ADDITIONS AND ALTERATIONS TO HOMER SMILES STADIUM **1771 WHITMIRE STREET, LEEDS, ALABAMA 35094 LEEDS CITY BOARD OF EDUCATION**

LEEDS CITY BOARD OF EI	OWNER	LEE	
CHAD ANDERSON	PRESIDENT		151
CRICKETT FORD	VICE PRESIDENT		LEE
KATHY DUTTON	BOARD MEMBER		
DR. AARON MOYANA	BOARD MEMBER	ARCHITECT	LAI 300
SCOTT SISK	BOARD MEMBER		SUI
JOHN MOORE	SUPERINTENDENT		HO
			EMA

DRAWING INDEX (SET - 113 TOTAL SHEETS)

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T1 I S1 1	- TITLE AND INDEX - LIFE SAFETY PLANS		A5.1 - A5.2 -		
20111			A6.1 -	INTERIOR I	
CIVI		(22 SHEETS)	A6.2 -	INTERIOR I	
		()	A6.3 -	INTERIOR I	
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C1.1	- SITE DEMOLITION PLAN (STORM DRAINAGE AND	UTILITIES)	A7.2 -	ENLARGE	
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C3.1	- DRAINAGE PLAN		A0.3 -		
C3.2	- GRADING & DRAINAGE PLAN - ALTERNATE		A9.1 -		
C4.0	- EROSION CONTROL PLAN - INITIAL PHASE	~-	Α3.2 -		
C4.1	- EROSION CONTROL PLAN - INTERMEDIATE PHAS	E			
C4.2	- ERUSION CONTROL PLAN - FINAL PHASE			DETAILS A	
	- ERUSION CONTROL PLAN - ALTERNATE - INITIAL		A10.2-	DUGOUT F	
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C4.5		FNASE		ELEVATIO	
C4.0 C4.7	- EROSION CONTROL DETAILS		A10.4 -	PAVILION	
C5 0				SECTIONS	
C5.1	- SANITARY SEWER PLAN & PROFILE		A10.5 -	EXISTING	
C6.0	- CIVIL DETAILS		A10.5.1	- EXISTING	
C6.1	- CIVIL DETAILS		A10.6 -	PARTIAL E	
C6.2	- CIVIL DETAILS				
ARC	HITECTURAL DRAWINGS	(39 SHEETS)	STR	JCTUF	
A1.0 -	ARCHITECTURAL SITE PLAN		S1.0	- GENERA	
A1.1 -	DIMENSIONAL SITE PLAN		S1.1	- GENERA	
A1.2 -	DIMENSIONAL SITE PLAN		S1.2	- TYPICAL	
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A2.2 -	UPPER LEVEL FLOOR PLAN AND DETAILS		S1.4	- TYPICAL	
A2.3 -	DOOR, WINDOW, STOREFRONT SCHEDULE, AND DE	TAIL	S1.5	- TYPICAL	
A2.4 -	DOOR AND WINDOW DETAILS		S2.1	- FOUNDA	
A2.5 -	ROOF PLAN AND DETAILS		S2.2	- UPPER L	
A2.5.1	- ROOF DETAILS		_	PLAN	
A2.5.2	- ROUF DETAILS		S2.3	- ROOF FR	
A3.1.1	- BUILDING ELEVATIONS		S2.4	- DUGOUT	
AJ.2.1	- BUILDING SECTIONS		S3.1	- SECTION	
~J.∠.∠ ∆2 2 1	- BUILDING SECTIONS		53.2	- SECTION	
Δ332	- WALL SECTIONS		53.3	- SECTION	
Δ333	- WALL SECTIONS		53.4 62 E	- SECTION	
Δ334	- WALL SECTIONS		33.5 62.6	- SECTION	
A4.1 -	ENLARGED STAIR PLANS AND SECTIONS		33.0	- SECTION	
A4.2 -	STAIR. GUARDRAIL AND HANDRAIL DETAILS				

A4.3 - ELEVATOR SECTIONS AND DETAILS

EDS CITY BOARD OF EDUCATION 17 HURST AVENUE NE EDS, ALABAMA 35094

THAN ASSOCIATES ARCHITECTS, P.C. OO CHASE PARK SOUTH ITE 200 DOVER, ALABAMA 35244 AIL: RFI@LATHANASSOCIATES.COM

CIVIL TTL

10 INVERNESS CENTER PARKWAY SUITE 350 BIRMINGHAM, ALABAMA 35242

MECHANICAL / WHORTON ENGINEERING, INC. PLUMBING 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

TURAL DRAWINGS CONT.

D TOILET PLANS AND DETAILS

- **ELEVATIONS AND DETAILS ELEVATIONS**
- DETAILS
- **DETAILS**
- ED CEILING PLAN LOWER AND UPPER
- GENDS AND DETAILS
- D REFLECTED CEILING PLAN LOWER AND VEL
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- HEDULE AND MATERIALS LEGEND
- NAGE PLAN LOWER LEVEL
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- LOOR PLAN, BUILDING SECTIONS,
- **ELEVATIONS, WALL SECTIONS AND**
- AND LEGENDS
- ENLARGED SECTIONS AND BENCH DETAILS E GATE DETAILS, SECTIONS, PLAN, AND

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GYM ROOF PLAN G GYM ROOF DETAILS EXISTING GYM BUILDING FLOOR PLAN

RAL DRAWINGS

- L NOTES L NOTES CONTINUED
- DETAILS **DETAILS**
- **DETAILS**
- DETAILS **TION PLAN**
- **_EVEL FRAMING AND LOWER ROOF FRAMING**

(16 SHEETS)

RAMING PLAN FOUNDATION AND ROOF FRAMING PLAN **NS AND DETAILS** IS AND DETAILS

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FIRE PROTECTION DRAWINGS (2 SHEETS)

SP1.1 - LOWER LEVEL FIRE SPRINKLER PLUMBING PLAN SP2.2 - FIRE SPRINKLER PLUMBING PLANS

PLUMBING DRAWINGS

- PLUMBING SCHEDULES, LEGEND, AND NOTES
- PLUMBING SCHEDULES P1.2 P1.3
 - PLUMBING DETAILS
- WASTE PLUMBING PLAN P2.1
- WASTE PLUMBING RISER DIAGRAM P2.2 P3.1
 - WATER AND GAS PLUMBING PLAN
- WATER PLUMBING RISER DIAGRAMS P3.2
- CONDENSATE PLUMBING PLANS P4.1
- P4.2
- P5.1

MECHANICAL DRAWINGS (14 SHEETS)

- M1.1 HVAC LEGEND, NOTES, AND SCHEDULES
- M1.2 HVAC SCHEDULES
- M1.3 HVAC SCHEDULES
- M1.4 HVAC SCHEDULES AND DETAILS
- M2.1 HVAC DETAILS
- M2.2 HVAC DETAILS
- M2.3 HVAC IAQ/COMPLIANCE CALCULATIONS
- M2.4 HVAC VARIABLE REFRIGERANT FLOW DIAGRAM
- M2.5 HVAC VARIABLE REFRIGERANT FLOW DIAGRAM
- M3.1 LOWER AND UPPER LEVEL HVAC PLANS
- M3.2 ATTIC HVAC PLAN
- M3.3 GYMNASIUM HVAC PLAN
- M4.1 LOWER AND UPPER LEVEL HVAC REFRIGERANT
- PIPING PLANS
- M4.2 ATTIC HVAC REFRIGERANT PIPING PLAN

ELECTRICAL DRAWINGS

- E1.1 SCHEDULES, SYMBOLS, AND NOTES
- E2.1 SITE PLAN AND SINGLE LINE DIAGRAM
- E3.1 LOWER LEVEL FLOOR PLAN LIGHTING
- E3.2 UPPER LEVEL FLOOR PLAN LIGHTING
- E4.1 LOWER LEVEL FLOOR PLAN POWER
- E4.2 UPPER LEVEL FLOOR PLAN POWER
- E5.1 LOWER LEVEL FLOOR PLAN AUXILIARIES E5.2 - UPPER LEVEL FLOOR PLAN - AUXILIARIES

(8 SHEETS)

(10 SHEETS)

- ATTIC CONDENSATE PLUMBING PLANS
- GYMNASIUM PLUMBING PLANS



STRUCTURAL STRUCTURAL DESIGN GROUP, INC. 300 CHASE PARK SOUTH SUITE 125 HOOVER, ALABAMA 35244

ELECTRICAL STEWART ENGINEERING, INC. P.O. BOX 2233 ANNISTON, ALABAMA 36202



LATHAN

ARCHITECTS

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REQUIRED TOTALS PROVIDED TOTALS

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	OCCUPANCY CLASSIFICATION:						GROUP A3					
							TYPE IIB (SM))	LATHAN	
	UPPER LEVEL FLOOR AREA:						9,479 S.F. 6.416 S.F.				ARCHITECTS	
	TABLE 504.4 ALLOWABLE NUMBER OF STORIES:						ALLOWABL 3	E STORIE	S: AC	TUAL STORIES: 2		
	TABLE 506.2 ALLOWABLE AREA:					AREA FACTOR: S1 28,500 S.F.		28,500 S.F.				
TABLE 601 AND 705.5 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:				CONSTRUCTION TYPE: IIB STRUCTURAL FRAME: 0		0 0						
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								1. 705.5 EXTERIOR: $\langle 3 \rangle$ 1 $\geq 5' < 10'$ 1 $\geq 10' < 30'$ 0 $\geq 30'$ 0			≥5'<10' 1	⁹⁴
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GROUP A3 EXISITNG - X? ?(S) - SPRINKLERED ?(NS) - UNSPRINKLERED JOB NO. 23-12; SHEET NO:						JOB NO. 23-125 SHEET NO:						
												LS1.1

TADIUM S, AL ADDITIONS AND ALTERATIONS TO: HOMER SMILES S 1771 WHITMIRE STREET, LEEDS, AI LEEDS CITY SCHOOLS TE OF ALAB No. 3365 RICK N. LATHAN





JOB NO. 23-125 SHEET NO: LS1.1 2 OF 2 1"

GENERAL PROJECT NOTES:

- 1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AS PROVIDED BY UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES "POTHOLING" THEM BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ALABAMA ONE-CALL, LOCAL WATER AUTHORITIES, AND UTILITY PROVIDERS, ETC. FOR UTILITY LOCATES. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED AND REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
- 2. ANY EXISTING PROPERTY CORNERS (I.E.- IRON PIPES, CAPPED PIPES, CAPPED MONUMENTS, ETC). DISPLACED OR DAMAGED DURING CONSTRUCTION SHALL BE RESET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE A FINAL PUNCH LIST/CLOSEOUT ITEM. PROJECT PROPERTY CORNERS SHALL BE STAKED AND FLAGGED BY THE OWNER'S REPRESENTATIVE. 3. THE CONTRACTOR MUST MAINTAIN ACCESSIBLE DRIVES AND PUBLIC ROADWAYS. ANY ADDITIONAL STONE, GRADING, INSTALLATION.
- ETC. TO MAKE SIDEWALKS, DRIVES, AND ROADWAYS ACCESSIBLE DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
- 4. THE CONTRACTOR SHALL KEEP THE PROJECT RIGHTS-OF-WAY CLEAN FROM TRASH AND DEBRIS. PLACEMENT/DISCARDING OF TRASH AND REFUSE IN UTILITY TRENCHES AND/OR OTHER EXCAVATIONS ASSOCIATED WITH THE PROJECT SHALL BE PROHIBITED. THE CONTRACTOR SHALL PROVIDE TRASH RECEPTACLES FOR WORKER USE. THE ROADWAYS AND SIDEWALKS SHALL BE SWEPT AND WASHED DOWN TO LIMIT THE TRACKING OF DIRT FROM THE PROJECT ONTO PUBLIC RIGHTS-OF-WAY DAILY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
- 5. CONFLICTS MAY ARISE BETWEEN EXISTING AND PROPOSED UNDERGROUND FACILITIES. CROSSINGS OF REQUIRED AND EXISTING GRAVITY UTILITIES SHALL BE EXCAVATED AND ELEVATIONS VERIFIED AT THE BEGINNING OF THE PROJECT BEFORE ANY UTILITIES ARE INSTALLED TO MAKE SURE THERE ARE NO CONFLICTS. WHEN THESE CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE. ADJUSTMENTS AS SPECIFIED BY THE OWNER'S REPRESENTATIVE SHALL BE MADE IN THE PROPOSED AND/OR EXISTING FACILITIES. IF CONFLICTS OCCUR WHILE INSTALLING GRAVITY UTILITIES AND THE CONTRACTOR DID NOT IDENTIFY ELEVATIONS AT CROSSINGS IN ADVANCE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTIVE ACTION, INCLUDING BUT NOT LIMITED TO, REMOVING AND INSTALLING THE MAIN AND/OR STRUCTURES. WITH THE NUMEROUS EXISTING UTILITIES ON-SITE, IT IS IMPERATIVE THAT THESE BE VERIFIED BEFORE INSTALLATION OF PROPOSED WORK.
- 6. AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SURFACES (I.E., CURB AND GUTTERS, SIDEWALK, DRIVES. STORM SEWER BOXES, BRICK PAVERS, EXISTING BUILDING BRICK, ETC.), SPECIFICALLY EXISTING CONCRETE ABUTTING REQUIRED CONCRETE SURFACES WITHIN THE PROJECT RIGHT-OF-WAY TO ELIMINATE STAINING FROM EARTHEN MATERIAL, CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
- 7. EXISTING LANDSCAPED AREAS PARALLEL TO THE PROJECT IMPACTED/DAMAGED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THIS WORK. 8. ALL ACCESSIBLE RAMPS AND SIDEWALKS SHALL BE ADA COMPLIANT.
- 9. ALL TEMPORARY STONE FOR ROADWAY, SIDEWALK, DRIVES, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO TEMPORARY STONE SHALL BE WASTED ON THE SITE SPECIFICALLY IN THE FINAL SUBGRADE LAYER AND TOPSOIL. EXCESSIVE STONE WILL INHIBIT THE GROWTH OF THE LANDSCAPE. ALL STONE SHALL BE REMOVED FROM AREAS TO RECEIVE TOPSOIL, NO EXCEPTIONS.
- 10. THE CONTRACTOR SHALL INSTALL TEMPORARY ASPHALT PATCHING WITHIN 24 HOURS AFTER THE COMPLETED INSTALLATION OF UTILITY CROSSINGS ON ROADWAYS OPEN TO TRAFFIC. IF THE ROADWAY IS CLOSED TO LOCAL TRAFFIC THEN ALL ASPHALT CUT LOCATIONS SHALL BE PATCHED BEFORE THE ROADWAY IS REOPENED. THE CONTRACTOR SHALL NOT BE ALLOWED TO INSTALL ALL UTILITIES AND THEN TEMPORARY ASPHALT PATCH ALL AT ONE TIME. TEMPORARY ASPHALT PATCHING MUST OCCUR PERIODICALLY PHASED AS REFERENCED ABOVE.
- 11. WHEN TEMPORARY ASPHALT PATCHING OCCURS THE MIX SHALL BE HOT MIXED AS SPECIFIED IN THE PLANS. ASPHALT COLD MIXES SHALL NOT BE ACCEPTED. POORLY PATCHED CROSSINGS DISPLAYING NONUNIFORM, UNSMOOTH FINISHES SHALL NOT BE ACCEPTED AND SHALL BE REMOVED AT ONCE. THE REPATCH OF THE AREA SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE. 12. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT.
- THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE AT ALL TIMES.
- 13. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH LEEDS CITY SCHOOLS, PRIVATE UTILITY COMPANIES, AND ANY OTHER OWNER OR GOVERNING AGENCY WITH EXISTING INFRASTRUCTURE OR JURISDICTION IN THIS AREA.

DEMOLITION NOTES:

- 1. THE PROJECT DEMOLITION, CLEARING AND GRUBBING GENERAL AREAS HAVE BEEN REFLECTED ON THE DEMOLITION PLAN. THE AREA IS GENERAL IN NATURE AND IS INTENDED TO GIVE THE CONTRACTOR AN APPROXIMATE AREA OF DEMOLITION. REGARDLESS OF THE AREA SHOWN, THE CONTRACTOR SHALL DEMOLISH, CLEAN AND GRUB ALL AREAS AND EXISTING INFRASTRUCTURE (ABOVE AND BELOW GROUND) NECESSARY TO COMPLETE ALL FINAL IMPROVEMENTS AS SHOWN ON THE CIVIL, ARCHITECTURAL, LANDSCAPE/IRRIGATION, ETC. CONSTRUCTION PLANS.
- 2. ALL AREAS DISTURBED BY THE CONTRACTOR; INCLUDING BUT NOT LIMITED TO ACTUAL IMPROVED AREAS, LAYDOWN AREAS, AREAS DISTURBED BY MOVING EQUIPMENT SHALL BE IMPROVED PER THE REQUIREMENTS OF THE PLANS, NO EXCEPTIONS.
- 3. ANY PERMANENT AND/OR CONSTRUCTION FENCING (EXISTING OR REQUIRED PER THE PLANS) REQUIRED TO BE REMOVED/RESET FOR INSTALLATION OF SITE, UTILITY, BUILDING, ETC. IMPROVEMENTS SHALL BE DONE SO AT NO ADDITIONAL COST TO THE PROJECT AND IS CONSIDERED INCIDENTAL. THE PLANS HAVE BEEN NOTED WITH GENERAL AREAS THIS IS TO OCCUR IN. THE REMOVAL AND/OR REPLACEMENT LIMITS WILL BE DETERMINED IN THE FIELD.

GRADING NOTES:

- 1. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" TOPSOIL APPLIED, BE GRASSED AND MULCHED, AND/OR SODDED AS SOON AS FINAL GRADING IS COMPLETE. REFER TO EROSION CONTROL NOTES FOR TEMPORARY GRASSING AND MULCHING DURING GRADING OPERATIONS.
- 2. ALL ENGINEERED FILL MATERIALS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE WELL IN ADVANCE OF FILL OPERATIONS. THE CONTRACTOR SHALL IDENTIFY ALL BORROW SOURCES FOR PD SAMPLES TO BE TAKEN AND EVALUATED. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE COMPACTED IN LOOSE 8" LIFTS AS PER THE OWNER'S REPRESENTATIVES REQUIREMENTS. SEE THE GEOTECHNICAL REPORT FOR THIS INFORMATION.
- 3. THE CONTRACTOR SHALL CLEAR AND GRUB AS NECESSARY WHERE GRADING OPERATIONS ARE TO BE PERFORMED AS SHOWN. THE MAJORITY OF THE PROJECT WILL REQUIRE CLEARING AND REMOVAL OF EXISTING SIDEWALK, DRIVES, CURB AND GUTTER, CURBING, TREE STUMP REMOVAL, TOPSOIL, GRADING, ETC. AS SHOWN THROUGHOUT THE PROJECT CONSTRUCTION PLANS AND CONTRACT DOCUMENTS.
- 4. ALL EXISTING WATER VALVES, UTILITY VAULT TOPS, METER BOXES, ROADWAY SIGNS, INFORMATIONAL SIGNS, ETC. NOTED ON THE DEMOLITION PLAN SHALL BE REMOVED, STOCKPILED IN A SECURE LOCATION, AND/OR RESET AS PER THE CONTRACT DOCUMENTS. BEFORE FINAL GRADING THE CONTRACTOR SHALL MAKE SURE UTILITIES INCLUDING STORM DRAIN, SANITARY, WATER DISTRIBUTION
- AND FIRE PROTECTION, ELECTRICAL, VIDEO, IRRIGATION, ETC. IMPROVEMENTS HAVE BEEN INSTALLED. 6. THE CONTRACTOR SHALL NOTE CHANGE IN GRADES AND REQUIRED RAMPS WHEN LAYING OUT SCORING AND HANDICAP RAMPS.
- ALL ADA ACCESSIBLE RAMP GRADES AND SIDEWALK CROSS SLOPE SHALL MEET ADA REQUIREMENTS. 7. GRADING OPERATIONS SHALL INCLUDE TOPSOIL STRIPPING AND REMOVAL THROUGHOUT THE PROJECT SITE, UNCLASSIFIED EXCAVATION, AND BORROW EXCAVATION, ROCK REMOVAL, ETC. TO BRING THE SITE TO FINISHED SUBGRADE (ONLY LEAVING PAVEMENTS AND TOPSOIL TO REACH FINAL FINISHED GRADE) AS SHOWN ON THE CONSTRUCTION PLANS. NO EXTRA PAYMENT WILL BE MADE FOR EXCESS MATERIAL BROUGHT ON-SITE, MATERIAL REQUIRED TO BE MOVED MULTIPLE TIMES BECAUSE OF CONSTRUCTION PHASING, OR EXCESS MATERIAL TO BE REMOVED FROM THE SITE UPON GRADING COMPLETION.
- 8. THERE SHALL BE NO DEBRIS (ROOTS, ROCKS, ETC.) IN THE TOPSOIL LARGER THAN ¹/₇" IN DIAMETER. THERE ALSO SHALL BE NO WASTED TEMPORARY GRAVEL, CONCRETE, OR ANY OTHER BUILDING MATERIALS FOUND IN THE TOPSOIL. ANY FOUND DEBRIS SHALL BE REMOVED IMMEDIATELY.
- 9. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE PLACED IN MAXIMUM LOOSE 8" LIFTS TO 98% OF THE STANDARD PROCTOR MAXIMUM (ASTM D 698) DRY DENSITY, AS DIRECTED BY THE GEOTECHNICAL REPRESENTATIVE. THE GEOTECHNICAL REPORT COMPACTION REQUIREMENTS SHALL BE THE REQUIREMENT FOR THE PROJECT

STORM DRAIN NOTES

- TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED. 3. ALL REQUIRED STORM SEWER STRUCTURE RING AND COVER TOPS SHALL MATCH TOP OF CURB, ROADWAY AND/OR VEGETATED FINISHED GRADE ELEVATIONS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLANS. ANY ADJUSTMENTS TO LEVEL RING AND COVER TOP ELEVATIONS WITH FINAL ASPHALT, SODDING, ETC. SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE STORM
- DRAIN STRUCTURE INSTALLATION. 4. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORMWATER FLOW IN EXISTING AND PROPOSED STORM SEWERS WITHIN THE PROJECT LIMITS AND IF AFFECTED BY CONSTRUCTION ACTIVITIES, OUTSIDE THE PROJECT LIMITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY AND ALL MATERIAL AND LABOR REQUIRED FOR TEMPORARY STORM SEWERS AND/OR PUMPS THAT MAY BE REQUIRED FOR BYPASSING. THE OWNER OR ITS REPRESENTATIVES SHALL NOT ACCEPT ANY RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY, OR ACCEPT ANY RESPONSIBILITY FROM CLAIMS OR DAMAGES RESULTING FROM THE FAILURE OF THE
- CONTRACTOR'S TEMPORARY STORM SEWER BYPASS FACILITIES. 5. ALL STORM DRAIN STRUCTURES ARE REQUIRED TO HAVE REBAR REINFORCEMENT IN THE WALLS, BOTTOM, AND TOP. ALTHOUGH THE TOPS VARY FOR AN S-INLET, GRATE INLET, AND JUNCTION BOX, THE BOX ITSELF IS THE SAME AND REBAR REINFORCEMENT SHALL BE PLACED PER THE STANDARD DETAIL AND NOTES
- 6. CONICAL MANHOLE SECTIONS AND MANHOLE RIMS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE.
- 7. WHEN TYING TO EXISTING UTILITY PIPING WITH STORM DRAIN, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST
- 8. CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH STORM STRUCTURE CONICAL SECTION AND RING AND COVER TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT. 9. THE CONTRACTOR MAY USE PRECAST CONCRETE STORM STRUCTURES FOR THE STANDARD/SPECIAL STRUCTURES REQUIRED ON THE
- CONSTRUCTION PLANS. 10. THE CONTRACTOR SHALL NOTE EXISTING STORM DRAIN AND STORM DRAIN STRUCTURES TO BE RETAINED AS PART OF THIS PROJECT.
- THE CROSSING.

SANITARY SEWER NOTES:

- FOOTPRINT.
- 2. THE CONTRACTOR SHALL VERIFY CONNECTIONS FOR FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWER PIPING AND MANHOLE INVERTS BEFORE INSTALLING ANY REQUIRED SANITARY SEWER STRUCTURES AND PIPING.
- 3. ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH ASPHALT FINISHED GRADES. TOPS INSTALLED TOO HIGH SHALL BE RESET AT NO ADDITIONAL COST TO THE PROJECT.
- 4. ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPED WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTING, ETC. 5. WHEN TYING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES. THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO
- REMOVE/REPLACE AT HIS COST. 6. THE CONTRACTOR SHALL MAKE SURE THAT THERE IS FLEXIBILITY IN EACH SANITARY SEWER CONICAL SECTION AND RING AND COVER TO ENSURE FINAL RING ELEVATION MATCHES FINAL PAVEMENT ELEVATION. FAILURE TO DO SO WILL REQUIRE REMOVAL OF AS MUCH STRUCTURE AS NECESSARY TO ALLOW TOP RING AND COVER TO MATCH PAVEMENT 7. THE CONTRACTOR SHALL KEEP ALL LIVE SANITARY MAINS AND LATERALS FLOWING CONTINUOUSLY BY WHATEVER MEANS
- CONSIDERED INCIDENTAL TO THE PROJECT.

GENERAL UTILITY NOTES:

- WORK REQUIRED TO CORRECT THE DAMAGE.

MODULAR WALL NOTES:

- MODULAR RETAINING WALLS SHALL BE A TOTAL DESIGN BUILD BY THE CONTRACTOR. THE CONTRACTOR'S WALL DESIGNER/INSTALLER SHALL HAVE AT LEAST 10 YEARS OF EXPERIENCE IN THE DESIGN AND INSTALLATION OF SEGMENTAL RETAINING WALLS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, INCLUDING WALL DETAILS AND DESIGN PARAMETERS, STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA.
- CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A GEOTECHNICAL ENGINEER TO PERFORM SITE EXPLORATION TO GATHER INFORMATION CONCERNING SUBSURFACE SOILS TO BE USED IN THE DESIGN OF THE WALL. A WALL SPECIFIC GEOTECHNICAL REPORT/LETTER STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWINGS.
- CONTRACTOR SHALL NOTE THAT THE PROPOSED WALL WILL HAVE TRAFFIC ADJACENT TO IT AND ALL SURCHARGE LOADING FROM TRAFFIC SHALL BE ACCOUNTED FOR IN THE DESIGN OF THE WALL. WALL DESIGNER SHALL EVALUATE INTERNAL STABILITY, EXTERNAL STABILITY, AND OVERALL GLOBAL STABILITY FOR THE WALL DESIGN. SAFETY FACTORS FOR THE WALL DESIGN SHALL BE IN ACCORDANCE WITH NATIONAL CONCRETE MASONRY ASSOCIATION
- (NCMA) DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS. 5.1. AT A MINIMUM, EVALUATION OF INTERNAL STABILITY SHALL INCLUDE THE DETERMINATION OF THE SAFETY FACTORS AGAINST GEOGRID TENSILE OVERSTRESS (RUPTURE), GEOGRID PULLOUT, AND INTERNAL SLIDES MODES OF FAILURE. AT A MINIMUM, EVALUATION OF EXTERNAL STABILITY SHALL INCLUDE THE DETERMINATION OF THE CENTER OF GRAVITY OF 5.2. THE WALL AND ESTIMATING THE SAFETY FACTORS AGAINST OVERTURNING, SLIDING, BEARING CAPACITY, AND
- SETTLEMENT MODES OF FAILURE
- OVERALL GLOBAL STABILITY OF THE WALL SHALL BE EVALUATED TO ENSURE A SAFETY FACTOR AGAINST GLOBAL FAILURE OF AT LEAST 1.3. THE EVALUATION OF GLOBAL STABILITY SHALL CONSIDER CONDITIONS DURING WALL CONSTRUCTION (TEMPORARY CONDITIONS) AND AFTER WALL CONSTRUCTION.
- CONTRACTOR SHALL ACCOUNT FOR ANY DRAINAGE CONDITIONS OCCURRING ABOVE THE WALL SUCH AS A FLUME OR SWALE TO

EXISTING UTILITY NOTES

- APWA UNIFORM COLOR CODE FOR MARKING UNDERGROUND UTILITY LINES WHITE - Proposed excavation PINK - Temporary survey markings RED - Electric Power Lines, Cables, Conduit and Lighting Cables YELLOW - Gas, Oil, Steam, Petroleum or
- Gaseous Materials BLUE - Potable Water PURPLE - Reclaimed Water, Irrigation and
- Slurry Lines GREEN - Sewers and Drain Lines

811 (INSIDE ALABAN (800) 292-8525 (INSIDE AND OUTSIDE OF ALABAMA)





SPECIFIED IN LAW OR CODE. IF NOT, 500 mm (18") IS REQUIRED FROM EACH SIDE OF THE FACILITY. THE TOLERANCE ZONE INCLUDES THE WIDTH OF THE FACILITY PLUS 18" (500 mm) MEASURED HORIZONTALLY FROM EACH SIDE OF THE FACILITY

PAVING, SIGNING AND STRIPING NOTES:

1. STORM DRAIN STRUCTURE RINGS AND COVERS AND STEPS SHALL BE INSTALLED ON THE STRUCTURE WALL FREE OF PIPING AND/OR INLET THROAT OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. 2. STORM DRAIN STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE STORM STRUCTURE

- THIS EXISTING INFRASTRUCTURE SHALL BE USED TO DRAIN THE PROJECT DURING PHASES OF CONSTRUCTION. PROPER EROSION CONTROL METHODS SHALL BE USED TO PROTECT THIS INFRASTRUCTURE. 11. THE CONTRACTOR SHALL BACKFILL THE SPACE (WHEN BETWEEN 6 INCHES AND 2 FEET) BETWEEN STORM DRAIN AND SANITARY
- SEWER MAINS WHEN CROSSING WITH NO. 57 STONE MECHANICALLY CONSOLIDATED IN-PLACE TO PREVENT ANY SETTLEMENT AT THE CROSSING. THIS STONE SHALL EXTEND THE WIDTH OF THE UTILITY TRENCH TO APPROXIMATELY FOUR (4) FEET TO EITHER SIDE OF
- 12. THE CONTRACTOR SHALL GROUT AS NECESSARY ALL LIFTING HOLES IN STORM DRAIN PIPING SECTIONS BEFORE BACKFILL. THIS SHALL BE REQUIRED REGARDLESS IF PREFABRICATED LIFTING PLUGS ARE USED OR NOT. THE COMBINATION OF THE TWO (2) IS RECOMMENDED TO ENSURE THAT THE LIFTING HOLES DO NOT REMAIN OPEN ALLOWING EARTHEN MATERIAL TO ENTER THE DRAIN POSSIBLY CAUSING A SINK HOLE AT THE SURFACE.

1. THE CONTRACTOR SHALL REFERENCE THE PLUMBING PLANS FOR ANY SEWER PLUMBING BENEATH THE PROPOSED BUILDING

NECESSARY INCLUDING BYPASS PUMPING, TIE-INS AT NIGHT, OR ON WEEKENDS, ETC. 8. ALL MANHOLE AND MAIN INSTALLATIONS SHALL BE TESTED PER THE LOCAL SEWER AUTHORITY'S REQUIREMENTS. TESTING IS

1. THE CONTRACTOR SHALL BE PREPARED TO CAMERA ANY DISCOVERED UTILITY MAIN FOUND DURING CONSTRUCTION NOT SHOWN ON THE PLANS TO VERIFY IF THE MAIN SHOULD BE TIED TO THE PROPOSED SYSTEMS OR BE ABANDONED AND/OR REMOVED. 2. ALL STORM DRAIN AND SANITARY SEWER SYSTEM STRUCTURES AND PIPING SHALL REMAIN ACTIVE UNTIL PROPOSED PROJECT UTILITIES ARE INSTALLED AND CAN COME INTO SERVICE. THIS APPLIES TO AREA INLETS IN YARDS AND/OR ROOF DRAINS. ANY WATER OR SEWER DAMAGE TO PRIVATE PROPERTY DUE TO FAILURE OF THE CONTRACTOR TO COORDINATE REMOVAL OF EXISTING UTILITIES AND TIE-INS TO REQUIRED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR INCLUDING ALL CLEANUP AND ADDITIONAL

3. THE CONTRACTOR SHALL REMOVE/RESET/RAISE ALL PRIVATE UTILITY COMPANY BOXES, MANHOLE RING AND COVER, ETC. IF THESE ITEMS ARE BEING RETAINED. ANY ITEMS DAMAGED DURING THIS WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ELIMINATE DRAINAGE RUNOFF OVER THE TOP OF THE WALL.

- 1. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENTS JOIN TO EXISTING CLEANLY.
- 2. ALL COMBINATION CURB AND GUTTER SHALL BE ONE AND A HALF (1.5) FEET IN WIDTH UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. EXISTING CURB AND GUTTER MAY VARY IN WIDTH AND PROPOSED CURB AND GUTTER SHALL BE TAPERED TO JOIN TO IT OVER A MINIMUM DISTANCE OF FIVE (5) FEET TO ENSURE A SMOOTH TRANSITION
- 3. ALL TEMPORARY AND/OR PERMANENT STRIPING, MARKINGS, ETC. SHALL BE OF COLOR AND TYPE SHOWN AND SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- 4. ALL PERMANENT SIGNS AND POSTS SHALL BE PER THE MUTCD.
- 5. ALL TEMPORARY CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY CONSTRUCTION SIGN POSTS SHALL BE #3 "U" CHANNEL POSTS, ALDOT 710B. 6. ALL TRAFFIC STRIPES SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
- 7. ALL DIMENSIONS ARE TO THE BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 8. THE CONTRACTOR SHALL NOTE THE DIFFERENT PAVEMENT TYPICAL SECTIONS FOR THE PROJECT. 9. CONCRETE CONTROL JOINTS SHALL BE MEASURED FOR DEPTH. THEY MUST BE INSTALLED PROPERLY FOR CONTROL CRACKING OF
- 10. ALL TEMPORARY STRIPING DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. TEMPORARY STRIPING SHALL BE REQUIRED TO CLEARLY DELINEATE WHERE TRAFFIC BOTH PEDESTRIAN AND MOTOR VEHICLE KNOW HOW TO NAVIGATE THE WORK AREA. DURING PAVEMENT CURING TEMPORARY STRIPING SHALL BE APPLIED FOR TRAFFIC CONTROL
- 11. THE FINAL PAVEMENT FINISH IS VERY IMPORTANT FOR THE PROJECT AND THE OWNER. THE CONTRACTOR SHALL MAKE ALL PAVEMENT ARE FINISHED OUT SMOOTHLY AND CLEANLY. IRREGULARITIES, "BIRD BATHS", RANDOM CRACKING, ETC. SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.
- 1. REGARDLESS IF AN NPDES PERMIT IS REQUIRED OR NOT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION. AN EROSION CONTROL PLAN IS PROVIDED AS A MINIMUM GUIDE FOR PROVIDING STRUCTURAL BMP'S. PHASING, TEMPORARY GRASSING, AND OTHER METHODS AS PROVIDED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT, SHALL BE UTILIZED TO MINIMIZE EROSION. NO EXTRA COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR MAINTAINING EROSION CONTROL ITEMS OR ADDITIONAL EROSION CONTROL ITEMS REQUIRED TO COMPLY WITH THE NPDES PERMIT.
- 2. THE DESIGN OF THE CBMPP SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR'S QCP. IN THE EVENT THAT SEDIMENT BASINS ARE REQUIRED BY THE DESIGN. NO ADDITIONAL COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR STOCKPILING MATERIAL TO LATER FILL THE BASINS, ADDITIONAL GRADING TO FILL THE BASINS, TEMPORARY PIPING, RESEEDING AND REMULCHING, RESTORING PERMANENT DRAINAGE STRUCTURES AND GRADES TO THEIR PERMANENT REQUIREMENTS, OR ANY OTHER ITEMS OF WORK THAT ARE REQUIRED BY THE PHASING OF CONSTRUCTION OR THE CBMPP.
- 3. ANY FINES INCURRED DUE TO FAILURE TO MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR. ANY ADDITIONAL WORK AND MATERIALS REQUIRED TO COMPLY WITH ANY VIOLATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. 4. ALL TEMPORARY RIPRAP USED FOR EROSION CONTROL PURPOSES SHALL BE INCLUDED IN THE PRICE OF EROSION CONTROL.
- TEMPORARY RIPRAP BERMS SHALL BE SPREAD OUT IN AREAS WHERE PERMANENT RIPRAP IS REQUIRED AND SHALL BE SPREAD IN A MANNER TO NOT IMPEDE FLOW OF STORM DRAINS AFTER THE SITE IMPROVEMENTS ARE COMPLETE AND THE PROJECT IS STABILIZED. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR TEMPORARY RIPRAP OR SPREADING IT UPON COMPLETION OF THE SITE IMPROVEMENTS. ALL TEMPORARY RIPRAP THAT IS SPREAD FOR USE AS PERMANENT RIPRAP SHALL BE PLACED ON THE STONE BEDDING AND FILTER FABRIC AS SHOWN IN THE DETAILS. COSTS FOR STONE AND FILTER FABRIC PLACED UNDERNEATH ALL TEMPORARY RIPRAP THAT IS SPREAD IN PERMANENT LOCATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EROSION CONTROL MANAGEMENT AND MAINTENANCE, OR IF THERE ARE NO UNIT PRICES, THE COST SHALL BE INCIDENTAL TO THE PROJECT.
- 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP CLEAN ALL EROSION & SEDIMENT CONTROL STRUCTURES UNTIL THE NPDES PERMIT IS ACCEPTED AS COMPLETE BY THE OCP & ADEM, AND IS TERMINATED BY THE CONTRACTOR.
- 6. SILT FENCES SHALL HAVE SEDIMENT DEPOSITS REMOVED IF THEY REACH A DEPTH OF FIFTEEN INCHES (15") OR 1/2 THE HEIGHT OF THE FENCE. SEDIMENT REMOVED FROM THE SILT FENCE SHALL BE PLACED ONSITE AND STABILIZED.
- 7. THE PROJECT AREA SHALL REMAIN CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO KEEP THE PROJECT AREA CLEAN, INCLUDING MOTORIZED STREET SWEEPERS, WATER AND VACUUM TRUCKS, HAND SWEEPING AND SHOVELING, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS.
- 8. THE CONTRACTOR SHALL IDENTIFY WORK AREA ENTRANCE/EXIT LOCATIONS FOR EQUIPMENT AND INSTALL TEMPORARY GRAVEL DRIVES TO REDUCE TRACKING ONTO PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL STREETS CLEAN OF ANY SEDIMENT FROM THE CONSTRUCTION SITE ON A DAILY BASIS, NO EXCEPTIONS. 9. ALL DISTURBED AREAS, INCLUDING THE EARTHEN STOCKPILES, SHALL BE MULCHED UPON COMPLETION OF GRADING OPERATIONS.
- ADEM REGULATIONS REQUIRE ALL DISTURBED AREAS NOT UNDERGOING ACTIVE DISTURBANCE OR ACTIVE CONSTRUCTION FOR LONGER THAN THIRTEEN (13) DAYS TO BE PROVIDED WITH TEMPORARY GROUND COVER. 10. THE CONTRACTOR SHALL INSTALL WATTLES, SANDBAGS, AND/OR SILT FENCE TRENCHED THROUGH PAVEMENT AFTER SAW-CUTTING
- THE ASPHALT TO AVOID RUNOFF INTO OTHER ROADWAYS, DRIVES, AND AREAS PARALLEL AND ADJACENT TO THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS. 11. WATTLES FOR SEDIMENT CONTROL SHALL HAVE A MINIMUM DIAMETER OF 12".
- 12. THE CONTRACTOR SHALL INSTALL STONE AND/OR STABILIZE ENTRANCE/EXIT, SIDEWALKS, ROADWAY/DRIVES, ETC. AS NECESSARY. ALL STONES FOR CONSTRUCTION ENTRANCE/EXIT, SIDEWALKS, ROADWAY/DRIVES, ETC. ARE CONSIDERED INCIDENTAL REGARDLESS THE NUMBER OF TIMES FRESH STONE IS REQUIRED FOR EROSION CONTROL MEASURES. AT THE END OF THE PROJECT, ALL STONE SHALL BE REMOVED AND NOT WASTED ON THE PROJECT SITE.
- 13. WHEN INSTALLING SILT FENCE OR OTHER BMP'S, THE CONTRACTOR SHALL USE THE LOCATIONS PROVIDED ON THE DRAWINGS OR THE CBMPP. WASTEFUL AND/OR POORLY PLANNED INSTALLATIONS SHALL NOT RECEIVE ADDITIONAL PAY FOR REINSTALLATION AFTER MOVING TO ANOTHER PHASE OF THE WORK.
- 14. ADEM CLOSELY MONITORS DEVELOPMENTS FOR EROSION & SEDIMENT CONTROL VIOLATIONS. VIOLATIONS CAN LEAD TO THEM ISSUING A STOP WORK ORDER. THE PROJECT SHALL FALL UNDER THE SAME GUIDELINES. ANY FINES AND LEGAL FEES ASSOCIATED WITH THE CONTRACTOR'S FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR INCLUDING ANY ADDITIONAL REQUIREMENTS PLACED ON THE PROJECT BY THE FINING AGENCY. THERE SHALL BE NO CLAIMS CONSIDERED OF LOST CONTRACT TIME, MONEY, ETC. DURING THE STOP WORK PERIOD. THIS IS A SITUATION TOTALLY IN THE CONTROL OF THE CONTRACTOR AND HE WILL MEET HIS RESPONSIBILITIES TO MAINTAIN A STABILIZED CONSTRUCTION SITE.
- 15. ALL INLETS/STRUCTURES SHALL BE COVERED BY DOME INLET PROTECTORS DURING CONSTRUCTION UNLESS OTHERWISE NOTED TO AVOID SEDIMENT RUNOFF. THESE UNITS SHALL BE KEPT CLEAN DURING CONSTRUCTION. IF THE INLET/STRUCTURE IS TOO LARGE, THEN SEDIMENT LOGS OR SILT FENCE SHALL BE USED TO PROTECT THE INLET.
- 16. ALL MEANS NECESSARY SHALL BE USED TO ESTABLISH TEMPORARY EROSION CONTROL INCLUDING EROSION CONTROL NETTING, SODDING, REPEATED SEEDING AND MULCHING, ETC. 17. A BEST MANAGEMENT PLAN SHALL AT A MINIMUM RETURN ALL EXPOSED OR DISTURBED AREAS TO ORIGINAL OR BETTER CONDITION
- WITH AT LEAST A GOOD STAND OF GRASS AND/OR SOD. EROSION CONTROL MEASURES INCLUDING CONSTRUCTION EXIT PADS, SHOWN HEREIN TO PREVENT EROSION AND SEDIMENT RUNOFF ARE A MINIMUM AND SHALL NOT BE INTERPRETED AS BEING ALL THAT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL BE MINDFUL DURING ALL PHASES OF CONSTRUCTION AND INSTALL AND UTILIZE ANY AND ALL ADDITIONAL ITEMS NECESSARY TO CONTROL ALL EROSION AND SEDIMENTATION ON THE PROJECT AT ALL TIMES AS REQUIRED BY ADEM AND THE ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, MOST RECENT EDITION.
- 18. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO DIRECT ADDITIONAL ITEMS OR REVISE IN-FIELD PLACEMENT OF EROSION CONTROL ITEMS AS DEEMED NECESSARY DURING ALL PHASES OF THE PROJECT.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT ALL SANITARY OR STORM SEWER MAINS AND MANHOLES ON A CONTINUAL BASIS IF CONSTRUCTION DEBRIS ENTERS SUCH MAINS. IN NO EVENT SHALL CONTRACTOR DISPOSE OF ANY DEBRIS OR MATERIALS IN SEWERS. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SUCH DEBRIS OR MATERIAL TO SATISFACTION OF OWNER'S REPRESENTATIVE.
- 20. CONTRACTOR SHALL BE OBSERVANT OF FORECASTED RAIN EVENTS AND PROMPTLY REPAIR, MAINTAIN, INSTALL NECESSARY EROSION CONTROL ITEMS PRIOR TO SUCH RAIN EVENTS. CONTRACTOR SHALL PROMPTLY MEDIATE, CLEAN UP, REMOVE ANY EROSION OR SEDIMENTATION FROM ALL EROSION CONTROL ITEMS, STRUCTURES, TRAPS, BASINS, ETC. AND REPAIR, MAINTAIN, RE-INSTALL, SUPPLEMENT SUCH IMMEDIATELY FOLLOWING EACH RAIN EVENT OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- 21. ALL CONCRETE WASHOUT WATER SHALL BE COLLECTED IN A LEAK PROOF CONTAINER SO THAT IT DOES NOT REACH THE SOIL SURFACE AND THEN MIGRATE TO SURFACE WATERS OR INTO GROUNDWATER. ALL OF THE COLLECTED CONCRETE WASHOUT WATER AND SOLIDS SHALL BE RECYCLED.

EROSION CONTROL NOTES:



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THE CONCRETE PAVEMENT. IMPROPERLY INSTALLED CONCRETE SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.

No. 24443 PROFESSIONAL

SHEET TITLE: CIVIL NOTES

PROJ. MGR.: CAH DRAWN: I RH DATE: JUNE 28, 2024 REVISIONS

JOB NO. 23-125 SHEET NO:





ADDITIONS ANU HOMER 'HITMI CITY 771 WI ABAM CENSA ≈★/~ No. 24443 PROFESSIONAL

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PROJ. MGR.: CAH LBH DATE: JUNE 28, 2024 JOB NO. 23-125 SHEET NO: C1.0

1"







SCALE: 1"=30'

4 OF 22 0 1" 2"





6 OF 22 0 1" 2"

SCALE: 1"=30'





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NOTES:

- 1. SEE SHEET CO.1 FOR ALL APPLICABLE NOTES.
- 2. SEE SHEET C3.1 FOR STORM DRAIN INFORMATION.







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SCALE: 1"=30'

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NOTES:

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INFORMATION.

1. SEE SHEET CO.1 FOR ALL APPLICABLE

2. SEE SHEET C3.0 FOR DETAILED GRADING

3. ALL ROOF DRAINS SHALL BE HDPE PIPE INSTALLED @ 1% MIN SLOPE.







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NOTES:

1. SEE SHEET CO.1 FOR ALL APPLICABLE NOTES.

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ADDITIONS AND HOMER 1771 WHITMIRE ABAI No. 24443 PROFESSIONA

SHEET TITLE: GRADING & DRAINAGE PLAN - ALTERNATE

PROJ. MGR.: CAH LBH DRAWN: DATE: JUNE 28, 2024 REVISIONS

JOB NO. 23-125 SHEET NO:

C3.2 9 OF 22 1"





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JOB NO. 23-125

C4.3

13 OF 22

SHEET NO:



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C4.4

14 OF 22 1"



SCALE: 1"=30'

JOB NO. 23-125

C4.5

15 OF 22

SHEET NO:











SCALE: 1"=50' HORIZONTAL 1"=10' VERTICAL	
EXISTING GRADE PROPOSED GRADE EX. SANITARY SEWER	
SANITARY SEWER	

ALL AREAS TO RECEIVE FILL SHALL BE FILLED AND COMPACTED TO AT LEAST FIVE FEET (5') ABOVE THE TOP OF THE PIPE PRIOR TO THE INSTALLATION OF THE SANITARY SEWER LINE OR ANY STRUCTURE. IN AREAS THAT HAVE BEEN FILLED AND THE PROPOSED SEWER WILL BE WITHIN THE FILL, THE FILL SHALL BE COMPACTED TO AT LEAST 98% OF STANDARD PROCTOR DENSITY AND TESTED BY THE PROJECT GEOTECHNICAL ENGINEER BEFORE THE SEWER CAN BE CONSTRUCTED IN THE FILL.

PROJECT CONTACTS OWNER: LEEDS CITY SCHOOLS 517 HURST AVE LEEDS, AL 35094 PHONE: (205) 699-5437 CONTACT: JOHN MOORE ENGINEER: TTL, INC. 10 INVERNESS CENTER PKWY, SUITE 350 HOOVER, AL 35242 PHONE: (205) 539-0384 CONTACT: CHRIS HARKINS, PE SURVEYOR: ARRINGTON ENGINEERING & LAND SURVEYING INC. 2032 VALLEYDALE RD BIRMINGHAM, AL 35244 PHONE: (205) 985-9315 CONTACT: DAVE ARRINGTON

SURVEY CONTROL THE BASIS OF BEARINGS AND OR COORDINATES SHOWN ON THIS SURVEY ARE BASED ON ALABAMA STATE PLANE WEST ZONE, GRID NORTH, NAD 83 (2011) AND VERTICAL DATUM IS NAVD 88 (GEOID 12B) ELEVATION AND POSITION WAS OBTAINED FROM R.T.K OBSERVATION USING THE ALDOT CORS NETWORK AS CONTROL.

PARCEL ID: 25 00 16 4 012 001.000 SITE ADDRESS: 1771 WHITMIRE ST., LEEDS, AL 35094

> SECTION INFORMATION THE NW $\frac{1}{4}$ OF THE SW $\frac{1}{4}$, SEC. 16, TOWNSHIP 17 SOUTH, RANGE 1 EAST, JEFFERSON COUNTY, ALABAMA

- JEFFERSON COUNTY STANDARD NOTES FOR 8 INCH AND LARGER SANITARY SEWERS:
- DEPARTMENT, AND APPLICABLE O.S.H.A. REQULATIONS, AS APPLICABLE.
- 3. DUCTILE IRON PIPE SHALL BE CLASS 350 OR BETTER.

- MANUFACTURER. EACH COUPLING SHALL BEAR THE MANUFACTURER'S NAME AND REQUIRED MARKINGS.
- HEIGHT SHALL NOT EXCEED 6".
- MASTER PLUMBER AND HAVE A SEWER CONNECTION PERMIT FOR EACH LOT.

- CONSTRUCTION LIMITS OF THIS PROJECT.
- 13. ALL EMBANKMENT FILL AREAS SHALL BE FILLED AND COMPACTED PRIOR TO EXCAVATION OF SEWER LINE TRENCHES.



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SHEET 1 OF 1

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF JEFFERSON COUNTY, THE LOCAL MUNICIPALITY AND/OR THE STATE HIGHWAY

2. THE CONTRACTOR SHALL NOTIFY THE JEFFERSON COUNTY ENVIRONMENTAL SERVICES DEPARTMENT AT 205/325-5127 AT LEAST 24 HOURS PRIOR TO BEGINNING CONSTRUCTION. THERE SHALL BE NO CHANGES IN DRAWINGS WITHOUT WRITTEN APPROVAL BY THE JEFFERSON COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.

4. PVC PIPE SHALL BE AWWA C900, CAST IRON (CI) STANDARD DIMENSIONS. DIMENSION RATIO (DR) 18. PRESSURE CLASS (PC) 150 PSI OR BETTER.

5. IN EARTH TRENCHES, 4" OF CRUSHED STONE SHALL BE PLACED UNDER SEWER LINES OF 12" IN DIAMETER OR SMALLER AND 6" OF CRUSHED STONE SHALL BE PLACED UNDER SEWER LINES LARGER THAN 12" IN DIAMETER. IN ROCK TRENCHES, 6" OF CRUSHED STONE SHALL BE PLACED UNDER ALL SEWERS. THE DITCH SHALL BE BACKFILLED WITH CRUSHED STONE TO A DEPTH OF 12" ABOVE THE TOP OF THE PIPE. WHEN CROSSING EXISTING ROADS AND STREETS, THE TOTAL BACKFILL SHALL BE CRUSHED STONE AND PROPERLY CHOKED.

AT THE DIRECTION OF THE ESD INSPECTOR, A CONNECTION OF SANITARY SEWER PIPES (8" THROUGH 16") OF DISSIMILAR SIZES OR FOR REPAIR OF SANITARY SEWER PIPES OF SIMILAR MATERIALS MAY BE MADE BY MEANS OF AN APPROVED MECHANICAL SEAL TYPE ADJUSTABLE COUPLING. COUPLINGS WITH ANY REQUIRED ADAPTING BUSHINGS SHALL BE MANUFACTURED OF AN APPROVED PREFORMED ELASTOMERIC MATERIAL SPECIFICALLY FOR DIMENSIONS OF THE PIPE MATERIALS TO BE CONNECTED. COUPLINGS OF THE MECHANICAL SEAL TYPE SHALL HAVE NUT AND BOLT TIGHTENING CLAMPS OR DEVICES MADE OF 316 STAINLESS STEEL, WITH AN ADJUSTABLE STAINLESS STEEL SHEAR RING, AND STAINLESS STEEL HARDWARE. A CONCRETE COLLAR AS SHOWN ON APPENDIX STANDARD DRAWING SD2060 IS REQUIRED. THE ADJUSTABLE COUPLING SHALL BE INSTALLED AS RECOMMENDED AND SPECIFIED BY THE

MANHOLES SHALL MEET ASTM SPECIFICATIONS C-478. JOINTS BETWEEN THE MANHOLES SECTIONS SHALL BE OFFSET TONGUE AN GROOVE "PUSH ON" TYPE, SUPPLIED WITH TYLOX SUPPLIED WITH SEAL PRE-LUBRICATED GASKET AS MANUFACTURED BY HAMILTON KENT MEETING THE REQUIREMENTS OF ASTM C443. EACH JOINT SHALL ALSO BE SUPPLIED WITH CONSEAL CS-231 WATERSTOP SEALANT AS MANUFACTURED BY CONCRETE SEALANTS, IN WIDTHS AS RECOMMENDED BY THE MANUFACTURER. MANHOLES SHALL HAVE A MINIMUM DIAMETER OF 48" AND A MINIMUM THICKNESS OF 5". ALL MANHOLE CONES SHALL BE OF THE CONCENTRIC TYPE. MANHOLES MAY BE FINISHED TO STREET GRADE WITH BRICK AND MORTAR. THIS ADJUSTMENT

8. STUBOUTS FOR SANITARY SEWER SERVICE LINES SHALL END ON OR NEAR THE PROPERTY LINE UNLESS OTHERWISE NOTED. ON "DOWNHILL" SIDE LOTS INSTALL LATERALS ON A MINIMUM 1% GRADE. ON "UPHILL" SIDE LOTS, INSTALL SERVICE LINES TO GRADE THAT WILL TERMINATE A MAXIMUM DEPTH OF 10 FEET. THE FIRST JOINT OUT OF A MANHOLE, FOR BUILDING OR HOUSE SERVICE, SHALL BE DUCTILE IRON PIPE CLASS 350 OR BETTER (MINIMUM 8 FEET). ANY BUILDING SERVICE LINE SET OUTSIDE OF EASEMENT OR R.O.W. MUST BE INSTALLED BY A

IF THE CONTRACTOR IS INSTALLING SERVICE LINES AT THE SAME TIME AS MAIN LINE, THE SERVICE LINE SHALL BE INSTALLED IN ACCORDANCE WITH JEFFERSON COUNTY STANDARDS FOR CONSTRUCTION OF SERVICE LINES AND CONNECTIONS, AND INSPECTED/TESTED BY COUNTY INSPECTOR BEFORE IT IS BACKFILLED.

10. ALL SERVICE LINE STUBOUTS INSTALLED IN ROAD ROW OR UNDER ASPHALT SHALL BE PER STANDARD SPECIFICATIONS FOR SANITARY SEWER SERVICE LINES AND CONNECTIONS SECTION

11. CONSTRUCTION SIGNS FOR WORK WITHIN AND ADJACENT TO PUBLIC ROADS, HIGHWAYS, AND ALLEYS SHALL BE IN ACCORDANCE WITH ALDOT STANDARDS.

12. CONTRACTOR WILL BE RESPONSIBLE FOR THE CONTINUOUS AND PROPER OPERATION OF ALL EXISTING UTILITIES LOCATED ON OR ADJACENT TO THE PROJECT SITE AND WITHIN THE

14. CONTRACTOR WILL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS AND FOR ACQUISITION OF ALL PERMITS DURING CONSTRUCTION TO INSURE THAT DAMAGE DOES NOT OCCUR TO ADJACENT PROPERTIES, PUBLIC ROADS AND/OR DITCHES (CREEKS, STREAMS).

15. UPON COMPLETION OF ALL OR ANY PART OF A SANITARY SEWER LINE, THE CONTRACTOR WILL BE REQUIRED TO TEST SAID SEWER FOR ACCEPTABILITY. GRAVITY SEWERS WILL BE PRESSURE TESTED WITH AIR. FORCE MAIN SEWERS WILL BE PRESSURE TESTED WITH WATER. MANHOLES WILL BE VACUUM TESTED. ALL TESTS WILL BE CONDUCTED IN THE PRESENCE OF THE COUNTY SEWER CONSTRUCTION INSPECTOR IN ACCORDANCE WITH SECTION 5.00 STANDARDS FOR COMMERCIAL AND RESIDENTIAL CONSTRUCTION OF SANITARY SEWER SYSTEMS. GRAVITY SANITARY SEWERS WILL BE TELEVISION INSPECTED FOLLOWING AIR TESTING WITH THE FINAL VIDEO TAPE AND LOG FURNISHED TO THE COUNTY FOR RECORD INFORMATION.









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S S S

- REQ'D: UNCLASSIFIED/BORROW EXCAVATION (COMPACTED TO 98% ASTM D 698)



SHEET TITLE: **CIVIL DETAILS**

PROJ. MGR.: CAH LBH DRAWN: DATE: JUNE 28, 2024 REVISIONS



































1"










(2) (A3.3)	3.1
	PREFINISHED STANDING SEAM METAL ROOFING SYSTEM METAL TRUSS SYSTEM – SEE STRUCTURAL
	WINDOW AS SCHEDULED BRICK SOLDIER COURSE RIGID INSULATION DAMPROOFING BRICK HEADER COURSE REINFORCED CONCRETE PAVING SYSTEM – SEE CIVIL LOWER LEVEL FINISH FLOOR





















8 STAIR DETAIL SCALE: $3^{"} = 1^{'}-0^{"}$

—1–1/2"Ø PAINTED METAL POST @ 60" O.C. MAX. 1/2"x 1/2" PAINTED
METAL PICKETS w/
MAXIMUM SPACING OF
3-7/8" (WELD, GRIND
SMOOTH AND PAINTED)

PER CURRENT CODES AND ADA REQUIREMENTS

METÁL RAILS

PAN SYSTEM, TYP.

—1—1/2"Ø PAINTED METAL RAILS





7 STAIR DETAIL SCALE: $1^{"} = 1^{'}-0^{"}$



LITE BROOM FINISH TREADS

-ABRASIVE METAL NOSING

NOTE: ALL RISERS SHALL BE EQUAL

> "MIN. THICK CON SLAB REINFORCED 6X6 W2.9 X 2.9 W











A6.1

23 OF 39







2 REFLECTED CEILING PLAN @ UPPER LEVEL SCALE: 1/8" = 1'-0"









SHEET TITLE: **REFLECTED CEILING PLAN -**LOWER AND UPPER LEVEL, LEGENDS AND DETAILS





4 DETAIL © GYPSUM SOFFIT WITH LAY-IN ON BOTH SIDES SCALE: 1" = 1'-0"





COORDINATE LIGHTING LAYOUTS WITH ELECTRICAL DRAWINGS. CONTACT ARCHITECT WITH ANY DISCREPANCIES







SHEET TITLE: ENLARGED REFLECTED CEILING PLAN - LOWER AND UPPER LEVEL

PROJ. MGR.: MSC DRAWN: K. JOINER hdr DATE: JUNE 28, 2024 REVISIONS

јов NO. 23-125
SHEET NO:
A7.2
27 OF 39
0 1" 2'



















ADIUM o **N** ₹ LEEDS) ALTERATI **SMIL** : STREET, L :HOOLS ADDITIONS AND HOMER 1771 WHITMIRE (LEEDS CITY SCH TE OF ALAP No. 3365 RICK N. LATHAN SHEET TITLE: ENLARGED FINISH FLOOR PLANS, LEGENDS, AND DETAILS PROJ. MGR.: MSC DRAWN: K. JOINER



DATE: JUNE 28, 2024

REVISIONS

LATHAN ARCHITECTS

	FINISH SCHEDULE											
ROOM NO.	ROOM NAME	FLOOR	BASE	MILLV FACE	VORK TOP	NORTH	WALL SOUTH	.S EAST	WEST	DOOR FRAME	CEILING/SOFFIT PAINT	NOTES
LOWER	RLEVEL											
100	CORRIDOR	BF-1/2/3	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
100A	TROPHY	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
100B	TROPHY	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
101	CORRIDOR	BF-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
102	TRAINING	RF-1	RB-2	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
103	TOILET	ERF-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
104	NUTRITION	RF-1	RB-2	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
105	SOCCER	RF-1/RF-2	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
106	EQUIPMENT	BF-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
107	BASEBALL	RF-1/RF-1	RB-3	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
108	LOCKER ROOM	RF-1/RF-2	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
109	GIRLS	ERF-1/PFT-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT AT ALL WET WALLS
110	BOYS	ERF-1/PFT-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT AT ALL WET WALLS
111	VARSITY	RF-1/RF-2	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
112	VESTIBULE	CPT-2	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
113	RISER	BF-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
114	CONCESSIONS	ERF-1	ERB-1	PL-1	SS-2	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
115	MEN	ERF-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
116	WOMEN	ERF-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
117	ELECTRICAL	BF-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
118	STORAGE	BF-1	RB-1	-	-	PNI-1	PNI-1	PNI-1	PNI-1	PNT-2		
119	MDF	BF-1	RB-1	-	-	PNI-1	PNI-1	PNI-1	PNI-1	PNT-2		
120	JANITOR	BF-1	RB-1	PL-1	PL-1	PNI-1	PNI-1	PNI-1	PNI-1	PNT-2		
121	STORAGE	BF-1	RB-1	-	-		PNT-1	PNT-1	PNT-1	PNT-2		
A	STAIR		RB-1	-	-							
				-	-			DNIT 1		PINT 2		
				1-	-	1 111-1	1 111-1	1 111-1		1111-2		
200	MEETING	VT-1/I VT-2	RB-1	1.	_	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
201	MEDIA ROOM	LVT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
202	CORRIDOR	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
203	HEAD COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
203A	CLOSET	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
203B	TOILET	ERF-1	ERB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT AT ALL WET WALLS
204	TOILET	ERF-1	ERB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	EPOXY PAINT AT ALL WET WALLS
205	JANITOR	ERF-1	ERB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
206	LOCKER ROOM	RF-1	RB-2	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
207	TOILET	ERF-1/PFT-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
208	TOILET	ERF-1/PFT-1	ERB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
209	OFFICE	CPT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
210	BREAK	RF-1	RB-1	PL-1	SS-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		EPOXY PAINT AT ALL WET WALLS
211	PRESS BOX	LVT-1	RB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
212	CORRIDOR	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	PNT-3	
213	COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
214	COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
215	COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
216	COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
217	COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
218	COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
219	COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
220	COACH	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
Α	STAIR	LVT-1/RF-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
В	STAIR	LVT-1/RF-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		
E1	ELEVATOR	LVT-1	RB-1	-	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2		

BASE	(RUBBER/EF	POXY)		RUBB	ER FLOORIN	IG/RUBBER STAIR TRE	AD
ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION	ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
RB-1	MANNINGTON	4" BURKE BASE COLOR:	SEE FINISH SCHEDULE	RF-1	NORA BY INTERFACE	COLLECTION: NORAMENT 992 GRANO COLOR: 5302 ANGELICA ROOT	SEE FINISH FLOOR PLAN
RB-2	MANNINGTON	4" BURKE BASE COLOR:	SEE FINISH SCHEDULE			SIZE: THICKNESS: 9.0 MM	
ERB-1	MATCH TO ERF-1	MATCH TO ERF-1	SEE FINISH SCHEDULE	RF-2	NORA BY INTERFACE	COLLECTION: NORAMENT 992 GRANO COLOR: 5304 BLACK PEPPER SIZE: THICKNESS: 9.0 MM	SEE FINISH FLOOR PLAN
LUXU	RY VINYL TILI	E					
ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION	RST-1	INTERFACE	COLLECTION: STAIR TREAD NORAMENT 926 ARGO COLOR: 5175 UNITY	SEE FINISH FLOOR PLAN
LVT-1	MANNINGTON	COLLECTION: SPACIA-STONE COLOR: GALLERY CONCRETE	SEE FINISH FLOOR PLAN	PAINT	-		
		SIZE: 12X18 INSTALLATION: ASHLAR		ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION
LVT-2	MANNINGTON	COLLECTION: SPACIA-STONE	SEE FINISH FLOOR PLAN	PNT-1	SHERWIN WILLIAMS	COLOR: AGREEABLE GRAY SW 7029	GENERAL WALLS
		COLOR: BLACK MARBLE SIZE: 12X18 INSTALLATION: ASHLAR		PNT-2	SHERWIN WILLIAMS	COLOR: DORIAN GRAY SW 7017	GENERAL TRIM
I VT_3		COLLECTION: COLOR ANCHOR	WATERJET LOGO	PNT-3	Sherwin Williams	COLOR: HIGH REFLECTIVE WHITE SW 7757	GENERAL CEILING AND SOFFIT
LV1-3	MANNINGTON	– GROOVE COLOR: MONSTERA C156		PLAS	TIC LAMINAT	E	
		SIZE: 18X18 INSTALLATION: WATERJET		ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION
		LOGO		PL-1	WILSONART	COLOR: PREMIUM LAMINATE WITH MATCHING EDGEBANDING	SEE FINISH SCHEDULE
LVI-4	MANNINGTON	COLLECTION: COLOR ANCHOR – GROOVE	WATERJET LOGO	SOLIE) SURFACE		
		SIZE: 18X18		ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION
		LOGO		SS-1	BPI DURASEIN	COLOR:	SEE FINISH SCHEDULE
CARPI	ET			SS-2		COLOR: (STAINLESS STEEL)	SEE FINISH SCHEDULE
ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION		ANITE FLOOF	RING	
CPT-1	MILLIKEN	COLLECTION: REMIX REMASTERED-BACKBEAT COLOR: VINYL W/ JUNGLE	TROPHY 100A AND TROPHY 100B	ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
				BF-1	BOMANITE	COLOR: (GRAY)	SEE FINISH FLOOR PLAN
		SIZE: 19.7" X 19.7"		BF-2	BOMANITE	COLOR: (GREEN)	SEE FINISH FLOOR PLAN
2	MANNINGTON	COLLECTION: LIAISON	VESTIBULE 112	BF-3	BOMANITE	COLOR: (WHITE)	SEE FINISH FLOOR PLAN
661-2	MANNINGTON	ENTRYWAY-RECOARSE II COLOR: BYPASS BLACK 1518		EPOX	Y		
		INSTALLATION: QUARTER TURN	1	ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
CERA	MIC WALL TI	_E	1	ERF-1	TORGINOL	COLLECTION: COLOR FLAKES COLOR: CUSTOM COLOR - 4	SEE FINISH FLOOR PLAN
ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION	_		COLOR MAX SIZE: 1/4" SCALE	
CWT-1	DALTILE	COLLECTION: COLOR WHEEL – LINEAR COLOR: ARCTIC WHITE 0190 SIZE: 4X16	ALL SHOWER WALLS CORRIDOR 100 (BEHIND EWC)	PORC	L CELAIN FLOC	DR TILE	
CWT-2	DALTILE	COLLECTION: COLOR WHEEL -	CORRIDOR 100 (BEHIND EWC)	ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
		COLOR: EMERALD 0115 SIZE: 4X16		PFT-1	DALTILE	COLLECTION: KEYSTONES COLOR: SUEDE GRAY SIZE: 2X2	ALL SHOWER FLOORS
CWT-2	DALTILE	COLLECTION: COLOR WHEEL – LINEAR COLOR: BLACK K111 SIZE: 4X16	CORRIDOR 100 (BEHIND EWC)				
FINISH	ABBREVIA1	TION LEGEND		FINISH	H NOTES		
AP ACOUSTIC PANEL ESD STATIC CONTROL TILE SS SOLID SURFACE BEC BROOM FINISHED GYP GYPSIIM BOARD ST STAIN					S TO BE PAINTED PI	NT -1 UNLESS NOTED OTHERWISE.	
BFCBROOM FINISHED CONCRETEGYPGYPSUM BOARD LVTCCCOATED CONCRETELVTLUXURY VINYL TILECCCOATED CONCRETEPCPOLISHED CONCRETECMCROWN MOLDINGPLPLASTIC LAMINATECPTCARPETPNTPAINTCRCHAIR RAILPFTPORCELAIN TILEDPDIGITAL ACOUSTICPTBPORCELAIN TILE BASEPANELPATPORCELAIN WALL TILE		ST STAIN TP TACKABLE ACOUSTIC PANEL VCT VINYL COMP. TILE WB WOOD BASE WC WALLCOVERING WF WOOD FLOORING WP WOOD PANELING WP WOOD VENEED	ALL WALL EPOXY B/	LS AND CEILINGS LO ASED PAINT	CATED IN WET AREAS SHALL HAVE		
CPT CARPET PNT PAINT CR CHAIR RAIL PFT PORCELAIN TILE DP DIGITAL ACOUSTIC PTB PORCELAIN TILE BASE PANEL PWT PORCELAIN WALL TILE PWT PORCELAIN WALL TILE CWT CERAMIC WALL TILE PWF PRE-ENG. WOOD CTB CERAMIC TILE BASE RB RUBBER BASE			WB WOOD BASE WC WALLCOVERING WF WOOD FLOORING WP WOOD PANELING WV WOOD VENEER				





INTI	ERIOR SIGNAGE LEGEND
Α	SIGN WITH MESSAGE STRIP (OFFICES/CLASSROOM/INSTRUCTIONAL AREA)
В	ROOM NUMBER AND NAME (STORAGE, ELECTRICAL, ETC)
С	RESTROOM SIGNAGE WITH PICTOGRAM/BRAILLE
D	ELEVATOR SIGNAGE WITH PICTOGRAM/BRAILLE
Ε	STAIR SIGNAGE WITH PICTOGRAM/BRAILLE
F	AREA OF REFUGE SIGN
G	FRAMED CLEAR VIEW SIGNAGE (8.5X11)
Н	TACTILE EXIT SIGN TO EXTERIOR (EXIT)
J	OCCUPANT LOAD SIGN (ASSEMBLY SPACES)



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ADDITIONS AND HOMER 1771 WHITMIRE LEEDS CITY SCH

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SHEET TITLE: ROOM SIGNAGE PLAN -LOWER LEVEL

PROJ. MGR.: MSC DRAWN: K. JOINER DATE: JUNE 28, 2024 REVISIONS

JOB NO. 23-125
SHEET NO:
A9.1
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INT	ERIOR SIGNAGE LEGEND
Α	SIGN WITH MESSAGE STRIP (OFFICES/CLASSROOM/INSTRUCTIONAL AREA)
В	ROOM NUMBER AND NAME (STORAGE, ELECTRICAL, ETC)
С	RESTROOM SIGNAGE WITH PICTOGRAM/BRAILLE
D	ELEVATOR SIGNAGE WITH PICTOGRAM/BRAILLE
E	STAIR SIGNAGE WITH PICTOGRAM/BRAILLE
F	AREA OF REFUGE SIGN
G	FRAMED CLEAR VIEW SIGNAGE (8.5X11)
Н	TACTILE EXIT SIGN TO EXTERIOR (EXIT)
J	OCCUPANT LOAD SIGN (ASSEMBLY SPACES)



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ADDITIONS AND ALTERATIC HOMER SMILE 1771 WHITMIRE STREET, LE LEEDS CITY SCHOOLS

LEED





SHEET TITLE: ROOM SIGNAGE PLAN -UPPER LEVEL

PROJ. MGR.: MSC DRAWN: K. JOINER DATE: JUNE 28, 2024 REVISIONS

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ROOF DETAIL

MARKER

PV PIPE VENT PP PITCH POCKET

RV ROOF VENT

RTU ROOF TOP UNIT

SHEET NUMBER

GEND	
DIRECTION OF DOWNWARD SLOPE NARKER RISE:RUN ROOF SLOPE MARKER	SHEET NO:
EF EXHAUST FAN DS DOWNSPOUT G GUTTER GEJ GUTTER EXPANSION JOINT	37 0 •

LATHAN ARCHITECTS

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SHEET TITLE: EXISTING GYM ROOF PLAN

PROJ. MGR.: MSC DRAWN: C.L. BRYANT DATE: JUNE 28, 2024 REVISIONS









DEMOLITION PHOTO



B DEMOLITION PHOTO

GENERAL NOTES

A

PROVIDE SLOPE FOR POSITIVE
DRAINAGE IN AREAS WITH FLOOR DRAINAGE SYSTEM.EXTEND & KEY RATED WALLS TO BOTTOM OF RATED ASSEMBLY
ABOVE -SEE LIFE SAFETY DRAWINGS FOR RATED WALL
LOCATIONS. EXTEND ALL NON-RATED TO BOTTOM OF
TRUSS SYSTEM.COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE
CONCRETE EQUIPMENT PAD AS REQUIRED.SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS.
PROVIDE DOWNSPOUT SPLASHBLOCKSSEE CIVIL DRAWINGS FOR SIDEWALKSPLAN DIMENSIONS ARE TYPICALLY SHOWN TO FACE OF CMU
UNLESS NOTED OTHERWISE.SLOPE ALL SIDEWALKS AWAY FROM BUILDING AND
BUILDING ENTRIES 1/4:12, TYPICAL

WA	LL TYPE LE	GEND
	METAL STUD 5/8" (WALL 5/8" f	GYPSYM BOARD EACH SIDE OF 3 METAL STUDS AT 16"
SY	MBOLS LEGE	IND
A200 FE	ROOM NUMBER SURFACE MOUNT FIRE EXTINGUISHER	DOOR TYPE RATING A HARDWARE SYMBOL
F.D. MB	FLOOR DRAIN MARKER BOARD	A5.1 SHEET NUMBER
45.	ELEV. MARKER	NEW DOOR AND SWING

LATHAN ARCHITECTS







SHEET TITLE: PARTIAL EXISTING GYM BUILDING FLOOR PLAN



JOB NO. 23-125 SHEET NO: A10.6 39 OF 39

1.0 DESIGN CRITERIA

1.1 CODES AND SPECIFICATIONS:

- A. GENERAL BUILDING CODE: INTERNATIONAL BUILDING CODE, 2021 EDITION
- B. CONCRETE: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19)
- C. STRUCTURAL STEEL: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (ANSI/AISC 360-16)
- D STEEL DECK STEEL DECK INSTITUTE DESIGN MANUALS FOR COMPOSITE DECKS, NON-COMPOSITE DECKS, AND ROOF DECKS, LATEST EDITIONS
- F MASONRY SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602-16)

BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16)

NATIONAL CONCRETE MASONRY ASSOCIATION'S STANDARD PRACTICES AND "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY", LATEST EDITION

F TIMBER NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST AND PAPER ASSOCIATION (NDS 2018 & SDPWS 2015)

G. COLD-FORMED STEEL FRAMING: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, AMERICAN IRON AND STEEL INSTITUTE (AISI \$100-16(2020) W/S2-20) OTHER APPLICABLE AISI STANDARDS, AMERICAN IRON AND STEEL INSTITUTE, LATEST

1.2 DESIGN GRAVITY LOADS (PSF):

EDITION

- A. DEAD LOADS: ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE GENERAL CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.
- B. FLOOR LIVE LOADS: NON-REDUCIBLE PARTITION LIVE LOAD OF 20 PSF HAS BEEN INCLUDED PER IBC SECTION 1607.5.

LIVE LOAD REDUCTIONS AS DETERMINED BY IBC SECTION 1607.12 HAVE BEEN TAKEN WHERE PERMITTED

FLOOR (REDUCIBLE)----------100 STORAGE------125 MECHANICAL MEZZANINE-----125 STAIRS & EXITWAYS--------100

C. ROOF LIVE LOADS: WHERE PERMITTED ROOF LIVE LOADS ARE REDUCED FROM THE BASE VALUE SHOWN BELOW IN ACCORDANCE WITH IBC SECTION 1607.14.

ROOF-----20

D. ROOF SNOW LOADS: GROUND SNOW LOAD (Pg)-----IMPORTANCE FACTOR (I)-----1.1 EXPOSURE FACTOR (Ce)---------1.0 THERMAL FACTOR (Ct)--------1 (

1.3 DESIGN LATERAL LOADS:

WIND LOADS: ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)114MPH NOMINAL WIND SPEED (3-SECOND GUST)90MPH RISK CATEGORY	
INTERNAL PRESSURE COEFFICIENTS +/- 0.18	
SEE TYPICAL DETAILS FOR COMPONENT AND CLADDING LOADS	
SETSMIC LOADS:	
OCCUPANCY CATEGORY III (GROUP E OCCUPANCIES WITH OCCUPANCY >	250)
SEISMIC IMPORTANCE FACTOR1.25	,
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	
SS0.280	
s10.099	
SITE CLASSD	
SPECTRAL RESPONSE COEFFICIENTS:	
SDS0.294	
SD10.158	
SEISMIC DESIGN CATEGORYC	
BASIC SEISMIC-FORCE-RESISTING SYSTEM:	
INTERMEDIATE REINFORCED MASONRY SHEAR WALLS	
DESIGN DASE SHEAK.	
SEISMIC RESPONSE COEFFICIENT, CS	

RESPONSE MODIFICATION FACTOR, R-----3.5 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

2.0 GENERAL CONDITIONS

- 2.1 THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH OTHER DISCIPLINE'S DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT AND STRUCTURAL DESIGN GROUP.
- 2.2 ALL REPORTS, PLANS, SPECIFICATIONS, COMPUTER FILES, FIELD DATA, NOTES, AND OTHER DOCUMENTS AND INSTRUMENTS PREPARED BY STRUCTURAL DESIGN GROUP AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF STRUCTURAL DESIGN GROUP. STRUCTURAL DESIGN GROUP SHALL RETAIN ALL COMMON LAW, STATUTORY, AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT THERETO.
- 2.3 CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION.
- 2.4 WHERE SHOP DRAWINGS, CALCULATIONS, OR SUBMITTALS ARE CALLED FOR IN THE PROJECT DOCUMENTS (DRAWINGS AND SPECIFICATIONS) AND ARE NOT PROVIDED BY THE CONTRACTOR, THE CONTRACTOR ASSUMES TOTAL RESPONSIBILITY FOR THE DESIGN AND ASSOCIATED WORK.
- 2.5 ENGINEER'S SHOP DRAWING REVIEW IS LIMITED TO REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT REFLECTED IN THE STRUCTURAL PORTION OF THE CONTRACT DOCUMENTS. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS OR OTHER PROJECT CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED OR IMPLIED FOR THE CORRECTNESS OF DIMENSIONS OR DETAILS. THIS REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE WRITTEN FORM OR CHANGE ORDER. CONTRACTOR SHALL CONFIRM AND CORRELATE ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATE HIS WORK WITH THAT OF OTHER TRADES, AND PERFORM HIS WORK IN A SAFE AND SATISFACTORY MANNER. CONTRACTOR SHALL ALSO REFER TO THE REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY GENERAL CONDITIONS.
- 2.6 ALL DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS NOTED.
- 2.7 VERIFY ALL DIMENSIONS AND DETAILS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES OR OMISSIONS FOUND SHALL BE REPORTED TO THE ENGINEER AND OTHER DESIGN PROFESSIONALS AS APPROPRIATE FOR RESOLUTION PRIOR TO PROCEEDING WITH ANY RELATED WORK.

- 2.9 STRUCTURAL DESIGN GROUP IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SAFETY PROCEDURES, CONSTRUCTION SUPERVISION OR SITE SAFETY, AND DOES NOT HAVE THE AUTHORITY TO STOP WORK FOR THESE ITEMS. DRAWINGS FURTHER DO NOT PROVIDE ENGINEERING CONTROLS FOR SILICA STANDARD OR ANY OTHER SAFETY STANDARD.
- 2.10 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.
- 2.11 THE STRUCTURAL INTEGRITY OF THE BUILDING IS DEPENDENT UPON COMPLETION ACCORDING TO THE PLANS AND SPECIFICATIONS. THE STRUCTURAL ENGINEER OF RECORD ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION. THE METHOD OF CONSTRUCTION AND SEQUENCE OF OPERATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUPPLY ANY NECESSARY BRACING, GUYS, ETC. TO PROPERLY BRACE THE STRUCTURE AGAINST WIND, DEAD AND LIVE LOADS UNTIL THE BUILDING IS COMPLETED ACCORDING TO THE PLANS AND SPECIFICATIONS. ANY QUESTIONS REGARDING TEMPORARY BRACING REQUIREMENTS SHOULD BE FORWARDED TO A STRUCTURAL ENGINEER FOR REVIEW.
- 2.12 MECHANICAL UNITS AND ANY OTHER EQUIPMENT SUPPORTED BY THE STRUCTURE WITH WEIGHTS IN EXCESS OF 200 LBS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 2.13 WHERE NOTED IN DRAWINGS AND SPECIFICATIONS TO INSTALL PRODUCTS PER THE MANUFACTURER'S RECOMMENDATIONS, IT SHALL BE REQUIRED THAT THE CONTRACTOR FOLLOWS THE MANUFACTURER'S RECOMMENDATIONS.

REQUIREMENTS IN THE PROJECT DOCUMENTS.

2.15 OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD'S OFFICE DOES NOT REPLACE INSPECTIONS AND TESTING BY THE TESTING AGENCY OR SPECIAL INSPECTOR.

3.0 FOUNDATIONS

- 3.1 GEOTECHNICAL REPORT: FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT BY TERRACON, TITLED "HOMER SMILES STADIUM IMPROVEMENTS, PROJECT NO. E1245062, DATED JUNE 28, 2024" ALONG WITH ANY SUPPLEMENTAL CORRESPONDENCE. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS. GEOTECHNICAL RECOMMENDATIONS SHALL TAKE PRECEDENCE OVER THE ITEMS THAT FOLLOW IN THIS SECTION OF THE STRUCTURAL GENERAL NOTES.
- 3.2 MAXIMUM ALLOWABLE BEARING PRESSURES (PSF) PER GEOTECHNICAL REPORT: BUILDING FOUNDATIONS-----2500

FLOWABLE FILL.

- 3.3 ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH PRESSURES NOTED. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.
- 3.4 COMPACTED FILL WITHIN THE BUILDING AREA (AND EXTENDING 10'-0" OUTSIDE THE EXTERIOR BUILDING LINE) SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.
- 3.5 BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL, SUCH AS SIZE #57 STONE. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING TO WITHIN 18" OF FINISH GRADE ON EXTERIOR AND TO UNDERSIDE OF SLAB ON INTERIOR. AT EXTERIOR, CAP GRANULAR BACKFILL WITH 18" OF SOIL.
- 3.6 GRANULAR BACKFILL SUPPORTING A FOOTING SHALL BE COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. PROVIDE A 12" THICK CAP OF PROPERLY COMPACTED CRUSHER RUN STONE BETWEEN THE FOOTING AND THE PROPERLY COMPACTED GRANULAR BACKFILL. EXTEND CRUSHER RUN CAP TWO FEET BEYOND THE PERIMETER OF THE FOOTING OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- 3.7 FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.
- 3.8 DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST SEVEN DAYS AND HAVE ATTAINED 75% OF DESIGN STRENGTH.
- 3.9 REINFORCING STEEL IN CONTINUOUS WALL FOOTINGS SHALL EXTEND THRU SPREAD FOOTINGS AT THE SAME ELEVATION AS WALL FOOTING. STEP WALL FOOTING DOWN ON SPREAD FOOTING WHERE SPREAD FOOTING IS BELOW CONTINUOUS WALL FOOTINGS.
- 3.10 SUBGRADE AND GRANULAR FILL SUPPORTING SLABS ON GRADE SHALL BE AS RECOMMENDED BY THE GEOTECHNICAL REPORT AND COMPACTED UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER OR HIS APPROVED REPRESENTATIVE. SEE SPECIFICATIONS FOR VAPOR RETARDER BENEATH SLABS ON GRADE
- 3.11 GRANULAR FILL BENEATH SLABS, UNLESS NOTED OTHERWISE, SHALL BE 4" COMPACTED #57 STONE.
- 3.12 VAPOR RETARDER BENEATH SLABS ON GRADE, UNLESS NOTED, SHALL MEET ASTM E 1745, CLASS A, 15 MIL MINIMUM THICKNESS WITH MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE AND PIPE BOOTS, SUCH AS W.R. MEADOWS INC. PRODUCT PERMINATOR
- 3.13 NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (TWO HORIZONTAL TO ONE VERTICAL) TO A FOOTING.

4.0 CONCRETE

- 4.2 CONCRETE STRENGTH AND DURABILITY REQUIREMENTS: MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS (PSI), TYPE OF CONCRETE, MAXIMUM WATER/CEMENTITIOUS RATIO, AIR CONTENT, SLUMP, AND CONCRETE USE:

3000	NORMAL WT. 0.5
3500	NORMAL WT. 0.50
4000	NORMAL WT. 0.5
4000	NORMAL WT. 0.4
Α.	CONCRETE MIX DES
	USING LARGEST PH
Β.	AIR CONTENT FOR
	3%.
С.	CONCRETE FOR BEI
D.	CONCRETE USED FO

- LOW GRADE WALLS SHALL INCLUDE XYPEX ADMIXTURE. D. CONCRETE USED FOR POLISHED CONCRETE FLOORS SHALL HAVE #78 STONE SIZE MAX COARSE AGGREGATE, HAVE 4000 PSI MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS, AND BE LOW SHRINKAGE CONCRETE MIX WITH 28 DAY MAXIMUM SHRINKAGE OF 0.015% PER ASTM
- C157 WHEN WET CURED 3 DAYS.
- EXPOSURE CLASS DESCRIPTIONS:
 - FROM MOTSTURE. C1: CONCRETE EXPOSED TO MOISTURE BUT NOT TO DEICING CHEMICALS. C2: CONCRETE EXPOSED TO MOISTURE AND DEICING CHEMICALS.
- 4.3 REINFORCING BARS: ASTM A615 GRADE 60.

GENERAL NOTES

2.8 THESE DRAWINGS DO NOT INCLUDE PROVISIONS TO SATISFY JOB SITE SAFETY REQUIREMENTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING SAFETY DURING CONSTRUCTION AND FOR CONFORMANCE TO ALL APPLICABLE OSHA STANDARDS. JOBSITE VISITS BY ENGINEER SHALL NOT CONSTITUTE APPROVAL, AWARENESS OR LIABILITY FOR ANY HAZARDOUS CONDITIONS.

2.14 STRUCTURAL OBSERVATION IS VISUAL OBSERVATION OF THE IN PLACE STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT THE TIME OF THE OBSERVATION AND SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TESTING AND SPECIAL INSPECTIONS PER THE

NOTE: ALL FOOTING BEARING ELEVATIONS SHALL BE BEARING IN SIMILAR MATERIAL (NATIVE SOILS OR WEATHERED BEDROCK), EXTEND FOOTINGS AS NECESSARY WITH LEAN CONCRETE OR

4.1 CONCRETING OPERATIONS SHALL COMPLY WITH ACI STANDARDS.

STREN	GTH TYPE	MAX W/G	C AIR	SLUMP	USE EX	POSURE CATEGORY
3000 3500	NORMAL WT. NORMAL WT.	0.57		3" то 5" 3" то 5"	FOOTINGS SLABS	C1 F0
4000 4000	NORMAL WT. NORMAL WT.	0.50 0.45	 4-6%	3" то 5" 3" то 5"	SLABS ON METAL DEC UNLESS NOTED	к ғ0 с2

- ESIGN SHALL BE WORKABLE WITH LOWEST TOTAL WATER PER CUBIC YARD RACTICAL MAXIMUM SIZE OF COURSE AGGREGATE. CONCRETE FOR SLABS WITH HARD TROWELED FINISHES SHALL NOT EXCEED
- E. EXPOSED CONCRETE COLUMNS AND SLABS, EPXOSURE CATEGORY TO BE F2.
 - FO: CONCRETE NOT EXPOSED TO FREEZING AND THAWING CYCLES AND PROTECTED

- 4.4 WATERSTOPS: FLEXIBLE PVC WATERSTOPS, CE CRD-C 572, UNLESS NOTED OTHERWISE, WITH FACTORY-INSTALLED METAL EYELETS. FOR EMBEDDING IN CONCRETE TO PREVENT PASSAGE OF FLUIDS THROUGH JOINTS. FACTORY FABRICATE CORNERS, INTERSECTIONS, AND DIRECTIONAL CHANGES. ACCEPTABLE MANUFACTURER IS THE GREENSTREAK GROUP, INC, 800-325-9504, OR EQUAL. PROFILE SHALL BE FLAT, DUMBBELL WITH CENTER BULB WITH DIMENSIONS OF 6 INCHES BY 3/8 INCH THICK.
- A. FLEXIBLE WATERSTOP INSTALLATION: INSTALL IN CONSTRUCTION JOINTS AND AT OTHER JOINTS INDICATED TO FORM A CONTINUOUS DIAPHRAGM. INSTALL IN LONGEST LENGTHS PRACTICABLE. SUPPORT AND PROTECT EXPOSED WATERSTOPS DURING PROGRESS OF THE WORK.
- 4.5 REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
- 4.6 REINFORCING BAR PLACING ACCESSORIES IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL
- 4.7 DETAIL REINFORCEMENT IN ACCORDANCE WITH ACI 315. REINFORCEMENT SHALL NOT BE WELDED, UNLESS NOTED OR APPROVED BY THE ENGINEER.
- 4.8 ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 4.9 ALL REINFORCING MARKED "CONT." INDICATES REINFORCING SHALL BE "CONTINUOUS" AND SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICE, UNLESS NOTED.
- 4.10 PROVIDE CORNER BARS AT ALL CORNERS OF CONTINUOUS REINFORCING IN FOOTINGS, SLABS, OR WALLS. CORNER BARS SHALL BE LONG ENOUGH TO PROVIDE A CLASS "B" LAP SPLICE OF REINFORCING BARS.

4.11 CONCRETE COVERAGE OF REINFORCEMENT, UNLESS NOTED:

FOOTINGSBOTTOM & SIDES
COLUMNS1-1/2" CLEAR OF TIES
FOUNDATION RETAINING WALLS
SLAB FACES NOT EXPOSED TO WEATHER OR EARTH3/4"
SLAB FACES EXPOSED TO WEATHER
A. #5 AND LESS1-1/2"
B. #6 AND GREATER2"
BEAMS1-1/2" CLEAR OF STIRRUPS

NOTE: SLAB ON GRADE WWR OR REINFORCEMENT EACH WAY SHALL BE 2" CLEAR FROM TOP OF SLAB. SEE EARTH SUPPORTED SLABS SECTION BELOW.

4.12 PEDESTAL, COLUMN AND WALL VERTICAL REINFORCING: DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.

- 4.13 WELDED WIRE REINFORCEMENT (WWR): ASTM A1064, MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2 INCHES OR 6 INCHES
- 4 14 EARTH SUPPORTED SLABS:
 - 4" THICK (UNLESS NOTED), REINFORCED WITH 6x6 w2.9/w2.9 wwr flat sheets supported 2" CLEAR OF TOP OF SLAB, UNLESS NOTED. WWR TO BE CHAIRED AT 36 INCHES EACH WAY MINIMUM. SEE FOUNDATION NOTES FOR SUBGRADE REQUIREMENTS.
 - PROVIDE CONTROL AND CONSTRUCTION JOINTS AT 3-4 TIMES SLAB THICKNESS IN FEET MAXIMUM OR AS REQUIRED TO PREVENT UNCONTROLLED CRACKING PER ACI RECOMMENDATIONS. AS AN EXAMPLE, FOR A 4" THICK SLAB PROVIDE JOINTS SPACED 12 - 16 FEET MAXIMUM. PANELS TO BE RECTANGULAR WITH LONG SIDE NOT TO EXCEED 1-1/2 TIMES SHORT SIDE. CUTTING SHOULD BE STARTED AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATE FROM BEING DISLODGE. CONTRACTOR SUBMIT PLAN SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS.
 - FLOOR DESIGN AND CONSTRUCTION BASIS IS ACI 302 AND 360, AND IT IS UNREALISTIC TO EXPECT CRACK-FREE OR CURL-FREE FLOORS. IT IS NORMAL TO EXPECT SOME AMOUNT OF CRACKING AND CURLING IN THE SLAB ON GRADE. AND SUCH OCCURRENCE DOES NOT NECESSARILY REFLECT ADVERSELY ON EITHER THE ADEQUACY OF THE FLOOR DESIGN OR THE QUALITY OF ITS CONSTRUCTION.
 - EARTH SUPPORTED SLABS SHALL BE MOIST CURED FOR A MINIMUM OF SEVEN DAYS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. CURING COMPOUNDS, UNLESS NOTED, SHALL BE A MINIMUM OF CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND MEETING ASTM C 309, TYPE 1, CLASS B, SELF-DISSIPATING, CERTIFIED BY CURING COMPOUND MANUFACTURER TO NOT INTERFERE WITH BONDING OF FLOOR COVERING.
 - WHERE CONTROL JOINTS TERMINATE INTO NON-PARALLEL CONTROL JOINTS, PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB PERPENDICULAR TO TERMINAL CONTROL JOINT.
 - PROVIDE 2#4 X 6'-0" BARS MID DEPTH OF SLAB AT REENTRANT CORNERS.
 - WHERE CONTROL JOINTS TERMINATE AT EMBEDDED STEEL ELEMENTS (SUCH AS EDGE
 - REINFORCEMENT AT LOADING DOCKS), PROVIDE JOINT IN STEEL ELEMENT.
- 4.15 CONTRACTION JOINTS IN WALLS: WALL JOINTS SHALL NOT BE SPACED FARTHER THAN 15 FEET FOR 8" WALLS, 20 FEET FOR 10" WALLS AND 30 FEET FOR 12" WALLS. WALL JOINTS SHALL ADDITIONALLY NOT BE LOCATED WITHIN 4'-0" OF EMBED PLATES OR CORNERS OF THE WALL. DISCONTINUE 50% OF THE WALL HORIZONTAL REINFORCING THROUGH JOINTS; TRIMMING BACK THE REINFORCING BARS 2" FROM THE CONTROL JOINT LOCATION. LOCATE CONTROL JOINTS EACH SIDE OF THE WALL. SEAL JOINTS WITH ELASTOMERIC SEALANT. SEE WALL CONTRACTION JOINT TYPICAL DETAIL.
- 4.16 WALL AND SLAB OPENINGS AND SLEEVES SMALLER THAN 12" (IN LARGER DIMENSION) ARE NOT SHOWN ON PLANS. CONTRACTOR SHALL SUBMIT ALL OPENINGS (SIZE AND LOCATIONS) AS A SINGLE COORDINATED SLEEVE PLAN FOR REVIEW AND APPROVAL.
- 4.17 CAST IN PLACE ALL SLEEVES AND INSERTS.
- 4.18 SLAB CRACKS THAT DEVELOP ON EXPOSED LEVELS SHOULD BE INJECTED WITH EPOXY TO LIMIT DETERIORATION OF THE REBAR.
- 4.19 FOR ALL CONCRETE EXPOSED TO VIEW IN THE FINISHED CONFIGURATION OF THE STRUCTURE, PROVIDE RUBBED FINISH AT A MINIMUM. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

5.0 ARCHITECTURAL AND STRUCTURAL PRECAST CONCRETE

- 5.1 REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATIONS FOR DIMENSIONAL, FINISHING, AND OTHER REQUIREMENTS OF THE ARCHITECTURAL PRECAST.
- 5.2 PRECAST MANUFACTURER IS TO BE RESPONSIBLE FOR THE DESIGN OF ALL PRECAST MEMBERS AND THEIR CONNECTIONS TO THE STRUCTURE. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 5.3 ANY CONNECTIONS SHOWN ON CONTRACT DRAWINGS ARE SHOWN FOR GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL COORDINATE ALL PRECAST CONNECTIONS AND EMBEDDED ITEMS WITH THE PRECAST MANUFACTURER.
- A. CONNECTIONS OF THE PRECAST TO THE STRUCTURE SHALL NOT RESTRAIN THE STRUCTURE'S 1" DOWNWARD MOVEMENT AT ALL BEAMS AND 1" UPWARD MOVEMENT AT ROOF BEAMS.
- 5.4 ERECTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TEMPORARY BRACING UNTIL ALL CONNECTIONS HAVE BEEN MADE AND TOPPING HAS BEEN CAST.
- 5.5 PRECAST MANUFACTURER SHALL PROVIDE STABILIZING ANGLES AND SIMILAR MISCELLANEOUS METALS, AS REQUIRED, FOR ALL PRECAST WORK.
- 5.6 ALL EXPOSED STEEL CONNECTIONS AND SUPPORT ANGLES, PLATES, BARS AND BOLTS IN CONJUNCTION WITH ALL PRECAST CONCRETE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION AND FIELD TOUCHED UP WITH ZINC RICH PAINT.
- 5.7 ADJUSTMENT AND POSSIBLY RESETTING OF PRECAST MAY BE REQUIRED TO ALIGN PRECAST DUE TO SUPPORT DEFLECTION AND/OR ROTATION.
- 5.8 SUPPORTING BEAMS AND STRUCTURE WILL DEFLECT AND/OR ROTATE. PRECAST MANUFACTURER AND ERECTOR SHALL COORDINATE CONNECTION/ERECTION SEQUENCE TO ACCOUNT FOR THIS MOVEMENT AND MAKE FINAL ADJUSTMENTS TO ALIGN AND PLUMB PRECAST. THIS MAY REQUIRE ADJUSTING CONNECTIONS OR RECONNECTING.

6.0 STRUCTURAL STEEL

- STRUCTURAL WELDING CODE STEEL.

 - INDICATED.

6.8 CONNECTIONS:

- CONNECTION.

- IS GALVANIZED AND PAINTED.
- BEAM WITH 1/4" PARTIAL PENETRATION WELDS.

- WHICHEVER IS LESS.

- SHOP DRAWINGS.

7.0 STEEL DECK

GALVANIZING PAINT.

7.6 NON-COMPOSITE DECK:

SHEET STEEL.

6.1 FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS". FABRICATOR SHALL BE QUALIFIED BY PARTICIPATING IN THE AISC QUALITY CERTIFICATION PROGRAM AND HOLD THE AISC BUILDING FABRICATOR QMS CERTIFICATION (BU).

6.2 THE STEEL FRAME IS "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL THE REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE.

6.1 STRUCTURAL STEEL: ASTM A992 FOR WIDE FLANGE BEAMS AND COLUMNS AND STEEL CHANNELS; A572 FOR S. M. HP SHAPES AND STEEL ANGLES: ASTM A36 FOR STIFFENER PLATES, BASE PLATES, COLUMN CAP PLATES, BEAM CONNECTION PLATES.

6.2 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE C.

6.3 WELDED CONNECTIONS: E70XX ELECTRODES, MINIMUM SIZE FILLET WELD 3/16". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.1, THE

6.4 THREADED AND PLAIN STEEL RODS: ASTM A36

6.5 HIGH STRENGTH THREADED RODS: ASTM A193 B7

6.6 ANCHOR RODS: ASTM F1554 GRADE 36 ANCHOR AND HEAVY HEX NUT OR ASTM F1554 GRADE 55 ANCHOR AND HEAVY HEX NUT WITH SUPPLEMENTARY REQUIREMENT S1, UNLESS OTHERWISE

A. IF ANCHOR ROD ASSEMBLIES ARE NOT ENCASED IN MINIMUM OF 3" OF CONCRETE. ANCHOR ROD ASSEMBLIES ARE TO BE HOT-DIP GALVANIZED.

6.7 HEADED STUDS: TYPE B SHEAR STUD CONNECTORS MADE FROM ASTM A108, GRADE 1015 OR 1020, COLD-FINISHED CARBON, AND COMPLYING WITH AWS D1.1.

A. BEARING TYPE A325-N ACCORDANCE WITH RCSC (LRFD OR ASD VERSION) "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". BOLTS THROUGH 4" WIDE BEAM FLANGES SHALL BE 5/8" DIAMETER. OTHERWISE, BOLTS SHALL BE 3/4" DIAMETER.

B. BOLTS SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT BOLTS MAY BE USED. ACTUAL NUMBER, UNLESS SPECIFIED, TO BE IN ACCORDANCE WITH AISC.

C. ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST FORCES INDICATED, BY THE CONTRACTOR.

1. WHERE BEAM REACTIONS ARE SHOWN ON THE DRAWINGS, THE CONNECTIONS SHALL DEVELOP THE REACTIONS SHOWN. WHERE CONNECTIONS ARE SUBJECT TO ECCENTRICITY, SUCH ECCENTRICITY SHALL BE TAKEN INTO ACCOUNT WHEN DESIGNING AND DETAILING THE

2. WHERE BEAM REACTIONS OR DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL CONTACT STRUCTURAL DESIGN GROUP FOR DIRECTION.

D. DESIGN CALCULATIONS FOR THE CONNECTIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

6.9 ALL STRUCTURAL STEEL, INCLUDING EXPOSED BOLTS, NUTS, WASHERS OR ANCHOR RODS, EXPOSED TO WEATHER IN THE FINAL CONETGURATION OF THE STRUCTURE SHALL BE HOT-DTP GALVANIZED. UNLESS NOTED, PER ASTM A 123/A 123M. VENT HOLES SHALL BE FILLED AND GROUND SMOOTH AFTER GALVANIZING, DAMAGE TO GALVANIZING SHALL BE PAINTED WITH GALVANIZING REPAIR PAINT, SSPC-PAINT 20. SEE 05120 SPECIFICATION FOR PAINT REQUIREMENTS FOR STEEL THAT

6.10 WHERE STEEL BEAMS ARE CONTINUOUS OVER COLUMNS, PROVIDE WEB STIFFENER PLATES EACH SIDE OF BEAM WEB, OF THICKNESS EQUAL TO BEAM FLANGE THICKNESS, LOCATED IN ALIGNMENT WITH COLUMN WEB OR FLANGES OR CENTER LINE OF HSS COLUMNS.

6.11 PROVIDE 3/4" THICK CLOSURE PLATES ON THE ENDS OF HSS BEAMS. SHOP WELD ALL AROUND TO

6.12 ALL STEEL EXPOSED TO WEATHER, INCLUDING STEEL LINTELS FOR MASONRY OPENINGS. EXCEPT WHERE FABRICATED OF APPROVED CORROSION-RESISTANT STEEL OR OF STEEL HAVING A CORROSION RESISTANT OR OTHER APPROVED COATING, SHALL BE PROTECTED AGAINST CORROSION WITH AN APPROVED COAT OF PAINT, ENAMEL, OR OTHER APPROVED PROTECTION.

6.13 STEEL STAIRS AND ASSOCIATED EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED TO RESIST THE PROJECT DESIGN LOADS INDICATED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. STAIRS SHALL BE DESIGNED IN ACCORDANCE WITH THE NAAMM METAL STAIR MANUAL AND AISC, AND AS LISTED BELOW. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE INCLUDED WITH THE STAIR SHOP DRAWINGS.

A. STAIR FRAMING SHALL BE CAPABLE OF WITHSTANDING STRESSES RESULTING FROM RAILING LOADS IN ADDITION TO LOADS SPECIFIED ABOVE. B. LIMIT DEFLECTION OF TREADS, PLATFORMS, AND FRAMING MEMBERS TO L/360 OR 1/4 INCH,

C. DESIGN OF STAIR FRAMING SHALL ALSO COMPLY WITH AISC'S "STEEL DESIGN GUIDE SERIES 11; FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY."

6.14 ALL HANDRAILS, GUARDRAILS, AND EMBEDS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE NOTED ABOVE, BY THE CONTRACTOR, UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CALCULATIONS SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT/ENGINEER AND SHALL BE INCLUDED WITH THE

7.1 DECK PROPERTIES AND ATTACHMENTS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE

7.2 DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS. WHERE DECK SPANS LESS THAN THREE SPANS ARE REQUIRED, THEY SHOULD BE CLEARLY MARKED ON THE SHOP DRAWINGS.

7.3 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE AS SHOWN IN THE TYPICAL DETAILS AND/OR NOTED IN PLAN/SECTION NOTES.

A. MANUFACTURER SHALL VERIFY ROOF DECK ATTACHMENT IS ADEQUATE TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENTS AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

7.4 STEEL ROOF DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH #12 TEK SCREWS IN A 36/4 PATTERN, SEE TYPICAL DETAILS AND/OR PLAN/SECTION NOTES. SIDE LAP FASTENERS SHALL BE #10 TEK SCREWS. PROVIDE ONE SIDELAP FASTENER PER SPAN, UNLESS NOTED. ROOF DECK GALVANIZING DAMAGED BY WELDING AND WELD ITSELF SHALL BE PAINTED WITH A COLD

7.5 ROOF DECK: WIDE RIB TYPE "WR", STEEL ROOF DECK, 20 GAGE, 1-1/2" DEEP, GALVANIZED.

A. 3 1/2" THICK CONCRETE SLAB ON NON-COMPOSITE STEEL FORM DECK, 20 GAGE, 9/16" DEEP WITH 6X6 W2.1/W2.1 WWR AT MID DEPTH OF SLAB, UNLESS NOTED (4" TOTAL). DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS OR #12 TEK SCREWS SPACED AT 10" ON CENTER, UNLESS NOTED.

B. 8 1/2" THICK CONCRETE SLAB ON NON-COMPOSITE STEEL FORM DECK, 20 GAGE, 1 1/2" DEEP WITH #4@12 EW T&B OF SLAB, UNLESS NOTED (10" TOTAL). DECK SHALL BE CONNECTED TO SUPPORTING STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS OR #12 TEK SCREWS SPACED AT 10" ON CENTER, UNLESS NOTED.

7.7 WELDED CONNECTIONS: E60XX ELECTRODES. WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE

SDG STRUCTURAL DESIGN GROU 300 Chase Park South, Suite 125 Hoover, AL 35244 tel 205-824-5200 fax 205-824-5280 Job Number 24-088



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SHEET TITLE: GENERAL NOTES

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- 7.8 NO CONDUIT OR PIPE SHALL BE CAST IN THE SLAB WITHOUT THE WRITTEN APPROVAL OF STRUCTURAL DESIGN GROUP. CONDUIT SHALL NOT BE PLACED IN SLABS REQUIRING A FIRE RESISTANCE RATING OR UL RATING.
- 7.9 LIGHT GAUGE METAL FRAMING, SUSPENDED CEILINGS, LIGHT FIXTURES AND DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

8.0 MASONRY

- 8.1 MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602-16 SPECIFICATION.
- 8.2 ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY THE LOCAL BUILDING CODE.
- 8.3 MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNIT (f'm) SHALL BE 2000 PSI AT 28 DAYS.
- 8.4 NET COMPRESSIVE STRENGTH FOR EACH CMU UNIT SHALL MEET OR EXCEED 2000 PSI AT 28 DAYS. FOR TYPE N MORTAR, NET COMPRESSIVE STRENGTH FOR BLOCK SHALL BE GREATER THAN 2650 PSI.
- 8.5 GROUT COMPRESSIVE STRENGTH SHALL BE 2500 PSI AT 28 DAYS. GROUT SHALL ADDITIONALLY COMPLY WITH TABLE 6 OF TMS 602 FOR DIMENSIONS OF GROUT SPACES AND POUR HEIGHTS. COURSE GROUT SHALL BE USED WHERE POSSIBLE.
- 8.6 ALL MASONRY SHALL BE NORMAL WEIGHT IN ACCORDANCE WITH ASTM C90.
- 8.7 MORTAR: EXCEPT OTHERWISE SET FORTH HERIN ALL MORTARS AND THE MATERIALS THERIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR MORTAR OF MASONRY UNITS, ASTM C270.
- A. THE TYPE OF MORTAR BASED ON CONSIDERATION OF THE LOCATION OF THE UNIT MASONRY

USE OF LOCATION	TYPE OF MORTAR
BELOW GRADE FOUNDATION AND WALLS	М
RETAINING WALLS	м
FIRE RESISTIVE WALLS RATED 2 HOURS OR MOR	E MORS
EXTERIOR WALLS AND LOAD BEARING WALLS	M OR S
PARTITIONS	M, S OR N
SOLID MASONRY UNITS	ONE CLASSI
	LESS THAN
MORTAR OR GROUT UNDER CONCENTRATED LOADS	Μ
FENCES OR SITE WALLS	M OR S

M OR S M OR S M, S OR N ONE CLASSIFICATION LESS THAN THE ABOVE M OR S

8.8 ALL MASONRY SHALL BE STACK BOND, UNLESS NOTED.

CONSTRUCTION SHALL BE AS FOLLOWS:

- 8.9 ALL BLOCK CELLS AND CAVITIES BELOW GRADE SHALL BE FILLED WITH CONCRETE OR GROUT.
- 8.10 MASONRY REINFORCING LAP SPLICE LENGTHS PER SCHEDULE, SEE MASONRY LAP SPLICE LENGTHS TYPICAL DETAIL.
- 8.11 THE CONTRACTOR SHALL PROVIDE DETAILED SHOP DRAWINGS OF THE CMU REINFORCEMENT.
- A. SHOP DRAWINGS SHALL INCLUDE AN ELEVATION VIEW OF EACH REINFORCED (LOAD BEARING OR NON-LOAD BEARING) WALL WITH ALL VERTICAL AND HORIZONTAL REINFORCING AS WELL AS WALL OPENINGS/PENETRATIONS SHOWN. REINFORCING SHOP DRAWINGS NOT CONTAINING THESE ELEVATION DRAWINGS WILL BE RETURNED AS AN INCOMPLETE SUBMITTAL.
- B. SHOP DRAWINGS SHALL UNDERGO A QUALITY REVIEW BY THE REBAR DETAILER & SUPERVISOR, AS WELL AS THE CONTRACTOR. SUBMITTALS SHALL INCLUDE ALL OPENINGS, REINFORCING, AND ELEVATIONS NOTED. SUBMITTALS REVIEWED MORE THAN A 2ND TIME MAY RESULT IN DELAYS TO THE CONTRACTOR. ANY ADDITIONAL TIME REQUIRED TO REVIEW A SUBMITTAL FOR A 3RD OR MORE TIME WILL BE BILLED TO THE CONTRACTOR AS ADDITIONAL SERVICES.
- C. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A REBAR DETAILER CAPABLE OF HAVING THE SAME TEAM OF DETAILERS THROUGHOUT THE PROJECT. A LETTER WITH A LIST OF THE DETAILERS AND THE QUALITY SUPERVISOR AND THEIR INITIALS SHALL BE SUBMITTED BEFORE ANY SHOP DRAWINGS HAVE BEEN SUBMITTED. THE INITIALS OF THE DETAILS AND THE QUALITY SUPERVISOR SHALL BE NOTED ON EACH SHOP DRAWINGS.
- 8.12 MODIFY CMU BLOCKS AS REQUIRED TO INSTALL REINFORCING AS NOTED/SHOWN.
- 8.13 PROVIDE CONTRACTION (CONTROL) JOINTS IN ALL CONCRETE MASONRY WALLS AT LOCATIONS APPROVED BY THE ARCHITECT AT A MAXIMUM SPACING OF 2.0 TIMES THE WALL HEIGHT OR 25'-0". WHICHEVER IS LESS.
- 8.14 CONTROL JOINTS IN CMU WALLS SHALL BE DISCONTINUOUS AT MASONRY BOND BEAMS. BOND BEAM REINFORCING SHALL EXTEND CONTINUOUS WITH MASONRY LAP SPLICES AND CORNER BARS. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- 8.15 WHEN REINFORCING IS SPECIFIED, PROVIDE REINFORCING AT EACH SIDE OF CONTROL JOINTS, OPENINGS AND WALL ENDS.
- 8.16 EXTEND REBAR AT WALL OPENINGS A MINIMUM OF 2'-0" PAST THE OPENING AT ALL CORNERS, UNLESS NOTED OTHERWISE. AT WINDOWS, PROVIDE A MINIMUM OF 2#4 BARS AT THE SILLS OF THE WINDOWS, UNLESS NOTED OTHERWISE.
- 8.17 AT CMU PARTITIONS OVER 8'-0" TALL, SUPPORTED BY SLAB ON GRADE, PROVIDE THICKENED SLAB PER TYPICAL DETAILS.
- 8.18 WHERE ANY CMU WALL IS NOT SUPPORTED AT THE TOP, PROVIDE MINIMUM #5@16 VERTICAL REINFORCING, UNLESS NOTED OTHERWISE.
- 8.19 PROVIDE WALL TOP SUPPORT AT 8'-0" O.C. FOR ALL INTERIOR NON-LOAD BEARING CMU WALLS WHERE CONTINUOUS WALL SPAN BETWEEN PERPENDICULAR BRACING WALLS EXCEEDS 20'-0". SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- 8.20 PROVIDE HORIZONTAL JOINT REINFORCING IN REINFORCED MASONRY WALLS AS DIRECTED BY THE ARCHITECT. AT WALL CORNERS AND INTERSECTIONS. PROVIDE PREFABRICATED T AND L SHAPES. FIELD BENDING IS NOT PERMITTED. MINIMUM OF LADDER TYPE ZINC COATED CONFORMING TO ASTM A82 HOHMANN & BARNARD 220 LADDER-MESH OR EQUIVALENT AT EVERY OTHER BLOCK COURSE ABOVE FOOTING. REINFORCEMENT SHOULD CONSIST OF TWO OR MORE LONGITUDINAL WIRES, NO. 9 GAUGE OR LARGER, WELDED WITH NO. 9 GAUGE OR LARGER CROSS WIRES. LAP SPLICE HORIZONTAL JOINT REINFORCING A MINIMUM OF 12".
- 8.21 PROVIDE DOVETAIL ANCHORS AT 16" O.C., UNLESS NOTED OTHERWISE, WHERE MASONRY WALLS ABUT CONCRETE SURFACES.
- 8.22 PROVIDE GROUT FILLED LINTEL BLOCKS AT TOP OF ALL CMU WALLS REINFORCED WITH 2#4 BARS CONTINUOUS, UNLESS NOTED OTHERWISE.
- 8.23 CONDUITS, REFRIGERANT PIPING (WITH ANY REQUIRED INSULATION INCLUDED), CONDENSATE DRAIN LINES, ETC. UP TO 2" IN OUTSIDE DIAMETER MAY EXTEND CONTINUOUS THRU MASONRY WALLS & BOND BEAMS. COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, ETC. DRAWINGS FOR SIZE AND LOCATION. DO NOT INTERRUPT CONTINUOUS REINFORCING STEEL IN PLACEMENT OF CONDUITS, PIPING, DRAIN LINES, ETC.
- 8.24 WHERE MASONRY WALLS SUPPORT EARTH ON BOTH SIDES, BACKFILL EACH SIDE SIMULTANEOUSLY. 8.25 WHERE TOP OF FOOTING SUPPORTING MASONRY WALLS IS MORE THAN 2'-8" BELOW FINISH FLOOR, PROVIDE #6 AT 16" O.C., UP TO THE FIRST COURSE ABOVE FINISH FLOOR ELEVATION, IN
- 8.26 THE MASONRY WALLS ARE "NON-SELF-SUPPORTING". ADEQUATE TEMPORARY SUPPORT MUST BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE IN PLACE. BRACING SHALL BE PER THE FOLLOWING, AND CONTRACTOR SHALL PROVIDE ADDED REINFORCING AND GROUT IF REQUIRED BY THE BRACING.

ADDITION TO THE SPECIFIED REINFORCEMENT, UNLESS NOTED OTHERWISE.

- A. THE "2012 STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION". B. THE "MASONRY WALL BRACING HANDBOOK" AS PUBLISHED BY THE MASON CONTRACTORS ASSOCIATION OF AMERICA (MCAA) SHOULD BE USED IN CONJUNCTION WITH THE "STANDARD PRACTICE"
- 8.27 PROVIDE 2 COURSES OF GROUT FILLED OPEN BOTTOM BOND BEAM BLOCKS REINFORCED WITH 2#5 BARS CONTINUOUS AT ALL STEEL STAIR ATTACHMENT LOCATIONS, UNLESS NOTED OTHERWISE. CONTRACTOR COORDINATE EXACT LOCATIONS WITH STEEL STAIR DESIGNER.

9.0 WOOD CONSTRUCTION

- 9.1 ALL SAWN LUMBER IN CONTACT WITH SOIL, MASONRY OR CONCRETE, OR EXPOSED TO WEATHER TO HAVE A PRESERVATIVE PRESSURE TREATMENT IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATIONS (AWPA) STANDARD U1 (CURRENT EDITION).
- 9.2 CUT ENDS OR ALL TREATED LUMBER SHALL BE FIELD TREATED WITH AN APPROVED PRESERVATIVE IN ACCORDANCE WITH THE TREATMENT MANUFACTURERS INSTRUCTIONS AND AWPA STANDARD M4-08.
- 9.3 ALL LUMBER SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT, INCLUDING PRESERVATIVE TREATED LUMBER.
- 9.4 ALL SCREWS, BOLTS, AND NAILS FOR USE WITH PRESERVATIVE TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. FASTENERS TO BE HOT-DIPPED GALVANIZED SHALL MEET THE REQUIREMENTS OF ASTM A 153, CLASS D FOR 3/8" DIAMETER OR SMALLER AND CLASS C FOR FASTENERS WITH DIAMETERS OVER 3/8".
- 9.5 FASTENERS OTHER THAN NAILS AND TIMBER RIVETS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55. MINIMUM.
- 9.6 METAL CONNECTORS SHOWN IN DOCUMENTS ARE SIMPSON STRONG TIE CONNECTORS. SUBSTITUTION WITH EOUAL CONNECTORS BY OTHER MANUFACTURERS IS ACCEPTABLE.
- 9.7 ALL HARDWARE (JOIST HANGERS, ETC.) SHALL BE GALVANIZED OR SHALL BE STAINLESS STEEL. HARDWARE TO BE HOT-DIPPED PRIOR TO FABRICATION SHALL MEET ASTM A 653, G-185 COATING. HARDWARE TO BE HOT-DIPPED AFTER FABRICATION SHALL MEET ASTM A 123.
- 9.8 FASTENER AND HARDWARE SELECTION: HOT-DIPPED GALVANIZED MATERIAL SHALL NOT BE USED IN CONTACT WITH STAINLESS STEEL MATERIAL.
- 9.9 ALL NAIL SIZES INDICATED IN DOCUMENTS ARE BASED ON COMMON WIRE NAILS. SUBSTITUTION OF DIFFERENT STYLE NAILS IS ACCEPTABLE BASED ON ACTUAL DIAMETER ONLY.
- 9.10 DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES" OF THE TRUSS PLATE INSTITUTE. TRUSS ERECTION PLANS AND CALCULATIONS DESIGNED BY THE CONTRACTOR SHALL BE SUBMITTED FOR THE REVIEW OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 9.11 TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:
- A. ROOF TOP CHORD DEAD LOAD-----10 PSF
- B. ROOF BOTTOM CHORD DEAD LOAD-----10 PSF . ROOF TOP CHORD LIVE LOAD-----20 PSF
- D. ROOF BOTTOM CHORD LIVE LOAD-----250 LBS (CONCENTRATED LOAD AT ANY LOCATION ALONG BOTTOM CHORD)
- 9.12 DESIGN OF ACTUAL WOOD TRUSS WEB CONFIGURATION TO BE DETERMINED BY TRUSS MANUFACTURER.

9.13 DESIGN WOOD TRUSSES TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENT AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

- 9.14 IN ADDITION TO THE ABOVE LOADS, WOOD TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. MAXIMUM LOAD IS 200 LBS PER CONNECTION ACCORDING TO NOTE BELOW. SUBCONTRACTOR SHALL PROVIDE HANGER SPACINGS TO NOT EXCEED 200 LBS LOAD TO TRUSS.
- 9.15 ALL TRUSS TO TRUSS CONNECTIONS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER FOR THE LOADS INDICATED.
- 9.16 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR WOOD TRUSSES SHALL BE DESIGNED AND DETAILED ON THE WOOD TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR ACCORDING TO THE TRUSS MANUFACTURER'S ERECTION PLANS AND "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" BY BCSI, LATEST EDITION.
- 9.17 TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.
- 9.18 ROOF SHEATHING: 3/4" PLYWOOD, APA RATED SHEATHING EXPOSURE 1, WITH PLY CLIPS AT ALL UNSUPPORTED EDGES. PANEL IDENTIFICATION INDEX 48/24.LONG DIMENSION OF PANEL PERPENDICULAR TO SUPPORTS.
- 9.19 ROOF SHEATHING NAILING, UNLESS NOTED: 10d NAILS AT 6 INCHES AT ALL FOUR PANEL EDGES AND 12 INCHES AT INTERMEDIATE SUPPORTS.

10.0 COLD-FORMED STEEL FRAMING

- 10.1 STRUCTURAL PROPERTIES OF COLD-FORMED STEEL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING" AND OTHER APPLICABLE AISI STANDARDS, LATEST EDITIONS.
- 10.2 UNLESS SPECIFICALLY DESIGNED AND DETAILED IN DRAWINGS, GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL DETAILS FOR FRAMING LAYOUT AND SECTIONS. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 10.3 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD-FORMED STEEL FRAMING. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FRAMING LAYOUT. SIZES. SPACING, AND SECTIONS. THE GAGE OF THE STUDS, IF SHOWN, SHALL NOT BE REVISED UNLESS IT IS REQUIRED TO BE INCREASED AS DIRECTED BY THE COLD-FORMED STEEL DESIGN ENGINEER. COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED FOR FILES OF THE STRUCTURAL ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONTRACTOR SHALL INCLUDE THE COST OF SHOP DRAWINGS AND CALCULATIONS, INCLUDING ENGINEERING FEES, IN THE BASE BID OF THE CONTRACT.

10.4 DEFLECTION LIMITS FOR MEMBERS:

Α.	SOFFITS:	DL L/240	LL L/240	ΤL	L/18
Β.	WALL SUPPORTING BRICK:	HORIZONTAL	DEFLECTION	0F	L/60
С.	WALL SUPPORTING STUCCO:	HORIZONTAL	DEFLECTION	0F	L/36
D.	WALL SUPPORTING EIFS:	HORIZONTAL	DEFLECTION	0F	L/24
E.	WALL PARTITIONS:	HORIZONTAL	DEFLECTION	0F	L/18

- 10.5 COLD-FORMED STEEL FRAMING MEMBERS SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK. 10.6 COLD-FORMED STEEL FRAMING MEMBERS ABUTTING STRUCTURE SHALL HAVE VERTICAL SLIP TRACKS
- TO ACCOMMODATE UP TO 1-1/2" VERTICAL MOVEMENT UP OR DOWN. 10.7 PROVIDE WALL BRACING, CONNECTION DETAILS, WINDOW/DOOR HEADERS, ETC AS RECOMMENDED BY
- THE STUD MANUFACTURER FOR COLD-FORMED STEEL FRAMING MEMBERS.
- 10.8 TRACK SHALL BE SCREWED TO STUD WITH 2#8 TEK SCREWS EACH FLANGE, OR AS REQUIRED BY DESIGN.
- 10.9 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH 1/8" FILLET WELD 1" LONG SPACED AT 6" O.C.
- 10.10 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.
- 10.11 PROVIDE SHOP DRAWINGS SHOWING PLANS, ELEVATIONS AND CONNECTION DETAILS FOR ALL NON-LOAD BEARING COLD-FORMED STEEL FRAMING.

GENERAL NOTES CONTINUED

10.12 ALL CONNECTIONS OF THE COLD-FORMED STEEL FRAMING MEMBERS TO THE STRUCTURE SHALL BE FULLY DETAILED ON THE COLD-FORMED STEEL FRAMING SHOP DRAWINGS. ANY SPECIAL LOADING IMPOSED ON THE STRUCTURE SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.

11.0 PRE-MANUFACTURED COLD-FORMED STEEL TRUSSES

11.1 STRUCTURAL PROPERTIES OF FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING".

11.2 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL COLD FORMED STEEL TRUSSES AND RAFTERS, ALSO SEE SPECIFICATION 05400.

11.3 IN ADDITION TO PROVIDING THE COLD-FORMED STEEL TRUSS SYSTEM CALLED FOR IN THESE DOCUMENTS THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

A. DESIGN OF THE TRUSS SYSTEM AND RAFTER SYSTEM, COLLECTIVELY THE 'TRUSSES'.

B. ENGINEERING PROVIDED BY MANUFACTURER SHALL BE A COMPLETE PACKAGE SIMILAR TO THE "WORKS" PACKAGE PROVIDED BY AEGIS METAL FRAMING OR EOUAL. C. DESIGN OF ALL TRUSS COMPONENTS, TEMPORARY AND PERMANENT BRACING, TRUSS TO TRUSS

CONNECTIONS, AND TRUSS TO STRUCTURE CONNECTIONS. D. WHERE TRUSSES ARE SUPPORTED BY CONCRETE, AND THE TRUSS TO STRUCTURE CONNECTION DESIGNED BY THE CONTRACTOR CALLS FOR EMBED STEEL PLATES, SUCH PLATES SHALL ALSO BE DESIGNED BY THE CONTRACTOR. THE DESIGN SHALL MEET THE PROVISIONS OF ACI

- E. DIMENSIONED TRUSS FRAMING PLAN.
- F. TRUSS ERECTION PLAN.

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- G. PLAN SHOWING LAYOUT AND DETAILS OF ANY TEMPORARY AND PERMANENT BRACING REOUIRED.
- H. DETAILED AND DIMENSIONED PLAN SHOWING THE LOCATION AND TYPE OF EMBEDS OR CONNECTION MATERIAL REQUIRED TO ANCHOR THE TRUSSES TO THE STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED TO ANCHOR THE TRUSS TO THE STRUCTURE.
- I. CALCULATIONS FOR THE ABOVE SHALL BE SUBMITTED FOR THE FILES OF THE ARCHITECT AND ENGINEER. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL HAVE PERSONALLY SUPERVISED THE DESIGN AND PREPARATIONS OF THE CALCULATIONS. SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH THESE CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED UNCHECKED AS AN INCOMPLETE SUBMITTAL.

11.4 TRUSS MANUFACTURER SHALL DESIGN FOR THE FOLLOWING SUPERIMPOSED LOADS:

- A. TOP CHORD DEAD LOAD -----10 PSF
- B. BOTTOM CHORD DEAD LOAD -----10 PSF C. TOP CHORD LIVE LOAD -----20 PSF

11.5 DEFLECTION LIMITS FOR MEMBERS:

Α.	SOFFITS:	DL L/240 LL L/360 TL L/180
Β.	ROOF:	DL L/240 LL L/360 TL L/180
С.	END WALL GABLE SUPPORTING BRICK:	HORIZONTAL DEFLECTION OF L/600
D.	END WALL GABLE SUPPORTING STUCCO:	HORIZONTAL DEFLECTION OF L/360
Ε.	END WALL GABLE SUPPORTING EIFS:	HORIZONTAL DEFLECTION OF L/240

11.6 DESIGN TRUSSES TO RESIST THE WIND UPLIFT LOADING FROM THE COMPONENT AND CLADDING WIND LOAD TABLE PROVIDED IN THE TYPICAL DETAILS.

- 11.7 IN ADDITION TO THE ABOVE LOADS, TRUSSES SHALL BE DESIGNED FOR CONCENTRATED LOADS HUNG FROM OR SUPPORTED ON TRUSSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR LOADING INFORMATION AND LOCATION. LOADING AS REQUIRED BY OTHER SUBCONTRACTORS, SUCH AS FIRE PROTECTION, SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
- 11.8 ALL TEMPORARY AND PERMANENT BRACING MEMBERS AND CONNECTIONS REQUIRED FOR TRUSSES SHALL BE DETAILED ON THE TRUSS MANUFACTURER'S ERECTION PLANS. BRACING MEMBERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 11.9 TEMPORARY BRACING SHALL NOT IMPOSE ANY FORCE ON THE SUPPORTING STRUCTURE. PERMANENT BRACING FORCES SHALL BE TRANSFERRED TO THE ROOF DIAPHRAGM BY THE BRACING DESIGN PROVIDED BY THE TRUSS MANUFACTURER.

11.10 WELDED CONNECTIONS: E60XX ELECTRODES, MINIMUM SIZE FILLET WELD 1/8". WELDING QUALIFICATION, PROCEDURES, AND PERSONNEL SHALL BE CERTIFIED ACCORDING TO AWS D1.3, THE STRUCTURAL WELDING CODE - SHEET STEEL.

12.0 POST-INSTALLED REINFORCING, ANCHORS AND FASTENERS

12.1 POST-INSTALLED ANCHORS AND/OR REINFORCING SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS AND/OR REINFORCING IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS AND/OR REINFORCING.

12.2 THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND

EMBEDMENT SHALL BE SHOWN IN THE DETAILS. 12.3 FOR ANCHORING INTO CONCRETE:

- A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. PRE-APPROVED PRODUCTS INCLUDE:
- 1. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713 & IAPMO-UES ER-493)
- 2. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
- 3. SIMPSON STRONG-TIE "TITEN-HD ROD HANGER" (ICC-ES ESR-2713) 4. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-712) - FOR UNCRACKED CONCRETE
- 5. HILTI KWIK HUS-EZ (KH-EZ), KH-EZ CRC, KH-EZ SS316, KH-EZ C, KH-EZ E, KH-EZ-I, AND KH-EZ P SCREW ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM (ICC ESR-3027)
- 6. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-4266)
- 7. HILTI KWIK BOLT 1 EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND SI-AT-A22 TOOL WITH ADAPTIVE TORQUE FOR APPLICABLE SIZES (ICC ESR-678)
- 8. HILTI HDA UNDERCUT ANCHORS (ICC ESR 1546) 9. HILTI HSL-4 EXPANSION ANCHORS (ICC ESR 4386)
- 10.DEWALT SCREW-BOLT+ (ICC-ES ESR-3889)
- 11. DEWALT POWER-STUD+ SD2 (ICC-ES ESR-2502) 12. DEWALT POWER-STUD SD1 (ICC-ES ESR-2818)
- 13. DEWALT HANGERMATE+ (ICC-ES ESR-3889)
- 14. DEWALT CCU+ UNDERCUT (ICC-ES ESR-4810) 15.DEWALT POWER-BOLT+ (ICC-ES ESR-3260)
- B. MECHANICAL ANCHORS FOR USE IN THE UNDER SIDE OF NORMAL WEIGHT HOLLOW CORE AND POST TENSION SLAB WHERE EMBEDMENT DEPTH MUST NOT EXCEED ¾". PRE-APPROVED PRODUCTS INCLUDE:
- 1. DEWALT MINI-UNDERCUT+ (ICC-ES ESR-3912) 2. HILTI HDP-P TZ DROP-IN ANCHOR (ICC ESR-4236)

C. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS. SUCH AS HORIZONTAL TO UPWARD INCLINED ORIENTATION UNDER SUSTAINED TENSION LOADING, SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-19 26.7.2 & 26.7.2(e). INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-19 26.7.2 & 26.7.2(e). PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)

- 2. SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-263) 3. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
- 4. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-4868)
- 5. HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM WITH CONTINUOUSLY DEFORMED REBAR (ICC ESR-3814) 6. HILTI KWIK-X DUAL ACTION ANCHOR SAFESET SYSTEM WITH KHC CAPSULE ADHESIVE AND
- KWIK-HUS EZ (ICC ESR-5065) 7. DEWALT PURE110+ FOR WARM WEATHER/SLOW CURE (ICC-ES ESR-3298); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-3298
- 8. DEWALT AC200+ FOR COLD WEATHER/RAPID CURE (ICC-ES ESR-4027); FOR ANCHORS AND REBAR: WHEN DEWALT DUSTX+ EXTRACTION SYSTEM IS USED, TRADITIONAL HOLE CLEANING METHODS USING STEEL BRUSHES AND COMPRESSED DRY AIR MAY BE COMPLETELY OMITTED PER ICC-ES ESR-4027
- POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) 2. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138) 3. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269) 4. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024) 5. DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

12.4 FOR ANCHORING INTO MASONRY:

- A. SOLID-GROUTED CONCRETE MASONRY
- 1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
- a. SIMPSON STRONG-TIE "TITEN-HD" & "STAINLESS STEEL TITEN HD" (ICC-ES ESR-1056) b.SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240)
- c.SIMPSON STRONG-TIE "WEDGE-ALL" (ICC-ES ESR-1396)
- d.SIMPSON STRONG-TIE "TITEN TURBO" (IAMPO-UES ER-716) e.HILTI KH-EZ, KH-EZ CRC, KH-EZ SS316, KH-EZ C, AND KH-EZ P SCREW ANCHORS (ICC ESR-3056)
- f. HILTI KWIK BOLT-1 EXPANSION ANCHOR (ICC ER-677)
- g.HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR (ICC ESR-4561) h.DEWALT "SCREW-BOLT+" (ICC-ES ESR 4042)
- i.DEWALT "POWER-STUD+ SD1" (ICC-ES ESR 2966)

2. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:

a.SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281)

- b. SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265) C. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR d. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM
- (ICC ESR-4878) e.DEWALT AC100+ GOLD (ICC-ES ESR-3200)
- 3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

a.SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138) c. HILTI "UNIVERSAL KNURLED SHANK FASTENERS" X-U (ICC ESR-2269) d.DEWALT "TRAK-IT C5", GAS ACTUATED (ICC-ES-ESR 3275)

B. HOLLOW CONCRETE MASONRY

- 1. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
- a.SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056) b. SIMPSON STRONG-TIE "TITEN TURBO" (IAPMO-UES ER-716)
- 2. ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC58. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:
- a.SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265) b. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. c. DEWALT AC100+ GOLD (ICC-ES ESR-3200)

c.HILTI "DRYWALL TRACK FASTENERS" X-DW (ICC ESR-1663)

AC70. PRE-APPROVED PRODUCTS INCLUDE:

MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:

1. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3638)

ACCORDANCE WITH ICC-ES AC70. PRE-APPROVED PRODUCTS INCLUDE:

A. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811)

3. HILTI X-ENP 19 L15 PINS FOR BEAMS TF $\geq 1/4$ ".

E. DEWALT "TRAK-IT C5". GAS ACTUATED (ICC-ES-ESR 3275)

3. DEWALT "AC100+ GOLD" (ICC-ES ESR-4105)

C. HILTI FASTENERS IN LIEU OF #12 TEK SCREWS.

1/4"

AND PROOF LOAD REQUIREMENTS.

3. POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES

a. SIMPSON STRONG-TIE "GAS ACTUATED PINS" (ICC-ES ESR-2811) b. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)

UNREINFORCED BRICK MASONRY (URM): ADHESIVE FOR REBAR AND ANCHORS WITH SCREEN TUBES SHALL HAVE BEEN TESTED FOR USE IN ACCORDANCE WITH ICC-ES AC60. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE

2. HILTI HIT-HY 270 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT AND VACUUM (ICC ESR-4143); STEEL ANCHOR ELEMENT SHALL BE HILTI-HAS CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

12.5 FOR FASTENING INTO STEEL: POWER-ACTUATED FASTENERS SHALL HAVE BEEN TESTED IN

B. SIMPSON STRONG-TIE "POWDER ACTUATED PINS" (ICC-ES ESR-2138)

1. HILTI S-MD 12-24X1-5/8 HWH5 SCREWS FOR STUDS, JOISTS AND BEAMS 16 GA \leq TF \leq 2. HILTI X-HSN 24 PINS FOR JOISTS AND BEAM $1/8" \le TF \le 3/8"$

D. DEWALT "POWER DRIVEN FASTENERS", POWDER ACTUATED (ICC-ES-ESR 2024)

12.6 REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS

- 12.7 SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE LISTED MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW NO LESS THAN TWO WEEKS PRIOR TO BID. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE
- 12.8 INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), OR AS INCLUDED IN THE ANCHOR PACKAGING.

TEMPERATURE, AND INSTALLATION TEMPERATURE.

- 12.9 THERE IS TO BE NO GAP BETWEEN CONNECTED PARTS. UNLESS SHIMS ARE PROVIDED. ANCHORS ARE TO SECURE CONNECTED PARTS TOGETHER SNUGLY AND SECURELY.
- 12.10 OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE MANUFACTURER'S INSTRUCTIONS AND INSTALLER MUST BE ACI CERTIFIED
- 12.11 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
- 12.12 THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S SPECIAL INSPECTION AGENCY FOR CONTINUOUS SPECIAL INSPECTION OF ADHESIVE ANCHORS AND PERIODIC INSPECTION OF MECHANICAL ANCHORS, SEE SPECIAL INSPECTION SCHEDULE FOR ADDITIONAL INFORMATION.
- 12.13 ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- 12.14 EXISTING REINFORCING BARS AND/OR CONDUIT IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS AND/OR REINFORCING TO AVOID CONFLICTS WITH EXISTING REBAR AND/OR CONDUIT. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS BY GPR, X-RAY, HILTI PS 1000 X-SCAN, CHIPPING, OR OTHER MEANS.

13.0 ELEVATOR

- 13.1 CONTRACTOR PROVIDE W8x28 ELEVATOR HOIST BEAM WITH 3/8 x 7-5/8 x 7-5/8 BEARING PLATE EACH END. FASTEN BEARING PLATE TO CMU WITH (2) 5/8" DIAMETER J ANCHOR BOLTS. TOP OF HOIST BEAM TO BE (MINIMUM) 2" CLEAR FROM BOTTOM OF ROOF FRAMING. FILL CELLS UNDER BEARING FOR 32" MIN. DEPTH. POSITION AS REQUIRED BY ELEVATOR MANUFACTURER. COORDINATE ELEVATION WITH ELEVATOR RUN BY REQUIREMENT.
- 13.2 CONTRACTOR FILL ALL CELLS WITH GROUT OR CONCRETE AT ANY ELEVATOR ATTACHMENT POINT. COORDINATE EXACT LOCATIONS WITH ELEVATOR MANUFACTURER AND/OR SUPPLIER.
- 13.3 IF FRONT OF ELEVATOR SHAFT IS TO BE OMITTED AT BASE FOR ELEVATOR INSTALLATION, CONTRACTOR PROVIDE (MINIMUM) 32" DEEP BOND BEAM REINFORCED WITH 4 LAYERS OF 2#7 CONTINUOUS AND #4 TIES @8 WITH 180 DEGREE HOOK AT EACH END OF THE TIES. ALTERNATE TIE DIRECTION.
- 13.4 ANY ADDITIONAL STEEL REQUIRED FOR ELEVATOR INSTALLATION (SAFETY BEAMS, CLIPS, EMBEDS, ETC.) SHALL BE PROVIDED BY THE ELEVATOR MANUFACTURER AND INCLUDED IN THEIR ORIGINAL PRICE TO THE CONTRACTOR. CONTRACTOR COORDINATE INSTALLATION WITH ELEVATOR MANUFACTURER.
- 13.5 CONTRACTOR COORDINATE HOIST BEAM [AND SEPARATOR BEAM] ELEVATION WITH ELEVATOR MANUFACTURER.

14.0 PREFABRICATED CANOPY

14.1 PREFABRICATED CANOPIES SHALL BE CONSIDERED A DEFERRED SUBMITTAL TO THE BUILDING INSPECTION AGENCY.

- 14.2 PREFABRICATED CANOPIES SHALL BE FULLY ENGINEERED BY THE SYSTEM MANUFACTURER AND CONTRACTOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 14.3 CALCULATIONS SHALL ACCOMPANY THE SHOP DRAWINGS AND SHALL INCLUDE DESIGN OF ALL WALKWAY/CANOPY SYSTEM COMPONENTS INCLUDING, BUT NOT LIMITED TO, FOOTINGS, MEMBERS, CONNECTIONS AND ATTACHMENT TO STRUCTURE.
- 14.4 PREFABRICATED CANOPY SHOP DRAWINGS SHALL BE SUBMITTED TO INCLUDE A FULL DESCRIPTION OF ALL SYSTEM MEMBERS, INCLUDING COLUMNS, BEAMS, FOOTINGS, FASCIA, ETC. SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 14.5 PREFABRICATED CANOPIES SHALL BE ATTACHED TO BUILDING, MINIMUM 16" DEEP BOND BEAM IS TO BE PROVIDED WITHIN THE LOAD-BEARING MASONRY WALL FOR WALKWAY/CANOPY ANCHORAGE AS REQUIRED. MINIMUM 16" DEEP BOND BEAM IS TO BE CONSTRUCTED ON (2) 8" DEEP FORM BLOCKS WITH 2#5 CONTINUOUS IN EACH COURSE. CONNECTIONS TO BUILDING BY SYSTEM MANUFACTURER, CONTRACTOR COORDINATE. DO NOT ANCHOR WALKWAY/CANOPY TO VENEER. ANCHOR WALKWAY/CANOPY INTO LOAD-BEARING MASONRY WALL WITH THREADED RODS IN PIPE SLEEVES. FOR ADDITIONAL INFORMATION, SEE ARCHITECTURAL DRAWINGS.

SDG STRUCTURAL DESIGN GROU 300 Chase Park South, Suite 125 Hoover, AL 35244 tel 205-824-5200 fax 205-824-5280 Job Number 24-088







SHEET TITLE:

GENERAL NOTES CONTINUED
DRAWN: ABS
DATE: JUNE 28, 2024
REVISIONS





SDG STRUCTURAL DESIGN GROUP 300 Chase Park South, Suite 125

	LINTEL DIMENSIONS AND REINFORCING										
	8" W	ALL	12" WALL								
EPTH	REINFORCING	MAX HEIGHT OF WALL ABOVE LINTEL	REINFORCING	MAX HEIGHT OF WALL ABOVE LINTEL							
8	1#4 BOT	20'-0"	1#4 BOT	22'-0"							
8	1#4 BOT	10'-0"	2 # 4 BOT	9'-4"							
8	1#5 BOT & 1#4 TOP	4'-0"	2#5 BOT & 2#4 TOP	4'-8"							
16	1#6 BOT & 1#5 TOP	15'-4"	2#5 BOT & 2#4 TOP	16'-0"							
16	1#7 BOT & 1#5 TOP	10'-0"	2#6 BOT & 2#4 TOP	12'-0"							
16	1#8 BOT & 1#5 TOP	7'-4"	2#7 BOT & 2#5 TOP	10'-8"							



- 3/4"Ø HILTI KWIK HUS-EZ SCREW ANCHORS (6 1/4" HORIZONTAL SLOTS. ANCHORS TO BE INSTALLED 6"



1"











3. EXTEND VERTICALS FULL HEIGHT OF WALL, UNLESS NOTED.

PIPING WEIGHTS										
PIPE DIAMETER	PIPE WT PER/FOOT (PLF)	FLUID WT PER/FOOT (PLF)	INSULATION & HANGERS (PLF)	TOTAL WT PER/FOOT (PLF)						
4"	10.80	6.10	2.00	18.90						
6"	19.00	13.80	3.00	35.80						
8"	28.60	23.90	4.00	56.50						
10"	40.50	37.50	4.00	82.00						
12"	49.60	54.00	5.00	108.60						
14"	54.60	65.70	5.00	125.30						
16"	62.60	87.10	5.00	154.70						
NOTES:										

FROM ANVIL INTERNATIONAL PIPE FITTERS HANDBOOK.

ALL PIPES ASSUMED TO BE SCHEDULE 40.

 FLUID WEIGHT INCLUDES ALLOWANCE FOR GLYCOL CONCENTRATION.
 PIPING SUPPORT AND THRUST BRACING REQUIREMENTS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE

STEEL/JOIST FABRICATOR. SEE MECHANICAL/PLUMBING DRAWINGS FOR PIPING SUPPORT AND THRUST BRACING REQUIREMENTS.

5. FOR PIPE SIZES NOT LISTED, CONTACT STRUCTURAL ENGINEER.

TENSION LAP SPLICE LENGTHS

		f _C = 3000 PSI			f _C = 4000 PSI				
BAR SIZE	TOP BARS		OTHER	BARS	TOP I	BARS	OTHER BARS		
	Α	В	A	В	Α	В	A	A B 15" 19" 19" 25"	
# 3	22"	28"	17"	22"	19"	24"	15"	19"	
#4	29"	37"	22"	29"	25 "	32"	19"	25"	
# 5	36"	47"	28"	36"	31"	40"	24"	31"	
# 6	43"	56"	33"	43"	37"	48"	29"	37"	
# 7	63"	81"	48"	63"	54"	70"	42"	54"	
# 8	72"	93"	55"	72"	62 "	80"	48"	62"	
# 9	81"	105"	62"	81"	70"	91"	54"	70"	
# 10	91"	118"	70"	91"	79"	102"	61"	79"	
#11	101"	131"	78"	101"	87"	113"	67"	87"	

NOTES:

1. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN

12" OF CONCRETE CAST BELOW THE REINFORCEMENT.
 2. FOR TENSION LAP SPLICE LENGTHS FOR 3500 PSI CONCRETE, USE LENGTHS DESIGNATED FOR 3000 PSI CONCRETE.

COMPONENTS AND CLADDING WIND LOADS FOR ROOF (PSF)

114 MPH VELOCITY (3-SEC. GUST)		ROOF			OVERHANG						
H = 31'-0'' 4:12 Roof Slope	EFFECTIVE WIND AREA (FT ²)	Positive Max. Net Pressure 'p' (PSF)	Zone 1 & 2e (Int.) (PSF)	Zone 2n, 2r, & 3e (Edge) (PSF)	Zone 3r (Corner) (PSF)		Zone 1 & 2e (Int) - Max. Net Pressure 'p' (PSF)	Zone 2n & 2r (Edge) - Max. Net Pressure 'p' (PSF)	Zone 3e (Corner) - Max. Net Pressure 'p' (PSF)	Zone 3r (Corner) - Max. Net Pressure 'p' (PSF)	
	10	23.5	-71.7	-104.6	-124.4		-82.3	-115.2	-134.9	-154.6	
	20	21.2	-71.7	-90.5	-106.5		-82.3	-104.5	-116.5	-130.9	
	50	18.1	-43.6	-71.7	-83.0		-63.5	-90.5	-92.1	-99.5	
	100	16.0	-22.4	-57.6	-65.1		-49.4	-79.9	-73.7	-75.7	
	200	16.0	-22.4	-43.4	-65.1		-49.4	-69.2	-55.3	-75.7	
	500	16.0	-22.4	-38.8	-65.1		-49.4	-65.8	-49.4	-75.7	
NOTES											

1. WIDTH OF EDGE STRIP 'a' = 5'-5".

2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE. 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD

AND AWAY FROM THE BUILDING SURFACES. 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN

EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.

5. HOLLOW CORE MANUFACTURER IS TO DESIGN SLAB PANELS FOR DEAD LOADS, LIVE LOADS, AND WIND LOADS (DOWNWARD AND UPLIFT) AS INDICATED IN GENERAL NOTES, TYPICAL DETAILS, PLAN NOTES, AND SECTION NOTES, IN ADDITION TO 20 PSF COLLATERAL LOAD AND SELF-WEIGHTS.

6. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.





FLAT ROOFS









	COMPONENTS AND CLADDING WIND LOADS FOR WALLS (PSF)						
		EFFECTIVE	114 MPH \	XCONES 4 (Int.) ZONES 4 (Edge -42.1 -52.0 -40.3 -48.5 -38.0 -43.9 -36.3 -40.4 -34.5 -36.9	EC.GUST)		
	H = 31'-0'' 4:12 Roof Slope	WIND AREA (FT ²)	ZONES 4 & 5	ZONES 4 (Int.)	ZONES5 (Edge)		
		10	38.8	-42.1	-52.0		
		20	37.1	-40.3	-48.5		
		50	34.8	-38.0	-43.9		
		100	33.0	-36.3	-40.4		
		200	31.3	-34.5	-36.9		
		500	29.0	-32.2	-32.2		

NOTES:

- 1. WIDTH OF EDGE STRIP 'a' = 5'-5".
- 2. VALUES SHOWN ABOVE HAVE BEEN ADJUSTED FOR BUILDING HEIGHT AND EXPOSURE ACCORDING TO ASCE 7-16 STANDARD
- TABLE 30.3-1. VALUES SHOWN ARE ULTIMATE. 3. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD
- AND AWAY FROM THE BUILDING SURFACES. 4. EFFECTIVE WIND AREA IS THE SPAN LENGTH MULTIPLIED BY AN EFFECTIVE WIDTH THAT NEED NOT BE LESS THAN ONE-THIRD THE SPAN LENGTH.
- 5. WIND PRESSURES IN THESE TABLES SHALL BE MULTIPLIED BY 0.6 TO OBTAIN NOMINAL WIND PRESSURES.





TYPICAL







SHEET TITLE:	
PROJ. MGR.:	HCW
DRAWN:	ABS
DATE: JUNE 28,	2024
REVISIONS	
[
JOB NO. 23-125	
SHEET NO:	
	/

1"

6 OF16





FOUNDATION PLAN

- 1/8"=1'-0"
- FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED.
- TOP OF FOOTING ELEVATION -2'-0", UNLESS NOTED.
- FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
 FOR SLAB RECESS, SLOPES TO DRAINS AND RAMP LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS.
 FOOTING STEP LOCATIONS SHOWN ARE APPROXIMATE. GENERAL CONTRACTOR COORDINATE LOCATION OF ALL FOOTING STEPS WITH THE LATEST CIVIL, PLUMBING AND UTILITY DRAWINGS. SEE FOOTING STEP DETAIL ON S1.2.
- FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION.
 "MC" INDICATES MASONRY COLUMN. SEE SHEET S1.4 FOR ADDITIONAL INFORMATION.
- 9. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.
- 10. FOR LOAD BEARING AND NON-LOAD BEARING CMU WALL PLAN DIMENSIONS AS WELL AS OTHER PLAN DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.
- "F4.0" INDICATES 4'-0"x4'-0"x1'-0" SPREAD FOOTING WITH 4#5 EW BOTTOM REINFORCING.
 "F6.0" INDICATES 6'-0"x6'-0"x1'-6" SPREAD FOOTING WITH 6#5 EW TOP AND BOTTOM REINFORCING.







- DRAWINGS FOR ALL NECESSARY METAL STUD FRAMING DESIGNS.



1"






SEE DETAILS ON S1.3





PAVILION FOUNDATION PLAN

1/4"=1'-0"

- FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", SEE CIVIL DRAWINGS.
- TOP OF FOOTING ELEVATION -2'-0'' BELOW FINISH FLOOR, UNLESS NOTED.
- FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS.
- FOR SLAB RECESS AND SLOPE LOCATIONS, SEE ARCHITECTURAL DRAWINGS. 5. C1 INDICATES HSS 8x8x3/8 COLUMN WITH 3/4x12x12 BASE PLATE. ANCHOR BASE PLATE
- TO FOOTING WITH (4) 3/4" ANCHOR RODS WITH 12" EMBEDMENT.
- 6. F4.0 INDICATES 4'-0"x4'-0"x1'-6" DEEP SPREAD FOOTING CENTERED UNDER PIER.
- REINFORCE WITH 4#5 EACH WAY TOP AND BOTTOM. 7. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. FOR PAVEMENT AND
- HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL DRAWINGS.



\$3.6





DUGOUT FOUNDATION PLAN

1/4"=1'-0"

DRAWINGS.

- FINISH FLOOR (TOP OF SLAB) ELEVATION 0'-0", UNLESS NOTED. SEE CIVIL DRAWINGS.
- TOP OF FOOTING ELEVATION 0'-0" BELOW FINISH FLOOR, UNLESS NOTED.
- FOR SLAB ON GRADE CONSTRUCTION, SEE GENERAL NOTES AND TYPICAL DETAILS. FOR SLAB RECESS AND SLOPE LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS. FOOTING STEP LOCATIONS SHOWN ARE APPROXIMATE. GENERAL CONTRACTOR COORDINATE 6. LOCATION OF ALL FOOTING STEPS WITH THE LATEST CIVIL, PLUMBING AND UTILITY DRAWINGS. SEE FOOTING STEP DETAIL ON S1.2.
- 7. FOOTING WIDTHS INDICATED ON PLAN MAY OR MAY NOT BE TO SCALE. COORDINATE WITH SECTION CUTS FOR FOOTING WIDTHS AND ADDITIONAL INFORMATION. 8. FOR PAVEMENT AND HARDSCAPE INFORMATION, SEE ARCHITECTURAL DRAWINGS AND CIVIL

ON MASONRY WALL REINFORCING AT CORNERS AND INTERSECTIONS, SEE DETAILS ON S1.3







- ROOF SYSTEM: PREFABRICATED WOOD ROOF TRUSSES AT 24". SEE GENERAL NOTES. ROOF SHEATHING: 3/4" PLYWOOD, SEE GENERAL NOTES. 4. TRUSS BEARING ELEVATION 10'-3" ABOVE FINISHED FLOOR, UNLESS NOTED. TRUSSES BEAR ON ALL WALLS AND BEAMS AS SHOWN. POSITION TRUSSES TO AVOID HVAC UNITS AND DUCTS. FOR DIMENSIONS, SEE FOUNDATION AND ARCHITECTURAL DRAWINGS. DETAILS SHOWN ARE TYPICAL FOR THE ENTIRE BUILDING. 9. TRUSS MANUFACTURER TO PROVIDE ALL VENT CLOSURE PLATES SUCH AS RIDGE AND VALLEY PLATES. 10. BLOCKING TRUSS/PLATE SHALL BE LOCATED AS SHOWN ON PLAN. TRUSS/PLATE SHALL
- BE DESIGNED BY TRUSS MANUFACTURER TO TRANSFER 2100 LBS (SERVICE) OF FORCE DOWN TO TOP OF WALL. SEE DETAIL ON S1.4. ANCHOR TOP CHORD OF BLOCKING TRUSS TO ROOF DECK AS DIRECTED BY TRUSS MANUFACTURER TO TRANSFER 125 LBS/FT (SERVICE) SHEAR FORCE. 11. HANGER LOCATIONS FOR PIPING LARGER THAN 3" IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE TRUSS MANUFACTURER. FOR PIPING WEIGHTS, SEE TYPICAL DETAIL ON S1.5.
- 12. BLOCKING TRUSSES/PLATES, BRIDGING, PERMANENT BRACING, MISC STEEL CLOSURE PLATE, ETC. SHALL BE DESIGNED AND INDICATED ON THE TRUSS LAYOUT SHOP DRAWINGS. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES. 13. CONTRACTOR NOTE: ALL MECHANICAL OPENING SIZES AND LOCATIONS IN LOAD BEARING MASONRY WALLS SHALL BE COORDINATED BY THE CONTRACTOR AND INDICATED ON THE MASONRY WALL REINFORCING SHOP DRAWINGS.

SDG STRUCTURAL DESIGN GROUP 300 Chase Park South, Suite 125 Hoover, AL 35244 tel 205-824-5200 fax 205-824-5280 Job Number 24-088



PAVILION ROOF FRAMING PLAN

- TOP OF BEAM ELEVATION 10'-0" ABOVE FINISHED MAIN FLOOR, UNLESS NOTED. ROOF SYSTEM: PREFABRICATED WOOD ROOF TRUSSES AT 24". SEE GENERAL NOTES. ROOF SHEATHING: 3/4" PLYWOOD, SEE GENERAL NOTES.
- TRUSS BEARING ELEVATION 10'-0" ABOVE FINISHED FLOOR, UNLESS NOTED. TRUSSES BEAR ON ALL BEAMS AS SHOWN.
- FOR DIMENSIONS, SEE FOUNDATION AND ARCHITECTURAL DRAWINGS.
- 7. BLOCKING TRUSSES/PLATES, BRIDGING, PERMANENT BRACING, MISC STEEL CLOSURE PLATE, ETC. SHALL BE DESIGNED AND INDICATED ON THE TRUSS LAYOUT SHOP DRAWINGS. FOR ADDITIONAL INFORMATION, SEE GENERAL NOTES.
- 8. BLOCKING TRUSS/PLATE SHALL BE LOCATED AS SHOWN ON PLAN. TRUSS/PLATE SHALL BE DESIGNED BY TRUSS MANUFACTURER TO TRANSFER 2100 LBS (SERVICE) OF FORCE DOWN TO TOP OF BEAM. SEE DETAIL ON S1.4. ANCHOR TOP CHORD OF BLOCKING TRUSS TO ROOF DECK AS DIRECTED BY TRUSS MANUFACTURER TO TRANSFER 125 LBS/FT (SERVICE) SHEAR FORCE.
- 9. PROVIDE H10 HOLD DOWN AT ALL GIRDER TRUSS TO BEAM CONNECTIONS POINTS.

DUGOUT ROOF FRAMING PLAN

TOP OF CMU ELEVATION 10'-0" ABOVE FINISHED MAIN FLOOR, UNLESS NOTED.







SECTION (3) 3/4"=1'-0"

















- EXPENSE. MAINTAIN MINIMUM STAIR WELL EGRESS CLEARANCE.

- INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC..
- BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.

FIF	RE SPRINKLER LEG
↔	CONNECT TO EXISTING PIPING FIELD VERIFY LOCATION OF ALL
—— F ——	EXISTING FIRE PROTECTION PIPING FIELD VERIFY EXACT LOCAT
	NEW FIRE PROTECTION PIPING
FDV	FIRE DEPARTMENT VALVE
ki	CONTROL VALVE
	SPRINKLER ZONE DIVISION















ZONE NO. ZONE SQ. FT. SYSTEM	TYPE
1 21,958 WET	Г

FIRE	SPRINK
SHEET NO.	
SP1.1	LOWER LEVEL FIRE SPRIN
SP2.1	FIRE SPRINKLER PLUMBING



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



STAIR



PLUMBING	NOTES
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1.	THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, AND CONTROLS COMPLETELY COORDINATED WITH ALL TRADES. ALL REQUIREMENTS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE	MARK NO.	FIXT
	WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.	WC-1	WATER FLUSH WATER
2.	COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, HVAC, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC., TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCTWORK, LIGHTS, CONDUIT, ETC.	WC-1A	FLUSH ADA
3.	FIELD VERIFY EXACT SIZE, MATERIAL, AND LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK.	U-1	URINAL WALL N
4. 5.	VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ENGINEER AND ARCHITECT.	U-1A	URINAL WALL I
6.	COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. SET SLEEVES IN FLOORS/WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.	L-1	LAVATO 20"X18
7.	PROVIDE 12"X12" ACCESS PANEL FOR SHOCK ABSORBERS, TRAP PRIMERS, AND ALL VALVES LOCATED ABOVE NON- ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.	L-1A	LAVATO ADA 20
8.	ALL PIPING SHALL BE CONCEALED INSIDE WALLS, WITHIN PIPE CHASES, OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE.	L-2A	LAVATC ADA 20
9.	COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, AND OTHER STRUCTURAL CONDITIONS.	SS-1	SERVIC 24 X
10	D. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT INDICATED ON DRAWINGS FINAL CONNECTION SHALL INCLUDE ANY ADAPTORS, NIPPLES, SHUT-OFF VALVES, PRV'S, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, REGULATORS, ETC.	S-1	STAINL SINGLE COMPA
11	. ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCK OUTS, ETC.) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.	S-2	STAINL TWO C
12	2. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL DOMESTIC WATER AND SANITARY SEWERS, UNLESS OTHERWISE NOTED.	S-3	STAINL TWO C
13	ALL PLUMBING COMPONENTS TO BE LEAD-FREE.	S_1	STAINL
	WALL HUNG LAVATORY, WITH TRUEBRO LAV, SHIELD (OR APPROVED EQUAL). THIS APPLIES TO ALL ADA LAVS, LAVS WITH MIXING VALVES MOUNTED BELOW LAV, AND ALL LAVS THAT INCLUDE INSTANTANEOUS ELECTRIC WATER HEATERS MOUNTED BELOW LAVS. LAV GUARD SHALL INCLUDE STAINLESS STEEL TAMPER RESISTANT SCREWS. LAV-SHIELD SHALL RE OPDERED TO MATCH SPECIFIED (APPROVED LAVATORY)	HS-1	KITCHE
15	5. HORIZONTAL DRAINAGE PIPING OF 2–1/2" DIAMETER OR LESS SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4" PER FOOT. PIPING 3" AND LARGER SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8" PER FOOT.	SH-1A	SHOWE BUILT-
16	5. SET FLOOR DRAIN ELEVATION DEPRESSED BELOW FINISHED SLAB ELEVATION AS LISTED BELOW TO PROVIDE PROPER FLOOR SLOPE TO DRAIN: 5 FOOT DRAIN RADIUS : 1/2" DEPRESSION	SH-2	SHOWI BUILT-
	10 FOOT DRAIN RADIUS : 3/4" DEPRESSION 15 FOOT DRAIN RADIUS : 1" DEPRESSION 20 FOOT DRAIN RADIUS : 1-1/4" DEPRESSION 25 FOOT DRAIN RADIUS : 1-1/2" DEPRESSION	SH-3A	SHOWE BUILT- ADA
17	23 FOOT DRAIN RADIOS , T=722 DEFRESSION . ALL TRAP ARMS, P-TRAPS, ETC. EXPOSED UNDER LAVATORIES SHALL BE 18. GA. CHROME PLATED.	EQUALS	S BY ELJI
18	B. ABOVE GROUND DRAINAGE AND VENT PIPING LOCATED WITHIN FIRE RATED WALLS SHALL BE COPPER PIPE IN ACCORDANCE WITH STANDARDS ASTM B42 AND B302 OR CAST IRON PIPE IN ACCORDANCE WITH STANDARDS ASTM A 74; ASTM A 888; CISPI 301. COORDINATE WITH ARCHITECTURAL LIFE SAFETY PLANS FOR EXACT LOCATION OF ALL FIRE WALLS.		
19	D. COORDINATE ALL FLOOR SINK GRATE ORIENTATIONS AND REQUIRED OPEN SPACES (1/2 GRATE, 3/4 GRATE, ETC.) WITH ARCHITECT, AND/OR ENGINEER.		
20	D. ALL CONDENSATE DRAIN PIPING LOCATED WITHIN RETURN AIR PLENUM, SHALL BE TYPE "L" COPPER. ALL COPPER PIPING MUST BE INSULATED WITH 1/2" ARMAFLEX OR APPROVED EQUAL. PIPING CAN ALSO BE SCHEDULE 40 CPVC. ALL CONDENSATE DRAIN PIPING THAT IS NOT LOCATED WITHIN RETURN AIR PLENUM MAY BE SCHEDULE 40 PVC WITH 1/2" ARMAFLEX INSULATION (OR APPROVED EQUAL). INSULATION SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. COORDINATE WITH HVAC PLAN FOR REQUIREMENT AND LOCATION OF AIR PLENUM(S).	MARK NO.	FIX
2 [.]	. INSTALL ANGLE COVER OVER CONDENSATE LINES, SPRINKLER LINES, ETC. THAT CROSS MEZZANINE/MECH ROOM FLOOR WHERE TRIPPING MIGHT BE A HAZARD. PRIME AND PAINT ANGLE COVER SAFETY YELLOW COLOR.	FD-1	FLOOF
22	2. VERIFY ORIENTATION OF FLUSHING MECHANISM ON TOILET/URINAL WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.	ED 2	FLOOF
23	3. PROVIDE WATER PRESSURE REDUCING/REGULATING VALVE ON MAIN SERVICE WHEN MAIN PRESSURE EXCEEDS 75 PSI AT ANY TIME OF DAY. COORDINATE WITH LOCAL UTILITY.	FD=2	(SHOV
24	PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER AT ALL CONNECTIONS TO MECHANICAL EQUIPMENT. KITCHEN AND LAUNDRY EQUIPMENT, ETC., AS REQUIRED BY CODE AND BY LOCAL AUTHORITY. CONTRACTOR IS TO VERIFY WITH THE LOCAL AUTHORITY THE TYPE OF BACKFLOW PREVENTION DEVICE REQUIRED FOR ALL APPLICATIONS PRIOR TO	FS-1	FLOOF (KITCI
25	5. ALL OVERHEAD WATER PIPING SHALL BE INSTALLED BELOW CEILING INSULATION.	HD-1	HUB
26	5. INSTALL BACKFLOW PREVENTION IN ACCORDANCE WITH CITY AND STATE REQUIREMENTS. INSTALL ON MAIN DOMESTIC WATER SERVICE TO THE BUILDING.	HD-1	HUB
27	7. CONTRACTOR SHALL INSTALL WATER HAMMER ARRESTER EQUAL TO ZURN SERIES 1700 AT EACH PLUMBING GROUP.	CWD-1	COMM WASH
28 29	3. CONTRACTOR TO FURNISH AND INSTALL ANTI-SIPHON VALVE ON EACH WATER HEATER.	1	DECK
30	D. TRAP PRIMERS TO BE PRECISION PLUMBING PRODUCTS MODEL NO. PO-500 WITH A6-500 AIR GAPS OR APPROVED EQUAL. DISTRIBUTION CUP (DU-4) ABOVE CEILING OR BEHIND ACCESS PANEL FOR UP TO FOUR FLOOR DRAINS.	WH-1	WALL
3'	. WATER HEATERS SHALL INCLUDE HEAT TRAP FITTING ON INLET AND OUTLET WATER CONNECTIONS.		
32 33	2. ALL STOPS/SUPPLIES SHALL BE CHROME PLATED BRASS.	PH-1	POST
34	CODE.	HB-1	HOSE
35	5. PROVIDE INSULATING UNION BETWEEN ABOVE AND BELOW GROUND GAS PIPING.	WB-1	ICEMA WALLE
36	54. LABEL ALL 2 PSIG GAS PIPING IN ACCORDANCE WITH ANSI/ASME A13.1-2020, 2015 INTERNATIONAL CODES & NFPA 54.	WB-2	WASH WALLE
	A FURNICULAND INSTALL OAS DESCURE REQUINTING (REDUCING VALVES WITH LEAK LIMITING DEVICE AT FACIL ARRUNANCE		
37	WHERE REGULATORS ARE NOT SELF-LIMITING TYPE, VENTS SHALL BE EXTENDED TO THE BUILDING EXTERIOR.	F.C.O.	FLOOF
37	WHERE REGULATORS ARE NOT SELF-LIMITING TYPE, VENTS SHALL BE EXTENDED TO THE BUILDING EXTERIOR. 3. UNDERGROUND GAS PIPING TO BE ASTM D 2513, POLYETHYLENE, DR 11 OR DR 11.5. REFERENCE GAS PLUMBING PLAN FOR PRESSURE OF UNDERGROUND GAS PIPING.	F.C.O. W.C.O.	FLOOF WALL
37 38 39	 WHERE REGULATORS ARE NOT SELF-LIMITING TYPE, VENTS SHALL BE EXTENDED TO THE BUILDING EXTERIOR. UNDERGROUND GAS PIPING TO BE ASTM D 2513, POLYETHYLENE, DR 11 OR DR 11.5. REFERENCE GAS PLUMBING PLAN FOR PRESSURE OF UNDERGROUND GAS PIPING. FURNISH AND INSTALL STEEL RISER TO A MINIMUM DEPTH OF 36" BELOW GRADE AT ALL LOCATIONS WHERE PE GAS PIPING RISES ABOVE GRADE. 	F.C.O. W.C.O. W.H.A.	FLOOF WALL WATEF ARRES

PLUMBING SCHEDULES, LEGEND, AND NOTES NOT TO SCALE

	PLUMBI	NGI	EQI	JIP	ME	NT	SC	HEDULE
FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	NOTES
WATER CLOSET FLUSH VALVE	ZURN MODEL NO. Z5655 OR APPROVED EQUAL	FLOOR	15" TO RIM	4"	2"	1 1/4"	_	WHITE ELONGATED VITREOUS CHINA, FLUSH VALVE WALL SUPPORT, WHITE OPEN FRONT SOLID PLASTIC SEAT, BOLT CAPS 12" ROUGH-IN, ZURN Z6000AV-YJ FLUSH VALVE
WATER CLOSET FLUSH VALVE ADA	ZURN MODEL NO. Z5665 OR APPROVED EQUAL	FLOOR	16-1/8" TO RIM	4"	2"	1 1/4"	_	WHITE ELONGATED VITREOUS CHINA, FLUSH VALVE WALL SUPPORT, WHITE OPEN FRONT SOLID PLASTIC SEAT, BOLT CAPS. HCP. 12" ROUGH-IN, ZURN Z6000AV-YJ FLUSH VALVE
URINAL STANDARD WALL MOUNTED	ZURN MODEL NO. Z5755 OR APPROVED EQUAL	WALL	24" TO LIP	2"	1-1/4"	1"	_	WHITE VITREOUS CHINA, ZURN Z6003AV—YJ FLUSH VALVE, BOLT CAPS, WALL HANGER, 1 GAL. VERSION
URINAL ADA WALL MOUNTED	ZURN MODEL NO. Z5755 OR APPROVED EQUAL	WALL	17" TO LIP	2"	1-1/4"	1"	_	WHITE VITREOUS CHINA, ZURN Z6003AV—YJ FLUSH VALVE, BOLT CAPS, WALL HANGER, 1 GAL. VERSION
LAVATORY 20"X18"	ZURN MODEL NO. Z5344 OR APPROVED EQUAL	WALL	31" TO LIP	1-1/4"	1-1/4"	1/2"	1/2"	WHITE VITREOUS CHINA, OPEN GRID STRAINER, DELTA MODEL 501–DST FAUCET, W/ 0.5 GPM AERATOR; P–TRAP W/ CLEANOUT; CONCEALED ARM CARRIER; SUPPLIES W/ STOPS
LAVATORY, ADA 20"X18"	ZURN MODEL NO. Z5344 OR APPROVED EQUAL	WALL	34" TO LIP	1-1/4"	1-1/4"	1/2"	1/2"	WHITE VITREOUS CHINA, OPEN GRID STRAINER, DELTA MODEL 501–DST FAUCET, W/ 0.5 GPM AERATOR; P–TRAP W/ CLEANOUT; CONCEALED ARM CARRIER; SUPPLIES W/ STOPS
LAVATORY, ADA 20"X17"	ZURN MODEL NO. Z5114 OR APPROVED EQUAL	CABINET	-	1-1/4"	1-1/4"	1/2"	1/2"	WHITE VITREOUS CHINA, OPEN GRID STRAINER, DELTA MODEL NO. 501–DST FAUCET, W/ 0.5 GPM AERATOR, P–TRAP W/ CLEANOUT, SUPPLIES W/ STOPS
SERVICE SINK 24 X 24	FIAT MODEL NO. MSB–2424 OR APPROVED EQUAL	FLOOR	SEE DETAIL	3"	2"	1/2"	1/2"	MOLDED-STONE, DELTA NO. 28C2383, 3" IPS STRAINER, POLISHED CHROME FAUCET WITH VACUUM BREAKER, HOSE/ WALL BRACKET, MOP HANGER
STAINLESS SINK SINGLE COMPARTMENT	ELKAY MODEL NO. LR2219 OR APPROVED EQUAL	CABINET	-	1-1/2"	1-1/4"	1/2"	1/2"	ELKAY MODEL NO. LK–335 STRAINER, DELTA MODEL 100LF–HDF (1.5 GPM) FAUCET, SUPPLIES WITH STOPS, P–TRAP WITH CLEANOUT.
STAINLESS SINK TWO COMPARTMENT	ELKAY MODEL NO. 2C18X18–0 OR APPROVED EQUAL	CABINET	-	1-1/2"	1-1/4"	1/2"	1/2"	16 GAUGE STAINLESS STEEL, T&S MODEL NO. B-0291 FAUCET; JUST MFG. NO. J-76-S CONNECTED WASTE ASSEMBLY; WATER SUPPLIES WITH STOPS
STAINLESS SINK TWO COMPARTMENT	ELKAY MODEL NO. LR4322 OR APPROVED EQUAL	CABINET	-	1-1/2"	1-1/4"	1/2"	1/2"	ELKAY MODEL NO. LK–335 STRAINER, DELTA MODEL 100LF–HDF (1.5 GPM) FAUCET, SUPPLIES WITH STOPS, P–TRAP WITH CLEANOUT, 8" BOWL DEPTH
STAINLESS SINK THREE COMPARTMENT	ELKAY MODEL NO. LR632210 OR APPROVED EQUAL	CABINET	-	1-1/2"	1-1/4"	1/2"	1/2"	16 GAUGE STAINLESS STEEL, T&S MODEL NO. B-0133-A12-B08C FAUCET W/ PRE-RINSE SPRAY; (3) JUST MFG. NO. J-25-BLA-1-1/2 TWIST HANDLE DRAIN; JUST MFG. NO. J-76-S CONNECTED WASTE ASSEMBLY; WATER SUPPLIES WITH STOPS
KITCHEN HANDWASH SINK	ADVANCE TABCO MODLE NO. 7–PS–60 OR APPROVED EQUAL	WALL	-	1-1/2"	1-1/2"	1/2"	1/2"	STAINLESS STEEL, KEYHOLE WALL MOUNT BRACKET, 4" O.C. GOOSENECK FAUCET WITH AERATOR, SINK BOWL IS 10"X14"X5"
SHOWER BUILT-IN, ADA	BUILT–IN OR APPROVED EQUAL	FLOOR	_	2"	2"	1/2"	1/2"	DELTA MODEL T17TH335 WITH PRESSURE BALANCED MULTI CHOICE MIXING VALVE; ZURN MODEL ZN-415 5" DIA. NICKEL BRONZE SHOWER DRAIN
SHOWER BUILT-IN	BUILT–IN OR APPROVED EQUAL	FLOOR	_	2"	2"	1/2"	1/2"	DELTA MODEL T13291 VALVE W/ DELTA NO. RP38357 SHOWER HEAD ZURN MODEL ZN—415 5" DIA. NICKEL BRONZE SHOWER DRAIN
SHOWER BUILT-IN, ADA	BUILT-IN OR APPROVED EQUAL	FLOOR	-	2"	2"	1/2"	1/2"	DELTA MODEL T17TH335 WITH PRESSURE BALANCED MULTI CHOICE MIXING VALVE; ZURN MODEL ZN-415 5" DIA. NICKEL BRONZE SHOWER DRAIN

EQUALS BY ELJER, KOHLER, TOTO, AND AMERICAN STANDARD WILL BE ACCEPTE

PLUMBING SPECIALITY SCHEDULE

MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	MIXED WATER SIZE	NOTES
FD—1	FLOOR DRAIN	ZURN MODEL NO. ZN-415B-P OR APPROVED EQUAL	FLOOR	-	4"	2"	1/2"	_	_	5" DIA. NICKEL BRONZE ADJUSTABLE TOP 1/2" TRAP PRIMER W/ PROSET SYSTEM INC. TG34IP RETROFIT TRAP GUARD
-D-2	FLOOR DRAIN (SHOWER)	ZURN MODEL NO. ZN-415-B OR APPROVED EQUAL	FLOOR	-	2"	2"	-	-	_	5" DIA. NICKEL BRONZE ADJUSTABLE TOP
FS-1	FLOOR SINK (KITCHEN)	ZURN MODEL NO. ZN-1910-1 OR APPROVED EQUAL	FLOOR	-	4"	2"	_	_	_	8"X8" TOP, DOME STRAINER, WHITE ACID RESISTANT INTERIOR, ALUM. BUCKET W/ SST LINER, LESS GRATE
HD—1	HUB DRAIN	PROSET MODEL SYSTEM INC. MODEL NO. TG34IP OR APPROVED EQUAL	FLOOR	-	4"	2"	1/2"	_	_	STUB TO 1" A.F.F. 1/2" TRAP PRIMER
HD—1	HUB DRAIN	PROSET MODEL SYSTEM INC. MODEL NO. TG34IP OR APPROVED EQUAL	FLOOR	-	4"	2"	_	_	_	STUB TO 1" A.F.F. W/ PROSET SYSTEM INC. TG34IP RETROFIT TRAP GUARD
WD-1	COMMERCIAL WASHER DRAIN	SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR	FLOOR	-	4"	2"	-	_	_	SEE TYPICAL DETAIL
DD-1	DECK DRAIN	ZURN MODEL NO. ZN154 OR APPROVED EQUAL	FLOOR	-	4"	2"	Ι	-	-	SQUARE TOP PROM-DECK DRAIN, DURA-COATED CAST IRON BODY, FRAME CLAMPS
WH-1	WALL HYDRANT	WOODFORD MODEL NO. B65 OR APPROVED EQUAL	WALL	18" TO 24"	_	Ι	3/4"	-	-	FREEZELESS, ANTI-SIPHON, LOCKING BOX
PH−1	POST HYDRANT	WOODFORD MODEL Y34 OR APPROVED EQUAL	POST	_	_	-	Ι	1"	-	ANTI-SIPHON, FREEZEPROOF, WITH 36" BURIAL DEPTH
HB—1	HOSE BIBB	WOODFORD MODEL NO. B24 OR APPROVED EQUAL	WALL	18" TO 24"	_	Ι	3/4"	-	-	ANTI-SIPHON, METAL WHEEL HANDLE, CHROME BOX
WB-1	ICEMAKER WALLBOX	OATEY MODEL NO. 38574 OR APPROVED EQUAL	WALL	36" A.F.F.	_	-	1/2"	-	-	1/4 TURN BRASS BALL VALVE – COPPER SWEAT –STANDARD PACK WITH 6' STAINLESS STEEL HOSE
VB-2	WASHER WALLBOX	OATEY MODEL NO. 38541 OR APPROVED EQUAL	WALL	36" A.F.F.	2"	1-1/2"	1/2"	1/2"	Ι	WITH 1/4 TURN VALVES AND CPVC CONNECTION AND MOUNTED WATER HAMMER ARRESTOR
⁻ .C.O.	FLOOR CLEANOUT	ZURN MODEL NO. ZN-1400-2 OR APPROVED EQUAL	FLOOR	_	4"	Ι	Ι	Ι	Ι	6" DIA. ADJUSTABLE NICKEL BRONZE TOP
V.C.O.	WALL CLEANOUT	ZURN MODEL NO. Z-1441 OR APPROVED EQUAL	WALL	-	4"	_	-	-	-	7" DIA. STAINLESS STEEL COVER
V.H.A.	WATER HAMMER ARRESTOR	ZURN SERIES 1700 OR APPROVED EQUAL	_	-	-	-	VARIES	VARIES	-	
EQUA	LS BY JAY R SMITH, ZU	RN, OATEY, OR JONES WILL BE ACCEPTE	D							

LATI	H A	N TS

P	LUMBIN	C	G LEC	GEND
ss ——	SANITARY SEWER		C.O.	CLEANOUT UP TO GRADE
V	VENT		۲	FLOOR DRAIN
cw	COLD WATER	1	O	HUB DRAIN
110	110° HOT WATER			GRIT/SAND TRAP
140	140° HOT WATER			HOT WATER RETURN PUMP
140HWR	140° HOT WATER RETURN		sv	BALL VALVE
NG	NATURAL GAS			BALL VALVE IN PLASTIC METER BOX W/ CAST IRON LID
CD	CONDENSATE DRAIN		x	GAS COCK
SP	SUMP PUMP DISCHARGE			CHECK VALVE
$\Box \equiv \equiv \vdots \text{ xss} \equiv \equiv \equiv \exists$	EXISTING SANITARY SEWER		a	RISER DOWN (ELBOW)
	EXISTING COLD WATER		Q	RISER UP (ELBOW)
□ = = X110 = = = =	EXISTING 110° HOT WATER		Ū	90° ELBOW
□ = = X140 = = = ⊐	EXISTING 140° HOT WATER		Ŀ □	TEE
	EXISTING NATURAL GAS		Ŵ	CROSS
	1/2" TRAP PRIMER LINE			VENT THRU ROOF
•	CONNECT TO EXISTING		AAV	AIR ADMITTANCE VALVE (SBCCI APPROVED)

CINC UPPOR XIMUM SUPPORT 0PER 60 4.5 5 5.5 5.5 6	SPACING (FEET) RATING TEMPERATURE (100 4 4 4 4 4.5 5	E DULE 40 *F) 140 2.5 2.5 2.5 2.5
SUPPOR XIMUM SUPPORT OPER 60 4.5 5 5.5 5.5 6	TS - SCHED SPACING (FEET) RATING TEMPERATURE (100 4 4 4 4.5 5	*F) 140 2.5 2.5 2.5 2.5
OPER 60 4.5 5 5.5 5.5 6	RATING TEMPERATURE (100 4 4 4 4 4 4.5 5 5	°F) 140 2.5 2.5 2.5 2.5
60 4.5 5 5.5 5.5 6	100 4 4 4.5 5	140 2.5 2.5 2.5 2.5
4.5 5 5.5 5.5 6	4 4 4.5 5	2.5 2.5 2.5
5 5.5 5.5 6	4 4.5 5	2.5 2.5
5.5 5.5 6	4.5 5	2.5
5.5 6	5	
6		3
	5	3
6	5	3
7	6	3.5
7.5	6.5	4
8.5	7.5	4.5
9	8	4.5
UPPOR	TS - SCHED	OULE 80
M SUPPORT SPA	ACING (FEET)	
OPER	RATING TEMPERATURE ((°F)
60	100	140
5	4.5	2.5
5.5	4.5	2.5
6	5	3
6.5	5.5	3.5
7	6	3.5
8	7	4
9	7.5	4.5
10	9	5
11	9.5	5.5
	9 UPPORT SPA OPER 60 5 5.5 6 6.5 7 8 9 10 11 TS SHALL BE AS NGENT FOR THE	9 8 SUPPORTS - SCHED M SUPPORT SPACING (FEET) OPERATING TEMPERATURE (60 100 5 4.5 5.5 4.5 6 5 6.5 5.5 7 6 8 7 9 7.5 10 9 11 9.5 TS SHALL BE AS NOTED ABOVE UNLES NGENT FOR THE APPLICATION.

PLUMBING DRAWING INDEX

SHEET NO.	SHEET TITLE
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P1.2	PLUMBING SCHEDULES AND DETAILS
P1.3	PLUMBING DETAILS
P2.1	WASTE PLUMBING PLAN
P2.2	WASTE PLUMBING RISER DIAGRAMS
P3.1	WATER AND GAS PLUMBING PLAN
P3.2	WATER AND GAS PLUMBING RISER DIAGRAMS
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P4.2	CONDENSATE PLUMBING PLANS
P5.1	GYMNASIUM PLUMBING PLANS

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E.

PHONE: (256) 820-9897

25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

ADDITIONS AND ALTERATIONS TO: HOMER SMILES STADIUM 1771 WHITMIRE STREET, LEEDS, AL 35094 LEEDS CITY SCHOOLS
ROFESSIONAL $ROFESSIONAL $ $08-13-2024$
SHEET TITLE: PLUMBING SCHEDULES, LEGEND, AND NOTES
PROJ. MGR.: RDW DRAWN: RLJ DATE: JUNE 28, 2024 REVISIONS



	ELECTRIC WATER COOLER SCHEDULE									
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	NOTES		
EWC-1	ELECTRIC WATER COOLER, ADA SPLIT LEVEL	ELKAY MODEL NO. EZSTL8WSSK OR APPROVED EQUAL	WALL	34–1/2" TO NOZ. CENTER	1-1/4"	1-1/4"	1/2"	ADA MOUNTED AT 34.5" AFF TO NOZZLE CENTERLINE, STAINLESS STEEL W/ TRIM BEZEL, WITH BOTTLE FILLING STATION, FILTER, MOUNTING KIT, INCLUDE ELKAY MODEL NO. LKAPREZL CANE APRON		

	LAUNDRY EQUIPMENT SCHEDULE										
MARK NO.	FIXTURE TYPE	MANUFACTURER'S MODEL NO.	MOUNT	MOUNT HEIGHT	WASTE SIZE	VENT SIZE	C.W. SIZE	H.W. SIZE	NOTES		
LD-1	WASHING MACHINE	G FURNISHED BY OWNER. E INSTALLED BY PLUMBING CONTRACTOR.		_	CWD-1	CWD-1	3/4"	3/4"			
LD-2	DRYER	FURNISHED BY OWNER. INSTALLED BY PLUMBING CONTRACTOR.	_	_	_	_	_	_	TOTAL = 175 MBH (3/4" CONNECTION)		



MI	MIXING VALVE SCHEDULE										
MARK NO.	MANUFACTURER'S MODEL NO.	TEMPERATURE (*F)	INLET	OUTLET							
MV-1	POWERS SERIES LFLM495	SET AT 90°-110°	1/2"	1/2"							
MV-2	POWERS SERIES LFLM496	SET AT 90°-110°	3/4"	3/4"							
MV-3	POWERS SERIES LFLM497	SET AT 90°-110°	1"	1"							
UNLESS OT AND ASSE	UNLESS OTHERWISE NOTED, MIXING VALVES SHALL CONFORM TO ASSE 1070 AND ASSE 1017										



OU	TDOOR	GAS	WATI	ER H	IEA	TEF	R SO	CH	EDI	JLE
MARK NO.	MODEL NO.	BTU INPUT	RECOVERY GPH @ 45°/77° RISE	GAS CONN SIZE	WIDTH SIZE	DEPTH SIZE	HEIGHT SIZE	WATER CONN SIZE	APPROX SHIP WEIGHT	VOLTAGE
GWH-1	RHEEM NO RTGH-95DVLN OR APP'V EQUAL.	199,000	8.4/4.9	3/4"	18-1/2"	9-3/4"	27-1/2"	3/4"	82	120-1-60
GWH-2	RHEEM NO RTGH–95DVLN OR APP'V EQUAL.	199,000	8.4/4.9	3/4"	18-1/2"	9-3/4"	27-1/2"	3/4"	82	120-1-60
GWH-3	RHEEM NO RTGH–95DVLN OR APP'V EQUAL.	199,000	8.4/4.9	3/4"	18-1/2"	9-3/4"	27-1/2"	3/4"	82	120-1-60
NOTES: 1 SIN 2 STA 3 NAT 4 INS 5 INS 6 ELE 7 INS 8 WAI 9 ENF	IGLE COMMERCIAL WALL MO ANDARD VENT DISCHARGE IN TURAL GAS PRESSURE : 7 STALLATION SHALL INCLUDE STALLATION SHALL INCLUDE ECTRICAL IS 120–1–60 , STALLATION SHALL INCLUDE RRANTY: 12 YEARS HEAT E	OUNTED REMO KIT " — 10.5" W. HEAT TRACIN SURFACE MC 90 WATTS GAS PRESSU EXCHANGER, 5	TE CONTROL C. G OF ALL WATER DUNTED WALL BOX RE REGULATOR TO 5 YEAR PARTS, 1	PIPING. WITH PIPE I D REDUCE GA YEAR LABO	ENCLOSURE AS PRESSU	CHASE. RE FROM	2 PSIG TO	D 9 W.C.		

CIRCULATOR PUMP SCHEDULE										
MARK NO.	TYPE	GPM	TOTAL HEAD FT. W.G.	MAXIMUM H.P.	MINIMUM EFFICIENCY	ELECTRICAL	DESIGN MFGR.	DESIGN MFGR. MODEL NO.		
CP-1	IN-LINE CENTRIF.	0-11	0-4.5	1/40		120-1-60	TACO	006e3LC		
NOT 1 2	CP-1 In Line CENTRIF. 0-11 0-4.5 1/40 - 120-1-60 TACO 006e3LC NOTES: (1) SmartPlus-e HOT WATER RECIRCULATION PUMP WITH SmartPlug CONTROLS FOR DOMESTIC WATER (3) 6 FT. CORD 6 FT. CORD (2) 1" BRONZE SWEAT									

CO	DES	AN	D

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- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL FIRE CODE •



NOT TO SCALE

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D STANDARDS

2021 INTERNATIONAL PLUMBING CODE

2021 INTERNATIONAL MECHANICAL CODE

• 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

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25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 24138

ADDITIONS AND ALTERATIONS TO: HOMER SMILES STADIUM 1771 WHITMIRE STREET, LEEDS, AL 35094 LEEDS CITY SCHOOLS
No.14192 PROFESSIONAL 08–13–2024
SCHEDULES PROJ. MGR.: RDW DRAWN: RLJ DATE: JUNE 28, 2024 REVISIONS
JOB NO. 23-125 SHEET NO: P1.2

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1"









UPPER LEVEL PLAN





MARK NO.	HORIZ. LENGTH FT	EST. BFF (BELOW FIN. FLOOR) FT							
$\langle 1 \rangle$	172	±3.29							
	STOR	M OUTFALL							
MARK NO.	HORIZ. LENGTH FT. (TO 5' FRO BUILDING EDGE)	M (BELOW FIN. FLOOR)							
1	6	±1.56							
2	6	±1.56							
$\sqrt{3}$	6	±1.56							
4	6	±1.56							
NOTE: VERIFY FINAL OUTFALL WITH CIVIL ENGINEER PRIOR TO BEGINNING WORK.									









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

LOWER LEVEL PLAN

UPPER LEVEL PLAN

WHORTON ENGIN	EERING, INC.
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WHORTON ENGINEERING PROJE	CT NO. 24138

WASTE PLUMBING PLAN

MARK	FIXTURE TYPE
IWH-1	IN-LINE WATER HEATER
EQUA	LS BY STATE, R

WATER PLUMBING PLAN

	ELECTRIC WATER HEATER SCHEDULE									
	MANUFACTURER'S MODEL NO.	SIZE	VOLTAGE	WATTS SIZE	DIMENSIONS	C.W. INLET	H.W. INLET	NOTES		
.R	CHRONOMITE MODEL NO. SR-20L OR APPROVED EQUAL	_	208 1 PH	4800	_	1/2"	1/2"			
HEEN	EEM, OR A. O. SMITH WILL BE ACCEPTED									

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ADDITIONS AND ALTERATIONS TO HOMER SMILES S 1771 WHITMIRE STREET, LEEDS, A

PROFESSION/

08-13-2024

RDW

RLJ

JUNE 28, 2024

P5.1

10 OF 10

1"

Sheet Title: GYMNASIUM

PROJ. MGR.:

DRAWN:

DATE: REVISIONS

PLUMBING PLANS

STREET, HOOLS

SCH

EEDS CITY

HVAC NOTES

	ALL DUCT DIMENSIONS SHOWN ARE NET INTERNAL.	22	ALL THERMOSTATS TO BE UNLESS OTHERWISE INDICA
2	INSTALL OPPOSED BLADE BALANCING DAMPERS IN ALL NEW DIFFUSERS AND GRILLES.	(23)	ALL REFRIGERANT LINES S
3	THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL REQUIREMENTS OF	24	PAINT ALL EXTERIOR EXPC
	THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT CAREFULLY	25	PORTIONS OF DUCTWORK IN FINISHED AREAS SHALL
	REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.	26	FLEXIBLE DUCT (SUPPLY F
4	COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, ETC. COORDINATE WITH OTHER TRADES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.	27)	DUCTWORK SHALL BE INSU RECTANGULAR SUPPLY: ROUND SUPPLY: 1–1/ FLEXIBLE SUPPLY: 1' RECTANGULAR RETURN OSA/EXHAUST: 1–1/2
5	REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES; COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHTING FIXTURES. FOR PARTICULAR ITEMS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING	28	DUCTWORK SHALL BE GAL' SMACNA STANDARDS.
	AND PRESENT IT TO THE ARCHITECT FOR REVIEW AND/OR APPROVAL.	(29)	LABEL ALL DUCTS WITH TO DIRECTION OF AIR FLOW.
6)	COORDINATE ALL ROOF AND SLAB PENETRATIONS WITH THE STRUCTURAL ENGINEER. TRANSITIONS RECTANGULAR DUCTWORK ON THE BOTTOM AND THE SIDES. MAINTAIN DUCTWORK LEVEL AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.	30	ROUND DUCT SHALL BE IN
7	THE HVAC CONTRACTOR IS TO REVIEW THE ENTIRE SET OF PLANS FOR COORDINATION WITH OTHER TRADES. SHOP DRAWINGS WITH ALL TRADES COORDINATED WILL BE REQUIRED.		INSTALLED R-VALUE 4.2. INSULATED WITH DUCT WR WITH FSK VAPOR RETARDE
8	THE HVAC CONTRACTOR SHALL REVIEW THE ARCHITECTURAL PLANS FOR FINAL LOCATIONS	31	ALL OPEN ENDED DUCT S
	AND INSTALL FIRE OR FIRE/SMOKE DAMPERS IN ALL RATED LOCATIONS WHETHER SHOWN ON THE MECHANICAL PLANS OR NOT.	32	ALL EXPOSED DUCT SHALL CERTAINTEED TG2 DUCT LI
9	CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.	33	ALL EXPOSED DUCT SHALL PAINT COLOR WITH ARCHIT
10	ALL THREE PHASE EQUIPMENT SHALL BE EQUIPPED WITH PHASE LOSS PROTECTION.	34)	DUCT LINER FOR RECTANG LINER WITH A MINIMUM R-
	ALL MOTOR STARTERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.		ATTIC SHALL BE LINED WIT WITH A MINIMUM R-VALUE TO CERTAINTEED SOFT TOU
12	CONTRACTOR TO COORDINATE ALL CEILING TYPES WITH DIFFUSERS. ALL DIFFUSERS IN GYPSUM CEILING SHALL INCLUDE PLASTER FRAME.		WITH A MINIMUM INSTALLE
(13)	ALL DISTRIBUTION DEVICES SHALL HAVE FACE OPERABLE DAMPERS. ALL DIFFUSER RUNOUTS SHALL INCLUDE SPIN—IN WITH DAMPER IN ROUND DUCTS.	(35)	WARRANTIES SHALL BEGIN ALL COMPRESSORS SHALL WARRANTY FOR LABOR, PA
14	INSULATE TOP SIDE/BACK OF ALL DIFFUSERS/GRILLES, ETC.	36	INSTALL ANGLE COVER OV CROSS MEZZANINE FLOOR
15	CONDENSATE DRAIN PIPING SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT AND SHALL BE SIZED PER TABLE 307.2.2 IN THE 2021 INTERNATIONAL MECHANICAL CODE	\frown	ANGLE COVER SAFETY YEL
(16)	UNLESS SHOWN LARGER ON PLANS. ALL 3/4" AND 1" CONDENSATE DRAIN TRAPS SHALL BE EZ-TRAP OR APPROVED	(37)	CONTRACTOR SHALL ANCH WITH MANUFACTURER'S RE PLANS/SPECIFICATIONS. (WITH STRUCTURAL AND AR
	EQUAL WITH FLOAT SWITCH.	(38)	THE CONTRACTOR SHALL I
	ETC. INSTALL FLOAT SWITCH FOR UNIT SHUT DOWN IN AUXILIARY DRAIN PAN.		A WAY THAT NO WATER LE
(18)	REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING. IF CONDENSATE DRAINS ARE NOT SHOWN ON THE PLUMBING PLANS, ALL CONDENSATE DRAINS SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.	(39)	WIND CLIPS FOR CURB M
(19)	VERIFY WITH THE ARCHITECTURAL DRAWINGS, SIZE, LOCATION, AND MOUNTING HEIGHT OF ALL LOUVERS. VERIFY COLOR AND FINISH WITH ARCHITECT.	(40)	ALL INDOOR AND OUTDOOF CLEARANCES IN ACCORDAN AS PER PLANS/SPECIFICAT CLEARANCES WITH STRUCT
20	ALL UNUSED PORTION OF LOUVERS SHALL BE CAPPED OFF WITH 1" INSULATED ALUMINUM AND SEALED AIR/WATER TIGHT.	(41)	CARBON MONOXIDE SENSC
(21)	ALL THERMOSTATS TO BE AUTOMATIC CHANGE OVER TYPE AND SHALL INCLUDE LOCKING THERMOSTAT COVERS.		

	DEHUMIDIFIER EQUIPMENT SCHEDULE											
			WATER REMOVAL		ELECTR	RICAL	MODEL	NO. DATA				
MARK NO.	NOMINAL FAN CFM	REFRIGERANT	80°F 60% RH	OPERATING RANGE	POWER SUPPLY	AMPS	MANUFACTURER (OR APPROVED) EQUAL)	UNIT MODEL NO.	WEIGHT (LBS.)	NOTES		
DH 1	DH 495 R-410A 205 PINTS/DAY 49°-95°F 115-1-60 13.2 THERMA-STOR SANTA-FE ULTRA205 140 SEE BELOW											
1 2 3 4 5 6	UNIT TO BE O UNIT TO INCL UNIT TO INCL UNIT TO INCL SHALL BE PO UNIT TO INCL UNIT TO INCL	CONTROLLED WITH F JDE FACTORY DUCT JDE FACTORY MERV JDE BIOCLIMATIC (C WERED FROM ASSO JDE FACTORY COND JDE UV-C PROTECT	ACTORY MODEL DEH 30 COLLARS (10"). 2–13 FILTER. OR APPROVED EQUAL) B CIATED DEHUMIDIFIER AN DENSATE PUMP KIT. FION. EQUIPMENT SHAL	000 WALL MOUNTED I-POLAR IONIZATION ND SHALL INCLUDE	UNIT MOUNTED IN ALL NECESSARY THUMIDISTAT.	N UNIT SUPPLY RANSFORMERS, T SYSTEM MOD	Y DUCT AND INTERLOCK, ETC. DEL TUV-C-ADS (OR APP	ROVED EQUAL).				

E MOUNTED 4'-0" A.F.F. TO HIGHEST OPERABLE CONTROL CATED. SHALL BE SIZED/APPROVED BY THE EQUIPMENT ANUFACTURER. OSED ARMAFLEX INSULATION FOR UV PROTECTION. VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS BE PAINTED FLAT BLACK. RUNOUTS ONLY) SHALL NOT EXCEED 6'-0" IN LENGTH. SULATED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: Y: 1" INTERNAL 2" EXTERNAL PRE INSULATED 1" INTERNAL 2"EXTERNAL LVANIZED AND INSTALLED IN ACCORDANCE WITH TYPE (SUPPLY, RETURN, ETC.) AND ARROWS INDICATING LABÈLS SHALL BE EVERY SIX FEET AND AT EACH 'S, ELBOWS, ETC.) INSULATED WITH DUCT WRAP EQUAL TO CERTAINTEED SOFT FSK VAPOR RETARDER FACING TYPE 75 WITH MINIMUM ROUND DUCTS LOCATED WITHIN THE ATTIC SHALL BE RAP EQUAL TO CERTAINTEED SOFT TOUCH DUCT WRAP ER FACING TYPE 100 WITH MINIMUM INSTALLED R-VALUE 6.0 SHALL BE CAPPED WITH 1/2"X1/2" WIRE MESH. BE INSULATED INTERNALLY WITH 1" DUCT LINER EQUAL TO LINER WITH MINIMUM INSTALLED R-VALUE 4.0. L BE PAINTED. DUCT SHALL BE "PAINT GRIP". COORDINATE ITECT. IGULAR DUCTS SHALL BE EQUAL TO CERTAINTEED TG2 DUCT R-VALUE OF 4.0. RECTANGULAR DUCTS LOCATED WITHIN THE ITH DUCT LINER EQUAL TO CERTAINTEED TG2 DUCT LINER E OF 4.0 AND WRAPPED EXTERNALLY WITH DUCT WRAP EQUAL OUCH DUCT WRAP WITH FSK VAPOR RETARDER FACING TYPE 75 ED R-VALUE OF 4.2. AT DATE OF SUBSTANTIAL COMPLETION. INCLUDE MIN. OF FIVE YEAR WARRANTY. ONE YEAR ARTS, UNITS, ETC. IS REQUIRED FOR ALL EQUIPMENT. VER CONDENSATE LINES, REFRIGERANT LINES, ETC. THAT R WHERE TRIPPING MIGHT BE A HAZARD. PRIME AND PAINT ELLOW COLOR. HOR OUTDOOR UNITS TO CONCRETE PAD IN ACCORDANCE ECOMMENDATION, WIND LOAD REQUIREMENTS, AND AS PER COORDINATE CONCRETE PAD SIZE, UNIT CLEARANCES, ETC. RCHITECTURAL PLANS, FRAMING, ETC. INSTALL ANY CURB-MOUNTED EQUIPMENT IN SUCH LEAKAGE IS INTRODUCED INTO THE BUILDING. TOR SHALL FURNISH AND INSTALL TORNADO/HURRICANE

OR UNITS SHALL BE LOCATED SO THAT MAINTENANCE NCE WITH MANUFACTURER'S RECOMMENDATION AND ATIONS ARE MAINTAINED. COORDINATE MAINTENANCE TURAL AND ARCHITECTURAL PLANS, FRAMING, ETC.

OR SHALL BE MACURCO MODEL CM-6 (OR APPROVED EQUAL).

					
		Н	VAC LEGEND		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CEILING DIFFUSER – SUPPLY RECTANGULAR WITH ROUND NECK 4–WAY THROW UNLESS OTHERWISE INDICATED		LOW LEAKAGE MOTORIZED VOLUME DAMPER		STANDARD 90° RADIUS ELBOW
	CEILING DIFFUSER – RETURN RECTANGULAR WITH SQUARE NECK		HORIZONTAL MOUNTED FIRE DAMPER	Ę,	STANDARD 45" RADIUS ELBOW
□→	SIDEWALL DIFFUSER – SUPPLY WITH MULTI–VANE DEFLECTOR		VERTICAL MOUNTED FIRE DAMPER	Market C	90° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	SIDEWALL DIFFUSER – RETURN WITH 30' FIXED DEFLECTION	T	THERMOSTAT LOCATION		45° VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
XX-X XXX CFM	DIFFUSER TAG REFERENCE SCHEDULE FOR SIZING	H	HUMIDISTAT LOCATION		VANED TEE (PROVIDE ALL SQUARE OR RECTANGULAR TEE'S WITH VANES EVEN IF SYMBOL IS MISSING)
8	CEILING EXHAUST FAN	M	CARBON MONOXIDE SENSOR LOCATION		STANDARD DUCT SIZE TRANSITION
12"X12"	NEW RECTANGULAR DUCT WIDTH X DEPTH	CD	HVAC CONDENSATE DRAIN PIPING		STANDARD SQUARE TO ROUND TRANSITION
€ 10"ø	NEW ROUND DUCT DIAMETER	R	HVAC REFRIGERANT LINE		
	MANUAL VOLUME DAMPER OPPOSED BLADE		ELECTRIC UNIT HEATER WALL MOUNTED (RECESSED)		

	LOUVER SCHEDULE											
									MODEL 1	NO. DATA		
MARK NO.	MOUNTING	SIZE W X H	BLADE ANGLE	BLADE CENTERS	MIN. FREE AREA	MINIMUM FREE AREA SQ. FT.	PRESSURE DROP IN W.G.	СҒМ	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	NOTES	
$\begin{pmatrix} L \\ 1 \end{pmatrix}$	SIDE WALL	32 " X16"	37•	4"	36%	1.26	0.10	900	GREENHECK	ESD-635	SEE BELOW	
$\begin{pmatrix} L \\ 2 \end{pmatrix}$	SIDE WALL	16 " X16"	37•	4"	32%	0.57	0.10	450	GREENHECK	ESD-635	SEE BELOW	
$\begin{pmatrix} L \\ 3 \end{pmatrix}$	SIDE WALL	16"X16"	37*	4"	32%	0.57	0.10	450	GREENHECK	ESD-635	SEE BELOW	

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

APPROVED EQUALS: RUSKIN AND UNITED ENERTECH.

CODES AND STANDARDS

- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- ASHRAE 90.1-2013 ENERGY STANDARD

HVAC DRAWING INDEX

SHEET NO.	SHEET TITLE
M1.1	HVAC LEGEND, NOTES, AND SCHEDULES
M1.2	HVAC SCHEDULES
M1.3	HVAC SCHEDULES
M1.4	HVAC SCHEDULES AND DETAILS
M2.1	HVAC DETAILS
M2.2	HVAC DETAILS
M2.3	HVAC IAQ/COMPLIANCE CALCULATIONS
M2.4	HVAC VARIABLE REFRIGERANT FLOW DIAGRAM
M2.5	HVAC VARIABLE REFRIGERANT FLOW DIAGRAM
M3.1	LOWER AND UPPER LEVEL HVAC PLANS
M3.2	ATTIC HVAC PLAN
M3.3	GYMNASIUM HVAC PLAN
M4.1	LOWER AND UPPER LEVEL HVAC REFRIGERANT PIPING PLANS
M4.2	ATTIC HVAC REFRIGERANT PIPING PLAN

WHORTON ENGINEERING, INC.

HVAC – PLUMBING – PROCESS CONTROL

RANDALL WHORTON, P.E. PHONE: (256) 820-9897

25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

WHORTON ENGINEERING PROJECT NO. 24138

ADDITIONS AND ALTERATIONS TO: ADDITIONS ADDITIONS AND ALTERATIONS TO: ADDITIONS ADDITIONS ADDITIONS TO: ADDITIONS ADDITIONS ADDITIONS ADDITIONS TO: ADDITIONS ADDITIONS ADDITION	PROJ. MGR.: RDW DRAWN: JH DATE: JUNE 28, 2024 REVISIONS	LATHAN Architects
PROJ. MGR.: RDW PROJ. MGR.: RDW PROJ. MGR.: RDW	PROJ. MGR.: RDW DATE: JUNE 28, 2024 REVISIONS JOB NO. 23-125 SHEET NO:	ADDITIONS AND ALTERATIONS TO: HOMER SMILES STADIUM 1771 WHITMIRE STREET, LEEDS, AL 35094 LEEDS CITY SCHOOLS
SHEET TITLE: HVAC LEGEND, NOTES, AND SCHEDULES PROJ. MGR.: RDW DRAWN: JH	SHEET TITLE: HVAC LEGEND, NOTES, AND SCHEDULES PROJ. MGR.: RDW DRAWN: JH DATE: JUNE 28, 2024 REVISIONS JOB NO. 23-125 SHEET NO:	No.14192 PROFESSIONAL 08-13-2024
	DATE: JONE 28, 2024 REVISIONS JOB NO. 23-125 SHEET NO:	SHEET TITLE: HVAC LEGEND, NOTES, AND SCHEDULES PROJ. MGR.: RDW DRAWN: JH

1"

						COOLIN		AIP			HEATING CAPACIT	Y ENI	SCHEL	MODEL NO. DATA		APPRO	XIMATE	
MARK NO.	NOMINAL FAN CFM	MINIMUM OSA CFM	EXT. STATIC (IN. W.G.)	TOTAL CAP. MBH	SENS. CAP. MBH	COND. E.A.T.	EVAP. E.W.B. TEMP	MIN. SEER/EER	MIN. IEER	LOW TEMP 17° E.A.T. MBH	HIGH TEMP 47* E.A.T. MBH	MIN. HSPF/COP	MANUFACTURER (OR APPROVED FQUAL)	INDOOR UNIT MODEL NO	OUTDOOR UNIT MODEL NO	REFRIG. P		NOTES
$\frac{\text{HP}}{2-1}$	2,000	225	0.6"	57.9	45.1	95	80/67	SEER 14.5	N/A	34.6	52.5	HSPF 8.5	TRANE	GAM5B0C60	4TWA4060	(IN. 0.D.) 1–1/8	(IN. O.D.) 3/8	SEE BELOW
HP 2-2	2,000	225	0.6"	57.9	45.1	95	80/67	SEER 14.5	N/A	34.6	52.5	HSPF 8.5	TRANE	GAM5B0C60	4TWA4060	1-1/8	3/8	SEE BELOW
(HP)	2,000	2,000 350 0.6" 57.9 45.1 95 80/67 SEER 14.5 N/A 34.6 52.5 HSPF 8.5 TRANE GAM5B0C60 4TWA4060 1-1/8										1-1/8	3/8	SEE BELOW				
TOTAL	AL 800 173.7																	
· 2 3 4 5 6 7 8 9 10 11 2	 UNIT TO INCLUDE A 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER ELECTRONIC SETBACK THERMOSTAT/HUMIDISTAT WITH SUB-BASE AND LOCKING COVER. UNIT TO INCLUDE OUTDOOR THERMOSTAT. UNIT TO INCLUDE CONDENSER HAL GUARD. VERTICAL UNIT TO BE MOUNTED ON A STEEL ANGLE PLENUM. PRIME AND PAINT STEEL TO MATCH UNIT. VERIFY PLENUM HEIGHT WITH EQUIPMENT SUPPLIER. REFRIGERANT R-410A. UNIT TO INCLUDE LOW AMBIENT CONTROLS TO 0 DEG F. UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL). BI-POLAR IONIZATION UNIT (NEEDLEPOINT) MOUNTED IN UNIT RETURN DUCT PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED HEAT PUMP. ALL INDOOR UNITS TO INCLUDE 2th MERY 13 PLEATED FILTER AND FILTER RACK ON UNIT RETURN. UNIT TO INCLUDE FACTORY RETURN AIR SMOKE DETECTOR. ALL UNITS TO INCLUDE V-C PROTECTION. EQUIPMENT SHALL BE FRESH-AIRE UV AIRBORNE DUCT SYSTEM MODEL TUV-C-ADS (OR APPROVED EQUAL). VERIFY FINAL REFRIGERANT PIPING SIZE AND LENGTH WITH MANUFACTURER. 										ERS SHALL 20—1—60							

APPROVED EQUALS: AMERICAN STANDARD, BRYANT, CARRIER, LENNOX, AND RHEEM

HEAT PUMP EQUIPMENT ELE

			OUTDOOR	UNIT					INDOOR UNI	Ţ			
MARK NO.	VOLTAGE	COMPRESSOR R.L.A. (EACH)	OUTDOOR FAN F.L.A. (EACH)	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION	WEIGHT (LBS.)	VOLTAGE	INDOOR FAN H.P.	ELECTRIC STRIP HEAT K.W.	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION	WEIGHT (LBS.)	SINGLE POINT CONNECTION
HP 2-1	208/230-3-60	15.9	1.1	21	35	325	208/230-3-60	1.0	10.8/14.4	46/52	50/60	180	YES
$\left(\begin{array}{c} HP \\ 2-2 \end{array} \right)$	208/230-3-60	15.9	1.1	21	35	325	208/230-3-60	1.0	10.8/14.4	46/52	50/60	180	YES
HP 2-3	208/230-3-60	15.9	1.1	21	35	325	208/230-3-60	1.0	10.8/14.4	46/52	50/60	180	YES

VRF INDOOR EQUIPMENT SCHEDULE - DEDICATED OUTSIDE AIR SYSTEM (DOAS)

				COOLING CAPACI	TY	HEATING CAPACITY		MODEL NO. DATA			ELECTRICAL			
MARK NO.	NOMINAL FAN CFM	OSA CFM	TOTAL CAPACITY MBH	CONDENSER E.A.T.	EVAPORATOR E.W.B. TEMP.	TOTAL CAPACITY MBH	REHEAT MBH	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	VOLTAGE	MCA	МОСР	ASSOCIATED OUTDOOR UNIT	NOTES
OSA 1	1,200	1,200	112.0	95	80/67	61.4	24.2	MITSUBISHI	PEFY-AF1200CFMR-E	208/230-1-60	3.99/4.31	15	OSA-1	SEE BELOW
OSA 2	1,200	1,200	112.0	95	80/67	61.4	24.2	MITSUBISHI	PEFY-AF1200CFMR-E	208/230-1-60	3.99/4.31	15	OSA-2	SEE BELOW
TOTAL		2,400	224.0			122.8								

(1) UNIT TO INCLUDE A WALL MOUNTED 7-DAY PROGRAMMABLE AUTOMATIC CHANGEOVER THERMOSTAT WITH SUB-BASE AND LOCKING COVER. THERMOSTAT SHALL BE WALL MOUNTED SMART ME THERMOSTAT/CONTROLLER AND INCLUDE WALL MOUNTED REMOTE TEMPERATURE SENSOR.

(2) UNIT TO INCLUDE INTERNAL FACTORY CONDENSATE PUMP.

3 REFRIGERANT R-410A.

(4) EXTERNAL STATIC SHALL BE 0.80"/0.96".

(5) ALL UNITS TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT MOUNTED AT THE FAN INLET PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED UNIT.

(6) UNIT TO INCLUDE FACTORY FILTER BOX WITH 2" MERV 13 FILTER.

(7) UNIT TO INCLUDE FACTORY RELAY KIT.

8 UNIT TO INCLUDE TWO (2) FACTORY DX COILS.

(9) UNIT TO INCLUDE UV-C PROTECTION. EQUIPMENT SHALL BE FRESH-AIRE UV AIRBORNE DUCT SYSTEM MODEL TUV-C-ADS (OR APPROVED EQUAL). (1) UNIT SHALL BE INTERFACED TO MITSUBISHI BUILDING MASTER CONTROLLER.

APPROVED EQUALS: FUJITSU, CARRIER TOSHIBA, AND TRANE

ECT	RIC	AL C	DAT	Ά

HVAC SCHEDULES

NOMINAL CFM MARK NO. VOLTAGE K.W.

- $\left< \frac{CEH}{1} \right>$ 300 208-1-60 2.0
- (1) UNIT TO INCLUDE A RECESS MOUNTING ENCLOSURE.
- (2) UNIT TO INCLUDE AUTOMATIC THERMAL CUTOUT AND POWER DISCONNECT.
- (3) UNIT TO INCLUDE AN INTEGRAL THERMOSTAT.

APPROVED EQUALS: INDEECO, MARKEL, QMARK, AND RAYWALL

	WAL	L MOL	INTE	D
MARK NO.	NOMINAL CFM	VOLTAGE	WATTS	1
WEH 1	100	208-1-60	1,500	
WEH 2	100	208-1-60	1,500	
\underbrace{WEH}_{3}	100	208-1-60	1,500	
WEH G1	100	208-1-60	1,500	

- (1) UNIT TO INCLUDE BUILT-IN TAMPER-PROOF THERMOSTAT.
- (2) UNIT TO INCLUDE FACTORY DISCONNECT SWITCH MOUNTED BEHIND FRONT GRID PANEL.
- 3 UNIT TO INCLUDE THERMAL CUTOUT.
- (4) UNIT TO INCLUDE SEMI-RECESSED MOUNTING FRAME. (5) UNIT TO BE MOUNTED AT 16" AFF.
- APPROVED EQUALS: INDEECO, MARKEL, QMARK, AND RAYWALL

	INTAKE VENT SCHEDULE										
MARK NO.	CFM	THROAT AREA S.F.	P.D.	MATERIAL	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	NOTES				
$\left\langle \begin{array}{c} V \\ 1 \end{array} \right\rangle$	I 1,200 2.292 0.05 SPUN ALUMINUM LOREN COOK PR-20 SEE BELOW										
$\left\langle \frac{ V }{2} \right\rangle$	Image: Note of the second s										
$\left\langle \frac{ V }{3} \right\rangle$	800 1.485 0.05 SPUN ALUMINUM LOREN COOK PR-16 SEE BELOW										
$\langle V \\ 4 \rangle$	IV - 0.852 0.05 SPUN ALUMINUM LOREN COOK PR-12 SEE BELOW										
1	 INTAKE VENT TO INCLUDE FACTORY ROOF CURB. COORDINATE ALL ROOF CURBS WITH THE ROOFING CONTRACTOR. PRIME AND PAINT ROOF CURB AND INTAKE VENT TO MATCH ROOF (COORDINATE FINAL COLOR WITH ARCHITECT). INTAKE VENT TO INCLUDE FACTORY MOTORIZED DAMPER, MANUAL DAMPER, AND BIRDSCREEN. 										
APPRO'	APPROVED EQUALS: CARNES, GREENHECK, AND PENN										

		RE	LIEF	VENT S	SCHEDU	JLE	
MARK NO.	CFM	THROAT AREA S.F.	P.D.	MATERIAL	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	NOTES
$\left\langle \begin{array}{c} \mathbb{RV} \\ 1 \end{array} \right\rangle$	1,660	3.341	0.05	SPUN ALUMINUM	LOREN COOK	PR-24	SEE BELOW
$\left\langle \begin{array}{c} RV \\ 2 \end{array} \right\rangle$	1,200	2.292	0.05	SPUN ALUMINUM	LOREN COOK	PR-20	SEE BELOW
1	RELIEF VENT TO PRIME AND PAIN RELIEF VENT TO	INCLUDE FACTO NT ROOF CURB	ORY ROOF CURI AND RELIEF VE ORY BACKDRAFT	B. COORDINATE ALL RO NT TO MATCH ROOF (C DAMPER AND BIRDSCR	OOF CURBS WITH THE F OORDINATE FINAL COLOF REEN.	ROOFING CONTRACTOR WITH ARCHITECT).	DR.
APPRO'	VED EQUALS: C	ARNES, GREENH	ECK, AND PENN	l			

CEILING MOUNTED ELECTRIC HEATER SCHEDULE

BTU/HR (000)	AMPS	MANUFACTURER (OR APPROVED EQUAL)	UNIT MODEL NO.	UNIT WEIGHT (LBS)	NOTES
6.8	9.6	BERKO	FFCH-548	27	SEE BELOW

ELECTRIC HEATER SCHEDULE MANUFACTURER (OR APPROVED UNIT UNIT MODEL NO. BTU/HR AMPS WEIGHT (LBS) NOTES EQUAL) 7.2 5,120 BERKO FRC4024F 25 SEE BELOW 5,120 7.2 BERKÖ FRC4024F 25 SEE BELOW 5,120 7.2 BERKO FRC4024F SEE BELOW 25 5,120 7.2 BERKO FRC4024F SEE BELOW 25

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

ANNISTON, ALABAMA 36205

1"

RANDALL WHORTON, P.E. PHONE: (256) 820-9897

		VRF (DUT	DO	DR	EQL	JIPN		CHE	EDU	LE		
	MODEL	IO. DATA			CAPACITY				FI FCTRICAI				
MARK NO.	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	AHRI EER	AHRI IEER	AHRI COP	COOLING MBH	HEATING MBH	VOLTAGE	MCA (A)	MOCP (A)	REC. FUSE (A)	NET WEIGHT (LBS.)	NOTES
$\left< \frac{HRU}{1} \right>$	MITSUBISHI	PURY-P144	12.2 (NON-DU	21.6 JCTED INDO	3.84 DR UNIT)	144	160	208/230-3-60	60/55	100/90	60/60	646	SEE BELOW
HRU 2	MITSUBISHI	PUHY-P72 (HEAT PUMP)	12.0 (NON-DU	26.9 JCTED INDO	4.39 OR UNIT)	72	80	208/230-3-60	29/26	45/40	30/30	470	SEE BELOW
$\left< \frac{\text{HRU}}{3} \right>$	MITSUBISHI	PURY-P96	11.5 (NON-DU	23.8 JCTED INDO	4.14 OR UNIT)	96	108	208/230-3-60	40/37	60/50	40/40	576	SEE BELOW
$\left< \begin{array}{c} OSA \\ \hline 1 \end{array} \right>$	MITSUBISHI	PURY-P120	12.1 (DUCT	20.6 ED INDOOR	3.61 UNIT)	120	135	208/230-3-60	50/46	80/70	50/50	598	SEE BELOW
$\left< \begin{array}{c} OSA \\ 2 \end{array} \right>$	MITSUBISHI	PURY-P120	12.1 (DUCT	20.6 ED INDOOR	3.61 UNIT)	120	135	208/230-3-60	50/46	80/70	50/50	598	SEE BELOW
TOTAL						552	618						
 2 3 4 5 6 7 8 9 10 	UNIT HRU-1, HRU-3, O UNIT HRU-2: R-410A UNIT TO INCLUDE COND SYSTEM SHALL INCLUDE CONTROLLER SHALL BE SYSTEM SHALL INCLUDE CONTROL PANEL ENCLO MITSUBISHI CONTROL DI DRAWINGS SHALL INCLU WITHIN THE BUILDING M CONTRACTOR SHALL CO TO CERTIFY THE SYSTEM ALL UNITS SHALL BE IN EACH EQUIPMENT STAND WIND LOAD REQUIREMEN APPROXIMATE VRF OUTE • UNIT HRU-1: LIC	OSA-1, AND OSA-2: REFRIGERANT, VARIABL DENSER HAIL GUARDS. ONE BUILDING MASTE TOUCH SCREEN WITH ONE HVAC MAINTENAN OSURE. CONTRACTOR S RAWINGS WITH M-NET DE M-NET ADDRESS, UN MASTER CONTROLLER, UN MPLETE THE STARTUP M FOR THE EXTENDED NSTALLED ON DIVERSITE OFRAME SHALL BE SE NTS, AND AS PER PLAN DOOR EQUIPMENT REFR	R-410A REF E REFRIGER INTEGRAL BA INTEGRAL BA INTEGRAL DEMON ADDRESSES JNIT MARK M NITS SHALL DOCUMENTAT 10-YEAR PA ICH QUICKSL CURELY ANC IS/SPECIFICA IGERANT PIP SURE) 7/8"	FRIGERANT, Y ANT VOLUME ER (AE-200 ACNET GATEN ND SOFTWAR NSTRATE/TES LABELED SH NUMBER, RE BE LABELED HORED SH ARTS AND 1 ING NEXT G HORED TO ATIONS. ING SIZE: BRAZED AN	VARIABLE RI A, HEAT PUN DA). REFER WAY FOR IN TE ON PORT ST UNITS UT HALL BE LAN FRIGERANT O WITH UNIT R THE MANU O YEAR CO ENERATION CONCRETE IN ID GAS PIPE	EFRIGERANT MP. RENCE PLANS ITEGRATION TABLE DRIVE TILIZING MAII MINATED ANE LINE LENGTH MINATED ANE LINE LENGTH MARK NUM JFACTURER'S DMPRESSOR SUPER STAI PAD IN ACC	VOLUME, HE S FOR LOCA TO BUILDING WHICH SHA NTENANCE TO D INSTALLED HS, AND REF IBER TO MA IBER TO MA INSTRUCTIC WARRANTIES. ND VRF EQU ORDANCE WI	AT RECOVERY. TION. BUILDING MASTE AUTOMATION SYSTEM. L BE STORED IN DOL WITH ENGINEER. AT MITSUBISHI CONTRO RIGERANT CHARGE (R- TCH PLANS AND ROOM NS IPMENT STAND (OR AP TH MANUFACTURER'S R /8" BRAZED.	ER DL PANEL. -410A). NAME/ROOM PROVED EQU ECOMMENDA	M NUMBER. JAL). TION,			
(1) (12) (13) (14)	UNIT HRU-1: LIC UNIT HRU-2: LIC UNIT HRU-3: LIC UNIT OSA-1 AND VERIFY FINAL REFRIGER/ ALL UNITS SHALL BE A: ALL UNITS TO INCLUDE UNIT HRU-2: ASSOCIA SYSTEM SHALL BE CON SPECIFIC/PRIORITY ZON REMAINING INDOOR UNIT	QUID PIPE (HIGH PRES QUID PIPE (HIGH PRES QUID PIPE (HIGH PRES OSA-2: LIQUID PIPE ANT PIPING SIZE AND I SHRAE 90.1-2013 COM FACTORY START-UP. TED INDOOR UNITS SH FIGURED FOR SPECIFIC E SHALL BE SET FOR TS WILL BE ABLE TO C	SURE) 7/8" SURE) 3/8" SURE) 3/4" (HIGH PRES LENGTH WITH IPLIANT. ALL BE CON /PRIORITY Z UNIT CS-2- SHANGE TEMP	BRAZED AN BRAZED AN BRAZED AN SURE) 3/4' MANUFACT MANUFACT FIGURED FO ONE TO ALL ONE TO ALL PERATURE, F	ID GAS PIPE ID GAS PIPE ID GAS PIPE ' BRAZED A URER. URER. URER. GN SPEED, 'AN SPEED,	E (LOW PRE E (LOW PRE E (LOW PRE ND GAS PIP ND GAS PIP	SSURE) 1-1 SSURE) 7/8 SSURE) 7/8 PE (LOW PRE PE (LOW P	/8" BRAZED. " BRAZED. "BRAZED. "SSURE) 1–1/8" BRAZ SSURE) 1–1/8" BRAZ ND UAL SET POINT OCCUR AT THIS THER	ED. ING). MOSTAT.				

APPROVED EQUALS: FUJITSU, CARRIER TOSHIBA, AND TRANE

			NCH	CONTR	OLLE	ER SO	CHEC	DULE	
MARK NO.	MANUFACTURER (OR APPROVED EQUAL)	MODEL NUMBER	BRANCHES	VOLTAGE	MCA (A)	MOCP (A)	UNIT WEIGHT (LBS.)	ASSOCIATED OUTDOOR UNIT	NOTES
BC 1	MITSUBISHI	CMB-P1016NU-JA1-BV	16	208/230-1-60	1.6/1.8	20	150	HRU-1	SEE BELOW
$\left(\begin{array}{c} BC \\ 2 \end{array} \right)$	MITSUBISHI	CMB-P1016NU-JA1-BV	16	208/230-1-60	1.6/1.8	20	150	HRU–3	SEE BELOW
BC 3	MITSUBISHI	CMB-P106NU-J1-BV	6	208/230-1-60	0.6/0.7	20	64	OSA-1	SEE BELOW
BC 4	MITSUBISHI	CMB-P106NU-J1-BV	6	208/230-1-60	0.6/0.7	20	64	OSA-2	SEE BELOW
(1) (2)	BRANCH CONTROLLER ⁻ FURNISH AND INSTALL	TO INCLUDE FACTORY CONDENS FACTORY BALL VALVES ON ALL	ATE PUMP. PORTS OF BRA	NCH CONTROLLER.					

(3) LABEL PORTS OF BRANCH CONTROLLER WITH MARK NUMBER TO MATCH CONNECTED UNIT.

(4) BRANCH CONTROLLER TO INCLUDE FACTORY START-UP.

APPROVED EQUALS: FUJITSU, CARRIER TOSHIBA, AND TRANE

		VRF	INDC	OR E	EQUIPM	IENT SO	CHEDU	JLE (CE	EILI	NG (CAS	SETTE)
		С	OOLING CAPACIT	Y	HEATING CAPACITY	MODEL NO	. DATA	ELECT	RICAL				
MARK NO.	NOMINAL FAN CFM	TOTAL CAPACITY (MBH)	CONDENSER E.A.T.	EVAPORATOR E.W.B. TEMP.	HIGH TEMP 47° E.A.T. (MBH)	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	VOLTAGE	MCA (A)	REC. FUSE (A)	NET WEIGHT (LBS.)	ASSOCIATED OUTDOOR UNIT	NOTES
$\left\langle \begin{array}{c} CS \\ 1-1 \end{array} \right\rangle$	390	15.0	95	80/67	17.0	MITSUBISHI	PLFY-P15	208/230-1-60	0.35	15	37	HRU-1	SEE BELOW
$\overline{\binom{\text{CS}}{1-2}}$	390	15.0	95	80/67	17.0	MITSUBISHI	PLFY-P15	208/230-1-60	0.35	15	37	HRU-1	SEE BELOW
$\overline{\binom{\text{CS}}{1-3}}$	390	15.0	95	80/67	17.0	MITSUBISHI	PLFY-P15	208/230-1-60	0.35	15	37	HRU-1	SEE BELOW
$\overline{\binom{CS}{1-4}}$	315	8.0	95	80/67	9.0	MITSUBISHI	PLFY-P08	208/230-1-60	0.30	15	35	HRU-1	SEE BELOW
$\overline{)}$	315	8.0	95	80/67	9.0	MITSUBISHI	PLFY-P08	208/230-1-60	0.30	15	35	HRU-1	SEE BELOW
$\begin{pmatrix} CS \\ 2-1 \end{pmatrix}$	1,095	36.0	95	80/67	40.0	MITSUBISHI	PLFY-EP36	208/230-1-60	0.92	15	66	HRU-2	SEE BELOW
$\begin{pmatrix} CS \\ 2-2 \end{pmatrix}$	460	18.0	95	80/67	20.0	MITSUBISHI	PLFY-P18	208/230-1-60	0.50	15	37	HRU-2	SEE BELOW
$\begin{pmatrix} CS \\ 2-3 \end{pmatrix}$	460	18.0	95	80/67	20.0	MITSUBISHI	PLFY-P18	208/230-1-60	0.50	15	37	HRU-2	SEE BELOW
$\left(\begin{array}{c} CS \\ \hline 3-1 \end{array} \right)$	390	15.0	95	80/67	17.0	MITSUBISHI	PLFY-P15	208/230-1-60	0.35	15	37	HRU-3	SEE BELOW
$\left\langle \begin{array}{c} CS\\ \hline 3-2 \end{array} \right\rangle$	280	5.0	95	80/67	5.6	MITSUBISHI	PLFY-P05	208/230-1-60	0.24	15	35	HRU-3	SEE BELOW
$\left(\begin{array}{c} CS\\ \hline 3-3 \end{array} \right)$	335	12.0	95	80/67	13.5	MITSUBISHI	PLFY-P12	208/230-1-60	0.30	15	37	HRU-3	SEE BELOW
$\left(\begin{array}{c} CS\\ \hline 3-4 \end{array} \right)$	280	5.0	95	80/67	5.6	MITSUBISHI	PLFY-P05	208/230-1-60	0.24	15	35	HRU-3	SEE BELOW
$\overline{(CS)}$	335	12.0	95	80/67	13.5	MITSUBISHI	PLFY-P12	208/230-1-60	0.30	15	37	HRU-3	SEE BELOW
$\overline{(CS)}$	335	12.0	95	80/67	13.5	MITSUBISHI	PLFY-P12	208/230-1-60	0.30	15	37	HRU-3	SEE BELOW
CS 3-7	280	5.0	95	80/67	5.6	MITSUBISHI	PLFY-P05	208/230-1-60	0.24	15	35	HRU-3	SEE BELOW
CS 3-8	280	5.0	95	80/67	5.6	MITSUBISHI	PLFY-P05	208/230-1-60	0.24	15	35	HRU-3	SEE BELOW
$\left(\begin{array}{c} CS\\ \hline 3-9 \end{array} \right)$	335	12.0	95	80/67	13.5	MITSUBISHI	PLFY-P12	208/230-1-60	0.30	15	37	HRU-3	SEE BELOW
CS 3-10	335	12.0	95	80/67	13.5	MITSUBISHI	PLFY-P12	208/230-1-60	0.30	15	37	HRU–3	SEE BELOW
CS 3-11	280	5.0	95	80/67	5.6	MITSUBISHI	PLFY-P05	208/230-1-60	0.24	15	35	HRU-3	SEE BELOW
TOTAL		233.0			261.5								

1 ALL UNITS TO INCLUDE INTERNAL FACTORY CONDENSATE PUMP.

- 2 ALL UNITS TO INCLUDE WALL MOUNTED SMART ME CONTROLLER AND WALL MOUNTED REMOTE TEMPERATURE SENSOR. 3 REFRIGERANT R-410A.
- (4) UNLESS OTHERWISE NOTED, ALL CASSETTE UNITS SHALL BE 24"X24" TO MATCH STANDARD LAY-IN CEILING TILE GRID.
- (5) CASSETTE UNIT CS-2-1 SHALL BE 33"X33" AND SHALL INCLUDE 48"X48" FACTORY CEILING PANEL.
- (6) CASSETTE UNIT FRAME SHALL NOT IMPEDE ACCESS TO ADJACENT ITEMS SUCH AS CEILING LIGHTS, ETC.
- 7 ALL UNITS TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT MOUNTED INSIDE CEILING CASSETTE PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED UNIT.
- 8 UNIT TO INCLUDE UV-C PROTECTION. EQUIPMENT SHALL BE FRESH-AIRE UV (OR APPROVED EQUAL).
- (9) OUTSIDE AIR IS SUPPLIED THROUGH OUTSIDE AIR UNIT DIRECTLY INTO SPACE.
- (10) ALL UNITS TO INCLUDE FACTORY START-UP.
- 1) CEILING CASSETTE UNITS CS-2-1, CS-2-2, AND CS-2-3: INDOOR UNITS SHALL BE CONFIGURED FOR AUTO MODE AND DUAL SET POINT (HEATING AND COOLING). SYSTEM SHALL BE CONFIGURED FOR SPECIFIC/PRIORITY ZONE TO ALLOW FOR AUTOMATIC MODE CHANGE AND DUAL SET POINT. SPECIFIC/PRIORITY ZONE SHALL BE SET FOR UNIT CS-2-1 (CONCESSIONS). MODE CHANGE WILL ONLY OCCUR AT THIS THERMOSTAT. REMAINING INDOOR UNITS WILL BE ABLE TO CHANGE TEMPERATURE, FAN SPEED, LOUVER CONTROL, ETC.

APPROVED EQUALS: FUJITSU, CARRIER TOSHIBA, AND TRANE

SEE HVAC VARIABLE REFRIGERANT FLOW DIAGRAM, VRF REFRIGERANT PIPING NOTES, PIPING AND CONTROLS LIST ON SHEET M2.4 AND M2.5 FOR ADDITIONAL INFORMATION.

HVAC SCHEDULES

ADDITIONS AND ALTERATIONS TO: HOMER SMILES STADIUM 1771 WHITMIRE STREET, LEEDS, AL 35094 LEEDS CITY SCHOOLS

LATHAN ARCHITECTS

Em No.14192 PROFESSIONAL TONGINE 08-13-2024

HVAC SCHEDULES

SHEET TITLE:

RDW PROJ. MGR.: DRAWN: JH

DATE: JUNE 28, 2024 REVISIONS

JOB NO. 23-125 SHEET NO:

M1.3 3 OF 14 1"

HVAC – PLUMBING – PROCESS CONTROL

25 SUMMERALL GATE ROAD

ANNISTON, ALABAMA 36205

RANDALL WHORTON, P.E. PHONE: (256) 820–9897

		V	RF IN	IDOO	R EQU		SCHI	EDULE	(WA	۱LL	MO	UNT)	
		C	COOLING CAPACI	ſY	HEATING CAPACITY	MODEL NO	D. DATA	ELEC	TRICAL				
MARK NO.	NOMINAL FAN CFM	TOTAL CAPACITY (MBH)	CONDENSER E.A.T.	EVAPORATOR E.W.B. TEMP.	HIGH TEMP 47* E.A.T. (MBH)	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	VOLTAGE	MCA (A)	MOCP (A)	NET WEIGHT (LBS.)	ASSOCIATED OUTDOOR UNIT	NOTES
(WM) (1-1)	350	15.0	95	80/67	17.0	MITSUBISHI	PKFY-P15	208/230-1-60	0.24	15	29	HRU-1	SEE BELOW
WM 1-2	295	12.0	95	80/67	13.5	MITSUBISHI	PKFY-P12	208/230-1-60	0.24	15	25	HRU-1	SEE BELOW
(WM) (1-3)	350	15.0	95	80/67	17.0	MITSUBISHI	PKFY-P15	208/230-1-60	0.24	15	29	HRU-1	SEE BELOW
WM 1-4	295	12.0	95	80/67	13.5	MITSUBISHI	PKFY-P12	208/230-1-60	0.24	15	25	HRU-1	SEE BELOW
WM 1-5	190	6.0	95	80/67	6.7	MITSUBISHI	PKFY-P06	208/230-1-60	0.24	15	25	HRU-1	SEE BELOW
WM 1-6	295	12.0	95	80/67	13.5	MITSUBISHI	PKFY-P12	208/230-1-60	0.24	15	25	HRU-1	SEE BELOW
WM 1-7	295	12.0	95	80/67	13.5	MITSUBISHI	PKFY-P12	208/230-1-60	0.24	15	25	HRU-1	SEE BELOW
WM 1-8	295	12.0	95	80/67	13.5	MITSUBISHI	PKFY-P12	208/230-1-60	0.24	15	25	HRU-1	SEE BELOW
TOTAL		96.0		•	108.2		•	•	-		•		
1 2 3 4 5 6	UNIT TO INC (CONDENSAT UNIT TO INC REFRIGERAN UNIT TO INC PER MANUF/ UNIT TO INC ALL UNITS T	CLUDE FACTORY TE PUMP APPRO CLUDE WALL MC T R-410A. CLUDE BIOCLIMA ACTURER'S REC CLUDE UV-C PI	CONDENSATE F DVED EQUALS: L DUNTED SMART I TIC (OR APPROY OMMENDATION. ROTECTION. EQ CTORY START-U	PUMP WITH LINE ITTLE GIANT EC- ME CONTROLLER VED EQUAL) BI- IONIZATION UNI UIPMENT SHALL P.	SET/CONDENSATE PUM -1K AND ASPEN/AIRTEC AND WALL MOUNTED F POLAR IONIZATION UNIT T SHALL BE POWERED BE FRESH—AIRE UV (C	P ENCLOSURE KIT. MINI AND MAXI LIME) REMOTE TEMPERATURE MOUNTED INSIDE WAL FROM ASSOCIATED UNI R APPROVED EQUAL).	SENSOR. L MOUNT UNIT T.						

ENERGY RECOVERY VENTILATION UNIT SCHEDULE

				FYT			MOTOR				UNIT	
MARK NO.	TYPE	OSA CFM	EXHAUST CFM	STATIC (IN WC)	MINIMUM EFFICIENCY	HP	VOLTS	PHASE	(OR APPROVED EQUAL)	UNIT MODEL NO.	SHIPPING WEIGHT (LBS.)	NOTES
ERV 1	VERTICAL	1,200	1,100	1	70%	1	208	3	RENEWAIRE	HE1.5XINV	571	SEE BELOW
ERV 2	VERTICAL	1,200	1,190	1	70%	1	208	3	RENEWAIRE	HE1.5XINV	571	SEE BELOW
TOTAL		2,400	2,290									

UNIT TO INCLUDE BIOCLIMATIC (OR APPROVED EQUAL) BI-POLAR IONIZATION UNIT (NEEDLEPOINT) MOUNTED IN UNIT RETURN DUCT PER MANUFACTURER'S RECOMMENDATION. IONIZATION UNIT SHALL BE POWERED FROM ASSOCIATED AIR HANDLER.

- 2 STATIC PLATE, HEAT AND HUMIDITY TRANSFER.
- (3) UNIT TO INCLUDE OUTSIDE AIR AND EXHAUST AIR MOTORIZED INSULATED LOW LEAKAGE DAMPERS.
- (4) SUMMER INDOOR DESIGN: 75°F D.B., 50% RH - WINTER INDOOR DESIGN: 72°F D.B., 35% RH.
- (5) UNIT TO INCLUDE MODULATING FAN VFD'S
- (6) UNIT TO INCLUDE DIRTY FILTER SENSORS (OUTDOOR AND EXHAUST).
- 7 SUBMITTAL SHALL INCLUDE WINTER EAT OF 20.8 DEGREES.
- 8 SUBMITTAL TO INCLUDE ASHRAE SUMMER DESIGN (95.6/74.6), DEHUMIDIFICATION (82.8/77.67) AND EVAPORATION (88.5/78.4) DESIGN FOR OUTSIDE AIR CONDITIONS.
- (9) UNIT SHALL INCLUDE FACTORY LOW LEAKAGE MOTORIZED ISOLATION DAMPERS (FA AND EA).
- (1) UNIT SHALL INCLUDE FACTORY INSTALLED VFD FOR SOFT START.
- (1) UNIT SHALL BE ASHRAE 90.1-2013 COMPLIANT.

APPROVED EQUALS: CAPTIVE AIRE, LOREN COOK, AND SEMCO

			E		021	FAN 3	CHEDUI	-E		
MARK NO.	MOUNTING	CFM	STATIC IN W.G.	SONES	WATTS	VOLTAGE	MANUFACTURER (OR APPROVED EQUAL)	MODEL NO.	WEIGHT (LBS.)	NOTES
$\left(\begin{array}{c} EF \\ 1-1 \end{array} \right)$	CEILING	450	0.25	3.8	215	115-1-60	LOREN COOK	GC-740	36	123
$\left(\begin{array}{c} EF \\ 1-2 \end{array} \right)$	CEILING	450	0.25	3.8	215	115-1-60	LOREN COOK	GC-740	36	123
$\left(\begin{array}{c} EF \\ 2-1 \end{array} \right)$	CEILING	75	0.25	1.6	55	115-1-60	LOREN COOK	GC-142	15	123
$\left(\begin{array}{c} EF \\ 2-2 \end{array} \right)$	CEILING	75	0.25	1.6	55	115-1-60	LOREN COOK	GC-142	15	123
EF 2-3	CEILING	75	0.25	1.6	55	115-1-60	LOREN COOK	GC-142	15	1 3 4
$\left(\begin{array}{c} EF \\ 2-4 \end{array} \right)$	CEILING	85	0.25	1.6	80	115-1-60	LOREN COOK	GC-164	15	123
EF 2-5	CEILING	125	0.25	1.7	90	115-1-60	LOREN COOK	GC-340	25	123
$\left(\begin{array}{c} EF \\ 2-6 \end{array} \right)$	CEILING	125	0.25	1.7	90	115-1-60	LOREN COOK	GC-340	25	123
$\left\langle \begin{array}{c} EF\\ G1 \end{array} \right\rangle$	CEILING	75	0.25	1.6	55	115-1-60	LOREN COOK	GC-142	15	1235

(1) FAN TO INCLUDE FACTORY MOUNTED/PRE-WIRED FAN SPEED CONTROL.

2 FAN TO BE SWITCHED WITH LIGHTING.

- (3) FAN TO INCLUDE CEILING RADIATION DAMPER.
- (4) FAN TO BE SWITCHED WITH WALL SWITCH.
- (5) FAN TO DISCHARGE TO FACTORY ALUMINUM WALL CAP. REFERENCE PLANS FOR ADDITIONAL INFORMATION.

APPROVED EQUALS: BREIDERT, GREENHECK, AND PENN.

HVAC SCHEDULES AND DETAILS

LATHAN

ARCHITECTS

DATE: JUNE 28, 2024 REVISIONS

4 OF 14

1"

WHORTON ENGINEERING, INC.

HVAC - PLUMBING - PROCESS CONTROL

RANDALL WHORTON, P.E.

PHONE: (256) 820-9897

25 SUMMERALL GATE ROAD

ANNISTON, ALABAMA 36205

LOWER L **ADDITIONS / ALTERATIONS TO HOMER SMI** 2021 IMC TABLE 403.3 COMP

			OUTDOOR AI	R CALCULAT	IONS		107		70			REQUIRED	DESIGN		E	EXHAUST AII	२		
ROOM NAME	AREA (SF)	(QTY)	PEOPLE (CFM/PERSON)	AREA (CFM/SF)	TOTAL (VOU)	EZ	CFM	CFM	VOZ/VPZ	EV	VOT	ÓSA CFM	OSA CFM	CFM/SF	FIXTURES	UNIT	REQUIRED CFM	DESIGN CFM	UNIT
CORRIDOR	677	0	0.0	0.06	41	1	41						305						ERV-1/OSA-1
CORRIDOR	568	0	0.0	0.06	34	1	34						240						ERV-1/OSA-1
TRAINING	336	6	5.0	0.06	50	1	50						240						ERV-1/OSA-1
NUTRITION	171	1	5.0	0.06	15	1	15						235						ERV-1/OSA-1
EQUIPMENT (LAUNDRY)	330	3	5.0	0.12	55	1	55						120						ERV-1/OSA-1
TOILET	75														1	75	75	100	ERV-1/OSA-1
JANITOR	65														1	75	75	75	ERV-1/OSA-1
SOCCER (LOCKER ROOM)	329													0.5			165	170	ERV-1/OSA-1
BASEBALL (LOCKER ROOM)	332													0.5			166	170	ERV-1/OSA-1
LOCKER ROOM (GIRLS)	210													0.5			105	105	ERV-1/OSA-1
GIRLS	646														2/3	50/75	325	325	ERV-1/OSA-1
BOYS	638												400		2/3	50/75	325	400	ERV-2/OSA-2
VARSITY (LOCKER ROOM)	1,580												800	0.5			790	790	ERV-2/OSA-2
CONCESSIONS	532	6	7.5	0.12	109	0.8	136						140						SEE NOTE 1
MEN	359														6	75	450	450	EF-1-1
WOMEN	384														6	75	450	450	EF-1-2
		STAND WIN	DOWS																

 \cup

UPPER LEVEL **ADDITIONS / ALTERATIONS TO HOMER SMILES STADIUM - LEEDS CITY SCHOOLS 2021 IMC TABLE 403.3 COMPLIANCE CALCULATIONS**

	ARFA		OUTDOOR AI	R CALCULAT	IONS		VOZ		70			REQUIRED	DESIGN		E	EXHAUST AIR	R		
ROOM NAME	(SF)	(QTY)	PEOPLE (CFM/PERSON)	AREA (CFM/SF)	TOTAL (VOU)	EZ	CFM	ĊFM	voz/vpz	EV	VOT	OSA CFM	OSA CFM	CFM/SF	FIXTURES	UNIT	REQUIRED CFM	DESIGN CFM	UNIT
MEETING	2,064	90			— SEE M	EETING ROC	M BIOCLIMA	TIC IAQ CAL	CULATIONS				450						HP-2-1/HP-2-2
MEDIA ROOM	142	1	5.0	0.06	14	0.8	17	250	0.07										HP-2-3
CORRIDOR	309	0	0.0	0.06	19	0.8	23	125	0.19										HP-2-3
HEAD COACH	388	1	5.0	0.06	28	0.8	35	100	0.35										HP-2-3
OFFICE	114	1	5.0	0.06	12	0.8	15	50	0.30										HP-2-3
BREAK	200	4	5.0	0.06	32	0.8	40	350	0.11										HP-2-3
PRESSBOX	191	2	5.0	0.06	21	0.8	27	75	0.36										HP-2-3
CORRIDOR	326	0	0.0	0.06	20	0.8	24	100	0.24										HP-2-3
COACH	158	1	5.0	0.06	14	0.8	18	50	0.36										HP-2-3
COACH	225	1	5.0	0.06	19	0.8	23	75	0.31										HP-2-3
COACH	229	1	5.0	0.06	19	0.8	23	75	0.31										HP-2-3
COACH	159	1	5.0	0.06	15	0.8	18	50	0.36										HP-2-3
COACH	156	1	5.0	0.06	14	0.8	18	50	0.36										HP-2-3
COACH	212	1	5.0	0.06	18	0.8	22	75	0.30										HP-2-3
COACH	216	1	5.0	0.06	18	0.8	22	75	0.30										HP-2-3
COACH	158	1	5.0	0.06	14	0.8	18	50	0.36										HP-2-3
TOTAL (HP-2-3)					276					0.79	349	349	350						HP-2-3
TOILET	75														1	75	75	75	EF-2-1
TOILET	73														1	75	75	75	EF-2-2
JANITOR	54														1	75	75	75	EF-2-3
LOCKER ROOM	170													0.5			85	85	EF-2-4
TOILET	109														1/1	50/75	125	125	EF-2-5
TOILET	90														1/1	50/75	125	125	EF-2-6

.EVEL
ILES STADIUM - LEEDS CITY SCHOOLS
PLIANCE CALCULATIONS

PHONE: (256) 820-9897

WHORTON ENGINEERING PROJECT NO. 24138

ANNISTON, ALABAMA 36205

(ASHRAE Standa	© rd 62-99, "Require) 199 ∍d Ou
Contaminant:	Ammonia	
Project:	MEETING RM	
Representative:	WHORTON EN	۱G.
Date:	July 12, 2024	
Notes:	Application	
	TA (cfm/p)	
	OA (cfm/p)	
	AC/Hr	
	(Notes)	
# of Occupants		90
Contaminant Generation Rate	5.16	30E-0
Smoking in space		
# of cigarettes / nour / person		
Ventilation Effectiveness		0.
Recirculation Flow Factor		0.89
Volumetric Return Air Flow		355
Gas Phase Filtration Media Used		
GPF Efficiency		30%
O/A Contaminant Concentration	7.4913	36E-1
Volumetric Outdoor Air Flow		45
Molecular Wt. of Contaminant		1
Outside Air Cas Phase Eiltration		

HVAC IAQ / COMPLIANCE CALCULATIONS

HVAC VARIABLE REFRIGERANT FLOW DIAGRAM

NOT TO SCALE

VARIABLE REFRIGERANT FLOW DIAGRAM FOR HRU-3, OSA-1 AND OSA-2

F	PIPING LIST
SYMBOL	BRANCH PIPE MODEL NAME
J1	CMY-R302S-G1
J2	CMY-R301S-G
J3	CMY-R160-J1
H1	CMY-Y104C-G
SYMBOL	LIQUID PIPE/GAS PIPE SIZE
P1	1/4 / 1/2
P2	7/8 / 1-1/8
P3	3/8 / 5/8
P4	3/8 / 7/8
P5	3/4 / 7/8
P6	3/4 / 1-1/8

FUSE

3~

OSA-1

P120TNU-A

PURY-

L1L2L3 TB7

078

G

TB3

LOWER LEVEL HVAC PLAN

DIFFUSER SCHEDULE

Size	Туре	Neck Size	Model Number	Manufacturer	Notes
1"X24"	SUPPLY	6''ø	TDC	TITUS	
1"X24"	SUPPLY	8''ø	TDC	TITUS	
1"X24"	SUPPLY	10"ø	TDC	TITUS	
1"X24"	SUPPLY	10"ø	TDCA	TITUS	ADJUSTABLE DISCHARGE
2 " X12"	SUPPLY	6"ø	TDC-AA	TITUS	ALUMINUM
2 " X12"	SUPPLY	8''ø	TDC-AA	TITUS	ALUMINUM
1"X24"	RETURN	23X23	8RF	TITUS	1"FILTER
1"X24"	TRANSFER	23X23	8F	TITUS	ALUMINUM
6"X16"	SUPPLY	14X14	8F	TITUS	ALUMINUM
1"X24"	SUPPLY	23X23	8F	TITUS	ALUMINUM
1"X24"	EXHAUST	23X23	8FF	TITUS	ALUMINUM/1" FILTER
1"X24"	EXHAUST	23X23	8FF	TITUS	ALUMINUM/1" FILTER
6"X16"	EXHAUST	14X14	8FF	TITUS	ALUMINUM/1" FILTER
1"X24"		23X23	8F	TITUS	ALUMINUM
1"X24"		23X23	8F	TITUS	ALUMINUM
8"X6"	EXHAUST		63FL	TITUS	ALUMINUM
2"X12"	EXHAUST		63FL	TITUS	ALUMINUM
8"X6"	TRANSFER		63FL	TITUS	ALUMINUM

NOTE: FURNISH AND INSTALL AN INSULATION BLANKET ON THE BACK OF ALL CEILING MOUNTED DIFFUSERS AND GRILLES.

/-14"X14" RUSKIN NMS2 NON-METALLIC BACKDRAFT DAMPER

14"X14" RUSKIN NMS2 NON-METALLIC BACKDRAFT DAMPER

\ 3

PROJ. MGR.:

DRAWN:

DATE:

REVISIONS

RDW

DC

JUNE 28, 2024

JOB NO. 23-125

M3.1

10 OF 14

1"

SHEET NO:

HVAC SHEET NOTES

OUTSIDE AIR MOTORIZED DAMPER SHALL BE 120V. NORMALLY CLOSED AND INTERLOCKED TO OPEN WHEN THE ROOM LIGHTS ARE "ON". ALL LOUVERS SHALL INCLUDE A 18" PLENUM BOX IN INTERIOR OF LOUVER. SIZE TO MATCH LOUVER WIDTH AND HEIGHT.

REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING

HVAC - PLUMBING - PROCESS CONTROL RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD PHONE: (256) 820-9897 ANNISTON, ALABAMA 36205

H	VA	C	S	HE	EΤ	N	01	ΓES
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1	OUTSIDE AIR MOTORIZED DAMPER SHALL BE 120V. NORMALLY CLOSED AND INTERLOCKED TO OPEN WHEN THE ROOM LIGHTS ARE "ON".
2>	ALL LOUVERS SHALL INCLUDE A 18" PLENUM BOX IN INTERIOR OF LOUVER SIZE TO MATCH LOUVER WIDTH AND HEIGHT.
3>	UNIT LOCATIONS IN ATTIC SHALL BE CLOSELY COORDINATED WITH STRUCTUR
4>	ALL DUCT LOCATED IN ATTIC SHALL BE CLOSELY COORDINATED WITH STRUCTURAL.

REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING

HVAC — PLUMBING	- PROCESS CONTROL
RANDALL WHORTON, P.E. phone: (256) 820–9897	25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

HVAC SHEET NOTES

OUTSIDE AIR MOTORIZED DAMPER SHALL BE 120V. NORMALLY CLOSED AND INTERLOCKED TO OPEN WHEN THE ROOM LIGHTS ARE "ON".
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HVAC - PLUMBING - PROCESS CONTROL							
RANDALL WHORTON, P.E. 25 SUMMERALL GATE ROAD PHONE: (256) 820–9897 ANNISTON, ALABAMA 36205							
WHORTON ENGINEERING PROJECT NO. 24138							

LOWER AND UPPER LEVEL HVAC REFRIGERANT PIPING PLANS SCALE: 1/8" = 1'-0"9 1 2 3 4 5 10 15 25 50

LOWER LEVEL HVAC REFRIGERANT PIPING PLAN

UPPER LEVEL HVAC REFRIGERANT PIPING PLAN

PIPING BRANCH	UNIT MARK #	MAX DISTANCE (FT)	REFRIG. ZONE	REFRIG. AREA ZONE (SF)	REFRIG. ZONE VOLUME (CF)	2021 IMC TABLE - AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8	LIQUID LINE (INCHES)	GAS SIZE (INCHES)	PIPING LBS/FT	MAX PIPING REFRIG. (LBS)	MAX UNIT CHARGE (LBS)	MAX TOTAL CHARGE (LBS)	2015 IMC 1104.4 COMPLIANCI
INDOOR TO BC	CS 1-1	131	ZONE 1	6416	S1328	1,33S	0.25	0.SO	0.01440	1.89		1.89	YES
INDOOR TO BC	CS 1-2	131	ZONE 1	6416	S1328	1,33S	0.25	0.S0	0.01440	1.89		1.89	YES
INDOOR TO BC	CS 1-3	131	ZONE 1	6416	S1328	1,33S	0.25	0.S0	0.01440	1.89		1.89	YES
INDOOR TO BC	CS 1-4	131	ZONE 1	6416	S1328	1,33S	0.25	0.SO	0.01440	1.89		1.89	YES
INDOOR TO BC	CS 1-S	131	ZONE 1	6416	S1328	1,33S	0.25	0.S0	0.01440	1.89		1.89	YES
INDOOR TO BC	WM 1-1	131	ZONE 1	6416	S1328	1,33S	0.25	0.SO	0.01440	1.89		1.89	YES
INDOOR TO BC	WM 1-2	131	ZONE 1	6416	S1328	1,33S	0.25	0.S0	0.01440	1.89		1.89	YES
INDOOR TO BC	WM 1-3	131	ZONE 1	6416	S1328	1,33S	0.2S	0.SO	0.01440	1.89		1.89	YES
INDOOR TO BC	WM 1-4	131	ZONE 1	6416	S1328	1,335	0.25	0.S0	0.01440	1.89		1.89	YES
INDOOR TO BC	WM 1-S	131	ZONE 1	6416	S1328	1,33S	0.2S	0.S0	0.01440	1.89		1.89	YES
INDOOR TO BC	WM 1-6	131	ZONE 1	6416	S1328	1,33S	0.25	0.SO	0.01440	1.89		1.89	YES
INDOOR TO BC	WM 1-7	131	ZONE 1	6416	S1328	1,33S	0.25	0.S0	0.01440	1.89		1.89	YES
INDOOR TO BC	WM 1-8	131	ZONE 1	6416	S1328	1,335	0.2S	0.S0	0.01440	1.89		1.89	YES
BC TO OUTDOOR	HRU-1	360	ZONE 1	6416	S1328	1,33S	0.875	1.125	0.21690	78.08	23.7S	101.834	YES
TOTAL ZONE 1				6416	51328	1,335						126.36	YES
INDOOR TO BC	CS 2-1	131	ZONE 2		4256	111	0.375	0.625	0.04375	S.73		S.73	YES
INDOOR TO BC	CS 2-2	131	ZONE 2	S32	4256	111	0.25	0.50	0.01440	1.89		1.89	YES
INDOOR TO BC	CS 2-3	131	ZONE 2	S32	4256		0.25	0.50	0.01440	1.89		1.89	YES
HEADER TO OUTDOOR	HRU-2	360	ZONE 2	S32	4256	111	0.375	0.87S	0.03940	14.18	14.3	28.484	YES
TOTAL ZONE 2				532	4256	111						37.99	YES

6 SYSTEM CLASSIFICATION (2021 IMC 1103.3) = HIGH PROBABILITY

7 REFRIGERANT CLASSIFICATION (2021 IMC TABLE 1103.1) 8 2021 IMC TABLE 1103.1 - AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 26 LBS/1000 CF

2021 IMC CHAPTER 11 COMPLIANCE CALCULATIONS

HOMER SMILES STADIUM UPPER LEVEL REFRIGERANT CALCULATIONS

UNIT MARK #	MAX DISTANCE (FT)	REFRIG. ZONE	REFRIG. AREA ZONE (SF)	REFRIG. ZONE VOLUME (CF)	2021 IMC TABLE - AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8	LIQUID LINE (INCHES)	GAS SIZE (INCHES)	PIPING LBS/FT	MAX PIPING REFRIG. (LBS)	MAX UNIT CHARGE (LBS)	MAX TOTAL CHARGE (LBS)	2015 IMC 1104.4 COMPLIANCE
CS 3-1	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-2	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-3	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-4	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-5	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-6	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-7	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-8	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-9	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-10	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
CS 3-11	131	ZONE 3	5931	47448	1,234	0.25	0.50	0.01440	1.89		1.89	YES
HRU-3	360	ZONE 3	5931	47448	1,234	0.750	0.875	0.16130	58.07	17.625	75.693	YES
			S931	47448	1,234						96.44	YES
	UNIT MARK # CS 3-1 CS 3-2 CS 3-3 CS 3-4 CS 3-5 CS 3-6 CS 3-7 CS 3-8 CS 3-9 CS 3-10 CS 3-11 HRU-3	UNIT MARK #MAX DISTANCE (FT)CS 3-1131CS 3-2131CS 3-3131CS 3-4131CS 3-5131CS 3-6131CS 3-7131CS 3-8131CS 3-9131CS 3-10131CS 3-11131HRU-3360	UNIT MARK # MAX DISTANCE (FT) REFRIG. ZONE CS 3-1 131 ZONE 3 CS 3-2 131 ZONE 3 CS 3-2 131 ZONE 3 CS 3-3 131 ZONE 3 CS 3-4 131 ZONE 3 CS 3-5 131 ZONE 3 CS 3-6 131 ZONE 3 CS 3-7 131 ZONE 3 CS 3-9 131 ZONE 3 CS 3-10 131 ZONE 3 HRU-3 360 ZONE 3	UNIT MARK # MAX DISTANCE (FT) REFRIG. ZONE REFRIG. AREA ZONE (S) CS 3-1 131 ZONE 3 5931 CS 3-2 131 ZONE 3 5931 CS 3-2 131 ZONE 3 5931 CS 3-3 131 ZONE 3 5931 CS 3-4 131 ZONE 3 5931 CS 3-5 131 ZONE 3 5931 CS 3-5 131 ZONE 3 5931 CS 3-6 131 ZONE 3 5931 CS 3-7 131 ZONE 3 5931 CS 3-9 131 ZONE 3 5931 CS 3-10 131 ZONE 3 5931 CS 3-11 131 ZONE 3 5931 HRU-3 360 ZONE 3 5931	UNIT MARK #MAX DISTANCE (FT)REFRIG. ZONEREFRIG. AREA ZONE (SF)REFRIG. ZONE (SF)REFRIG. ZONE VOLUME (CF)CS 3-1131ZONE 3593147448CS 3-2131ZONE 3593147448CS 3-3131ZONE 3593147448CS 3-4131ZONE 3593147448CS 3-5131ZONE 3593147448CS 3-6131ZONE 3593147448CS 3-7131ZONE 3593147448CS 3-8131ZONE 3593147448CS 3-9131ZONE 3593147448CS 3-10131ZONE 3593147448CS 3-11131ZONE 3593147448HRU-3360ZONE 3 <td>UNIT MARK #MAX DISTANCE (FT)REFRIG. ZONEREFRIG. AREA ZONE (SF)REFRIG. ZONE VOLUME (CF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8CS 3-1131ZONE 35931474481,234CS 3-2131ZONE 35931474481,234CS 3-3131ZONE 35931474481,234CS 3-3131ZONE 35931474481,234CS 3-4131ZONE 35931474481,234CS 3-5131ZONE 35931474481,234CS 3-6131ZONE 35931474481,234CS 3-7131ZONE 35931474481,234CS 3-7131ZONE 35931474481,234CS 3-7131ZONE 35931474481,234CS 3-7131ZONE 35931474481,234CS 3-9131ZONE 35931474481,234CS 3-10131ZONE 35931474481,234CS 3-11131ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 3<</td> <td>NIT MARK #MAX DISTANCE (FT)REFRIG. ZONEREFRIG. AREA ZONE (SF)REFRIG. ZONEAMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE (INCHES)CS 3-1131ZONE 35931474481,2340.25CS 3-2131ZONE 35931474481,2340.25CS 3-3131ZONE 35931474481,2340.25CS 3-4131ZONE 35931474481,2340.25CS 3-5131ZONE 35931474481,2340.25CS 3-6131ZONE 35931474481,2340.25CS 3-7131ZONE 35931474481,2340.25CS 3-8131ZONE 35931474481,2340.25CS 3-9131ZONE 35931474481,2340.25CS 3-9131ZONE 35931474481,2340.25CS 3-9131ZONE 35931474481,2340.25CS 3-10131ZONE 35931474481,2340.25CS 3-11131ZONE 35931474481,2340.25CS 3-11131ZONE 35931474481,2340.25CS 3-11131ZONE 35931474481,2340.25CS 3-11131ZONE 35931474481,2340.25HRU-3360ZONE 35931474481,234<td>MAX MARK # DISTANCE (FT)MEFRIG. ZONE ZONEREFRIG. AREA ZONE ZONEREFRIG. COLUPIED (SF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE (INCHES)GAS SIZE (INCHES)CS 3-1131ZONE 3593147448OccupieD SPACE (LBS) - NOTE 80.050CS 3-2131ZONE 35931474481.2340.0250.500CS 3-3131ZONE 35931474481.2340.0250.500CS 3-4131ZONE 35931474481.2340.0250.500CS 3-5131ZONE 35931474481.2340.0250.500CS 3-6131ZONE 35931474481.2340.0250.500CS 3-7131ZONE 35931474481.2340.250.500CS 3-8131ZONE 35931474481.2340.250.500CS 3-9131ZONE 35931474481.2340.250.500CS 3-10131ZONE 35931474481.2340.250.500CS 3-11131ZONE 35931474481.2340.250.501CS 3-11131ZONE 35931474481.2340.250.501CS 3-11131ZONE 35931474481.2340.250.501HRU-3360ZONE 35931474481.2340.250.503HRU-3360ZONE 3<</td><td>UNIT MARK # DISTANCE (FT)MAX REFRIG. ZONEREFRIG. ARA ZONE SONEREFRIG. ARA ZONE (SF)REFRIG. ZONE VOLUME (CF)AMOUNT OF REFRIGERANT PER (IBS) - NOTE 8LIQUID LINE (INCHES)GAS SIZE (INCHES)PIPING LBS/FTCS 3-1131ZONE 35931474481,2340.250.500.01440CS 3-2131ZONE 35931474481,2340.250.500.01440CS 3-3131ZONE 35931474481,2340.250.500.01440CS 3-4131ZONE 35931474481,2340.250.500.01440CS 3-5131ZONE 35931474481,2340.250.500.01440CS 3-6131ZONE 35931474481,2340.250.500.01440CS 3-7131ZONE 35931474481,2340.250.500.01440CS 3-8131ZONE 35931474481,2340.250.500.01440CS 3-7131ZONE 35931474481,2340.250.500.01440CS 3-8131ZONE 35931474481,2340.250.500.01440CS 3-9131ZONE 35931474481,2340.250.500.01440CS 3-9131ZONE 35931474481,2340.250.500.01440CS 3-10131ZONE 3593147448<!--</td--><td>MAX MARK # DISTANCE (FT)REFRIG. ZONE ZONE CONE SONEREFRIG. ZONE (SF)REFRIG. ZONE (CF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE LINE (INCHES)GAS SIZE LINE LI</br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></td><td>MAX DISTANCE (FT)REFRIG. ZONEREFRIG. ARA ZONE (SF)REFRIG. ARA ZONE (SF)REFRIG. COLUME (CF)AMOUNT OF REFRIGERANT PER OCUPIED SPACE (IB) - NOTE 8LIQUID LINE (INCHES)GAS SIZE PIPING (INCHES)MMAX PIPING (IBS/FIMMAX UNIT REFRIG. (IBS)CS 3-1131ZONE 3593147448COLUPIED SPACE (IBS) - NOTE 80.014000.014001.89CS 3-2131ZONE 3593147448AMOUNT OF REFRIG. (IBS) - NOTE 80.014000.014001.89CS 3-3131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-4131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-5131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-6131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-7131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-7131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-7131ZONE 3593147448AMAL 1,2340.2550.0500.014001.89CS 3-9131ZONE 3593147448AMAL 1,2340.2550.0500.014001.89CS 3-101311ZONE 35931<</td><td>MAX MARK #MAX DISTANCE (FT)REFRIG. 2ONEREFRIG. ARE A ZONE (SF)REFRIG. COULUME (CF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE LINCHESGAS SIZE (INCHES)PIPING PIPING LBS/FTMAX PIPING (LBS)MAX TOTAL CHARGE (LBS)CS 3-1131ZONE 35931474481.2340.250.500.014401.891.89CS 3-2131ZONE 35931474481.2340.250.500.014401.891.89CS 3-3131ZONE 35931474481.2340.250.500.014401.891.89CS 3-4131ZONE 35931474481.2340.250.500.014401.891.89CS 3-5131ZONE 35931474481.2340.250.500.014401.891.89CS 3-6131ZONE 35931474481.2340.250.500.014401.891.89CS 3-7131ZONE 35931474481.2340.250.500.014401.891.89CS 3-7131ZONE 35931474481.2340.250.500.014401.891.89CS 3-8131ZONE 35931474481.2340.250.500.014401.891.89CS 3-9131ZONE 35931474481.2340.250.500.014401.891.89CS 3-9<</td></td></td>	UNIT MARK #MAX DISTANCE (FT)REFRIG. ZONEREFRIG. AREA ZONE (SF)REFRIG. ZONE VOLUME (CF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8CS 3-1131ZONE 35931474481,234CS 3-2131ZONE 35931474481,234CS 3-3131ZONE 35931474481,234CS 3-3131ZONE 35931474481,234CS 3-4131ZONE 35931474481,234CS 3-5131ZONE 35931474481,234CS 3-6131ZONE 35931474481,234CS 3-7131ZONE 35931474481,234CS 3-7131ZONE 35931474481,234CS 3-7131ZONE 35931474481,234CS 3-7131ZONE 35931474481,234CS 3-9131ZONE 35931474481,234CS 3-10131ZONE 35931474481,234CS 3-11131ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 35931474481,234HRU-3360ZONE 3<	NIT MARK #MAX DISTANCE (FT)REFRIG. ZONEREFRIG. AREA ZONE (SF)REFRIG. ZONEAMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE (INCHES)CS 3-1131ZONE 35931474481,2340.25CS 3-2131ZONE 35931474481,2340.25CS 3-3131ZONE 35931474481,2340.25CS 3-4131ZONE 35931474481,2340.25CS 3-5131ZONE 35931474481,2340.25CS 3-6131ZONE 35931474481,2340.25CS 3-7131ZONE 35931474481,2340.25CS 3-8131ZONE 35931474481,2340.25CS 3-9131ZONE 35931474481,2340.25CS 3-9131ZONE 35931474481,2340.25CS 3-9131ZONE 35931474481,2340.25CS 3-10131ZONE 35931474481,2340.25CS 3-11131ZONE 35931474481,2340.25CS 3-11131ZONE 35931474481,2340.25CS 3-11131ZONE 35931474481,2340.25CS 3-11131ZONE 35931474481,2340.25HRU-3360ZONE 35931474481,234 <td>MAX MARK # DISTANCE (FT)MEFRIG. ZONE ZONEREFRIG. AREA ZONE ZONEREFRIG. COLUPIED (SF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE (INCHES)GAS SIZE (INCHES)CS 3-1131ZONE 3593147448OccupieD SPACE (LBS) - NOTE 80.050CS 3-2131ZONE 35931474481.2340.0250.500CS 3-3131ZONE 35931474481.2340.0250.500CS 3-4131ZONE 35931474481.2340.0250.500CS 3-5131ZONE 35931474481.2340.0250.500CS 3-6131ZONE 35931474481.2340.0250.500CS 3-7131ZONE 35931474481.2340.250.500CS 3-8131ZONE 35931474481.2340.250.500CS 3-9131ZONE 35931474481.2340.250.500CS 3-10131ZONE 35931474481.2340.250.500CS 3-11131ZONE 35931474481.2340.250.501CS 3-11131ZONE 35931474481.2340.250.501CS 3-11131ZONE 35931474481.2340.250.501HRU-3360ZONE 35931474481.2340.250.503HRU-3360ZONE 3<</td> <td>UNIT MARK # DISTANCE (FT)MAX REFRIG. ZONEREFRIG. ARA ZONE SONEREFRIG. ARA ZONE (SF)REFRIG. ZONE VOLUME (CF)AMOUNT OF REFRIGERANT PER (IBS) - NOTE 8LIQUID LINE (INCHES)GAS SIZE (INCHES)PIPING LBS/FTCS 3-1131ZONE 35931474481,2340.250.500.01440CS 3-2131ZONE 35931474481,2340.250.500.01440CS 3-3131ZONE 35931474481,2340.250.500.01440CS 3-4131ZONE 35931474481,2340.250.500.01440CS 3-5131ZONE 35931474481,2340.250.500.01440CS 3-6131ZONE 35931474481,2340.250.500.01440CS 3-7131ZONE 35931474481,2340.250.500.01440CS 3-8131ZONE 35931474481,2340.250.500.01440CS 3-7131ZONE 35931474481,2340.250.500.01440CS 3-8131ZONE 35931474481,2340.250.500.01440CS 3-9131ZONE 35931474481,2340.250.500.01440CS 3-9131ZONE 35931474481,2340.250.500.01440CS 3-10131ZONE 3593147448<!--</td--><td>MAX MARK # DISTANCE (FT)REFRIG. ZONE ZONE CONE SONEREFRIG. ZONE (SF)REFRIG. ZONE (CF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE LINE (INCHES)GAS SIZE LINE LI</br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></td><td>MAX DISTANCE (FT)REFRIG. ZONEREFRIG. ARA ZONE (SF)REFRIG. ARA ZONE (SF)REFRIG. COLUME (CF)AMOUNT OF REFRIGERANT PER OCUPIED SPACE (IB) - NOTE 8LIQUID LINE (INCHES)GAS SIZE PIPING (INCHES)MMAX PIPING (IBS/FIMMAX UNIT REFRIG. (IBS)CS 3-1131ZONE 3593147448COLUPIED SPACE (IBS) - NOTE 80.014000.014001.89CS 3-2131ZONE 3593147448AMOUNT OF REFRIG. (IBS) - NOTE 80.014000.014001.89CS 3-3131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-4131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-5131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-6131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-7131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-7131ZONE 3593147448AMAL 1,2340.0250.0500.014001.89CS 3-7131ZONE 3593147448AMAL 1,2340.2550.0500.014001.89CS 3-9131ZONE 3593147448AMAL 1,2340.2550.0500.014001.89CS 3-101311ZONE 35931<</td><td>MAX MARK #MAX DISTANCE (FT)REFRIG. 2ONEREFRIG. ARE A ZONE (SF)REFRIG. COULUME (CF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE LINCHESGAS SIZE (INCHES)PIPING PIPING LBS/FTMAX PIPING (LBS)MAX TOTAL CHARGE (LBS)CS 3-1131ZONE 35931474481.2340.250.500.014401.891.89CS 3-2131ZONE 35931474481.2340.250.500.014401.891.89CS 3-3131ZONE 35931474481.2340.250.500.014401.891.89CS 3-4131ZONE 35931474481.2340.250.500.014401.891.89CS 3-5131ZONE 35931474481.2340.250.500.014401.891.89CS 3-6131ZONE 35931474481.2340.250.500.014401.891.89CS 3-7131ZONE 35931474481.2340.250.500.014401.891.89CS 3-7131ZONE 35931474481.2340.250.500.014401.891.89CS 3-8131ZONE 35931474481.2340.250.500.014401.891.89CS 3-9131ZONE 35931474481.2340.250.500.014401.891.89CS 3-9<</td></td>	MAX MARK # DISTANCE (FT)MEFRIG. ZONE ZONEREFRIG. AREA ZONE ZONEREFRIG. COLUPIED (SF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE (INCHES)GAS SIZE (INCHES)CS 3-1131ZONE 3593147448OccupieD SPACE (LBS) - NOTE 80.050CS 3-2131ZONE 35931474481.2340.0250.500CS 3-3131ZONE 35931474481.2340.0250.500CS 3-4131ZONE 35931474481.2340.0250.500CS 3-5131ZONE 35931474481.2340.0250.500CS 3-6131ZONE 35931474481.2340.0250.500CS 3-7131ZONE 35931474481.2340.250.500CS 3-8131ZONE 35931474481.2340.250.500CS 3-9131ZONE 35931474481.2340.250.500CS 3-10131ZONE 35931474481.2340.250.500CS 3-11131ZONE 35931474481.2340.250.501CS 3-11131ZONE 35931474481.2340.250.501CS 3-11131ZONE 35931474481.2340.250.501HRU-3360ZONE 35931474481.2340.250.503HRU-3360ZONE 3<	UNIT MARK # DISTANCE (FT)MAX REFRIG. ZONEREFRIG. ARA ZONE SONEREFRIG. ARA ZONE (SF)REFRIG. ZONE VOLUME (CF)AMOUNT OF REFRIGERANT PER (IBS) - NOTE 8LIQUID LINE (INCHES)GAS SIZE (INCHES)PIPING LBS/FTCS 3-1131ZONE 35931474481,2340.250.500.01440CS 3-2131ZONE 35931474481,2340.250.500.01440CS 3-3131ZONE 35931474481,2340.250.500.01440CS 3-4131ZONE 35931474481,2340.250.500.01440CS 3-5131ZONE 35931474481,2340.250.500.01440CS 3-6131ZONE 35931474481,2340.250.500.01440CS 3-7131ZONE 35931474481,2340.250.500.01440CS 3-8131ZONE 35931474481,2340.250.500.01440CS 3-7131ZONE 35931474481,2340.250.500.01440CS 3-8131ZONE 35931474481,2340.250.500.01440CS 3-9131ZONE 35931474481,2340.250.500.01440CS 3-9131ZONE 35931474481,2340.250.500.01440CS 3-10131ZONE 3593147448 </td <td>MAX MARK # DISTANCE (FT)REFRIG. ZONE ZONE CONE SONEREFRIG. ZONE (SF)REFRIG. ZONE (CF)AMOUNT OF REFRIGERANT PER OCCUPIED SPACE (LBS) - NOTE 8LIQUID LINE LINE (INCHES)GAS SIZE LINE LI</br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></br></td> <td>MAX DISTANCE (FT)REFRIG. 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2 ZONE AREA INCLUDES COMMUNICATING SPACES

4 OCCUPANCY CLASSIFICATION (2021 IMC 1103.2) = COMMERCIAL

5 REFRIGERANT = R-410A

6 SYSTEM CLASSIFICATION (2021 IMC 1103.3) = HIGH PROBABILITY

7 REFRIGERANT CLASSIFICATION (2021 IMC TABLE 1103.1) 8 2021 IMC TABLE 1103.1 - AMOUNT OF REFRIGERANT PER OCCUPIED SPACE = 26 LBS/1000 CF

ATTIC HVAC REFRIGERANT PIPING PLAN

SCALE: 1/8" = 1'-0"0 1 2 3 4 5 10

REFERENCE PLUMBING PLANS FOR CONDENSATE PIPING HVAC - PLUMBING - PROCESS CONTROL RANDALL WHORTON, P.E. phone: (256) 820–9897 25 SUMMERALL GATE ROAD ANNISTON, ALABAMA 36205

LIGHTING FIXTURE SCHEDULE

				LAMPS		MOUNTING	TYPE	RECESS	
МАНК	MANUFACTURER	CATALOG NO.	NO.	WATTS	TYPE	HEIGHT	MOUNTING	DEPTH	HEMARKS
А	METALUX	24CGT5535C	FURNIS	HED WITH F	IXTURE	CEILING	RECESSED	2-1/8"	
A (EM)	METALUX	24CGT5535C-EL14W	FURNIS	hed with f	IXTURE	CEILING	RECESSED	2-1/8"	SEE NOTE 1
В	METALUX	24CGT4535C	FURNIS	hed with f	IXTURE	CEILING	RECESSED	2-1/8"	
B (EM)	METALUX	24CGT4535C-EL14W	FURNIS	hed with f	IXTURE	CEILING	RECESSED	2-1/8"	SEE NOTE 1
С	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDMD-SCLPF	FURNIS	hed with f	IXTURE	CEILING	RECESSED	6"	
C (EM)	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDMD-SCLPF-EM	FURNIS	hed with f	IXTURE	CEILING	RECESSED	6"	SEE NOTE 1
C1			FURNIS	hed with f	IXTURE	CEILING	RECESSED		
D	METALUX	4SNLED-LD4-4600SL- LW-UNV-L840-CD1	FURNIS	hed with f	IXTURE	CEILING	SURFACE		
F4	LUMENWERX	VIA2P-D-WDO-FH-SW- 80CRI-750LMF-40K-4FT- 120V-D1-1C-ACS-AL	FURNIS	hed with f	IXTURE	VERIFY	PENDANT		
F4 (EM)	LUMENWERX	VIA2P-D-WDO-FH-SW- 80CRI-750LMF-40K-4FT- 120V-D1-1C-1EC-AL	FURNIS	hed with f	IXTURE	VERIFY	PENDANT		SEE NOTE 1
F8	LUMENWERX	VIA2P-D-WDO-FH-SW- 80CRI-750LMF-40K-8FT- 120V-D1-1C-ACS-AL	FURNIS	hed with f	IXTURE	VERIFY	PENDANT		
G5	LUMENWERX	CURV2RIP-D-5FT-HLO-SW 90CRI-750LMF-40K-120 D1-1C-BAC-AL-18IN-AL	FURNIS	hed with f	IXTURE	VERIFY	PENDANT		
G6	SPI LIGHTING	AIP11997-L113W-120 4000K-DF_80-DF_DIM1 H05-FB00-SIAMB03-PT64	FURNIS	hed with f	IXTURE	VERIFY	PENDANT		
G8	SPI LIGHTING	AIP12084-L155W-120 4000K-DF_80-DF_DIM1 H05-FB00-SIAMB03-PT64	FURNIS	hed with f	IXTURE	VERIFY	PENDANT		
G10	SPI LIGHTING	AIP12099-L198W-120 4000K-DF_80-DF_DIM1 H05-FB00-SIAMB03-PT64	FURNIS	hed with f	IXTURE	VERIFY	PENDANT		
н	LUMENWERX	VIA4R-WR02-LED-80- 500-35-6FT-UNV-1-W	FURNIS	hed with f	IXTURE	CEILING	RECESSED	3-3/4"	
К	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDMD-SCLPF	FURNIS	hed with f	IXTURE	CEILING	RECESSED	6"	
K (EM)	PATHWAY LIGHTING	6VLFL2X-3000-35K-DA- 6VLEDMD-SCLPF-EM	FURNIS	hed with f	IXTURE	CEILING	RECESSED	6"	SEE NOTE 1
L	MCGRAW-EDISON	ISW-E02-LED-E1- BL4-BZ-TR	FURNIS	hed with f	IXTURE	+9'	BRACKET		
L (EM)	MCGRAW-EDISON	ISW-E02-LED-E1- BL4-BZ-TR-BBB	FURNIS	hed with f	IXTURE	+9'	BRACKET		SEE NOTE 1
М	LUMIERE	303-W1-LED81-3000- 120-T2-XX	FURNIS	hed with f	IXTURE	VERIFY	BRACKET		
N	PHOENIX	VA-W-17LED- WW-FGC-120	FURNIS	hed with f	IXTURE	AS NOTED	BRACKET		
S	HALO	SLD405-8-35- WH-UNV	FURNIS	HED WITH	FIXTURE	CEILING	RECESSED	1.5"	
Х	SURE-LITES	EUX7-R-UNV	FURNIS	hed with f	IXTURE	E ABOVE DOOR	BRACKET		

FEED ALL "EM" FIXTURES WITH SWITCHED AND UNSWITCHED HOT LEGS. UNSWITCHED HOT LEG IS USED FOR VOLTAGE SENSING.

2. VERIFY ALL FIXTURE COLORS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO SUBMITTALS.

3. EQUAL FIXTURES BY LITHONIA, PARKER, COLUMBIA, AND DAYBRITE WILL BE CONSIDERED APPROVED EQUALS.

GENERAL NOTES

- 1. SERVICE TO BUILDING IS 120/208 VOLTS, 3 PHASE, 4 WIRE.
- 2. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING IN SWITCHES.
- VERIFY EXACT LOCATION OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN. 3.
- 4. CONTRACTOR TO VERIFY LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF COUNTERTOPS AND BACKSPLASHES ON ARCHITECTURAL DETAILS 5. AND/OR CASEWORK SHOP DRAWINGS AND ADJUST SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS AS REQUIRED TO AVOID CONFLICTS.
- 6. CONTRACTOR WILL CHECK ALL LIGHTING FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN.
- 7. FURNISH AND INSTALL PLASTER FRAMES FOR ALL RECESSED FIXTURES AS REQUIRED.
- SUPPORT OF ALL LIGHTING FIXTURES TO BE THE RESPONSIBILITY OF THIS CONTRACTOR. FIXTURES TO BE SUPPORTED INDEPENDENT OF CEILING FROM STRUCTURAL MEMBERS OF THE BUILDING. 8.
- ELECTRICAL CONTRACTOR MUST CHECK THE CORRESPONDING MECHANICAL SHEETS AND BE RESPONSIBLE FOR INCLUDING PROPER SERVICE AND CONNECTIONS TO ALL MECHANICAL ITEMS SHOWN THEREON REGARDLESS OF ITS BEING OR NOT BEING SHOWN ON 9. ELECTRICAL SHEETS.
- 10. ALL CONDUIT CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
- 11. COORDINATE SERVICES WITH POWER AND COMMUNICATIONS COMPANIES. REMOVE OR RELOCATE ALL POWER AND COMMUNICATIONS CIRCUITS ABOVE OR BELOW GRADE THAT WOULD OBSTRUCT THE CONSTRUCTION OF THE PROJECT OR CONFLICT IN ANY MANNER WITH COMPLETION OF THE PROJECT OR ANY CODE PERTAINING THERETO. IF UTILITY COMPANY REQUIREMENTS ARE AT VARIANCE WITH THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACT PRICE SHALL INCLUDE THE ADDITIONAL COST.
- 12. IT IS INTENDED THAT SPECIFICATIONS AND PLANS SHALL INCLUDE EVERYTHING REQUIRED AND NECESSARY FOR PROPER AND COMPLETE INSTALLATION OF THE COMPLETE SYSTEMS SHOWN EVEN THOUGH EVERY ITEM MAY NOT BE PARTICULARLY MENTIONED IN DETAIL. THE CONTRACTOR SHALL DELIVER TO OTHER TRADES ANY EQUIPMENT THAT MUST BE INSTALLED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENTS AND COORDINATION OF THE PHYSICAL SIZE OF ALL EQUIPMENT WITH THE ARCHITECTURAL REQUIREMENTS OF THE SPACES INTO WHICH THE EQUIPMENT WILL BE INSTALLED.
- 13. THIS CONTRACTOR SHALL INSTALL EQUIPMENT GROUNDS THROUGHOUT THIS PROJECT, USING GREEN INSULATED GROUND WIRE. USE OF CONDUIT AS THE ONLY GROUND CONDUCTOR WILL NOT BE ALLOWED. (SIZE GROUND WIRES PER N.E.C.)
- REMOVE ALL EXISTING PANELBOARDS, DISCONNECTS, FIXTURES, RECEPTACLES, AUXILIARY SYSTEM DEVICES, CONDUIT, CONDUCTORS, ETC. 14. BEING RENDERED OBSOLETE BY THIS PROJECT.
- 15. WHERE EXISTING REMAINING CIRCUITS ARE BEING INTERRUPTED DUE TO STRUCTURAL AND/OR DESIGN CHANGES, THIS CONTRACTOR WILL EXTEND EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO REMAINING ACTIVE DEVICES.

CODE EXCEPTION NOTE

THIS PROJECT HAS BEEN DESIGNED UNDER ASHRAE 90.1 2013, EXCEPT AS FOLLOWS: WE TAKE EXCEPTION TO SECTION 8.4.2 FOR REQUIRING CONTROLLED RECEPTACLES, AND SECTION 8.4.3 FOR REQUIRING ENERGY MONITORING. WE OFFICIALLY REQUEST THAT THIS PROJECT BE APPROVED WITHOUT THOSE ITEMS.

ELECTRICAL SYMBOLS

	CEILING OUTLET - FLUORESCENT FIXTURE.
$\vdash \bigcirc \dashv$	CEILING OUTLET - FLUORESCENT INDUSTRIAL OR STRIP TYPE.
Сч	WALL OUTLET - INCANDESCENT BRACKET TYPE.
$\vdash \bigcirc \dashv$	WALL OUTLET – FLUORESCENT BRACKET TYPE.
÷	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH P1
+	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT5362A-GRY WITH PT
-⇔ [™] D	WALL OUTLET – ISOLATED GROUND DOUBLE DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYM (THESE ARE ORANGE ISOLATED GROUND TYPE RECEPTACLES)
-∰D D	WALL OUTLET – ISOLATED GROUND DOUBLE DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYM (THESE ARE ORANGE ISOLATED GROUND TYPE RECEPTACLES) MOUNT AT 6" ABOVE COUNTER
	WALL OUTLET - DUPLEX OUTLET, 20A, 125V, GROUNDED, PASS & SEYMOUR PT2095-GRY WITH PT6
	WALL OUTLET – DUPLEX OUTLET, 20A, 125V, GROUNDED, WEATHERPROOF, PASS & SEYMOUR PT209 INSTALL #WIUC10-CAGV WEATHERPROOF COVER. DEVICE SHALL BE LABELED AS "EX
•	FLOOR OUTLET – CONDUIT STUB UP.
Q	CEILING OUTLET - JUNCTION BOX.
~ -J	WALL OUTLET - JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT.
\$	SWITCH OUTLET - AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #1221 - GREY.("N" DENOTES
\$ _D	SWITCH OUTLET - FLUORESCENT DIMMER - LUTRON NOVA-T SERIES #NTF-103P.
\$2	SWITCH OUTLET – AC TYPE, TWO POLE, 20A, 120/277V, HUBBELL #1222 – GREY.
\$3	SWITCH OUTLET – AC TYPE, THREE WAY, 20A, 120/277V, HUBBELL #1223 – GREY.
\$₄	SWITCH OUTLET – AC TYPE, FOUR WAY, 20A, 120/277V, HUBBELL #1224 – GREY.
\$ _м	SWITCH MANUAL MOTOR STARTER, SINGLE POLE WITH OVERLOAD PROTECTION.
\$ P	SWITCH OUTLET – AC TYPE, SINGLE POLE, 20A, 120/277V, HUBBELL #12211LC.
	LIGHTING PANEL - SEE SPECIFICATIONS AND SCHEDULE.
	POWER PANELS – SEE SPECIFICATIONS AND SCHEDULE.
\frown	BRANCH CIRCUIT CONCEALED IN WALL OR CEILING.
~	BRANCH CIRCUIT CONCEALED IN FLOOR OR GROUND.
<u> </u>	HOMERUN TO PANELBOARD – ANY CIRCUIT WITHOUT FURTHER DESIGNATION 2 # 12 & 1 # 12(G) \rightarrow
—Е—	EMPTY CONDUIT $- 3/4$ ".
	BRANCH CIRCUIT EXPOSED.
•	CONDUIT RUN DOWN WALLS, CONCEALED
•	CONDUIT RUN UP WALLS, CONCEALED
5	MOTOR SHOWN 5hp (TYPICAL) OR 🙀 40 AMPS (TYPICAL).
Ð	EXHAUST FAN MOTOR - FRACTIONAL HORSEPOWER.
\boxtimes	MAGNETIC MOTOR STARTER.
Þ	NON-FUSED DISCONNECT SWITCH. (RT - RAINTIGHT).
	FUSED DISCONNECT SWITCH.
A.F.F.	ABOVE FINISHED FLOOR.
VER.	VERIFY LOCATION.
N.E.C.	NATIONAL ELECTRICAL CODE.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
WP	WEATHER PROOF
IG	ISOLATED GROUND
Ð	FIRE ALARM – SMOKE DETECTOR – SEE SPEC.
\bigoplus_{H}	FIRE ALARM – HEAT DETECTOR – SEE SPEC.
F	FIRE ALARM — MANUAL PULL STATION — SEE SPEC.
 F⊾	FIRE ALARM – STROBE LIGHT – SEE SPEC.
	FIRE ALARM - SPEAKER STROBE - SEE SPEC.
FAA	FIRE ALARM ANNUNCIATOR - SEE SPEC
FACP	FIRE ALARM CONTROL PANEL - SEE SPEC.
¢ws	WALL STATION – COOPER $\#$ RC-4STB-0S3 WITH WALL PLATE
ሳ "5 ት "5	LIGHTING CONTROL PANEL OVERRIDE SWITCH - DIGITA 5-18
φ Me	WALL SWITCH WITH RULLT IN MOTION SENSOR $-$ COODED LOSW D 0451 W WITH WALL DU
ታ ^{∞ວ}	WALL SWITCH WITH BUILT IN MUTION SENSOR - COUPER #USW-P-U431-W WITH WALL PL
∇	COMPUTER OUTLET - 3/4" CONDUIT WITH CABLING-SEE SPEC.
$\overline{\Delta}$	COMPUTER OUTLET - 3/4" CONDUIT WITH CABLING-MOUNT 6" ABOVE COUNTER-SEE SPEC
	CCTV SYSTEM - FUTURE CAMERA LOCATION - ABOVE CEILING SHALL BE 1 CAT 6 CABLE (

CEILING OUTLET - FIXTURE "A", CIRCUIT 1, SWITCH a.

COLOR CODE FOR ELECTRICAL WIRING

- 120/208 V, 60Hz, 3 PHASE, 4 WIRE SYSTEM 1. PHASE A-BLACK B-RED C-BLUE
 - N-WHITE

 $(A)^1$

GROUND-GREEN 2.

FIRE ALARM SYSTEM NOTES

- 1. PROVIDE FIRE ALARM COMPLETION DOCUMENTS AT THE STATE FINAL INSPECTION. THIS ITEM WILL BE REQUIRED BY STATE BUILDING INSPECTOR AT THE TIME OF FINAL INSPECTION (OLD CERTIFICATION FORM).
- 2. ADDITIONS AND ALTERATIONS TO THE FIRE ALARM SYSTEM REQUIRE TESTING, A RECORD OF COMPLETION, AND RECERTIFICATION. ALL FIRE ALARM WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA-72 (2013) 10.4.2, 10.5.2, AND 10.18.1.

3. ALL WORK SHALL BE PERFORMED BY A CERTIFIED FIRE ALARM CONTRACTOR - SEE SPECS.

T6STR PLUG TAIL CONNECTOR. T6STR PLUG TAIL CONNECTOR - MOUNT AT 6" ABOVE COUNTER. MOUR PTIG5362 WITH PT6STR PLUG TAIL CONNECTOR. NOUR PTIG5362 WITH PT6STR PLUG TAIL CONNECTOR.

T6STR PLUG TAIL CONNECTOR. 95-GRY WITH PT6STR PLUG TAIL CONNECTOR. TRA DUTY".

NARROW)

- 1/2" CONDUIT. 2(G) - 3/4" CONDUIT.

LATE

CONNTECTED TO MDF (IN 3/4" CONDUIT WHEN NOT ABOVE CEILING).

COLOR CODE FOR JUNCTION BOXES

NOTE: PAINT ALL JUNCTION BOXES AND COVERS WITH COLORS AS SHOWN BELOW. PAINTING COVERS ONLY IS NOT ACCEPTABLE.

FUNCTION:

LIGHTING POWER FIRE ALARM

<u>COLOR:</u>

BLUE GREEN RED

SHEET TITLE: SCHEDULES, SYMBOLS, AND NOTES

	BRAN	CHES		LUG	TYPE	AREA PANEL		DEMARKO		
OLE	3 POLE	SPARES	SPACES	LOCATION	MOUNTING	LOCATED	CURRENT			
	1-60 3-100 1-125 4-225 1-400		5–3PS	воттом	SURFACE	ELEC 117	38,000	SEE NOTES 1, 2, 3, 4, & 5		
		6-20/1	4–1PS	TOP	SURFACE	ELEC 117	28,000	SEE NOTES 1, 2, & 5		
		6-20/1	3–1PS	TOP	RECESSED	CONC 114	10,000	SEE NOTES 1, 2, 5, & 6		
		6-20/1	3-1PS	TOP	SURFACE	ELEC 117	26,000	SEE NOTES 1, 2, & 5 54 SPACE PANEL		
		6-20/1	12-1PS	воттом	SURFACE	LOCKER 206	14,000	SEE NOTES 1, 2, & 5 54 SPACE PANEL		
-20	1-20	6-20/1	5-1PS	TOP	SURFACE	ELEC 117	20,000	SEE NOTES 1, 2, & 5		
	3-35 1-45 1-60 2-80 1-100	6-20/1	12-1PS	воттом	SURFACE	EXTERIOR	12,000	SEE NOTES 1, 2, & 5 NEMA 3R PANEL		
-20	2-20 3-50	6-20/1	8–1PS	воттом	SURFACE	LOCKER 206	14,000	SEE NOTES 1, 2, & 5		
		6-20/1	36-1PS	BOTTOM	SURFACE	EXTERIOR	10,000	SEE NOTES 1, 2, & 5 NEMA 3R PANEL		

SHEET TITLE: SITE PLAN AND SINGLE LINE DIAGRAM

PROJ. MGR.: LANCE JUNKIN DRAWN: SEC DATE: JUNE 28, 2024 REVISIONS

LOWER LEVEL FLOOR PLAN - LIGHTING

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

<u>NOTES:</u> 1. ALL WIRING SHOWN FEEDING EXTERIOR FIXTURES SHALL BE #10 THHN. 2. ALL WIRING ASSOCIATED WITH LIGHTING CONTROL RELAY PANELS SHALL BE #10 THHN UNLESS OTHERWISE NOTED.

SOFTBALL LOCKER ROOM FLOOR PLAN - LIGHTING SCALE: 1/8" = 1'-0"





<u>NOTES:</u> 1. ALL WIRING SHOWN FEEDING EXTERIOR FIXTURES SHALL BE #10 THHN. 2. ALL WIRING ASSOCIATED WITH LIGHTING CONTROL RELAY PANELS SHALL BE #10 THHN UNLESS OTHERWISE NOTED.













STEWART ENGINEERING ELECTRICAL CONSULTANTS				
P.O. Box 2233 (36202) 300 East 7th Street (36207) Anniston, Alabama Phone: 256/237-0891 Fax No.: 256/237-1077 Email: services@stewartengineering.org	STEWART ENGINEERING			
Engineer:	Project Number:			
J. Lance Junkin, P.E. Alabama Reg. 14817	2468			

AUXILIARY CIRCUIT LEGEND

DATA OUTLET 2A (1 CAT. 6 CABLE PULLED TO JUNCTION BOX AND TERMINATED, LEAVE 12" SLACK ON \triangleleft EACH CABLE)



OUTLET NUMBER: ROOM NUMBER: 2A 108 IDF NUMBER: PATCH PANEL/PORT #: 1/1 MDF

DETAIL - DATA CABLE LABEL

N.T.S. NOTES:

- 1. LABEL ALL CABLES EVERY 50' AND AT EACH END.
- 2. EXACT LABEL METHOD SHALL BE COORDINATED WITH, AND APPROVED BY, ENGINEER PRIOR TO PURCHASE AND INSTALLATION.
- 3. IF ONLY ONE (1) OUTLET IN A ROOM, LABEL OUTLET AS 1A. 4. ROOM NUMBERS ON LABELS SHALL CORRESPOND TO FINAL ROOM NUMBERS IN FIELD (NOT NECESSARILY SAME AS ON CONSTRUCTION DRAWINGS).

WOMEN

LOWER LEVEL FLOOR PLAN - AUXILIARIES

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

- NOTES: 1. ALL COMPUTER OUTLETS SHOWN ON THIS PLAN ARE SERVED FROM MDF.
- 2. COORDINATE FINAL LOCATIONS OF ALL CAMERAS, SMOKE DETECTORS, ETC. TO AVOID CONFLICT WITH LIGHT FIXTURES AND MECHANICAL DIFFUSERS. PLACE THESE DEVICES AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON THESE DRAWINGS. COORDINATE WITH FIRE ALARM SYSTEM MANUFACTURER WITH REGARD TO APPROPRIATE "MINIMUM" DISTANCE FROM DIFFUSERS.
- 3. AT THESE DOOR LOCATIONS, CONTRACTOR SHALL INSTALL EMPTY JUNCTION BOX WITH 3/4" EMPTY CONDUIT WITH PULL STRING TO ABOVE LAY-IN CEILING FOR FUTURE CARD ACCESS SYSTEM. COORDINATE CLOSELY WITH ARCHITECT FOR DOOR HARDWARE CONFIGURATION.
- 4. AT ALL WAP LOCATIONS, CONTRACTOR SHALL LEAVE (1) CAT 6 CABLE TERMINATED WITH A 10' SERVICE LOOP ABOVE CEILING OR AT CEILING LOCATION.



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2A

DATA OUTLET 2A (1 CAT. 6 CABLE PULLED TO JUNCTION BOX AND TERMINATED, LEAVE 12" SLACK ON EACH CABLE) \triangleleft



AUXILIARY CIRCUIT LEGEND

OUTLET NUMBER:	<u>ROOM_NUMBER:</u>
2A	214
IDF NUMBER:	PATCH_PANEL/PORT_#: 1/1

DETAIL - DATA CABLE LABEL

N.T.S.

- NOTES:
- LABEL ALL CABLES EVERY 50' AND AT EACH END.
 EXACT LABEL METHOD SHALL BE COORDINATED WITH, AND APPROVED BY, ENGINEER PRIOR TO PURCHASE AND INSTALLATION.
 IF ONLY ONE (1) OUTLET IN A ROOM, LABEL OUTLET AS 1A.
 ROOM NUMBERS ON LABELS SHALL CORRESPOND TO FINAL ROOM NUMBERS IN FIELD (NOT NECESSARILY SAME AS ON CONSTRUCTION DRAWINGS).

UPPER LEVEL FLOOR PLAN - AUXILIARIES

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

- NOTES: 1. ALL COMPUTER OUTLETS SHOWN ON THIS PLAN ARE SERVED FROM MDF.
- 2. COORDINATE FINAL LOCATIONS OF ALL CAMERAS, SMOKE DETECTORS, ETC. TO AVOID CONFLICT WITH LIGHT FIXTURES AND MECHANICAL DIFFUSERS. PLACE THESE DEVICES AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON THESE DRAWINGS. COORDINATE
- WITH FIRE ALARM SYSTEM MANUFACTURER WITH REGARD TO APPROPRIATE "MINIMUM" DISTANCE FROM DIFFUSERS.
- 3. AT ALL WAP LOCATIONS, CONTRACTOR SHALL LEAVE (1) CAT 6 CABLE TERMINATED WITH A 10' SERVICE LOOP ABOVE CEILING OR AT CEILING LOCATION.



STEWART ENGINEERING ELECTRICAL CONSULTANTS				
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