A NEW BUILDING EXPANSION

FOR

ORANGE BEACH HIGH SCHOOL FIELD HOUSE

ORANGE BEACH, ALABAMA

GENERAL NOTES

- ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES, AND INDUSTRY STANDARDS FOR CONSTRUCTION, ELECTRICAL, PLUMBING, AND MECHANICAL.
- $2.\,$ THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED HEREIN. DEVIATIONS FROM THESE DRAWINGS ARE AT THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
- 3. IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES. SETBACK LINES, EASEMENTS, ETC.
- 4. DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUD OR MASONRY UNLESS
- 5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASE OF MATERIALS, FABRICATION, OR BEGINNING CONSTRUCTION.
- 6. PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN ALL SOIL WHICH FLOWS OFF-SITE.
- 7. ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
- 8. PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN TERMITE ATTACK.
- 9. NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES ARE ALLOWED. 10. ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE REGULARLY AND PROMPTLY.
- II. THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
- 12. ALL MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS ARE TO BE FULLY COORDINATED WITH THE ARCHITECTURAL DOCUMENTS.
- 13. ALL PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS SHALL BE DESIGNED AND INSTALLED BY A STATE OF ALABAMA LICENSED AND CERTIFIED CONTRACTOR AND THEIR RESPECTIVE DISCIPLINE. PLUMBING CONTRACTOR SHALL SHOW EVIDENCE OF THEIR ALABAMA PLUMBERS' AND GAS FITTERS LICENSE; HEATING AND COOLING CONTRACTOR'S LICENSE: AND ALABAMA ELECTRICAL CONTRACTOR'S LICENSE.
- 14. PLUMBING, MECHANICAL, AND ELECTRICAL CONTRACTOR'S SHALL PROVIDE THE OWNER WITH SHOP DRAWINGS AND SPECIFICATIONS PRIOR TO ORDERING AND INSTALLATION. ALL WORK SHALL COMPLY WITH THE 2015 INTERNATIONAL BUILDING CODE, 2015 INTERNATIONAL FUEL AND GAS CODES, 2015 INTERNATIONAL MECHANICAL CODE, 2015 INTERNATIONAL
- FIRE CODE, AND 2014 NATIONAL ELECTRICAL CODE (NFPA 70). 15. DO NOT SCALE DRAWINGS! DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENT OVER NOTED DIMENSIONS.
- 16. ALL CONTRACTOR'S AND SUB-CONTRACTOR'S SHALL COMPLY WITH OSHA REQUIREMENTS. 17. ALL EXTERIOR DOORS AND WINDOWS SHALL BE DESIGNED AND INSTALLED TO WITHSTAND DESIGN WIND LOADS BASED ON ASCE 7-16 AND 160 MPH WIND RATING.
- 18. ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.

PROJECT SUMMARY

- THIS PROJECT PROVIDES FOR A NEW ADDITION TO AN EXISTING FACILITY (APPROXIMATELY 3,776 SQUARE FEET UNDER ROOF) FOR THE ORANGE BEACH HIGH SCHOOL GILD HOUSE! SPACES TO INCLUDE WORKOUT AREA, SHOWERS, LOCKERS, AND RESTROOM AREAS.
- THE OVERALL STRUCTURE INCLUDES MASONRY EXTERIOR AND INTERIOR WALLS WITH A PRE-ENGINEERED WOOD TRUSS ROOF SYSTEM AND METAL ROOF TO MATCH THE EXISTING.

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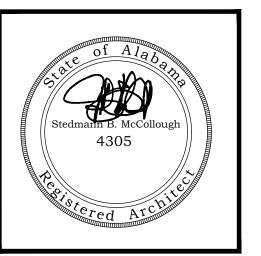
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McCollough GULF SHORES, ALABAMA



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2. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.

3. DISTURBED AREAS SHALL BE VEGETATED AFTER CONSTRUCTION.

4. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.

5. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:

A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.

B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.

6. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION LAWS,

7. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.

8. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.

9. CONSTRUCT SILT FENCE ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED FILL CONSTRUCTION.

10. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

12. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE DETENTION POND, SILT SHALL BE REMOVED WHEN A DEPTH OF 18" HAS ACCUMULATED AT THE WEIR.

13. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR ACCEPTANCE.

14. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.

15. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.

16. TREE PROTECTION AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

17. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.

18. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.

ALL DISTURDED AREAS TO BE SPASSED AS SOON AS DESCRIPTE

19. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS POSSIBLE.

20. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.

21. GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH GRASS IN KIND. IN AREAS OF INDECIPHERABLE GRASSES—USE FESCUE.

22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM REQUIRED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE THEIR FUNCTION AT ALL TIMES.

23. LENGTH OF RIP RAP AREA SHALL BE 6(SIX) TIMES THE DIAMETER OF THE STORM DRAIN PIPE. WIDTH OF RIP RAP AREA SHALL BE THREE(3) TIMES THE DIAMETER AT THE MOUTH OF THE PIPE AND TWO(2) TIMES THE DIAMETER AT THE DOWNSTREAM END.

EXISTING IRRIGATION NOTES:

1. CONTRACTOR MUST FIELD VERIFY THE LOCATION OF ANY EXISTING IRRIGATION LINES, HEADS, VALVES, METERS AND CONTROLLERS WITHIN THE AREA OF CONSTRUCTION PRIOR TO START OF DEMOLITION.

2. THE CONTRACTOR SHALL CUT AND CAP ANY LINES THAT EXTEND INTO THE AREA OF CONSTRUCTION SO THAT THE SYSTEM CAN REMAIN OPERATIONAL WHILE CONSTRUCTION TAKES PLACE.

3. THE CONTRACTOR SHALL CUT AND CAP ALL IRRIGATION LINES SO THAT THEY STAY 20 FEET FROM THE FACE OF ANY BUILDING.

4. ANY SPRINKLER HEADS WITHIN THE LIMITS OF CONSTRUCTION THAT POSE A PROBLEM TO THE STAGING AREA OR EQUIPMENT SHALL BE TEMPORARILY REMOVED AND SALVAGED. THEIR LOCATION SHALL BE MARKED SO THAT ONCE THE CONSTRUCTION IS COMPLETE THE CONTRACTOR WILL REINSTALL THE HEADS AND BRING THEM BACK TO OPERATIONAL STATUS.

5. THE CONTRACTOR SHALL REMOVE AND SALVAGE ANY IRRIGATION CONTROLLERS, HEADS, VALVES AND METERS THAT ARE LOCATED WITHIN 20 FEET FROM A NEW BUILDING, UNLESS THEY ARE NOT IN CONFLICT WITH CONSTRUCTION OR HAVE A CHANCE OF BECOMING DAMAGED DUE TO THE USE OF ONSITE EQUIPMENT.

6. IN CASE A MAIN METER IS WITHIN THE AREA OF DEMOLITION THE CONTRACTOR MUST RUN A NEW LINE OFF THE BUILDING MUST COORDINATE WITH THE ENGINEER AND OWNER SO THAT THE NEW METER AND VALVES CAN BE REINSTALLED BY THE OWNER ONCE THE CONSTRUCTION IS COMPLETE.

GENERAL NOTES

- 1. ALL SANITARY SEWER WORK ITEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ORANGE BEACH SEWER, CODE OF ORDINANCES, CHAPTER 74 UTILITIES AS AMENDED IN THE PROJECT SPECIFICATIONS AND CONTRACT PLANS. ALL CONSTRUCTION PERFORMED WITHIN THE EXISTING ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) RIGHT—OF—WAYS SHALL BE IN ACCORDANCE WITH THE ALDOT STANDARDS FOR ACCOMMODATING UTILITIES ON HIGHWAY RIGHT—OF—WAY GUIDELINES IN ADDITION, THE CONTRACTOR SHALL PROVIDE TO THE ALDOT A PERFORMANCE BOND AND TRAFFIC CONTROL PLANS PRIOR TO THE START OF WORK IN THIS PROJECT. WHEN CONFLICTS OCCUR BETWEEN REQUIREMENTS SHOWN ON THESE DRAWINGS/SPECIFICATIONS AND REGULATORY CRITERIA, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL. THE CONTRACTOR SHALL VERBALLY BRING ANY CONFLICT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY, FOLLOWED BY AN OFFICIAL WRITTEN NOTIFICATION WITHIN 24 HOURS.
- 2. IF NECESSARY, USE TEMPORARY SHEETING OR TRENCH BOXES TO MINIMIZE THE SIZE OF THE EXCAVATIONS AND TO PROTECT ADJACENT EXISTING ROADWAYS, UTILITIES AND OTHER FACILITIES. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER UNLESS THE CONTRACTOR IS DIRECTED TO LEAVE THE SHEETING IN PLACE.
- 3. REQUIRED SEWER LATERALS SHALL BE LAID TO THE EXISTING RIGHT OF WAY/PERMANENT EASEMENT LINE AND A CLEAN OUT INSTALLED.
- 4. WHERE WATER OR SEWER LINES ARE LAID IN LAWNS, MEDIAN STRIPS, ETC. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE EXISTING SOD, PLANTS, SHRUBS, ETC. AND STORE IN SUCH A MANNER AS TO PRESERVE SAME. AFTER LAYING SEWER OR WATER LINE, THE CONTRACTOR SHALL REPLACE ALL SOD, SHRUBS, ETC. TO THEIR ORIGINAL POSITION. ANY SOD OR PLANTS LOST OR DAMAGED BY REMOVAL SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 5. CONTRACTOR SHALL EXPLORE AHEAD A MINIMUM OF 200-FEET SO ADJUSTMENTS CAN BE MADE IN THE ALIGNMENT OF THE PIPE, IF NECESSARY, IN CASE OF UNKNOWN CONFLICTS WITH EXISTING STRUCTURES, UTILITIES AND/OR PIPING.
- 6. EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE IF THE LOCATIONS SHOWN ARE CORRECT AND TO DETERMINE IF THERE ARE ADDITIONAL LINES THAT ARE NOT SHOWN ON THE PLANS. ALSO, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITY LINES DURING CONSTRUCTION WITH NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITY OWNER FOR ANY LINES THAT MAY CONFLICT WITH THE CONSTRUCTION AND THEY WILL MAKE THE ADJUSTMENTS NECESSARY (IN THE OPINION OF THE ENGINEER). IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY ADJUSTMENTS, AND THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS COORDINATION, OR ANY DELAYS RESULTING FROM UTILITY ADJUSTMENTS. FOR UTILITY LOCATION SERVICE, THE CONTRACTOR SHALL CALL 1-800-292-8525 AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY OWNER FOR THE COORDINATION OF ANY UTILITIES REQUIRING RELOCATION. THE ENGINEER RESERVES THE RIGHT TO RELOCATE OR ADJUST REQUIRED SANITARY SEWER LINE LOCATIONS AND WATER MAINS TO AVOID EXISTING UTILITIES LOCATED BY THE CONTRACTOR.
- 7. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF ALABAMA TO LOCATE PROPERTY CORNERS AND LAYOUT THE EASEMENTS AND SANITARY SEWER ALIGNMENT PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS TO THE EASEMENT DOCUMENTS OBTAINED BY THE OWNER, INCLUDING ALL ADDENDUMS, PROPERTY SPECIFIC ITEMS ARE LISTED ON THE PLANS FOR REFERENCE. HOWEVER IT IS THE CONTRACTOR S RESPONSIBILITY TO COMPLY WITH ALL EASEMENT AGREEMENTS.
- 8. ALL PROPERTY AND RIGHT-OF-WAY LINE LOCATIONS SHOWN ARE APPROXIMATE. PROJECT RIGHT-OF-WAY LINES SHALL BE SURVEYED AS NOTED ABOVE BY THE CONTRACTOR USING REFERENCES AS NOTED ON THE CONSTRUCTION PLANS.
- 9. ALL EXISTING BUILDINGS LOCATED WITHIN THE TEMPORARY OR PERMANENT EASEMENTS, EXCEPT THOSE NOTED ON THE PLANS TO BE REMOVED, SHALL BE LEFT IN PLACE. ANY DAMAGE TO THESE BUILDINGS BY THE CONTRACTOR'S OPERATIONS SHALL BE REMEDIED AT THE CONTRACTOR'S EXPENSE.
- 10. THE CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE DRAWINGS. RESTORATION WORK INCLUDES, BUT IS NOT LIMITED TO PAVEMENT, BASE, SUB GRADE, CONCRETE CURBS, THERMOPLASTIC TRAFFIC MARKINGS, SIDEWALKS, STORM WATER PIPE, ETC. ALL RESTORATION WORK SHALL BE PER ALDOT STANDARDS AND SPECIFICATIONS AND ALDOT PERMIT REQUIREMENTS IF THERE IS A CONFLICT WITH ALDOT REQUIREMENTS AND THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. IF ADDITIONAL TOPOGRAPHY OR ANY OTHER INFORMATION IS NECESSARY FOR THE CONTRACTOR TO RECONSTRUCT ALL FACILITIES TO PRE CONSTRUCTION GRADES AND DIMENSIONS, THE ACQUISITION OF SUCH ADDITIONAL INFORMATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT HIS EXPENSE. THE CONTRACTOR SHALL RECONSTRUCT ALL FACILITIES TO PRE—CONSTRUCTION GRADES AND DIMENSIONS, UNLESS OTHERWISE NOTED. WATER, FERTILIZE AND SUPPLY ALL VEGETATION REMOVED AND REPLACED AT NOT EXPENSE TO THE OWNER, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 11.ALL TREES, SHRUBS, ETC., ALONG THE LINES OF CONSTRUCTION SHALL BE PROTECTED WHERE POSSIBLE UNLESS NOTED OTHERWISE ON THE DRAWINGS. NO TREES LARGER THAN THREE INCHES (3") IN DIAMETER SHALL BE DESTROYED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
- 12.ALL EXCESS MATERIAL FROM EXCAVATIONS AND BORING (INCLUDING REMOVAL OF EXISTING PAVEMENT, CURB AND GUTTER, AND SIDEWALKS) BELONG TO THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN ACCEPTABLE MANNER. COST FOR SUCH REMOVAL AND DISPOSAL IS A SUBSIDIARY OBLIGATION OF THE VARIOUS PAY ITEMS AND WILL NOT BE PAID FOR SEPARATELY.
- 13.ALL PIPES 16 INCHES AND LARGER SHALL HAVE MINIMUM COVER OF 48 INCHES, AND PIPES SMALLER THAN 16 INCHES SHALL HAVE A MINIMUM COVER OF 30 INCHES, EXCEPT WHERE OTHERWISE NOTED ON THE PLANS, AT STREET INTERSECTIONS OR WHERE THE NEW PIPELINE CROSSES EXISTING OR PROPOSED UNDERGROUND LINES AT THE APPROXIMATE SAME DEPTH AS THE NEW LINE THE COVER SHALL BE INCREASED AND THE NEW LINE LAID BELOW THE EXISTING OR PROPOSED PIPELINES. WHERE THE NEW PIPELINE CROSSES EXISTING OR PROPOSED DITCHES, THE TOP OF THE PIPE SHALL BE A MINIMUM OF 36 INCHES BELOW THE EXISTING OR PROPOSED INVERT OF THE DITCH, WHICHEVER IS LOWER, EXCEPT WHERE NOTED ON THE PLANS.
- 14.THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING PIPE FROM FLOATING. IF PIPE FLOATS DURING CONSTRUCTION, THE CONTRACTOR SHALL RELAY PIPE TO GRADE AT HIS EXPENSE
- 15. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTY AT ALL TIMES. CONSTRUCTION ALONG THE ROUTE SHOULD BE DONE IN STAGES TO MINIMIZE INCONVENIENCE TO LOCAL TRAFFIC. ALL FLAG MEN AND TRAFFIC CONTROL DEVICES NECESSARY SHALL BE FURNISHED BY THE CONTRACTOR. DETOUR PLANS SHALL BE SUBMITTED TO THE CITY ENGINEER AND /OR ALDOT FOR APPROVAL TRAFFIC REGULATIONS ON THE PROJECT SHALL BE IN ACCORDANCE WITH ALDOT.
- 16. THE CONTRACTOR SHALL AT ALL TIMES, GAIN PERMISSION FROM THE ENGINEER FOR ANY PROPOSED CONSTRUCTION THAT WILL AFFECT TRAFFIC ON ANY STREET AFTER GAINING PERMISSION FROM THE ENGINEER. THE CONTRACTOR SHALL REQUEST IN WRITING TO THE ENGINEER, AT LEAST THREE (3) DAYS PRIOR TO THE START OF CONSTRUCTION, FOR PERMISSION TO PROCEED WITH THE CONSTRUCTION. THE CONTRACTOR SHALL NOT START SAID CONSTRUCTION UNTIL PERMISSION IS RECEIVED AND ALL WARNING SIGNS, BARRICADES AND OTHER REQUIRED CONVENIENCES AND SAFETY DEVICES REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, LATEST EDITION HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL AT ALL TIMES, MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON THE STREET WHERE WATER MAINS AND SEWER LINES ARE BEING LAID. THE CONTRACTOR SHALL PROVIDE THE NECESSARY "EXPERIENCED FLAG MAN" TO DIRECT TRAFFIC.
- 17.AT NO TIME WILL A VALVE OF THE EXISTING WATER SYSTEM, BE OPERATED WITHOUT THE PRESENCE AND AUTHORIZATION OF AN AUTHORIZED EMPLOYEE OF THE CITY OF ORANGE BEACH OR ORANGE BEACH WATER AUTHORITY.
- 18. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONTROLS AND/OR STRUCTURES REQUIRED TO MAINTAIN SUITABLE AND SAFE WORKING CONDITIONS AT ALL TIMES. SUCH ITEMS SHALL BE REMOVED ONCE THAT PORTION OF WORK HAS BEEN COMPLETED.
- 19. SHOULD THE CONTRACTOR ELECT TO OBTAIN AREAS FOR THE PURPOSE OF STORING MATERIALS AND EQUIPMENT OR FOR CONDUCTING HIS WORK OPERATIONS, HE SHALL FURNISH THE OWNER AND ENGINEER A COPY OF THE AGREEMENT BETWEEN HIM AND THE OWNER OF THE PROPERTY PRIOR TO USING THE AREA (NO DIRECT PAYMENT). ANY CURB AND GUTTER, SIDEWALK, DRIVEWAY, ETC. DAMAGED BY THE CONTRACTOR WHEN HAULING MATERIALS OR MOVING EQUIPMENT IN OR OUT FROM THIS STORAGE AREA SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 20.THE OWNER RESERVES THE RIGHT TO DELETE, REDUCE AND/OR INCREASE ANY BID ITEM OR ITEM OF WORK. NO ADJUSTMENT WILL BE MADE TO THE OTHER BID ITEM PRICES DUE TO THESE REVISIONS.
- 21. A MINIMUM HORIZONTAL DISTANCE OF FIVE (5) FEET SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SANITARY SEWER LINES, UNLESS OTHERWISE UNAVAILABLE, IN LOCATIONS WHERE WATER MAINS MUST CROSS SANITARY SEWER TRUNK LINES, THE SEWER MAIN SHALL BE LAID AT SUCH ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS 18 INCHES ABOVE THE TOP OF THE SANITARY SEWERS. THIS VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE SEWER LINE.
- 22. THE CONTRACTOR SHALL NOTE THAT ALL WORK PERFORMED WITHIN PUBLIC OR PRIVATE RIGHT-OF-WAY OR EASEMENT AS ASSOCIATED WITH THE CONSTRUCTION OF THE NEW WATER AND/OR SEWER MAINS SHALL BE SUBJECT TO EROSION CONTROL PREVENTION TO PROTECT THE STABILITY OF ALL ROADS, STREETS, SIDEWALKS AND DRIVEWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE WORK AREA AT ALL TIMES DURING CONSTRUCTION. ALL WORK AND SITE RESTORATION SHALL BE GUARANTEED AS DEFINED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS TO ALL ROADWAYS, STREETS, SIDEWALKS AND DRIVEWAYS WHICH ARE A RESULT OF CONSTRUCTION ACTIVITY ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL NOT BE REIMBURSED FOR ANY ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND MAINTENANCE OF THE WORK AREA DURING THE CONSTRUCTION AND/OR GUARANTEE PERIOD AS DEFINED IN THE SPECIFICATIONS.
- 23. SPECIAL EMPHASIS ON EXCAVATION SAFETY AND TRENCH CONSTRUCTION:
- A.OSHA'S EXCAVATION SAFETY STANDARDS 29, CFR PART 1926.650–652 SUBPART P. IS CONSIDERED AS COMPLIMENTARY TO THESE CONTRACT DOCUMENTS. IF THERE IS ANY DUPLICATION, REDUNDANCY OR CONFLICT BETWEEN THE STIPULATIONS OF THESE CONTRACT DOCUMENTS AND THOSE STANDARDS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EXCAVATIONS DO NOT ENDANGER WORKMEN, EXISTING STRUCTURES, UTILITIES, OR OTHER FACILITIES. IF SUCH CONDITIONS OCCUR WHICH MAY ENDANGER WORKMEN, EXISTING STRUCTURES, UTILITIES, OR OTHER FACILITIES, IMMEDIATELY INSTALL AND MAINTAIN ADEQUATE SHEETING AND BRACING PER OSHA SPECIFICATIONS CEASE ALL WORK UNTIL THE SHEETING AND BRACING PER OSHA SPECIFICATIONS CEASE ALL WORK UNTIL THE SHEETING OR ENDANGERING AND COMPLETELY INSTALLED. INSTALL THE SHEETING AND BRACING IN A MANNER THAT WILL ALLOW REMOVAL WITHOUT INJURING OR ENDANGERING AND COMPLETELY FILL ALL VOIDS CAUSED BY THE WITHDRAWAL OF SHEETING WITH SAND AND COMPACT TO A DEGREE EQUAL TO THE SURROUNDING SOIL. REMOVE THE SHEETING AS THE WORK PROGRESSES OR, AT THE DISCRETION OF THE ENGINEER, CUT THE SHEETING OFF BELOW FINISHED GRADE AND LEAVE IN PLACE.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND TEMPORARILY RELOCATING ALL INFORMATION AND TRAFFIC SIGNS DURING CONSTRUCTION. SIGN SHOULD BE VISIBLE TO MOTORIZED VEHICLES; REPOSITION SIGNS IN A PRE-CONSTRUCTION LOCATION IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED IN THESE AREAS. EXISTING STREET & ROAD NAMES SIGNS IN THE PROJECT AREAS SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLE TRAFFIC.
- 25. FOLLOWING FINAL ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR SHALL FINALIZE AND SUBMIT TO THE ENGINEER A COMPLETE SET OF RECORD DRAWINGS SHOWING ACTUAL QUANTITIES, LOCATION AND VALVE REFERENCES. THE ENGINEER WILL FURNISH THE CONTRACTOR AN "ISSUED FOR CONSTRUCTION" SET OF DRAWINGS TO BE USED FOR THIS PURPOSE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A RECORD DRAWING SET OF PLANS AS THE PROJECT PROGRESSES, PAY ESTIMATES SHALL NOT BE RECOMMENDED FOR PAYMENT UNTIL THE CONTRACTOR HAS DEMONSTRATED TO THE OWNER'S REPRESENTATIVE THAT THE RECORD DRAWINGS ARE BEING MAINTAINED.
- 26. THE CONTRACTOR SHALL BACKFILL ALL TRENCHES AT THE END OF EACH DAYS WORK NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. THE ENDS OF ALL PIPE SHALL BE PLUGGED AT THE CLOSE OF EACH DAY'S WORK.

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CITY OF ORANGE BEACH UTILITY CONSTRUCTION NOTES

- 1. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIS EQUIPMENT TO EXISTING SANITARY SEWER LATERALS, UTILITIES, CROSS—DRAIN PIPES, BOX CULVERTS AND HEADWALLS ALL DISTRIBUTED OR BROKEN PIPES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOWS THROUGH ANY EXISTING CULVERT, PIPE, CHANNELS AND STRUCTURES AND DIVERSION OF FLOWS IN THE CONSTRUCTION AREA AS NECESSARY DURING CONSTRUCTION WITH NO DIRECT PAYMENT. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS CONTRACT PAY ITEMS.
- 3. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES AS REQUIRED BY ADEM AND EPA AND THE CONTRACT SPECIFICATIONS TO CONTROL EROSION, SEDIMENTATION AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION CONSTRUCTION PRACTICES INCLUDE:
- 4. CONSTRUCT TEMPORARY SEDIMENTATION BASINS OR EARTHEN BERMS AT DOWN-GRADIENT ENDS OF NEWLY GRADED AREAS TO PROVIDE FOR SEDIMENT AND TURBIDITY REMOVAL
- 5. LIMIT SITE CLEARING TO THOSE AREAS REQUIRED FOR A PARTICULAR PHASE OF CONSTRUCTION EXISTING TREES AND VEGETATION TO REMAIN WHEREVER POSSIBLE.
- 6. TURBIDITY BARRIERS, HAY BALES AND OTHER EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETE AND THE POTENTIAL FOR EROSION IS ELIMINATED.
- 7. DO NOT EMPLOY SILT FENCES IN A MANNER TO CAUSE THEM TO ACT AS A DAM ACROSS PERMANENTLY FLOWING WATERCOURSES. USE SILT FENCES AT UPLAND LOCATIONS AND TURBIDITY BARRIERS IN PERMANENT WATER BODIES, REGARDLESS OF WATER DEPTH.
- 8. TURBIDITY BARRIERS FOR STREAMS AND CREEKS MAY BE EITHER FLOATING OR STAKED TYPE OR ANY COMBINATION OF TYPES THAT WILL SUIT SITE CONDITIONS, AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. INSTALL POSTS IN STAKED TURBIDITY BARRIERS IN THE VERTICAL POSITION UNLESS OTHERWISE NOTED.
- 9. DISTURBED AREAS WITHIN PERMANENT AND TEMPORARY EASEMENTS AND RIGHTS-OF-WAYS SHALL BE RESTORED TO PRE-EXISTING CONDITIONS OR BETTER BY INSTALLING TOPSOIL AND SOLID SOD IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE TYPE OF SOLID SOD SHALL MATCH EXISTING SOD AS DETERMINED BY THE ENGINEER.
- 10. THE DEWATERING LIQUID SHALL BE TESTED FOR A TCLP AND FECAL AND RESULTS PROVIDED TO THE CITY FOR DISCHARGING INTO THE CITY'S STORM SEWER SYSTEM. ADDITIONALLY, THE CONTRACTOR SHALL NOT DISCHARGE TURBID DEWATERING LIQUID INTO THE CITY'S STORM WATER SYSTEM.

SITE NOTES

1. ALL CONCRETE SHALL BE CLASS A, 3,000 PSI AT 28 DAYS COMPRESSIVE STRENGTH WITH A MAXIMUM SLUMP OF 4" UNLESS NOTED OTHERWISE. ALL EXPOSED CONCRETE TO HAVE A FINE BROOM FINISH.

2. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER OR TENANT.

3. ALL DIMENSIONS ARE FACE OF CURB AND FACE OF BUILDING OR AS NOTED.

4. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION

5. ALL SIDEWALK ENTRANCES AND EXITS SHALL HAVE TRUNCATED DOMES AS SPECIFIED IN SPECIAL DRAWING NO. SW-618, INDEX NO. 734 OF THE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) SPECIAL AND STANDARD HIGHWAY DRAWING MANUAL.

6. THE CONTRACTOR SHALL SIZE, INSTALL, AND MAINTAIN ADEQUATE CONTROLS FOR THE SITE. REFER TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.

7. THE BENCHMARK WAS REFERENCED TO CONTINUOUS OPERATING REFERENCE

PREPARED BY:

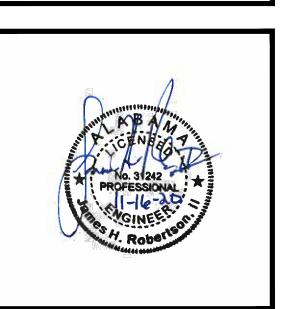
30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527

ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT

Phone: (251) 544-7900 Phone: (251) 970-7900

STATION RTCM0960.





NEW BUILDING EXPANSION FOR RANGE BEACH HIGH SCHOO

JOB NO.:
DRAWN: JF
CHECKED: JHR
DATE: 11.16.2020
REVISION:

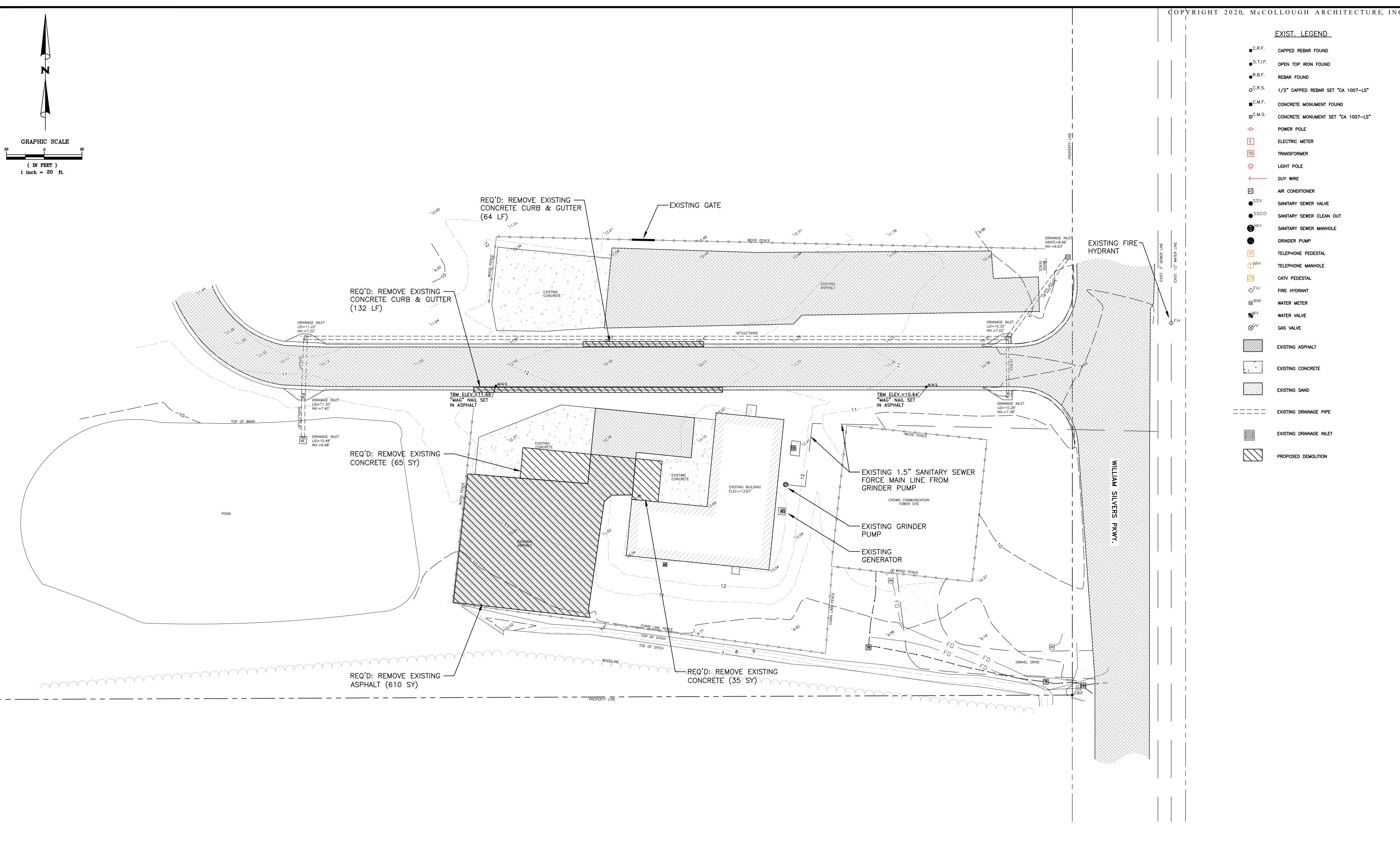
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SCALE:

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TBD

PROJECT NOTES



CONCRETE MONUMENT SET "CA 1007-LS"



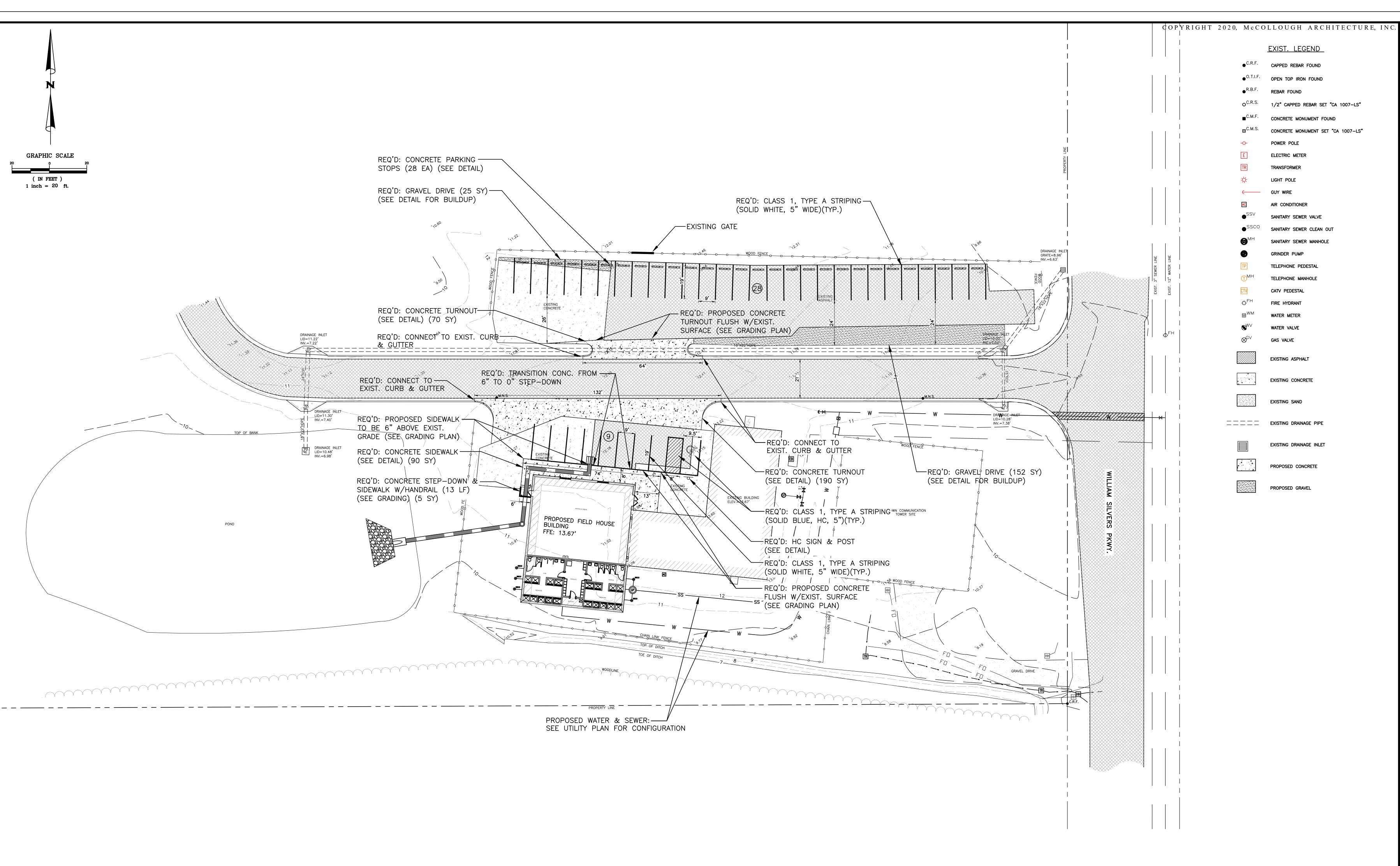




JOB NO.: DRAWN: SBM CHECKED: 11.16.2020 DATE: REVISION:

SCALE:

EXISTING CONDITIONS



McCollough Architecture, Inc. P.O. BOX 6310 GULF SHORES, ALABAMA 36547-6310 PHONE: 251-968-7222



NEW BUILDING EXPANSION
FOR

JOB NO.:
DRAWN: JF
CHECKED: JHR
DATE: 11.16.2020
REVISION:

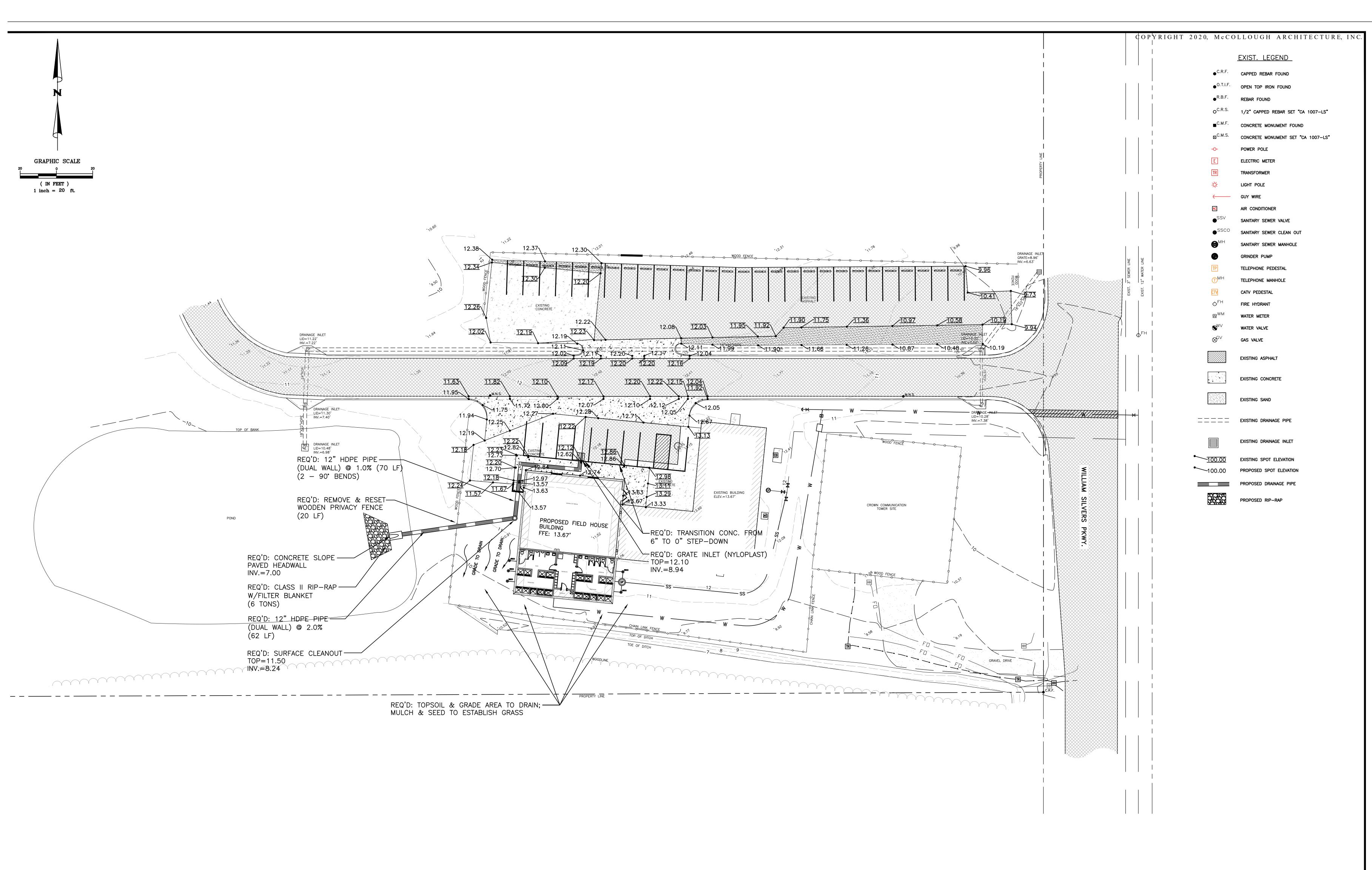
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PROPOSED SITE PLAN

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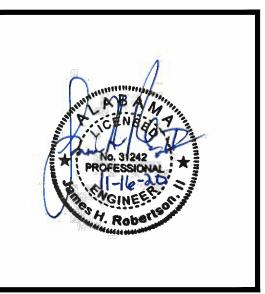




PREPARED BY:







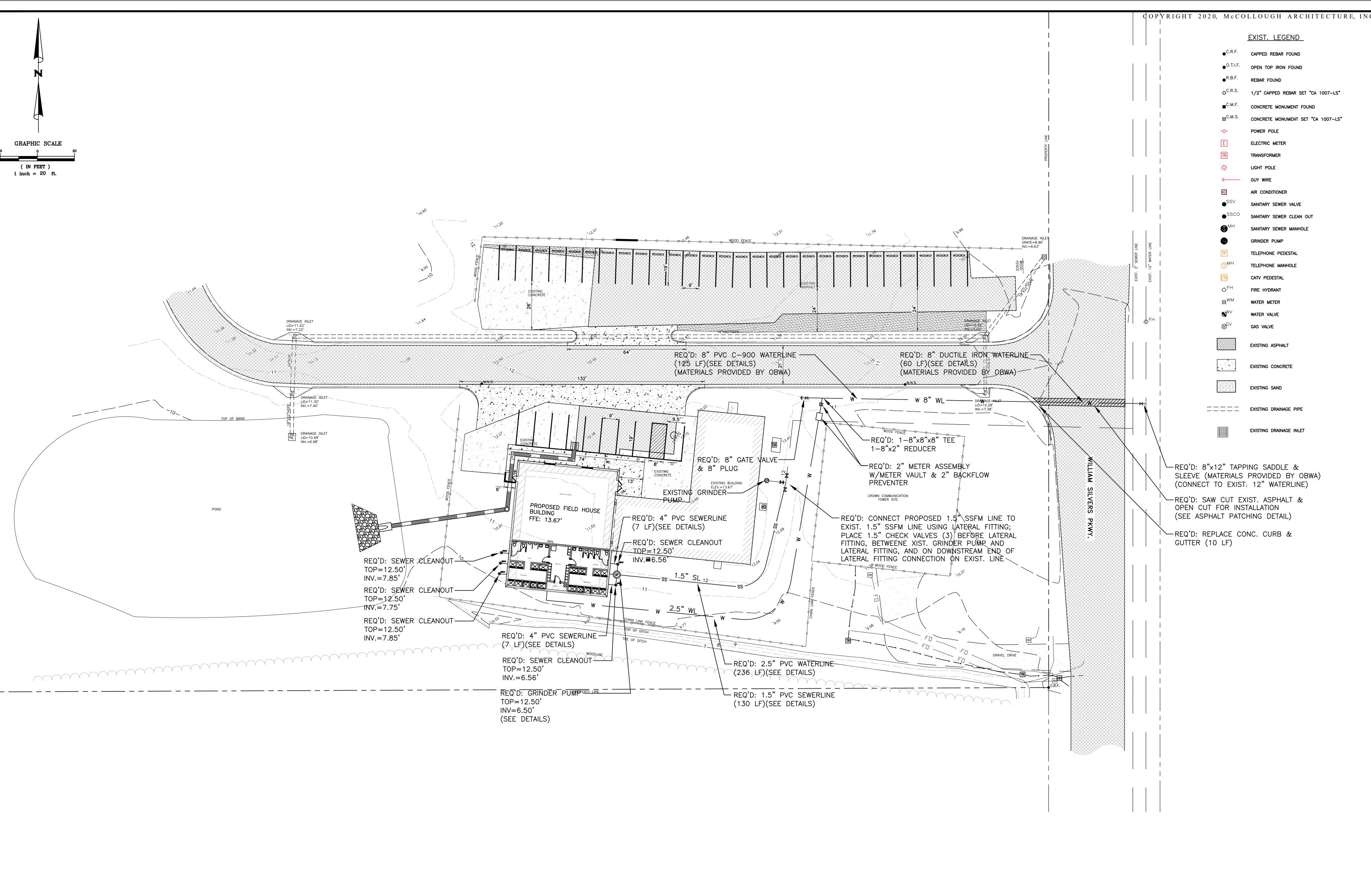
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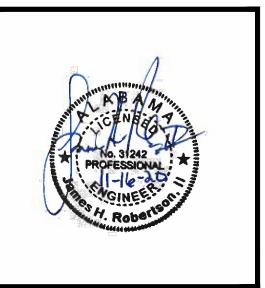
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GRADING & DRAINAGE







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REVISION:

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30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527

SCALE:

JOB NO.:

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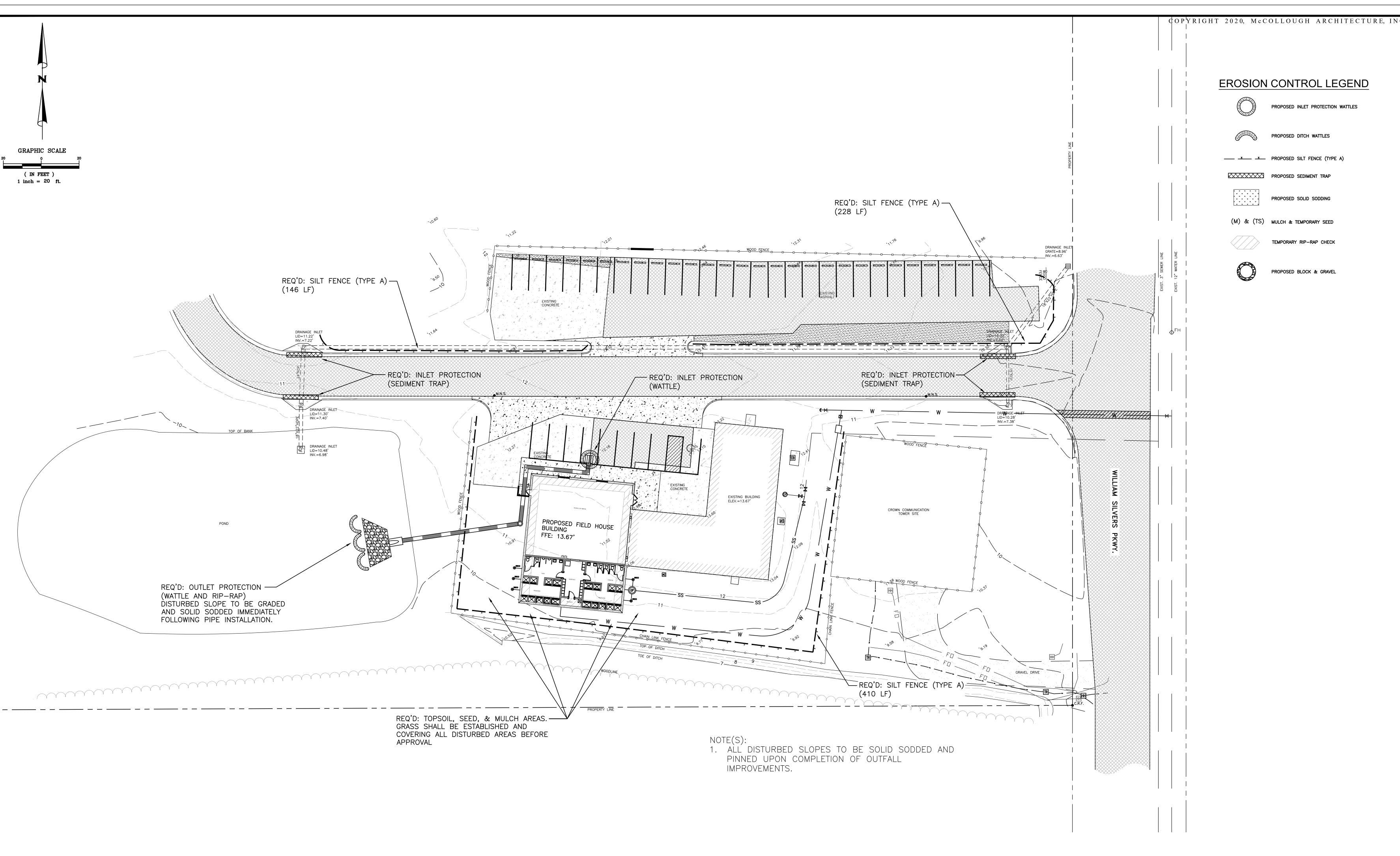
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DATE:

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11.16.2020

UTILITY PLAN



EROSION CONTROL LEGEND



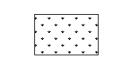
PROPOSED INLET PROTECTION WATTLES



PROPOSED DITCH WATTLES



____ × __ × PROPOSED SILT FENCE (TYPE A)



PROPOSED SOLID SODDING





PROPOSED BLOCK & GRAVEL

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JOB NO.: DRAWN: CHECKED: 11.16.2020 DATE: REVISION:

EROSION CONTROL PLAN

5. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY

6. RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE

POSTS SHALL BE NINE (9) GAUGE, GALVANIZED, 1 1/2" LONG, FIVE (5) PER POST @ APPROXIMATELY 1'-0" ON CENTER.

SPECIFICATIONS

ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CURRENT EDITION

7. IF WOOD POSTS ARE USED, STAPLES FOR SECURING WOVEN WIRE TO

SECTION

CURTAILED, SILT FENCES SHALL BE REMOVED.

8. WOVEN WIRE TO BE 12 1/2 GAUGE (MINIMUM).

SHALL BE 13 GA. (AMERICAN).

2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.

4. STAPLES SPACED 18 INCHES APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE

CHANNEL-STAPLES SPACED TO INCHES APART. ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.

NOT TO SCALE

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ESC-300-4

3. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.

WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT

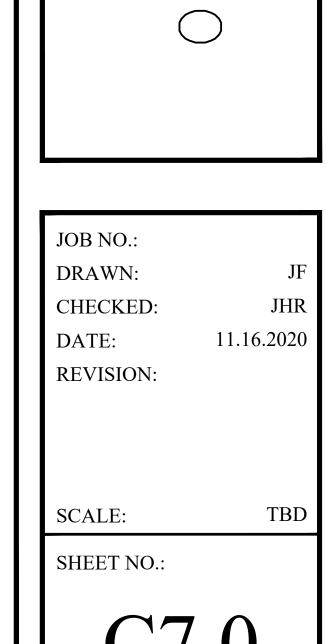
TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.

UNDERLAYMENT

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ELEVATION DETAIL

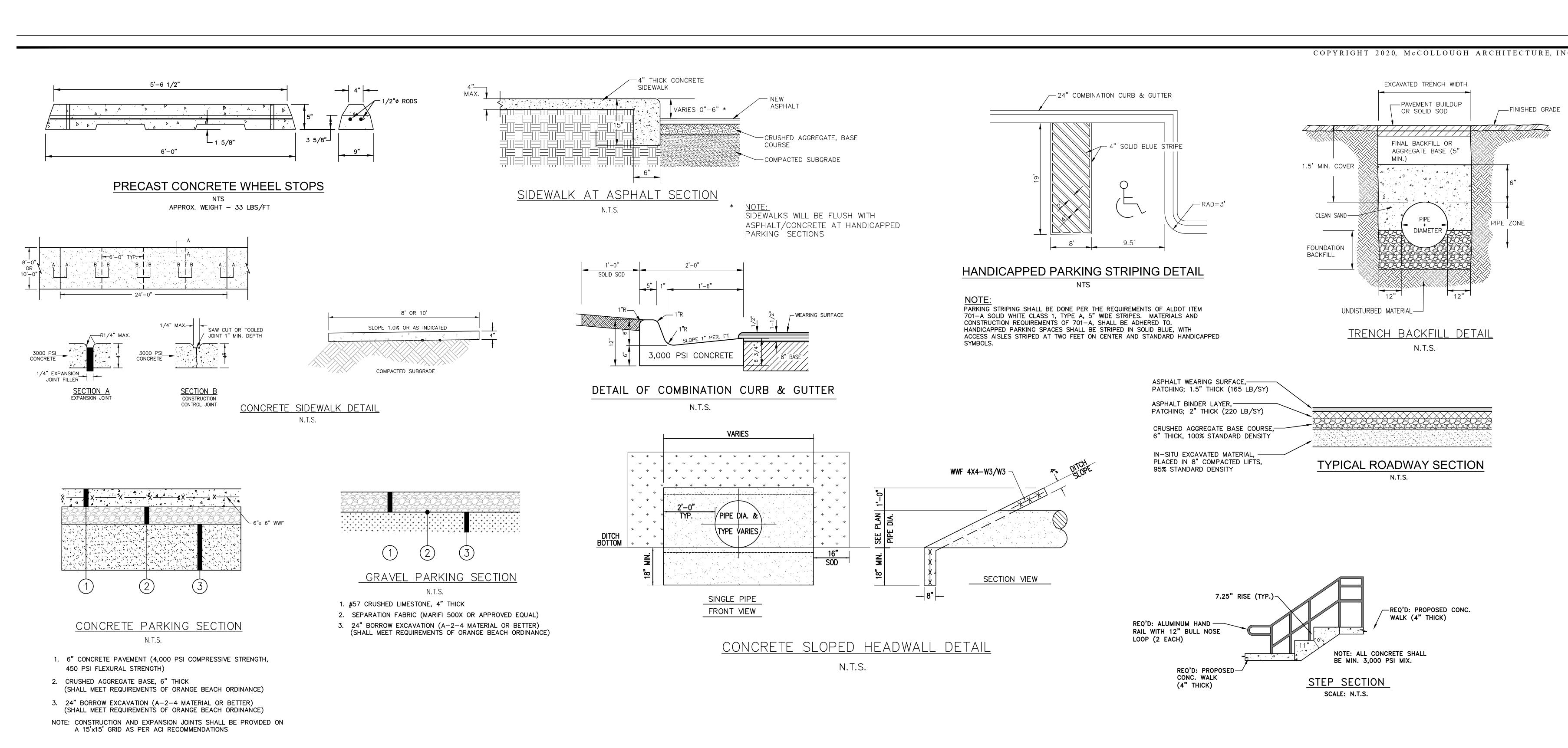
NOTE: END POINTS A MUST BE HIGHER THAN FLOWLINE POINT (B)



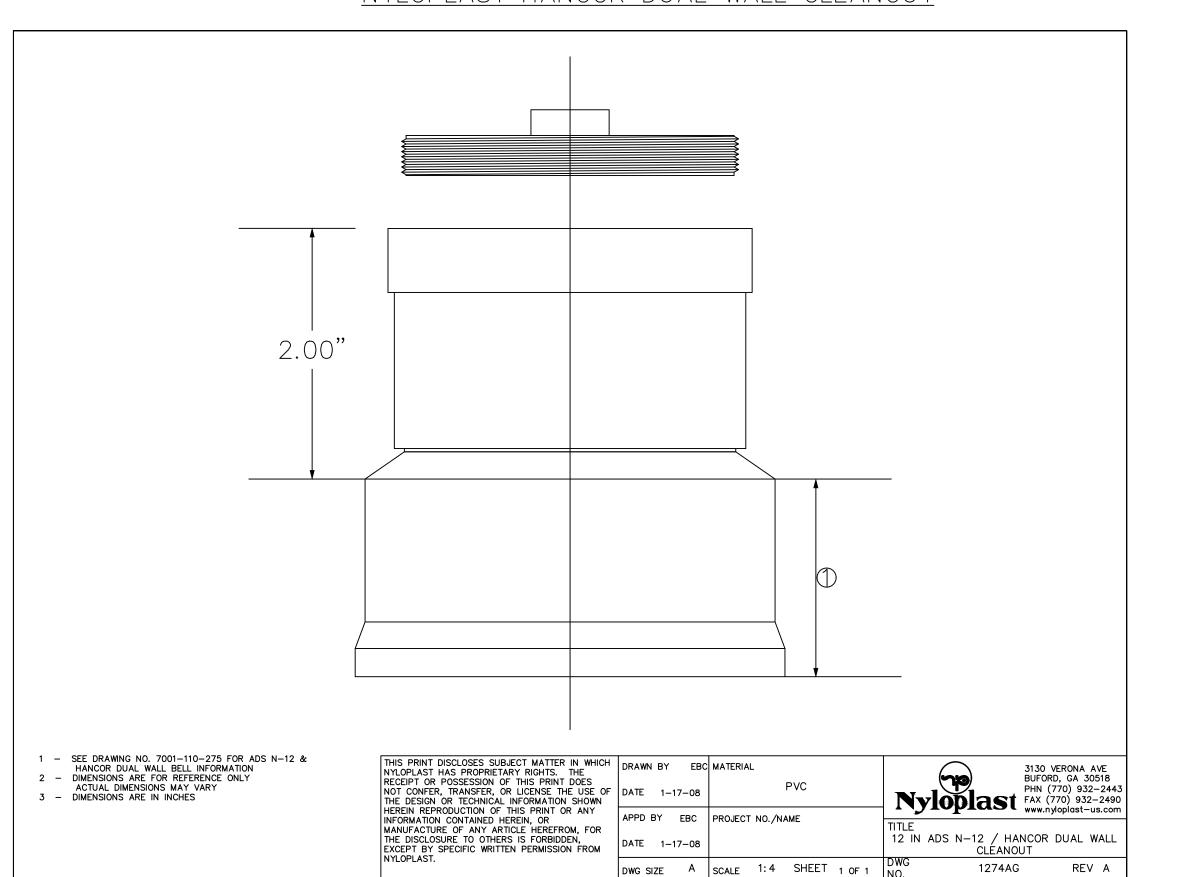
36547-6310 PHONE: 251-968-7222

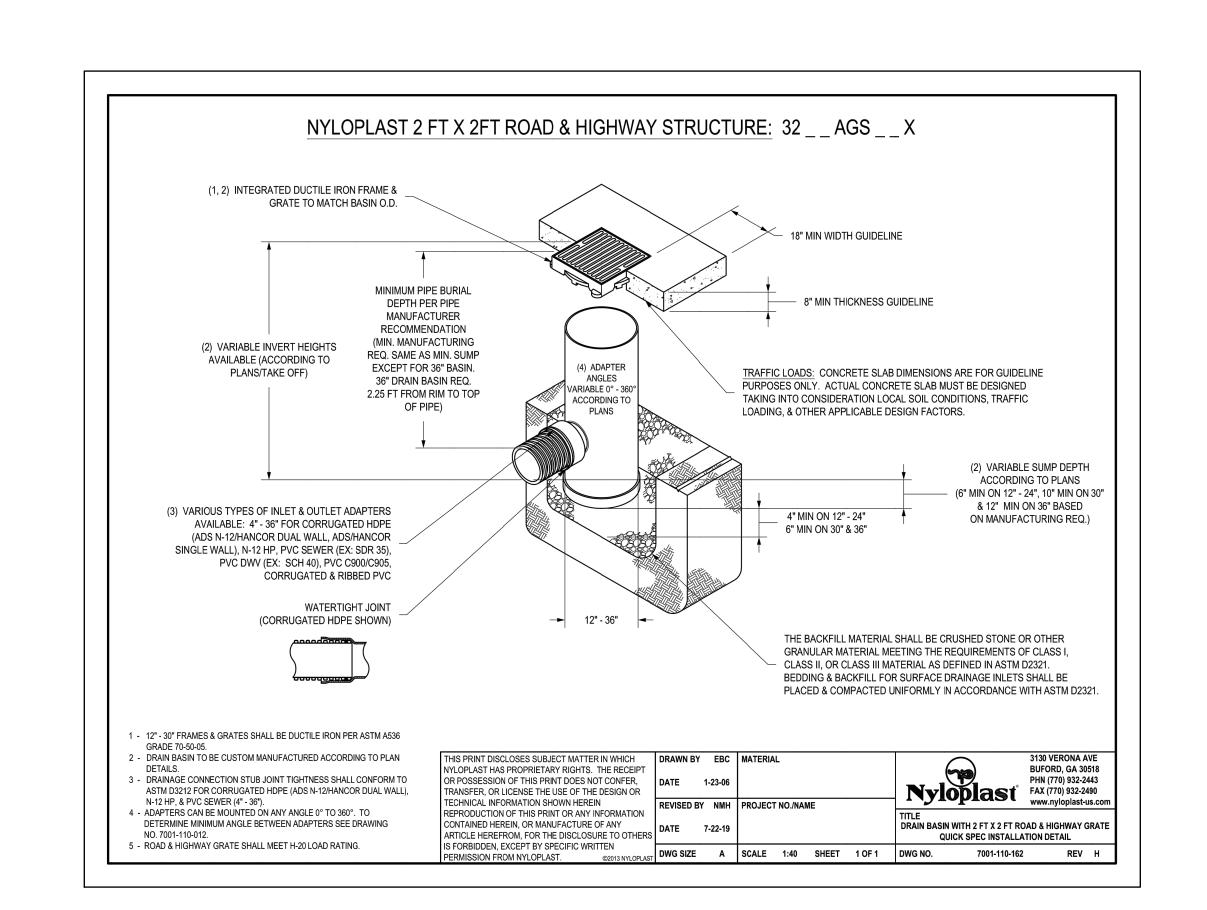
PREPARED BY: 30673 Sgt. E. I. "Boots" Thomas Drive Spanish Fort, AL 36527 Phone: (251) 544-7900 Phone: (251) 970-7900

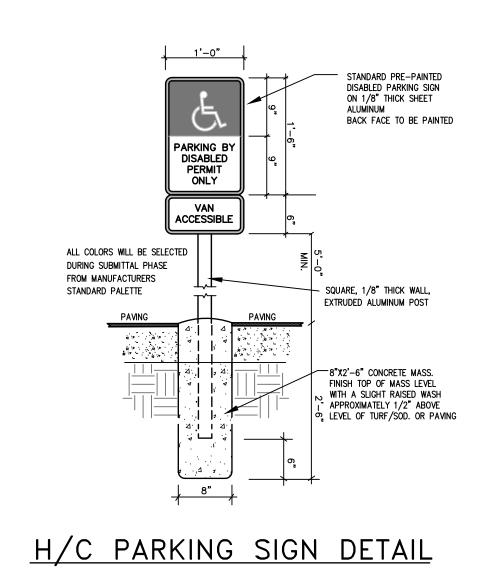
EROSION CONTROL DTLS









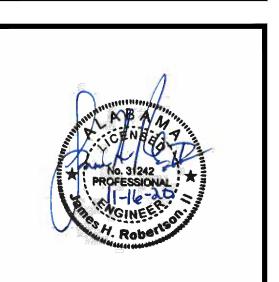


PREPARED BY:





-FINISHED GRADE



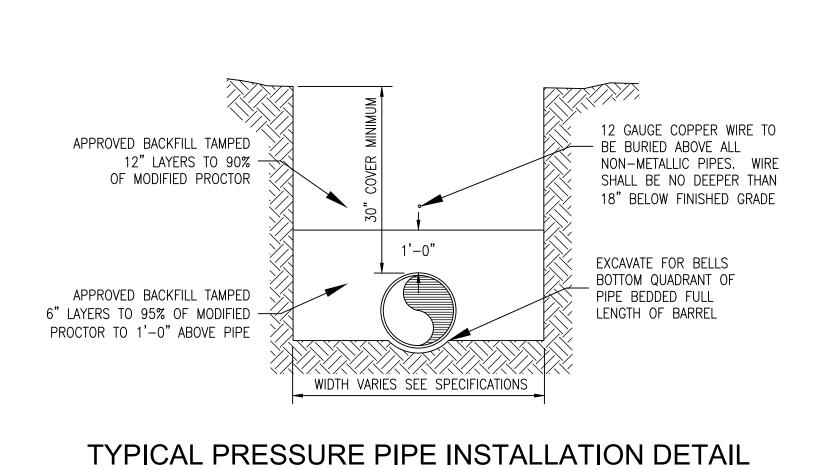
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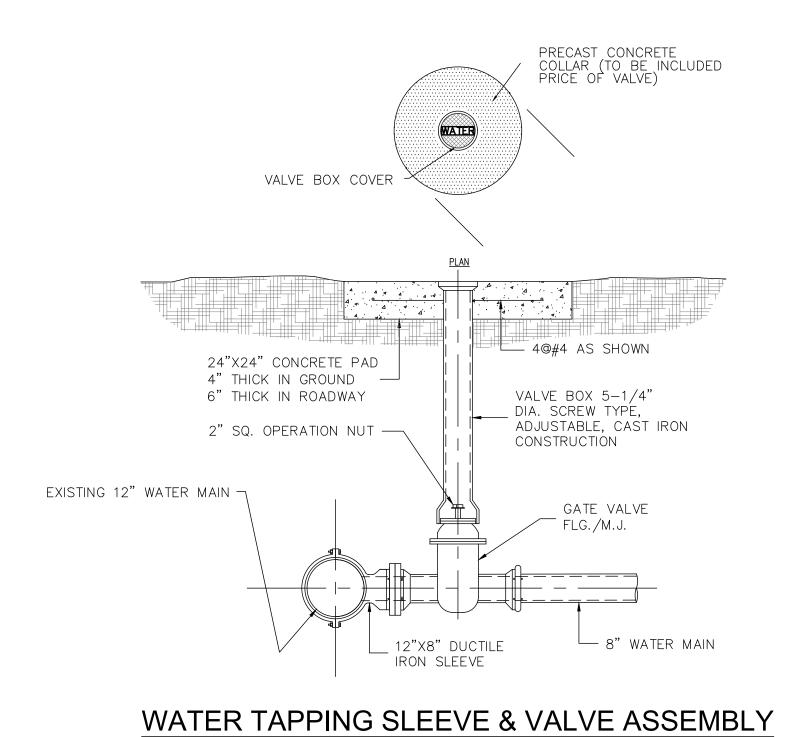
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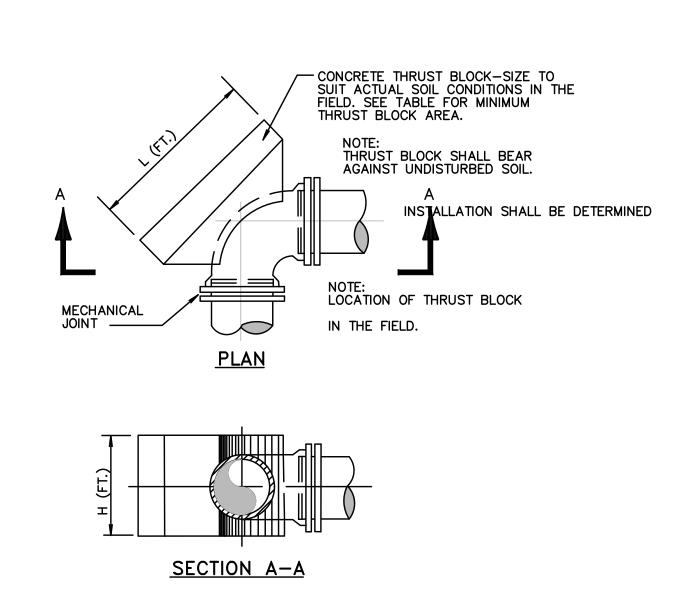
CIVIL DETAILS

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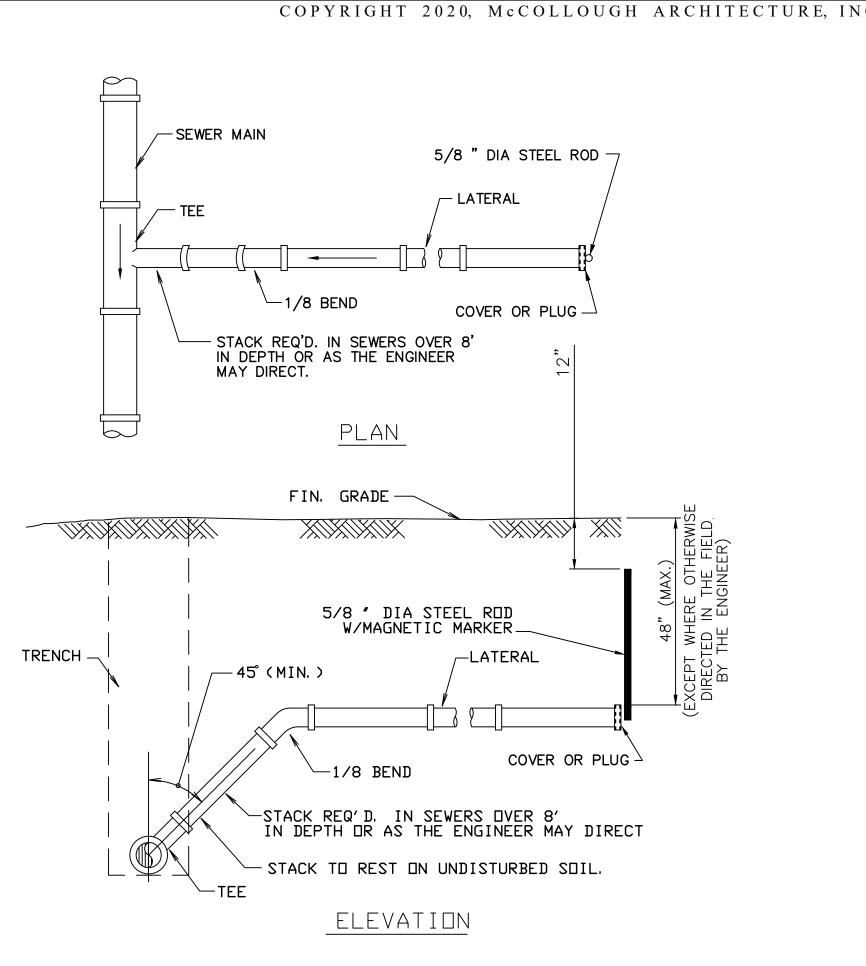


N.T.S.



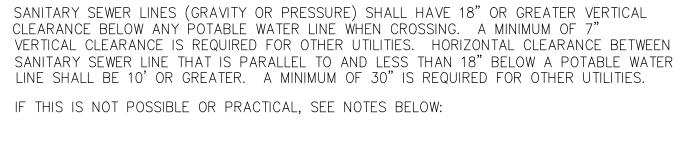
TYPICAL THRUST BLOCK DETAIL FOR BENDS

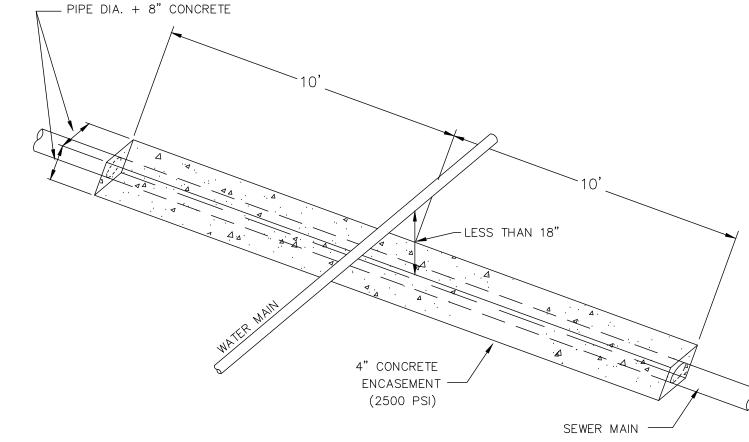
N.T.S.



TYPICAL TEE & LATERAL INSTALLATION

N.T.S.





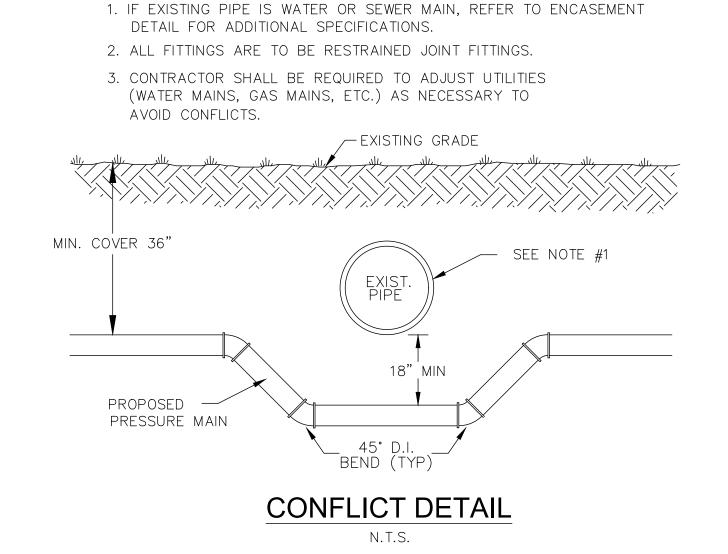
FOR CROSSING: ENCASE AS ABOVE SO THAT THE ENDS OF ENCASEMENT ARE AT LEAST 12' FROM ANY WATER LINE JOINT. WATER LINE JOINT MUST NOT BE CLOSER THAN 5' TO THE POINT OF CROSSING, OR IT MUST ALSO BE ENCASED.

ALTERNATE 1: USE EQUALLY (OR HIGHER) RATED PRESSURE PIPE FOR SEWER WITH NO JOINTS CLOSER THAN 12' APART AND 6" VERTICAL.

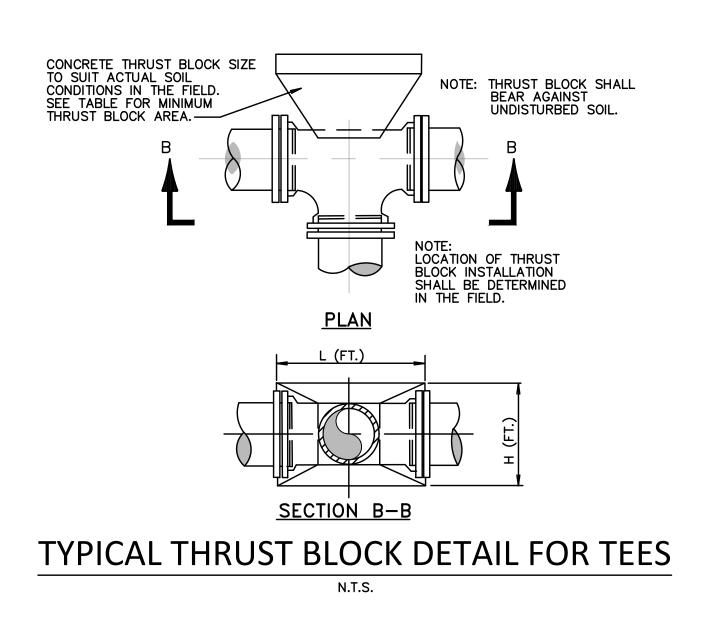
ALTERNATE 2: PLACE SEWER LINE INTO STEEL CASING AND CENTER 20' PIECE WITH 4' VERTICAL CLEARANCE AND SEAL ENDS.

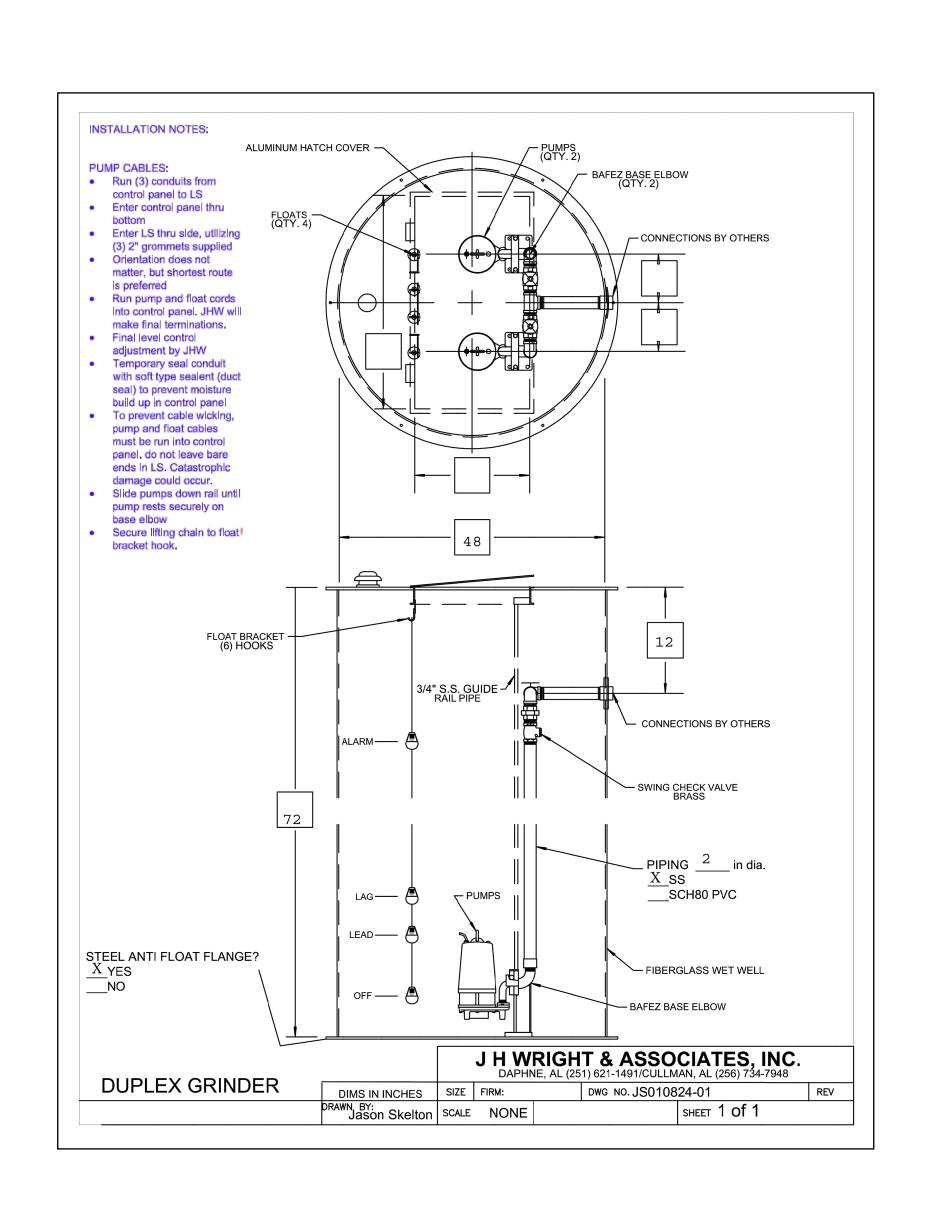
FOR PARALLEL: AND 6' TO 10' APART USE ALTERNATE 2, BUT IF MORE THAN 40' IN LENGTH, ALTERNATE 1 MUST BE USED AND JOINTS ARE TO BE STAGGERED. IF LINES MUST BE 3' TO 6' APART, ALTERNATE 1 MUST BE USED WITH A HIGHER RATED PRESSURE PIPE FOR SEWER (i.e., WATER LINE IS DR25 THEN USE DR18 OR 21 FOR SEWER).

SEWER / WATER SEPARATION & CLEARANCES N.T.S.



NOTES:





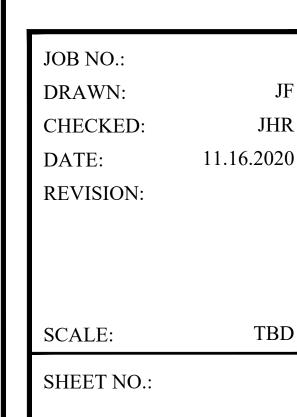
PREPARED BY:







NEW BUILDING EXPANSION FOR ORANGE BEACH, HIGH SCHOOLE ORANGE BEACH, ALABAMA



C9.0

UTILITY DETAILS

2. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND ANY APPLICABLE SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, HANGERS, INSERTS, ANCHORS, HOLES, AND OTHER ITEMS TO BE INCORPORATED INTO THE STRUCTURE.

3. THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING AND SUPPORTS REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK, CURING, CONNECTIONS, ETC. HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY, AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

4. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE

5. ALL DESIGNS OF COMPONENTS NOT SPECIFICALLY PROVIDED BY THE ENGINEER OF RECORD SHALL BE PROVIDED BY A LICENSED ENGINEER IN THE STATE OF ALABAMA. THESE COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO, DOORS, WINDOWS, LOUVERS, AND ROOFING.

GENERAL BUILDING CODE: -2015 INTERNATIONAL BUILDING CODE -ACI 318-11 BUILDING CODE FOR STRUCTURAL CONCRETE -ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS...

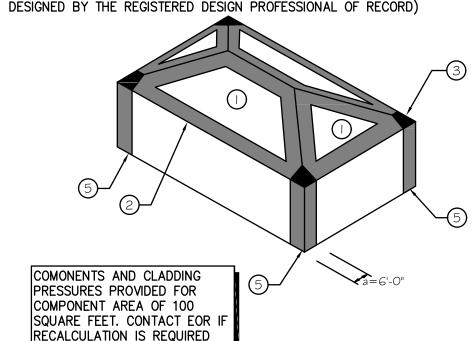
ROOF LIVE LOAD: 20 PSF ROOF DEAD LOAD: 20 PSF

3. WIND CODE:

WIND CODE: ASCE 7-16 RISK CATEGORY 157 MPH WIND SPEED: **IMPORTANCE FACTOR:** 1.0 **EXPOSURE CATEGORY:**

4. COMPONENTS AND CLADDING DESIGN WIND PRESSURES (TO BE USED FOR THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS NOT SPECIFICALLY

INTERNAL PRESSURE COEFFICIENTS: +0.18 AND -0.18



WIND COMPONENTS AND CLADDING (ELEMENTS)

ZONE	DESCRIPTION	PRESSURE
$(\overline{1})$	INTERIOR ROOF ZONE	+42.3 -77.3
2	ROOF END ZONE	+37.4, -65.5
3	ROOF CORNER ZONE	+42.1, -104.3
4	INTERIOR WALL ZONE	+46.1, -50.0
(5)	WALL END ZONE	+46.1, -61.7

5. SEISMIC PER IBC SECTION 1607: NA (WIND GOVERNS DESIGN LOADS)

SITEWORK & SOIL NOTES

1. STRUCTURAL FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR, ASTM D698, AND AT LEAST 98% OF STANDARD PROCTOR WITHIN 1'-0" BELOW CONCRETE SUBGRADE. FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES IN COMPACTED FILL THICKNESS.

2. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 1,500 P.S.F. AT MINIMUM 24" BELOW FINISHED SUB-GRADE LEVELS. MINIMUM CONTINUOUS FOOTING WIDTH IS 18 INCHES.

3. REMOVE ALL VEGETATION AND DEBRIS, INCLUDING PAVEMENTS, SIDEWALKS, BUILDING FOUNDATIONS, AND ABANDONED UTILITIES.

4. PROOFROLL THE EXPOSED SUBGRADE TO DETECT SOFT OR YIELDING SOILS. REMOVE ANY SOFT OR YIELDING SOILS, SCARIFY, MOISTURE CONDITION AND RECOMPACT IN ACCORDANCE WITH ASTM D-698.

5. PROVIDE A 10 MIL THICK VAPOR BARRIER BELOW THE CONCRETE SLAB. DO NOT PUNCTURE THE VAPOR BARRIER. LAP AND TAPE ENDS.

6. IT IS IMPERATIVE THAT THE ACTUAL BEARING GRADE BE CHECKED IN THE FIELD DURING CONSTRUCTION BY THE SOILS CONSULTANT TO ENSURE THAT THE FOUNDATION SYSTEM IS SUPPORTED BY SUITABLE BEARING SOILS AND WILL

7. PROVIDE POSITIVE DRAINAGE AWAY FROM EXCAVATIONS SO AS NOT TO ALLOW STANDING WATER FOR LONG PERIODS OF TIME.

PERFORM IN ACCORDANCE WITH THE ASSUMED CONDITIONS.

8. SOILS EXCAVATED FROM THE SITE THAT ARE FREE OF DELETERIOUS MATERIALS MAY BE USED AS FILL.

9. FOOTING EXCAVATIONS LEFT OPEN FOR MORE THAN ONE DAY SHALL BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF SOIL MOISTURE.

10. WATER SHALL NOT BE ALLOWED TO COLLECT NEAR THE FOUNDATIONS OR FLOOR SLAB AREAS OF THE BUILDING EITHER DURING OR AFTER CONSTRUCTION. UNDERCUT OR EXCAVATION AREAS SHALL BE SLOPED TO ONE CORNER TO FACILITATE REMOVAL OF ANY COLLECTED GROUND WATER OR SURFACE RUNOFF.

SITEWORK & SOIL NOTES (CONT.)

12. REFER TO GEOTECHNICAL REPORT ISSUED BY GEOCON ENGINEERING & MATERIALS TESTING, INC, DATED 09/11/2020, FOR ALL SUBSURFACE PREPARATION. CONTRACTOR TO NOTE THAT THE SITE PREPARATION PROCEDURE CONTAINED IN THE REPORT SUPERCEDES ALL SOIL AND SITE INFORMATION PROVIDED BY ENGINEER. THE GEOTECHNICAL ENGINEER OF RECORD SHALL BE RETAINED DURING CONSTRUCTION BY THE CONTRACTOR TO INSPECT EXCAVATION, PLACEMENT OF FILL, AND COMPACTION AS REQUIRED.

GENERAL CONCRETE NOTES

1. ALL CONCRETE NOT SPECIFICALLY NOTED = 4000 PSI @ 28 DAYS

2. REBAR: ASTM A615, GRADE 60 DEFORMED WELDED WIRE FABRIC: ASTM A185

3. JOINT FILLER: VINYLFORM GRADE #300 BY SONNEBORN; CERAMAR FLEXIBLE FOAM BY W.R. MEADOWS; PLASTAZOTE BY E-POXY INDUSTRIES, INC. OR APPROVED EQUIVALENT.

4. MOISTEN SUBGRADE PRIOR TO PLACING CONCRETE.

5. FOR SPECIAL WEATHER CONCRETING — HOT & COLD WEATHER CONCRETING — FOLLOW ALL APPLICABLE ACI SPECIFICATIONS

6. CONCRETE FINISHES:

A. BROOM FINISH AT EXTERIOR CONCRETE. 1. WHEN CONCRETE HAS HARDENED SUFFICIENTLY, IT SHALL BE FLOATED TO A COMPACT AND SMOOTH SURFACE, FLOATING MAY BE ACCOMPLISHED WITH WOOD

OR METAL FLOATS OR BY MECHANICAL FLOAT. 2. AFTER FLOATING IS COMPLETED AND THE CONCRETE HAS HARDENED ENOUGH SO THAT IT WILL RETAIN THE SCORING, BRUSH THE SURFACE WITH A STEEL WIRE BROOM OR ONE MADE FROM STIFF COARSE FIBERS IN A DIRECTION TRANSVERSE TO THE DIRECTION OF TRAFFIC.

B. TROWELLED FINISH AT INTERIOR CONCRETE.

1. AFTER FLOATING IS COMPLETED AND THE CONCRETE HAS HARDENED ENOUGH SO THAT WATER AND FINE MATERIAL ARE NOT WORKED TO THE SURFACE, THE SURFACE SHALL BE THOROUGHLY TROWELLED BY MACHINE TROWELLING WITH A MOTOR DRIVEN ROTARY TROWEL. THE MACHINE COMPACTING, HAND AND MACHINE TROWELLING OPERATIONS SHALL LEAVE A SMOOTH, HARD, IMPERVIOUS, EVEN

C. THE HORIZONTAL SURFACES OF PUMP PADS, COLUMN PEDESTALS, TOPS OF WALLS, EQUIPMENT FOUNDATIONS REQUIRING GROUT, STAIR TREADS AND CONCRETE PADS FOR STAIRS SHALL RECEIVE A WOOD FLOAT FINISH UNLESS OTHERWISE SPECIFIED.

D. VERTICAL SURFACES OF EXPOSED AREAS ARE TO RECEIVE A RUBBED FINISH USING A WOOD OR STEEL FLOAT OR BURLAP TO APPLY THE GROUT. EXCESS GROUT SHALL BE REMOVED.

7. DUSTING WITH ANY MATERIAL TO ABSORB SURFACE WATER IS PROHIBITED.

8. IMMEDIATELY AFTER FORMS ARE REMOVED, FILL ALL HONEYCOMB DEPRESSIONS OR OTHER VOIDS TO OBTAIN STRAIGHT AND FLUSH SURFACES.

9. VERTICAL SURFACES SHALL HAVE ALL TIE HOLES AND SURFACE IMPERFECTIONS CORRECTED WITH MORTAR.

APPLY LIQUID CURING COMPOUND TO HORIZONTAL SURFACES AS SOON AS POSSIBLE AFTER FINISHING, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CURE VERTICAL SURFACES BY LEAVING FORMS IN PLACE A MINIMUM OF (7) DAYS.

11. REBAR DETAILING SHALL BE PER THE LATEST EDITION OF THE ACI BUILDING CODE AND DETAILING MANUAL.

IN GENERAL, CONSTRUCTION JOINTS SHALL BE PLACED WHERE SHOWN ON THE DRAWINGS. JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE PROJECT ENGINEER AND SHALL BE LOCATED AND MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. ALL JOINTS SHALL BE KEYED AND DOWELED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WHERE A JOINT IS TO BE MADE, THE SURFACE OF THE CONCRETE SHALL BE THOROUGHLY CLEANED AND ALL LAITANCE REMOVED. IN ADDITION, VERTICAL JOINTS SHALL BE THOROUGHLY WETTED, AND SLUSHED WITH A COAT OF NEAT CEMENT GROUT IMMEDIATELY BEFORE PLACING OF NEW CONCRETE.

13.EARLY ENTRY SAW CUTTING SHOULD BE PERFORMED IN GREEN CONCRETE AS SOON AS SUFFICIENT CURING HAS TAKEN PLACE TO SUPPORT THE WEIGHT OF THE OPERATOR AND SAW. CUTS SHOULD BE PERFORMED USING A BLADE SPECIFICALLY DESIGNED FOR DRY EARLY ENTRY CUTTING.

14.CONTINUOUS FOUNDATION BARS SHALL HAVE SPLICES STAGGERED A MINIMUM OF 4'-0". ALL LAP SPLICES SHALL BE MADE WITH A MINIMUM LENGTH OF 36 BAR DIAMETERS. MAKE ALL BARS CONTINUOUS AROUND CORNERS BY USE OF CORNER

15.DETAIL BARS IN ACCORDANCE WITH A.C.I. DETAILING MANUAL AND A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITIONS. NO WELDING OF REINFORCEMENT SHALL BE ALLOWED UNLESS NOTED OR OTHERWISE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.

16.PROVIDE THE FOLLOWING CONCRETE COVER FOR ALL REINFORCEMENT: 1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3" 2. ALL OTHER AREAS = $1 \frac{1}{2}$

17.PROVIDE 3/4" CHAMFER OR RADIUS ON ALL EXPOSED CORNERS.

18. CONTRACTOR SHALL NOT PLACE ANY CONCRETE REINFORCEMENT UNTIL REINFORCING SHOP DRAWINGS HAVE BEEN SUBMITTED, REVIEWED AND RETURNED BY THE ARCHITECT AND STRUCTURAL ENGINEER. REINFORCING SHOP DRAWINGS SHALL CONSIST OF BOTH "CUT" AND PLACING SHEETS. PLACING SHEETS SHALL CONTAIN ALL INFORMATION NECESSARY TO POSITION ALL REINFORCING STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. ARCHITECTURAL AND STRUCTURAL DRAWINGS ARE NOT PERMITTED FOR USE AS SHOP DRAWINGS. ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED IN ANY MANNER FOR USE AS SHOP DRAWINGS.

19.EMBEDMENT AND LAP SPLICES OF ALL REINFORCEMENT SHALL CONFORM TO THE

FOLLOWING SCHEDULES, UNLESS NOTED OTHERWISE. A. EMBEDMENT LENGTHS: #3 - 14**"** #6 – 28" #9 – 54" #4 - 14**"** #10 - 60**"** #7 - 42**"**

#8 – 48" #5 – 24" #11 - 66**"** B. LAP SPLICE LENGTHS: #6 – 37" #3 - 19" #9 *-* 70" #4 **–** 25" #7 - 54**"** #10 - 79**"**

#8 - 62"

#5 - 31**"**

20.THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, ENGINEERING, STRUCTURAL ADEQUACY, AND CONSTRUCTION OF ALL SOIL RETAINING STRUCTURES AND CONCRETE SHORING AND FORMWORK IN ACCORDANCE WITH THE CONTRACT

#11 – 87"

SPECIFICATIONS. 21.ALL MASONRY C.M.U. CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF A.C.I. 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

22.SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, I'm, SHALL BE MINIMUM OF 1.500 PSI.

GENERAL STRUCTURAL WOOD:

1. WOOD FRAMING SHALL COMPLY WITH THE SOUTHERN PINE INSPECTION BUREAU.

2. STRUCTURAL WOOD FRAMING 2 INCHES X 6 INCHES AND LARGER SHALL BE NO. 2 SOUTHERN PINE OR EQUIVALENT (U.N.O.).

3. WOOD COLUMNS 6 INCHES X 6 INCHES AND LARGER SHALL BE NO.1 SOUTHERN PINE OR EQUIVALENT.

4. ALL EXPOSED WOOD RAFTERS AND COLUMNS SHALL BE "SELECT" GRADE AS DESCRIBED IN AITC.

5. ALL PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED FOR MOISTURE PROTECTION.

6. GLUED-LAMINATED MEMBERS SHALL BE DOUGLAS FIR INDUSTRIAL GRADE (24F-V8) OR APPROVED EQUAL U.N.O. MEMBER SIZES ARE BASED ON 1997 NDS WESTERN

7. STUD PACKS

A. EXTERIOR CORNERS SHALL BE MADE WITH SOLID FULL HEIGHT 2x6 STUDS AND ASSEMBLED WITH MINIMUM 10D NAILS AT 8" ON CENTER. WHERE CORNER HOLD DOWNS ARE ATTACHED TO STUD PACKS AT CORNERS, DOORS, WINDOWS AND ELSEWHERE, THE STUDS SHALL BE ASSEMBLED WITH A DOUBLE ROW OF 10D NAILS AT 8" ON CENTER.

B. EXTERIOR WALL TEES SHALL BE MADE WITH AT LEAST THREE (3) FULL

HEIGHT STUDS ASSEMBLED WITH 10D NAILS AT 8" ON CENTER. C. INTERIOR WALL TEES SHALL BE MADE WITH AT LEAST TWO (2) FULL HEIGHT STUDS WITH FLATWISE BLOCKING WITH A SUM TOTAL LENGTH OF AT LEAST 50% OF THE WALL HEIGHT ASSEMBLED WITH 10D NAILS AT 8"ON CENTER.

1. ALL ROOF DECK SHALL BE APA RATED STRUCTURAL I EXTERIOR PLYWOOD

2. ROOF SHEATHING SHALL BE 15/32 INCH THICK MINIMUM U.N.O. STAGGER ROOF PANELS AND PROVIDE USP CLIPS AT EACH PANEL JOINT.

3. ALL ROOF FASTENERS SHALL MINIMUM 8D (0.113" X 2-3/8") IRREGULAR SHANK (I.E., RING SHANK OR SPIRAL) NAILS WITH FULL ROUND HEADS. STAPLES ARE NOT PERMITTED FOR FASTENING OF THE ROOF DECKING.

4. ROOF DECKS SHALL BE NAILED IN ACCORDANCE WITH THE FOLLOWING: 4 INCHES ON CENTER ALONG PANEL EDGES AND IN THE FIELD FOR ZONE 4 INCHES ON CENTER ALONG PANEL EDGES AND IN THE FIELD FOR ZONES 2 & 3 REFER TO WIND DIAGRAM ON THIS SHEET FOR DESCRIPTION OF ZONES

WHERE CONDITIONS ARE NOT SPECIFICALLY DETAILED ON DRAWINGS; CONTRACTOR TO VERIFY THAT STRAPS AND/OR HOLDOWNS IN COMPLIANCE WITH THE 2018 IBC BE PROVIDED FOR ALL LOAD BEARING/SHEAR WALL FRAMING CONNECTIONS

SPECIAL INSPECTIONS:

1. THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF ALL TESTING AND INSPECTIONS INDICATED ON THE PLANS AND IN THE SPECIFICATIONS, INCLUDING SPECIAL INSPECTIONS REQUIRED BY THE BUILDING CODE. THE ACTUAL CONTRACTING OF THE INSPECTION AND TESTING SERVICES SHALL BE IN ACCORDANCE WITH THE DIVISION OF RESPONSIBILITY DICTATED BY THE LOCAL BUILDING CODE.

2. IBC SECTION 1704 REQUIRES THAT IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 109, THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION OF CERTAIN TYPES OF WORK.

3. "SPECIAL INSPECTION" CONCERNS WORK REQUIRING OBSERVATION AND JUDGEMENT AND SHALL BE PERFORMED BY A STRUCTURAL ENGINEER (OR A DESIGNATED PERSON UNDER THE SUPERVISION OF THE ENGINEER). "TESTING" INVOLVES THE ANALYSIS OF MATERIALS IN ACCORDANCE WITH APPROVED STANDARDS AND SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY.

4. THE CONTRACTOR SHALL COORDINATE THE TESTING AND INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PRIOR NOTICE TO THE TESTING AND/OR INSPECTION AGENCY OF THE REQUIRED WORK TO ALLOW PROPER SCHEDULING OF PERSONNEL. THE COST OF ANY RETESTING OR ADDITIONAL INSPECTIONS AS A RESULT OF FAILED TESTS AND REJECTED WORK SHALL BE BORNE BY THE CONTRACTOR.

5. THIS PROJECT REQUIRES A STRUCTURAL TESTING AND SPECIAL INSPECTION SCHEDULE, TO BE SIGNED BY THE OWNER, CONTRACTOR, ARCHITECT, STRUCTURAL ENGINEER OF RECORD AND TESTING AGENCY. REFER TO THE PROGRAM SUMMARY SCHEDULE FOR FREQUENCY OF TESTING AND INSPECTIONS.

	REQUIRED SPECIAL INSPECTIONS										
DE	SCRIPTION OF WORK IBC	INSP	ECTION	TES	TING	REMARKS					
SE	CTION 1704	YES	NO	YES	NO	TVEW/ IVV					
1.	Concrete Construction (1704.4)	•				6A					
2.	Wood Assemblies (1704.6)	•				6B					
3.	Steel Construction (1704.3)					6C					
4.	Masonry (1704.5)					6D					
5.	Soils (1704.7)		•			6E					

6. SPECIAL INSPECTION WORK REQUIRED INCLUDE CONVENTIONAL TESTING NOT STRICTLY A PART OF SECTION 1704 BUT ARE REQUIRED FOR ADEQUATE QUALITY ASSURANCE AND CAN BE PROVIDED BY THE CONTRACTOR. ALL OTHER WORK MUST BE PROVIDED BY THE OWNER AS INDICATED BY THE INTERNATIONAL BUILDING CODE

6A. CONCRETE TESTING

A. PROVIDE MIX DESIGN IN ACCORDANCE WITH ACI REQUIREMENTS. B. TEST CONCRETE AT THE TIME OF POURING FOR SLUMP, AIR-ENTRAINMENT, AND TEMPERATURE IN ACCORDANCE WITH THE SPECIFICATIONS.

C. MAKE AND TEST CONCRETE CYLINDERS FOR REPRESENTATIVE STRENGTH IN ACCORDANCE WITH THE SPECIFICATIONS.

D. PROVIDE PERIODIC VISUAL INSPECTION OF REINFORCING: - VISUAL INSPECTION OF 25% OF CONTINUOUS STRIP

FOOTINGS PRIOR TO POUR - VISUAL INSPECTION OF 50% OF SLAB ON GRADE

A. PROVIDE VERIFICATION OF QUALITY CONTROL/QUALITY ASSURANCE

PROGRAM REGARDING FABRICATION PROCESS. B. PROVIDE VISUAL INSPECTION OF TRUSS ERECTION PROCEDURES ON TRUSSES OVER 60 FEET IN LENGTH. VERIFY TRUSS INSTALLATION COMPLIES WITH REFERENCED DOCUMENT BCSI 1-03 FOR THE FOLLOWING ITEMS:

- PROPER LIFTING PROCEDURES INCLUDING USE OF STIFFBACKS AND SPREADER BARS. - PROPER INTERIOR GROUND BRACING DESIGNED BY THE

CONTRACTOR'S STRUCTURAL ENGINEER AND BCSI 1-03. - INSTALLATION OF REQUIRED TOP AND BOTTOM CHORD TEMPORARY

- INSTALLATION OF PERMANENT CONTINUOUS LATERAL BRACING (CLB) FOR WEB MEMBERS AS SPECIFIED BY THE TRUSS SUPPLIER AND THE REQUIRED DIAGONAL BRACING FOR THESE 6C. STEEICLBS PER BCSI 1-03.

A. MATERIAL VERIFICATION OF HIGH-STRENGH BOLTS, NUTS AND WASHERS B. REVIEW PRE-ENGINEERED BUILDING MANUFACTURER'S CERTIFICATE OF C. COMPLIANCE

D. INSPECTION OF HIGH-STRENGTH BOLTED CONNECTION TYPES E. MATERIAL VERIFICATION OF HIGH-STRENGH BOLTS, NUTS AND WASHERS

F. MATERIAL VERIFICATION OF WELD FILLER MATERIALS G. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:

- DETAILS SUCH AS BRACING AND STIFFENING MEMBER LOCATIONS

BRACING AS REQUIRED BY BCSI 1-03.

APPLICATION OF DETAILS AT EACH CONNECTION

A. DESIGN OF MASONRY BASED ON NET AREA COMPRESSIVE STRENGTH OF MASONRY = 1750 PSI. INSPECTIONS MAY BE PERFORMED IN ACCORDANCE WITH TABLE 1704.5.1.

B. PROVIDE LETTER OF CERTIFICATION FROM THE MANUFACTURER OF CONCRETE MASONRY UNITS AND SUPPLIERS OF MORTAR AND GROUT, TO ASSURE COMPLIANCE WITH THE COMPRESSIVE STRENGTHS REQUIRED. C. INSPECTION OF MASONRY CORE GROUTING - 1 INSPECTION PRIOR TO

EACH GROUTING PROCEDURE. - REINFORCING SIZE AND SPACING

6E. SOILS

A. VERIFY FOOTING EXCAVATION FOR SUITABILITY FOR PLANNED FOOTING. B. VERIFY MATERIAL USED FOR COMPACTED BACKFILL

HOT WEATHER OR COLD WEATHER PROCEDURES

C. TEST COMPACTED BACKFILL FOR SPECIFIED COMPACTION.

MASONRY:

1. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 SPECIFICATIONS.

2. ALL MASONRY C.M.U. CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF A.C.I. 530 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

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3. SPECIFIED COMPRESSIVE STRENGTH OF MASONRY, I'm, SHALL BE MINIMUM OF 1,500 PSI.

4. ALL DEFORMED REINFORCING BARS SHALL CONFORM TO ASTM A615 SPECIFICATIONS.

5. ALL REINFORCING IN MASONRY WALLS SHALL BE FULLY ENCLOSED WITH GROUT GROUT MIX SHALL CONFORM TO ASTM C 476 WITH MIN. 28 DAY COMPRESSIVE STRENGTH OF 2,500 PSI. USE GROUT TYPE (FINE OR COARSE) THAT WILL COMPLY WITH TABLE 7 (GROUT SPACE REQUIREMENTS) OF ACI 530.1-99 SPECIFICATION OF MASONRY STRUCTURES, FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHT.

6. MAKE ALL REINFORCING CONTINUOUS BY LAPPING AND PROVIDING CORNER BARS FOR ALL REINFORCEMENT. LAP SPLICES FOR REINFORCEMENT SHALL BE A MINIMUM OF 48 BAR DIAMETERS.

7. MASONRY IS TO BE LAID IN TYPE "S" MORTAR IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE SECTION 2103 AND TABLES 2103.7(1), 2103.7(2), AND 2103.7(3). TYPE "N" MASONRY CEMENT MORTAR IS NOT ACCEPTABLE.

8. MASONRY WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION TO WITHSTAND LATERAL LOADS. BRACING TO REMAIN IN PLACE UNTIL FLOOR AND OR ROOF STRUCTURE IS COMPLETELY INSTALLED.

9. ALL MASONRY C.M.U. WALLS SHALL BE LAID IN RUNNING BOND IN ACCORDANCE WITH ACI 530.

10. VERTICAL REINFORCEMENT FOR C.M.U. WALLS TO BE PLACED IN CENTER OF WALL, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. PROVIDE ALL ACCESSORIES AS REQUIRED TO SUPPORT BARS AT LOCATIONS INDICATED.

11.A QUALITY ASSURANCE PROGRAM SHALL BE USED TO ENSURE THAT THE CONSTRUCTED MASONRY IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

ABBREVIATIONS:

A.F.F. — ABOVE FINISH FLOOR B.F.F. —— BELOW FINISH FLOOR

B.O.S. —— BOTTOM OF STEEL

C.B. —— CASTELLATED BEAM

C.J. —— CONSTRUCTION JOINT

CONT.—— CONTINUOUS **E.F.** — EACH FACE

E.J. — EXPANSION JOINT

E.W. —— EACH WAY E.O.F.—— EDGE OF FOUNDATION

S.J. —— SAWN JOINT S.O.G.—— SLAB ON GRADE

T-1 --- TRUSS

T.O.C.— TOP OF CONCRETE Z — ANGLE

S.J.I. — STEEL JOIST INSTITUTE

REQ'D REQUIRED T&B —— TOP AND BOTTOM

Ø — DIAMETER

A.B. —— ANCHOR BOLT © —— CENTERLINE

CMU —— CONCRETE MASONRY UNIT CONC. — CONCRETE

CONT. — CONTINUOUS

FDN — FOUNDATION

GALV. — GALVANIZED T.O.F. TOP OF FOOTING

T.O.J. TOP OF JOIST T.O.M.—— TOP OF MASONRY

T.O.S.—— TOP OF STEEL

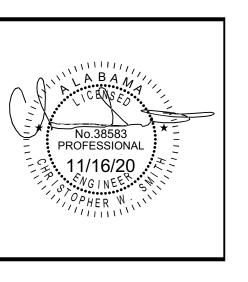
U.N.O. UNLESS NOTED OTHERWISE DBA — DEFORMED BAR ANCHOR

E.W. — EACH WAY U.N.O. UNLESS NOTED OTHERWISE

WWF —— WELDED WIRE FABRIC

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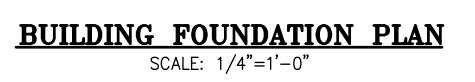
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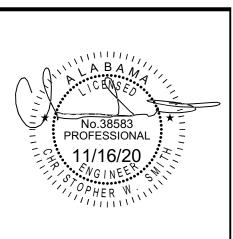
STRUCTURAL NOTES











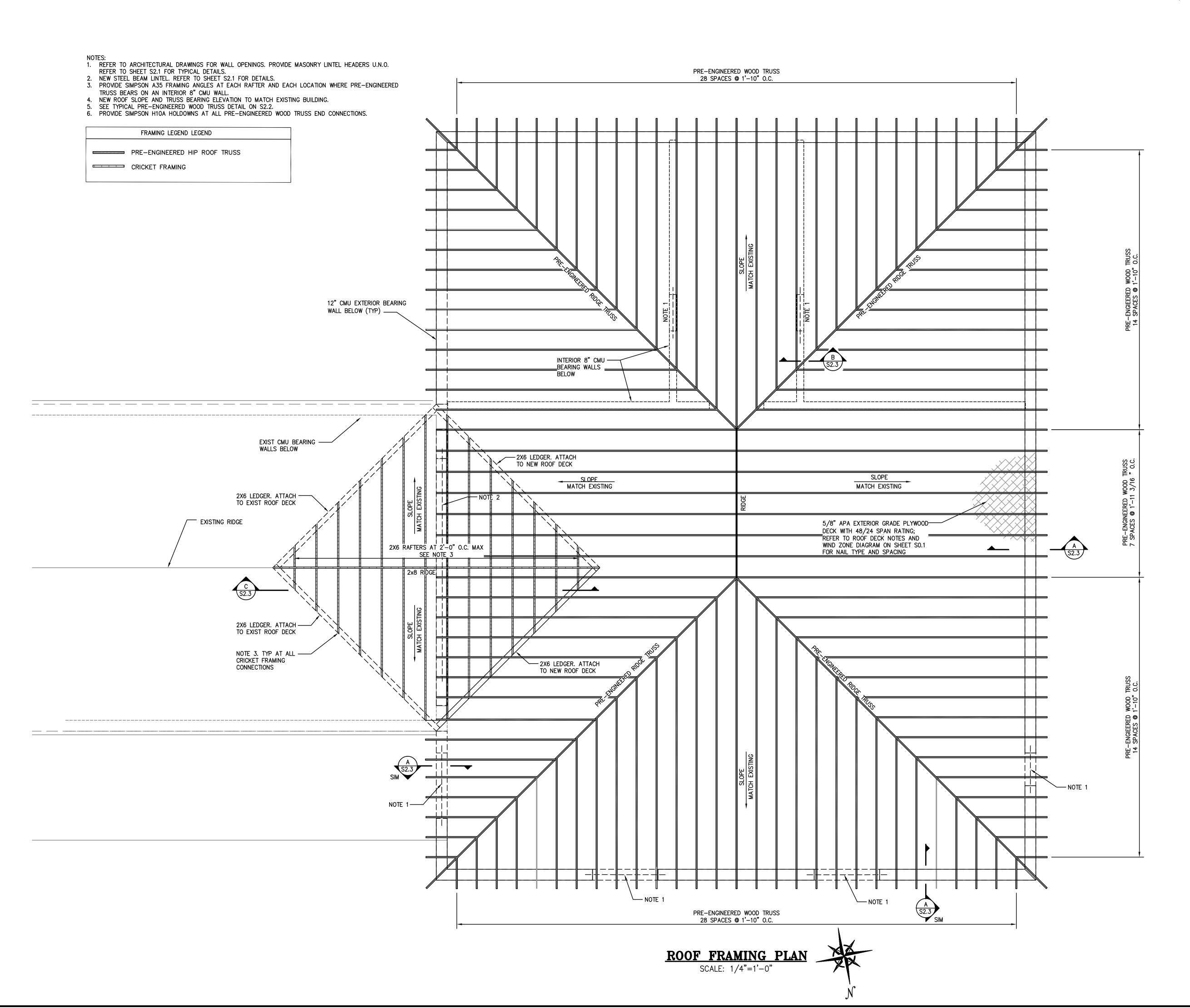
POR FOR ORANGE BEACH HIGH SCHOOL

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CHECKED: CWS
DATE: 09/24/20
REVISION: 0 IFC

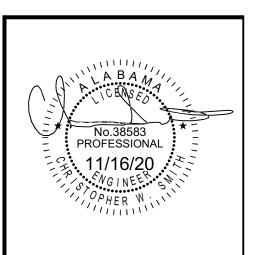
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51.1
FOUNDATION PLAN







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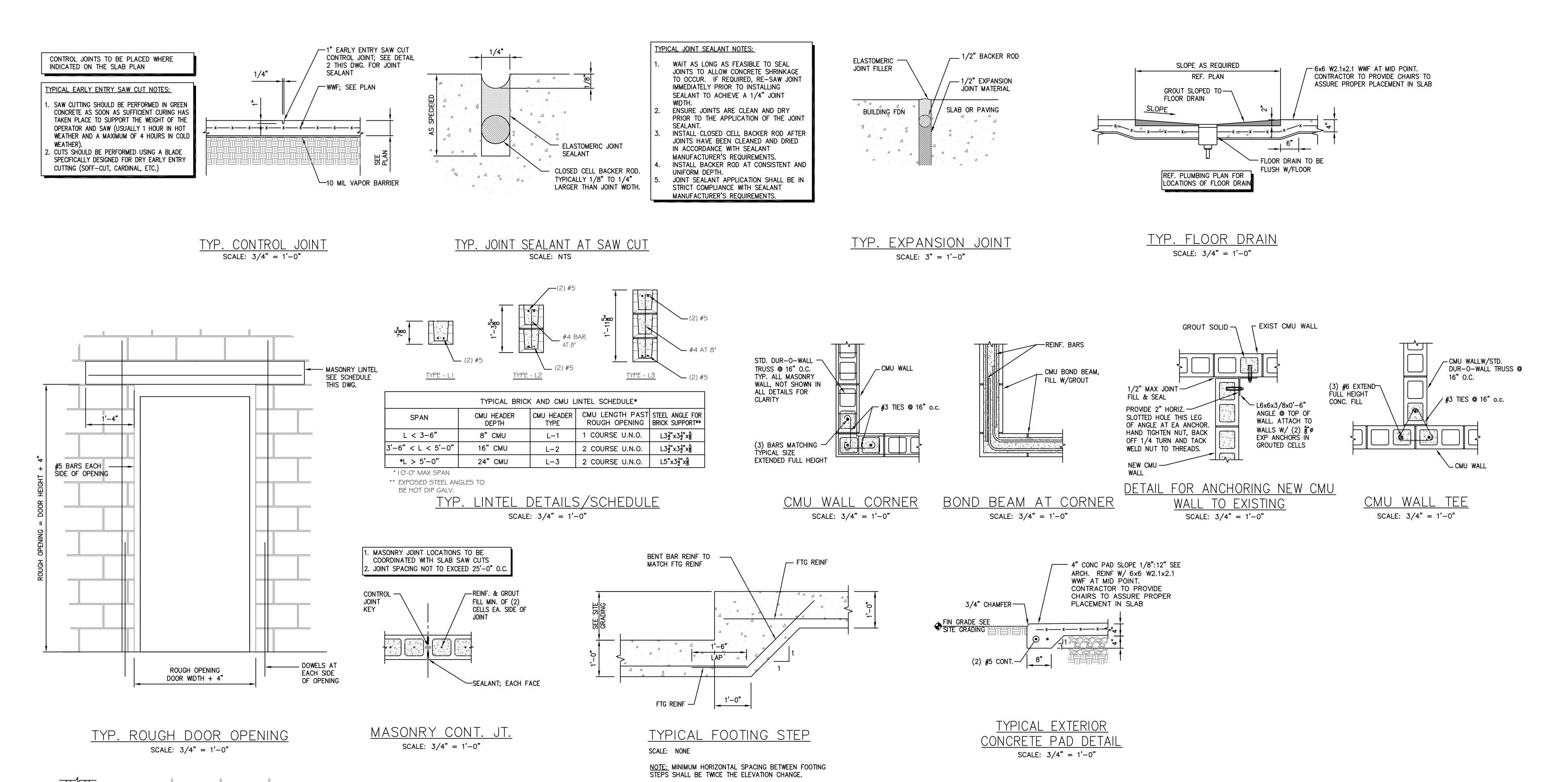
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ROOF FRAMING

PLAN



3/4"øx6" WELDED STUD AT 16" O.C.

W16x36

(2) 3/4"øx6" WELDED

- EXIST MASONRY BLOCK WALL

STEEL BEAM LINTEL DETAIL

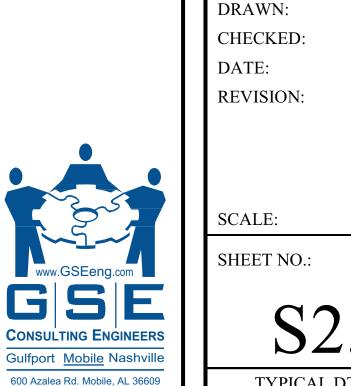
SCALE: 3/4" = 1'-0"

GROUT ALL CELLS SOLID FULL HEIGHT ABOVE STUDS

PROVIDE 16" BEAM

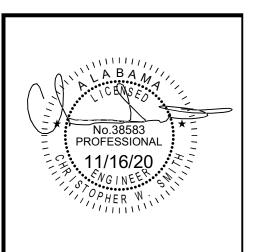
CELLS BELOW FULL

BEARING. GROUT



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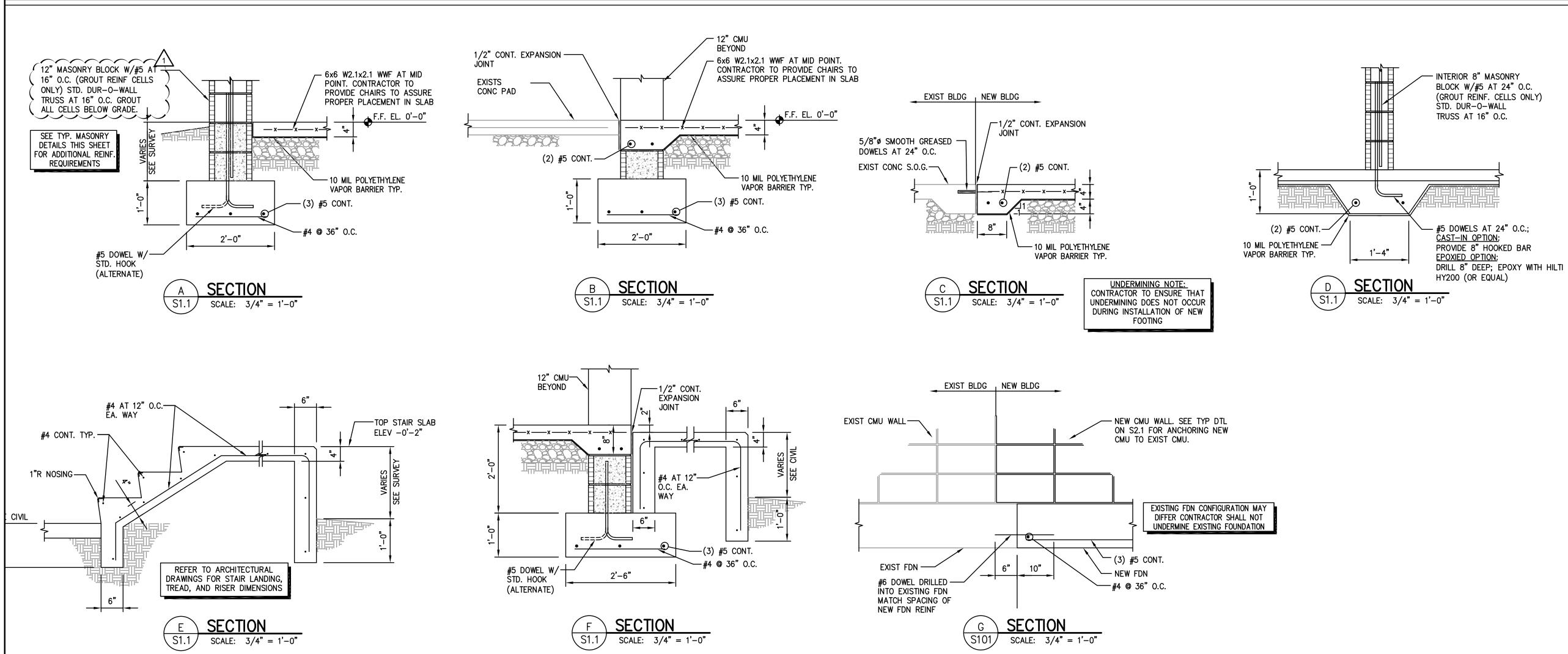
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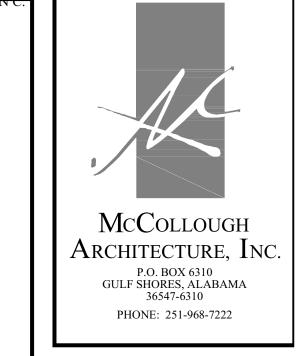
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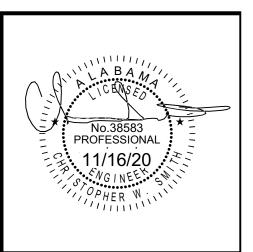
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3/4" = 1'-0"

TYPICAL DTLS & FOUNDATION SECTIONS







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3/4" = 1'-0" SCALE:

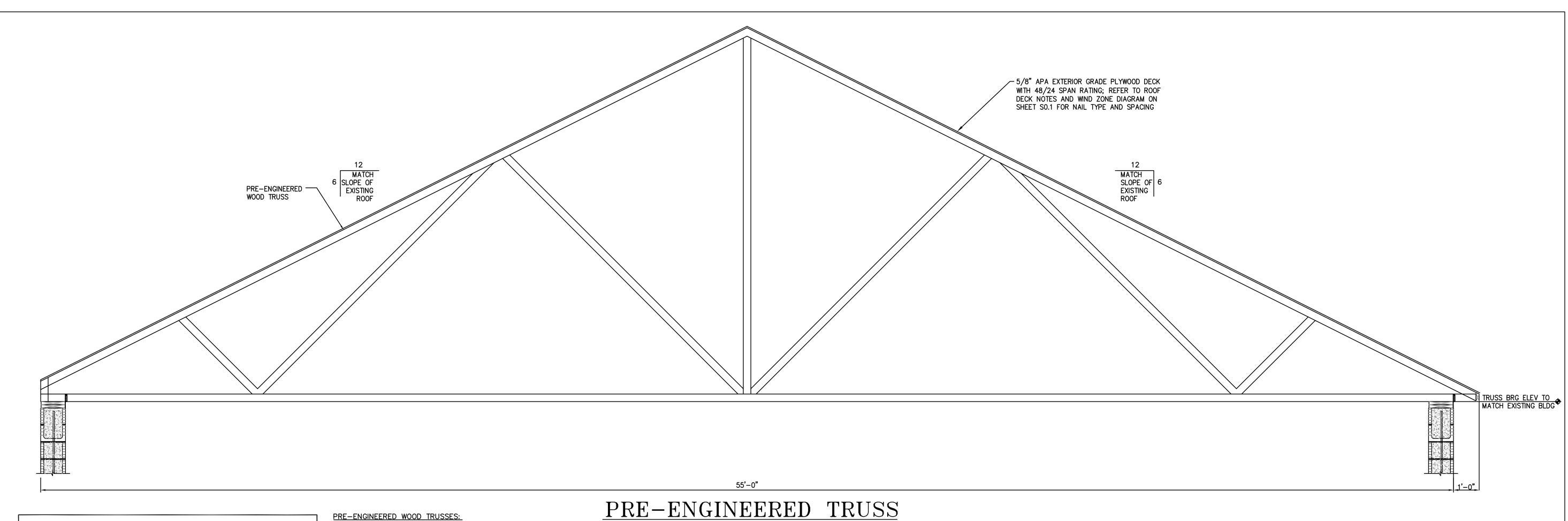
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FOUNDATION DTLS



PRE-ENGINEERED WOOD TRUSSES:

TRUSS DESIGN LOADS

ROOF

LIVE LOAD

20 PSF

(APPLY TO TOP CHORD)

10 PSF

(APPLY TO TOP CHORD)

(APPLY TO BOTTOM CHORD)

WIND SPEED = 157 MPH EXPOSURE = C

ROOF DEAD LOAD

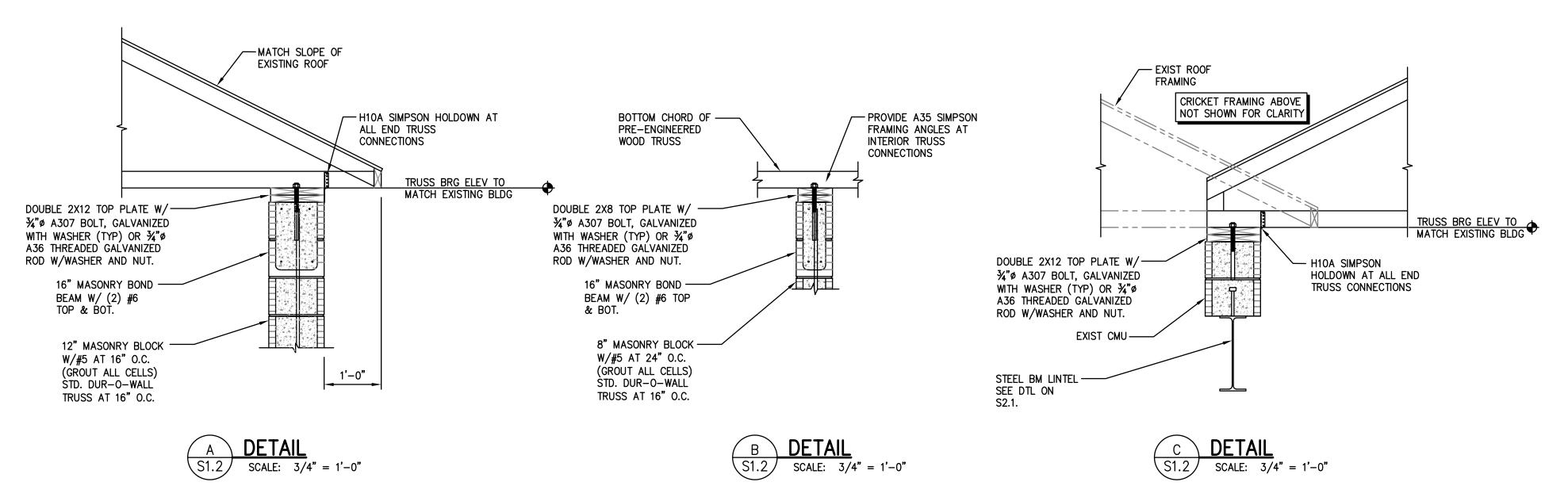
7 PSF CEILING COLLATERAL LOAD

1. FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL PRE-ENGINEERED WOOD TRUSS FRAMING AS SHOWN ON DRAWINGS. ALL TRUSS COMPONENTS AND CONNECTIONS SHALL BE DESIGNED BY QUALIFIED ENGINEER REGISTERED IN THE STATE OF ALABAMA. TRUSS MANUFACTURER DESIGN FOR THE FOLLOWING SUPERIMPOSED LOAD

TRUSS DESIGN LOADS: REFER TO TRUSS DESIGN LOADS TABLE, THIS SHEET.

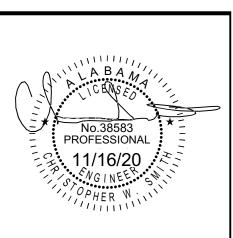
- 3. WIND LOADS SHALL BE DESIGNED PER THE 2018 INTERNATIONAL BUILDING CODE AND REFERENCED DESIGN GUIDES.
- 4. IN ADDITION TO THE SUPERIMPOSED ABOVE, TRUSSES SHALL BE DESIGNED FOR ANY CONCENTRATED LOADS HUNG AND/OR SUPPORTED BY TRUSSES.
- 5. PRIOR TO TRUSS FABRICATION, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT AND ENGINEER SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS FOR DETAILING, FABRICATION, AND ERECTION OF WOOD TRUSSES. DRAWINGS SHALL CLEARLY INDICATE SPACING, TYPE, MATERIAL AND MEMBER PROPERTIES, BRACING AND DETAILING OF ALL CONNECTIONS FOR WOOD TRUSS FRAMING.
- 6. WOOD TRUSS SHOP DRAWING SHALL BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO START OF FABRICATION.
- 7. STRUCTURAL ENGNEER'S AND ARCHITECH'S CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED FOR SHOP DRAWINGS.

SCALE: 1/2" = 1'-0"









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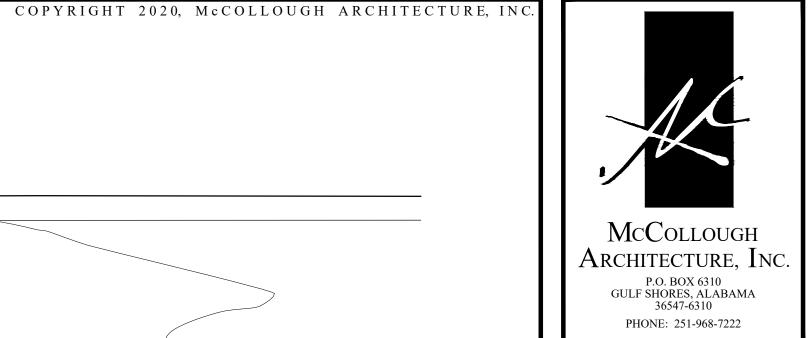
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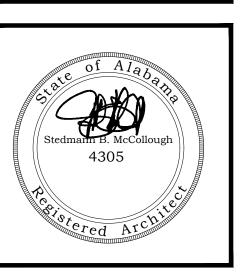
SCALE: 1/2" = 1'-0" U.N.O.

SHEET NO.:

ROOF FRAMING

ELEV & SECTIONS





S **EXPANSION** HIGH NEW BUILDING

JOB NO.: DRAWN: CHECKED: 2020.11.16 DATE: REVISION:

CLT

SCALE: 1/8" = 1'-0"

SHEET NO.:

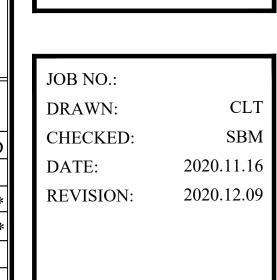
ARCHITECTURAL SITE PLAN





XPANSION HIGH SCHOOL

NEW BUILDING EXPANSION
FOR
ORANGE BEACH HIGH SC

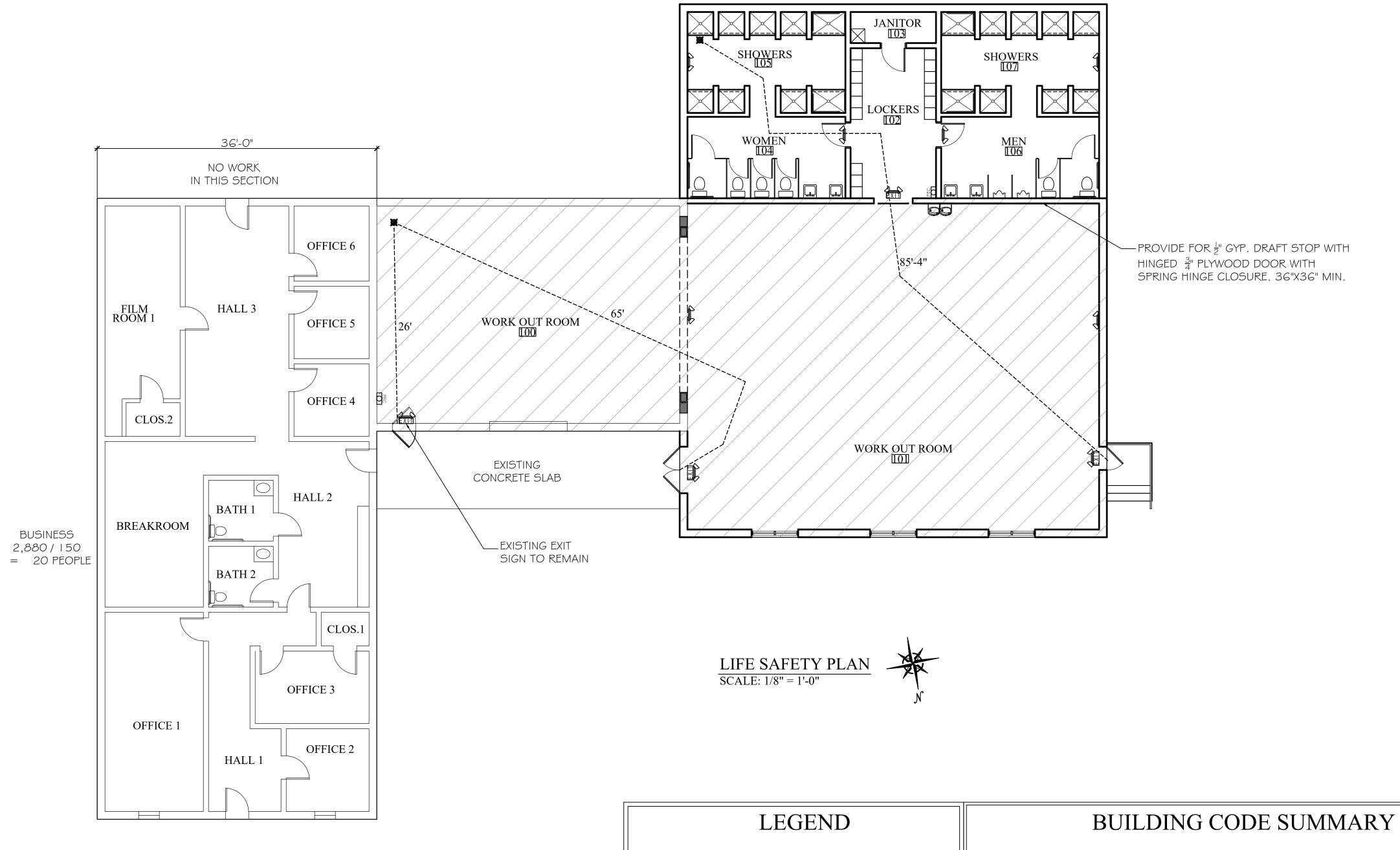


SCALE: 1/8" = 1'-0"

LIFE SAFETY PLAN

LS1.1

SHEET NO.:



DISTANCE IN FEET EXIT TRAVEL DISTANCE

EXIT SIGN WITH EMERGENCY LIGHTING

HATCH INDICATES DIRECTION EXIT SIGN

EXIT SIGN

EMERGENCY LIGHTS

FEC

FIRE EXTINGUISHER COMPLY WITH IBC 906

DRAFT STOP

-2015 INTERNATIONAL BUILDING CODE
-2015 INTERNATIONAL PLUMBING CODE
-2015 INTERNATIONAL MECHANICAL CODE

DE -2015 INTERNATIONAL FIRE CODE

DDE -2015 INTERNATIONAL EXISTING BUILDING CODE

CODE -2014 NATIONAL ELECTRIC CODE

-2015 INTERNATIONAL FUEL & GAS CODE

PROJECT	DATA

-CONSTRUCTION TYPE:	VB, UNSPRINKLERED
-OCCUPANCY	A3
-STORIES/SQUARE FOOTAGE ALLOWED	1/6,000 S.F. *
-STORIES/SQUARE FOOTAGE ACTUAL	1/7,827 S.F. *
-OCCUPANT LOAD	
-EXERCISE ROOMS / 50 S.F. = 3,572/50 = 72 PEOPLE	92
-BUSINESS/ 150 S.F. = $2,880/150 = 20$ PEOPLE	92
-FIRE RATED WALLS	0
-REQUIRED/PROVIDED NUMBER OF EXITS	2/2
-EXIT TRAVEL DISTANCE	<200'
-PROVIDED FIRE EXTINGUISHER	1
-PROVIDED TOILETS/LAVATORIES/WATER COOLER	6/4/2
NOTE	
* AREA INCREASE OF .4 FOR TOTAL ALLOWED AREA OF 8,400 S.F.	

HINGE APPROACH, PULL SIDE

LATCH APPROACH, PULL SIDE

60 min

36 min L

(60" Ø TURNING CIRCLE IN PLAN.)

20-25" max

10 max

FIGURE 308.3.1

UNOBSTRUCTED SIDE REACH

FIGURE 308.2.2

OBSTRUCTED HIGH FORWARD REACH

60 min

LANDING

CHANGE IN DIRECTION

HANDRAIL/GUARDRAIL

FRONT APPROACH, PUSH SIDE FRONT APPROACH, PUSH SIDE, DOOR

HINGE APPROACH, PULL SIDE HINGE APPROACH, PUSH SIDE HINGE APPROACH, PUSH SIDE, DOOR

LATCH APPROACH, PULL SIDE,

DOOR PROVIDED WITH CLOSER

TYPICAL BAR TOP BEYOND— 2'-0"

PROVIDE SUPPORT FOR-TOP AS REQUIRED

FOOTREST NOT TO EXTEND --INTO ADA SPACE

4 max

PROTRUDING OBJECTS

60 min

LANDING

- AT LEAST AS WIDE AS RAMP RUN

SEC. 505 : 2010 ADA STANDARDS

HANDRAIL EXTENSION RAMP

(BOTH ENDS)

FIGURE 405.9.2

SEC. 405.7 : 2010 ADA STANDARDS

RAMP RUN

(A)

STRAIGHT

LANDING STAIR SECTION

I. RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12.

2. I:20 SLOPE AND LESS IS NOT CONSIDERED A "RAMP"

3/A1.0

4/A1.0

SEC. 308: 2010 ADA STANDARDS

ADA BAR SEATING

PROVIDED WITH BOTH CLOSER AND LATCH

PROVIDED WITH BOTH CLOSER AND LATCH

DOOR PROVIDED WITH CLOSER

> 10-24 max

RAMP RUN

FIGURE 308.3.2

OBSTRUCTED HIGH SIDE REACH

ADA COMPLIANT RAMPS

60 min

LANDING

RAILINGS

ALL RAILING SHALL COMPLY WITH THE FOLLOWING DIAGRAMS:

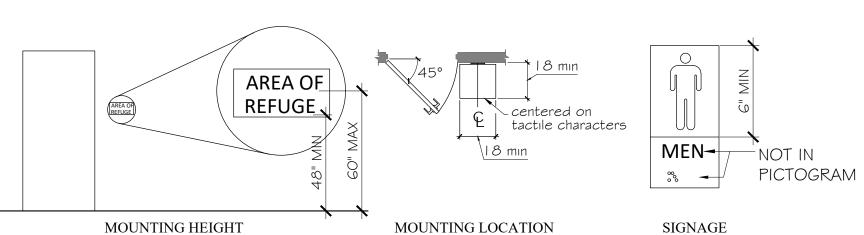
-HANDRAIL @34-38" FROM STAIR TREAD NOSING

REACH /PROTRUDING OBJECTS

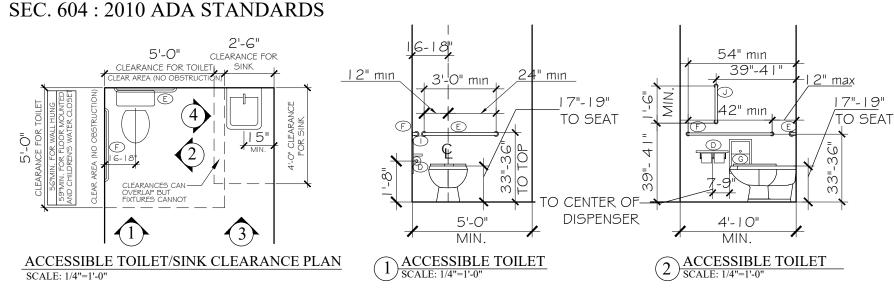
THE FOLLOWING DIAGRAMS SHALL BE TYPICAL FOR ALL ADA COMPLIANT CONDITIONS FOR MOUNTED OBJECTS: (INCLUDING BUT NOT LIMITED TO HAND DRYERS; SOAP DISPENSERS; AND PAPER TOWEL DISPENSERS

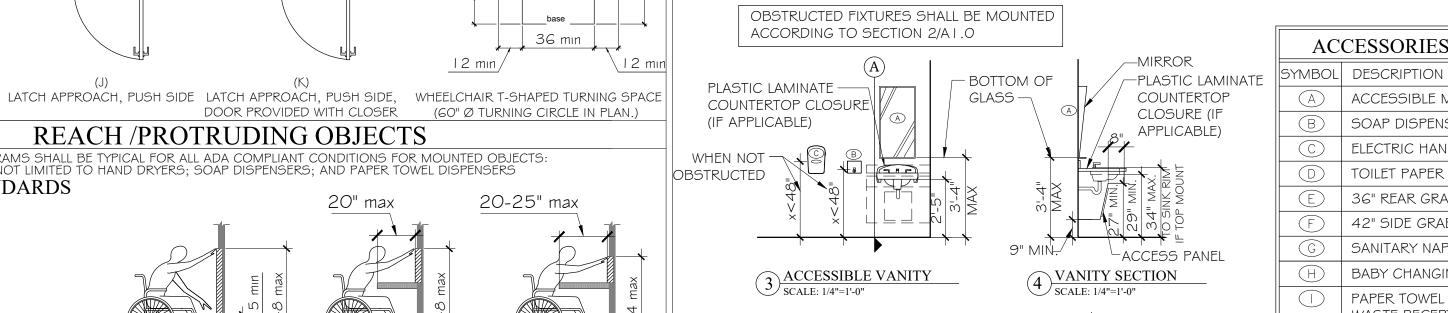
FIGURE 308.2.

UNOBSTRUCTED FORWARD REACH



6/A1.0 ADA ACCESSIBLE BATHROOM FIXTURES/ACCESSORIES





STIVIDOL	DESCRIPTION					
A	ACCESSIBLE MIRROR UNIT					
B	SOAP DISPENSER					
0	ELECTRIC HAND DRYER					
	TOILET PAPER DISPENSER					
E	36" REAR GRAB BAR					
F	42" SIDE GRAB BAR					
G	SANITARY NAPKIN DISPOSAL					
H	BABY CHANGING STATION					
	PAPER TOWEL DISPENSER / WASTE RECEPTACLE COMBO					
	VERTICAL GRAB BAR					
K	DRINKING FOUNTAIN					
	ONS SHOWN MAY VARY NG ON OBSTRUCTIONS.					

ACCESSORIES LEGEND

-WALL OR PARTITION 2'-6" CLEAR (MII ACCESSIBLE URINALCLEARANCE PLAN 5 ACCESSIBLE URINAL SCALE: 1/4"=1'-0"

ADA TOILET COMPARTMENTS MINIMUM REQUIRED COMPARTMENT AREA TOILET COMPARTMENT DOORS SHALL HAVE

DOORS SHALL NOT SWING INTO THE ADA DOOR PULLS ON EACH SIDE DOORS SHALL BE SELF CLOSING

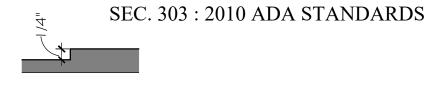
REFERENCE 2/A I .O

<u>6" MAX</u> <u>8" MIN</u> ***** BABY CHANGING STATION ELECTRIC WATER COOLER SCALE: 1/4"=1'-0" SCALE: 1/4"=1'-0" - SEE ALSO DETAIL 2 MIN. CLEARANCE -FROM SECTION OF 1.5" BELOW G/A I .O ABOVE FOR START -GRAB BAR DISTANCE FROM BUTTON TOILET 48" MAX REACH RANGE PUSH-BUTTON TO DISPENSER -FINISHED FLOOR PAPER TOWEL SHELF HAND DRYER TOILET PAPER/ SOAP DISPENSERS (TO PUSH BUTTON) DISPENSER & (TO START BUTTON) SANITARY NAPKIN DISPOSAL DISPENSER

OBSTRUCTED FIXTURES SHALL BE MOUNTED SHELVES TO BE 40" min. - 48" max A.F.F. ACCORDING TO SECTION 2/A I .O

7/A1.0THRESHOLD CONDITIONS





*ALLOWED IF TRANSITION IS BEVELED *BEVEL NOT REQUIRED IF 1/4" OR LESS 1/2" MAX. LEVEL CHANGE 1/4" CHANGE IN LEVEL

A CHANGE IN LEVEL OF 1/2 INCH IS PERMITTED TO BE 1/4" VERTICAL, PLUS 1/4" BEVELED. HOWEVER, IN NO CASE MAY THE COMBINED CHANGE IN LEVEL EXCEED 1/2".

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R	EVIATION LEGEND	PLAN MARKER/TAC	G LEGEND
V.	TERM	[130]	ROOM NUMBER
	ACCESSIBLE ACOUSTICAL CEILING TILE	[24]	DOOR NUMBER
	AMERICANS WITH DISABILITIES ACT ABOVE FINISHED FLOOR ALUMINUM	DETAIL NUMBER	
1.	ASSEMBLY BEAD BOARD	AG. I SHEET NUMBER	INTERIOR ELEVATION
	CONCRETE CONTINUOUS CARPET	SECTION IDENTIFICATION	
	DIMINSION(S) DISHWASHER ELECTRIC / ELECTRICAL ELEVATOR	BB SECTION LOCATION	SECTION CUT LOCATION MARKER
	EQUIPMENT EPOXY PAINT EXTERIOR	SHEET NUMBER	
	FINISH / FINISHED	DRAWING DESIGNATION DETAIL LOCATION	DETAIL MARKER
).	FLOOR FIBER-REINFORCED PLASTIC FOOT / FEET GROUND FAULT INTERRUPTOR GYPSUM BOARD	A2.5 SHEET NUMBER	
	HOLLOW CORE HOLLOW METAL HORIZONTAL HOUR INTERIOR	WALL TYPE NUMBER INTERSECTS WALL REFERENCED	WALL TYPE MARKER
	JANITOR MAXIMUM	✓— STOREFRONT	
	MECHANICAL METAL MICROWAVE MINIMUM	TYPE	STOREFRONT TYPE
.B	MOISTURE RESISTANT NOT TO SCALE ON CENTER PRE FABRICATED	HEIGHT OF CEILING A.F.F.	ELEVATION MARKER
	PAINT / PAINTED PRESSURE TREATED QUARRY TILE REFRIGERATOR	REVISION NUMBER	REVISION MARKER
	REINFORCED REQUIRED SOLID CORE	2	
	SQUARE FOOT / FEET SHOWER SCORED \$ STAINED		
	STAINLESS STEEL STAINED STORAGE		
	TYPICAL UNDER COUNTER		
	VENDING MACHINE VINYL WOOD PLANK WOOD		
	WITH		

GENERAL NOTES

WASHER DRYER

WITH OUT

ALL PRODUCTS, MATERIALS, AND CONSTRUCTION SHALL BE PROVIDED AND/OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS, GUIDELINES, AND/OR INDUSTRY STANDARDS.

H.M.

HORIZ

MECH.

MICRO MIN.

PRE-FA

V.W.P.

WD

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W/D

W/O

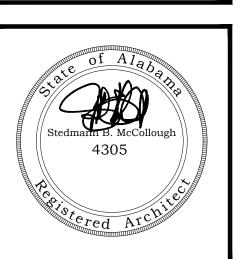
- 2. THE INTENT OF THESE DRAWINGS IS TO PROVIDE THE BUILDER WITH GENERAL GUIDELINES FOR THE SOUND CONSTRUCTION OF THE STRUCTURE INDICATED WITHIN. DEVIATIONS FROM THESE DRAWINGS ARE THE BUILDERS RISK UNLESS APPROVED IN WRITING OR WITH SUPPLEMENTAL DRAWINGS FROM THE ARCHITECT.
- . IT IS RECOMMENDED THAT THE SERVICES OF A REGISTERED LAND SURVEYOR BE EMPLOYED FOR THE PROPER PLACEMENT OF THE STRUCTURE IN RELATION TO PROPERTY LINES, SETBACK LINES, EASEMENTS, ETC.
- 4. CONTRACTOR TO SECURE AND PAY FOR ALL NECESSARY FEES AND PERMITS FOR CONSTRUCTION, ELECTRICAL, AND PLUMBING INSPECTORS,
- DO NOT SCALE DRAWINGS!!! DIMENSIONS OR LINEAR MEASUREMENTS TAKE PRECEDENCE OVER NOTED DIMENSIONS.
- S. DIMENSIONS INDICATED ON DRAWINGS ARE TO FACE OF STUDS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INDICATED WITHIN THESE DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF ANY MATERIALS, STARTING FABRICATION. OR BEGINNING CONSTRUCTION

8. PROVIDE TEMPORARY SETTLING BASINS, HAY BALES, AND OTHER METHODS AS APPROPRIATE TO FILTER WATER AT ALL AREAS WHERE STORM WATER LEAVES THE PROJECT. CLEAN UP ALL SOIL WHICH FLOWS OFF SITE AT THE END OF THE DAY.

9. ALL EXISTING SITE CONDITIONS ARE TO BE VERIFIED BY CONTRACTOR

- BEFORE START OF CONSTRUCTION. IO. PROVIDE CHEMICAL BARRIER TO BUILDING FROM SUBTERRANEAN
- TERMITE ATTACK. I I . NO QUALIFYING STATEMENTS OR EXCEPTIONS TO PLANS OR NOTES
- TO BE ALLOWED. 12. ALL WORK RELATED DEBRIS SHALL BE REMOVED FROM THE SITE
- REGULARLY AND PROPERLY. 13. THE CONTRACTOR SHALL LEAVE ALL AREAS AND FINISHED SPACES IN
- A CLEAN AND ACCEPTABLE CONDITION AT THE PROJECT COMPLETION.
- 14. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY W/ OSHA REQUIREMENTS.
- 15. ALL NEW CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND RESTRICTIVE ORDINANCES FOR CONSTRUCTION, ELECTRICAL, PLUMBING, AND MECHANICAL.





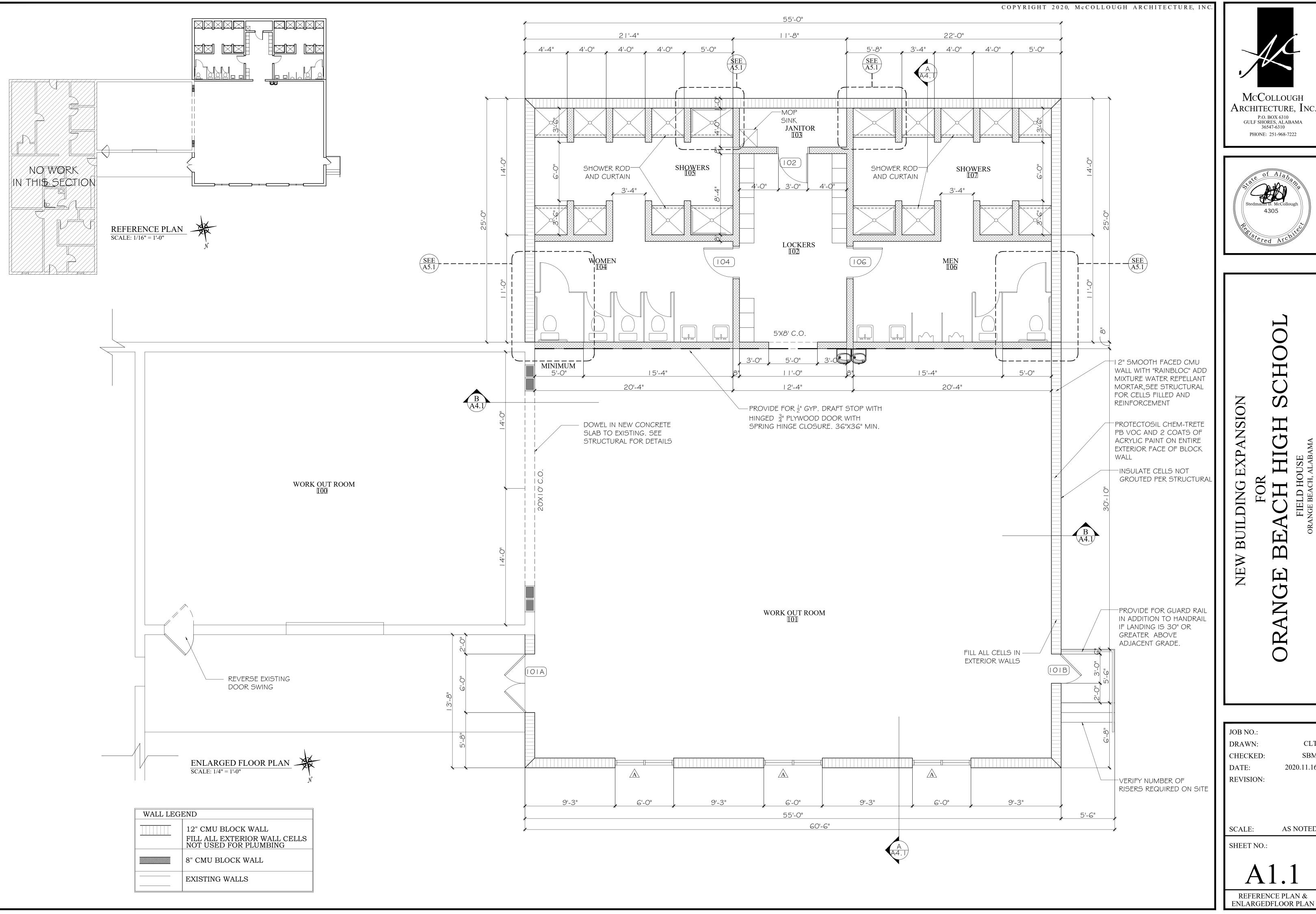
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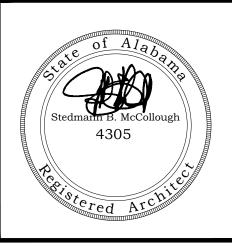
AS NOTED SCALE:

SHEET NO.:

ADA STANDARDS AND DETAILS







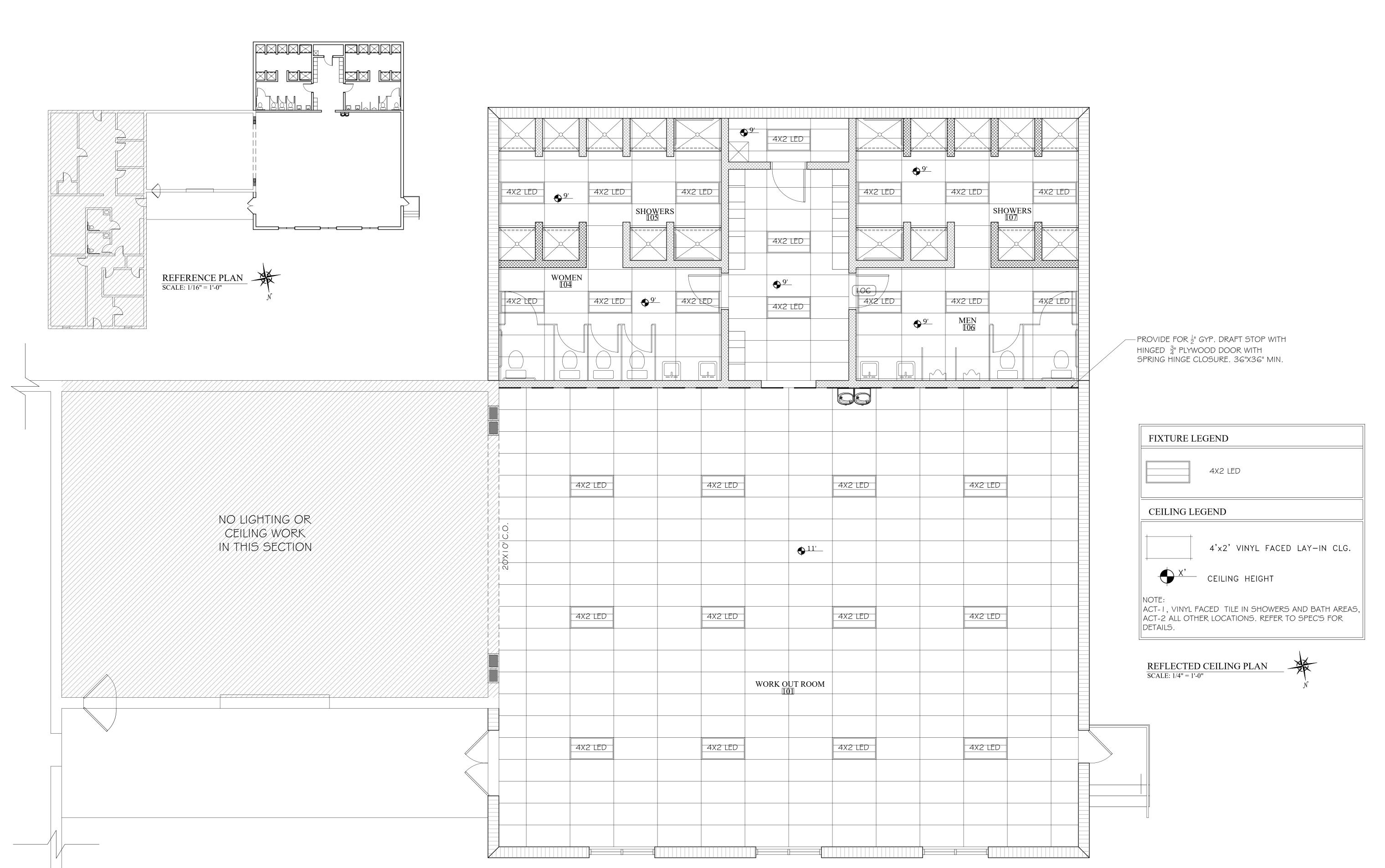
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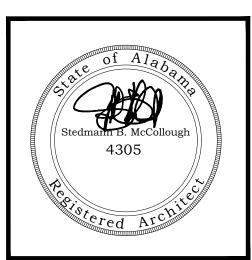
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SHEET NO.:

REFERENCE PLAN &







S **EXPANSION** HIG] NEW BUILDING EXPA FOR FOR FIELD HOUSE ORANGE BEACH, ALABAN

JOB NO.: DRAWN: CHECKED: 2020.11.16

CLT

AS NOTED

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NEW BUILDING I FOR

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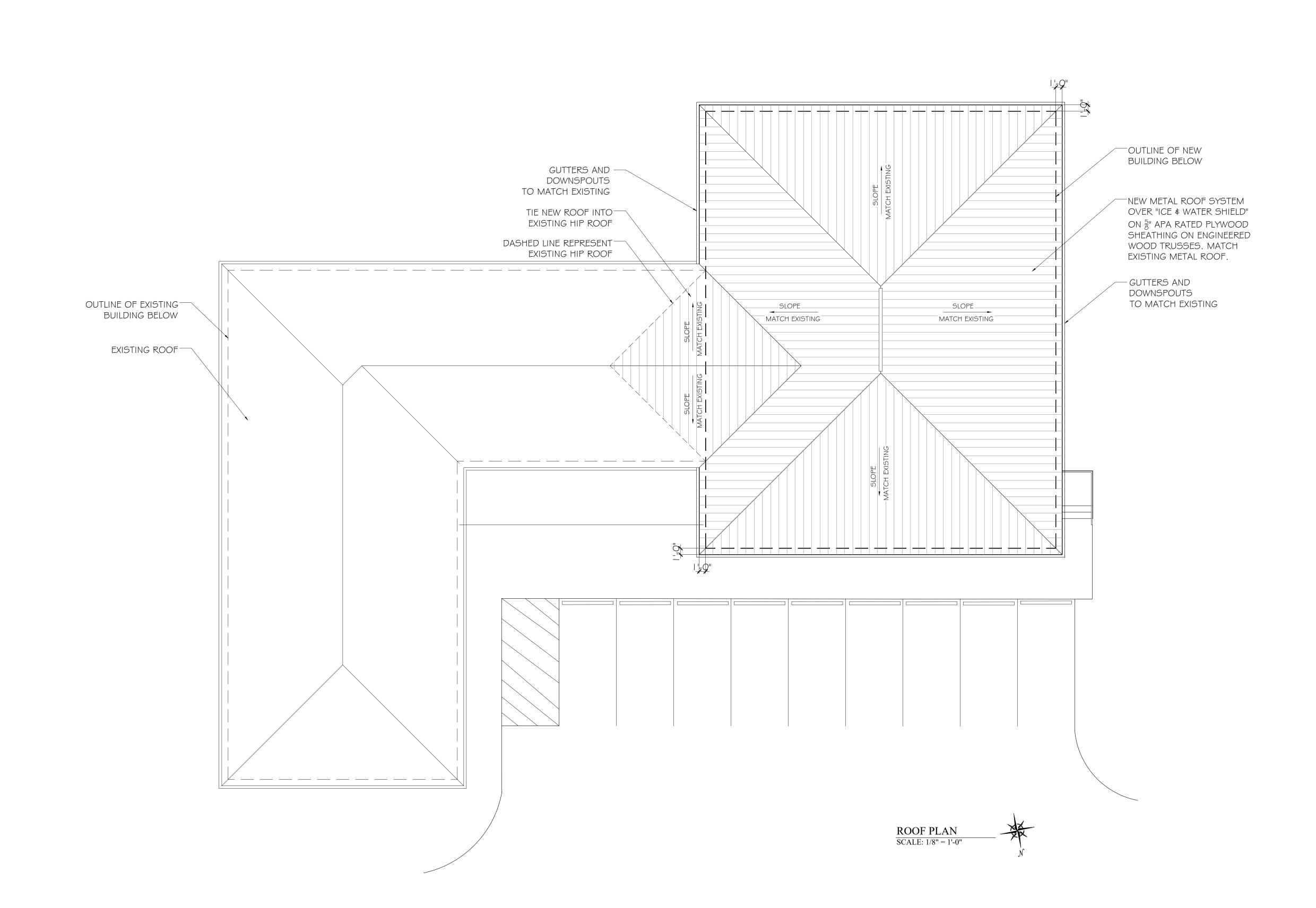
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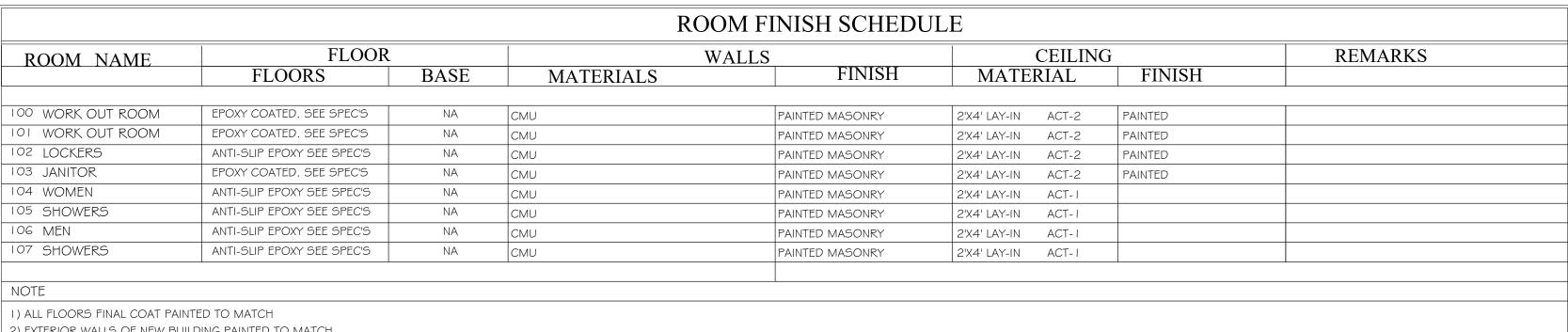
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1/8"=1'-0"

SHEET NO.:

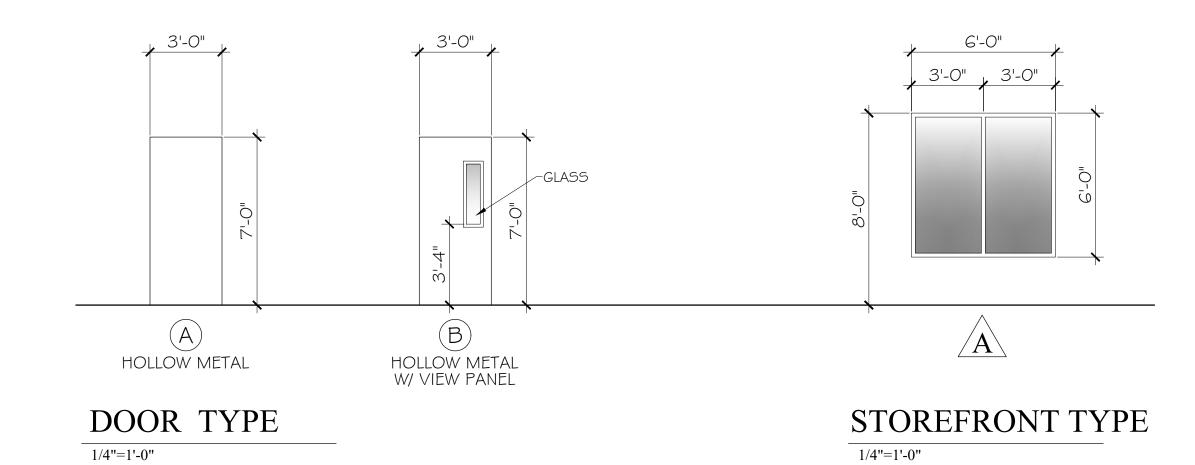
ROOF PLAN

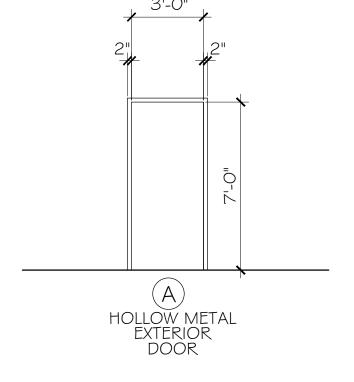




	DOOR SCHEDULE										
DOOR NO.	DOOR SIZE	DOOR	DOOR	DOOR	DOOR FINISH	FRAME TYPE	FRAME FINISH	RATING	PANIC HDWE	DOOR CLOSURE	REMARKS
IOIA	PR 3'-0" X7'-0"	В	METAL	METAL	PAINT	НМ	PAINT	_	YES	YES	VIEW PANEL
IOIB	3'-0" X 7'-0"	Α	METAL	METAL	PAINT	НМ	PAINT	-	YES	YES	
102	3'-0" X 7'-0"	Α	METAL	METAL	PAINT	НМ	PAINT	-	_	_	
104	3'-0" X 7'-0"	Α	METAL	METAL	PAINT	l I HM	PAINT	_	-	-	
105	3'-0" X 7'-0"	А	METAL	METAL	PAINT	НМ	PAINT	-	_	-	

NOTE ALL EXTERIOR DOORS AND WINDOWS TO BE RATED FOR LARGE MISSILE IMPACT.





DOOR FRAME / TYPES SCALE: 1/4"=1'-0"

١,		
	JOB NO.:	
	DRAWN:	CL
	CHECKED:	SBN
	DATE:	2020.11.1
	REVISION:	

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Architecture, Inc.

P.O. BOX 6310 GULF SHORES, ALABAMA 36547-6310

PHONE: 251-968-7222

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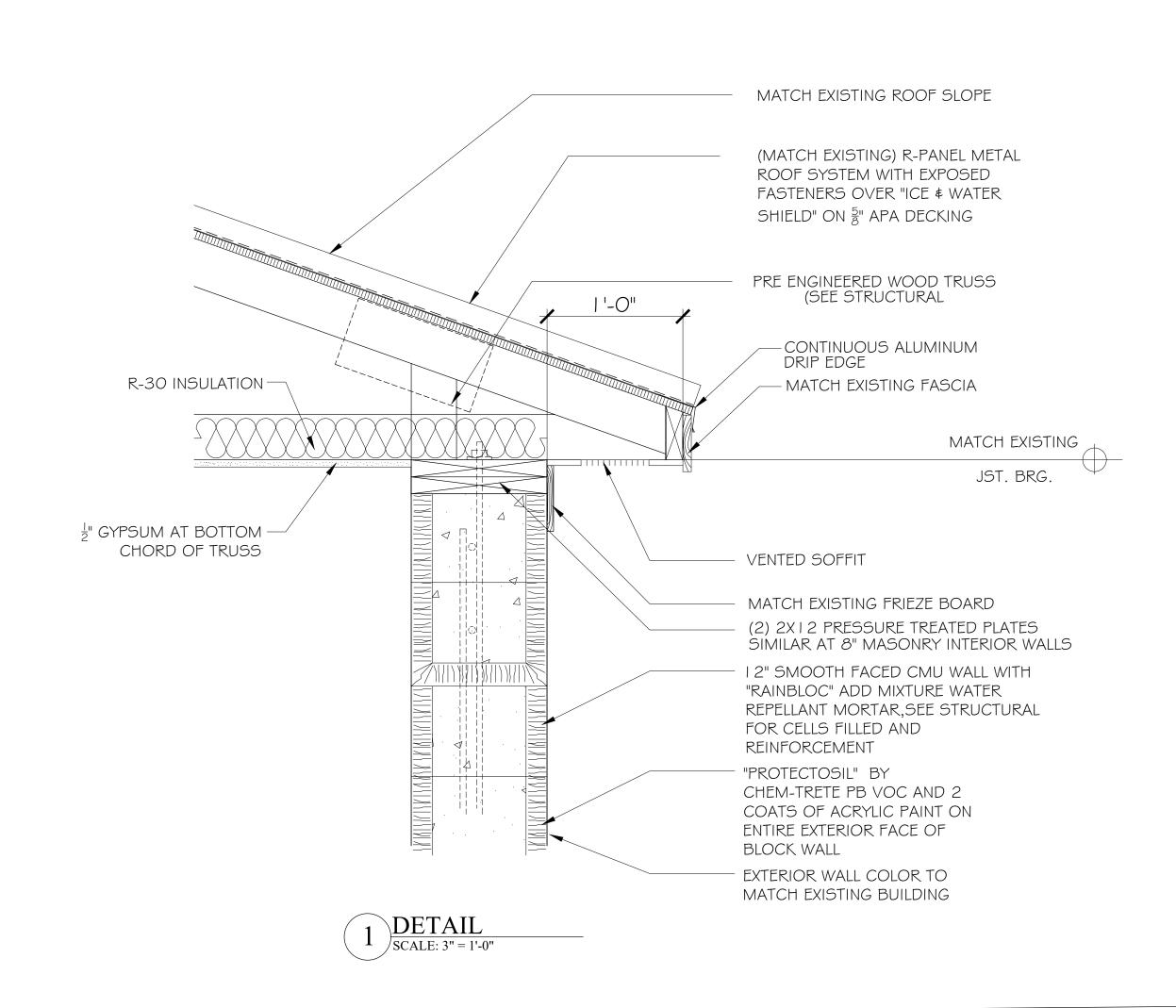
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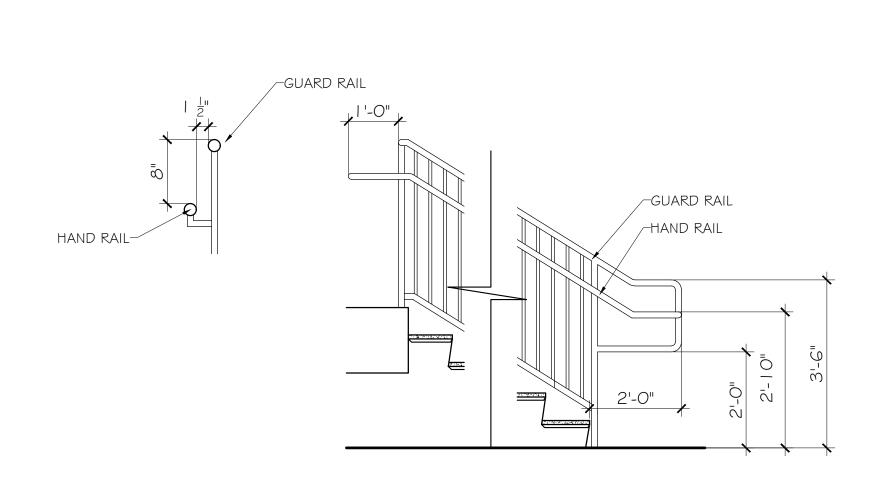
NEW

SCALE: AS NOTED

SHEET NO.:

SCHEDULES AND DETAILS



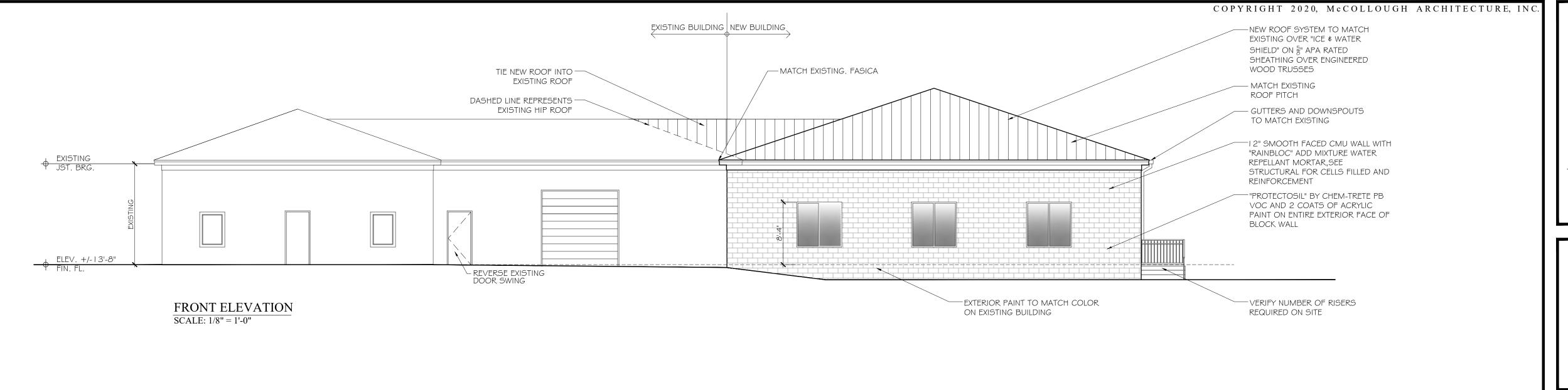


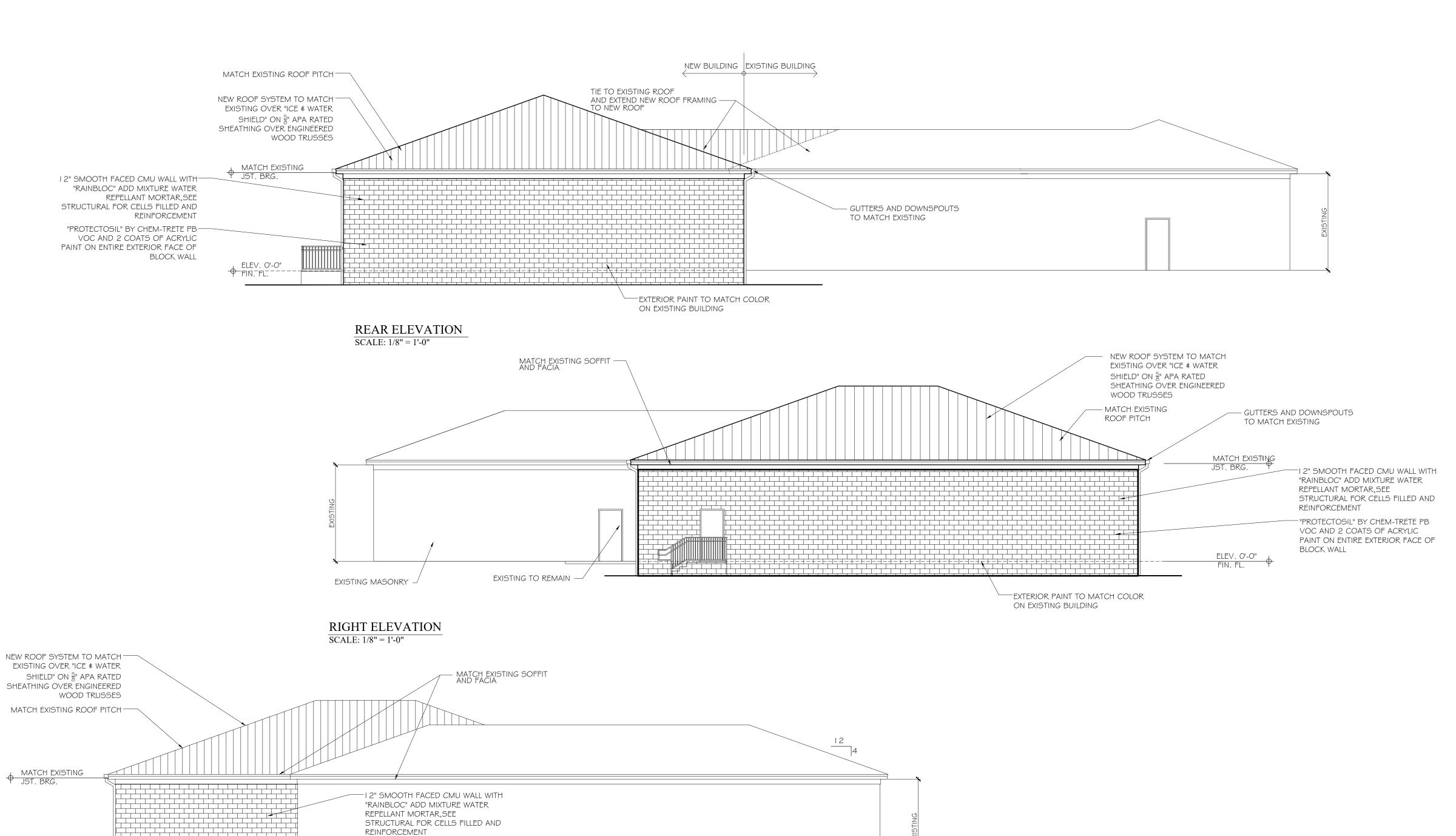


NOTE

PROVIDE GUARD RAIL IN ADDITION TO HANDRAIL IF LANDING IS GREATER THAN 30" ABOVE ADJACENT GRADE.

2) EXTERIOR WALLS OF NEW BUILDING PAINTED TO MATCH

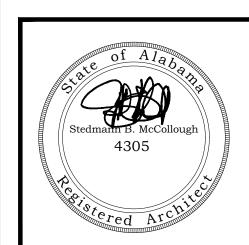




LEFT ELEVATION SCALE: 1/8" = 1'-0"

"PROTECTOSIL" BY CHEM-TRETE PB VOC AND 2 COATS OF ACRYLIC PAINT ON ENTIRE EXTERIOR FACE OF





EXPANSION HI FOR FIELD HC ORANGE BEACH, NEW

JOB NO.: DRAWN: CHECKED: DATE: 2020.11.16

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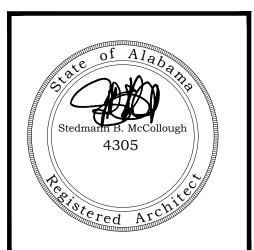
REVISION:

SCALE: 1/8"=1'-0"

SHEET NO.:

EXTERIOR ELEVATIONS





EXPANSION HIGH SCHOOL

BUILDING EXPAN
FOR
FOR
FIELD HOUSE
ORANGE BEACH, ALABAMA

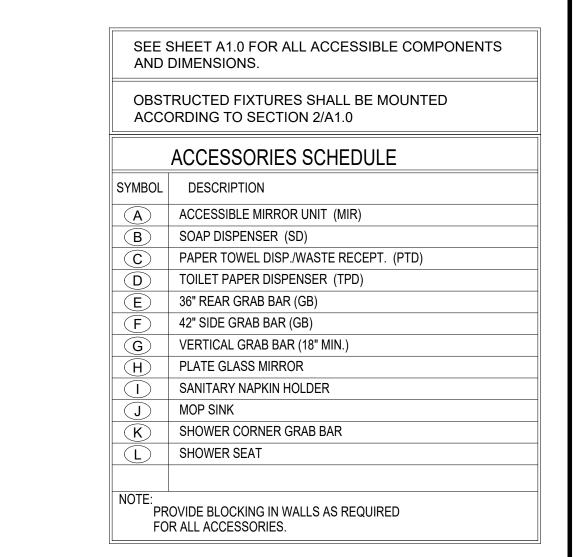
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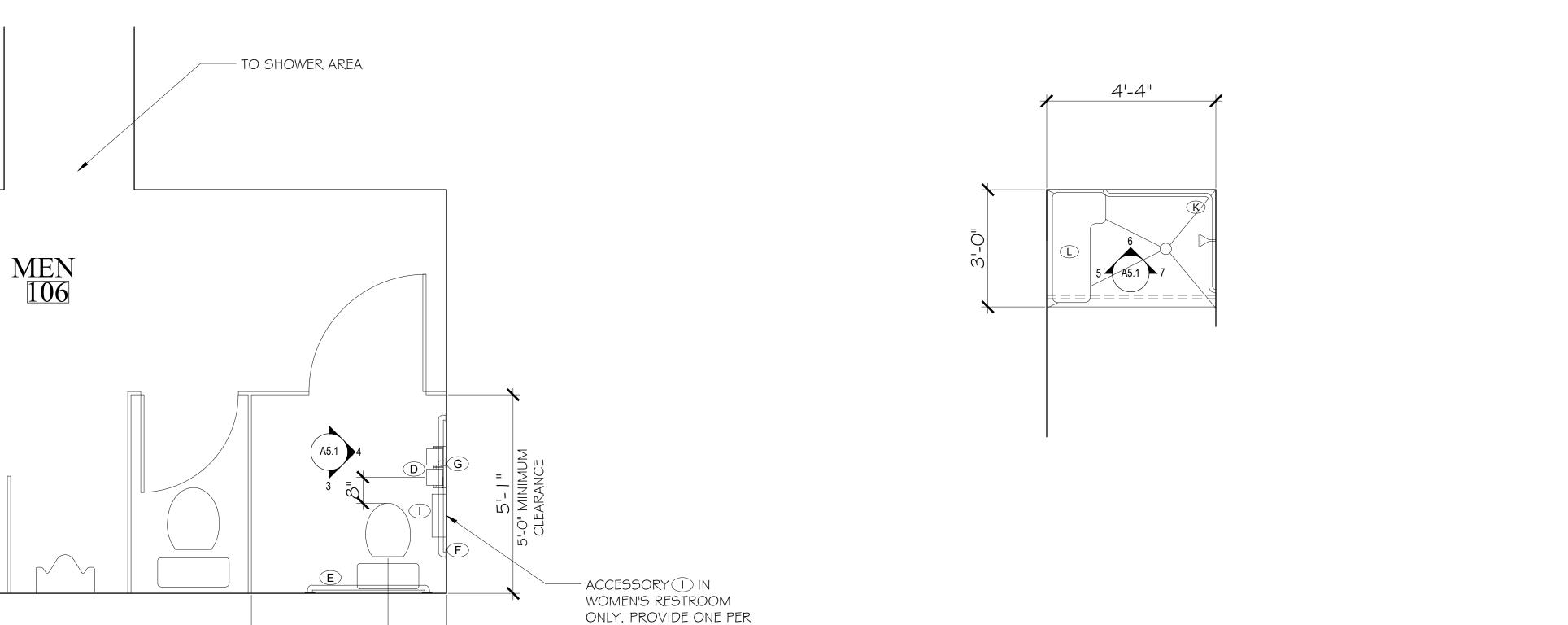
SCALE: 1/4"=1'-0"

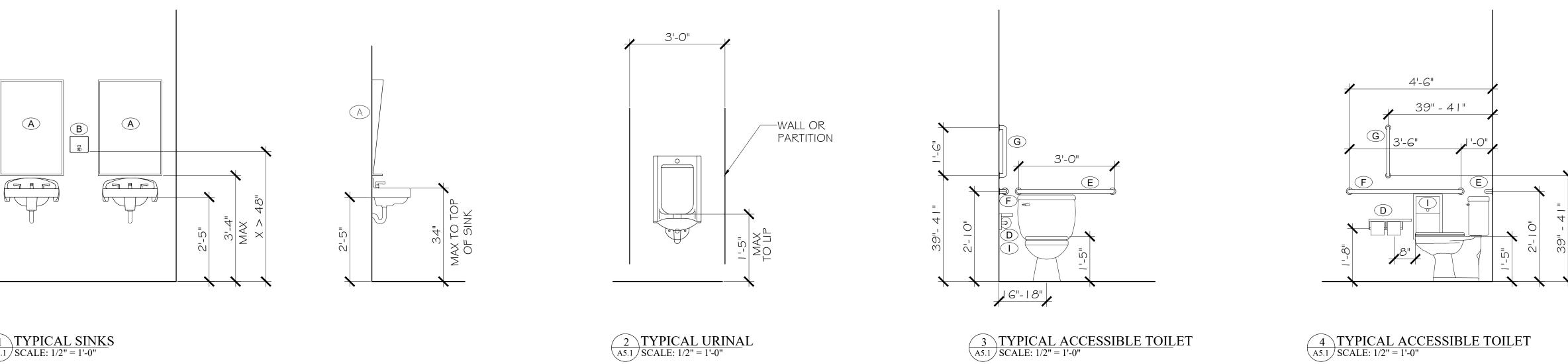
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A4.1

BUILDING SECTIONS





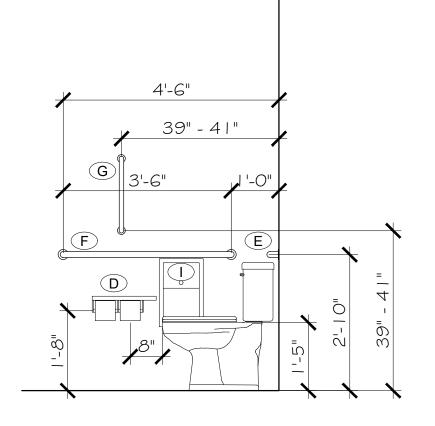


STALL.

1'-6"

5'-0"

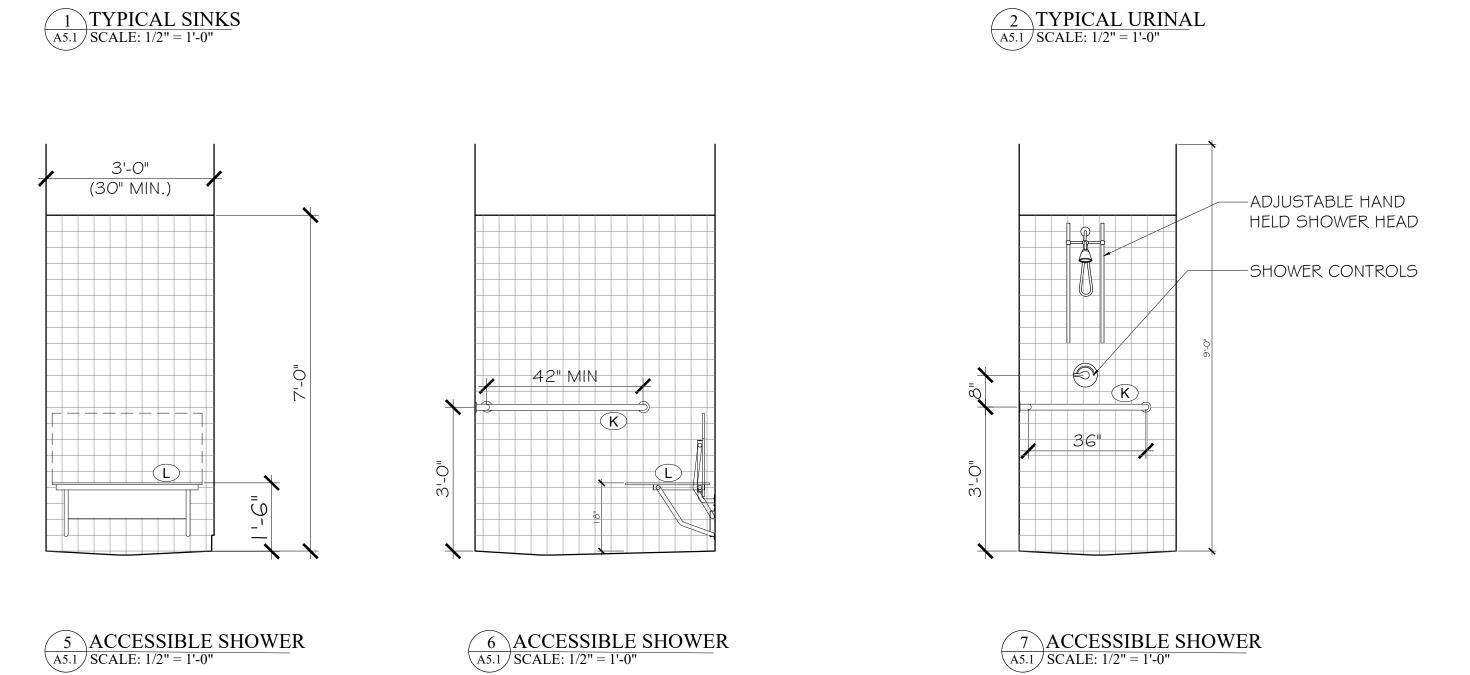
5'-0" MINIMUM CLEARANCE



ENLARGED SHOWER PLAN

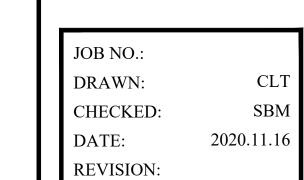
SCALE: 1/2" = 1'-0"

3 TYPICAL ACCESSIBLE TOILET SCALE: 1/2" = 1'-0"



ENLARGED BATH PLAN

SCALE: 1/2" = 1'-0"



EXPANSION

BUILDING FOR

NEW

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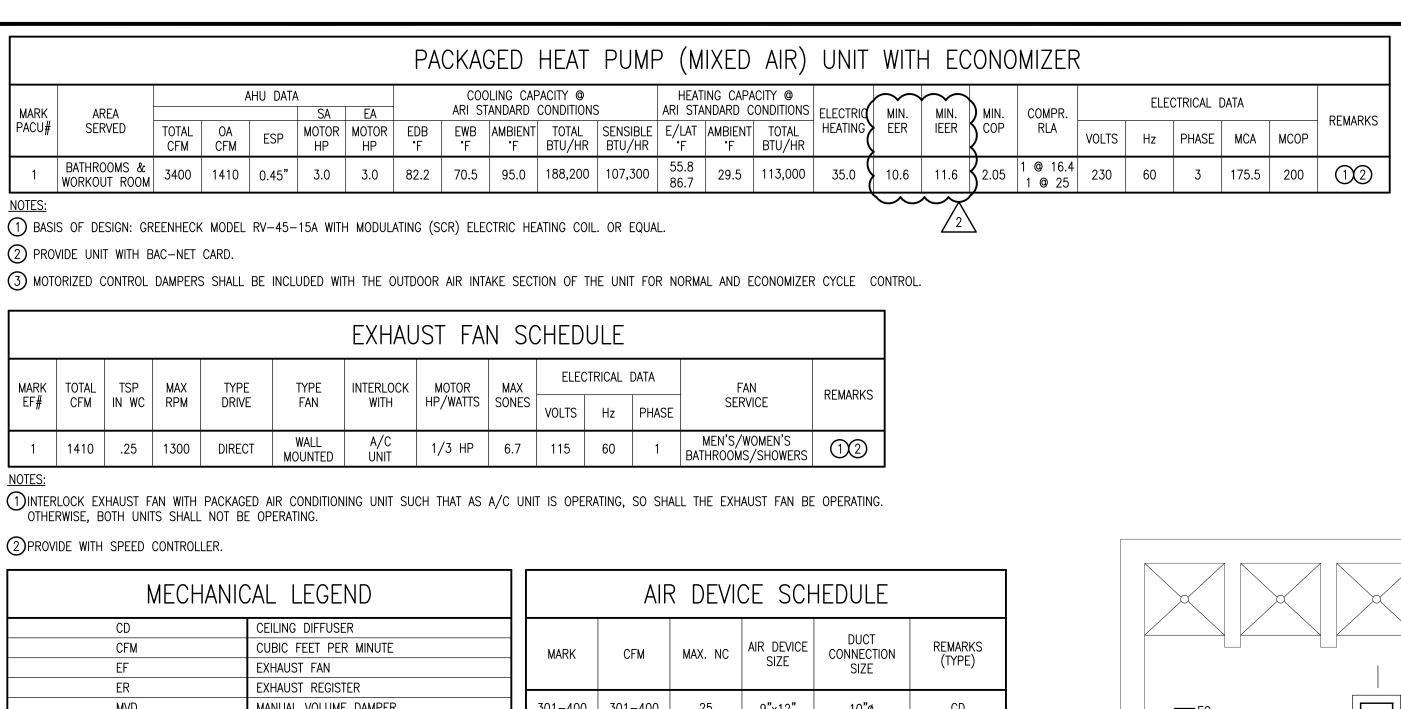
P.O. BOX 6310 GULF SHORES, ALABAMA 36547-6310

PHONE: 251-968-7222

1/2"=1'-0" SCALE:

SHEET NO.:

ENLARGED BATHROOM AND DETAILS

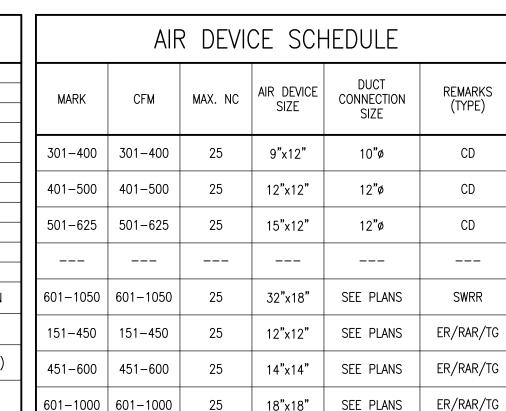


PROVIDE WITH SPEED CONTROLLER.										
MECHANIC		AIR DEVICE SCHEDULE								
CD CFM EF ER	CFM CUBIC FEET PER MINUTE EF EXHAUST FAN				AIR DEVICE SIZE	DUCT CONNECTION SIZE	REMARKS (TYPE)			
MVD OA	MANUAL VOLUME DAMPER OUTDOOR AIR	301-400	301-400	25	9"x12"	10 " ø	CD			
PACU	PACKAGED AIR HANDLING UNIT	401-500	401-500	25	12"x12"	12 " ø	CD			
RA RAR	RETURN AIR RETURN AIR REGISTER	501-625	501-625	25	15"x12"	12 " ø	CD			
SA TYP	SUPPLY AIR TYPICAL									
<u> </u>	CEILING DIFFUSER WITH THROW INDICATION		601-1050	25	32"x18"	SEE PLANS	SWRR			
	EXHAUST/RETURN AIR DEVICE	151-450	151-450	25	12"x12"	SEE PLANS	ER/RAR/TG			
Y W X H	DUCTWORK (DIMENSIONS: WIDTH X HEIGHT)	451-600	451-600	25	14"x14"	SEE PLANS	ER/RAR/TG			
cccccc.	ELBOW WITH TURNING VANES	601-1000 NOTES:	601-1000	25	18"x18"	SEE PLANS	ER/RAR/TG			
	BULLHEAD TEE WITH TURNING VANES AND SPLITTER DAMPER	1. PROVIDE 2. PROVIDE	DUCT CONNEC	CTION SIZE S	SHOWN UNLES	N LAY—IN CEILING S OTHERWISE NO EDENCE OVER TH	TED ON PLANS.			
	45° SHOE-FITTING TAKE-OFF									
. 1 .										

	RETURN AIR
RAR	RETURN AIR REGISTER
SA	SUPPLY AIR
TYP	TYPICAL
$ \square$ $-$	CEILING DIFFUSER WITH THROW INDICATION
	EXHAUST/RETURN AIR DEVICE
₹ W X H →	DUCTWORK (DIMENSIONS: WIDTH X HEIGHT)
CCCCCCC CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ELBOW WITH TURNING VANES
	BULLHEAD TEE WITH TURNING VANES AND SPLITTER DAMPER
	45° SHOE-FITTING TAKE-OFF
	DUCT CONNECTION OVER AIR DEVICE
	RETURN AIR DUCT IN SECTION
	SUPPLY AIR DUCT IN SECTION
<u> </u>	DUCT MOUNTED SMOKE DETECTOR
$\bigcirc_{\#}$	THERMOSTAT WITH EQUIPMENT # SERVED MOUNT 48" A.F.F.
\sim	5/8" DOOR UNDERCUT
	MANUAL VOLUME DAMPER

OA VENTILATION RA	. — -
AIR HANDLING UNIT TAG NUMBER	PACU#1
OCCUPANCY CATEGORY	WEIGHT RM LOCKER SHOWER/RR JANITOR
PEOPLE OUTDOOR AIR RATE (CFM/PERSON) (Rp)	20
AREA OUTDOOR RATE (CFM/SQFT (Ra)	0.06
ZONE FLOOR AREA (SQFT) (Az)	2225 215 960 45
NORMAL OCCUPANCY (NUMBER OF PEOPLE)	22
CALCULATED OCCUPANCY (NUMBER OF PEOPLE) (Pz)	22
PEOPLE OUTDOOR AIR (CFM) (Rp x Pz)	440
AREA OUTDOOR AIR (CFM) (Ra x Az)	135
BREATHING ZONE OUTDOOR AIRFLOW (Vbz)	575
ZONE AIR DISTRIB. EFFECTIVENESS (Vbz)	0.8
ZONE OUTDOOR AIRFLOW (CFM) (Voz)	720
REQUIRED OUTDOOR AIR INTAKE FLOW SINGLE ZONE (CFM) (Vot = Voz)	720
EXHAUST REQUIRED (CFM)	1020
LOCKER-0.50CFM/SF SHOWER/RR-20/SHOWER HEAD,70/TOILIET JANITOR-1 CFM/SF	110 920 45
VENTILATON PROVIDED (CFM) MIN./MAX.	1300

(1) OUTSIDE AIR QUANTITY IS DIRECTLY SUPPLIED TO THE UNIT AND IS CALCULATED USING THE VENTILATION RATE PROCEDURE.



SEQUENCE OF OPERATION

PACKAGED HEAT PUMP W/ ELECTRIC HEAT (10 TONS & UP):

GENERAL: SPACE TEMPERATURE SHALL BE CONTROLLED BY WALL MOUNTED DDC TEMPERATURE SENSORS (PROVIDED BY THE CONTROLS CONTRACTOR). DDC TEMPERATURE SENSORS SHALL HAVE NIGHT LOW AND HIGH LIMIT SETTINGS, AND HAVE OCCUPIED/UNOCUPIED SCHEDULE CAPABILITY. UNITS SHALL RUN SUBJECT TO FACTORY SAFETIES AND DUCT MOUNTED SMOKE DETECTORS AS INDICATED.

THE DDC SENSORS SHALL HAVE AN AFTER-HOURS OVERRIDE BUTTON (1-HOUR).

SUPPLY FAN SHALL BE SINGLE ZONE VARIABLE AIR VOLUME (SZVAV) TYPE AND SHALL MODULATE FAN SPEED AS REQUIRED DURING "OCCUPIED" & "UNOCCUPIED" MODES TO MAINTAIN SPACE TEMPERATURE SETPOINT.

EACH SPACE DDC TEMPERATURE SENSOR SHALL HAVE A CLEAR, PLASTIC, LOCKABLE ENCLOSURE.

COOLING/HEATING MODE: THE COMPRESSOR SECTION SHALL START AND STOP ACCORDING TO THE THERMOSTAT SETPOINTS. COOLING AND HEATING SHALL CHANGE OVER AUTOMATICALLY. IN THE 'COOLING' MODE, WHEN THE SPACE TEMPERATURE RISES ABOVE SETPOINT (74 °F, FIELD ADJ.), THE COMPRESSORS SHALL BE ENERGIZED AND SHALL RUN UNTIL SPACE COOLING TEMPERATURE REQUIREMENT IS SATISFIED. IN THE 'HEATING' MODE, WHEN THE SPACE TEMPERATURE FALLS BELOW SETPOINT (68 *F, FIELD ADJ.), THE CYCLE SHALL REVERSE AND SHALL RUN UNTIL THE SPACE HEATING TEMPERATURE REQUIREMENT IS SATISFIED. HEAT PUMP OPERATION SHALL SERVE AS STAGE 1 HEATING. (CONTROLS SHALL BE PROVIDED THAT PREVENT SUPPLEMENTAL HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE). SUPPLEMENTAL ELECTRIC HEATERS SHALL SERVE AS STAGE 2 HEATING, AS WELL AS, FOR DEFROST CYCLE AND EMERGENCY HEAT. DURING STAGE 2 HEATING, THE COMPRESSORS AND ELECTRIC HEATER SHALL BOTH OPERATE SIMULTANEOUSLY.

AIR ECONOMIZER MODE: THE AIR ECONOMIZER CYCLE SHALL BE INITIATED WHENEVER THE OUTDOOR AIR ENTHALPY IS LESS THAN 28 BTU/LB OF DRY AIR AND THE OUTDOOR AIR TEMPERATURE IS LESS THAN 75 °F. DURING THE ECONOMIZER CYCLE, THE RETURN/EXHAUST AIR DUCT MOTORIZED DAMPER SHALL OPEN FULLY, AND THE ECONOMIZER OUTDOOR AIR MOTORIZED DAMPER SHALL OPEN SUCH THAT ALL AIRFLOW USED FOR SPACE COOLING IS PROVIDED DIRECTLY FROM OUTDOORS. THE SYSTEM SHALL BE CAPABLE OF MODULATING THE OUTDOOR AIR AND RETURN AIR DAMPERS TO PROVIDE UP TO 100% OF THE DESIGN SUPPLY AIR QUANTITY DURING THE ECONOMIZER CYCLE.

THE ECONOMIZER SYSTEM SHALL BE GAPABLE OF PROVIDING COOLING WHEN ADDITIONAL MECHANICAL COOLING IS REQUIRED. INTEGRATE THE SYSTEMS COOLING COIL TO MAINTAIN SPACE SETPOINT TEMPERATURES AS REQUIRED.

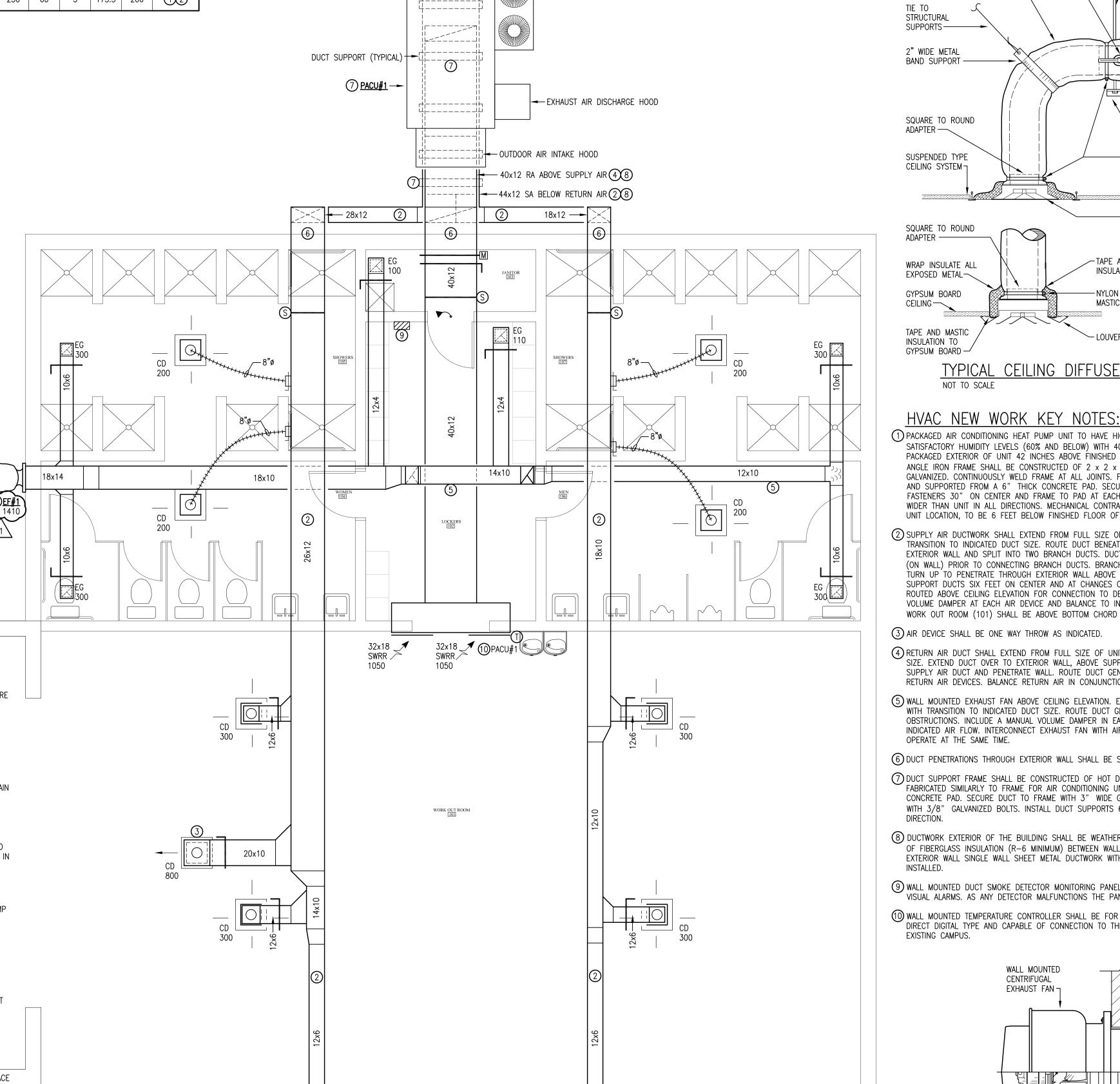
AS IT IS DETERMINED THAT THE OUTDOOR AIR CONDITIONS WILL NO LONGER REDUCE COOLING ENERGY USAGE (EITHER THE OA ENTHALPY EXCEEDS 28 BTU/LB OR THE OA TEMPERATURE EXCEEDS 75 °F) AS SENSED BY OUTDOOR AIR SENSOR, THE AIR ECONOMIZER CYCLE SHALL BE TERMINATED AND ALL MOTORIZED DAMPERS SHALL RETURN TO NORMAL OPERATING POSITIONS/ OUTDOOR AIR DAMPER SHALL BE OPEN TO NORMAL POSITION, RETURN DUCT DAMPER SHALL BE OPEN TO NORMAL POSITION, AND THE ECONOMIZER DAMPER SHALL BE CLOSED. NOTES:

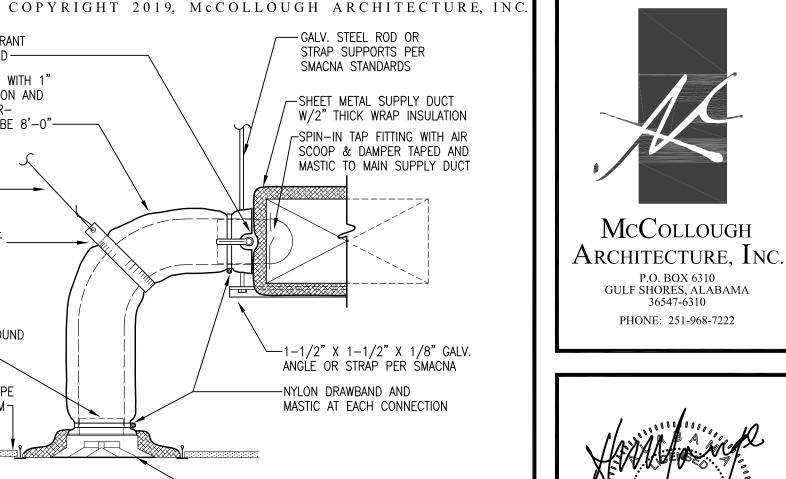
> 1. ALL SENSORS REQUIRED FOR ECONOMIZER CYCLE OPERATION SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR.

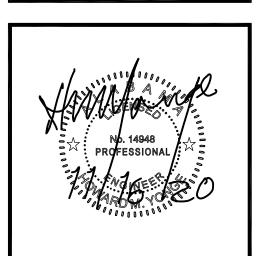
2. SENSOR ACCURACY FOR ECONOMIZER CYCLE OPERATION SHALL BE PER ASHRAE 90.1-2013, 6.5.1.1.6 REQUIREMENTS - DRY BULB TEMPERATURES SHALL BE ACCURATE TO +/- 2 °F OVER THE

- ENTHALPY AND THE VALUE OF A DIFFERENTIAL ENTHALPY SENSOR SHALL BE ACCURATE TO +/- 3 BTU/LB OVER THE RANGE OF 20-36 BTU/LB.

RANGE OF 40°F TO 80°F.







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 $oxed{(1)}$ packaged air conditioning heat pump unit to have high latent capacity for maintaining SATISFACTORY HUMIDITY LEVELS (60% AND BELOW) WITH 40% OUTDOOR VENTILATION AIR. MOUNT PACKAGED EXTERIOR OF UNIT 42 INCHES ABOVE FINISHED FLOOR LEVEL ON AN ANGLE IRON FRAME. ANGLE IRON FRAME SHALL BE CONSTRUCTED OF 2 x 2 x 3/16 ANGLE IRON THAT IS HOT DIPPED GALVANIZED. CONTINUOUSLY WELD FRAME AT ALL JOINTS. FRAME SHALL BE FULL PERIMETER SIZE OF UNIT AND SUPPORTED FROM A 6" THICK CONCRETE PAD. SECURE UNIT TO FRAME WITH MECHANICAL FASTENERS 30" ON CENTER AND FRAME TO PAD AT EACH SUPPORT. CONCRETE PAD SHALL BE 6" WIDER THAN UNIT IN ALL DIRECTIONS. MECHANICAL CONTRACTOR SHALL VALIDATE ELEVATION OF GRADE, AT UNIT LOCATION, TO BE 6 FEET BELOW FINISHED FLOOR OF BUILDING.

TYPICAL CEILING DIFFUSER DETAIL

- GALV. STEEL ROD OR

SMACNA STANDARDS

STRAP SUPPORTS PER

-SHEET METAL SUPPLY DUCT

W/2" THICK WRAP INSULATION

-SPIN-IN TAP FITTING WITH AIR

SCOOP & DAMPER TAPED AND MASTIC TO MAIN SUPPLY DUCT

—1-1/2" X 1-1/2" X 1/8" GALV.

ANGLE OR STRÁP PER ŚMACNA

LOUVERED FACE CEILING DIFFUSER

WITH 2' X 2' LAY-IN ALUM. PANEL

-NYLON DRAWBAND AND MASTIC AT EACH CONNECTION

TAPE AND MASTIC ALL

INSULATION OVERLAPS

- NYLON DRAWBAND AND

MASTIC AT EACH CONNECTION

- LOUVERED FACE CEILING DIFFUSER

(2) SUPPLY AIR DUCTWORK SHALL EXTEND FROM FULL SIZE OF UNIT OPENING ON BOTTOM OF UNIT WITH FRANSITION TO INDICATED DUCT SIZE. ROUTE DUCT BENEATH UNIT SUPPORTED EVERY 6 FEET OVER THE EXTERIOR WALL AND SPLIT INTO TWO BRANCH DUCTS. DUCT SHALL TRANSITION FROM 40x12 TO 12x44 (ON WALL) PRIOR TO CONNECTING BRANCH DUCTS. BRANCH DUCTS ARE TO BE ROUTED ALONG WALL AND TURN UP TO PENETRATE THROUGH EXTERIOR WALL ABOVE CEILING ELEVATION OF BATHROOM AREAS. SUPPORT DUCTS SIX FEET ON CENTER AND AT CHANGES OF DIRECTION. BRANCH DUCTS SHALL BE ROUTED ABOVE CEILING ELEVATION FOR CONNECTION TO DESIGNATED AIR DEVICES. INCLUDE A MANUAL VOLUME DAMPER AT EACH AIR DEVICE AND BALANCE TO INDICATED AIR FLOW. DUCTWORK ROUTED ABOVE WORK OUT ROOM (101) SHALL BE ABOVE BOTTOM CHORD OF ROOF TRUSSES.

(3) AIR DEVICE SHALL BE ONE WAY THROW AS INDICATED.

NOT TO SCALE

LOCKING QUADRANT

FLEXIBLE DUCT WITH 1'

THICK INSULATION AND

MAX. RUN TO BE 8'-0"-

TO BE EXPOSED —

VAPOR BARRIER-

(4) RETURN AIR DUCT SHALL EXTEND FROM FULL SIZE OF UNIT OPENING WITH TRANSITION TO INDICATED DUCT SIZE. EXTEND DUCT OVER TO EXTERIOR WALL, ABOVE SUPPLY AIR DUCT, TURN UP TO SAME ELEVATION AS SUPPLY AIR DUCT AND PENETRATE WALL. ROUTE DUCT GENERALLY AS INDICATED FOR CONNECTION TO RETURN AIR DEVICES. BALANCE RETURN AIR IN CONJUNCTION WITH SCHEDULED OUTDOOR AIR QUANTITY.

(5) WALL MOUNTED EXHAUST FAN ABOVE CEILING ELEVATION. EXTEND DUCT FROM FULL SIZE OF UNIT OPENING WITH TRANSITION TO INDICATED DUCT SIZE. ROUTE DUCT GENERALLY AS INDICATED WITH OFFSETS TO AVOID OBSTRUCTIONS. INCLUDE A MANUAL VOLUME DAMPER IN EACH BRANCH DUCT AND BALANCE AIR DEVICE TO INDICATED AIR FLOW. INTERCONNECT EXHAUST FAN WITH AIR CONDITIONING UNIT SUCH THAT BOTH SHALL OPERATE AT THE SAME TIME.

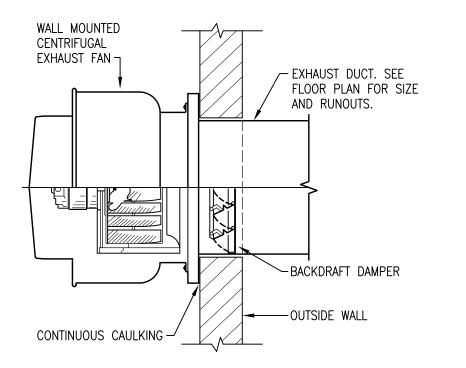
(6) DUCT PENETRATIONS THROUGH EXTERIOR WALL SHALL BE SEALED WEATHERPROOF AND RODENT PROOF.

(7) DUCT SUPPORT FRAME SHALL BE CONSTRUCTED OF HOT DIPPED GALVANIZED ANGLE IRON STEEL AND FABRICATED SIMILARLY TO FRAME FOR AIR CONDITIONING UNIT. SECURE DUCT SUPPORT STRUCTURE TO CONCRETE PAD. SECURE DUCT TO FRAME WITH 3" WIDE GALVANIZED METAL STRAP SECURED TO FRAME WITH 3/8" GALVANIZED BOLTS. INSTALL DUCT SUPPORTS 6 FEET ON CENTER AND AT CHANGES OF

(8) DUCTWORK EXTERIOR OF THE BUILDING SHALL BE WEATHER TIGHT DOUBLE WALL SHEET METAL WITH 2" OF FIBERGLASS INSULATION (R-6 MINIMUM) BETWEEN WALLS. ONCE DUCTWORK PASSES THROUGH EXTERIOR WALL SINGLE WALL SHEET METAL DUCTWORK WITH EXTERIOR WRAP INSULATION SHALL BE

(9) WALL MOUNTED DUCT SMOKE DETECTOR MONITORING PANEL. PANEL SHALL BE CAPABLE OF AUDIO AND VISUAL ALARMS. AS ANY DETECTOR MALFUNCTIONS THE PANEL SHALL ACTIVATE ALARMS.

(10) WALL MOUNTED TEMPERATURE CONTROLLER SHALL BE FOR OPERATION OF UNIT. CONTROLLER SHALL BE DIRECT DIGITAL TYPE AND CAPABLE OF CONNECTION TO THE BUILDING AUTOMATION SYSTEM ON THE



WALL MOUNTED EXHAUST FAN DETAIL



JOB NO.: DRAWN: CHECKED: DATE: **REVISION:** $1 \setminus DCM COMMENTS 11.16.20$ $/2 \setminus DCM COMMENTS 12.10.20$

SHEET NO.:

SCALE:

HVAC PLAN

S. ACREI

2020.11.1

1/4"=1'-0"

HMY

ELECTRICAL SYMBOL LEGEND SYMBOL DESCRIPTION PANELBOARD - SEE RESPECTIVE PANELBOARD SCHEDULE. BRANCH CIRCUIT CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING. ARROWS INDICATE CIRCUIT HOMERUN, HASHMARKS INDICATE NUMBER OF CONDUCTORS, ABSENCE OF HASHMARKS INDICATES TWO CONDUCTORS PLUS GROUND. "A" DENOTES PANELBOARD SERVING CIRCUIT, "1" INDICATES CIRCUIT A/1 BREAKER SPACE IN PANELBOARD. SEE RESPECTIVE PANEL CIRCUIT SCHEDULE. MINIMUM CONDUCTOR SIZE = #12 AWG.INDICATES CONDUIT RUN UNDERGROUND. NON-FUSED DISCONNECT, HEAVY DUTY (SAFETY) SWITCH - SIZE AND TYPE AS NOTED. TOP OF SWITCH 6'-6" A.F.F. PROVIDE MECHANICALLY FASTENED PHENOLIC LABEL ELECTRIC MOTOR - SEE RESPECTIVE EQUIPMENT SCHEDULE. 20A, 125 VAC 2P., 3W., GROUNDING TYPE, DUPLEX RECEPTACLE. FLUSH WALL MOUNTED \Rightarrow 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE. INDICATES GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE. FLUSH WALL MOUNTED 18" A.F.F. WITH GROUND PIN FACING UP UNLESS NOTED OTHERWISE. POWER RELAY TO INTERLOCK WITH 277V LIGHTS OR MECHANICAL CONTROLS EQUIPMENT. COORDINATE VOLTAGE REQUIREMENTS WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL EQUIPMENT INTERLOCKS. ADDRESSABLE INTELLIGENT FIRE ALARM SYSTEM CONTROL PANEL — WITH CELLULAR AUTO—DIAL OUT. VOICE EVACUATION CAPABLE. FIRE ALARM SYSTEM ADDRESSABLE PULL STATION - SEMI FLUSH MOUNTED 48" A.F.F. TO TOP F UNLESS NOTED OTHERWISE. ADDRESSABLE INTELLIGENT CEILING MOUNTED FIRE ALARM SYSTEM PHOTOELECTRIC TYPE SMOKE \square_{SD} DETECTOR WITH BASE. FIRE ALARM SYSTEM SPEAKER / STROBE DEVICE CEILING MOUNTED, UNLESS NOTED OTHERWISE. ALL \mathbb{E} STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM UNLESS NOTED OTHERWISE. FIRE ALARM SYSTEM VISUAL DEVICE CEILING MOUNTED, UNLESS NOTED OTHERWISE. ALL STROBES IN COMMON SPACES OR CORRIDORS SHALL BE SYNCHRONIZED. STROBE SHALL BE 75 CANDELLA MINIMUM SPRINKLER SYSTEM FLOW SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR. SPRINKLER SYSTEM TAMPER SWITCH. FURNISHED BY FIRE ALARM SYSTEM SUPPLIER, INSTALLED BY FIRE TS PROTECTION (SPRINKLER) SYSTEM CONTRACTOR, AND CONNECTED TO FIRE ALARM SYSTEM CONTROL PANEL BY FIRE ALARM SYSTEM CONTRACTOR. ADDRESSABLE INTELLIGENT FIRE ALARM VOICE COMMAND CENTER. ADDRESSABLE INTELLIGENT FIRE ALARM FIRE FIGHTERS MICROPHONE FLUSH MOUNTED IN WALL. COORDINATE FINAL LOCATION WITH THE AHJ PRIOR TO ROUGH-IN. WP INDICATES WEATHER RESISTANT WIRING DEVICE WITH WEATHER PROOF IN-USE COVER PLATE. SYMBOLS NOTES: UNLESS OTHERWISE NOTED THE FOLLOWING SHALL APPLY:

- 1. ALL OUTLETS SHALL BE FLUSH MOUNTED.
- 2. MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
- 3. ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING. 4. ALL MULTI - GANG DEVICES SHALL USE A COMMON COVER PLATE
- 5. ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC.) SHALL BE GRAY WITH STAINLESS STEEL COVER PLATES
- 6. A.F.F. INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.
- 7. ALL WIRING SHALL BE COPPER.
- 8. DO NO INSTALL OUTLETS BACK TO BACK.
- 9. PROVIDE INDICATES THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL.
- 10. WHERE MORE THAN 3 CURRENT CARRYING CONDUCTORS MAY BE RUN IN A SINGLE CONDUIT. NEC SECTION 310.15 SHALL APPLY.

NEM	A 3R, SURFACE MOUNT	NEW	PA	NE	L M	IDP	SC	HE	DULE	
400/	A M.B. 240/120V 3ø 4W	(SERV	ICE E	NTRANC	E RATE	D)		22,000 AIC RA	TING
CKT NO.	LOAD DESCRIPTION		BRE/ POLE	AKER AMP	K\	/A	BREA AMP	KER Pole	LOAD DESCRIPTION	CKT NO.
1	PACU#1		3	200	59.2	50.0	200	2	EXISTING SERVICE DISCONNECT (S)	2
3										4
5						•	•	•	SPACE	6
7	NEW PANEL A	(S)	2	60	6.1	0.2	20	1	SERVICE RECEPTACLE (S)	8
9					•	•	•	•	SPACE	10
11	SPACE					•			SPACE	12

CONNECTED LOAD 115.5 KVA

(S) DO NOT CONNECT ANY SINGLE PHASE LOADS TO THE STINGER LEG OF THE HIGH PHASE DELTA SYSTEM.

100	A M.L.O. 240/120V 1ø 3W								22,000 AIC RA	TING
CKT NO.	LOAD DESCRIPTION		BREAKER KVA		/A	BREAKER AMP POLE		LOAD DESCRIPTION		CKT NO.
1	RECEPT 101	1	20	0.4	0.4	20	1	RECEPT 101		2
3	RECEPT 101	1	20	0.4	0.4	20	1	RECEPT 101		4
5	RECEPT 101	1	20	0.4	0.6	20	1	RECEPT 101		6
7	RECEPT EWC 101	1	20	1.0	0.4	20	1	RECEPT EXT, 102		8
9	RECEPT 102, 104, 106	1	20	0.6	0.9	20	1	EF#1		10
11	LIGHTS 101–107, EXTERIOR	1	20	1.3	•	20	1	SPARE		12

LIGHTING FIXTURE SCHEDULE

LIGHTING MANUFACTURERS OTHER THAN THOSE LISTED IN THIS SCHEDULE SHALL SUBMIT PRIOR APPROVAL NO LESS THAN 10 DAYS PRIOR TO BID. NO FIXTURES WILL BE REVIEWED AFTER THE 10 DAY DEADLINE, NO EXCEPTIONS. SUBSTITUTE PACKAGES MAY BE RESUBMITTED ONE TIME FOLLOWING THE INITIAL ENGINEER'S REVIEW. FAILURE TO PROVIDE AN APPROVED EQUIVALENT PACKAGE WILL RESULT IN DISAPPROVAL OF THE ENTIRE SUBSTITUTE PACKAGE. MANUFACTURERS NOT APPROVED PRIOR TO BID SHALL NOT BE SUBMITTED FOR CONSTRUCTION.

MANUFACTURERS LISTED AS EQUALS ON THIS SCHEDULE ARE PRE-APPROVED TO BID. PART NUMBERS LISTED ON THIS SCHEDULE ARE THE "AS SPECIFIED" FIXTURES. ANY MANUFACTURERS LISTED ON THIS SCHEDULE WITHOUT PART NUMBERS ARE NOT CONSIDERED "AS SPECIFIED". THE LIGHTING PACKAGE SUBMITTED FOR CONSTRUCTION SHALL MEET OR EXCEED THE LIGHTING SPECIFICATIONS AND THE "AS SPECIFIED" FIXTURES ON THIS SCHEDULE, AND COMPLY WITH THE DESIGN AND FUNCTIONALITY REQUIREMENTS SHOWN ON THE LIGHTING PLANS, NO EXCEPTIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THEIR LIGHTING PACKAGE IS EQUAL TO THE SPECIFICATIONS AND PLANS PRIOR TO BIDDING. ANY FIXTURE PACKAGE SUBMITTED FOR REVIEW DURING THE CONSTRUCTION PHASE THAT IS NOT EQUAL TO THE AS SPECIFIED FIXTURES AND PLANS WILL BE REJECTED. THE ACCEPTANCE OF AN EQUAL PACKAGE SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER. ANY ADDITIONAL COSTS INCURRED BY BRINGING AN INFERIOR LIGHTING PACKAGE UP TO THE STANDARDS OF THE SPECIFICATIONS, AS SPECIFIED LIGHTING FIXTURES, AND PLANS DUE TO LACK OF QUALITY AND/OR FUNCTION OF DESIGN SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HIS/HER LIGHTING SUPPLER, NO EXCEPTIONS. THESE REQUIREMENTS SHALL ALSO BE

	INCL	USIVE OF	ALL L	IGHTING	CONTROL SYSTEM	IS.	
	MARK		AMPS		MOUNTING	MANUFACTURER AND CATALOG NUMBER	NOTES
(EX		VATTS IW	TYPE LED RED	UNIVERSAL	HE WILLIAMS EXIT/CA-R-AF-BLK-EM-SDT CHLORIDE ER55LD3R BEGHELLI FMESALRUM-AT	PROVIDE ARROWS AS INDICATED ON PLANS, PROVIDE SINGLE/DOUBLE FACE AS INDICATED ON PLANS. EX1 INDICATES SINGLE FACE EX2 INDICATES DOUBLE FACE.
(FURN- 9 ISHED W/ FIXTURE	90W	LED 40K	SUSPENDED 10'0" A.F.G.	WILLIAMS GL 4 L150 8 35 VBY—2 DIM UNV DAYBRITE VISIONAIRE	
1	HBE	FURN- 9 ISHED N/ FIXTURE	90W	LED 40K	SUSPENDED 10'0" A.F.G.	WILLIAMS GL 4 L150 8 35 EM/12W/BMTD VBY-2 DIM UNV DAYBRITE VISIONAIRE	
	WP1E**	FURN- 5 ISHED W/ FIXTURE	55W	LED 40K	SURFACE WALL 8'0" A.F.G.	GARDCO 104L-16L-1000-NW-G1-3-EBPC-UNV-DD-PCB-IMRI2-F1-BZ HE WILLIAMS VISIONAIRE	PROVIDE WITH INTEGRAL PHOTOCELL ON/OFF CONTROL AND 30% DIMMING AFTER 15 MINUTES NO ACTIVITY.
		FURN- 4 ISHED V/ FIXTURE	17W	LED 35K	RECESSED GRID	DAY-BRITE 2FXP43L835-4-DS-UNV-DIM HE WILLIAMS LP-24-L50/835-DIM-UNV TRULY GREEN	
(FURN- 4 SHED W/ NIXTURE	17W	LED 35K	RECESSED GRID	DAY-BRITE 2FXP43L835-4-DS-UNV-DIM-EMLED HE WILLIAMS LP-24-L40/835-DIM-UNV-EM/10WRM TRULY GREEN	
(L5	VURN- 4 ISHED W/ IIXTURE	17W	LED 35K	RECESSED GRID	DAY-BRITE 2FXP48L835-4-DS-UNV-DIM HE WILLIAMS LP-24-L50/835-DIM-UNV TRULY GREEN EA-24-50-35-U-D	
1		FURN- 4 SHED W/ FIXTURE	17W	LED 35K	RECESSED GRID	DAY-BRITE 2FXP48L835-4-DS-UNV-DIM-EMLED HE WILLIAMS LP-24-L50/835-DIM-UNV-EM/10WRM TRULY GREEN EA-24-50-35-U-D-EM	
	** EIVT	TIDE CHA	NII DE	DDU/IDE	TO WITH DHOTO A	ND MOTION CONTROL AND DE DROCRAMMED TO DIM DY 30% DIJRING ANY DERIOD M	JUEDE NO ACTIVITY HAS DEEN DETECTED FOR

CONTRACTOR SHALL PROVIDE THE OWNER WITH RECORD DRAWINGS AND MANUALS THAT PROVIDE INSTRUCTION ABOUT THE OPERATION

AND MAINTENANCE OF THE BUILDING'S ELECTRICAL DISTRIBUTION

SYSTEM. REFER TO ASHRAE 90.1 2013 8.7.

** FIXTURE SHALL BE PROVIDED WITH PHOTO AND MOTION CONTROL AND BE PROGRAMMED TO DIM BY 30% DURING ANY PERIOD WHERE NO ACTIVITY HAS BEEN DETECTED FOR LONGER THAN 15 MINUTES. THE CONTRACTOR SHALL COORDINATE SPECIFIC REQUIREMENTS WITH THE FIXTURE MANUFACTURER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL CONTROLS AND ACCESSORIES HAVE BEEN PROVIDED WITH THE FIXTURE FOR A COMPLETE AND FUNCTIONAL ASSEMBLY REGARDLESS OF THE SPECIFIED MODEL NUMBER. SEE KEYNOTES ON LIGHTING PLANS FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

THE MOUNTING HEIGHTS/PENDANT LENGTHS OF ALL FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.

NOTE: ALL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED

SHALL BE PROVIDED WITH A LABEL IN ACCORDANCE WITH NEC 110.16. THE EQUIPMENT MANUFACTURER SHALL PROVIDE AN

ARC FLASH HAZARD ANALYSIS TO DETERMINE THE LEVEL OF PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED FOR EACH

ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR TO ENSURE THE OVER CURRENT PROTECTION

THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL ELECTRICAL SERVICE EQUIPMENT WITH A CONSPICUOUS AND PERMANENT LABEL THAT INDICATES THE AVAILABLE FAULT CURRENT AS FOLLOWS PER NEC 110.24:

"Panel XX"

"Maximum available fault current = ##,### Amps"

"Month DD, Year"

THE LABEL SHOULD BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL PANEL BOARDS IN AREA OF WORK THAT ARE TO REMAIN TO INDICATE ORIGIN OF POWER SUPPLY.

FOR THE SPECIFIC HVAC EQUIPMENT MEETS THE MANUFACTURER AND THE NATIONAL ELECTRICAL CODE REQUIREMENTS.

THE ELECTRICAL CONTRACTOR SHALL FIELD MARK ALL PANEL BOARDS WITH ORIGIN OF POWER SUPPLY. VIA

A. AVAILABLE INCIDENT ENERGY AND THE CORRESPONDING WORKING DISTANCE

D. HIGHEST HAZARD/RISK CATEGORY (HRC) FOR THE EQUIPMENT

ANY EXPOSED RACEWAY SHALL BE PAINTED TO MATCH THE BACKGROUND COLOR. PROVIDE FLANGE KITS FOR ALL FIXTURES INSTALLED IN A SHEET ROCK CEILING.

ANY PENETRATIONS THROUGH RATED WALLS SHALL BE

SEALED PER THE NEC WITH UL LISTED FIRE STOPPING

COMPOUND.

PIECE OF EQUIPMENT. LABEL SHALL INCLUDE:

B. MINIMUM ARC RATING OF CLOTHING

1. AT LEAST ONE OF THE FOLLOWING:

2. NOMINAL SYSTEM VOLTAGE 3. ARC FLASH BOUNDARY

C. REQUIRED LEVEL OF PPE

MECHANICALLY FASTENED PHENOLIC LABEL.

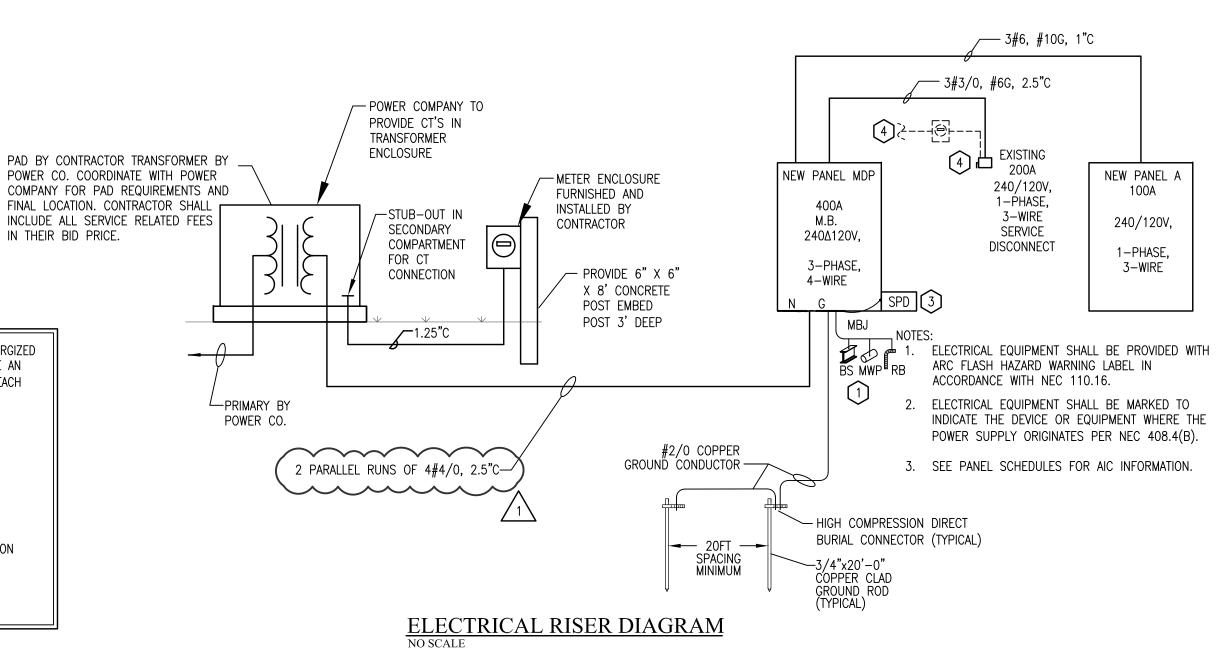
- CONTRACTOR SHALL ORDER FIXTURES WITH PROTECTIVE COVER OPTION TO PROTECT FIXTURES DURING CONSTRUCTION.
- FIXTURE TAGS THAT INCLUDE "E" SHALL BE PROVIDED WITH EMERGENCY BATTERY BACK UP.

CONTRACTOR SHALL PROVIDE A MINIMUM OF 4 HOURS OWNER TRAINING ON THE LIGHTING CONTROL SYSTEM BY A FACTORY CERTIFIED REPRESENTATIVE.

LIGHTING SYMBOL LEGEND SYMBOL DESCRIPTION "LED" LIGHTING FIXTURE. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE. "LED" LIGHTING FIXTURE WITH INTEGRAL BATTERY BACKUP. LED LIGHTING FIXTURE. LETTER(S) DENOTE TYPE - SEE OLIGHTING FIXTURE SCHEDULE. "LED" EXIT LIGHT. DARKENED QUADRANTS INDICATE ILLUMINATED FACES, ARROWS AS INDICATED. LETTER(S) DENOTE TYPE - SEE LIGHTING FIXTURE SCHEDULE. 20 AMP, 120/277 VAC SINGLE POLE TOGGLE SWITCH — FLUSH WALL MOUNTED 48" A.F.F. UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS: 3 - 20 AMP, 120/277 VAC THREE WAY TOGGLE SWITCH 4 - 20 AMP, 120/277 VAC FOUR WAY TOGGLE SWITCH DT - DUAL TECHNOLOGY MOTION SENSOR WALL SWITCH. WATTSTOPPER DW-100. TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. PROGRAM FOR "MANUAL ON". D - LOW VOLTAGE ON/OFF WITH 0-10V DIMMING WALL SWITCH EQUAL TO WATTSTOPPER DCLV2. PROGRAM FOR MANUAL ON. DUAL TECHNOLOGY CEILING-MOUNTED 360° OCCUPANCY SENSOR, WATTSTOPPER DT-300. SEE LIGHTING CONTROL WIRING DIAGRAM FOR ADDITIONAL INFORMATION. MOUNT AT LOCATION AS INDICATED ON PLANS. DEVICE SHALL BE PROGRAMMED FOR "AUTOMATIC ON" (UNLESS INDICATED OTHERWISE ON PLANS). PROGRAM SUCH THAT BOTH TECHNOLOGIES ARE REQUIRED TO TRIGGER LIGHTS "ON" AND EITHER TECHNOLOGY SHALL "HOLD" LIGHTS "ON". SEE PLANS FOR SENSOR LOCATIONS THAT ARE "MANUAL ON" ONLY \mathbb{S}^{MO} . TIME DELAY DURATION SHALL BE 20 MINUTES MAXIMUM. SEE MANUFACTURERS INSTRUCTIONS FOR APPROPRIATE DIP SWITCH SETTINGS. POWER PACK RELAY FOR CONTROL OF LIGHTING CONTROLS, EQUAL TO WATTSTOPPER CAT# BZ-150. MOUNT DEVICE IN AN ACCESSIBLE LOCATION. POWER PACK RELAY FOR CONTROL OF RECEPTACLES, EQUAL TO WATTSTOPPER CAT# BZ-200. MOUNT DEVICE IN AN ACCESSIBLE LOCATION.

SYMBOLS LEGEND GENERAL NOTES:

- ALL DEVICES ARE TO BE FLUSH MOUNTED.
- MOUNTING HEIGHTS ARE FROM THE CENTER LINE OF THE DEVICE.
- ALL SINGLE GANG AND TWO GANG DEVICES SHALL USE A 4" SQ. BOX WITH EXTENSION RING.
- 4. ALL MULTI GANG DEVICES SHALL USE A COMMON COVER PLATE COLORS FOR ALL DEVICES (i.e. SWITCHES, RECEPTACLES, TELEPHONE OUTLETS,
- ETC.) SHALL BE GRAY WITH STAINLESS STEEL COVER PLATES. LIGHTING CONTROL SYSTEM SHALL BE PROGRAMMED BY A CERTIFIED LIGHTING CONTROLS COMMISSIONING INSTALLER.
- CONTRACTOR SHALL REFERENCE DETAIL SHEETS E700.1 E700.3 FOR LOW VOLTAGE LIGHTING SWITCH WIRING REQUIREMENTS. CONTRACTOR SHALL REFERENCE DETAIL SHEETS E700.1 - E700.3 FOR LIGHTING CONTROL WIRING REQUIREMENTS.

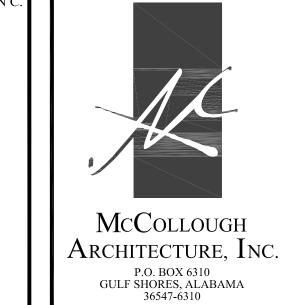


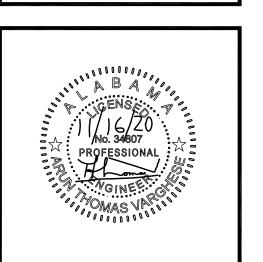
KEYNOTES:

GROUNDING ELECTRODE SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250. NOT USED.

[3] PROVIDE EXTERNAL, DISTRIBUTION PANEL RATED, CATEGORY-B SURGE PROTECTION DEVICE, 10-MODE, 180kA PER PHASE.

(4) REMOVE EXISTING SERVICE FEEDERS AND METER FROM THE POWER COMPANY. EXISTING MAIN SERVICE DISCONNECT SHALL BE SUB-FED FROM NEW PANEL MDP AS INDICATED. REMOVE GROUND TO NEUTRAL BONDING FROM SERVICE DISCONNECT.





PHONE: 251-968-7222

FOF NE

JOB NO.: ATVDRAWN: CHECKED: ATV 2020.11.10 DATE:

REVISION: / 1\ DCM COMMENTS AND **GENERAL REVISIONS**

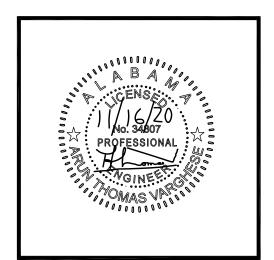
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SCALE: NOT TO SCALE

SHEET NO.:

ELECTRICAL LEGEND, SCHEDULES, AND RISER





CHOOL

NEW BUILDING EXPANSION
FOR

*E BEACH HIGH SC

JOB NO.:

DRAWN: ATV

CHECKED: ATV

DATE: 2020.11.16

REVISION:

1

DCM COMMENTS

11/16/20

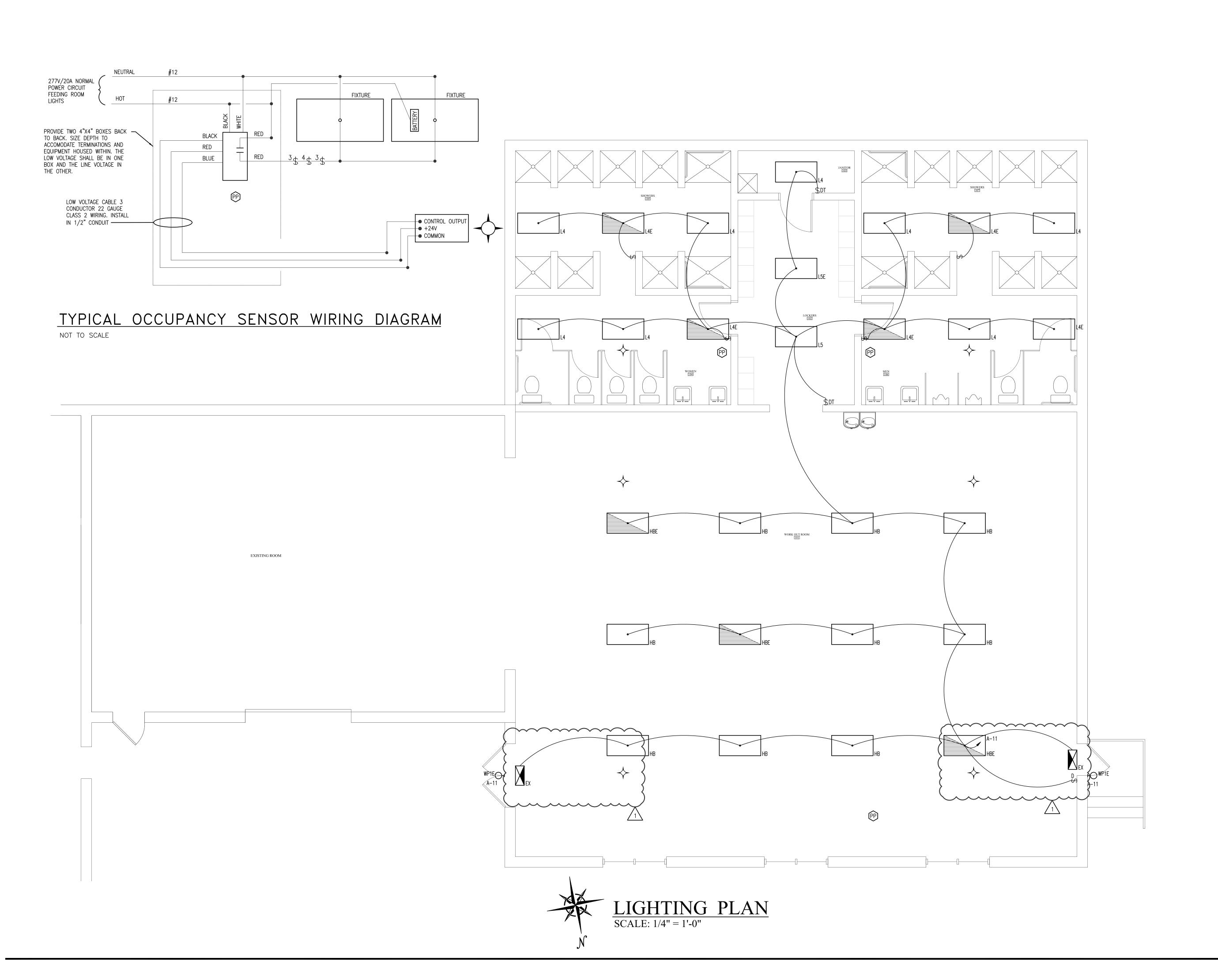
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SHEET NO.:

H.M. YONGE & ASSOCIATES, INC. CONSULTING ENGINEERS // EST. 1988

51 EAST GREGORY STREET 253 ST. ANTHONY STREET PENSACOLA, FLORIDA 32502 MOBILE, ALABAMA 36603 PHONE: (850)434-2661 PHONE: (251)690-7446

E1.1



1. 30 AMP SWITCH EQUAL TO HUBBELL HBL7832D OR HBL7810D, AS REQUIRED. PROVIDE PHENOLIC LABEL.

2. INDOOR DUCTLESS AIR HANDLER SECTION IS FED FROM OUTDOOR DUCTLESS CONDENSING UNIT SECTION.

OVERALL ELECTRICAL GENERAL NOTES:

a. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH THE EXTENT OF WORK REQUIRED TO

b. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL

c. ALL PRIMARY CONDUIT SHALL BE RUN AT 48" BELOW FINISHED GRADE. ALL SECONDARY AND EXTERIOR

UNDERGROUND BRANCH CIRCUIT CONDUIT(S) SHALL BE RUN 36" BELOW FINISHED GRADE.

PROVIDE ALL CONNECTIONS AS REQUIRED FROM OUTDOOR UNIT TO INDOOR UNIT. COORDINATE WITH MECHANICAL.

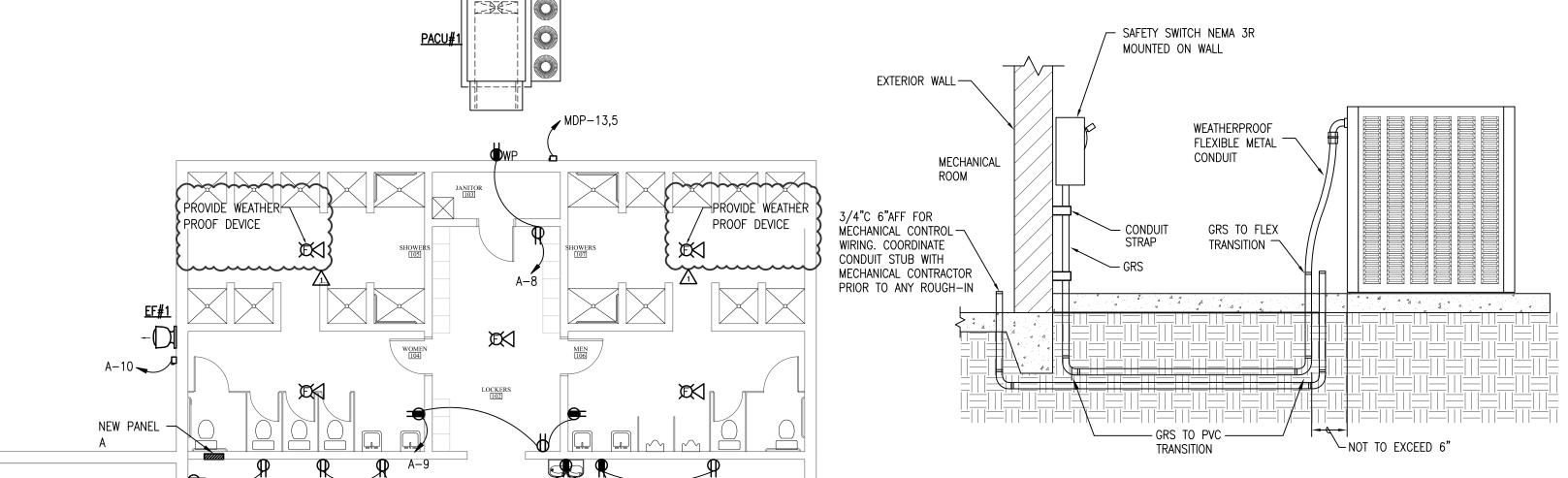
REFERENCE TYPICAL EXTERIOR PACKAGED UNIT ELECTRICAL CONNECTION DETAIL FOR EXTERIOR DISCONNECT MOUNTING AND CONNECTION REQUIREMENTS FOR ALL EXTERIOR HVAC EQUIPMENT.

COMPLETE THE JOB PRIOR TO BIDDING.

CONTRACTOR PRIOR TO ROUGH IN AND INSTALLATION.

N1 = NEMA 1 N3R = NEMA 3F

 \bowtie



WORK OUT ROOM

A-8 A-5

EXTERIOR PACKAGED UNIT ELECTRICAL CONNECTION DETAIL

ELECTRICAL NEW WORK KEY NOTES:

1) FIRE ALARM PULL STATION SHALL BE LOCATED IN A CONSTANTLY ATTENDED LOCATION PER IBC REQUIREMENTS. (2) REMOVE GROUND AND NEUTRAL BONDING JUMPER FROM SERVICE DISCONNECT.

HALL 2 HALL 1 BATH 2

BATH 1

HALL 3 BK RM

d. IN ALL MECHANICAL ROOMS, ALL CONDUIT AND BOXES ARE TO BE SURFACE MOUNTED. e. THE CONTRACTOR SHALL PROVIDE WEATHER PROOF / FIRE SEAL AS REQUIRED ON ALL EXTERIOR WALL \bowtie f. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE ANY NECESSARY COMPONENTS (i.e.

Ø

ENSURE A FULLY FUNCTIONAL CAMPUS WIDE SYSTEM. g. ALL PHASING OF WORK SHALL BE SCHEDULED WITH THE OWNER AND ARCHITECT PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL SCHEDULE ALL OUTAGES WITH THE OWNER AT LEAST (14) DAYS IN ADVANCE AND ANY GIVEN OUTAGE SHALL NOT BE A DURATION IN EXCESS OF (8) HOURS.

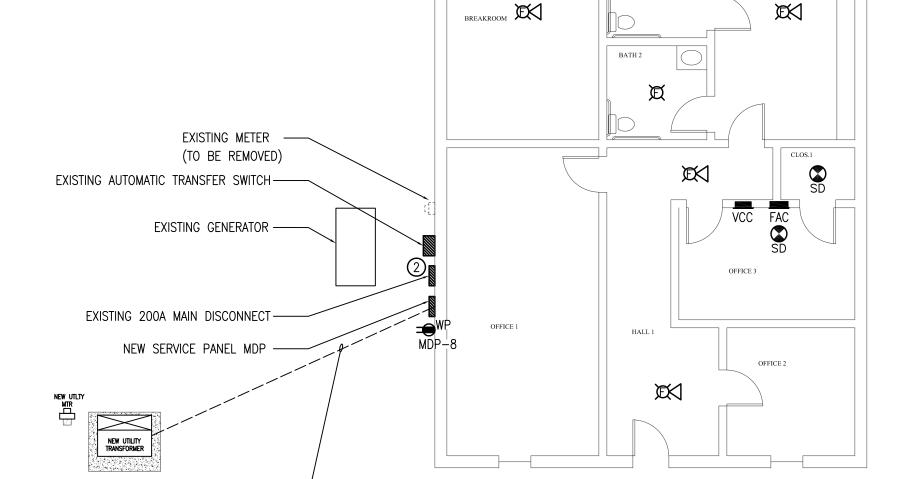
BOOSTER PANELS) AND MAKE ALL THE NECESSARY CONNECTIONS FROM THE NEW FIRE ALARM DEVICES AND JUNCTION BOX TO THE EXISTING FIRE ALARM CONTROL PANEL IN THE EXISTING ADMIN BUILDING AND THE TO

NEW UNDERGROUND SERVICE.—

SEE RISER FOR MORE

INFORMATION.

h. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND WORK WITH OTHER EXISTING/NEW UTILITIES TO AVOID



SHOWERS WOMEN LOCKERS WORKOUT WORKOUT PROVIDE WIRING AS RECOMENDED — BY MANUFACTURER; 3/4"C (TYPICAL) • NEW FIRE ALARM CONTROL PANEL WITH VOICE COMMAND CENTER. — • PROVIDE WITH CELLULAR AUTO-DIAL SYSTEM OVERALL ELECTRICAL PLAN MASTER PANEL - FACP#1 REMOTE MICROPHONE. CONTRACTOR SHALL COORDINATE —

> FIRE ALARM SYSTEM RISER DIAGRAM NOT SO SCALE

FIRE ALARM SYSTEM GENERAL NOTES:

- a. VERIFY EXACT NUMBER OF DEVICES FROM FLOOR PLAN, NOT RISER DIAGRAM.
- b. THE NAC CIRCUITS ARE SHOWN DIAGRAMMATIC. MAXIMUM NUMBER OF DEVICES ON ANY CIRCUIT IS LIMITED. PROVIDE ADDITIONAL HARDWARE AS REQUIRED.
- c. SLC LOOP TO CONNECT ALL FIRE ALARM SYSTEM DEVICES FROM FLOOR PLANS. PROVIDE ADDITIONAL LOOP(S) AS REQUIRED.
- d. BATTERY CABINETS AND NAC EXPANDERS SHALL BE LOCATED BELOW OR ADJACENT TO FIRE ALARM CONTROL PANEL.

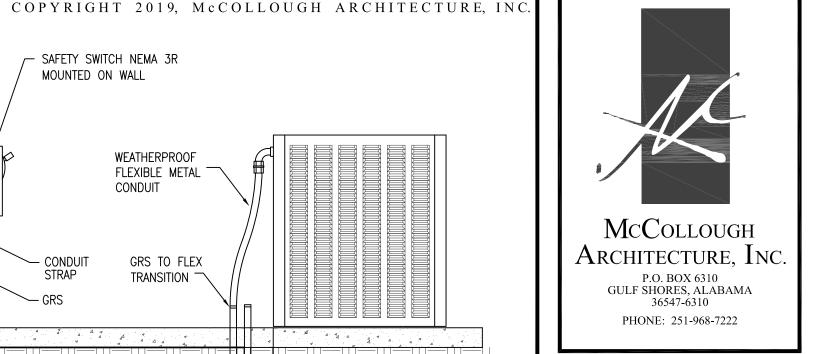
LOCATION IN BUILDING WITH LOCAL AHJ PRIOR TO ANY

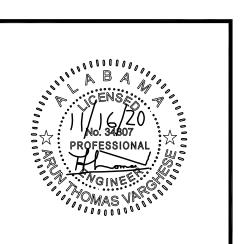
LOCATION AS INDICATED BY LOCAL AHJ. (TYP FOR 3)

ROUGH-IN. MICROPHONE SHALL BE INSTALLED AT

- e. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA 72 (LATEST EDITION). SHOP DRAWINGS SHALL COMPLY WITH NFPA 72 SECTION.
- f. SPLICING OF FIRE ALARM WIRING IS STRICTLY PROHIBITED.
- g. UPON PROJECT COMPLETION THE CAMPUS WIDE FIRE ALARM SYSTEM SHALL BE RE-CERTIFIED AND TESTED. PROVIDE WITH A RECORD OF COMPLETION AS REQUIRED IN NFPA 72.
- h. THE FIRE ALARM INSTALLER SHALL BE LICENSED AS A CERTIFIED FIRE ALARM CONTRACTOR. THE CONTRACTOR MUST HAVE A NICET LEVEL III TECHNICIAN IN A POSITION OF RESPONSIBILITY, AND THE LICENSE SHALL BE ISSUED IN THE NAME OF THE CERTIFICATE HOLDER AND THE CONTRACTOR. TECHNICIANS WORKING FOR THE CERTIFIED CONTRACTOR MUST HOLD A CURRENT NICET LEVEL II, OR EQUIVALENT, CERTIFICATION. CONTRACTORS WISHING TO BID ON FIRE ALARM WORK SHALL SHOW EVIDENCE AT THE PRE-BID CONFERENCE THAT HE/SHE MEETS THE CERTIFICATION REQUIREMENTS AND HOLD A PERMIT ISSUED BY THE STATE OF ALABAMA FIRE MARSHAL.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. AUTOMATIC TELEPHONE DIALING DEVICES USED TO TRANSMIT AN EMERGENCY ALARM SHALL NOT BE CONNECTED TO ANY FIRE DEPARTMENT TELEPHONE NUMBER UNLESS APPROVED BY THE FIRE CHIEF.







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1/8"=1'-0"

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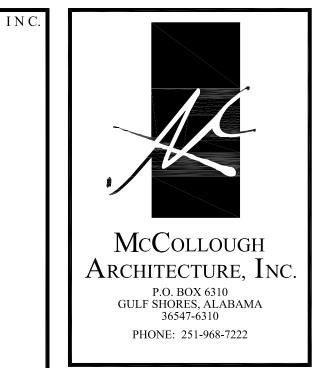
ELECTRICAL PLAN

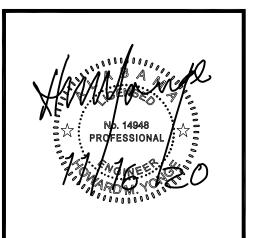
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SANITARY WASTE KEYNOTES

1 SERVICE SINK: EQUAL TNC-24-TF2 SINK (24"x24"x12" WITH 1/2" CW, 1/2" HW, 3" DRAIN), WITH ZURN Z843M1-RC FAUCET, CORNER TYPE FLOOR MOUNTED SINK, DOUBLE FAUCET, VACUUM BREAKER STAINLESS STEEL RIM GUARD, TERRAZZO.

2 PROVIDE TRAP PRIMER.





ILDING EXPANSION FOR ACH HIGH SCHOC FIELD HOUSE

JOB NO.:

DRAWN: LMS

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DATE: 2020.11.16

REVISION:

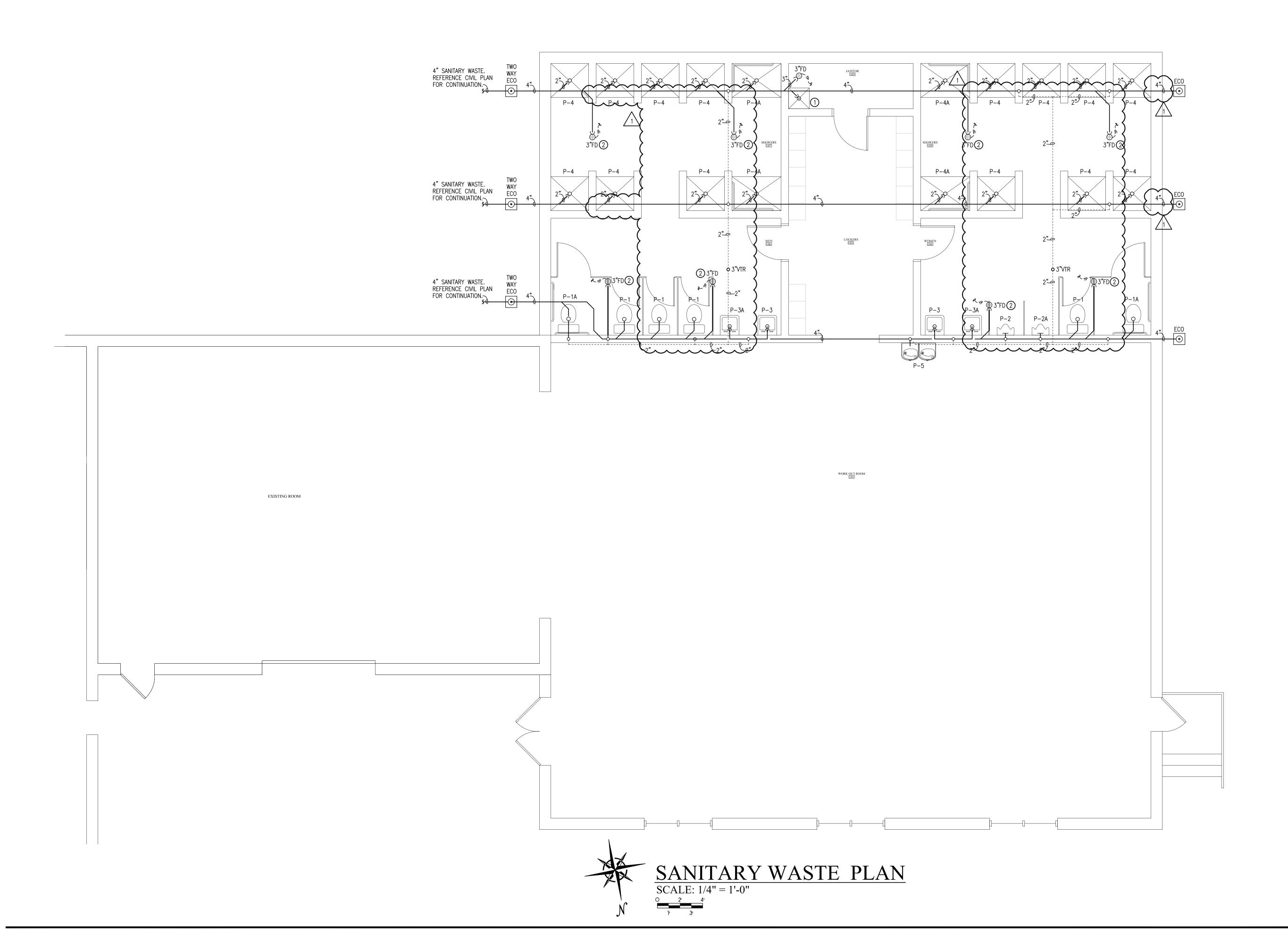
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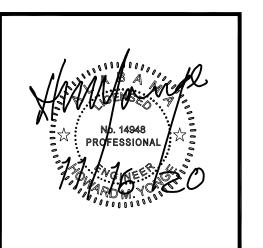
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P1.1
SANITARY WASTE PLAN

1/4"=1'-0"







PHONE: 251-968-7222

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2020.11.10

1/4"=1'-0"

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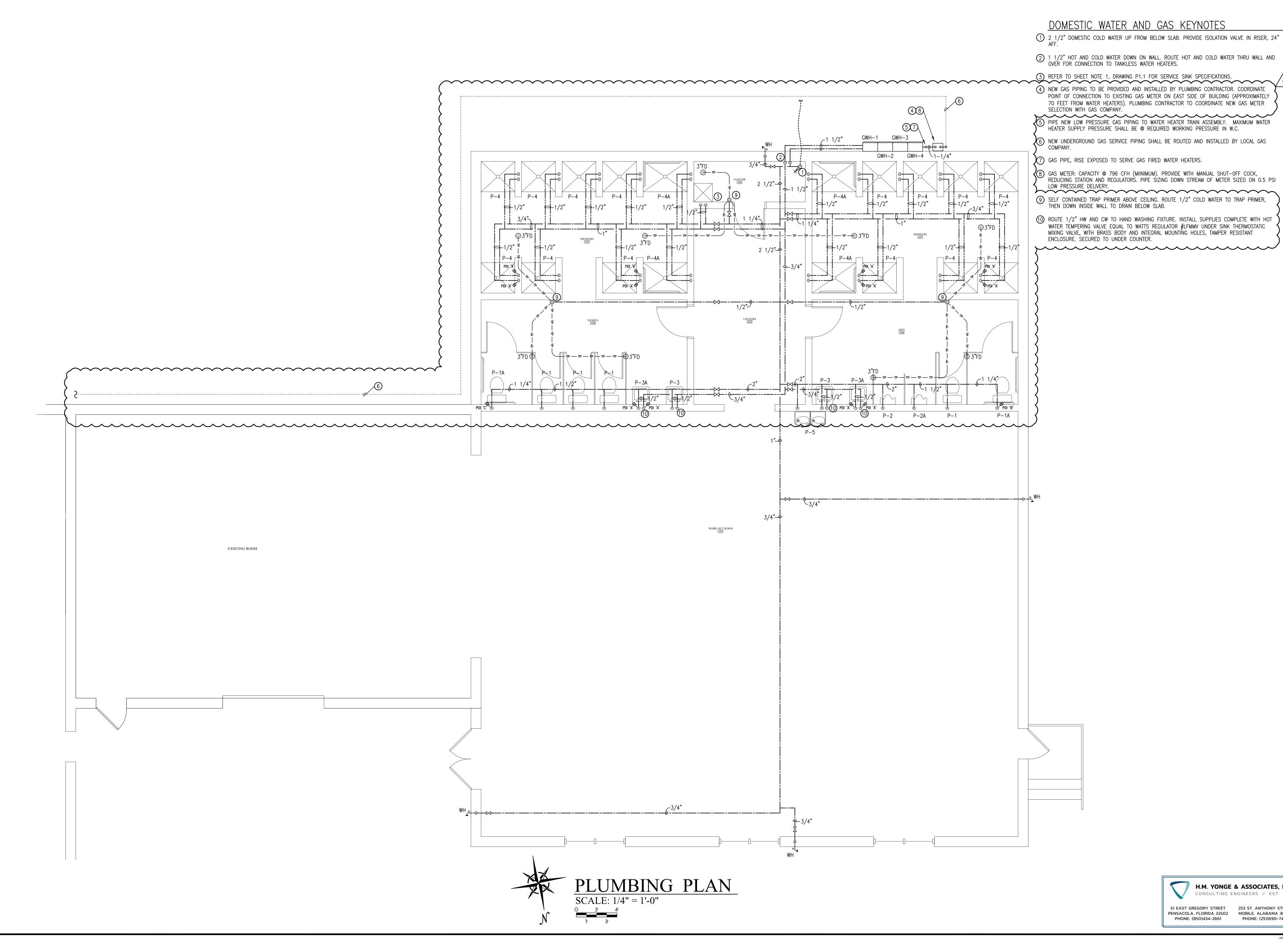
H.M. YONGE & ASSOCIATES, INC.

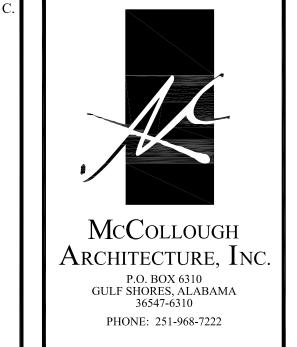
PHONE: (251)690-7446

51 EAST GREGORY STREET 253 ST. ANTHONY STREET PENSACOLA, FLORIDA 32502 MOBILE, ALABAMA 36603

PHONE: (850)434-2661

PLUMBING PLAN







NEW BUILDING EXPANSION FOR ORANGE BEACH HIGH SCHO

JOB NO.:

DRAWN: LMS

CHECKED: HMY

DATE: 2020.11.16

REVISION:

1 DCM COMMENTS 11.16.20

2 DCM COMMENTS 12.10.20

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

SHEET NO.:

PLUMBING RISER DIAGRAMS

GENERAL PLUMBING NOTES

- 1.) COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
- 2.) PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WATER
- 3.) FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING.
- 4.) ALL PIPING PASSING THROUGH MASONRY WALLS SHALL HAVE A SLEEVE PER SPECIFICATIONS.
- 5.) ALL PIPING PASSING THROUGH FIRE-RATED WALLS SHALL HAVE A FIRE-RATED SLEEVE PER
- 6.) ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW GRADE.
- UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
- 8.) PRIOR TO SUBSTANTIAL COMPLETION OF NEW AND ALTERED WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
- 9.) ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. VTR LOCATIONS SHALL MAINTAIN REQUIRED MINIMUM DISTANCE FROM ALL FRESH AIR INTAKE OPENINGS.
- 10.) ALL PIPING PENETRATIONS THROUGH WALLS OR FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE WALLS OR FLOORS.
- 11.) PLAN INSTALLATION OF NEW WORK AND CONNECTIONS TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH THE BUILDING OWNER.
- 12.) ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
- 13.) ALL COMPONENTS OF PLUMBING SYSTEMS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
- POTENTIAL SUBCONTRACTORS ARE REQUIRED TO BE THOROUGHLY FAMILIAR WITH ALL REQUIREMENTS OF THE DIVISION 15 WORK, AS WELL AS THE WORK INDICATED IN OTHER DIVISIONS.
- 15.) ALL WORK SHALL FIT THE SPACES AVAILABLE. VERIFY ALL DIMENSIONS AND CLEARANCES OF THE WORK BEFORE COMMENCING FABRICATION AND/OR INSTALLATION.
- 16.) MINOR DEVIATIONS FROM THE DRAWINGS REQUIRED TO CONFORM TO ACTUAL SPACE CONDITIONS AND TO PROVIDE THE REQUIRED OPERATIONS, SERVICE, OR MAINTENANCE ACCESSIBILITY SHALL BE MADE AT NO ADDITIONAL COST, AND SUBJECT TO APPROVAL.
- 17.) COORDINATION OF ELECTRICAL EQUIPMENT CHARACTERISTICS: COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL DIVISION PRIOR TO ORDERING.
- 18.) PLANS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED; REFER TO ARCHITECTURAL DRAWINGS FOR
- 19.) THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING AND FIRE PROTECTION SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS 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 CONTACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL TRADES. PIPE ROUTING SHOWN AS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCE WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, STRUCTURAL MEMBERS, ETC.
- 21.) COORDINATE ALL FLOOR AND WALL PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. COORDINATE WITH EXACT SIZE AND LOCATION OF ALL SLEEVES WITH STRUCTURAL ENGINEER. ALL PENETRATIONS MUST BE SEALED WITH PROPER FIRE STOP MATERIAL AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE. VERIFY RATING OF ALL CONSTRUCTION AND PROVIDE PROPER FIRE STOP MATERIAL AND/OR DEVICES FOR APPLICABLE HOUR RATING OF PENETRATIONS.
- 22.) PROVIDE 12" X 12" ACCESS PANELS FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON ACCESSIBLE CEILING AND INSIDE PIPE CHASES. EXACT LOCATION AND TYPE OF ALL ACCESS PANELS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND APPROVED BY OWNER PRIOR TO INSTALLATION.
- 23.) ALL PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS. LOCATE ALL UTILITY SHUT OFF VALVES WITHIN 1'-0" FROM ACCESS POINT. HOLD ALL OTHER PIPING ABOVE CEILING OR BELOW FLOOR AS HIGH AS POSSIBLE.
- 24.) ALL DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED @ 1/4" PER FOOT MINIMUM. ALL DRAINAGE PIPING 3" AND LARGER SHALL BE SLOPED AND 1/8" PER FOOT MINIMUM.
- 25.) HOSE BIBBS SHALL BE MOUNTED 1'-6" ABOVE FLOOR/GRADE.

ACTUAL DIMENSIONS.

- 26.) PROVIDE 4" HIGH CONCRETE EQUIPMENT PADS WITH ANCHOR BOLTS FOR ALL EQUIPMENT. PADS SHALL BE A MINIMUM OF 6" LARGER THAN FOOTPRINT OF EQUIPMENT SERVED ON ALL SIDES.
- 27.) REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL PLUMBING FIXTURES MUST BE VERIFIED IN FILED PRIOR TO INSTALLATION. LOCATION SHALL BE AS DIRECTED BY OWNER.
- 28.) EXACT LOCATION OF ALL FLOOR DRAINS AND HUB DRAINS FOR EQUIPMENT MUST BE VERIFIED IN FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY OWNER.
- 29.) MAKE FINAL CONNECTION TO ALL EQUIPMENT INDICATED ON DRAWINGS. FINAL CONNECTION SHALL INCLUDE ANY ADAPTERS, NIPPLES, SHUT OFF VALVES, PRESSURE REGULATOR VALVES, DIRT LEGS, SHOCK ABSORBERS, BACK FLOW PREVENTION DEVICES, ETC., AS REQUIRED TO PROVIDE A FULLY OPERATIONAL SYSTEM.
- 30.) DO NOT RUN PIPING THROUGH OR OVER ELECTRICAL CLOSETS, ELECTRICAL SWITCH GEAR ROOMS, OR TELEPHONE ROOM. EQUIPMENT MUST BE VERIFIED IN FIELD PRIOR TO INSTALLATION.
- 31.) PROVIDE BASE CLEAN OUT AT LOWEST FLOOR LEVEL ON ALL SANITARY STACKS, WASTE STACKS AND RAINLEADERS. EXACT LOCATION OF ALL CLEAN OUTS MUST BE COORDINATED AND APPROVED PRIOR TO INSTALLATION.
- 32.) ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCKOUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
- 33.) PROVIDE AN EXPANSION JOINT OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS THAT CROSS BUILDING EXPANSION JOINTS.
- 34.) SOIL, WASTE, AND VENT LINES LOCATED BELOW GRADE SHALL BE SCHEDULE 40 PVC-DWV IN ACCORDANCE WITH COMMERCIAL STANDARDS CS272-65 OR ASTM STANDARDS D2665-68 OR NO-HUB SERVICE WEIGHT CAST IRON IN ACCORDANCE WITH CISPI STANDARD 301 AND ASTM A-888. SOIL, WASTE, AND VENT LINES LOCATED ABOVE GRADE SHALL BE NO-HUB SERVICE WEIGHT CAST IRON IN ACCORDANCE WITH CISPI STANDARD 301 AND ASTM A-888.

	PLUMBI	NG LEGEND
	S or W	SOIL OR WASTE PIPING
	٧	VENT PIPING
	CW	COLD WATER SUPPLY PIPING
	HW	HOT WATER SUPPLY PIPING (110°F)
— TP — TP — TP —	TP	TRAP PRIMER PIPING
— 140 — 140 —	HW	HOT WATER SUPPLY PIPING (140°F)
G	G	GAS PIPINIG
	GV	GATE VALVE
	CV	CHECK VALVE
<u>——5—</u>	BV	BALL VALVE
——————————————————————————————————————	НВ	HOSE BIBB
——————————————————————————————————————	WH	WALL HYDRANT
<u> </u>	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
<u> </u>	COTG	CLEANOUT TO GRADE
──		UNION
	VTR	VENT THRU ROOF
1		SHEET NOTE
	SK	SINK
	AFF	ABOVE FINISH FLOOR
	ADA	AMERICANS WITH DISABILITIES ACT
	GWH	GAS WATER HEATER
	HD	HUB DRAIN
	BTUH	BRITISH THERMAL UNITS PER HOUR
	WCO	WALL CLEANOUT
<u> </u>		

PLUMBING COORDINATION NOTES

- 1. CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION DRAWINGS WHICH IDENTIFY AND RESOLVE POTENTIAL CONFLICTS BETWEEN PLUMBING WORK, STRUCTURAL, FIRE SPRINKLER, HVAC DUCT, AND ELECTRICAL SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ANY EXISTING MATERIALS OR SYSTEMS ABOVE EXISTING CEILINGS WHICH MAY INTERFERE WITH THE INSTALLATION OF NEW SYSTEMS OR UTILITIES.

GENERAL SANITARY SEWER PIPING NOTE

COORDINATE SANITARY SEWER WASTE AND VENT PIPING WITH STRUCTURAL FOUNDATION FOOTINGS, PRIOR TO ACTUAL LAYOUT OF WORK. CONSULT WITH PROJECT ENGINEERS AND ARCHITECT ANY CONFLICTS OCCURRING BETWEEN PLUMBING PIPING AND FOUNDATION WORK. WORK ALTERED DUE TO UNFORESEEN JOB CONDITIONS SHALL BE DONE BY CONTRACTOR WITH NO ADDITIONAL COST TO OWNER.

GENERAL UNDERGROUND PIPING NOTE

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DETERMINING ALL EXISTING SITE CONDITIONS AFFECTING WORK UNDER THIS CONTRACT, INCLUDING THE TYPE AND EXTENT OF SURFACE TREATMENT SUCH AS CONCRETE OR ASPHALT PAVING, AND LOCATION OF ALL BURIED UTILITIES. LOCATION AND ROUTING OF NEW UNDERGROUND PIPING IS APPROXIMATE. CONTRACTOR SHALL COORDINATE FINAL LOCATION AND ROUTING OF PIPING TO AVOID CONFLICTS WITH EXISTING BURIED UTILITIES AND OTHER OBSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF EXISTING BURIED UTILITIES PRIOR TO COMMENCING EXCAVATION WORK UNDER THIS PROJECT. CONTRACTOR SHALL REPAIR DAMAGE TO EXISTING UTILITIES WHICH OCCURS AS A RESULT OF OPERATIONS PERFORMED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO OWNER. REPAIRS SHALL BE MADE USING MATERIALS & METHODS TO MATCH EXISTING CONSTRUCTION AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO RE-COVERING.

	PLU	MBING	FI.	XTUR	?E (CONNECTION SCHEDULE 12345		
MARK	FIXTURE	WASTE	CONNECTIONS CW HW GAS			DESCRIPTION		
P-1	WATER CLOSET (STANDARD HEIGHT @ 14")	3"	1"			FLOOR MOUNTED, MANUAL FLUSH VALVE		
P-1A	WATER CLOSET (HANDICAP HEIGHT @ 17")	3"	1"			FLOOR MOUNTED, MANUAL FLUSH VALVE		
P-2	URINAL (STANDARD HEIGHT)	2"	3/4"			WALL MOUNTED, MANUAL FLUSH VALVE, CHAIR CARRIER		
P-2A	URINAI (HANDICAP HEIGHT)	2"	3/4"			WALL MOUNTED, MANUAL FLUSH VALVE, CHAIR CARRIER		
P-3	LAVATORY	1-1/4"	1/2"	1/2"		WALL MOUNT, CHAIR CARRIER, VITREOUS CHINA, SINGLE LEVER FAUCET		
P-3A	LAVATORY (HANDICAP)	1-1/4"	1/2"	1/2"		WALL MOUNT, CHAIR CARRIER, VITREOUS CHINA, INSULATION KIT, GOOSENECK SPOUT, WRIST BLADE HANDLES		
P-4	SHOWER	2"	1/2"	1/2"		PRESSURE BALANCING MIXING VALVE, COPPER NICKEL CHROME PLATED TRIM, SATIN NIKALOY STRAINER		
P-4A	SHOWER (HANDICAP)	2"	1/2"	1/2"		PRESSURE BALANCING MIXING VALVE, COPPER NICKEL CHROME PLATED TRIM, WALL/HAND SHOWER W FLEXIBLE METAL HOSE & SLIDE BAR, SATIN NIKALOY STRAINER		
P-5	ELECTRIC DRINKING FOUNTAIN (HANDICAP)	1-1/4"	1/2"	1/2"		WALL MOUNT, CHAIR CARRIER, SELF-CONTAINED, STAINLESS STEEL TOP, DUAL PURPOSE, TWO LEVELS		
GWH-1	GAS WATER HEATER		3/4"	3/4"	3/4"	CONDENSING INDOOR GAS TANKLESS WATER HEATER, 199,000 BTUH, MAXIMUM FLOW RATE 10 GPM, THERMAL EFFICIENCY 96%		
GWH-2	GAS WATER HEATER		3/4"	3/4"	3/4"	CONDENSING INDOOR GAS TANKLESS WATER HEATER, 199,000 BTUH, MAXIMUM FLOW RATE 10 GPM, THERMAL EFFICIENCY 96%		
GWH-3	GAS WATER HEATER		3/4"	3/4"	3/4"	CONDENSING INDOOR GAS TANKLESS WATER HEATER, 199,000 BTUH, MAXIMUM FLOW RATE 10 GPM, THERMAL EFFICIENCY 96%		
GWH-4	GAS WATER HEATER		3/4"	3/4"	3/4"	CONDENSING INDOOR GAS TANKLESS WATER HEATER, 199,000 BTUH, MAXIMUM FLOW RATE 10 GPM, THERMAL EFFICIENCY 96%		
FD	FLOOR DRAIN	3"	1/2"			DEEP SEAL, TRAP PRIMER		
WH	WALL HYDRANT		3/4"			VACUUM BREAKER, KEYED		
НВ	HOSE BIBB		3/4"			VACUUM BREAKER, KEYED		
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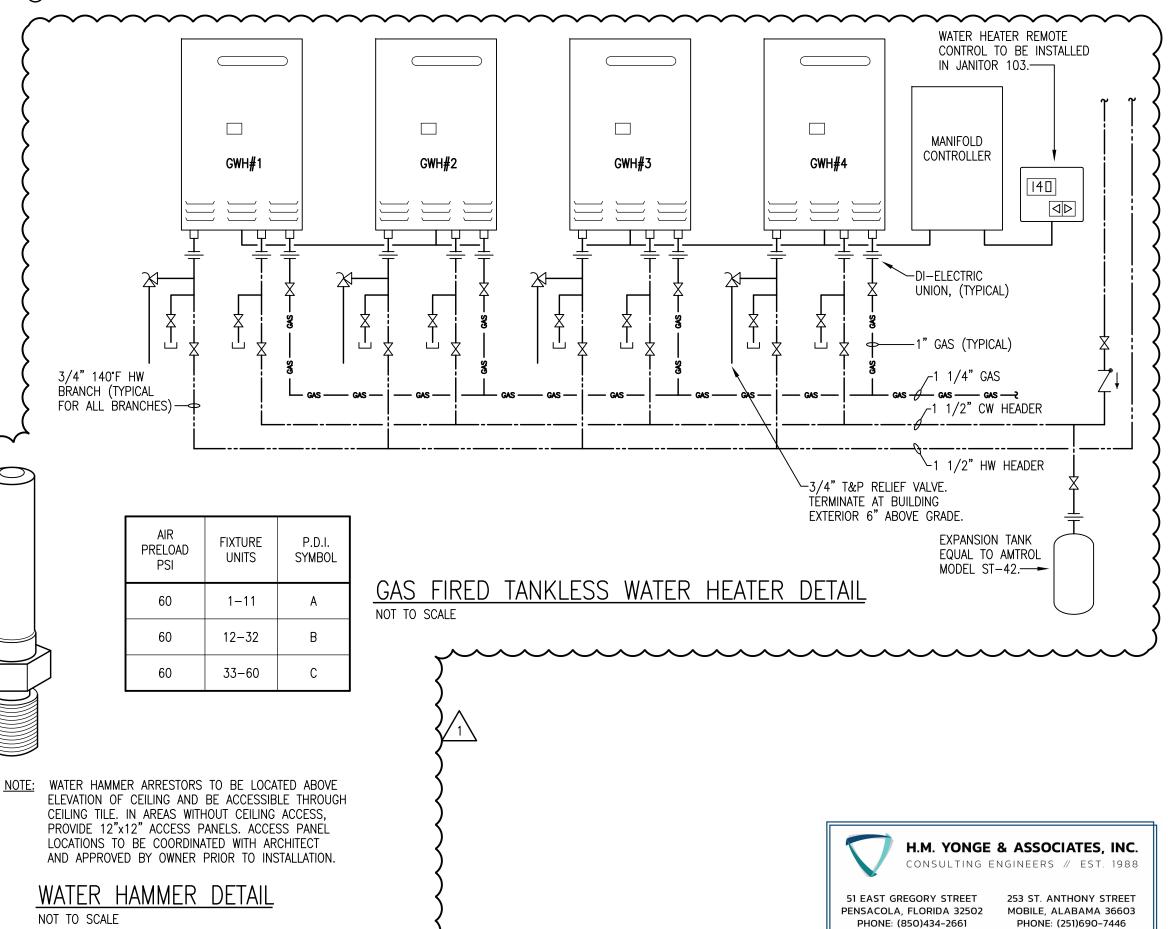
ALL PLUMBING FIXTURES SHALL BE WHITE, UNLESS INDICATED OTHERWISE SPECIFIED. PLUMBING CONTRACTOR SHALL COORDINATE ALL PLUMBING FIXTURES AND ROUGH—IN REQUIREMENTS WITH NUIPMENT SURPLIER, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS ON ALL FIXTURES. ALL WALL MOUNTED FIXTURES SHALL RE SUPPORTED BY FLOOR MOUNTED CARRIERS. SEE PÉCIFICATIONS FOR MORE INFORMATION.

SHEET NOTES

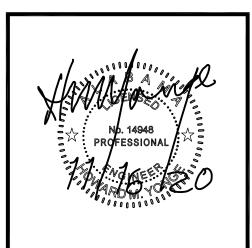
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- (1) WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
- (2) SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
- 3) PROVIDE HOT WATER TO FIXTURES, WHERE INDICATED.

- PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF
- (5) MOUNT PLUMBING FIXTURES LABELED "HANDICAP" IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE WITH ARCHITECTURAL DRAWINGS.







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PLUMBING DETAILS

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