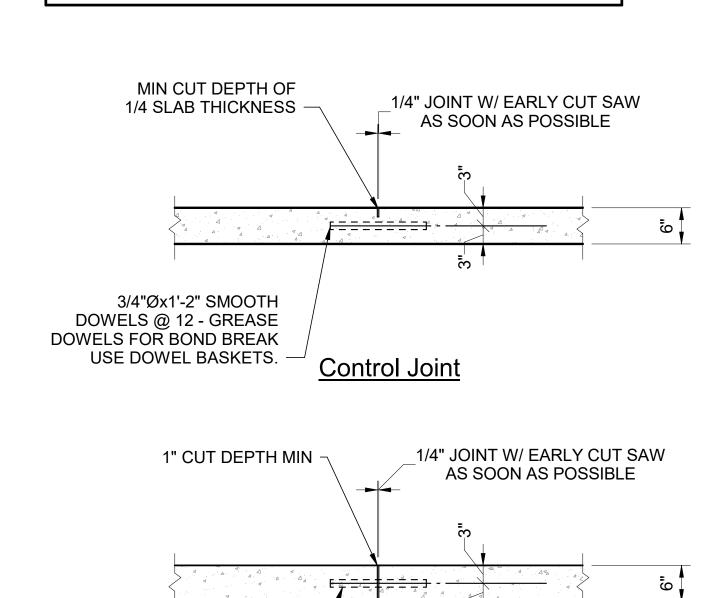
Project Number: 22-1165 Date: 31 AUGUST 2022 Revisions:

Sheet Description

GENERAL | NOTES - CONTD.

BI.C-S1.2

Components and Cladding Wind Pressures (Vult per ASCE 7-16) MAX POSITIVE **EFFECTIVE** MAX NEGATIVE WIND AREA PRESSURE PRESSURE ZONE (PSF) (SQ FT) (PSF) -17.7 7.9 7.4 -17.7 ROOF 20 INTERIOR 6.7 -17.7 50 ZONE >100 6.2 -17.7 -30.8 7.9 ZONE 1 20 7.4 -28.8 ROOF **INTERMEDIATE** 50 6.7 -26.1 ZONE >100 6.2 -24.1 7.9 -40.7 ZONE 2 7.4 -38.1 20 **ROOF EDGE** 6.7 -34.6 50 >100 6.2 -34.6 7.9 -55.4 ZONE 3 20 7.4 -50.2 ROOF CORNER 6.7 -43.3 ZONE >100 -38.1 6.2 -19.2 10 ZONE 4 20 16.9 -18.4 WALL 15.9 -17.4 50 INTERIOR 100 -16.6 ZONE >500 13.3 -14.8 -23.6 16.9 -22.1 20 ZONE 5 WALL EDGE 15.9 -20.0 100 -18.4 -14.8 WIDTH OF EDGE STRIP, a = 6' EAVE HEIGHT, h: SEE ROOF FRAMING PLAN INTERNAL PRESSURE COEFFICIENT = ±0.18 RELIABLE DEAD LOAD FOR UPLIFT = 5 PSF



Construction Joint

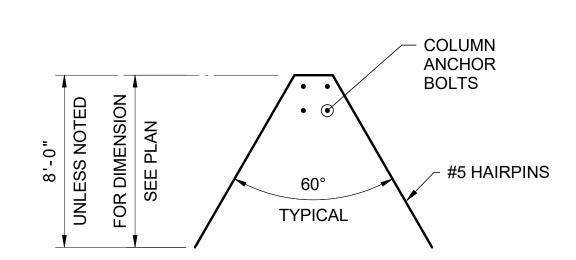
3/4"Øx1'-2" SMOOTH DOWELS @ 12 - GREASE

DOWELS FOR BOND BREAK
USE DOWEL BASKETS.

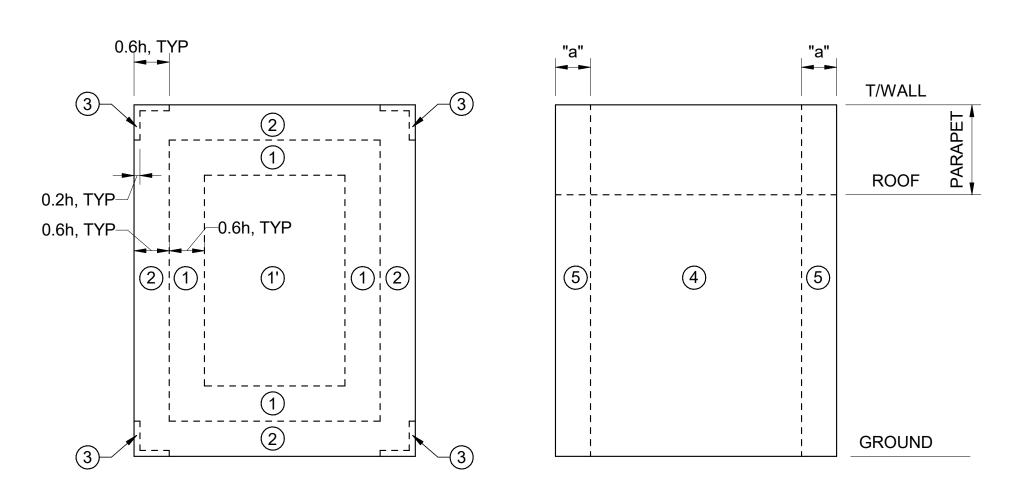
1. CONTROL JOINT FILLER SEMI-RIGID EPOXY. 2. SAWCUT TO TAKE PLACE WITHIN 4-12 HOURS OF FINISHING CONCRETE: 4 HOURS IN HOT WEATHER, 12 HOURS IN COLD WEATHER.

6" Slab Control Joint Detail

JOINT TYPE IS OPTIONAL



Column Hairpin Detail



Components and Cladding Wind Pressures

Roof Plan

FOR TREAD AND RISER DETAILS SEE ARCH.

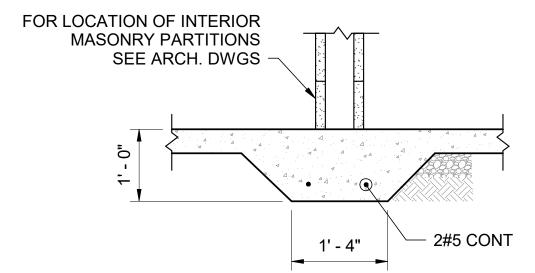
TREADS

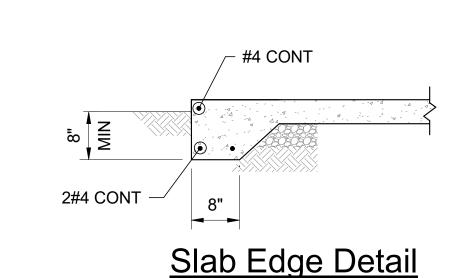
2#5 CONT

Stair on Grade Detail

- 1#3 EACH NOSING

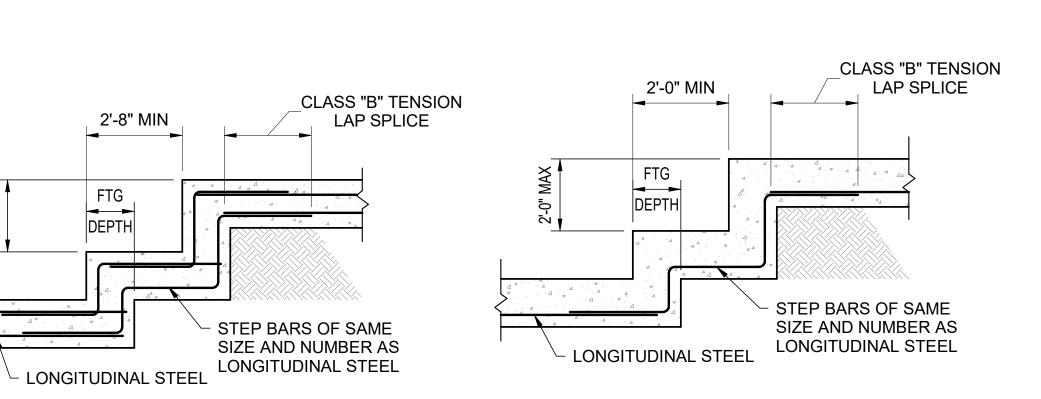
Wall Elevation







on Grade Detail



Embedment Lengths					
BOLT DIA	MIN EMBEDMENT				
5/8 & 3/4"	9"				
1"	12"				
1 1/4"	15"				
1 1/2"	18"				

Anchor Rod

ANCHOR RODS TO BE F1554 HEADED.

Footing Step Detail

TYPICAL FOOTING REINF - SEE SECTIONS —	2'-0" MIN ADDITIONAL 2"-0" MIN SEE SECTIONS TYPICAL WALL FOOTING - SEE SECTIONS TOF SEE PLAN	
COMPACTED FILL OR UNDISTURBED EARTH AS REQD —		
CAST IRON SLEEVE AT EA UTILITY LINE LOCATION CAST INTO LEAN CONCRETE, RGER IN DIAMETER THAN LINE PASSING HROUGH. SLEEVES MUST BE ORIENTED PERPENDICULAR TO FOOTING LENGTH —	4" MIN 4" MIN 6" MIN WHERE MULTIPLE SLEEVES OCCUR LEAN CONCRETE FILL AS SHOWN AND 1'-0" MIN BEYOND BOTH SIDES OF FOOTING BEARING LOCATION (INSTALL AND CURE PRIOR TO FOOTING PLACEMENT)	

DEPTH

Footing Step Detail

STEP BARS OF SAME SIZE AND NUMBER AS

Typical Detail for Utilities Passing Below Wall Footings

- 1. CONTRACTOR'S OPTION TO STEP FOOTINGS BELOW UTILITIES IN LIEU OF THIS DETAIL.
- 2. COORDINATE UTILITY LOCATIONS W/ CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL
- 3. UTILITIES SHALL NOT PASS BELOW COLUMN FOOTINGS.

Tension Lap Splice Lengths							
		f _C = 40	000				
BAR SIZE	TOP E	BARS	OTHER	BARS			
	Α	В	Α	В			
#3	19"	24"	15"	19"			
#4	25"	32"	19"	25"			
#5	31"	40"	24"	31"			
#6	37"	48"	29"	37"			
#7	54"	70"	42"	54"			
#8	62"	80"	48"	62"			
#9	70"	91"	54"	70"			
#10	79"	102"	61"	79"			
#11	87"	113"	67"	87"			

- 1. THIS TABLE CONTAINS DEVELOPMENT AND SPLICE LENGTHS FOR NORMAL-WEIGHT CONCRETE SLABS ONLY.
- 2. ALL DEVELOPMENT/SPLICE LENGTHS ARE IN INCHES (IN.).
- 3. Ld = TENSION DEVELOPMENT LENGTH, PER CHAPTER 12 OF ACI 318. 4. TABLE SHALL APPLY WHEN ACI 318 MINIMUM COVER IS PROVIDED (THE GREATER OF 0.75" AND db) AND THE
- CENTER-TO-CENTER BAR SPACING IS > 3*db. 5. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

LBYD, Inc.
Civil and Structural Engineers
1100 South College Street Suite 201
Auburn, AL 36832
Phone (334) 734-0403
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P.O. Box 1706

Montgomery, Al 36104

Phone: (334) 420-5672

Fax: (334) 420-5692

Architecture, PC

FMTC SOLDIER TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

Project Number: 22-1165 31 AUGUST 2022 Revisions:

Sheet Description

TYPICAL DETAILS

BI.C-S1.3

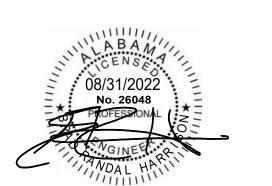


LBYD, Inc.
Civil and Structural Engineers
1100 South College Street

Architecture, PC

445 Dexter Avenue Suite 5050 P.O. Box 1706 Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



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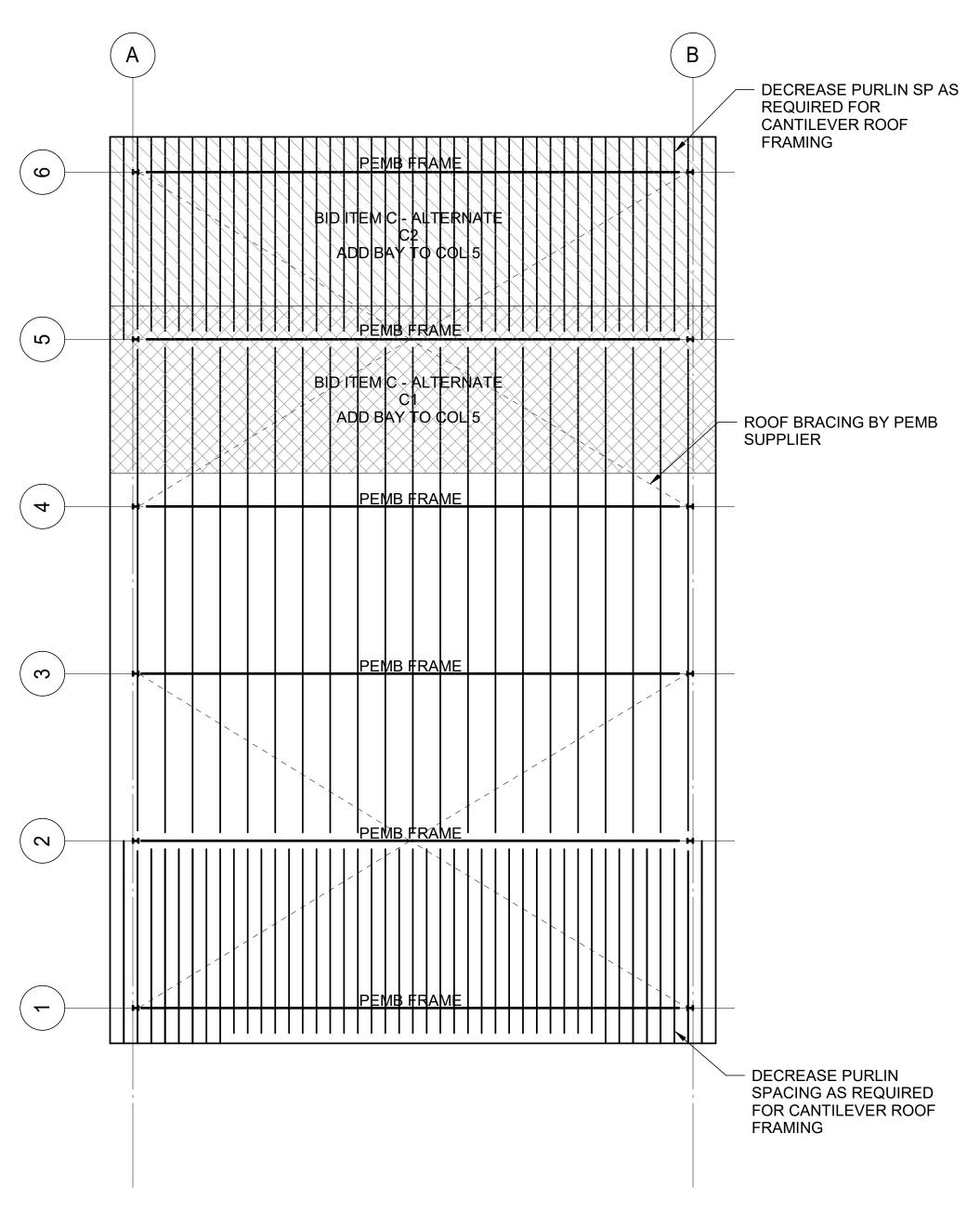
Sheet Description

BID ITEM C -**FITNESS** TRAINING PLANS

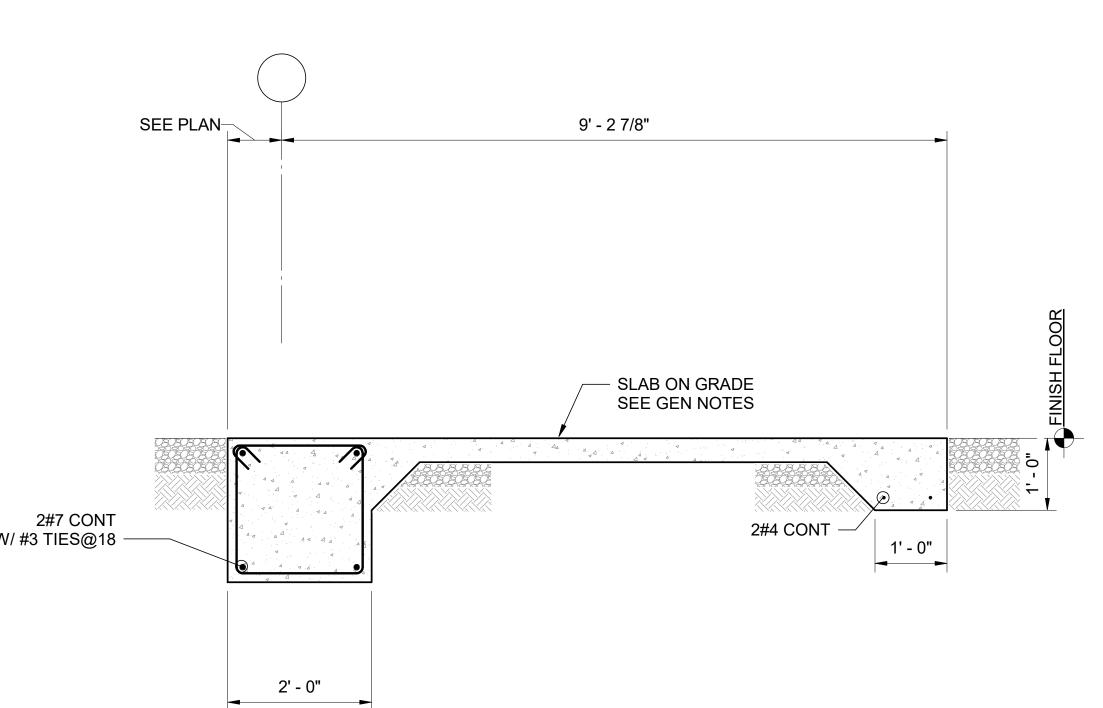
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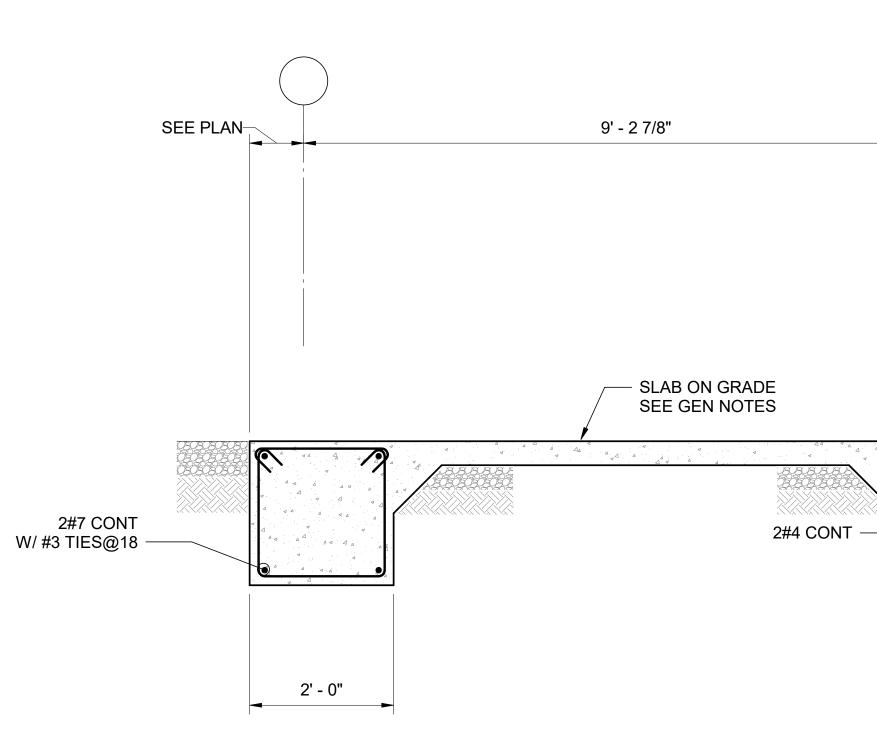
BI.C-S2.1

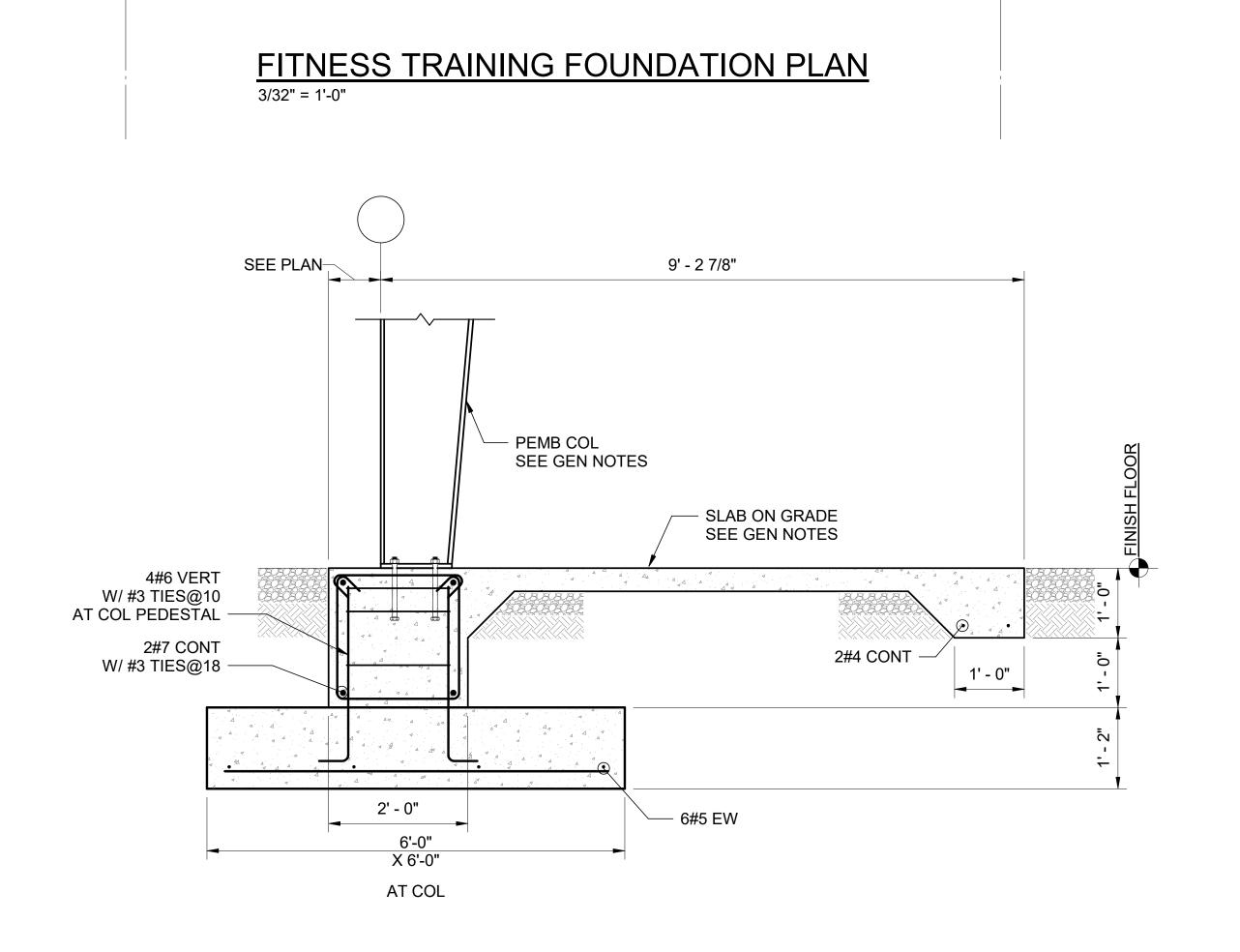
30 OF 47



FITNESS TRAINING ROOF PLAN
1/16" = 1'-0"







100' - 6"

BID ITEM C - ALTERNATE

ADD BAY AND SLAB TO

BID ITEM C-ALTERNATE

ADD BAY AND SLAB TO

____+_is+__--_-

ENDWALL SLAB NOT

ENDWALL SLAB NOT

IS ACCEPTED

REQUIRED IF ALTERNATE C1

REQUIRED IF ALTERNATE C2 IS ACCEPTED

 $\left(\mathbf{v} \right)$

 $\left(\mathbf{w} \right)$

(~)

HAIRPIN - SEE TYP DETAILS

1 Section 3/4" = 1'-0"

BI.C-S2.1 Section
3/4" = 1'-0"

3 Section 3/4" = 1'-0"

SEE PLAN

SLAB ON GRADESEE GEN NOTES

ELECTRICAL SYMBOLS

CEILING OUTLET - SURFACE LED FIXTURE. HATCHING INDICATES FIXTURE WITH EMERGENCY BATTERY PACK. CEILING OUTLET - SURFACE LED FIXTURE. WALL OUTLET - LED BRACKET TYPE WALL OUTLET - LED BRACKET TYPE. WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, HUBBELL #5362 - GREY. ("WP" DENOTES METAL EXTRA DUTY WEATHERPROOF COVER) WALL OUTLET - GFCI DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, HUBBELL #GF-5362-GY - GREY WITH #S-26 PLATE. ("WP" DENOTES METAL EXTRA DUTY WEATHERPROOF COVER) WALL OUTLET - DUPLEX OUTLET, MOUNTED 6" ABOVE COUNTER. WALL OUTLET - GFCI DUPLEX OUTLET, MOUNTED 6" ABOVE COUNTER. FLOOR OUTLET - CONDUIT STUB UP. CEILING OUTLET - JUNCTION BOX. WALL OUTLET - JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.

SWITCH OUTLET/TIMER - TIME SWITCH WITH ON/OFF BUTTON. HUBBELL #DT2000W OR EQUAL.

SWITCH OUTLET - AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 - GREY. LIGHTING PANEL - SEE SPECIFICATIONS AND SCHEDULE. POWER PANELS - SEE SPECIFICATIONS AND SCHEDULE. BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.

BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.

HOMERUN TO PANELBOARD - ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) - 1/2" CONDUIT. 3 # 12 & 1 # 12(G) - 3/4" CONDUIT. 4 # 12 & 1 # 12(G) - 3/4" CONDUIT.

SWITCH OUTLET — AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 — GREY.("N" DENOTES NARROW)

EMPTY CONDUIT -3/4". BRANCH CIRCUIT EXPOSED.

 $\binom{40}{4}$ 40 AMPS (TYPICAL). MOTOR SHOWN 5hp (TYPICAL) OR

EXHAUST FAN MOTOR - FRACTIONAL HORSEPOWER.

MAGNETIC MOTOR STARTER.

NON-FUSED DISCONNECT SWITCH. (RT - RAINTIGHT). FUSED DISCONNECT SWITCH. (RT - RAINTIGHT).

EXISTING ELECTRICAL EQUIPMENT TO REMAIN UNLESS OTHERWISE NOTED. EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED, UNLESS OTHERWISE NOTED. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND NOT REPLACED

ABOVE FINISHED FLOOR. A.F.G. ABOVE FINISHED GRADE. BELOW FINISHED CEILING. VER. VERIFY LOCATION. N.E.C. NATIONAL ELECTRICAL CODE.

> HUMIDISTAT - WALL OUTLET 48" AFF OR AS DIRECTED BY MECHANICAL DRAWINGS. RUN EMPTY 3/4" CONDUIT TO UNIT.

DEMOLITION NOTES

- DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.
- 2. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION.
- 3. REMOVE ELECTRICAL EQUIPMENT NOT REQUIRED TO REMAIN IN SERVICE. RECONNECT EXISTING CIRCUITS TO OTHER SOURCES OF SUPPLY.
- 4. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- 5. REMOVE EXPOSED ABANDONED CONDUIT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES.
- 6. DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.
- 7. DISCONNECT AND REMOVE EXISTING LUMINAIRES WHERE NEW FIXTURES ARE SHOWN TO BE INSTALLED. REMOVE BRACKETS, STEMS, HANGERS, AND OTHER ACCESSORIES.
- 8. WHEN A CIRCUIT IS INTERRUPTED BY REMOVAL OF A DEVICE OR FIXTURE FROM THAT CIRCUIT, INSTALL WIRE, CONDUIT, AND ACCESSORIES TO RESTORE SERVICE TO REMAINING DEVICES AND
- MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.
- 10. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- 11. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL OF ALL MATERIALS DEMOLISHED DURING DEMOLITION. COORDINATE TURNING OVER REMOVED MATERIAL WITH THE OWNER. IF THE OWNER DOES NOT WANT THE DEMOLISHED MATERIAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL.

LIGHTING FIXTURE SCHEDULE

			LAMPS	MOUNTING HEIGHT	TYPE MOUNTING	RECESS	
MARK	MANUFACTURER	CATALOG NO.	NO. WATTS TYPE	MOONTING HEIGHT	THE MOONTING	DEPTH	REMARKS
A12	LITHONIA	2BLTX4-40L-ADP-120-EZ1-LP850-GMF	FURNISHED WITH FIXTURE	CEILING	RECESSED	2-3/8"	SEE NOTE 1
A13	LITHONIA	2BLTX4-40L-ADP-120-EZ1-LP850-GMF-EL14L	FURNISHED WITH FIXTURE	CEILING	RECESSED	2-3/8"	SEE NOTE 1
A18	LITHONIA	IBG-15000LM-HEF-AFL-WD-120-GZ10-50K-80CRI-SF-DWH	FURNISHED WITH FIXTURE	+15' A.F.F.	PENDANT		SEE NOTE 1
A19	LITHONIA	IBG-15000LM-HEF-AFL-WD-120-GZ10-50K-80CRI-E10WCP-SF-DWH	FURNISHED WITH FIXTURE	+15' A.F.F.	PENDANT		SEE NOTE 1
D12	LITHONIA	ZL1D-L48-7000LM-FST-120-50K-80CRI-WH	FURNISHED WITH FIXTURE	CEILING	SURFACE		SEE NOTE 1
D13	LITHONIA	ZL1D-L48-7000LM-FST-120-50K-80CRI-E7W-WH	FURNISHED WITH FIXTURE	CEILING	SURFACE		SEE NOTE 1
D14	LITHONIA	ZL1D-L24-2500LM-FST-120-50K-80CRI-WH	FURNISHED WITH FIXTURE	CEILING	SURFACE		SEE NOTE 1
F5	ECLIPSE	AS-XL-HR-PGC-(LED 20W)-5K-UNV-WH-FUS	FURNISHED WITH FIXTURE	ABOVE MIRROR	SURFACE		SEE NOTES 1 & 2
F6	ECLIPSE	575-2'-SPL-(LED 20W)-5K-80CRI-UNV-WH-FUS-EL8W	FURNISHED WITH FIXTURE	+8' A.F.F.	SURFACE/CORNER		SEE NOTES 1 & 2
L4	LITHONIA	WST LED-P3-50K-VF-120-PE-SF-DDBXD	FURNISHED WITH FIXTURE	+13' A.F.F.	SURFACE		SEE NOTES 1 & 2
L5	LITHONIA	WST LED-P3-50K-VF-120-SF-DDBXD	FURNISHED WITH FIXTURE	+13' A.F.F.	SURFACE		SEE NOTES 1 & 2
NOTEC:					•	· ·	

1. EQUAL FIXTURE BY COLUMBIA AND DAYBRITE WILL BE ACCEPTABLE

2. VERIFY FINISH WITH ARCHITECT.

PANELBOARD SCHEDULE

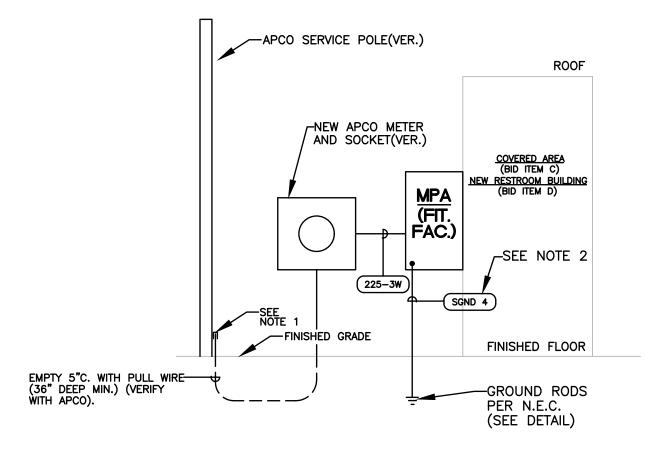
MARK TY	TYPE	TYPE		MAINS			BRANCHES		LUG	TYPE	TYPE MINIMUM AIC	REMARKS	
MATIK	11176	TYPE	AMPS	SERVICE	1 POLE	2 POLE	3 POLE	SPARES	SPACES	LOCATION	MOUNTING	RATING	NEMANNO
MPA(FIT. FAC.)(BID ITEM C & D)	NQOD	МВ	225	120/240V 1ø, 3W	5-20 2-20* 8-20**	3-30**		6-20/1	15-1PS	воттом	SURFACE	VERIFY WITH APCO	SEE NOTES 1, 2 & 4

1. PANEL SHALL BE FULLY RATED AND NEMA 3R RATED . PANEL SHALL BE SERVICE ENTRANCE RATED.

- . PANEL SHALL BE FULLY RATED AND HINGED FRONT TRIM. 4. PANEL SHALL BE EQUIPPED WITH BUILT—IN SURGE PROTECTION, CAPABLE OF WITHSTANDING A TRANSIENT SURGE OF 160,000 AMPS.
- * INDICATES BREAKER TO BE INSTALLED IF BID ITEM C, ALTERNATE C2 IS TAKEN. ** INDICATES BREAKER TO BE INSTALLED IF BID ITEM D IS TAKEN.

FEEDER/GROUND CONDUCTOR SCHEDULE

AMPS	1 Ø WIRE TAG	SINGLE PHASE FEEDER				
225 W/O GND	225-3W	3 #4/0 IN 2" C.				
	MISCELLANEOUS TAGS					
	SGND 4	1 #2 CU IN 3/4" C.				



ELECTRICAL SINGLE LINE DIAGRAM

NOTES:
1. STUB UP AT BASE OF POLE FOR 120/240V, 1ø, 3W APCO UNDERGROUND SERVICE FROM

OVERHEAD TRANSFORMER. 2. SEE SCHEDULE ON THIS SHEET FOR WIRE SIZE. (TYP)

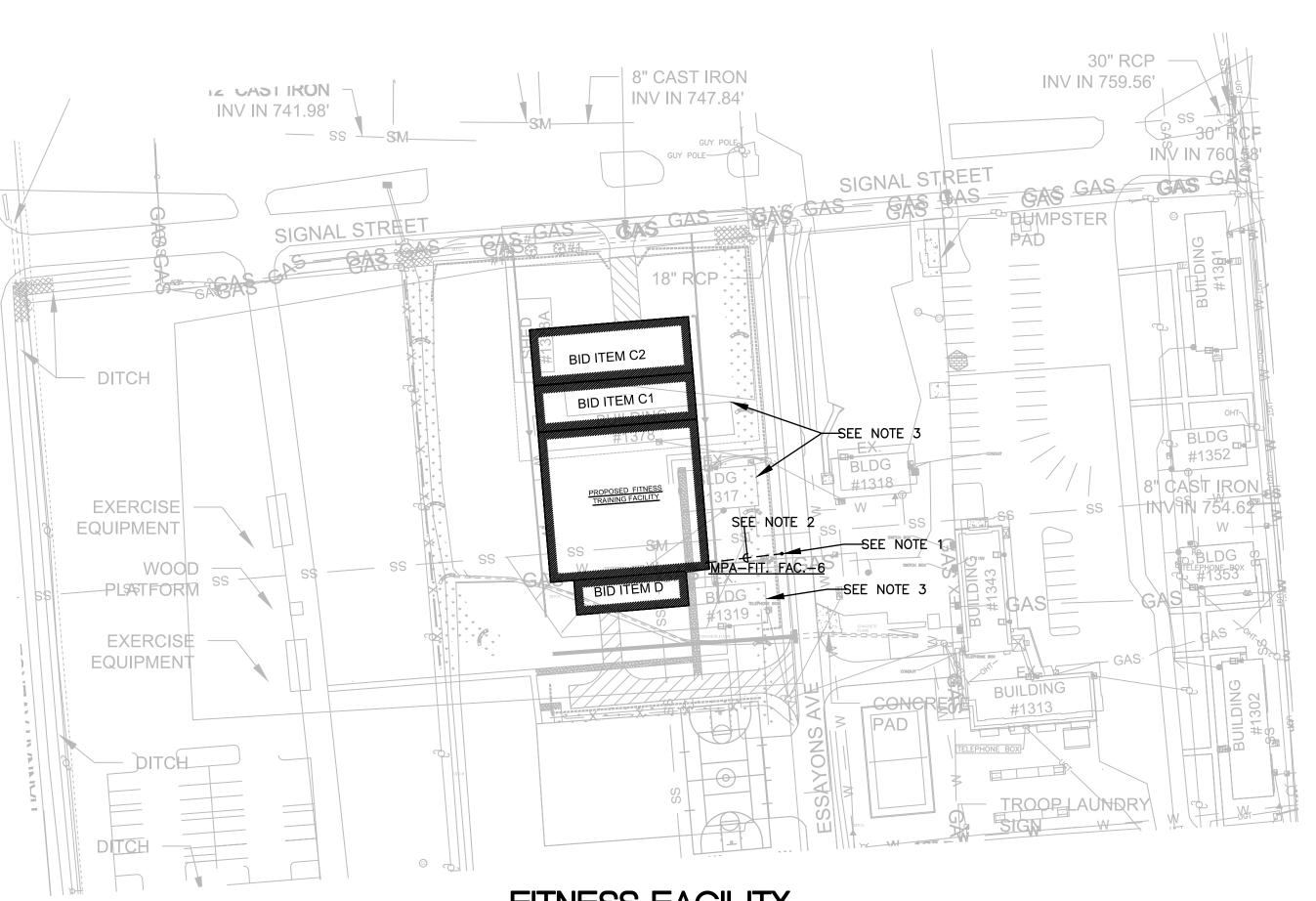
-UNISTRUT AT EACH END OF FIXTURES. UNISTRUT SHALL BE 2"-3" WIDER THAN THE FIXTURE TO ALLOW ALL-THREAD TO BE ADJUSTED TO GET \FIXTURE LEVEL. -BEAM CLAMPS AND UNISTRUT AS NECESSARY. ALL-THREAD ROD AT ALL FOUR CORNERS. TYPICAL A18 & A19 FIXTURE. FLOOR LEVEL

TRAINING BAY 101 FIXTURE INSTALLATION DETAIL

NOTES:

1. CONTRACTOR SHALL INSTALL UNISTRUT AS REQUIRED TO BE ABLE TO ENSURE

THE BURLING AT ALL FOUR CORNERS. LIGHT FIXTURES ARE SUPPORTED FROM THE PURLINS AT ALL FOUR CORNERS.



FITNESS FACILITY ELECTRICAL SITE PLAN

SCALE: 1" = 60'-0"NOTES:
1. APCO SERVICE POLE.(VER.)

APPROXIMATE ROUTING OF UNDERGROUND SECONDARY.(VER.)

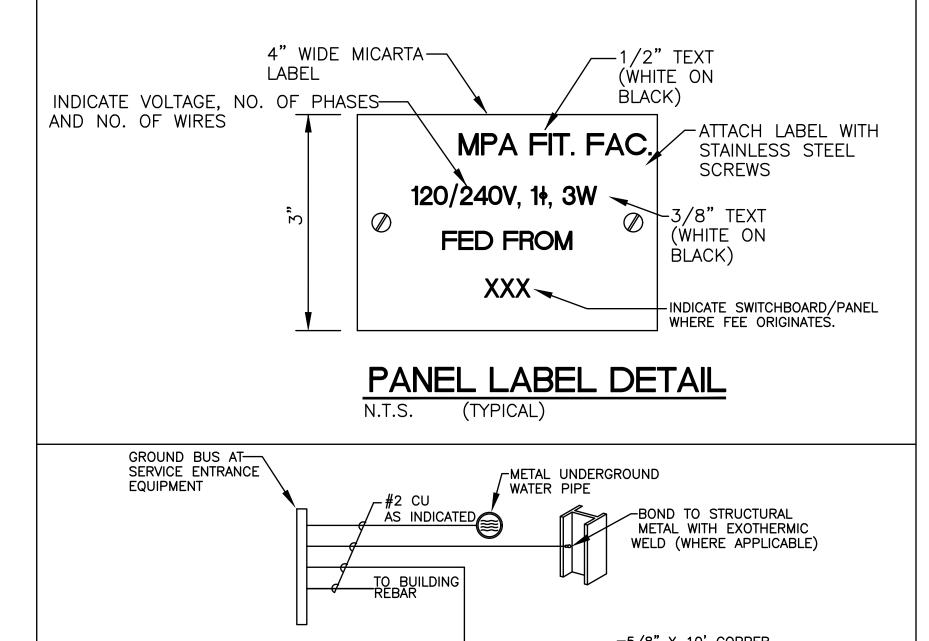
CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRIC SERVICE CONDUCTORS AND ELECOMMUNICATIONS FEEDS AS NECESSARY FOR BUILDING TO BE DEMOLISHED. COORDINATE REMOVAL OF ANY EXISTING EQUIPMENT WITH THE OWNER TO ENSURE ANY EQUIPMENT THAT CAN BE SALVAGED IS TURNED OVER TO THE OWNER. THIS DEMOLITION WORK SHALL BE PERFORMED UNDER BID ITEM A

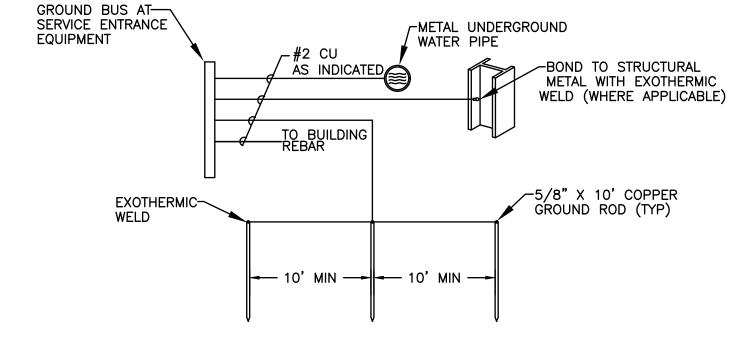
GENERAL NOTES

- 1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
- 2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD
- 3. CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
- 4. THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
- 5. CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
- 6. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT OR ENGINEER.
- 7. THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT, OUTLETS, ETC.. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION AND WITH THE OTHER TRADES.
- 8. MOUNTING HEIGHTS OF ALL WALL OUTLETS SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED: ...4'–0" WALL SWITCHES.....

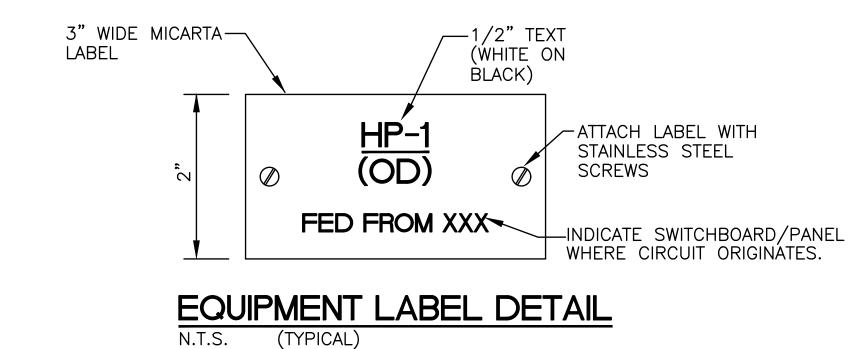
RECEPTACLES.. TELEPHONE OUTLET. DATA OUTLET.. CATV OUTLET...

- 9. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT HEIGHT OF ALL COUNTER TOPS AND BACKSPLASHES ON CASEWORK SHOP DRAWINGS AND CHANGE SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED SO THAT BOTTOM OF OUTLET BOX IS 2" ABOVE TOP OF BACKSPLASH OR IF NO BACKSPLASH IS USED, 4" ABOVE COUNTERTOP.
- 10. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE FIREPROOF SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO ANOTHER.
- 11. VERIFY ALL DOOR SWINGS WITH THE ARCHITECT BEFORE ROUGHING IN LIGHT SWITCHES. 12. CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT MOUNTING TYPE AND SPACE REQUIRED PRIOR TO ROUGH-IN.
- 13. BRANCH CIRCUITS SHALL BE #12 AWG AND 1/2" CONDUIT MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER. SEE SPECIFICATIONS FOR INSULATION TYPE.
- 14. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
- 15. VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
- 16. SUPPORT OF ALL LIGHTING FIXTURES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. SEE SPECIFICATIONS FOR SUPPORTING METHODS.
- 17. COORDINATE SERVICES WITH POWER AND COMMUNICATION COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT A VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
- 18. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED CONDUCTORS. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. SIZE GROUND CONDUCTORS PER
- 19. ALL UTILITY FEES ASSOCIATED WITH THIS PROJECT SHALL BE INCLUDED IN BID. IF THESE FEES CANNOT BE OBTAINED FROM THE UTILITY PRIOR TO BID, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY.
- 20. CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL EQUIPMENT WITH ARC-FLASH WARNING LABELS PER NEC 110.16.
- 21. VERIFY EXACT LOCATION AND EXACT MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT AND ELECTRICAL CONNECTIONS WITH THE ARCHITECT AND THE OWNER PRIOR TO ROUGH-IN.
- 22. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF ELECTRICAL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING AND ORDERING EQUIPMENT.





GROUNDING DETAIL



NOTES:

1. INSTALL LABEL ON ALL DISCONNECTING MEANS FOR EACH PIECE OF EQUIPMENT.

McCARTER ELECTRICAL ENGINEERING CONSULTANTS 878 AVALON LANE Anniston, al 36207 PHONE: (256) 240-7335 M.E. JOB #2232

CONSTRUCTION **DOCUMENTS**

JMR+H

445 Dexter Avenue

Montgomery, Al 36104

Phone: (334) 420-5672

Fax: (334) 420-5692

.MICHAEL

RUTLAND

2149

TIMOTHY

HOLMES

3188

FMTC

SOLDIER

FITNESS

TRAINING AND

TESTING

FACILITY

FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

Suite 5050

Architecture, PC

Project Number: 22-1165 Date: 23 AUGUST 2022

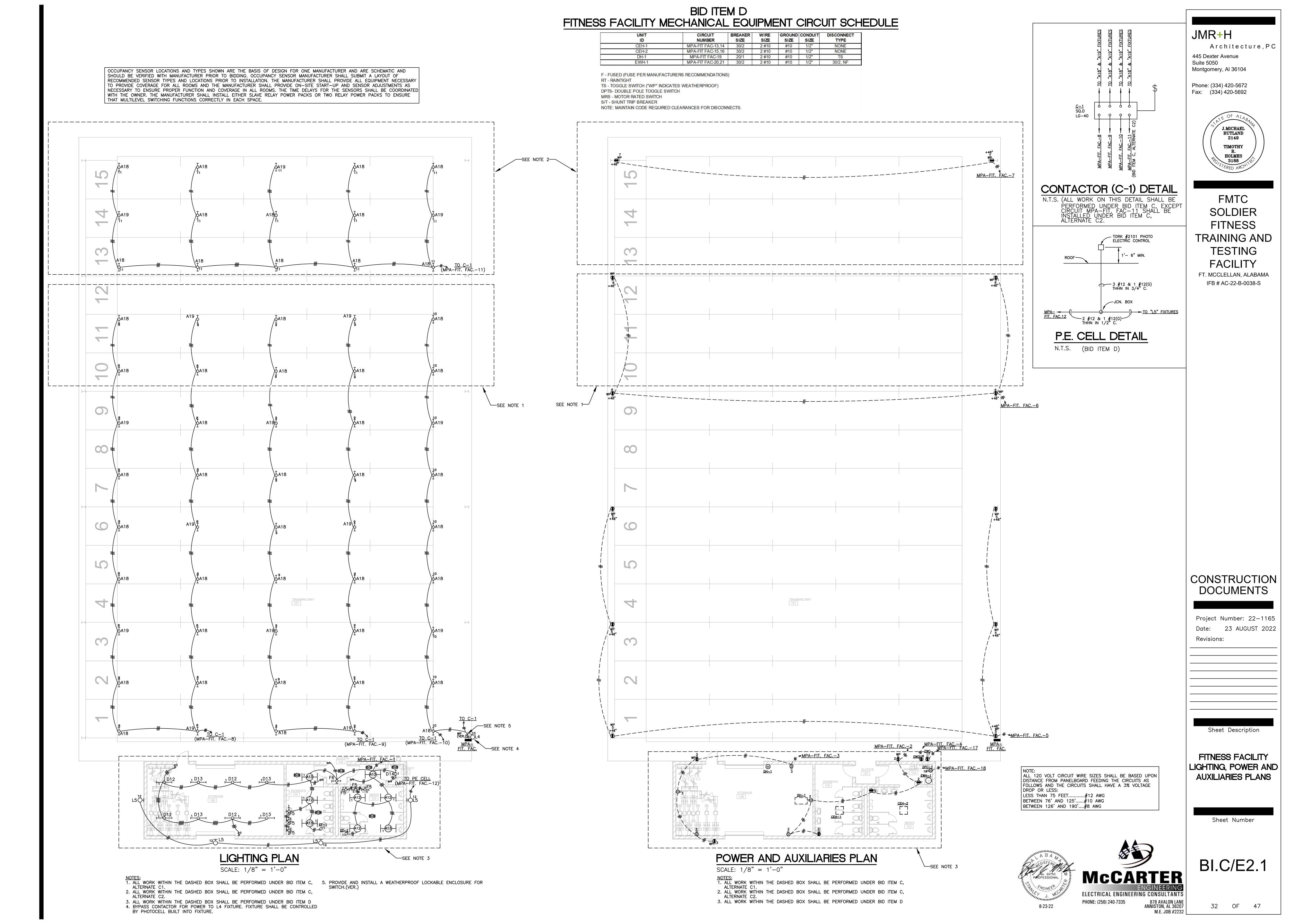
Revisions:

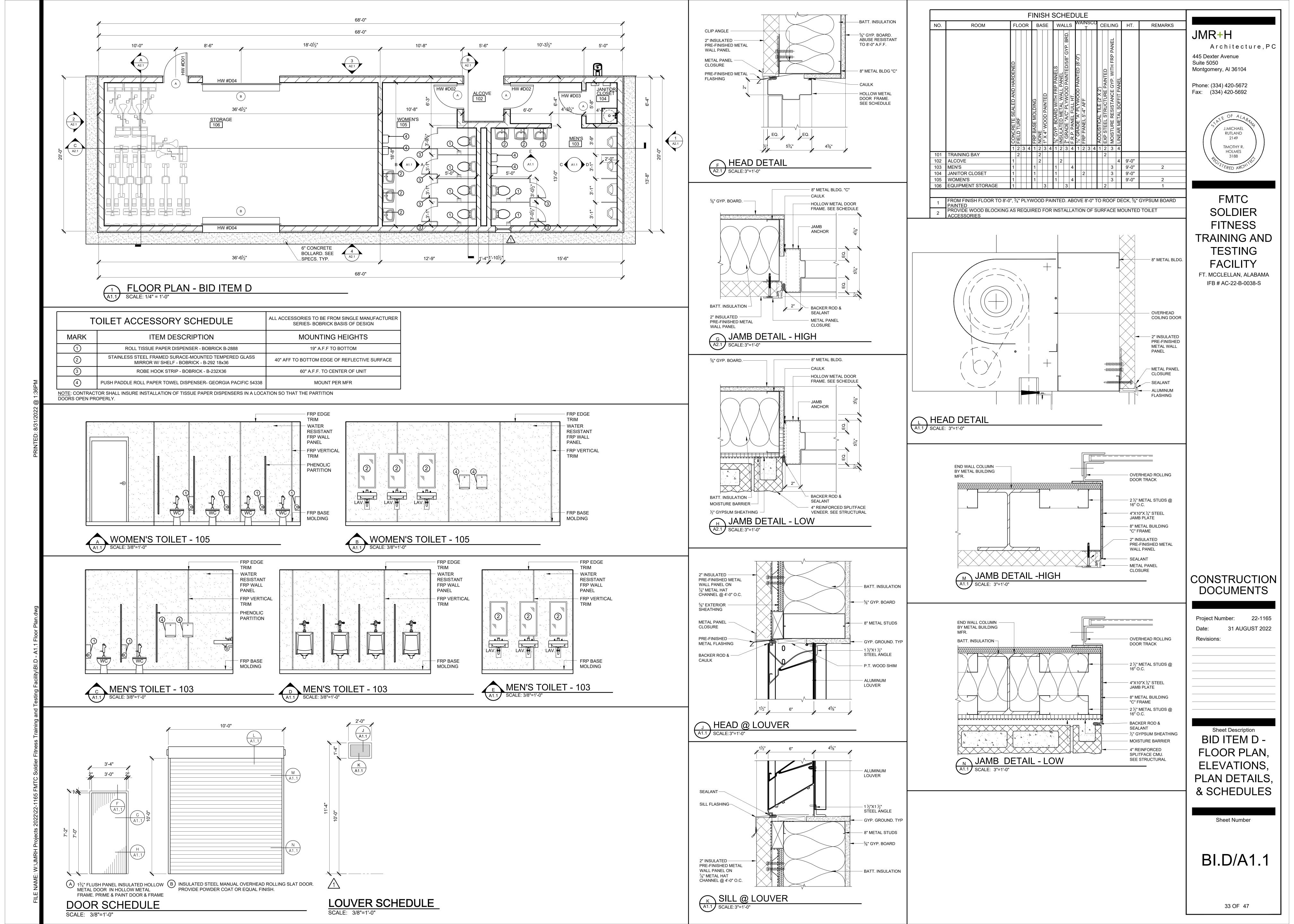
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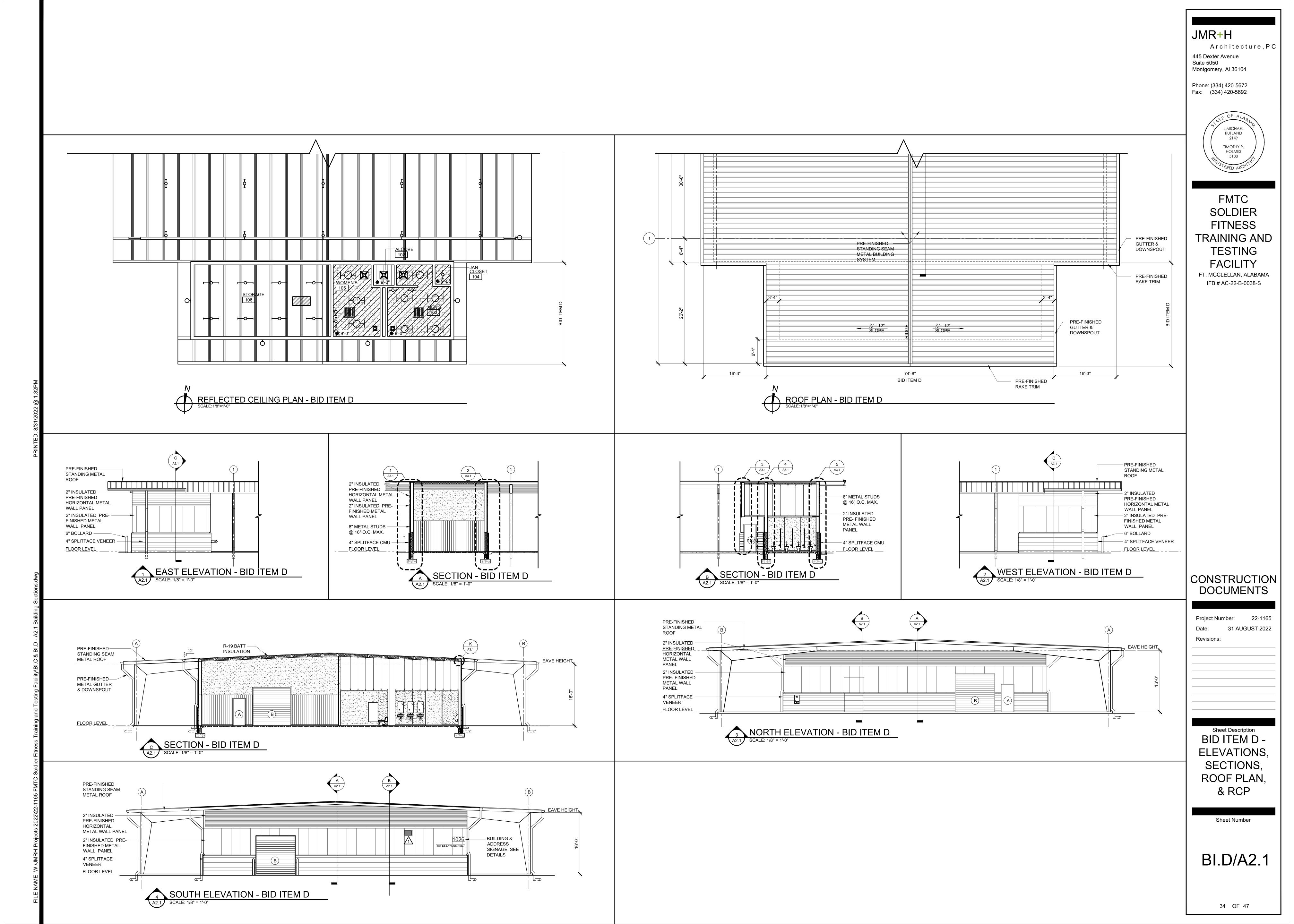
SYMBOLS, NOTES, SCHEDULES, SINGLE DIAGRAM, ELECTRICAL SITE PLAN AND DETAILS

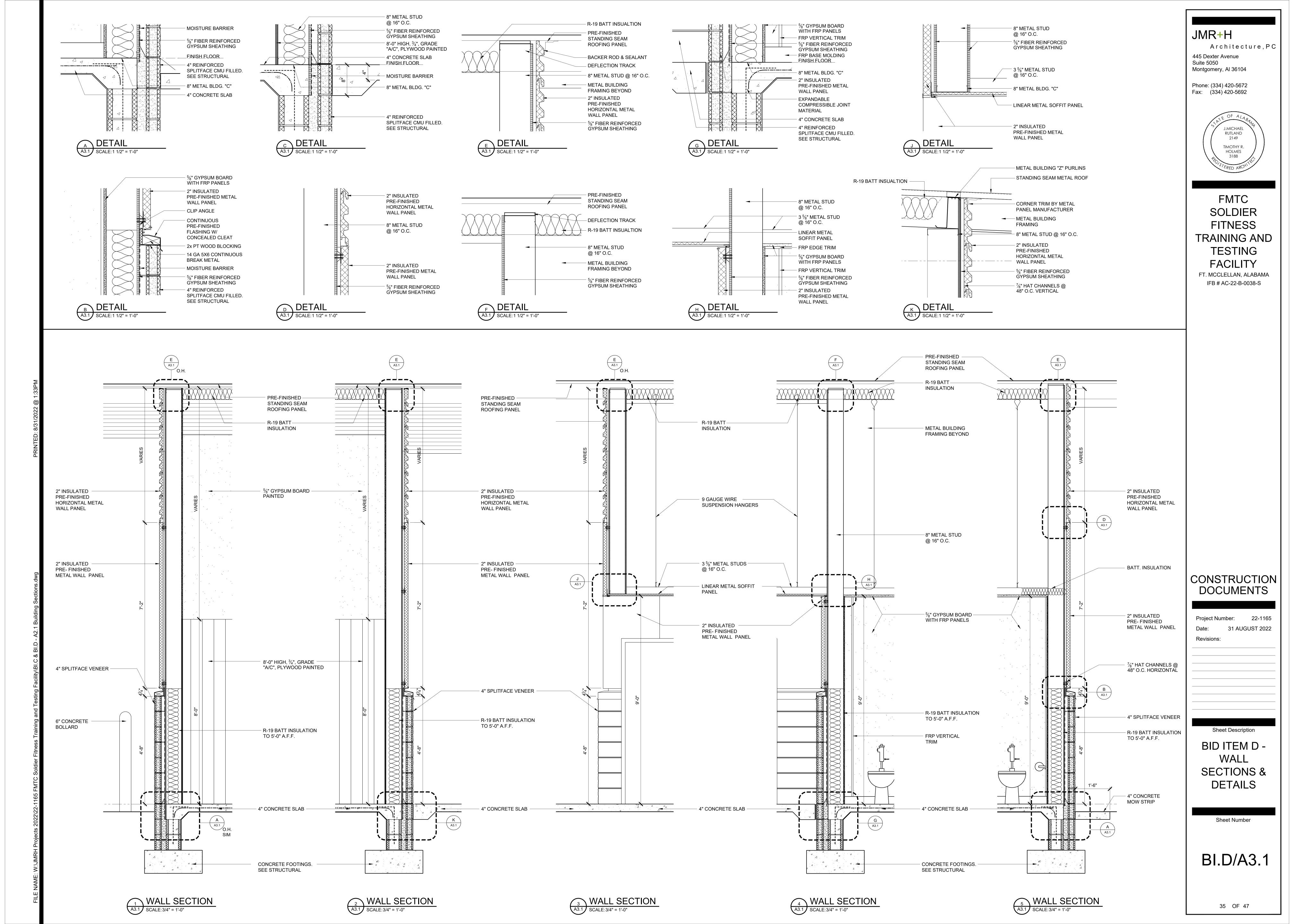
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GN.2 DESIGN CRITERIA:

ENGINEER AND ARCHITECT.

GN. GENERAL

CODES AND SPECIFICATIONS:

GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2018 EDITION.

THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE

REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES' DRAWINGS.

CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL

ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE STRUCTURAL

- DESIGN LOAD CRITERIA: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7.
- CONCRETE: 3. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. AMERICAN CONCRETE INSTITUTE. ACI 318.
- STRUCTURAL STEEL: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360
- COLD-FORMED STEEL STRUCTURAL MEMBERS: NORTH AMERICAN SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE.
- TIMBER: NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST & PAPER ASSOCIATION/AMERICAN WOOD COUNCIL.
- PREFABRICATED METAL BUILDING: METAL BUILDING MANUFACTURER ASSOCIATION'S DESIGN PRACTICES MANUAL.

DESIGN LOADS (PSF)

LIVE LOADS:

- DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
- ROOF (REDUCIBLE)-----20 LIVE LOAD REDUCTIONS HAVE BEEN APPLIED IN ACCORDANCE WITH THE BUILDING CODE, UNLESS NOTED.
- SNOW LOAD: GROUND SNOW LOAD (Pg)-----5.0 WIND LOADS: ULTIMATE DESIGN WIND SPEED, Vult-----108 MPH (3 - SECOND GUST) NOMINAL DESIGN WIND SPEED, Vasd-----84 MPH (3 - SECOND GUST)RISK CATEGORY-----II WIND EXPOSURE CATEGORY------C INTERNAL PRESSURE COEFFICIENT-----±0.18
 - WALL COMPONENT AND CLADDING WIND PRESSURE-SEE DRAWINGS
- SEISMIC LOADS: SEISMIC IMPORTANCE FACTOR (Ie)-----1.0 MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss-----0,239 \$1-----0.092 SITE CLASS-----D (ASSUMED) SITE COEFFICIENTS:
- Fv-----2.4 DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: Sds-----0.255 Sd1-----0.147 SEISMIC DESIGN CATEGORY------C

Fa-----1.6

- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION
- GN.4 SPECIAL INSPECTIONS/STRUCTURAL ENGINEER'S SITE VISITS:
 - SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE. REFER TO DRAWINGS.
 - SITE VISITS BY STRUCTURAL ENGINEER:

NOTIFY PRIOR TO THE

- STRUCTURAL ENGINEER'S SITE VISITS ARE FOR VISUAL OBSERVATION OF THE IN-PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION.
- CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT, PER THE SCHEDULE STATED BELOW, WHEN SUCH ITEMS HAVE PROGRESSED TO THE POINT WHERE THEY WILL BE IN PLACE AND READY FOR REVIEW. FAILURE TO NOTIFY MAY REQUIRE REMOVAL OF COMPLETED CONSTRUCTION.

FOLLOWING SCHEDULED TASKS NOTIFICATION

FIRST FOUNDATION POUR-----2 DAYS SHEATHING LOAD BEARING COLD-FORMED STEEL WALLS--2 DAYS

REQUIRED DAYS

SITE VISITS BY THE STRUCTURAL ENGINEER'S OFFICE DO NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

GN.5 SUBMITTALS:

REVIEW OF SHOP DRAWINGS AND OTHER SUBMITTALS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. ALL SHOP DRAWINGS MUST BE REVIEWED AND "APPROVED" BY THE CONTRACTOR PRIOR TO SUBMITTAL.

- ELECTRONIC SHOP DRAWING SUBMITTALS: SUBMIT ALL ELECTRONIC SHOP DRAWINGS IN .PDF FORMAT. REVIEWED SHOP DRAWINGS WILL BE RETURNED IN .PDF FORMAT. ALL PRINTS REQUIRED BY THE CONTRACTOR ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE MADE AFTER APPROVED SHOP DRAWINGS ARE RETURNED.
- RESUBMITTED SHOP DRAWINGS: RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL CHANGES SINCE THE PREVIOUS SUBMISSION IDENTIFIED BY CLOUDING OR OTHER CLEAR COMMUNICATION. RE-REVIEWED SHOP DRAWINGS WILL ONLY BE REVIEWED FOR IDENTIFIED CHANGES.
- SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS. ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED FOR STRUCTURAL ENGINEER'S RECORD
 - CONCRETE MIX DESIGNS
 - CONCRETE REINFORCING STRUCTURAL STEEL (*)
 - COLD-FORMED STEEL (*)
- DESIGN CALCULATIONS: THE CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER'S RECORD, DESIGN CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED FOR THE FOLLOWING ITEMS.
 - DELEGATED STRUCTURAL STEEL TRUSSES/FRAMES COLD-FORMED STEEL
- GN.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS. UNLESS NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS/ROOFS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT LOADS DO NOT EXCEED THE DESIGN LIVE LOAD.

FD. FOUNDATION

- FD.1 A GEOTECHNICAL ENGINEER, EMPLOYED BY THE OWNER, SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE BASIS OF DESIGN BEARING PRESSURE NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL
- FD.2 DESIGN BEARING PRESSURES (PSF):

COLUMN FOOTINGS-----1500

CONTINUOUS WALL FOOTINGS-----1500

- ALL FOUNDATION BEARING SURFACES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE COMPLIANCE WITH PRESSURES NOTED. THE FINAL BEARING ELEVATIONS MAY VARY AS REQUIRED TO PROVIDE PROPER BEARING CAPACITY IN AN APPROVED BEARING STRATUM AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHALL BE PLACED THE SAME DAY AS INSPECTION BY THE GEOTECHNICAL ENGINEER UNLESS EXTENDED TIME IS APPROVED BY THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHALL BE NEATLY EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTING EXCAVATION SHALL BE FILLED WITH CONCRETE TO THE TOP OF FOOTING. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE. WHERE SOFT OR UNSUITABLE BEARING SURFACES ARE ENCOUNTERED. THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH LEAN CONCRETE OR COMPACTED DENSE GRADED CRUSHED STONE AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

PROVIDE 4" OF COMPACTED GRANULAR FILL BENEATH ALL SLABS ON GRADE.

- PROVIDE 10 MIL VAPOR RETARDER BETWEEN BOTTOM OF SLAB AND TOP OF GRANULAR FILL.
- FOUNDATIONS SHALL BE CENTERED ABOUT COLUMN LINES, UNLESS NOTED.

CN. CONCRETE

- CN.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM W/C (WATER/CEMENTITIOUS MATERIALS RATIO), TOTAL AIR CONTENT, SLUMP AND CONCRETE USE:

NORMAL WT. 0.50 4-6% 3" TO 5" UNLESS NOTED

- ***DO NOT USE AIR ENTRAINING ADMIXTURES IN INTERIOR CONCRETE SLABS TO RECEIVE A HARD TROWEL FINISH.
- REINFORCING BARS: ASTM A615 GRADE 60.
- REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS IS A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- REINFORCING BAR PLACING ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS.
- DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI SP-066. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OR APPROVED BY THE STRUCTURAL ENGINEER.
- SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- CN.8 REINFORCING MARKED "CONTINUOUS" SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- CN.9 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGS-----2" TOP & 3" BOTTOM & SIDES GRADE BEAMS-----2" TOP & 3" BOTTOM & SIDES DRILLED PIERS-----3" CLEAR OF TIES PEDESTALS-----1-1/2" CLEAR OF TIES SLABS ON WELL GRADED SUBGRADE OR VAPOR BARRIERS: 3/4" TOP & 1 1/2" BOTTOM

SLABS ON GRADE: 6" THICK, REINFORCE WITH ASTM C 1116, TYPE III SYNTHETIC MACRO-FIBERS AT A DOSAGE RATE OF 3.5 POUNDS PER CUBIC YARD.

SS. STRUCTURAL STEEL

SS.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

- SS.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL THE LATERAL FORCE RESISTING SYSTEM AND STABILITY OF THE COMPLETED STRUCTURE IS IN PLACE
- SS.3 STRUCTURAL STEEL AND STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO THE

FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE:

ASTM A572, GRADE 50 [OR] ASTM A36 S, M, AND HP SHAPES AND CHANNELS

ASTM A992

ASTM A36

ASTM F436

STIFFENER PLATES, BASE PLATES, CAP PLATES, CONNECTION PLATES, AND ANGLES

W AND WT SHAPES

WASHERS

STEEL PIPE ASTM A53, TYPE E OR S, GRADE B

HOLLOW STRUCTURAL SECTIONS ASTM A500, GRADE C WELDED CONNECTIONS E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16"

HEADED ANCHOR RODS ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT, UNLESS INDICATED.

ASTM A108, GRADE 1015 THROUGH SHEAR CONNECTORS 1020, HEADED-STUD TYPE, COLD FINISHED CARBON STEEL; AWS D1.1, TYPE B.

ASTM F3125, GRADE A325 OR A490 BOLTS ASTM A563

- SS.4 FABRICATE BRACING MEMBERS WITH SUFFICIENT DRAW TO PREVENT SAGGING.
- SS.5 WHERE NO CAMBER IS INDICATED, BEAMS SHOULD BE ERECTED WITH NATURAL CAMBER ORIENTED UPWARD.
- BEAMS SHALL BE EQUALLY SPACED IN BAYS, UNLESS NOTED.
- SS.7 HSS MEMBERS SHALL HAVE A 1/4" CLOSURE PLATE.C
- SS.8 FOUR ANCHOR RODS MINIMUM FOR BASE PLATES UNDER COLUMNS.
- SS.9 GROUT UNDER BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC TYPE. GROUT SHALL HAVE A SPECIFIED DESIGN COMPRESSIVE STRENGTH TWO TIMES THAT OF THE SUPPORTING CONCRETE.
- SS.10 STRUCTURAL STEEL MEMBERS SHALL NOT BE CUT, SPLICED, OR MODIFIED IN THE FIELD UNLESS NOTED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER
- SS.11 STRUCTURAL STEEL NOT EXPOSED TO VIEW SHALL BE PRIMED WITH MANUFACTURER'S STANDARD SHOP PRIMER. STRUCTURAL STEEL EXPOSED TO WEATHER IN ITS FINAL POSITION SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. FOR STRUCTURAL STEEL EXPOSED TO VIEW, REFER TO PROJECT SPECIFICATIONS FOR FINISHED COATING SYSTEM.
- SS.12 SHOP PRIMER OR OTHER COATINGS SHALL NOT BE APPLIED TO THE FACE OF STRUCTURAL STEEL FRAMING SUBJECT TO HEADED STUD WELDING.
- SS.13 DRAIN HOLES SHALL BE PROVIDED IN ALL STEEL AS REQUIRED TO PREVENT WATER ACCUMULATION. HOLES THROUGH STRUCTURAL STEEL MEMBERS SHALL BE GROUND SMOOTH AND NOT EXCEEDING 1/2" DIAMETER. DRAIN HOLES SHALL BE LEFT CLEAN AND UNOBSTRUCTED.

CF. COLD-FORMED STEEL STRUCTURAL MEMBERS

- DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS(CFS) AND ACCESSORIES IS THE RESPONSIBILITY OF THE COLD-FORMED STEEL MANUFACTURER. THE CFS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE CONNECTIONS BETWEEN MEMBERS AND THEIR MB.3 CONNECTION TO THE BUILDINGS PRIMARY STRUCTURAL FRAME.
- CF.2 ANY COLD-FORMED STEEL SIZES NOTED ARE FOR PRELIMINARY PRICING INFORMATION ONLY. THE COMPLETE DESIGN OF COLD-FORMED STEEL FRAMING SYSTEM AND PREPARATION OF ERECTION DRAWINGS ARE BY THE ENGINEER RESPONSIBLE FOR THEIR DESIGN.
- CF.3 SUBMIT THE FOLLOWING:
 - PRODUCT DATA: FOR EACH TYPE OF COLD-FORMED STEEL PRODUCT AND ACCESSORY UTILIZED.
 - SHOP DRAWINGS: SHOW LAYOUT, SPACINGS, SIZES, THICKNESS, AND TYPES OF COLD-FORMED STEEL; FABRICATIONS; AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. SHOW REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.
 - CALCULATIONS: COLD-FORMED STEEL DESIGN CALCULATIONS FOR THE FILES OF THE STRUCTURAL ENGINEER AND ARCHITECT. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- CF.4 PROVIDE COLD-FORMED STEEL CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
- A. DESIGN LOADS AS INDICATED IN SECTION GN OF THESE GENERAL NOTES.
 - B. DEFLECTION LIMITS: DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING: EXTERIOR LOAD-BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF 1/360 OF THE WALL HEIGHT.
 - INTERIOR LOAD-BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF 1/240 OF THE WALL HEIGHT UNDER A HORIZONTAL LOAD OF 5 LB F/SQ. FT.
 - EXTERIOR NON-LOAD-BEARING FRAMING: HORIZONTAL DEFLECTION OF 1/360 OF THE WALL HEIGHT.
- CF.5 VERTICAL STUDS SHALL BE 100% END BEARING.
- CF.6 PROVIDE WALL BRACING, CONNECTION DETAILS, AND WINDOW HEADERS AS RECOMMENDED BY THE STUD MANUFACTURER FOR LOAD-BEARING STUDS.
- CF.7 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH FILLET WELDS AT 6".

WD. WOOD CONSTRUCTION

WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONAL #2 GRADE SOUTHERN PINE.

WD.2 SILL PLATES. SOLE PLATES AND TOP PLATES SHALL BE OF THE SAME SIZE AND SPECIES AS THE STUDS TO WHICH THEY ARE CONNECTED. GRADE AND SPECIES SHALL BE AS SPECIFIED ABOVE.

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- WD.3 ALL LUMBER TO HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF CONSTRUCTION.
- WD.4 ALL PRESSURE TREATED SOUTHERN PINE LUMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1, COMMODITY SPECIFICATION A.
 - A. USE CATEGORIES:

UC2/INTERIOR DRY — SILL PLATES

- UC3B/ABOVE GROUND EXPOSED EXPOSED LUMBER DECKING, RAILINGS, BEAMS, COLUMNS, JOISTS, SHEATHING, ETC.
- UC4A/GROUND CONTACT OR INCLUSION PER U1, SECTION 2, NOTE 1 WOOD FOUNDATIONS, DECKING, BALCONY FRAMING, ETC.
- ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH LUMBER PRESSURE TREATED WITH ACQ SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL OR AS RECOMMENDED BY THE ACQ MANUFACTURER. PRESSURE TREATED LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.
- DIMENSIONED LUMBER FLOOR JOISTS SHALL BE LATERALLY BRACED AT ENDS. POINTS OF BEARING AND MAXIMUM INTERVALS OF 8'-0" BY SOLID BLOCKING, BRIDGING OR TRANSVERSE BEAMS IN ORDER TO PREVENT ROTATION.
- WD.6 ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER. HARDWARE TO BE FASTENED FOR MAXIMUM CAPACITY WHERE MANUFACTURER PROVIDES OPTION.
- MULTI-PLY ENGINEERED LUMBER BEAMS, UNLESS NOTED OTHERWISE, ARE TO BE FASTENED TOGETHER WITH SIMPSON STRONG-TIE SDS SCREWS OR APPROVED EQUAL WITH A MINIMUM OF TWO ROWS OF FASTENERS AT 12 INCHES (STAGGERED) AND SPACED 3 INCHES FROM THE TOP AND BOTTOM OF BEAMS.

WD.8 REFER TO IBC TABLE 2304.10.1 FOR FASTENING REQUIREMENTS NOT SPECIFICALLY

STATED IN DRAWINGS. WD.9 NAILS, WIRE BRADS, STAPLES: SHALL CONFORM TO ASTM F1667. ALL NAILS

SPECIFIED IN DOCUMENTS ARE COMMON NAILS, UNLESS NOTED.

- WD.10 POWER DRIVEN FASTENERS: SHALL CONFORM TO NER-272.
- WD.11 WOOD SCREWS: SHALL CONFORM TO ASME B18.6.1.
- WD.12 LAG BOLTS: SHALL CONFORM TO ASME B18.2.1.
- WD.13 THE NUMBER OF PLIES IN THE BUILT-UP COLUMN SHALL MATCH OR EXCEED THE NUMBER OF PLIES OF THE BEAM IT SUPPORTS IF SPECIFIC SIZE IS NOT GIVEN IN CONSTRUCTION DOCUMENTS.
- WD.14 FREE-STANDING COLUMNS/POSTS/STUDPACKS SHALL BE BRACED AT FOUNDATION WITH SIMPSON POST BASE CB, CBS, LCB, PB, OR PBS. THE GENERAL CONTRACTOR SHALL COORDINATE TYPE AND SIZE OF HARDWARE BASED ON SIZE OF WOOD POST/STUDPACK IN STRUCTURAL PLANS.

MB. MANUFACTURED METAL BUILDING SYSTEM

INSTALLING ANCHOR RODS.

- METAL BUILDING MANUFACTURER SHALL BE ACCREDITED BY INTERNATIONAL ACCREDITATION SERVICES' IAS ACCREDITATION FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEMS (AC472). METAL BUILDING MANUFACTURER SHALL PROVIDE IAS ACCREDITATION DOCUMENTATION TO THE ARCHITECT.
- MB.2 METAL BUILDING SHALL BE DESIGNED IN ACCORDANCE WITH "THE METAL BUILDING MANUFACTURERS ASSOCIATION'S DESIGN PRACTICES MANUAL."

THE BUILDING STRUCTURAL FRAME (INCLUDING LATERAL LOADS) DOWN TO THE

THE METAL BUILDING MANUFACTURER WILL BE RESPONSIBLE FOR COMPLETE DESIGN OF

- FOUNDATION. THE DESIGN SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. METAL BUILDING DESIGN CALCULATIONS' COVER SHEET AND ALL METAL BUILDING SHOP DRAWINGS AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY THE
- MANUFACTURER'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE FOUNDATION DRAWINGS HAVE BEEN PREPARED BASED ON ASSUMED LOADS. THE

CONTRACTOR SHALL SUBMIT FINAL SIGNED AND SEALED DRAWINGS AND DESIGN

- REACTIONS FOR THE BUILDING FRAME FOR THE PURPOSE OF CONFIRMING THE DESIGN. HEADED ANCHOR ROD SIZE, LOCATION, AND PROJECTION ABOVE TOP OF SLAB ARE TO BE PROVIDED BY METAL BUILDING MANUFACTURER. FOR MINIMUM ANCHOR ROD EMBEDMENT LENGTH, SEE TYPICAL DETAILS. HEADED ANCHOR RODS, INCLUDING INSTALLATION TOLERANCES, HOLE SIZES IN BASE PLATES, AND PLATE WASHERS, ARE TO BE COORDINATED BETWEEN METAL BUILDING SUPPLIER AND GENERAL CONTRACTOR
- BEFORE FOOTING INSTALLATION, GENERAL CONTRACTOR SHALL COORDINATE THE HEADED ANCHOR ROD EMBEDMENT LENGTHS. THE FOOTING DEPTH SHALL BE THE SCHEDULED DEPTH OR THE HEADED ANCHOR ROD EMBEDMENT LENGTH PLUS 3 INCHES. WHICHEVER IS GREATER.
- METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE ANCHOR ROD DESIGN. FOUNDATION DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE FOUNDATION CONCRETE AND SHALL SPECIFY MINIMUM ANCHOR ROD EMBEDMENT LENGTHS REQUIRED TO SATISFY THE FOUNDATION DESIGN.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY BRACING, SHORING, GUYING, ETC. AND OTHER METHODS TO PREVENT EXCESSIVE STRESSES DURING CONSTRUCTION. THESE PROVISIONS ARE TO REMAIN IN PLACE UNTIL SUFFICIENT PERMANENT MEMBERS ARE CONSTRUCTED TO ENSURE THE SAFETY OF THE STRUCTURE.
- MB.10 ALL COLUMNS SHALL BE ANALYZED AND DESIGNED AS HAVING PINNED BASES.
- MB.11 METAL BUILDING MANUFACTURER SHALL COORDINATE COLUMN LAYOUT WITH THE CONTRACT DRAWINGS. ANY COLUMN LAYOUT CHANGES MUST BE SUBMITTED FOR REVIEW OF FOUNDATION DESIGN BEFORE CONSTRUCTION STARTS.
- MB.12 GRAVITY DESIGN LOADS:
 - A. LIVE LOAD: 20 PSF (REDUCIBLE AT RIGID FRAME RAFTERS AND COLUMNS ONLY)
 - DEAD LOAD: WEIGHT OF STRUCTURE
 - COLLATERAL LOAD: INCLUDE ADDITIONAL DEAD LOADS OTHER THAN THE WEIGHT OF THE STRUCTURE FOR PERMANENT ITEMS SUCH AS SPRINKLERS, MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS, CEILING, LIGHTS, DUCTS, KITCHEN HOODS, OPERABLE WALLS, BASKETBALL GOALS, ETC. PROVIDE MINIMUM COLLATERAL LOADING OF 5 PSF.

JMR+H

Architecture, PC 445 Dexter Avenue Suite 5050 P.O. Box 1706

Montgomery, Al 36104 Phone: (334) 420-5672 Fax: (334) 420-5692



FMTC SOLDIER TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION **DOCUMENTS**

Project Number: 22-1165 31 AUGUST 2022 Revisions:

Sheet Description

GENERAL NOTES

Sheet Number

BI.D-S1.1

GENERAL NOTES

- GIRTS:
 - SUPPORTING METAL PANELS
 - HORIZONTAL DEFLECTION: SPAN/90
 - SUPPORTING MASONRY
 - A. HORIZONTAL DEFLECTION: SPAN/240 BUT NOT GREATER THAN 1½".
- OVERALL BUILDING DRIFT:
 - FOR BUILDINGS WITH SENSITIVE INTERIOR FINISHES (INCLUDING SHEETROCK AND MASONRY WALLS) OR RIGIDLY ATTACHED MECHANICAL SYSTEMS: H/500 (3/8" MAX)
 - FOR BUILDINGS WITH MASONRY INTERIOR OR EXTERIOR WALLS: H/200
 - H IS THE BUILDING EAVE HEIGHT.
- DEFLECTION AND DRIFT LIMITS ARE TO BE CONSIDERED WITH A 10 YEAR WIND OCCURRENCE.
- DEFLECTION AND DRIFT DUE TO SEISMIC LOADS SHOULD BE LIMITED IN ACCORDANCE WITH THE BUILDING CODE.
- MB.14 EXCEPT AS APPROVED, STRUCTURAL CLEARANCES SHALL BE MAINTAINED AS CURRENTLY INDICATED IN THE CONTRACT DOCUMENTS.
- MB.15 STANDING SEAM STEEL DECK SHALL NOT BE CONSIDERED AS PROVIDING DIAPHRAGM RESISTANCE FOR LATERAL WIND LOADS.
- MB.16 METAL BUILDING INSPECTOR OR ENGINEER SHALL VISIT THE PROJECT SITE AFTER THE COMPLETION OF THE BUILDING.
- MB.17 ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE SUBJECT TO APPROVAL BY THE REGISTERED DESIGN PROFESSIONAL. ALL DEVIATIONS SHALL BE EXPRESSLY LISTED AND DEFINED IN THE SHOP DRAWING SUBMITTAL. REGISTERED DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT LISTED, AND APPROVAL OF UNLISTED DEVIATIONS SHALL NOT BE IMPLIED.

PA. POST INSTALLED ANCHORS

- PA.1 POST INSTALLED ANCHORS SHALL COMPLY WITH ACI-318 CHAPTER 17.
- PA.2 ACCEPTABLE MANUFACTURERS SHALL INCLUDE BUT ARE NOT LIMITED TO HILTI, INC. AND SIMPSON STRONG-TIE COMPANY, INC. AND DEWALT ANCHORS.
- PA.3 CARE SHALL BE TAKEN IN PLACING POST INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.
- PA.4 HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR ALONG WITH PREPARED DOCUMENTATION DEMONSTRATING THAT THE PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
- PA.5 THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND RECOMMENDATIONS.
- PA.6 ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS.
- PA.7 CONCRETE ANCHORS:
 - 1. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI-355.2 AND ICC-ES AC193.
 - 2. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI355.4 AND ICC-ES AC308.

Special Inspection General Notes

SPECIAL INSPECTIONS

- SI.1 ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE INTERNATIONAL BUILDING CODE AND ITS REFERENCED SPECIFICATIONS.
- SI.2 THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER OR THE OWNER'S AGENT AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK.
- SI.3 THE SPECIAL INSPECTOR SHALL BE QUALIFIED PER THE INTERNATIONAL BUILDING CODE AND SHALL BE EDUCATED IN THE TASKS REQUIRED TO CONDUCT, SUPERVISE, AND EVALUATE THE INSPECTIONS. THE SPECIAL INSPECTOR MUST ALSO BE OBJECTIVE, COMPETENT, AND HAVE ACCESS TO THE APPROPRIATE TESTING EQUIPMENT WHICH SHALL BE MAINTAINED AND PERIODICALLY CALIBRATED. THE QUALIFICATIONS OF THE SPECIAL INSPECTOR MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.
- SI.4 SPECIAL INSPECTION AGENTS:
 - APPROVED TESTING AGENCY
 - 2. GEOTECHNICAL ENGINEER OF RECORD:
 - EOR: ENGINEER OF RECORD:
 - LBYD INC. 1100 SOUTH COLLEGE STREET, SUITE 201 AUBURN, AL 36832
- SI.5 THE SPECIAL INSPECTIONS SHALL BE PERFORMED IN ADDITION TO ANY OBSERVATIONS PERFORMED BY THE ENGINEER OF RECORD AND ANY INSPECTIONS PERFORMED BY THE BUILDING OFFICIAL.
- SI.6 THE SPECIAL INSPECTOR SHALL MAINTAIN RECORDS AND PROVIDE THE REQUIRED DOCUMENTATION AS PRESCRIBED IN THE INTERNATIONAL BUILDING CODE, INCLUDING THE SUBMITTAL OF REPORTS TO THE BUILDING OFFICIAL AND THE DESIGNER OF RECORD.
- SI.7 THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE SPECIAL INSPECTOR TO ALLOW FOR SPECIAL INSPECTIONS.
- SI.8 CONSTRUCTION WHICH REQUIRES SPECIAL INSPECTIONS SHALL BE MAINTAINED IN SUCH A STATE AS TO ALLOW ACCESS FOR THE SPECIAL INSPECTOR UNTIL THE REQUIRED INSPECTIONS OR TESTS HAVE BEEN COMPLETED.
- SI.9 ANY DEVIATIONS FOUND DURING THE SPECIAL INSPECTION PROCESS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE DESIGNER OF RECORD. ALL DEVIATIONS MUST BE ADDRESSED PRIOR TO COMPLETION OF THE WORK.
- SI.10 INSPECTION FREQUENCY:
 - A. CONTINUOUS SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
 - B. PERIODIC SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
 - C. OBSERVE OBSERVE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
 - D. PERFORM PERFORM TASKS FOR EACH JOINT, MEMBER, AND CONNECTION.

Concrete

NO.	INSPECTION TASK	FREQUENCY	REFERENCE STANDARD	AGENT
1.00	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH 20, 25.2, 25.3, 26.5.1-26.5.3; IBC 1908.4	ATA
2.00	REINFORCING BAR WELDING:			ATA
2.01	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706.	PERIODIC	AWS D1.4	ATA
2.02	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	PERIODIC	ACI 318: 26.5.4	ATA
2.03	INSPECT ALL OTHER WELDS.	CONTINUOUS		ATA
3.00	INSPECT ANCHORS CAST IN CONCRETE.	PERIODIC	ACI 318: 17.8.2	ATA
4.00	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.			ATA
4.01	INSPECT ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS	ACI 318: 17.8.2.4	ATA
4.02	INSPECT MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.01.	PERIODIC	ACI 318: 17.8.2	ATA
5.00	VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH 19, 26.4.3, 26.4.4; IBC 1904.1, 1904.2, 1908.2, 1908.3	ATA
6.00	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. DETERMINE UNIT WEIGHT OF LIGHTWEIGHT CONCRETE.	CONTINUOUS	ASTM C 172; ASTM C 31; ACI 318:26.4.5, 26.12; IBC 1908.10	ATA
7.00	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.4.5; IBC 1908.6, 1908.7, 1908.8	ATA
8.00	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.4.7-26.4.9; IBC 1908.9	ATA
9.00	INSPECT PRESTRESSED CONCRETE FOR:			ATA
9.01	APPLICATION OF PRESTRESSING FORCES.	CONTINUOUS	ACI 318: 26.9.2.1	ATA
9.02	GROUTING OF BONDED PRESTRESSING TENDONS.	CONTINUOUS	ACI 318: 26.9.2.3	ATA
10.00	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH 26.8	ATA
11.00	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.10.2	ATA
12.00	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.10.1(B)	ATA
13.00	ISOLATED CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (1)	ATA
14.00	CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF LIGHT-FRAME CONSTRUCTION OR THOSE THAT ARE DESIGNED IN ACCORDANCE WITH IBC 2015 TABLE 1809.7 ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (2)	ATA
15.00	SLABS ON GRADE ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (3)	ATA
16.00	CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH IBC 2015 TABLE 1807.1.6.2 ARE EXCEPTED FROM INSPECTIONS BUT NOT FROM MATERIALS TESTING.		IBC 1705.3 (4)	ATA



NO	Cold-Formed F		DEFENDENCE FOR ORITERIA	105
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	AGE
1.00	PRIOR TO ASSEMBLY OR INSTALLATION:	DEDECOM	AISI S240 TABLE D6.5-1	
1.01	VERIFY COMPLIANCE OF STRUCTURAL MEMBERS FOR PRODUCT IDENTIFICATION	PERFORM	AISI S240 SECTION A5.5	AT
1.02	VERIFY COMPLIANCE OF CONNECTORS	PERFORM		A1
1.03	DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL	PERFORM		A
	STRUCTURAL MEMBERS AND CONNECTORS	-		
2.00	AFTER ASSEMBLY OR INSTALLATION:		AISI S240 TABLE D6.5-2	
2.01	VERIFY COMPLIANCE OF COLD-FORMED STEEL STRUCTURAL	PERFORM	AISI S240 SECTION A5.5	A
	MEMBERS FOR PRODUCT IDENTIFICATION			
2.02	VERIFY COMPLIANCE OF CONNECTORS	PERFORM		A
2.03	DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL STRUCTURAL MEMBERS AND CONNECTORS	PERFORM		A A
3.00	PRIOR TO WELDING:		AISI S240 TABLE D6.6-1	
3.00 3.01	WELDING PROCEDURE SPECIFICATIONS AVAILABLE	OBSERVE	AISI 5240 TABLE D0.0-1	A-
3.01	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	OBSERVE		A A
3.02	AVAILABLE	OBSERVE		^
3.03	MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE		A.
3.04	CHECK WELDING EQUIPMENT	OBSERVE		A-
4.00	DURING WELDING:		AISI S240 TABLE D6.6-2	
4.01	USE OF QUALIFIED WELDERS	OBSERVE		A-
4.02	CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE		A
4.03	ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE,	OBSERVE		A A
	TEMPERATURE)			
4.04	WELDING PROCEDURE SPECIFICATIONS FOLLOWED	OBSERVE		A ⁻
5.00	AFTER WELDING:		AISI S240 TABLE D6.6-3	
5.01	VERIFY COMPLIANCE OF WELDS	PERFORM		A ⁻
5.02	WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM		A ⁻
5.03	VERIFY REPAIR ACTIVITIES	PERFORM		A ⁻
5.04	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED CONNECTIONS	PERFORM		A ⁻
6.00	PRIOR TO MECHANICAL FASTENING:		AISI S240 TABLE D6.7-1	
3.01	MECHANICAL FASTENER MANUFACTURER INSTALLATION	OBSERVE		A ⁻
0.00	INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	000001		
6.02	PROPER TOOLS AVAILABLE FOR MECHANICAL FASTENER INSTALLATION	OBSERVE		A
6.03	PROPER STORAGE FOR MECHANICAL FASTENERS	OBSERVE		A A
7.00	DURING MECHANICAL FASTENING:	OBSERVE	AISI S240 TABLE D6.7-2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
7.00 7.01	MECHANICAL FASTENERS ARE POSITIONED AS REQUIRED	OBSERVE	AIGI 3240 TABLE D0.1-2	A A
7.01 7.02	MECHANICAL FASTENERS ARE INSTALLED IN ACCORDANCE WITH	OBSERVE		A.
ı .UZ	MANUFACTURER'S INSTRUCTIONS	ODSERVE		
8.00	AFTER MECHANICAL FASTENING:		AISI S240 TABLE D6.7-3	
8.01	VERIFY COMPLIANCE OF MECHANICAL FASTENERS	PERFORM		A
8.02	REPAIR ACTIVITIES	PERFORM		A
8.03	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICALLY	PERFORM		A.
	FASTENED CONNECTIONS			
9.00	AFTER INSTALLATION OF COLD-FORMED STEEL LIGHT-FRAME		AISI S240 TABLE D6.8-1	
	CONSTRUCTION:			
9.01	VERIFY COMPLIANCE OF COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION	PERFORM		A ⁻
9.02	DOCUMENT ACCEPTANCE OR REJECTION OF COLD-FORMED STEEL	PERFORM		A A
3.02	LIGHT-FRAME CONSTRUCTION	I LIN ON		
10.00	PRIOR TO INSTALLATION OF COLD-FORMED STEEL LATERAL FORCE		AISI S240 TABLE D6.9-1	
	RESISTING SYSTEMS:			
0.01	VERIFY COMPLIANCE OF SHEAR WALL AND DIAPHRAGM SHEATHING,	PERFORM		A ⁻
	DIAGONAL STRAP BRACING, AND HOLD-DOWNS			
0.02	DOCUMENT ACCEPTANCE OR REJECTION OF SHEAR WALL AND	PERFORM		A ⁻
	DIAPHRAGM SHEATHING, DIAGONAL STRAP BRACING, AND HOLD-DOWNS			
1.00	PRIOR TO WELDING OF COLD-FORMED STEEL LATERAL FORCE		AISI S240 TABLE D6.9-2	
1.00	RESISTING SYSTEMS:		AIOI OZTO IADEL DO.3-Z	
1.01	WELDER IDENTIFICATION SYSTEM	OBSERVE		A.
1.02	FIT-UP OF WELDS (ALIGNMENT, GAPS, CONDITION OF STEEL	OBSERVE		A A
- 	SURFACES)			
2.00	PRIOR TO MECHANICAL FASTENING OF COLD-FORMED STEEL		AISI S240 TABLE D6.9-3	
	LATERAL FORCE RESISTING SYSTEMS:			
2.01	PROPER FASTENERS SELECTED	OBSERVE		A.
2.02	PROPER INSTALLATION PROCEDURE SELECTED	OBSERVE		A.
2.03	CONNECTING ELEMENTS MEET APPLICABLE REQUIREMENTS	OBSERVE		A.
3.00	DURING MECHANICAL FASTENING OF COLD-FORMED STEEL LATERAL		AISI S240 TABLE D6.9-4	
2.04	FORCE RESISTING SYSTEMS:			
3.01	FOR SCREW CONNECTIONS, JOINT BROUGHT TIGHT TO AVOID GAPS BETWEEN PLIES	OBSERVE		A
3.02	FOR SCREW CONNECTIONS, TOOL ADJUSTED TO AVOID STRIPPED	OBSERVE		A.
∪.∪∠	AND OVERDRIVEN FASTENERS	ODOLIVE		
3.03	FOR POST-INSTALLED CONNECTIONS TO CONCRETE, INSTALLATION	PERFORM		A ⁻
	IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS			
4.00	AFTER INSTALLATION OF COLD-FORMED STEEL LATERAL FORCE		AISI S240 TABLE D6.9-5	
	RESISTING SYSTEMS:			
4.01	VERIFY COMPLIANCE OF COLD-FORMED STEEL LATERAL FORCE	PERFORM		A ⁻
	RESISTING SYSTEM INSTALLATION			
4.02	DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF	PERFORM		A ⁻
<i></i>	COLD-FORMED STEEL LATERAL FORCE RESISTING SYSTEM		A101 0040 IDC 4707 0 :	
5.00	COLD-FORMED STEEL TRUSSES WITH A CLEAR SPAN OF 60 FEET OR GREATER:		AISI S240 IBC 1705.2.4	
5.01	TEMPORARY RESTRAINTS/BRACING INSTALLED IN ACCORDANCE	PERIODIC		A ⁻
J.U I	WITH APPROVED TRUSS SUBMITTAL	FERIODIO		A
15.02	PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINTS/BRACING	PERIODIC		A

	Metal Building Systems								
NO.	INSPECTION TASK	FREQUENCY	REFERENCE FOR CRITERIA	AGENT					
1.00	VERIFY TEMPORARY BRACING OF BUILDING IS IN PLACE DURING ERECTION.	PERIODIC		ATA					
2.00	VERIFY PLACEMENT OF ALL GIRTS AND PURLINS ACCORDING TO THE ERECTION DRAWINGS.	PERIODIC		ATA					
3.00	VERIFY THAT SECONDARY FLANGE BRACING HAS BEEN INSTALLED ACCORDING TO THE ERECTION DRAWINGS.	PERIODIC		ATA					
4.00	VERIFY THAT ALL X-BRACING AND PORTAL FRAMES HAVE BEEN INSTALLED PER THE ERECTION DRAWINGS.	PERIODIC		ATA					
5.00	VERIFY THAT NO MEMBERS HAVE BEEN ALTERED OR CUT WITHOUT THE APPROVAL OF THE BUILDING MANUFACTURER.	PERIODIC		ATA					
6.00	VERIFY THAT ALL GIRT AND PURLIN BRIDGING IS IN PLACE PER THE ERECTION DRAWINGS.	PERIODIC		ATA					
7.00	VERIFY THAT ALL WALL AND ROOF OPENINGS ARE PER THE BUILDING ERECTION DRAWINGS.	PERIODIC		ATA					

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Civil and Structural Engineers 1100 South College Street JMR+H

445 Dexter Avenue Suite 5050 P.O. Box 1706 Montgomery, Al 36104 Phone: (334) 420-5672

Fax: (334) 420-5692

Architecture, PC



FMTC SOLDIER TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION **DOCUMENTS**

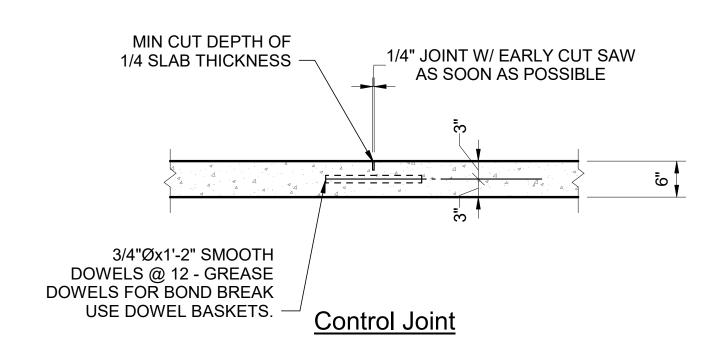
Project Number: 22-1165 Date: 31 AUGUST 2022 Revisions:

Sheet Description

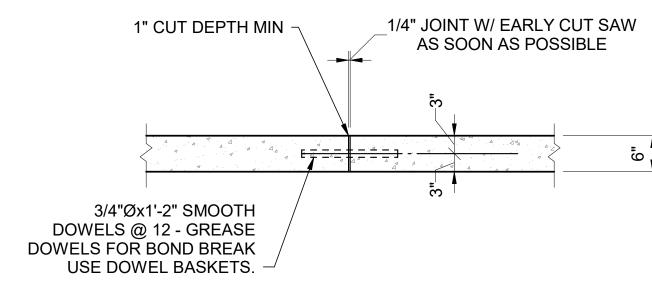
GENERAL | NOTES - CONTD.

BI.D-S1.2

Components and Cladding Wind Pressures						
(SCE 7-16	5)			
ZONE	EFFECTIVE WIND AREA (SQ FT)	MAX POSITIVE PRESSURE (PSF)	MAX NEGATIVE PRESSURE (PSF)			
ZONE 1'	10	7.9	-17.7			
ROOF	20	7.4	-17.7			
INTERIOR	50	6.7	-17.7			
ZONE	<u>≥</u> 100	6.2	-17.7			
ZONE 1	10	7.9	-30.8			
ROOF	20	7.4	-28.8			
INTERMEDIATE	50	6.7	-26.1			
ZONE	<u>≥</u> 100	6.2	-24.1			
	10	7.9	-40.7			
ZONE 2	20	7.4	-38.1			
ROOF EDGE ZONE	50	6.7	-34.6			
20112	<u>></u> 100	6.2	-34.6			
ZONE 3	10	7.9	-55.4			
ROOF	20	7.4	-50.2			
CORNER	50	6.7	-43.3			
ZONE	<u>></u> 100	6.2	-38.1			
	10	17.7	-19.2			
ZONE 4	20	16.9	-18.4			
WALL INTERIOR	50	15.9	-17.4			
ZONE	100	15.1	-16.6			
	<u>≥</u> 500	13.3	-14.8			
	10	17.7	-23.6			
ZONE 5	20	16.9	-22.1			
WALL EDGE	50	15.9	-20.0			
ZONE	100	15.1	-18.4			
	<u>≥</u> 500	13.3	-14.8			
EAVE HEIGHT, h	WIDTH OF EDGE STRIP, a = 6' EAVE HEIGHT, h: SEE ROOF FRAMING PLAN INTERNAL PRESSURE COEFFICIENT = ±0.18					



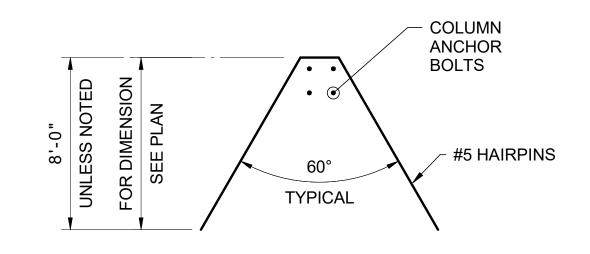
RELIABLE DEAD LOAD FOR UPLIFT = 5 PSF



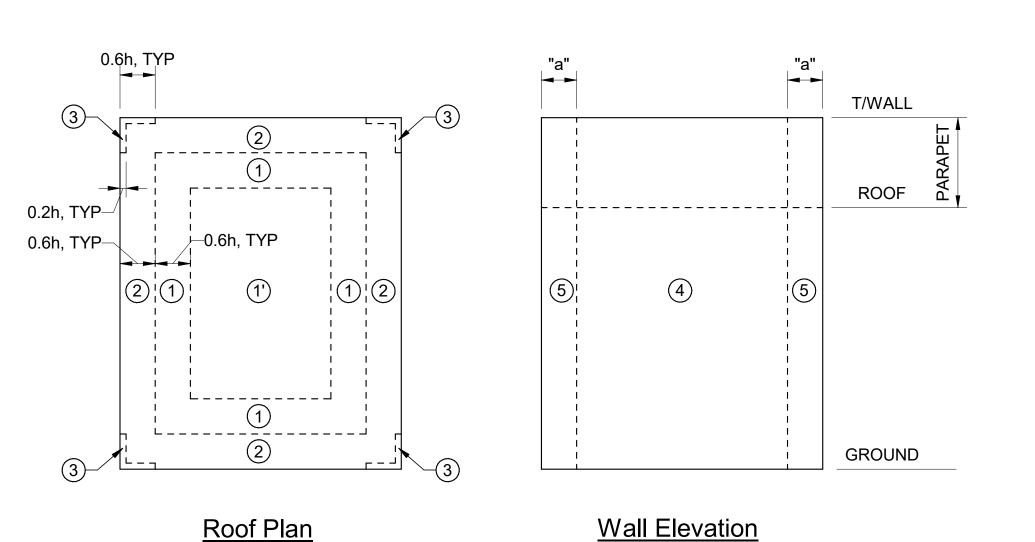
Construction Joint

1. CONTROL JOINT FILLER SEMI-RIGID EPOXY. 2. SAWCUT TO TAKE PLACE WITHIN 4-12 HOURS OF FINISHING CONCRETE: 4 HOURS IN HOT WEATHER, 12 HOURS IN COLD WEATHER.

6" Slab Control Joint Detail JOINT TYPE IS OPTIONAL



Column Hairpin Detail



Components and Cladding Wind Pressures

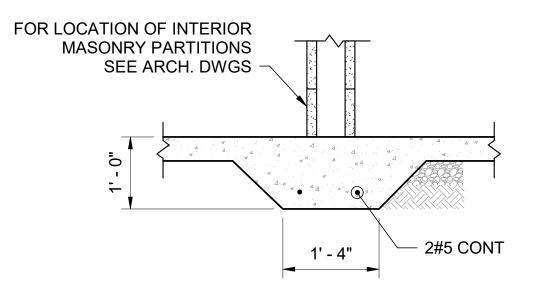
TREADS

2#5 CONT

Stair on Grade Detail

NOTE: FOR TREAD AND RISER DETAILS SEE ARCH.

1#3 EACH NOSING

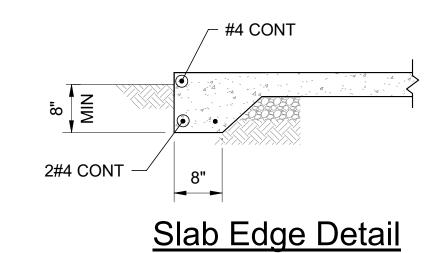


LAP SPLICE

SIZE AND NUMBER AS

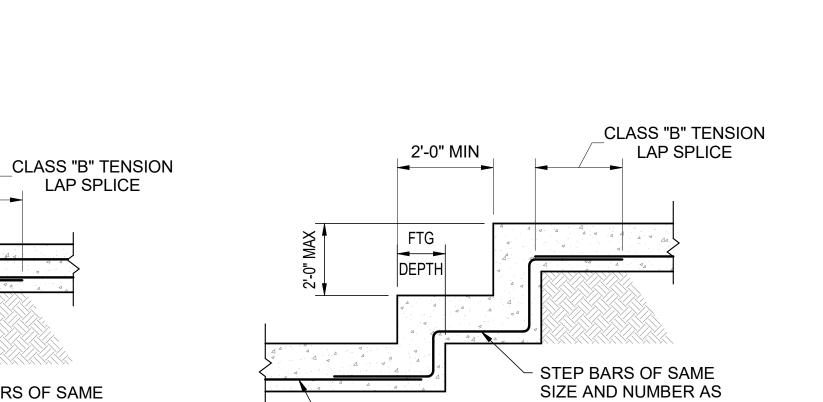
LONGITUDINAL STEEL

Footing Step Detail







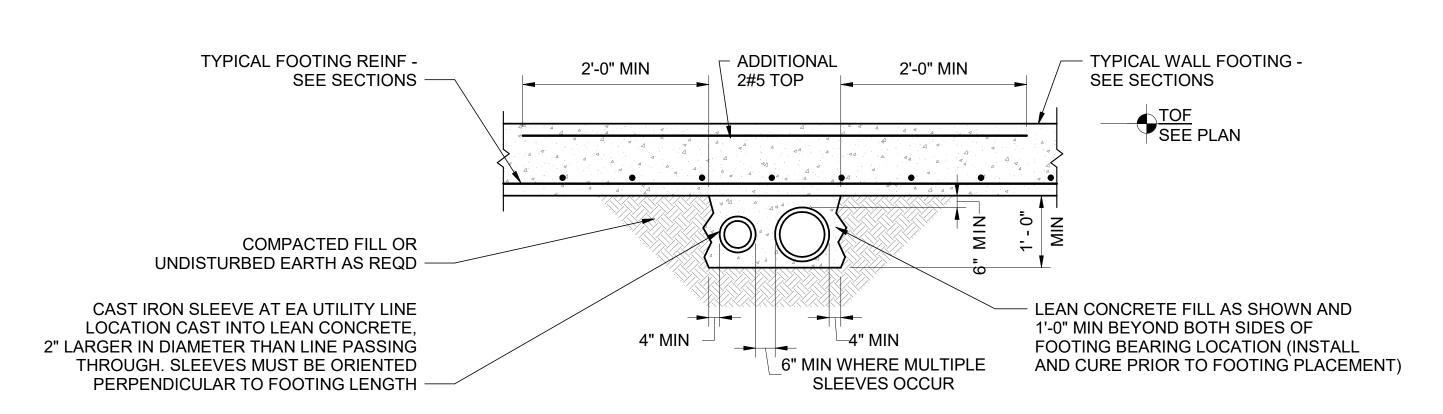


otina	Step	Detail	

LONGITUDINAL STEEL

	Anchor Rod edment Lengths
BOLT DIA	MIN EMBEDMENT
5/8 & 3/4"	9"
1"	12"
1 1/4"	15"
1 1/2"	18"

ANCHOR RODS TO BE F1554 HEADED.



Typical Detail for Utilities Passing Below Wall Footings

- 1. CONTRACTOR'S OPTION TO STEP FOOTINGS BELOW UTILITIES IN LIEU OF THIS DETAIL.
- 2. COORDINATE UTILITY LOCATIONS W/ CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- 3. UTILITIES SHALL NOT PASS BELOW COLUMN FOOTINGS.

Tension Lap Splice Lengths						
		f _C = 40	000			
BAR SIZE	TOP E	BARS	OTHER	BARS		
	Α	В	Α	В		
#3	19"	24"	15"	19"		
#4	25"	32"	19"	25"		
#5	31"	40"	24"	31"		
#6	37"	48"	29"	37"		
#7	54"	70"	42"	54"		
#8	62"	80"	48"	62"		
#9	70"	91"	54"	70"		
#10	79"	102"	61"	79"		
#11	87"	113"	67"	87"		

- 1. THIS TABLE CONTAINS DEVELOPMENT AND SPLICE LENGTHS FOR NORMAL-WEIGHT CONCRETE SLABS ONLY.
- 2. ALL DEVELOPMENT/SPLICE LENGTHS ARE IN INCHES (IN.). 3. Ld = TENSION DEVELOPMENT LENGTH, PER CHAPTER 12 OF ACI 318.
- 4. TABLE SHALL APPLY WHEN ACI 318 MINIMUM COVER IS PROVIDED (THE GREATER OF 0.75" AND db) AND THE CENTER-TO-CENTER BAR SPACING IS >3*db.
- 5. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW THE REINFORCEMENT.

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Auburn, AL 36832
Phone (334) 734-0403
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LBYD, Inc.
Civil and Structural Engineers
1100 South College Street

Architecture, PC 445 Dexter Avenue Suite 5050 P.O. Box 1706

Montgomery, Al 36104 Phone: (334) 420-5672 Fax: (334) 420-5692



FMTC SOLDIER TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION **DOCUMENTS**

Project Number: 22-1165 31 AUGUST 2022 Revisions:

Sheet Description

TYPICAL DETAILS

BI.D-S1.3



445 Dexter Avenue Suite 5050 P.O. Box 1706

Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692

Architecture, PC

SOLDIER TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA

FMTC

IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

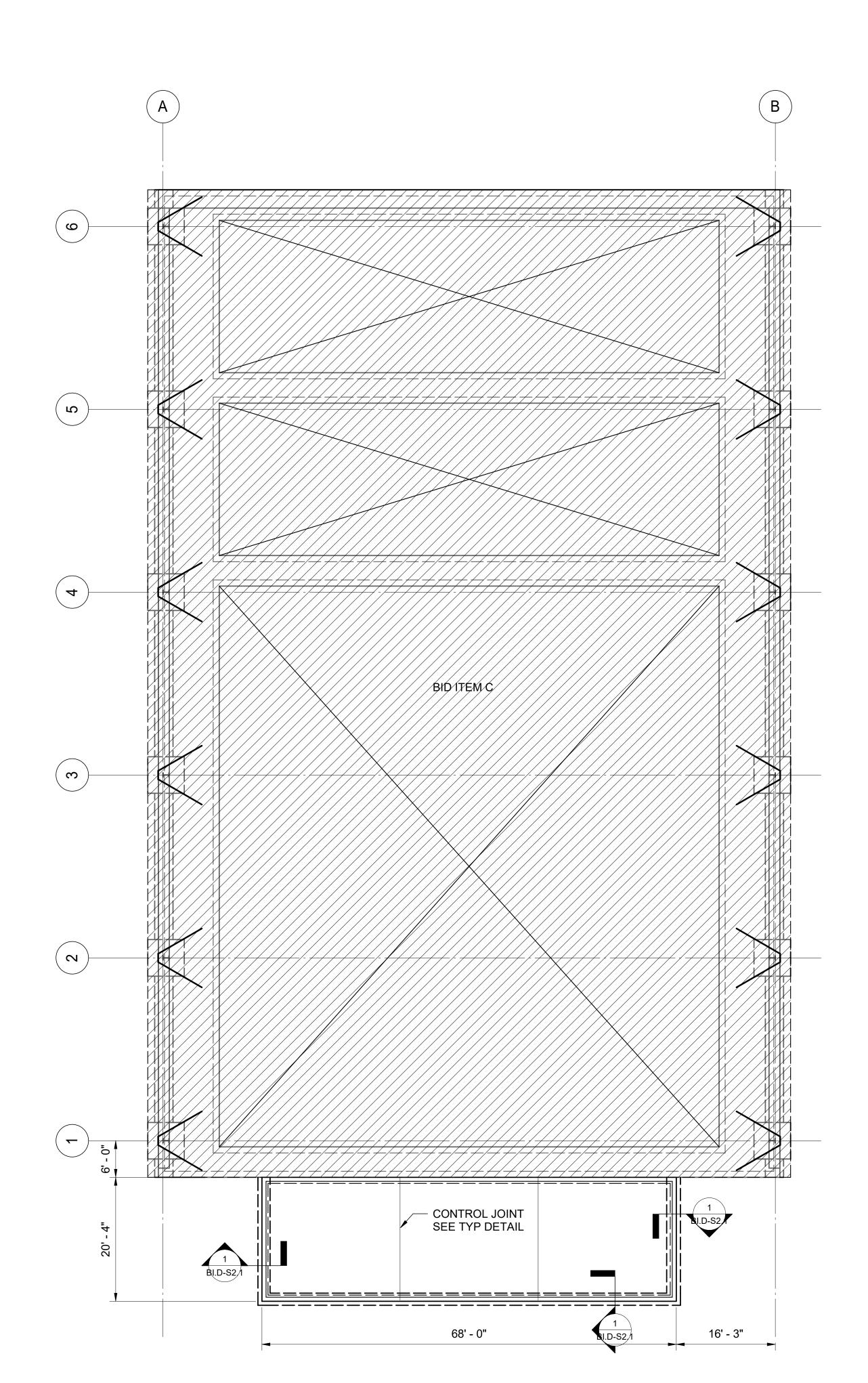
31 AUGUST 2022

Sheet Description

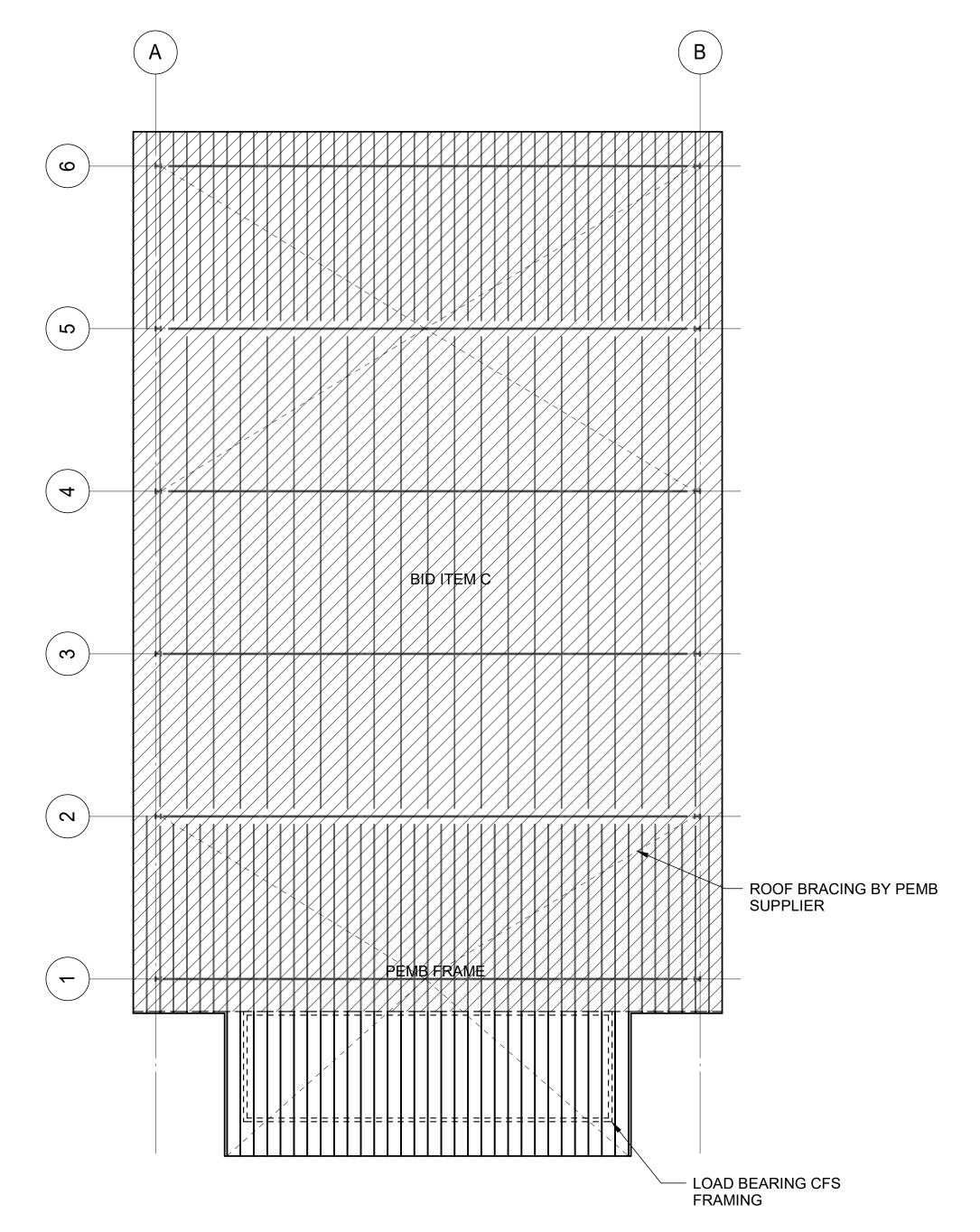
BID ITEM D -FITNESS TRAINING CENTER PLANS AND DETAILS

Sheet Number

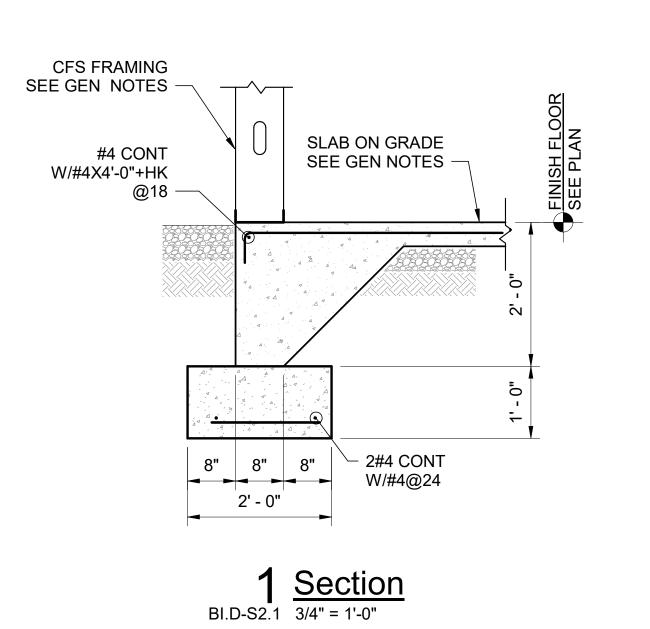
BI.D-S2.1



FITNESS TRAINING FOUNDATION PLAN
3/32" = 1'-0"



FITNESS TRAINING ROOF PLAN
1/16" = 1'-0"



PLUMBING NOTES

THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, AND CONTROLS COMPLETELY COORDINATED WITH ALL TRADES. ALL REQUIREMENTS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.

- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS,
- 5. FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.
- . VERIFY LOCATION OF ALL FIXTURES WITH ARCHITECTURAL PLANS.
- . VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ENGINEER AND ARCHITECT.
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS/WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- PROVIDE 12"X12" ACCESS PANEL FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- ALL PIPING SHALL BE CONCEALED INSIDE WALLS, WITHIN PIPE CHASES, OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE.
- 9. COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, AND OTHER STRUCTURAL CONDITIONS. 10. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED ON DRAWINGS FINAL CONNECTION SHALL INCLUDE ANY ADAPTORS, NIPPLES, SHUT-OFF VALVES, PRV'S, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, REGULATORS, ETC.
- 1. ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCK OUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED. 12. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL DOMESTIC WATER AND SANITARY SEWERS, UNLESS OTHERWISE
- 13. ALL PLUMBING COMPONENTS TO BE LEAD-FREE.
- 14. ENCASE ALL WASTE/WATER PIPING, VALVES, WATER HEATER, OR ANY OTHER ASSOCIATED PLUMBING EQUIPMENT BELOW WALL HUNG LAVATORY, WITH TRUEBRO LAV-SHIELD (OR APPROVED EQUAL). THIS APPLIES TO ALL ADA LAVS, LAVS WITH MIXING VALVES MOUNTED BELOW LAV, AND ALL LAVS THAT INCLUDE INSTANTANEOUS ELECTRIC WATER HEATERS MOUNTED BELOW LAVS. LAV GUARD SHALL INCLUDE STAINLESS STEEL TAMPER RESISTANT SCREWS. LAV-SHIELD SHALL BE ORDERED TO MATCH SPECIFIED/APPROVED LAVATORY.
- 15. HORIZONTAL DRAINAGE PIPING OF 2-1/2" DIAMETER OR LESS SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN
- 1/4" PER FOOT. PIPING 3" AND LARGER SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8" PER FOOT. 16. SET FLOOR DRAIN ELEVATION DEPRESSED BELOW FINISHED SLAB ELEVATION AS LISTED BELOW TO PROVIDE PROPER
- FLOOR SLOPE TO DRAIN: 5 FOOT DRAIN RADIUS: 1/2" DEPRESSION 10 FOOT DRAIN RADIUS : 3/4" DEPRESSION
- 15 FOOT DRAIN RADIUS : 1" DEPRESSION
- 20 FOOT DRAIN RADIUS : 1-1/4" DEPRESSION 25 FOOT DRAIN RADIUS ; 1-1/2" DEPRESSION
- 17. ALL TRAP ARMS, P-TRAPS, ETC. EXPOSED UNDER LAVATORIES SHALL BE 18. GA. CHROME PLATED.
- 18. ABOVE GROUND DRAINAGE AND VENT PIPING LOCATED WITHIN FIRE RATED WALLS SHALL BE COPPER PIPE IN ACCORDANCE WITH STANDARDS ASTM B42 AND B302 OR CAST IRON PIPE IN ACCORDANCE WITH STANDARDS ASTM A 74; ASTM A 888; CISPI 301. COORDINATE WITH ARCHITECTURAL LIFE SAFETY PLANS FOR EXACT LOCATION OF ALL FIRE
- 19. ALL CONDENSATE DRAIN PIPING LOCATED WITHIN RETURN AIR PLENUM, SHALL BE TYPE "L" COPPER. ALL COPPER PIPING MUST BE INSULATED WITH 1/2" ARMAFLEX OR APPROVED EQUAL. PIPING CAN ALSO BE SCHEDULE 40 CPVC. ALL CONDENSATE DRAIN PIPING THAT IS NOT LOCATED WITHIN RETURN AIR PLENUM MAY BE SCHEDULE 40 PVC WITH 1/2" ARMAFLEX INSULATION (OR APPROVED EQUAL). INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH HVAC PLAN FOR REQUIREMENT AND LOCATION OF AIR PLENUM(S).
- 20. VERIFY ORIENTATION OF FLUSHING MECHANISM ON TOILET/URINAL WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
- 21. PROVIDE WATER PRESSURE REDUCING/REGULATING VALVE ON MAIN SERVICE WHEN MAIN PRESSURE EXCEEDS 75 PSI AT ANY TIME OF DAY. COORDINATE WITH LOCAL UTILITY.
- 22. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT. KITCHEN AND LAUNDRY EQUIPMENT, ETC., AS REQUIRED BY CODE AND BY LOCAL AUTHORITY. CONTRACTOR IS TO VERIFY WITH THE

LOCAL AUTHORITY THE TYPE OF BACKFLOW PREVENTION DEVICE REQUIRED FOR ALL APPLICATIONS PRIOR TO

- 23. ALL OVERHEAD WATER PIPING SHALL BE INSTALLED BELOW CEILING INSULATION.
- 24. INSTALL BACKFLOW PREVENTION IN ACCORDANCE WITH CITY AND STATE REQUIREMENTS. INSTALL ON MAIN DOMESTIC WATER SERVICE TO THE BUILDING.
- 25. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTER EQUAL TO ZURN SERIES 1700 AT EACH PLUMBING GROUP.
- 26. CONTRACTOR TO FURNISH AND INSTALL ANTI-SIPHON VALVE ON EACH WATER HEATER.
- 27. CONTRACTOR SHALL FURNISH AND INSTALL BALL VALVES FOR WATER SHUT-OFF AT FIXTURE GROUPINGS. 28. WATER HEATERS SHALL INCLUDE HEAT TRAP FITTING ON INLET AND OUTLET WATER CONNECTIONS.
- 29. ALL STOPS/SUPPLIES SHALL BE CHROME PLATED BRASS.

	MIXING VAL	VE SCHE	DULE	=
MARK NO.	MANUFACTURER'S MODEL NO.	TEMPERATURE (*F)	INLET	OUTLET
MV-1	POWERS SERIES LFLM496	SET AT 90°-110°	3/4"	3/4"
NOTES: 1. UNLE	SS OTHERWISE NOTED, MIXING VALVES SHALL CONF	FORM TO ASSE 1070 AND A	SSE 1017	

		PLUMBII	NG I	EQI	JIP	ME	NT	SC	HEDULE
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	NOTES
WC-1	WATER CLOSET FLUSH VALVE	ZURN MODEL NO. Z5655 OR APPROVED EQUAL	FLOOR	15" TO RIM	4"	2"	1 1/4"	-	WHITE ELONGATED VITREOUS CHINA, FLUSH VALVE WALL SUPPORT, WHITE OPEN FRONT SOLID PLASTIC SEAT, BOLT CAPS 12" ROUGH—IN, ZURN Z6000AV—YJ FLUSH VALVE
U-1	URINAL	ZURN MODEL NO. Z5755 OR APPROVED EQUAL	WALL	24" TO LIP	2"	1-1/4"	1"	-	WHITE VITREOUS CHINA, ZURN Z6003AV—YJ FLUSH VALVE, BOLT CAPS, WALL HANGER, 1 GAL. VERSION
L-1	LAVATORY 20"X18"	ZURN MODEL NO. Z5344 OR APPROVED EQUAL	WALL	31" TO LIP	1-1/4"	1-1/4"	1/2"	1/2"	WHITE VITREOUS CHINA, OPEN GRID STRAINER, DELTA MODEL 501-DST FAUCET, W/ 0.5 GPM AERATOR; P-TRAP W/ CLEANOUT; CONCEALED ARM CARRIER; SUPPLIES W/ STOPS
SS-1	SERVICE SINK	FIAT MODEL NO. MSB-2424 OR APPROVED EQUAL	FLOOR	SEE DETAIL	3"	2"	1/2"	1/2"	MOLDED-STONE, DELTA NO. 28C2383, 3" IPS STRAINER, POLISHED CHROME FAUCET WITH VACUUM BREAKER, HOSE/ WALL BRACKET, MOP HANGER
EQUALS	BY ELJER, KOHLER, TO	DTO, AND AMERICAN STANDARD WILL BE ACCEF	PTED.						

	PLUMBING SPECIALITY SCHEDULE									
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	MIXED WATER SIZE	NOTES
FD-1	FLOOR DRAIN	ZURN MODEL NO. ZN-415B-P OR APPROVED EQUAL	FLOOR	-	4"	2"	-	-	-	5" DIA. NICKEL BRONZE ADJUSTABLE TOP W/ PROSET SYSTEM INC. TG34IP RETROFIT TRAP GUARD
WH-1	WALL HYDRANT	WOODFORD MODEL NO. B65 OR APPROVED EQUAL	WALL	18" TO 24"	-	ı	3/4"	-	ı	FREEZELESS, ANTI-SIPHON, LOCKING BOX
F.C.O.	FLOOR CLEANOUT	ZURN MODEL NO. ZN-1400-2 OR APPROVED EQUAL	FLOOR	_	4"	ı	-	-	ı	6" DIA. ADJUSTABLE NICKEL BRONZE TOP
W.H.A.	WATER HAMMER ARRESTOR	ZURN SERIES 1700 OR APPROVED EQUAL	-	_	1	-	VARIES	VARIES	-	
EQUA		IRN, OATEY, OR JONES WILL BE ACCEPTE	D							

		OUTDOOF	R DF	RINK		G F	OU	INT	AIN SCHEDULE
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	NOTES
DF-1	DRINKING FOUNTIAN SPLIT LEVEL, ADA	HAWS MODEL 1109FR OR APPROVED EQUAL	WALL	REFERENCE DETAIL	1-1/4"	1-1/4"	1/2"	-	STAINLESS STEEL; FREEZE—RESISTANT; REMOTELY MOUNTED PLUMBING BOX LOCATED IN HEATED SPACE; DFC—1 REMOTE CHILLER (SEE DETAIL)
BF-1	BOTTLE FILLER, ADA	HAWS MODEL 1920FR OR APPROVED EQUAL	WALL	47-1/2" BUTTON HEIGHT	1-1/4"	1-1/4"	1/2"	-	STAINLESS STEEL; FREEZE-RESISTANT; MOUNTED ABOVE DF-1 HAWS 1109FR ADA
EQUAL	S BY ELJER, KOHLER	, TOTO, AND AMERICAN STANDARD W	ILL BE ACCE	PTED.		-			

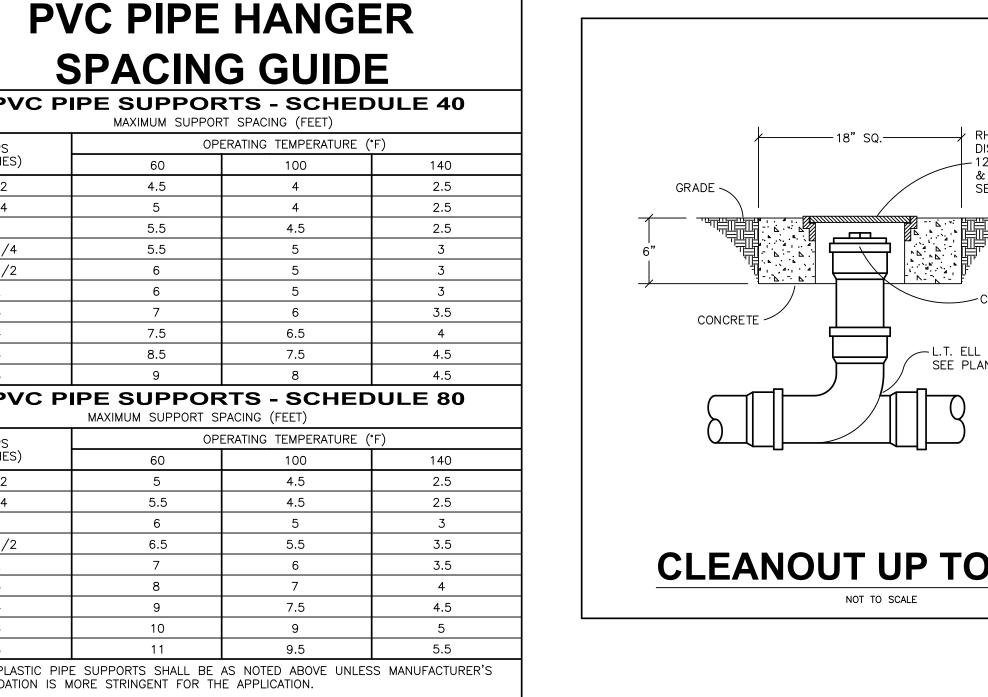
		ELECTRI	C W	ATE	R H	EATE	ER S	CHI	EDULE
MARK	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	SIZE	VOLTAGE	WATTS SIZE	DIMENSIONS	C.W. INLET	H.W. INLET	NOTES
EWH-1	ELECTRIC WATER HEATER LOW BOY	A.O. SMITH MODEL NO. DEL-30 OR APPROVED EQUAL	30 GAL.	240 1 PHASE	4,500	21-3/4"ø 30-7/8"H	3/4"	3/4"	UPPER AND LOWER 4,500 WATT NON-SIMULTANEOUS ELEMENTS ASHRAE 90.1 COMPLIANT; SIDE CONNECTIONS
EQUA		M, OR A. O. SMITH WILL BE ACCEPTED)	<u>I</u>	<u> </u>	<u> </u>	l		

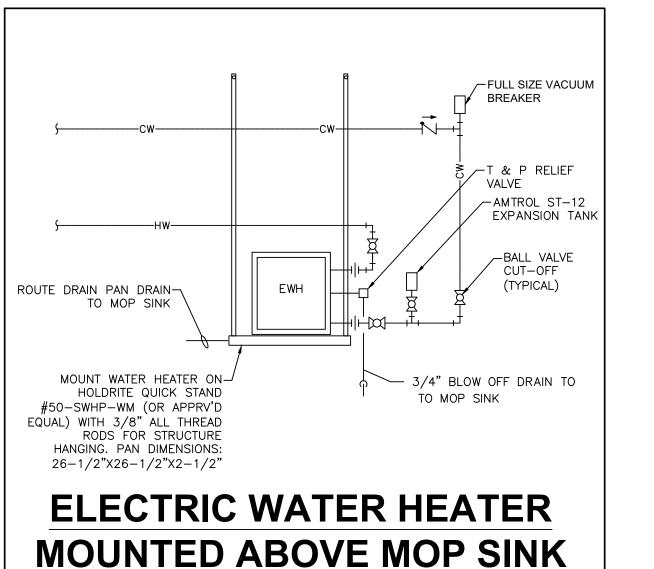
PL	UMBING	LEG	END
—— ss ——	SANITARY SEWER	•	FLOOR DRAIN
—— SD ——	STORM DRAIN, RAINWATER DRAIN	0	HUB DRAIN
CD	CONDENSATE DRAIN	S <u>V</u> เป็	BALL VALVE
cw	COLD WATER	-8	GAS COCK
——110°——	110° HOT WATER		CHECK VALVE
140 *	140° HOT WATER	OI	RISER DOWN (ELBOW)
v	VENT	@ I	RISER UP (ELBOW)
—— NG ——	NATURAL GAS	J	90° ELBOW
xss	EXISTING SANITARY SEWER		TEE
xcw	EXISTING COLD WATER	<u></u>	CROSS
хнw	EXISTING HOT WATER	- └ VTR	VENT THRU ROOF
——XNG——	EXISTING NATURAL GAS	•	CONNECT TO EXISTING

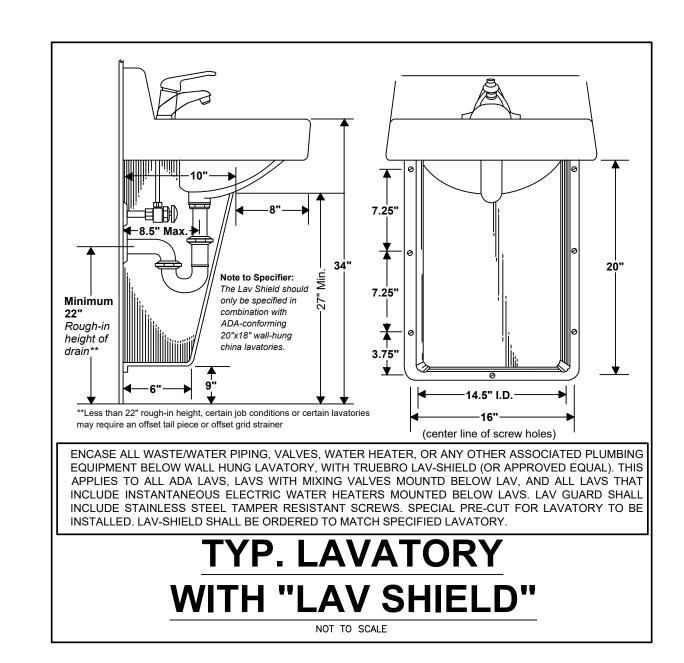
CODES AND STANDARDS

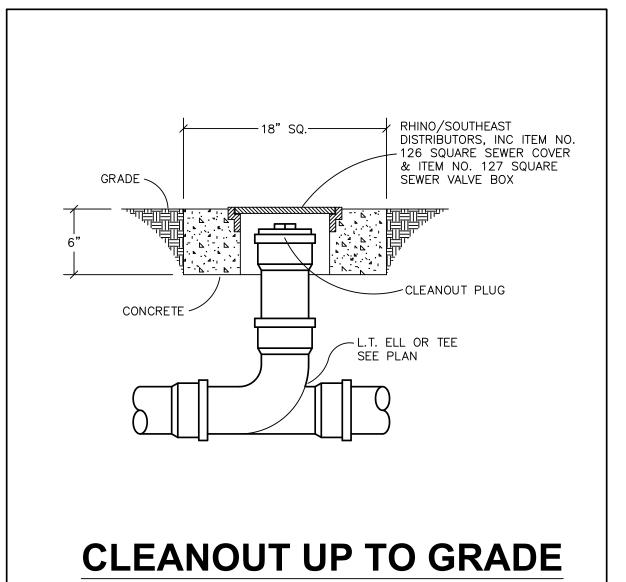
- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL FIRE CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

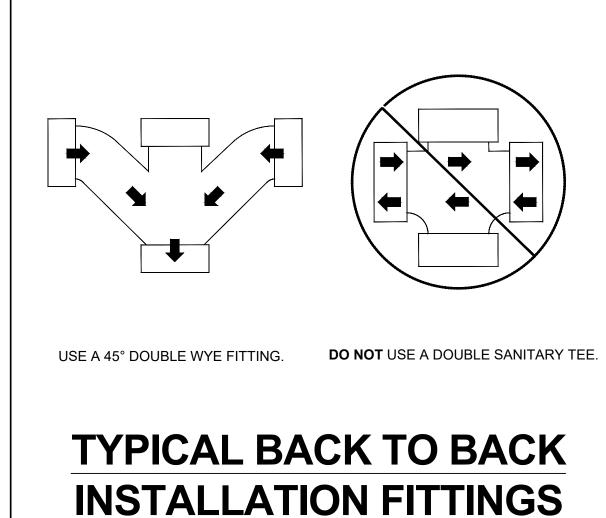
PVC PI		RTS - SCHE	DULE 40
		RT SPACING (FEET) ERATING TEMPERATURE	(°F)
NPS (INCHES)	60	100	140
1/2	4.5	4	2.5
3/4	5	4	2.5
1	5.5	4.5	2.5
1-1/4	5.5	5	3
1-1/2	6	5	3
2	6	5	3
3	7	6	3.5
4	7.5	6.5	4
6	8.5	7.5	4.5
8	9	8	4.5
PVC PI	PE SUPPOR MAXIMUM SUPPORT S	RTS - SCHED PACING (FEET)	DULE 80
NPS	OP	ERATING TEMPERATURE	(°F)
(INCHES)	60	100	140
1/2	5	4.5	2.5
3/4	5.5	4.5	2.5
1	6	5	3
1-1/2	6.5	5.5	3.5
2	7	6	3.5
3	8	7	4
4	9	7.5	4.5
6	10	9	5
8	11	9.5	5.5

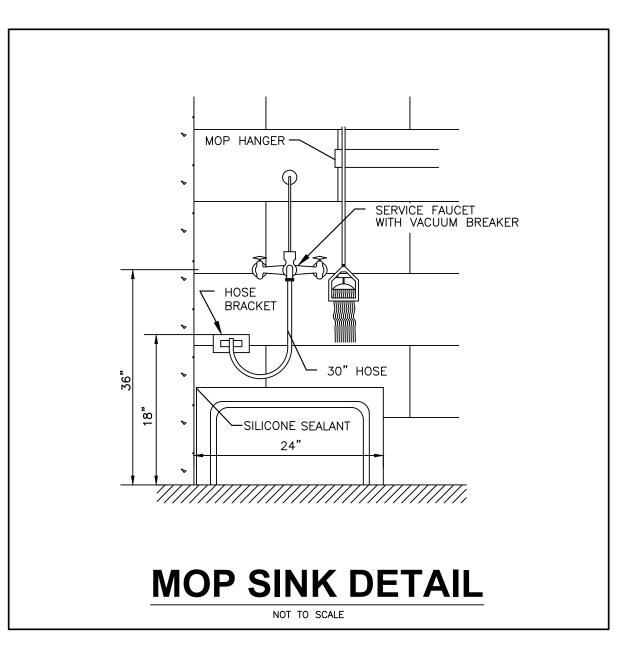












PLUMBING DRAWING INDEX

LON	
SHEET NO.	SHEET TITLE
BI.D/P1.1	PLUMBING SCHEDULES, LEGEND, NOTES AND DETAILS
BI.D/P1.2	PLUMBING DETAILS
BI.D/P1.3	PLUMBING DETAILS
BI.D/P1.4	PLUMBING DETAILS
BI.D/P2.1	WASTE & CONDENSATE PLUMBING PLAN
BI.D/P3.1	WATER PLUMBING PLAN

CONSTRUCTION DOCUMENTS

Architecture, PC

445 Dexter Avenue

Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692

> TIMOTHY R. HOLMES

FMTC

SOLDIER

FITNESS

TRAINING AND

TESTING

FACILITY

FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

Suite 5050

Project Number: 31 AUGUST 2022

Revisions:

PLUMBING SCHEDULES, LEGEND, NOTES AND DETAILS

Sheet Description

Sheet Number

BI.D/P1.1

PLUMBING SCHEDULES, LEGEND, NOTES AND DETAILS

WHORTON ENGINEERING, INC 25 SUMMERALL GATE ROAD

WHORTON ENGINEERING PROJECT NO. 22158



FEATURES & BENEFITS

CONSTRUCTION

Unit is made of 18 gauge Type 304 stainless steel with a satin finish that resists stains and corrosion, and has soft, rounded corners. Unit features stainless steel satin finish back panel, vandal-resistant bottom plate, and 1-1/4" integral trap.

FREEZE-RESISTANT VALVE

Fully engineered system with the pneumatic-operated, freeze-resistant valve mounted in a cabinet that is installed on the inside wall where room temperature does not drop below 50° F (10° C). When valve goes to off position, water left in supply line between valve and bubbler drains back into waste inside cabinet, protecting the unit from freezing, and allowing fountain to function year-round.

BUBBLER HEAD

Polished chrome-plated brass bubbler head with integral 11/16" dia. basin shank and stainless anti-rotation roll pin for vandal resistance strength. Shielded, angled stream opening provides a steady, sanitary source of drinking water at .45 gpm.

VANDAL-RESISTANT

The bubbler head, push button, drain strainer and bottom plate are locked in place, discouraging unwanted vandal tampering.

OPTIONS

Freeze-Resistant Bottle Filler: Model 1920FR, freeze-resistant bottle filler can be a stand-alone wall mounted station, or mounted over the 1109FR & 1119FR series fountains.

Support Frame: Model 6800 universal in-wall mounting support for use with most fountains.

Mounting Plate: Model 6700 universal mounting plate for most wall mounted fountains. Priced Separately.

Back Panel: Model BP3, satin finish stainless steel back

For more information, visit www.hawsco.com or call (888)



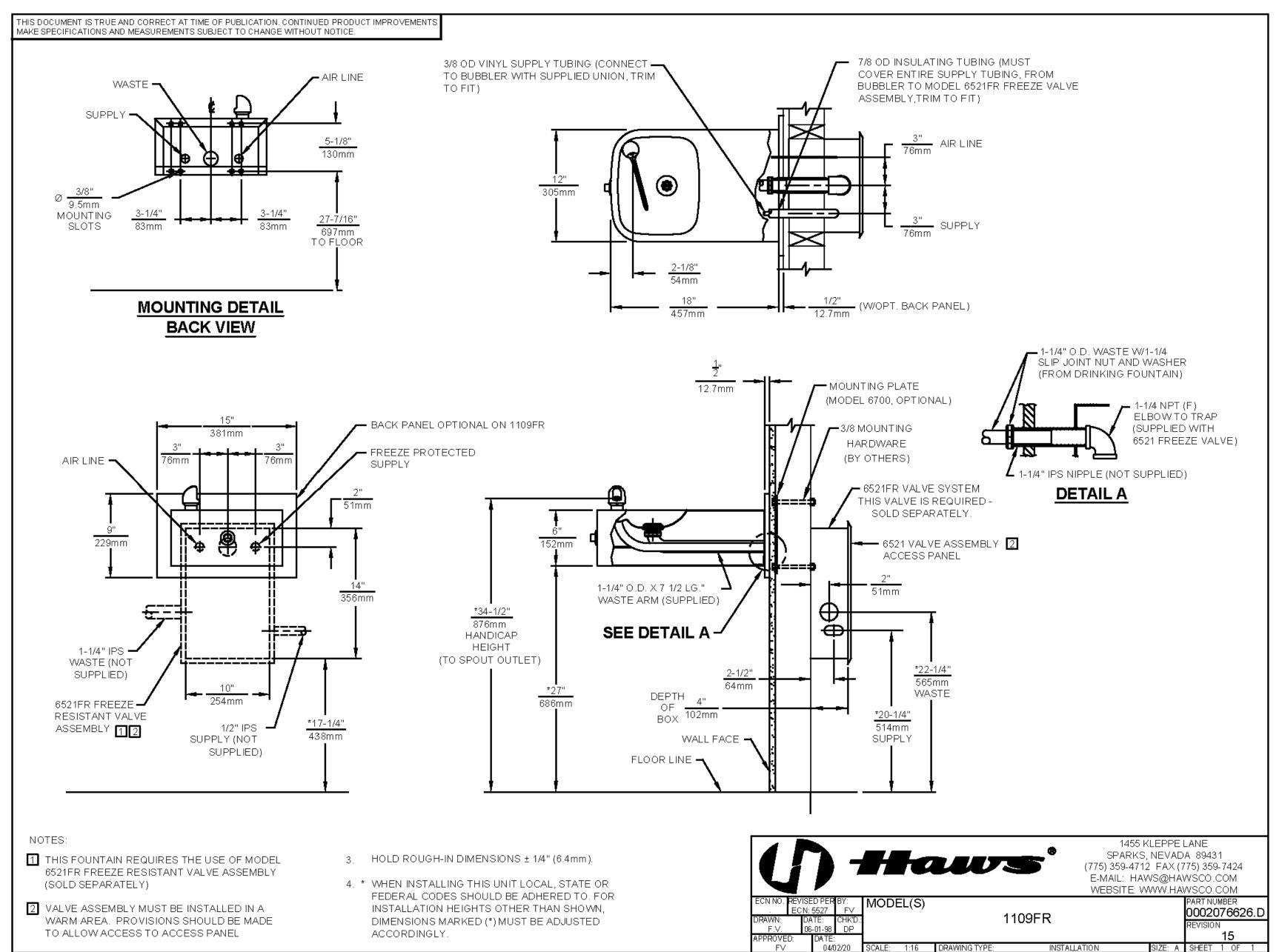
SPECIFICATIONS

Model 1109FR wall mounted vandal-resistant barrier-free drinking fountain shall include an 18 gauge Type 304 Stainless Steel satin finish basin, polished chrome-plated brass vandalresistant bubbler head, vandal-resistant polished chromeplated brass push-button which a pneumatic valve installed on the inside wall where room temperatures do not drop below 50° F (10° C), self-draining water lines which protect the unit from freezing, polished chromeplated brass vandal resistant waste strainer, vandalresistant stainless bottom plate, and 1-1/4" O.D. (3.2 cm) waste pipe.

REQUIRES MODEL 6521FR PRICED SEPARATELY.

APPLICATIONS

Perfect for either public or private outdoor settings, Model 1109FR is a great fit in areas where aesthetics are important to the overall appeal of the architecture. Beautiful satin finish helps to maintain the fountains overall appeal. Specifically, this type of wall mounted drinking fountain may be placed in settings such as: parks, schools, and other facilities where the temperature may drop into freezing conditions. Model meets all current Federal Regulations for the disabled including those in the Americans with Disabilities Act. Haws manufactures drinking fountains, faucets and electric water coolers to be lead-free by all known definitions including NSF/ANSI/CAN 61-Section 9, NSF/ANSI/CAN 372, California Proposition 65, and the Federal Safe Drinking Water Act. Product is compliant to California Health and Safety Code 116875 (AB 1953-2006), and NSF/ANSI/CAN 61: Q ≤ 1.



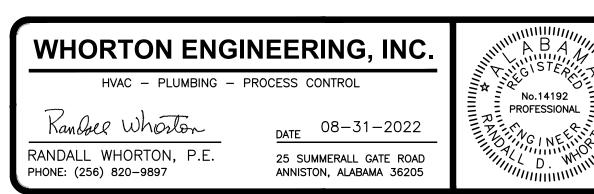
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DF-1 ADA OUTDOOR DRINKING FOUNTAIN DETAIL

PLUMBING DETAILS NOT TO SCALE



WHORTON ENGINEERING PROJECT NO. 22158

Phone: (334) 420-5672 Fax: (334) 420-5692

TIMOTHY R.

Architecture, PC

JMR+H

Suite 5050

445 Dexter Avenue

Montgomery, Al 36104

FMTC SOLDIER **FITNESS**

TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

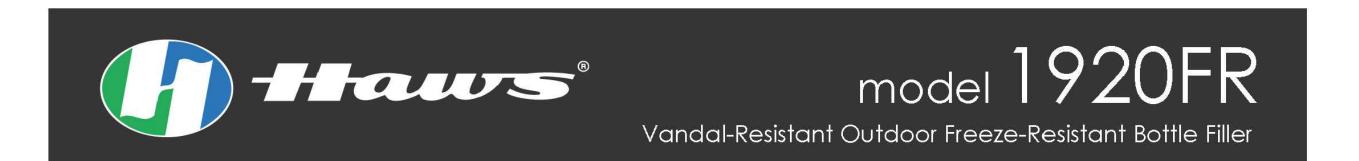
Project Number: 31 AUGUST 2022

PLUMBING **DETAILS**

Sheet Description

Sheet Number

BI.D/P1.2



FEATURES & BENEFITS

CONSTRUCTION

Unit is made of 14 gauge Type 304 stainless steel with a satin finish that resists stains and corrosion, and has soft rounded corners. Unit features vandal-resistant bottom plate and dispensing nozzle.

EFFICIENT & FLEXIBLE INSTALLATION

Unit is designed for retrofit or new construction applications. No drain required for mounting over existing drinking fountain.

DURABLE BUILD

Good for outdoor applications where the unit may encounter freezing conditions. Made with 100% Stainless Steel for vandal resistance.

MOUNTING OPTIONS

640-4297.

Select from mounting plate and back panel models to complete installation. Unit can mount on various wall types.

VANDAL-RESISTANT The push button and bottom plate are locked in place,

discouraging unwanted vandal tampering.

OPTIONS

Back Panel: Model BP15, satin finish stainless steel 15 inch back panel for Model 1920.

logo panel with customization options. Mounting Plate: Model 6700 universal mounting plate for

Custom Logo Panel: Model 6475, Hydration By Haws™

For more information, visit www.hawsco.com or call (888)

most wall mounted fountains. Priced Separately.



SPECIFICATIONS

Model 1920FR vandal-resistant wall mounted freeze-resistant bottle filler can be a stand-alone wall mounted station, or mounted over the 1109FR & 1119FR series fountains. It shall include stainless steel construction, a polished chromeplated brass push-button operated by a pneumatic valve installed on the inside wall where room temperatures do not drop below 50° F (10° C), and self-draining water lines which protect the unit from freezing.

REQUIRES MODEL 6521FR PRICED SEPARATELY

APPLICATIONS

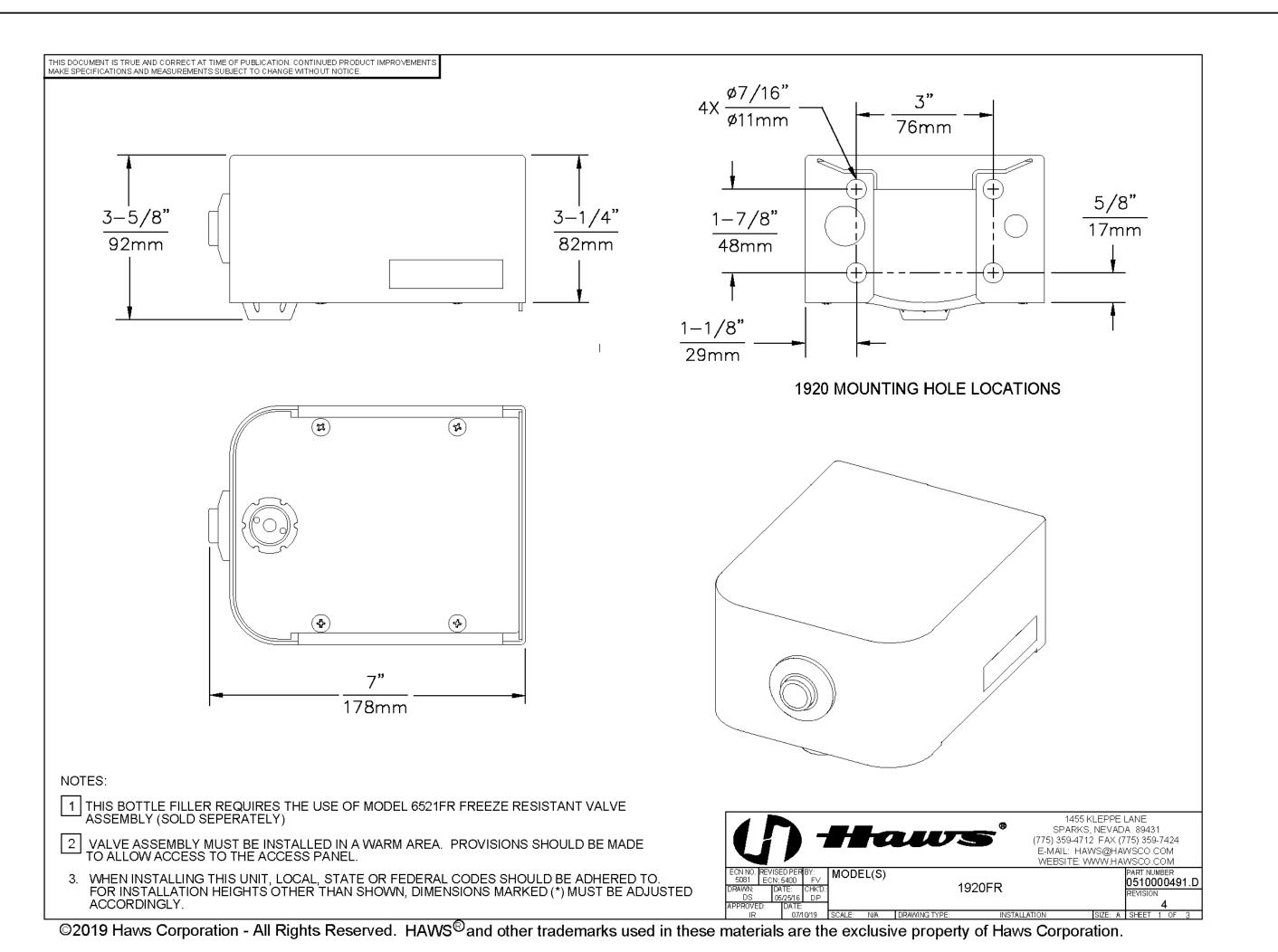
116875 (AB 1953-2006), and NSF/ANSI/CAN 61: $Q \le 1$.



This type of wall mounted bottle filler may be placed in settings such as schools, parks and other outdoor locations where the freezing temperatures may exist. Haws manufactures drinking fountains, faucets and electric water coolers to be lead-free by all known definitions including NSF/ ANSI/CAN 61-Section 9, NSF/ANSI/CAN 372, California Proposition 65, and the Federal Safe Drinking Water Act. Product is compliant to California Health and Safety Code



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3/8" OD POLYPROPYLENE 7/8" OD INSULATING TUBING (MUST COVER TUBING (CONNECT TO NOZZLE ENTIRE SUPPLY TUBING, FROM THE — 6700.4L MOUNTING PLATE WITH SUPPLIED PUSH IN ELBOW, NOZZLE TO MODEL 6521FR ASSEMBLY, (BEHIND FINISH WALL) TRIM TO FIT. TRIM TO FIT. - 1/2" NPT SUPPLY (NOT SUPPLIED) 6700R RETROFIT PLATE (ON TOP OF FINISH WALL) ,--- 1-1/4" NPT CONNECT AIR LINE TO BOTTLE WASTE (NOT FILLER PUSH BUTTTON, TRIM TO FIT. SUPPLIED) 6521FR FREEZE RESISTANT VALVE ASSEMBLY (FOR BF) 1 2 ACCESS PANEL 2 (47-5/8") (1210mm) 37-1/2" 34-1/2" FOR ADA 876mm COMPLIANCE 17-1/4" 438mm 39-1/2" **INSTALLATION ABOVE HAWS 1119FR** 1 THIS BOTTLE FILLER REQUIRES THE USE OF MODEL 6521FR FREEZE RESISTANT VALVE ASSEMBLY (SOLD SEPERATELY) 2 VALVE ASSEMBLY MUST BE INSTALLED IN A WARM AREA. PROVISIONS SHOULD BE MADE TO ALLOW ACCESS TO THE ACCESS PANEL. 1455 KLEPPE LANE SPARKS, NEVADA 89431 (775) 359-4712 FAX (775) 359-7424 . SEE SEPERATE INSTALLATION DRAWINGS FOR FOUNTAINS, MOUNTING PLATES, BACKPANELS, AND DRIP TRAY. HOLD ROUGH-IN DIMENSIONS± 1/8" (3.2mm) 4. WHEN INSTALLING THIS UNIT, LOCAL, STATE OR FEDERAL CODES SHOULD BE ADHERED TO. FOR INSTALLATION HEIGHTS OTHER THAN SHOWN, DIMENSIONS MARKED (*) MUST BE ADJUSTED ©2019 Haws Corporation - All Rights Reserved. HAWS® and other trademarks used in these materials are the exclusive property of Haws Corporation.

BF-1 OUTDOOR BOTTLE FILLER DETAIL

PLUMBING DETAILS NOT TO SCALE

WHORTON ENGINEERING, INC No.14192 25 SUMMERALL GATE ROAD PHONE: (256) 820-9897 ANNISTON, ALABAMA 36205

JMR+H

Suite 5050

445 Dexter Avenue

Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692

TIMOTHY R.

FMTC

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FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

Architecture.PC

DOCUMENTS Project Number:

CONSTRUCTION

31 AUGUST 2022

PLUMBING **DETAILS**

Sheet Description

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WHORTON ENGINEERING PROJECT NO. 22158



model HCR8 Remote Drinking Fountain Water chiller

FEATURES & BENEFITS

CONSTRUCTION

Constructed of heavy gauge galvanized steel, its compact style can be concealed under a counter, and between or within walls.

CHILLED WATER

Efficient compact design provides 8 gallons (30.3 L) per hour of 50° F (10° C) cold water to a wide variety of fountains.

OPTIONS

■ Shelf: Model H7149MS, mounting shelf for remote chillers.

For more information, visit www.hawsco.com or call (888) 640-4297.

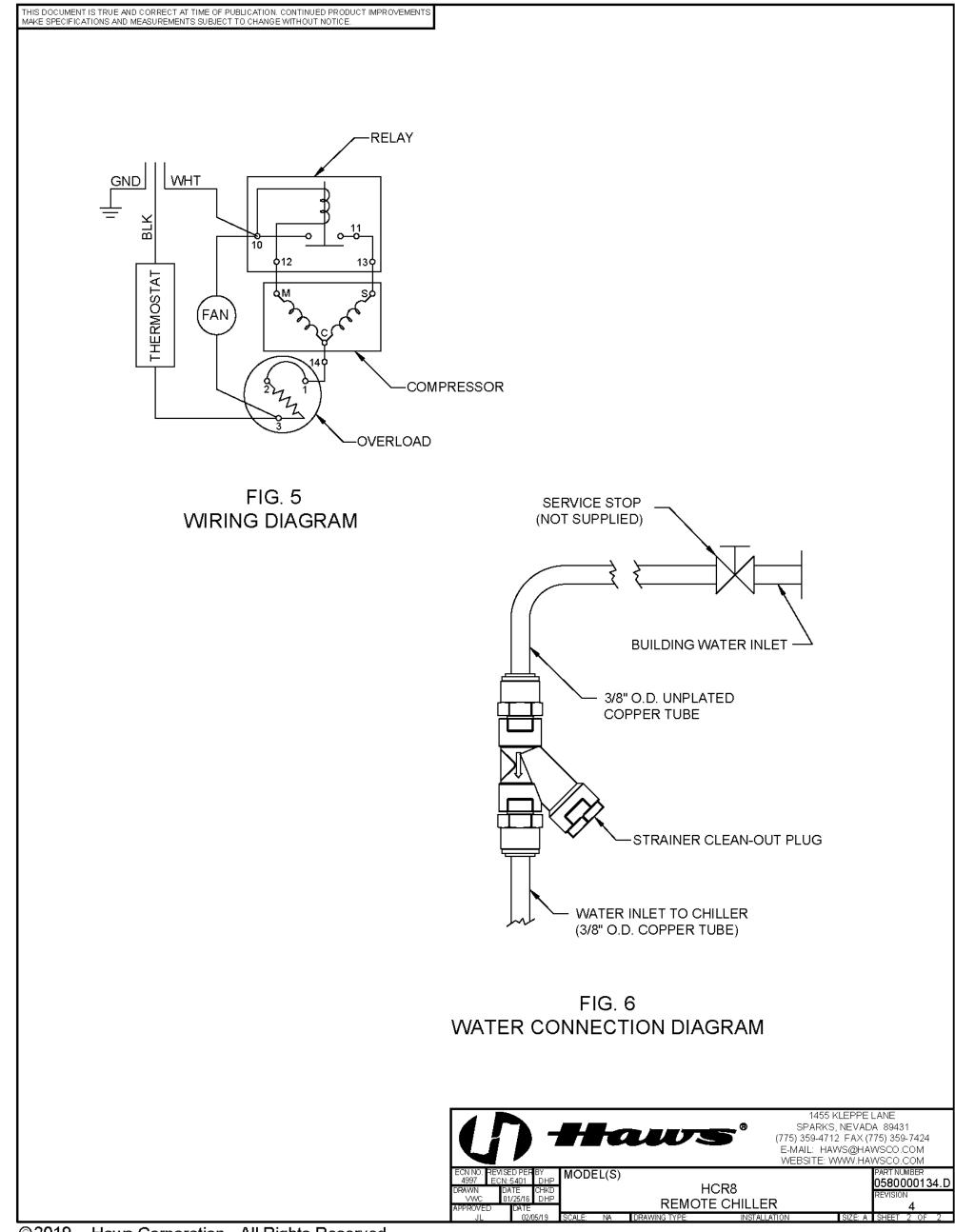


SPECIFICATIONS

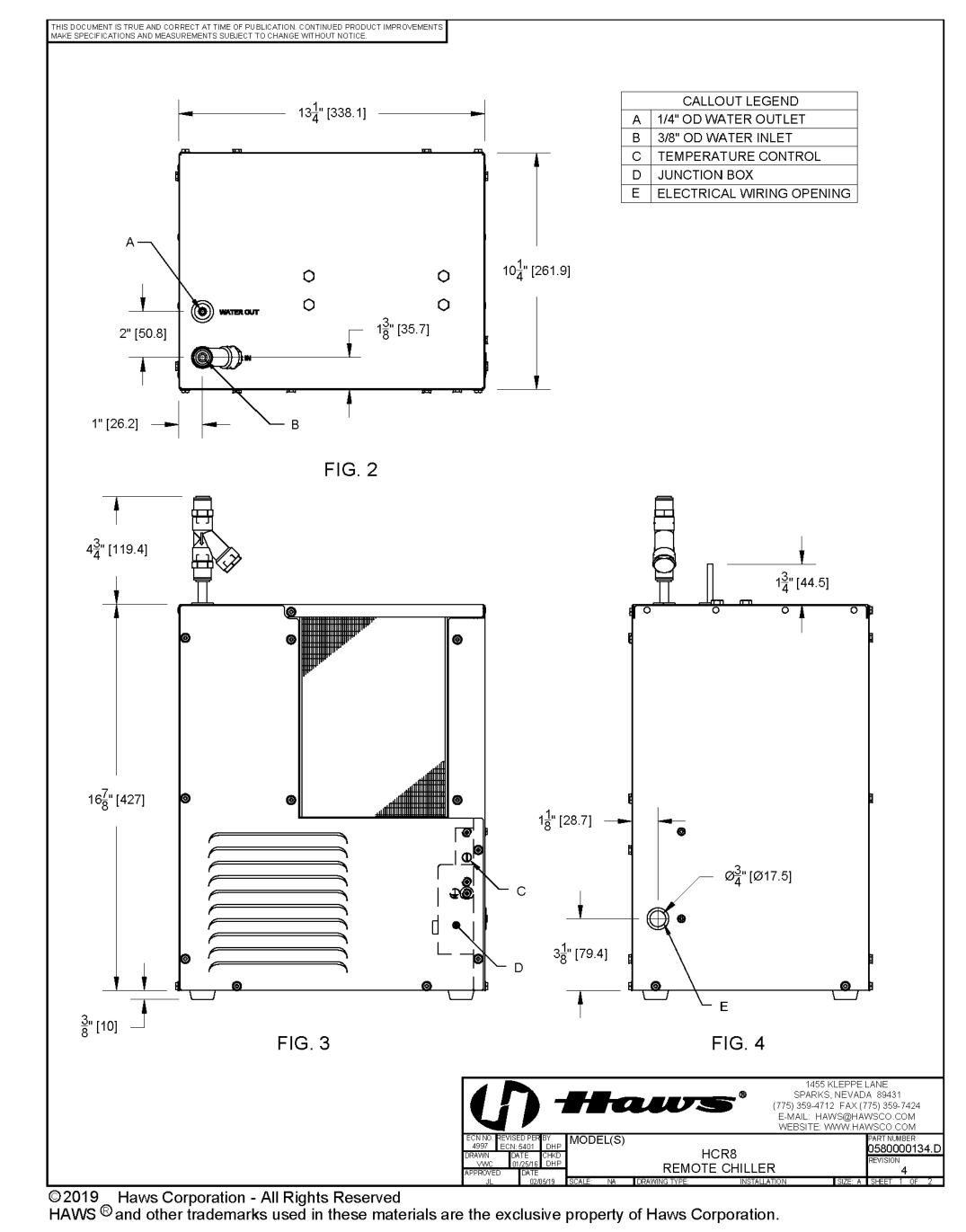
Model HCR8 remote chiller is a hermetically sealed R-134a refrigeration system and is capable of supplying water to a maximum of 2 bubbler stations and is designed to provide 8 gph (30.3 L) of water at 50° F (10° C) +/- 5°. The unit is rated at 115V, 60Hz, and 5 amps. NOTE: For remote installations; locate unit no more than 8ft (2.4m) away from fixtures which it supplies. Chilled water tubing/piping run must be covered with appropriate insulation in order to conserve temperature and avoid condensation.

APPLICATIONS

This remote chiller can provide 8 gallons per hour of 50° F+/-5° cold water to a wide variety of fountains. Specifically, this type chiller may be used in conjunction with a fountain in settings such as: schools, office buildings, shopping malls, and other indoor environments where there is a demand for a chilled water source. Electric water coolers are not recommended or designed for outdoor applications or enclosed pool areas (chlorine). These conditions may void warranty. Haws manufactures drinking fountains, faucets and electric water coolers to be lead-free by all known definitions including NSF/ANSI/CAN 61-Section 9, NSF/ANSI/ CAN 372, California Proposition 65, and the Federal Safe Drinking Water Act. Product is compliant to California Health and Safety Code 116875 (AB 1953-2006), and NSF/ ANSI/CAN 61: Q \leq 1. It complies with ASHRAE 18 compliant chilling capacity, and is listed by Underwriter Laboratories to U.S. and Canadian standards.



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DFC-1 REMOTE DRINKING FOUNTAIN WATER CHILLER DETAIL

PLUMBING DETAILS

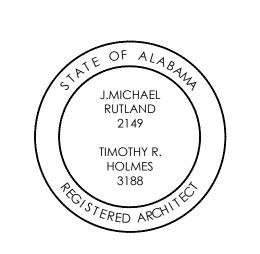
NOT TO SCALE



JMR+H Architecture,PC

> 445 Dexter Avenue Suite 5050 Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



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IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

Project Number: 22-1165

Date: 31 AUGUST 2022

Revisions:

Sheet Description

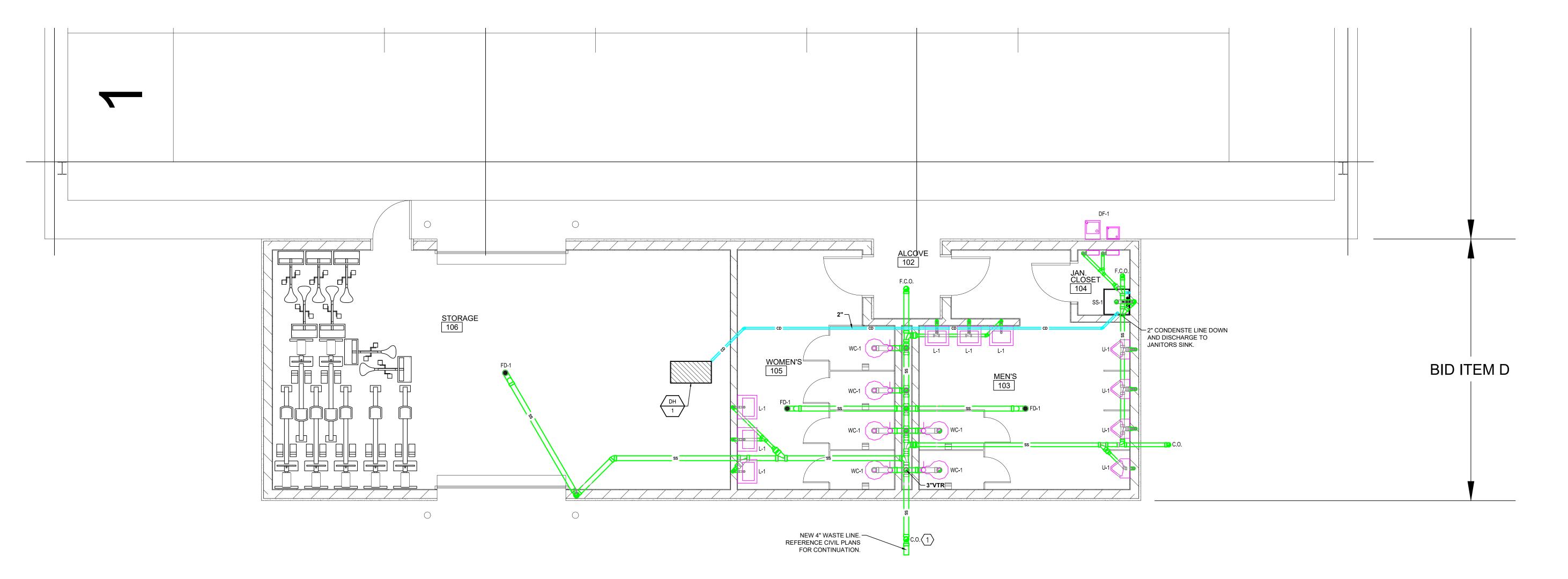
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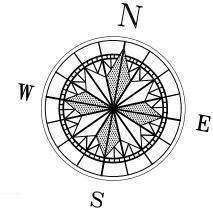
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WHORTON ENGINEERING PROJECT NO. 22158



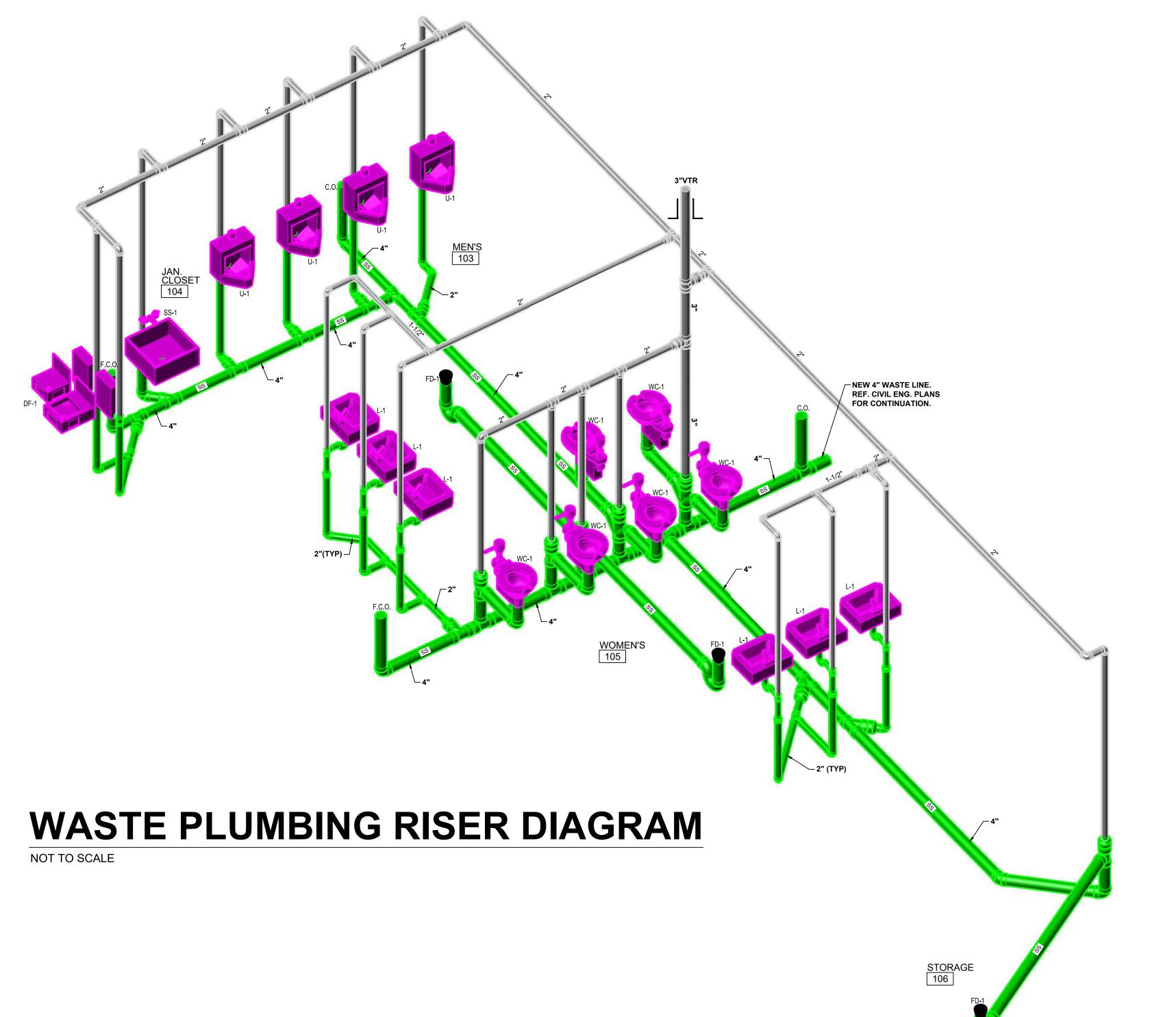


WASTE & CONDENSATE PLUMBING PLAN

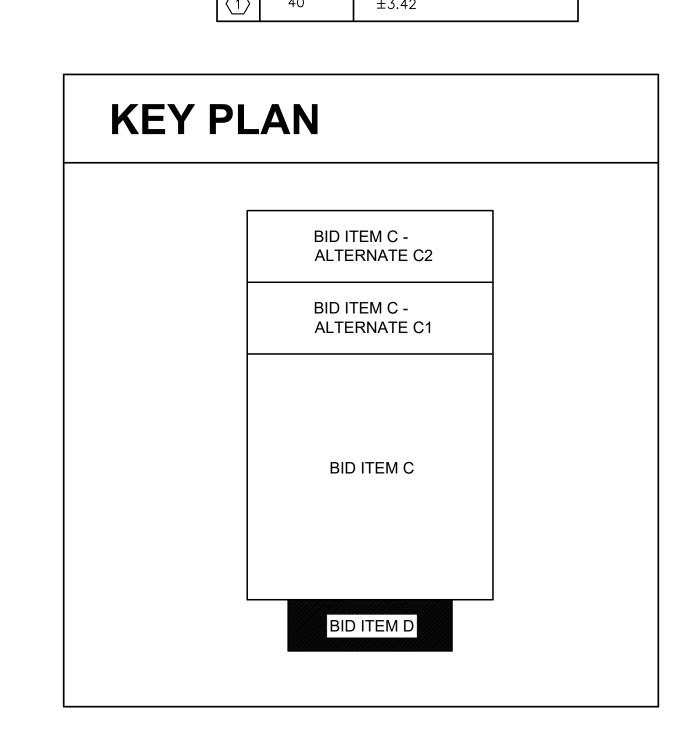
SCALE: 1/4" = 1'-0"

0 4' 8' 16'

SCALE



S	ANITA	RY OUTFALL
MARK NO.	HORIZ. LENGTH FT	EST. BFF (BELOW FIN. FLOOR) FT



WHORTON ENGI	NEERING, INC.	HILLIAN STANCE
HVAC - PLUMBING - 1 Randale Whoston	PROCESS CONTROL DATE 08-31-2022	No.14192 PROFESSIONAL PROFESSIONAL
ANDALL WHORTON, P.E. HONE: (256) 820–9897	25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205	D. WHOTHIN

445 Dexter Avenue Suite 5050 Montgomery, Al 36104 Phone: (334) 420-5672 Fax: (334) 420-5692

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IFB # AC-22-B-0038-S

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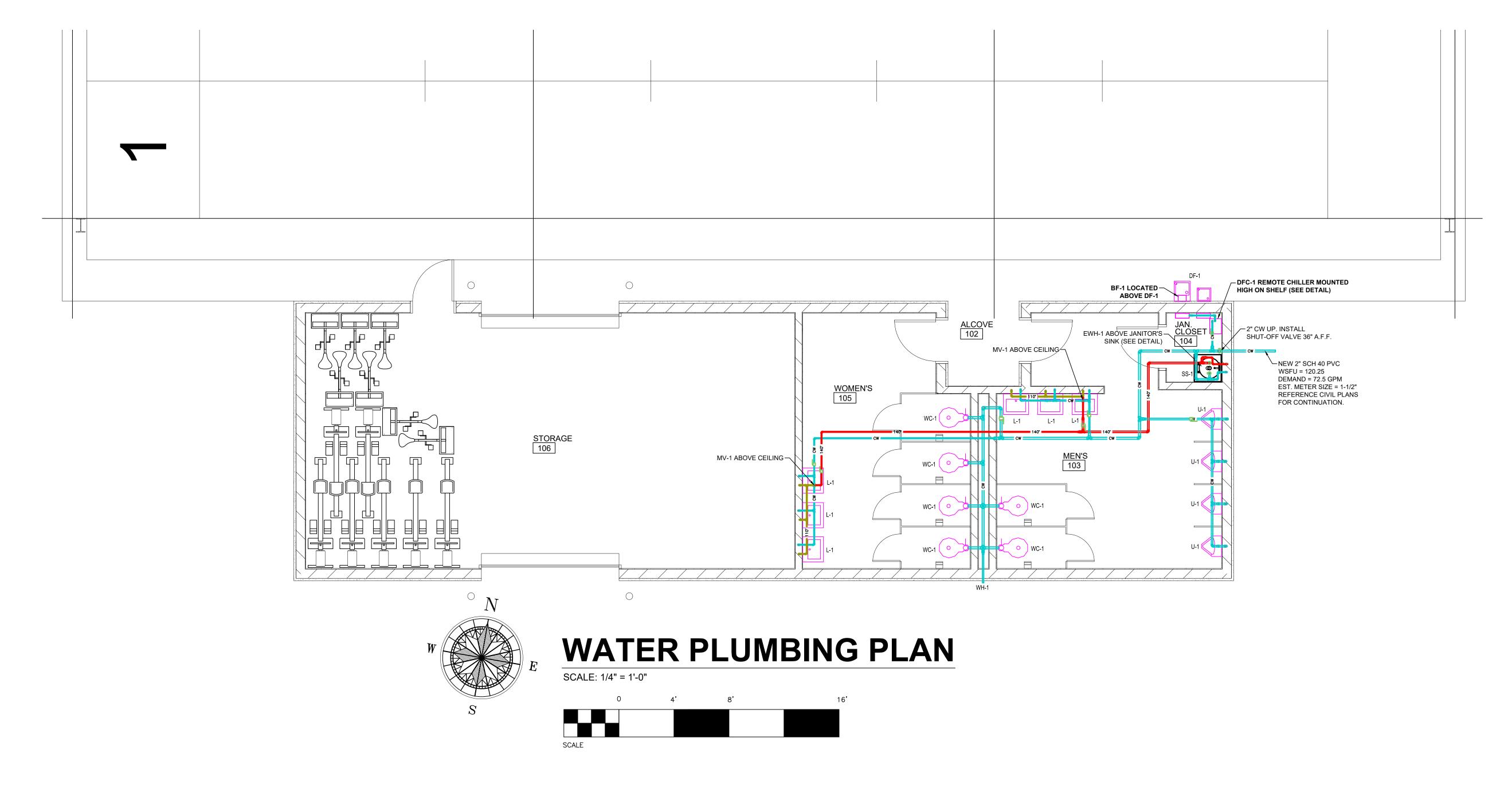
WASTE &
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PLUMBING PLAN

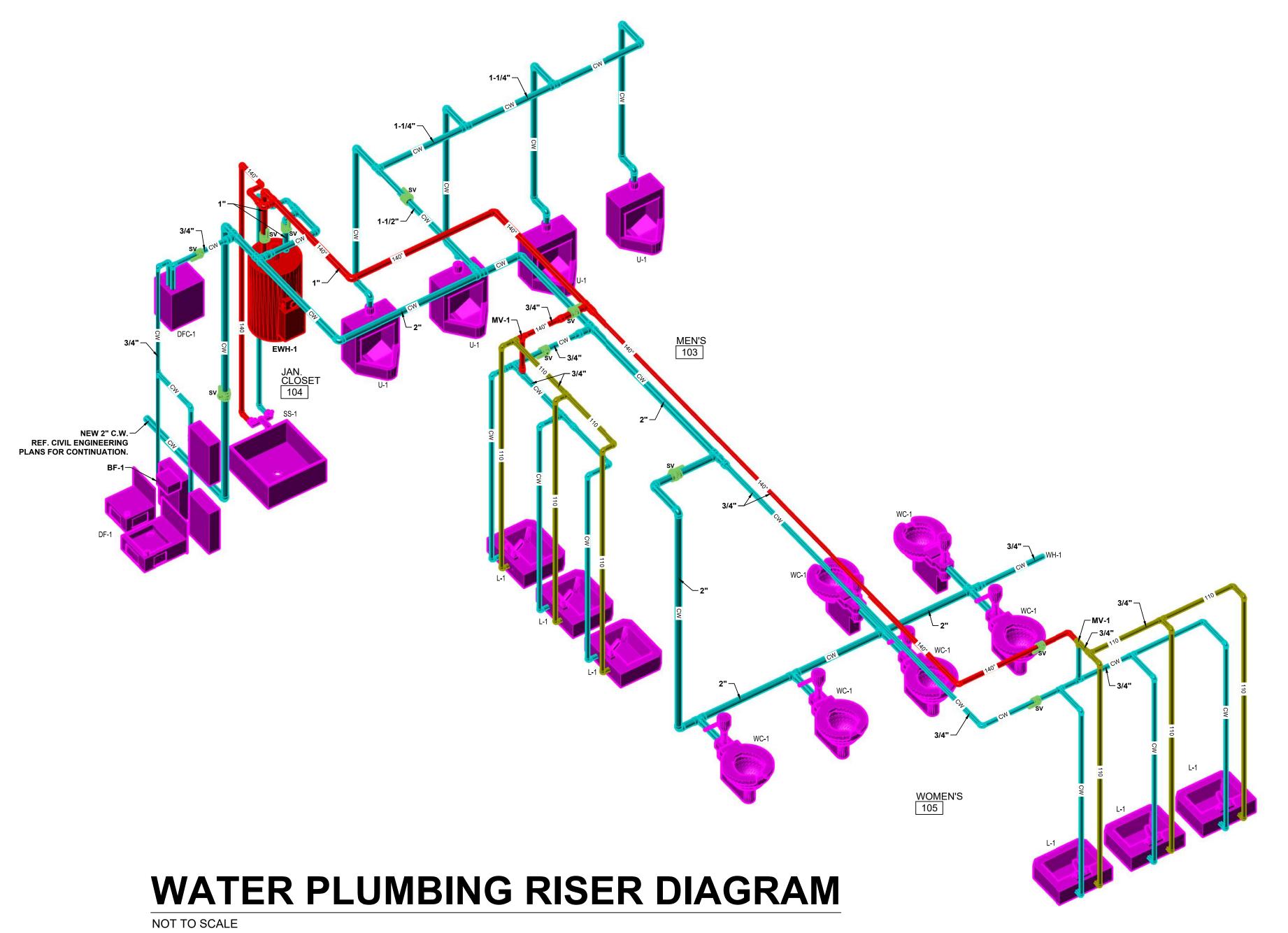
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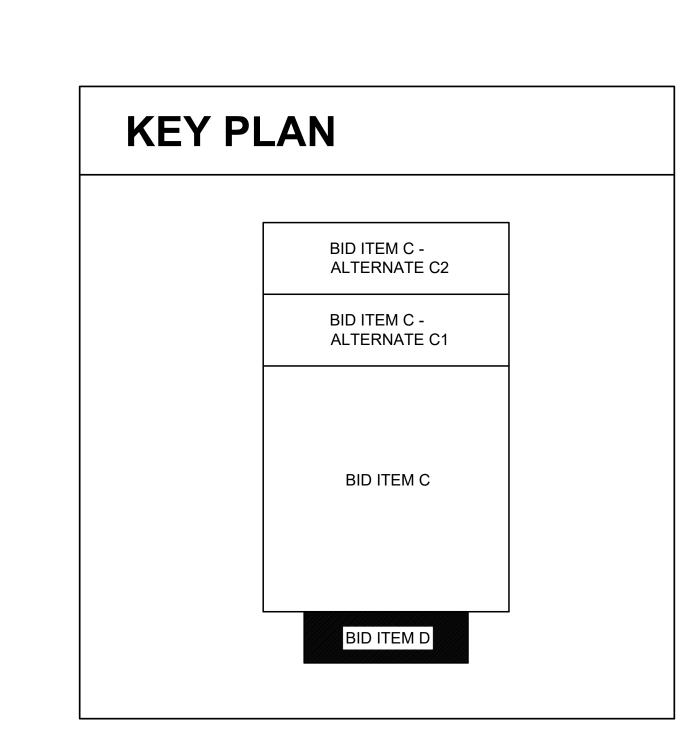
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WHORTON ENGINEERING PROJECT NO. 22158





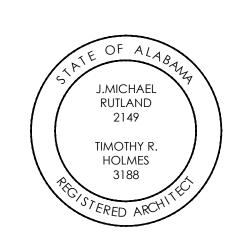


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RANDALL WHORTON, P.E. PHONE: (256) 820-9897	25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205	D. Whiting
WHORTON ENGINEERING PRO	JECT NO. 22158	

JMR+H

Architecture, PC
445 Dexter Avenue
Suite 5050
Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



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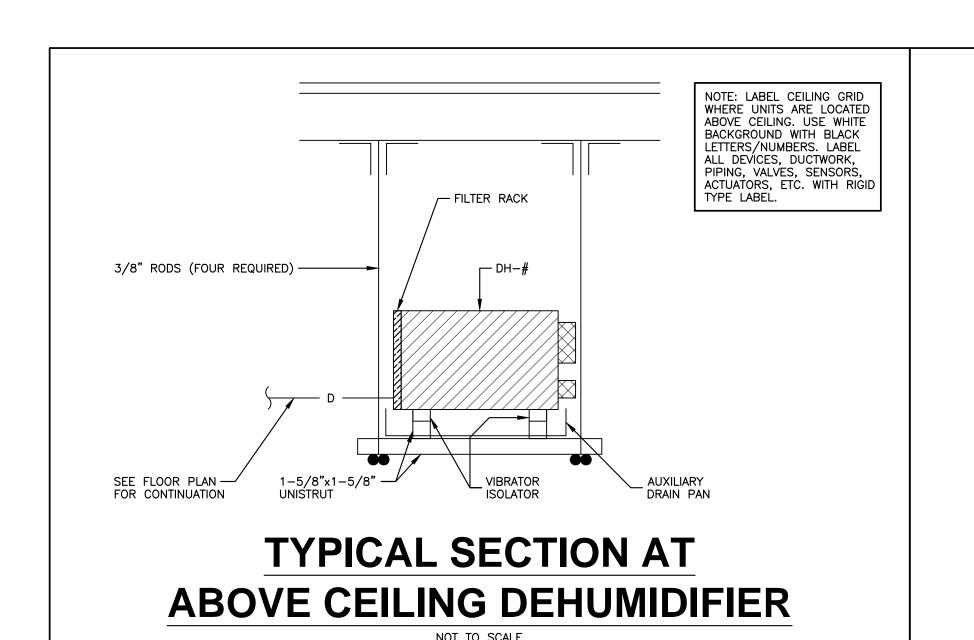
Date: 31 AUGUST 2022

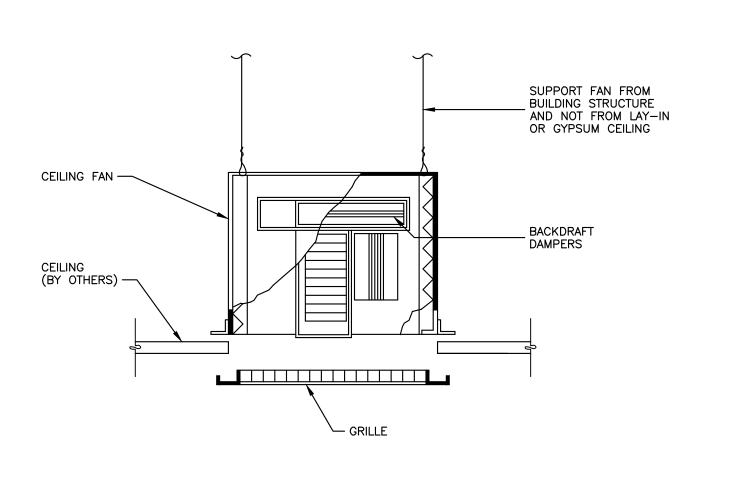
Sheet Description

WATER
PLUMBING
PLAN

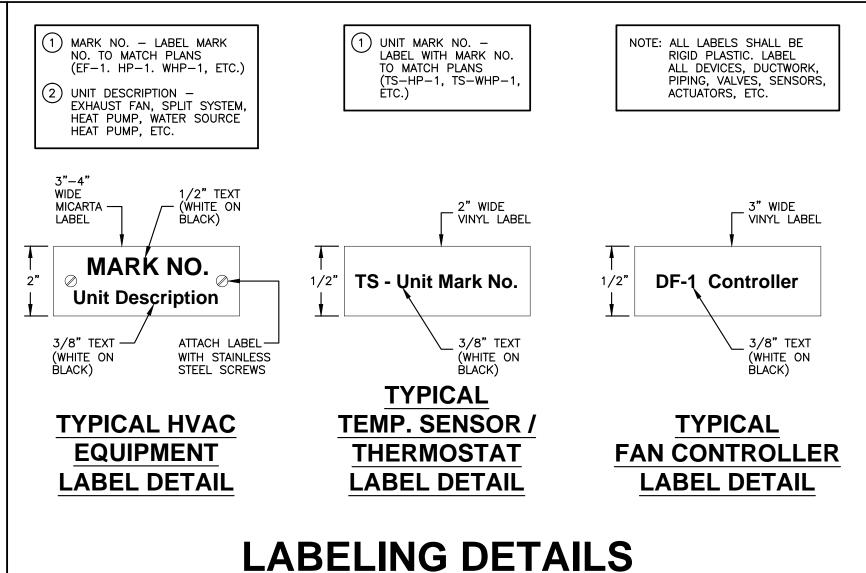
Sheet Number

BI.D/P3.1





TYPICAL CEILING FAN DETAIL



BID ITEM D DEHUMIDIFIER EQUIPMENT SCHEDULE

							. •••	U	
			WATER REMOVAL		ELECTRIC	CAL	MODE	L NO. DATA	
MARK NO.	NOMINAL FAN CFM	REFRIGERANT	80°F 60% RH	OPERATING RANGE	POWER SUPPLY	AMPS	MANUFACTURER (OR APPROVED) EQUAL)	UNIT MODEL NO.	NOTES
DH 1	495	R-410A	205 PINTS/DAY	49°-95°F	115-1-60	13.2	THERMA-STOR	SANTA-FE ULTRA205	SEE BELOW

- (1) UNIT TO BE CONTROLLED WITH FACTORY MODEL DEH 3000 WALL MOUNTED HUMIDISTAT.
- (2) UNIT TO INCLUDE FACTORY MERV 13 FILTER.
- (3) UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT MOUNTED IN UNIT SUPPLY DUCT AND SHALL BE POWERED FROM ASSOCIATED DEHUMIDIFIER AND SHALL INCLUDE ALL NECESSARY TRANSFORMERS, INTERLOCK, ETC.
- (4) UNIT TO INCLUDE FACTORY CONDENSATE PUMP KIT.

				L			EM D		•		
							MAXIMUM		MODEL 1	NO. DATA	
MARK NO.	MOUNTING	SIZE W X H	BLADE ANGLE	BLADE CENTERS	MIN. FREE AREA	MINIMUM FREE AREA SQ. FT.	PRESSURE DROP IN W.G.	CFM	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	NOTES
(L)	SIDE WALL	24"X16"	37°	4"	35%	0.92	0.10	750	GREENHECK	ESD-635	SEE BELOW

(1) LOUVER TO INCLUDE FLANGE FRAME AND KYNAR FINISH. VERIFY FINAL COLOR AND FINISH WITH ARCHITECT. VERIFY QUANTITY WITH PLANS.

APPROVED EQUALS: RUSKIN AND UNITED ENERTECH.

BID ITEM D EXHAUST FAN SCHEDULE										
MARK NO.	MOUNTING	CFM	STATIC IN W.G.	SONES	WATTS	VOLTAGE	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	WEIGHT (LBS.)	NOTES
EF 1	CEILING	300	0.25	1.5	160	115-1-60	LOREN COOK	GC-740	36	SEE BELOW
EF 2	CEILING	450	0.25	3.8	215	115-1-60	LOREN COOK	GC-740	36	SEE BELOW

- (1) FAN TO INCLUDE FACTORY MOUNTED/PRE-WIRED FAN SPEED CONTROL
- (2) FAN TO BE SWITCHED WITH LIGHTING.
- (3) FAN TO INCLUDE CEILING RADIATION DAMPER.

APPROVED EQUALS: BREIDERT, GREENHECK, AND PENN.

	BID ITEM D CEILING MOUNTED ELECTRIC HEATER SCHEDULE								
٥	EILIN	IG MO	UNI	ED E	LECI	RIC HE	AIEK	SCHE	DULE
MARK NO.	NOMINAL CFM	VOLTAGE	K.W.	BTU/HR (000)	AMPS	MANUFACTURER (OR APPROVED EQUAL)	UNIT MODEL NO.	UNIT WEIGHT (LBS)	NOTES
CEH 1	300	240-1-60	5.0	17.1	20.8	BERKO	FFCH-552	27	SEE BELOW
CEH 2	300	240-1-60	5.0	17.1	20.8	BERKO	FFCH-552	27	SEE BELOW

APPROVED EQUALS: INDEECO, MARKEL, QMARK, AND RAYWALL

		Н	VAC LEGEND		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\12"X12"\	NEW RECTANGULAR DUCT WIDTH X DEPTH	CD	HVAC CONDENSATE DRAIN PIPING	RAKE T	90° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
10"ø	NEW ROUND DUCT DIAMETER	J	STANDARD 90° RADIUS ELBOW		45° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	FAN CONTROL BOX LOCATION	S	STANDARD 45° RADIUS ELBOW		STANDARD DUCT SIZE TRANSITION
H	HUMIDISTAT LOCATION	ZIATA	VANED TEE (PROVIDE ALL SQUARE OR RECTANGULAR TEE'S WITH VANES EVEN IF SYMBOL IS MISSING)		STANDARD SQUARE TO ROUND TRANSITION

HVAC NOTES

- ALL DIMENSIONS SHOWN ARE NET INTERNAL.
- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL REQUIREMENTS OF THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, ETC. COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES; COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHTING FIXTURES. FOR PARTICULAR ITEMS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR REVIEW AND/OR APPROVAL.
- COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH THE STRUCTURAL ENGINEER. TRANSITIONS RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES. MAINTAIN

DUCTWORK LEVEL AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.

- THE HVAC CONTRACTOR IS TO REVIEW THE ENTIRE SET OF PLANS FOR COORDINATION WITH OTHER TRADES. SHOP DRAWINGS WITH ALL TRADES COORDINATED WILL BE
- CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
- 8 CONDENSATE DRAIN LINES RUNNING HORIZONTALLY SHALL BE SLOPED 1/4" PER FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED. FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED.
- 9 ALL 3/4" AND 1" CONDENSATE DRAIN TRAPS SHALL BE EZ-TRAP OR APPROVED FOUAL WITH FLOAT SWITCH. EQUAL WITH FLOAT SWITCH.
- INSTALL AUXILIARY DRAIN PAN UNDER ALL UNITS MOUNTED IN ATTIC, ABOVE CEILINGS, ETC. INSTALL WET SWITCH FOR UNIT SHUT DOWN IN AUXILIARY DRAIN PAN DIVERSITECH "WET SWITCH" CONDENSATE DETECTION SWITCH OR APPROVED EQUAL.
- REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING. IF CONDENSATE DRAINS ARE NOT SHOWN ON THE PLUMBING PLANS, ALL CONDENSATE DRAINS SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.
- VERIFY WITH THE ARCHITECTURAL DRAWINGS, SIZE, LOCATION, AND MOUNTING HEIGHT OF ALL LOUVERS. VERIFY COLOR AND FINISH WITH OWNER.
- ALL UNUSED PORTION OF LOUVERS SHALL BE CAPPED OFF WITH 1" INSULATED ALUMINUM AND SEALED AIR/WATER TIGHT.

- ALL THERMOSTATS TO BE MOUNTED 4'-0" A.F.F. TO HIGHEST OPERABLE CONTROL UNLESS OTHERWISE INDICATED.
- PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS
 IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: RECTANGULAR SUPPLY: 1 INTERNAL ROUND SUPPLY: 1–1/2" EXTERNAL FLEXIBLE SUPPLY: 1" PRE INSULATED RECTANGULAR RETURN: 1" INTERNAL OSA/EXHAUST: 1-1/2" EXTERNAL
- DUCTWORK SHALL BE GALVANIZED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
- ROUND DUCT SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 WITH MINIMUM INSTALLED R-VALUE 4.2. ROUND DUCTS LOCATED WITHIN THE ATTIC SHALL BE INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 100 WITH MINIMUM INSTALLED R-VALUE 6.0
- 19 ALL EXPOSED DUCT SHALL BE INSULATED INTERNALLY WITH 1" DUCT LINER EQUAL TO CERTAINTEED TG2 DUCT LINER WITH MINIMUM INSTALLED R-VALUE 4.0.
- ALL EXPOSED DUCT SHALL BE PAINTED. DUCT SHALL BE "PAINT GRIP". COORDINATE PAINT COLOR WITH OWNER.
- DUCT LINER FOR RECTANGULAR DUCTS SHALL BE EQUAL TO CERTAINTEED TG2 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0. RECTANGULAR DUCTS LOCATED WITHIN THE ATTIC SHALL BE LINED WITH DUCT LINER EQUAL TO CERTAINTEED TG2 DUCT LINER WITH A MINIMUM R-VALUE OF 4.0 AND WRAPPED EXTERNALLY WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75
- WARRANTIES SHALL BEGIN AT FINAL ACCEPTANCE. ALL COMPRESSORS SHALL INCLUDE MIN. OF FIVE YEAR WARRANTY. ONE YEAR WARRANTY FOR LABOR, PARTS, UNITS, ETC. IS REQUIRED FOR ALL EQUIPMENT. ADDITIONALLY CONTRACTOR IS RESPONSIBLE FOR ALL PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE ON INSTALLED EQUIPMENT FOR THE ONE YEAR WARRANTY PERIOD IN ORDER TO MAINTAIN ALL FACTORY/MANUFACTURER
- THE CONTRACTOR SHALL INSTALL ANY CURB-MOUNTED EQUIPMENT IN SUCH A WAY THAT NO WATER LEAKAGE IS INTRODUCED INTO THE BUILDING.
- ALL INDOOR AND OUTDOOR UNITS SHALL BE LOCATED SO THAT MAINTENANCE CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS PER PLANS/SPECIFICATIONS ARE MAINTAINED. COORDINATE MAINTENANCE CLEARANCES WITH STRUCTURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.
- (25) ALL COLOR/FINISH SELECTIONS SHALL BE MADE BY OWNER.

WITH A MINIMUM INSTALLED R-VALUE OF 4.2.

CODES AND STANDARDS

- 2015 INTERNATIONAL PLUMBING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ASHRAE 90.1-2013 ENERGY STANDARD

HVAC DRAWING INDEX

SHEET NO.	SHEET TITLE
BI.D/M1.1	HVAC LEGEND, NOTES, SCHEDULES, AND DETAILS
BI.D/M2.1	HVAC PLAN

WHORTON ENGINEERING, INC.

08-31-2022 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205 PHONE: (256) 820-9897

BI.D / M1.1 No.14192

WHORTON ENGINEERING PROJECT NO. 22158

46 OF 47

Architecture, PC

445 Dexter Avenue

Montgomery, Al 36104

Phone: (334) 420-5672

Fax: (334) 420-5692

J.MICHAEL

RUTLAND

TIMOTHY R.

HOLMES

FMTC

SOLDIER

FITNESS

TRAINING AND

TESTING

FACILITY

FT. MCCLELLAN, ALABAMA

IFB # AC-22-B-0038-S

CONSTRUCTION

DOCUMENTS

Sheet Description

HVAC LEGEND

NOTES,

SCHEDULES,

AND DETAILS

Sheet Number

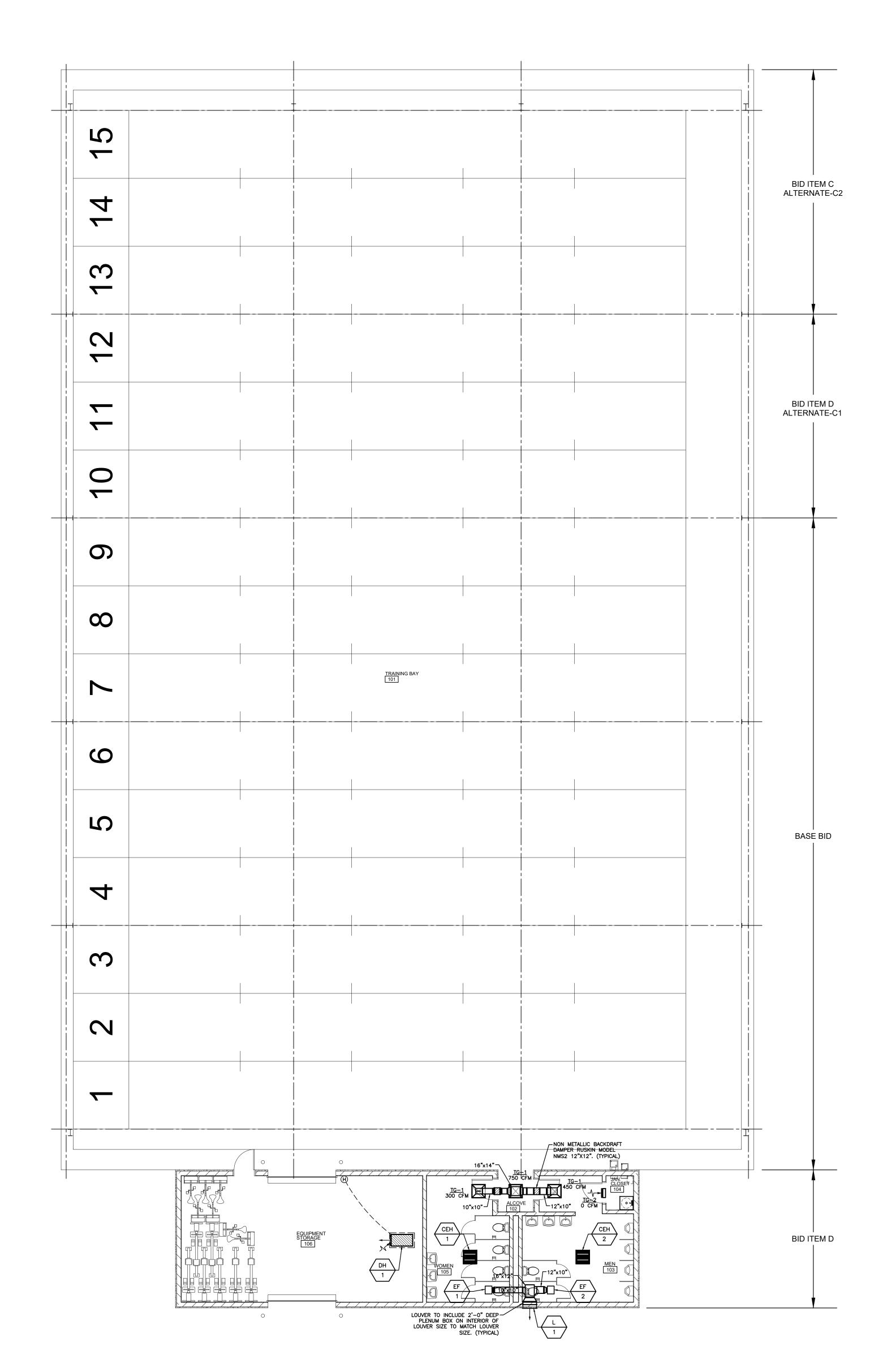
31 AUGUST 2022

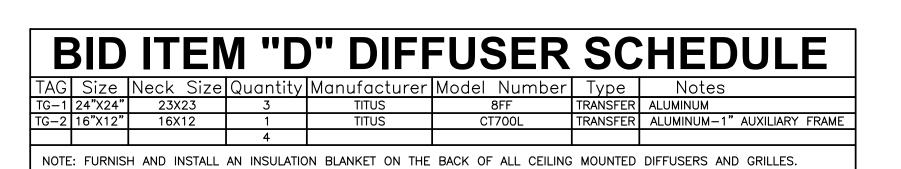
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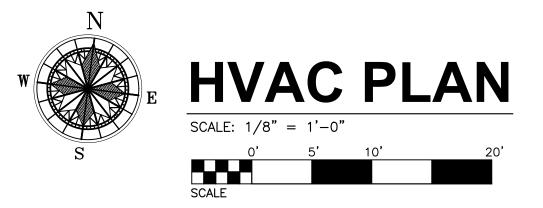
Revisions:

Suite 5050

HVAC LEGEND, NOTES, SCHEDULES, AND DETAILS



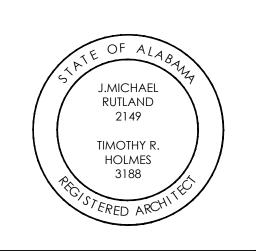




JMR+H

Architecture, PC 445 Dexter Avenue Suite 5050 Montgomery, Al 36104

Phone: (334) 420-5672 Fax: (334) 420-5692



FMTC SOLDIER **FITNESS** TRAINING AND **TESTING FACILITY** FT. MCCLELLAN, ALABAMA IFB # AC-22-B-0038-S

CONSTRUCTION DOCUMENTS

Project Number: 22-1165 31 AUGUST 2022

Sheet Description

HVAC PLAN

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BI.D / M2.1

47 OF 47

25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205 PHONE: (256) 820-9897 WHORTON ENGINEERING PROJECT NO. 22158

RANDALL WHORTON, P.E.

WHORTON ENGINEERING, INC.

REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING

DATE 08-31-2022

No.14192

PROFESSIONAL